

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	19.99	-0.42	19.57	<=30	Pass
			1732.6	19.84	-0.42	19.42	<=30	Pass
			1752.6	19.84	-0.42	19.42	<=30	Pass
	HSDPA	Subtest 1	1712.4	19.29	-0.42	18.87	<=30	Pass
		Subtest 2	1712.4	19.30	-0.42	18.88	<=30	Pass
		Subtest 3	1712.4	19.32	-0.42	18.90	<=30	Pass
		Subtest 4	1712.4	19.28	-0.42	18.86	<=30	Pass
		Subtest 1	1732.6	19.21	-0.42	18.79	<=30	Pass
		Subtest 2	1732.6	19.24	-0.42	18.82	<=30	Pass
		Subtest 3	1732.6	19.27	-0.42	18.85	<=30	Pass
		Subtest 4	1732.6	19.22	-0.42	18.80	<=30	Pass
		Subtest 1	1752.6	19.02	-0.42	18.60	<=30	Pass
		Subtest 2	1752.6	18.99	-0.42	18.57	<=30	Pass
		Subtest 3	1752.6	18.97	-0.42	18.55	<=30	Pass
		Subtest 4	1752.6	18.97	-0.42	18.55	<=30	Pass
	HSUPA	Subtest 1	1712.4	17.39	-0.42	16.97	<=30	Pass
		Subtest 2	1712.4	16.86	-0.42	16.44	<=30	Pass
		Subtest 3	1712.4	17.37	-0.42	16.95	<=30	Pass
		Subtest 4	1712.4	17.13	-0.42	16.71	<=30	Pass
		Subtest 5	1712.4	17.39	-0.42	16.97	<=30	Pass
		Subtest 1	1732.6	17.25	-0.42	16.83	<=30	Pass
		Subtest 2	1732.6	17.05	-0.42	16.63	<=30	Pass
		Subtest 3	1732.6	16.71	-0.42	16.29	<=30	Pass
		Subtest 4	1732.6	16.99	-0.42	16.57	<=30	Pass
		Subtest 5	1732.6	16.71	-0.42	16.29	<=30	Pass
		Subtest 1	1752.6	17.08	-0.42	16.66	<=30	Pass
		Subtest 2	1752.6	17.08	-0.42	16.66	<=30	Pass
		Subtest 3	1752.6	17.08	-0.42	16.66	<=30	Pass
		Subtest 4	1752.6	16.63	-0.42	16.21	<=30	Pass
		Subtest 5	1752.6	16.85	-0.42	16.43	<=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	-3.490	-0.0020	-2.5 to 2.5	Pass
			3.85	-1.144	-0.0007	-2.5 to 2.5	Pass
			4.43	1.760	0.0010	-2.5 to 2.5	Pass
		-30	3.85	1.931	0.0011	-2.5 to 2.5	Pass
		-20	3.85	-7.324	-0.0043	-2.5 to 2.5	Pass

	1732.6	-10	3.85	-6.359	-0.0037	-2.5 to 2.5	Pass		
		0	3.85	-9.041	-0.0053	-2.5 to 2.5	Pass		
		10	3.85	5.472	0.0032	-2.5 to 2.5	Pass		
		30	3.85	4.399	0.0026	-2.5 to 2.5	Pass		
		40	3.85	2.081	0.0012	-2.5 to 2.5	Pass		
		50	3.85	6.280	0.0037	-2.5 to 2.5	Pass		
		20	3.27	1.373	0.0008	-2.5 to 2.5	Pass		
			3.85	-5.665	-0.0033	-2.5 to 2.5	Pass		
			4.43	-1.895	-0.0011	-2.5 to 2.5	Pass		
			-30	3.85	6.237	0.0036	-2.5 to 2.5	Pass	
			-20	3.85	0.501	0.0003	-2.5 to 2.5	Pass	
			-10	3.85	0.222	0.0001	-2.5 to 2.5	Pass	
			0	3.85	1.152	0.0007	-2.5 to 2.5	Pass	
			10	3.85	-7.389	-0.0043	-2.5 to 2.5	Pass	
			30	3.85	-2.775	-0.0016	-2.5 to 2.5	Pass	
	40		3.85	-5.779	-0.0033	-2.5 to 2.5	Pass		
	50	3.85	1.302	0.0008	-2.5 to 2.5	Pass			
	1752.6	20	3.27	5.150	0.0029	-2.5 to 2.5	Pass		
			3.85	-0.207	-0.0001	-2.5 to 2.5	Pass		
			4.43	-5.300	-0.0030	-2.5 to 2.5	Pass		
		-30	3.85	-2.296	-0.0013	-2.5 to 2.5	Pass		
		-20	3.85	5.214	0.0030	-2.5 to 2.5	Pass		
		-10	3.85	3.641	0.0021	-2.5 to 2.5	Pass		
		0	3.85	-0.994	-0.0006	-2.5 to 2.5	Pass		
		10	3.85	2.375	0.0014	-2.5 to 2.5	Pass		
		30	3.85	2.861	0.0016	-2.5 to 2.5	Pass		
		40	3.85	-2.160	-0.0012	-2.5 to 2.5	Pass		
		50	3.85	-2.918	-0.0017	-2.5 to 2.5	Pass		
		HSDPA	1712.4	20	3.27	-3.877	-0.0023	-2.5 to 2.5	Pass
					3.85	11.344	0.0066	-2.5 to 2.5	Pass
4.43					11.823	0.0069	-2.5 to 2.5	Pass	
-30				3.85	12.567	0.0073	-2.5 to 2.5	Pass	
-20	3.85			12.639	0.0074	-2.5 to 2.5	Pass		
-10	3.85			13.039	0.0076	-2.5 to 2.5	Pass		
0	3.85			10.378	0.0061	-2.5 to 2.5	Pass		
10	3.85			8.433	0.0049	-2.5 to 2.5	Pass		
30	3.85			9.048	0.0053	-2.5 to 2.5	Pass		
40	3.85			11.194	0.0065	-2.5 to 2.5	Pass		
50	3.85			6.294	0.0037	-2.5 to 2.5	Pass		
1732.6	20			3.27	8.326	0.0048	-2.5 to 2.5	Pass	
			3.85	8.740	0.0050	-2.5 to 2.5	Pass		
			4.43	3.412	0.0020	-2.5 to 2.5	Pass		
	-30		3.85	13.533	0.0078	-2.5 to 2.5	Pass		
	-20		3.85	13.039	0.0075	-2.5 to 2.5	Pass		
	-10		3.85	13.726	0.0079	-2.5 to 2.5	Pass		
	0		3.85	0.129	0.0001	-2.5 to 2.5	Pass		
	10		3.85	5.715	0.0033	-2.5 to 2.5	Pass		
	30		3.85	-0.572	-0.0003	-2.5 to 2.5	Pass		
	40		3.85	3.898	0.0022	-2.5 to 2.5	Pass		
50	3.85		3.741	0.0022	-2.5 to 2.5	Pass			
1752.6	20		3.27	1.824	0.0010	-2.5 to 2.5	Pass		
			3.85	3.691	0.0021	-2.5 to 2.5	Pass		
			4.43	5.000	0.0029	-2.5 to 2.5	Pass		
	-30		3.85	9.556	0.0055	-2.5 to 2.5	Pass		
	-20		3.85	14.062	0.0080	-2.5 to 2.5	Pass		
	-10		3.85	8.326	0.0048	-2.5 to 2.5	Pass		
	0		3.85	10.049	0.0057	-2.5 to 2.5	Pass		
	10		3.85	7.560	0.0043	-2.5 to 2.5	Pass		
30	3.85	-1.194	-0.0007	-2.5 to 2.5	Pass				

HSUPA	1712.4	40	3.85	3.476	0.0020	-2.5 to 2.5	Pass
		50	3.85	1.588	0.0009	-2.5 to 2.5	Pass
		20	3.27	0.587	0.0003	-2.5 to 2.5	Pass
			3.85	-0.365	-0.0002	-2.5 to 2.5	Pass
			4.43	0.222	0.0001	-2.5 to 2.5	Pass
		-30	3.85	-1.688	-0.0010	-2.5 to 2.5	Pass
		-20	3.85	-0.143	-0.0001	-2.5 to 2.5	Pass
		-10	3.85	-4.628	-0.0027	-2.5 to 2.5	Pass
		0	3.85	-6.709	-0.0039	-2.5 to 2.5	Pass
		10	3.85	-0.508	-0.0003	-2.5 to 2.5	Pass
		30	3.85	-0.179	-0.0001	-2.5 to 2.5	Pass
		40	3.85	-2.553	-0.0015	-2.5 to 2.5	Pass
		50	3.85	-3.412	-0.0020	-2.5 to 2.5	Pass
	1732.6	20	3.27	-0.751	-0.0004	-2.5 to 2.5	Pass
			3.85	-1.223	-0.0007	-2.5 to 2.5	Pass
			4.43	1.931	0.0011	-2.5 to 2.5	Pass
		-30	3.85	2.303	0.0013	-2.5 to 2.5	Pass
		-20	3.85	-1.059	-0.0006	-2.5 to 2.5	Pass
		-10	3.85	0.257	0.0001	-2.5 to 2.5	Pass
		0	3.85	-0.629	-0.0004	-2.5 to 2.5	Pass
		10	3.85	-6.652	-0.0038	-2.5 to 2.5	Pass
		30	3.85	-5.708	-0.0033	-2.5 to 2.5	Pass
		40	3.85	-0.687	-0.0004	-2.5 to 2.5	Pass
		50	3.85	-0.358	-0.0002	-2.5 to 2.5	Pass
	1752.6	20	3.27	-0.536	-0.0003	-2.5 to 2.5	Pass
			3.85	-13.897	-0.0079	-2.5 to 2.5	Pass
			4.43	-7.546	-0.0043	-2.5 to 2.5	Pass
		-30	3.85	-9.692	-0.0055	-2.5 to 2.5	Pass
		-20	3.85	-4.735	-0.0027	-2.5 to 2.5	Pass
		-10	3.85	-1.109	-0.0006	-2.5 to 2.5	Pass
		0	3.85	-14.055	-0.0080	-2.5 to 2.5	Pass
		10	3.85	-8.304	-0.0047	-2.5 to 2.5	Pass
		30	3.85	-11.437	-0.0065	-2.5 to 2.5	Pass
		40	3.85	-8.984	-0.0051	-2.5 to 2.5	Pass
		50	3.85	-14.749	-0.0084	-2.5 to 2.5	Pass

3. Modulation Characteristics

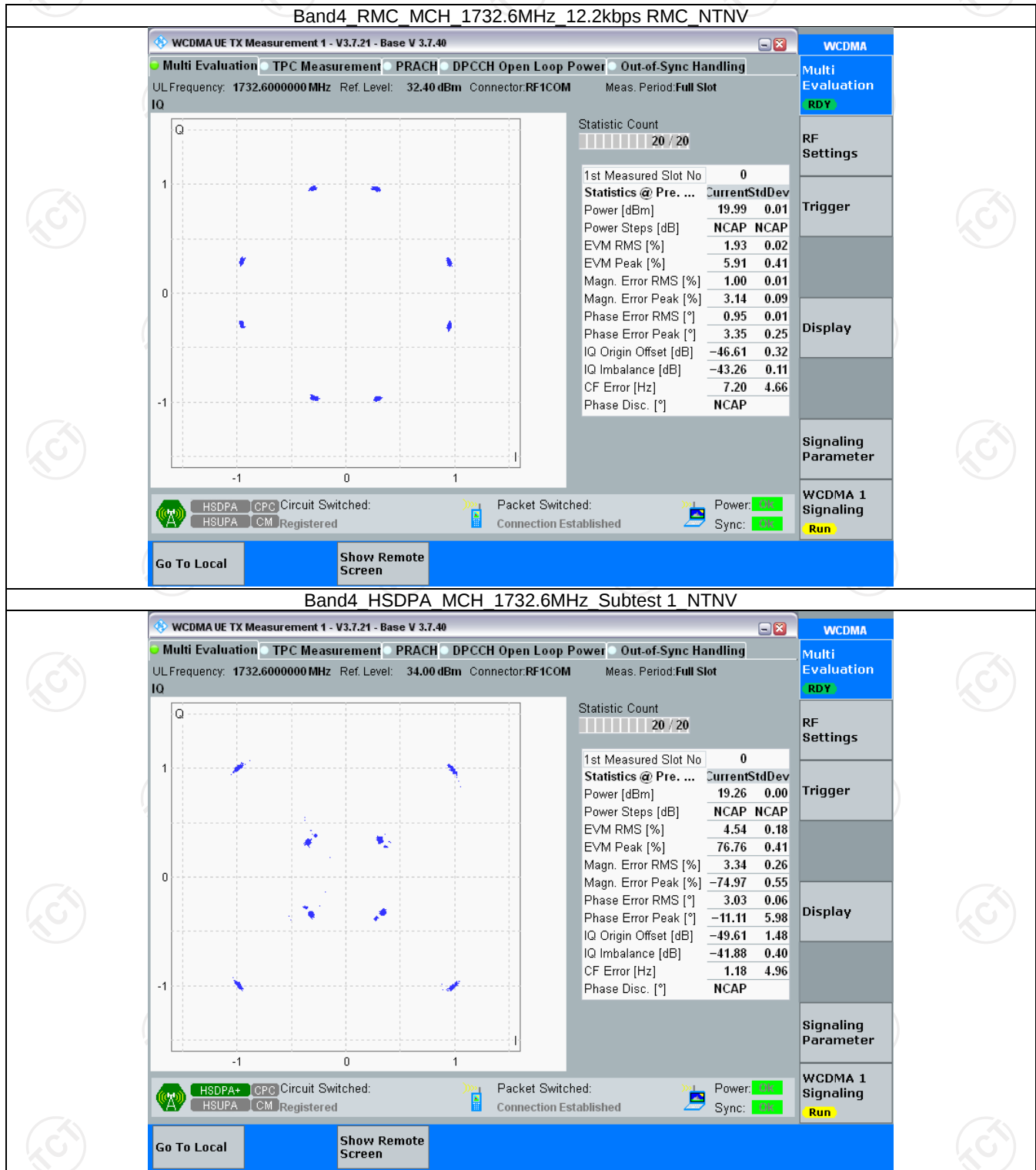
3.1 Test Result

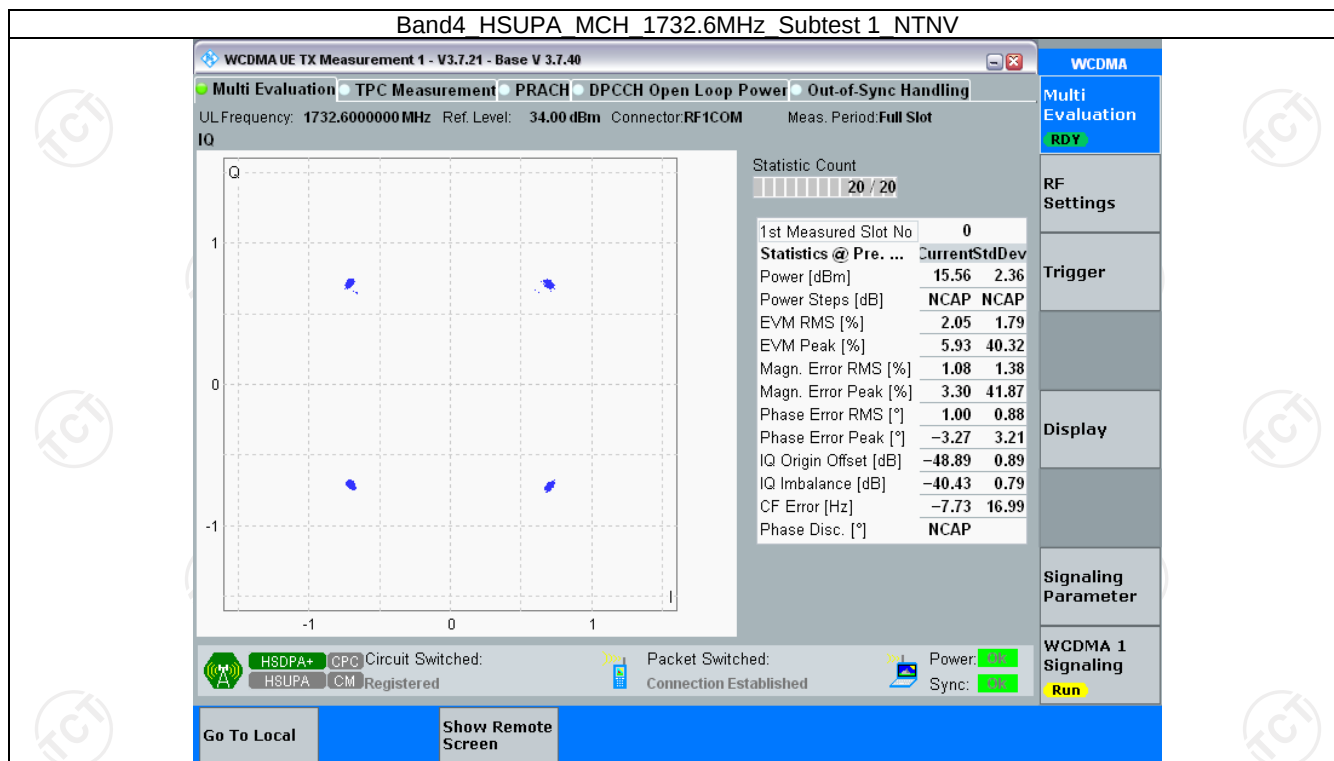
3.1.1 Band4

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

3.2 Test Graph

3.2.1 Band4





4. 99% & 26dB Bandwidth

4.1 Test Result

4.1.1 Band4_OBW

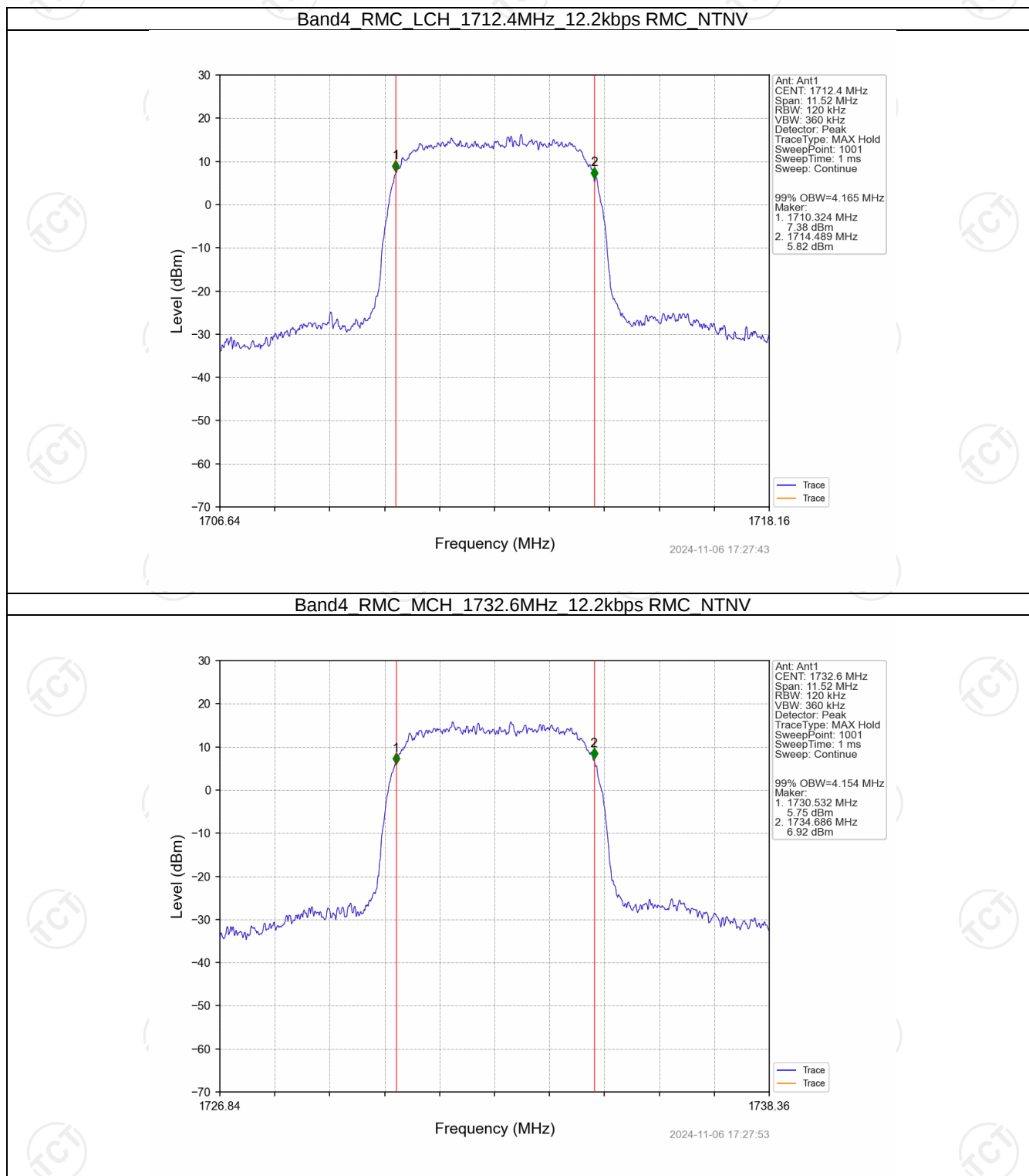
Band: 4						
ENV	Mode		Frequency (MHz)	99% Occupied Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1712.4	4.165	/	Pass
			1732.6	4.154	/	Pass
			1752.6	4.154	/	Pass
	HSDPA	Subtest 1	1712.4	4.165	/	Pass
			1732.6	4.178	/	Pass
			1752.6	4.170	/	Pass
	HSUPA	Subtest 1	1712.4	4.160	/	Pass
			1732.6	4.177	/	Pass
			1752.6	4.165	/	Pass

4.1.2 Band4_XDB

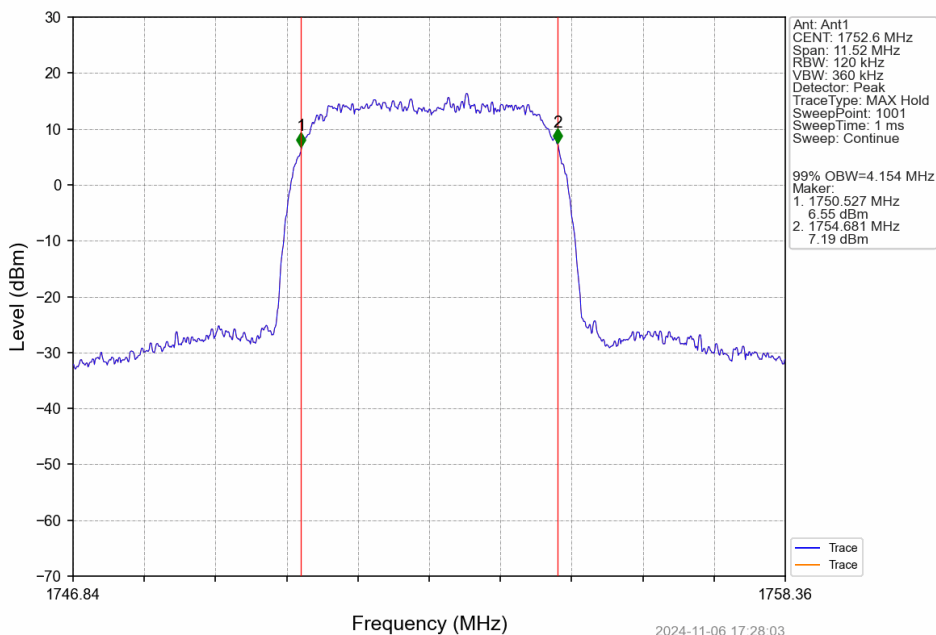
Band: 4						
ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1712.4	4.714	/	Pass
			1732.6	4.727	/	Pass
			1752.6	4.709	/	Pass
	HSDPA	Subtest 1	1712.4	4.715	/	Pass
			1732.6	4.737	/	Pass
			1752.6	4.711	/	Pass
	HSUPA	Subtest 1	1712.4	4.723	/	Pass
			1732.6	4.709	/	Pass
			1752.6	4.698	/	Pass

4.2 Test Graph

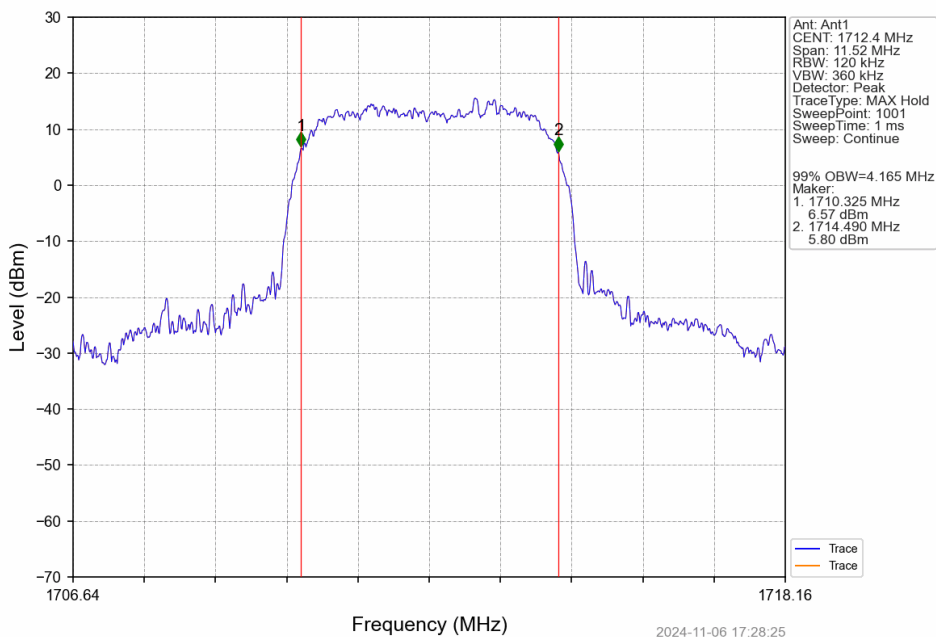
4.2.1 Band4_OBW



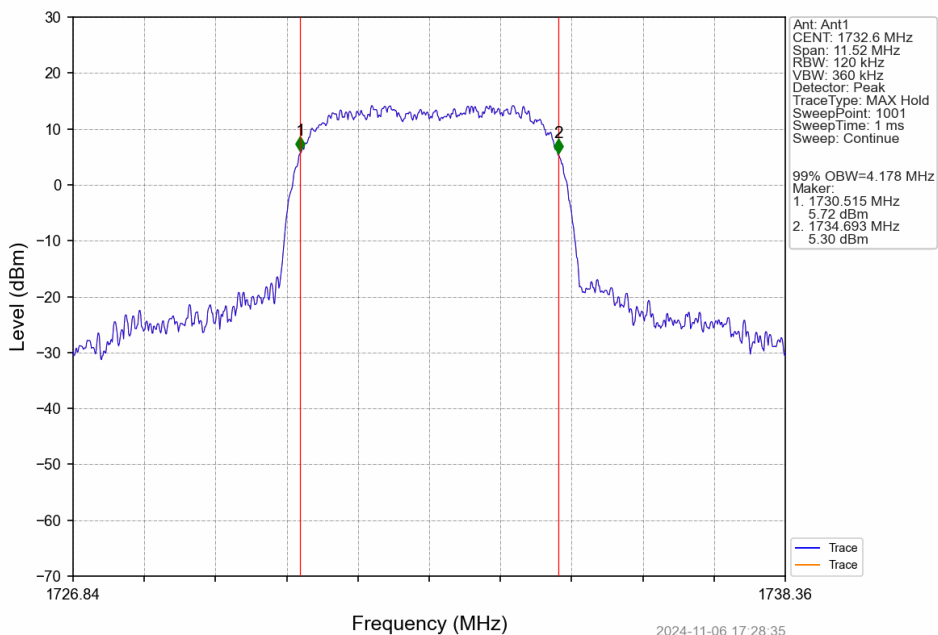
Band4 RMC HCH 1752.6MHz 12.2kbps RMC NTN



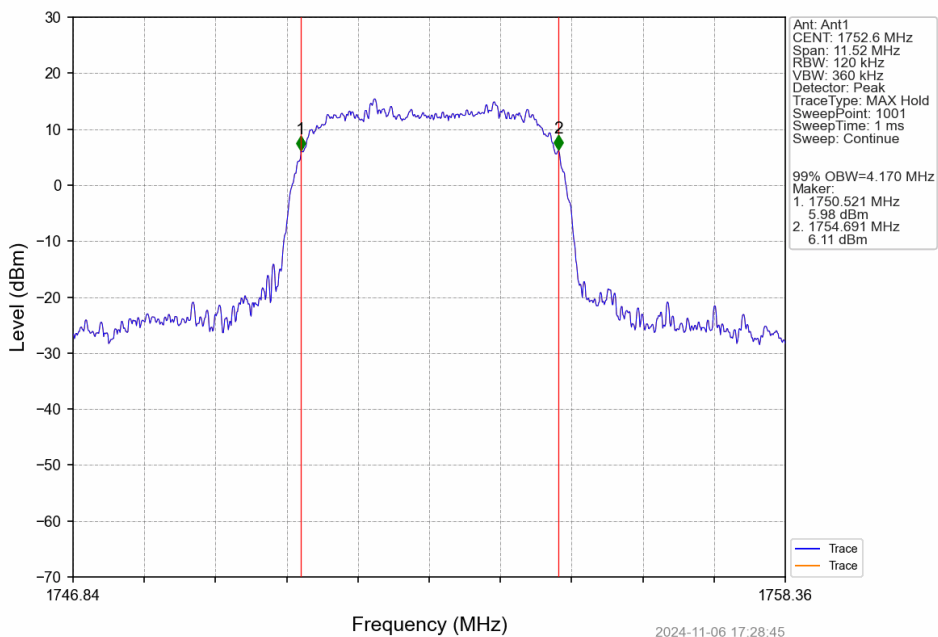
Band4_HSDPA_LCH_1712.4MHz_Subtest 1_NTN



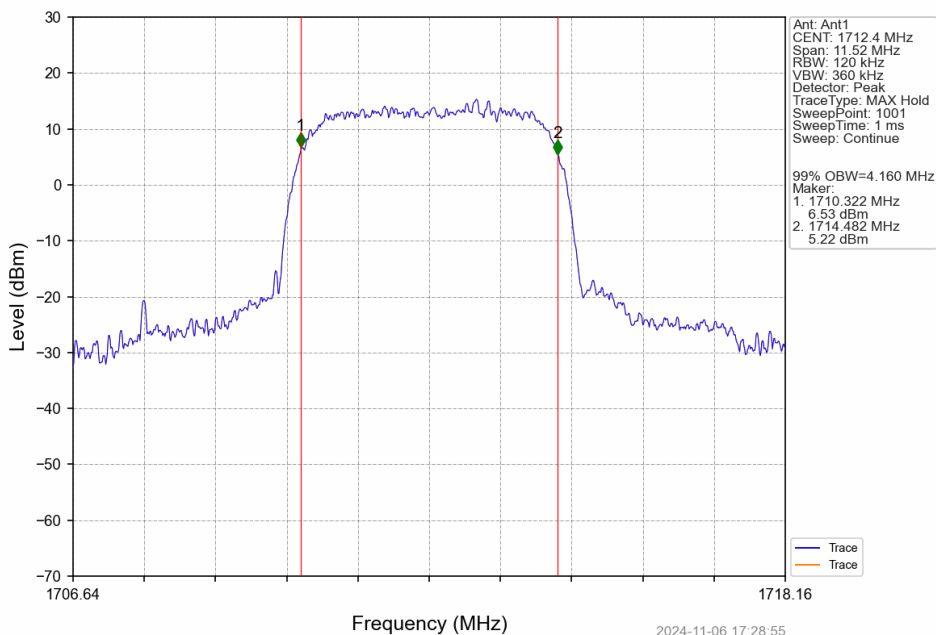
Band4 HSDPA MCH 1732.6MHz Subtest 1 NTNV



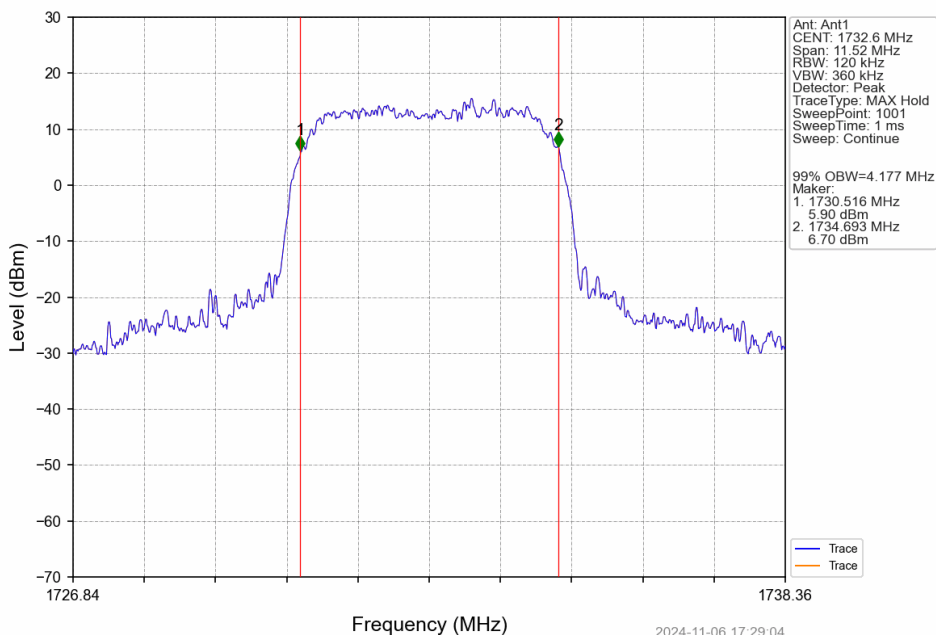
Band4_HSDPA_HCH_1752.6MHz Subtest 1_NTNV



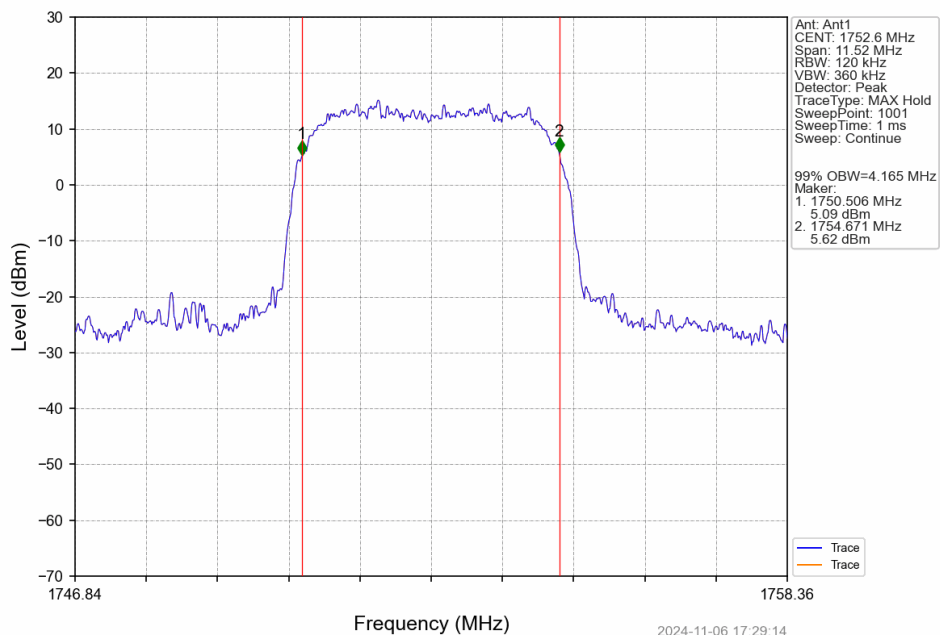
Band4 HSUPA LCH 1712.4MHz Subtest 1 NTN



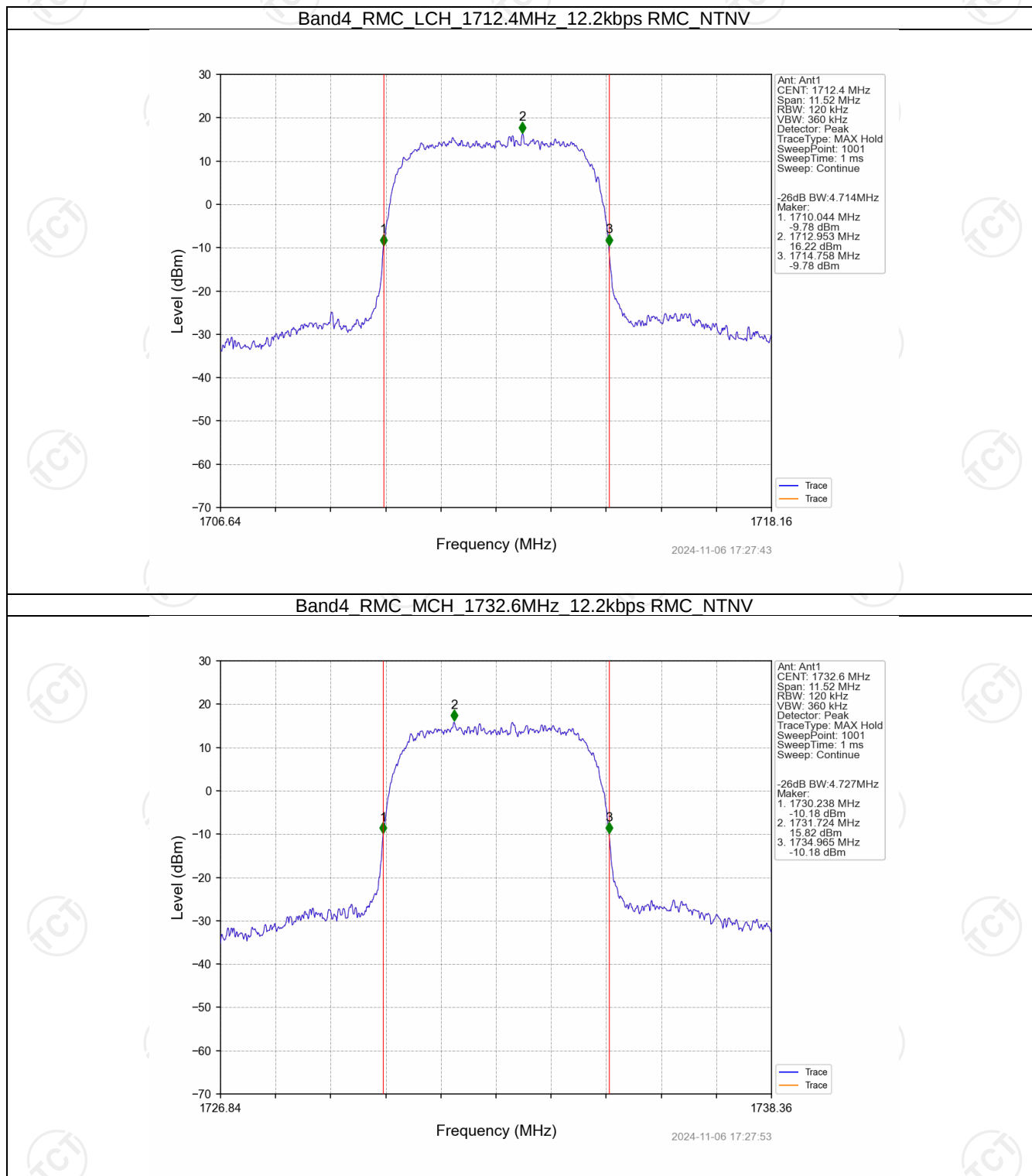
Band4 HSUPA MCH 1732.6MHz Subtest 1 NTN



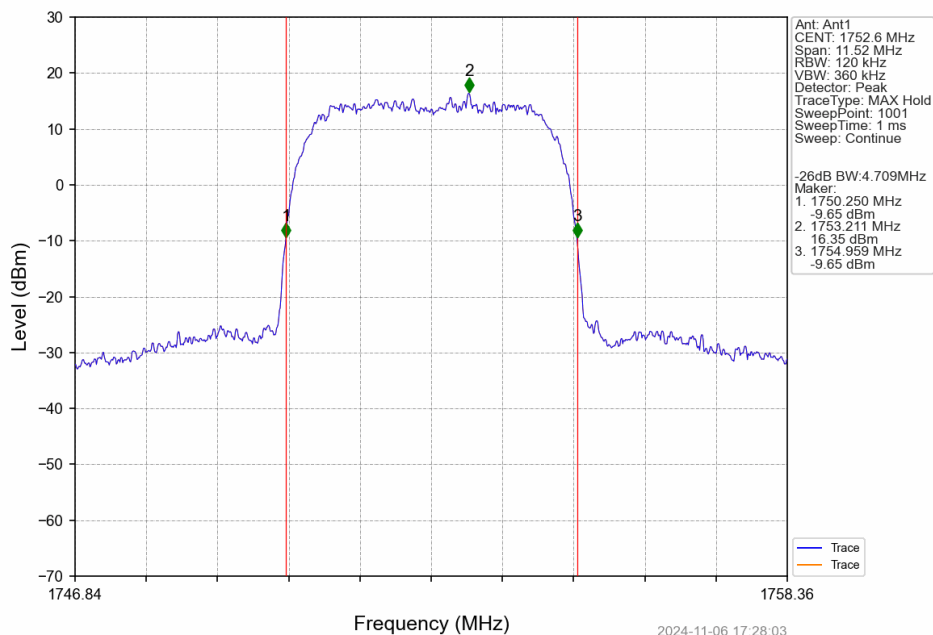
Band4 HSUPA HCH 1752.6MHz Subtest 1 NTNV



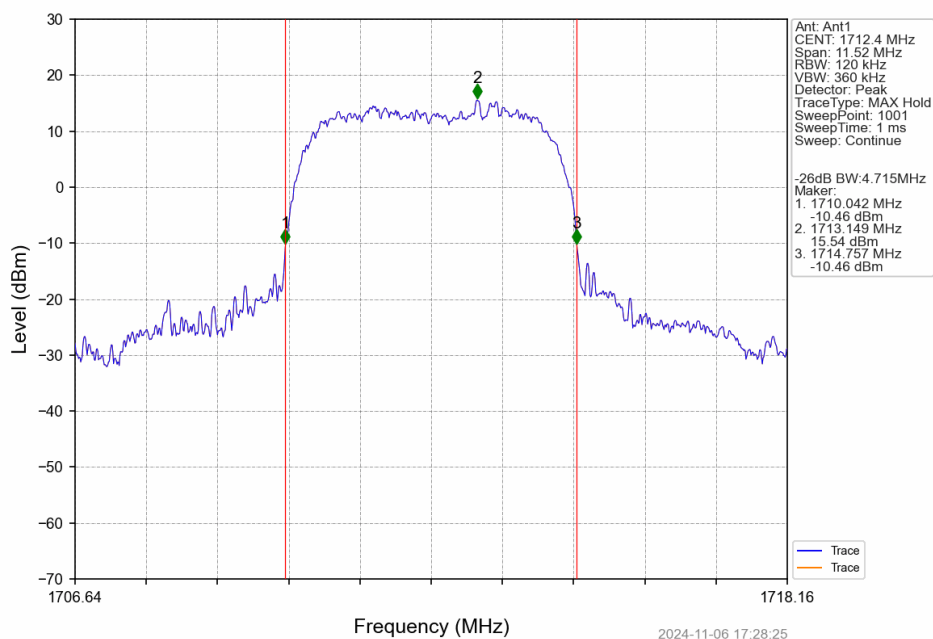
4.2.2 Band4_XDB



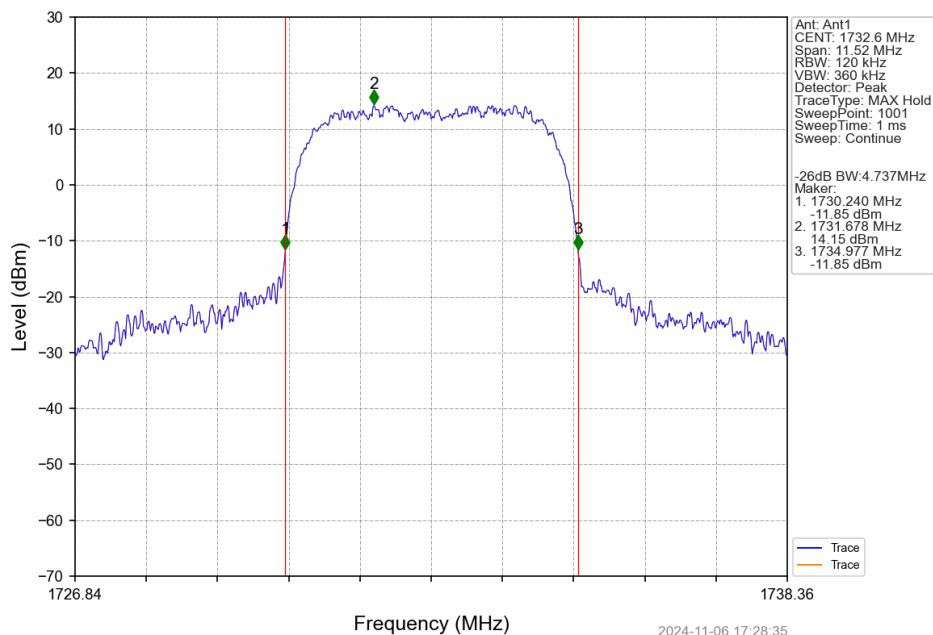
Band4 RMC HCH 1752.6MHz 12.2kbps RMC NTN



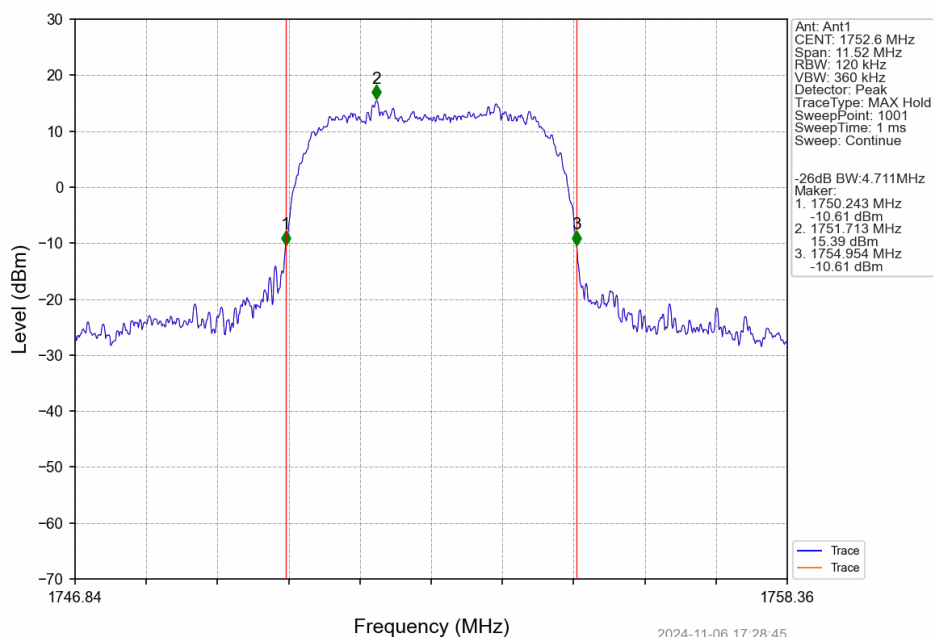
Band4_HSDPA_LCH_1712.4MHz_Subtest 1_NTN



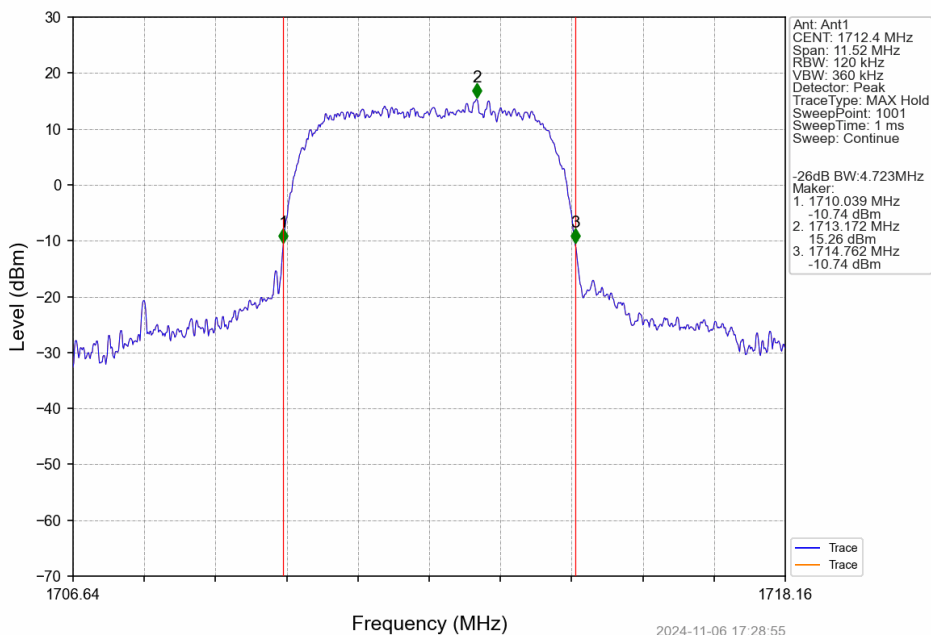
Band4 HSDPA MCH 1732.6MHz Subtest 1 NTN



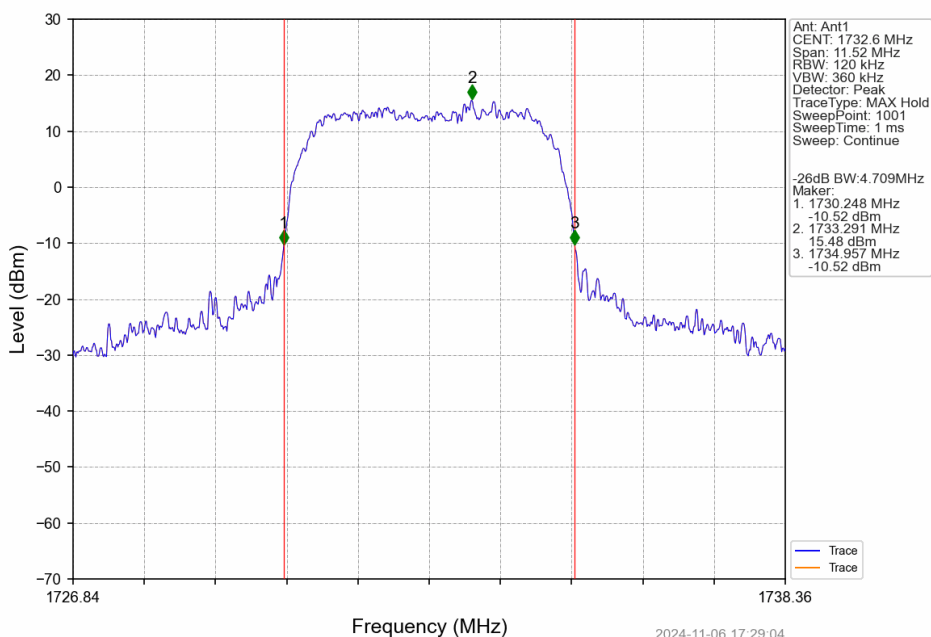
Band4 HSDPA HCH 1752.6MHz Subtest 1 NTN



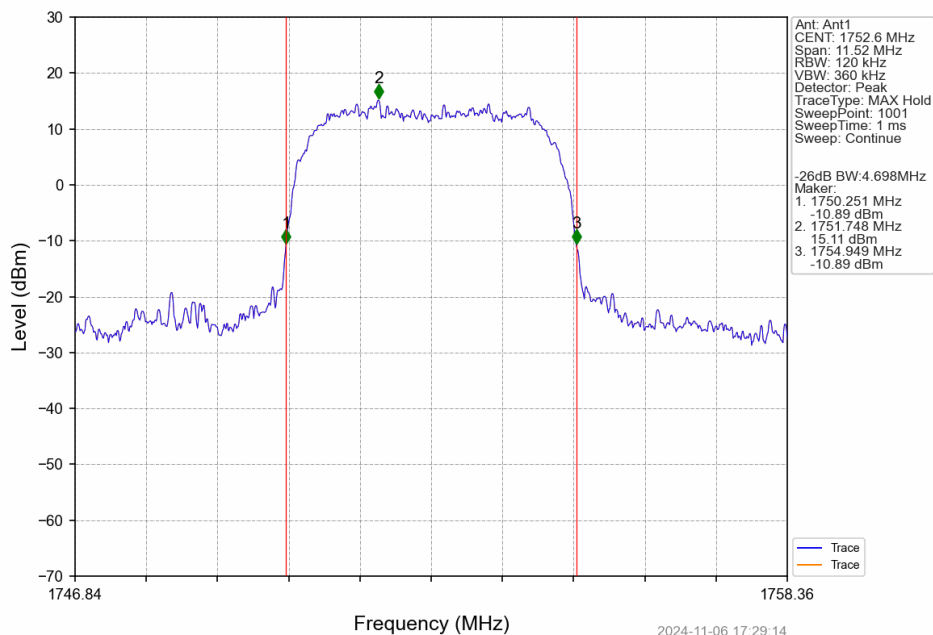
Band4 HSUPA LCH 1712.4MHz Subtest 1 NTN



Band4 HSUPA MCH 1732.6MHz Subtest 1 NTN



Band4 HSUPA HCH 1752.6MHz Subtest 1 NTNV



5. Peak-Average Ratio

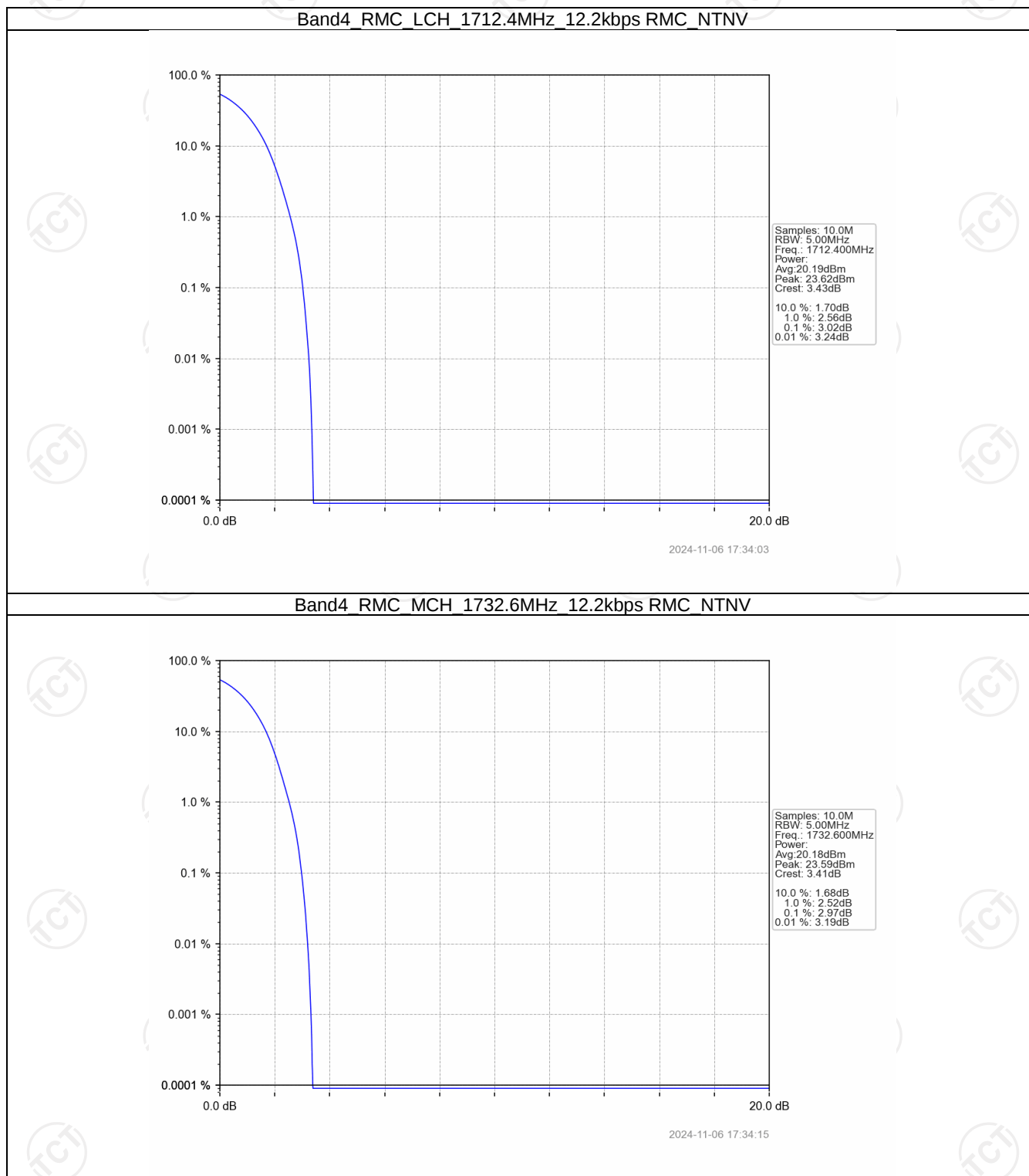
5.1 Test Result

5.1.1 Band4

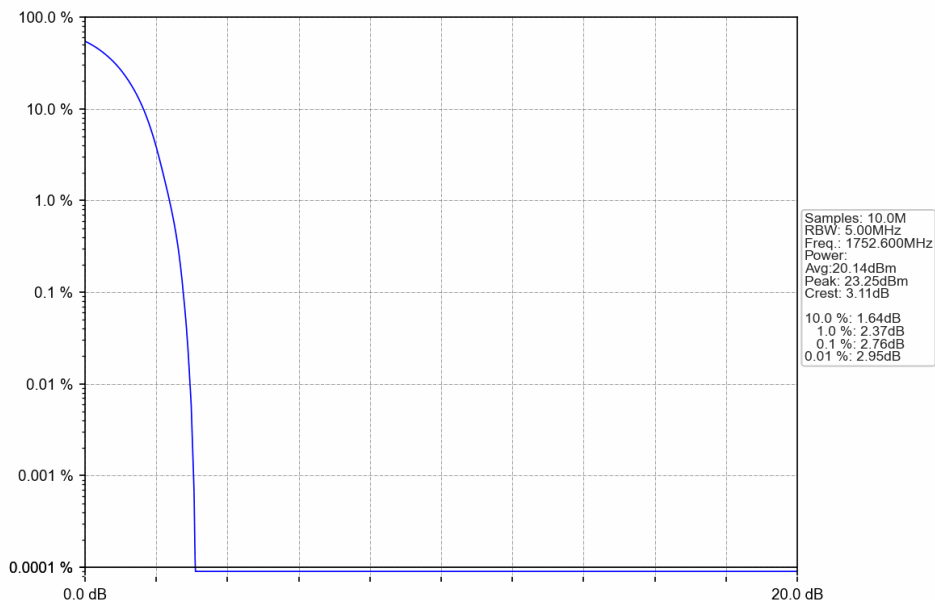
Band: 4						
ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1712.4	3.02	<=13	Pass
			1732.6	2.97	<=13	Pass
			1752.6	2.76	<=13	Pass
	HSDPA	Subtest 1	1712.4	5.82	<=13	Pass
			1732.6	5.69	<=13	Pass
			1752.6	5.37	<=13	Pass
	HSUPA	Subtest 1	1712.4	5.79	<=13	Pass
			1732.6	5.62	<=13	Pass
			1752.6	5.64	<=13	Pass

5.2 Test Graph

5.2.1 Band4

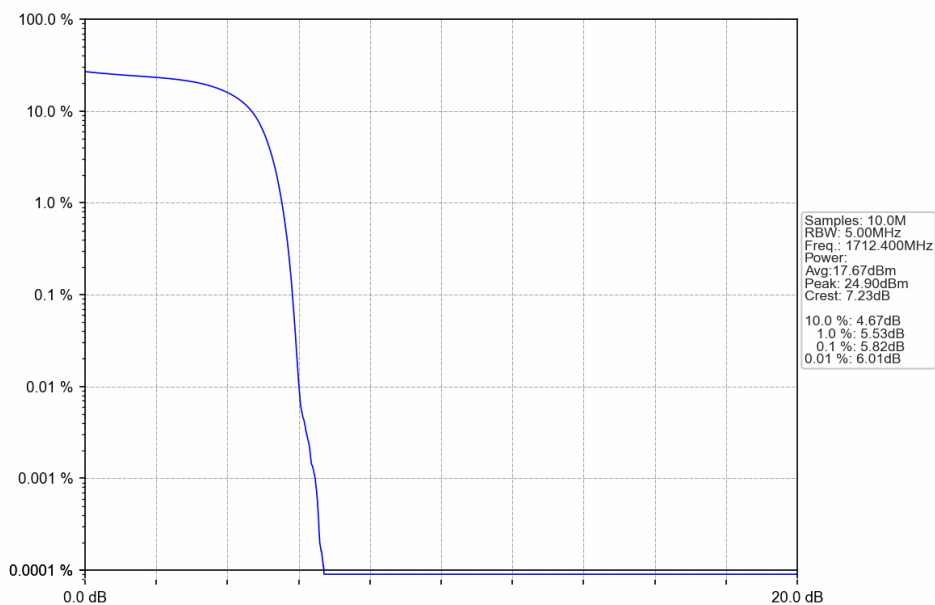


Band4 RMC HCH 1752.6MHz 12.2kbps RMC NTN



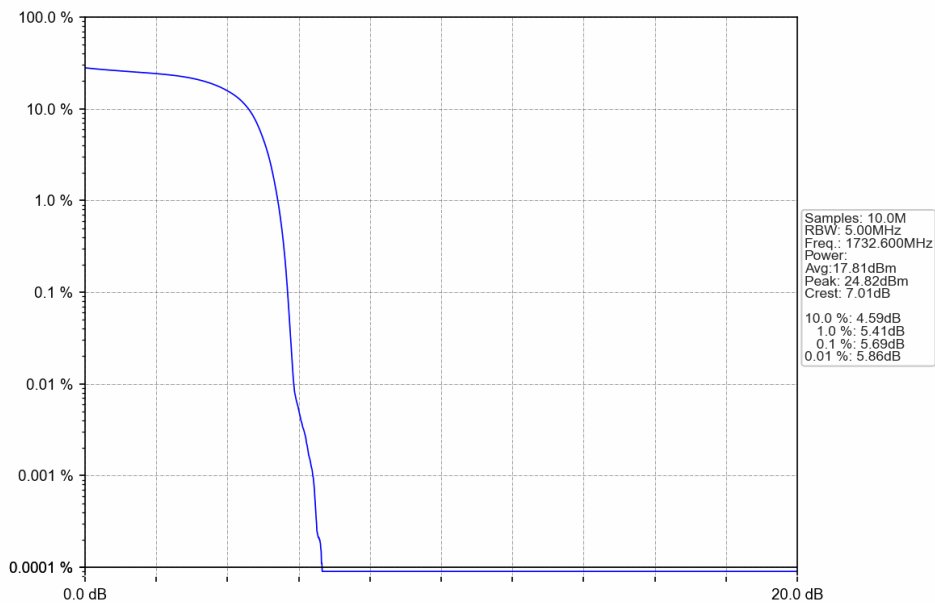
2024-11-06 17:34:26

Band4_HSDPA_LCH_1712.4MHz_Subtest 1_NTN



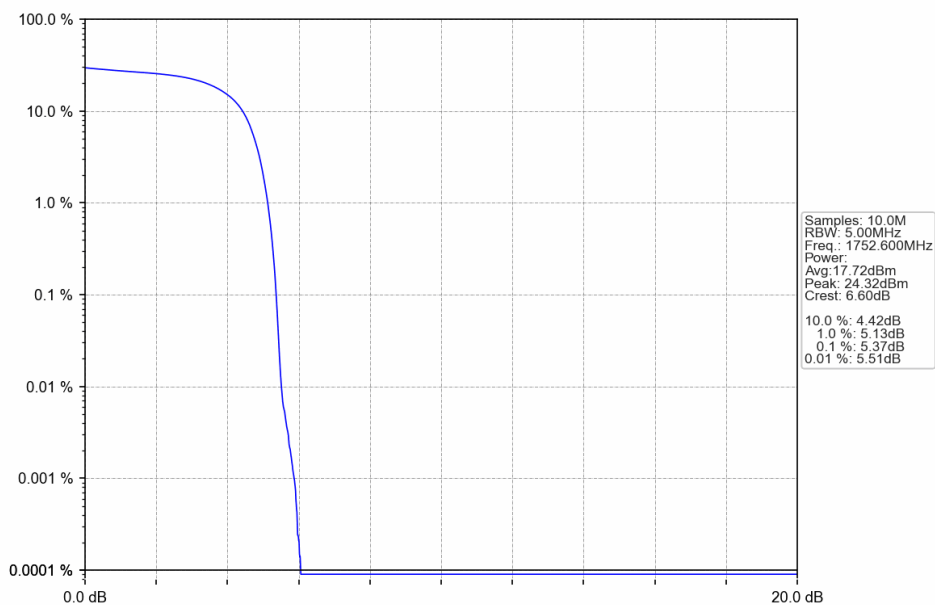
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Band4 HSDPA MCH 1732.6MHz Subtest 1 NTNV



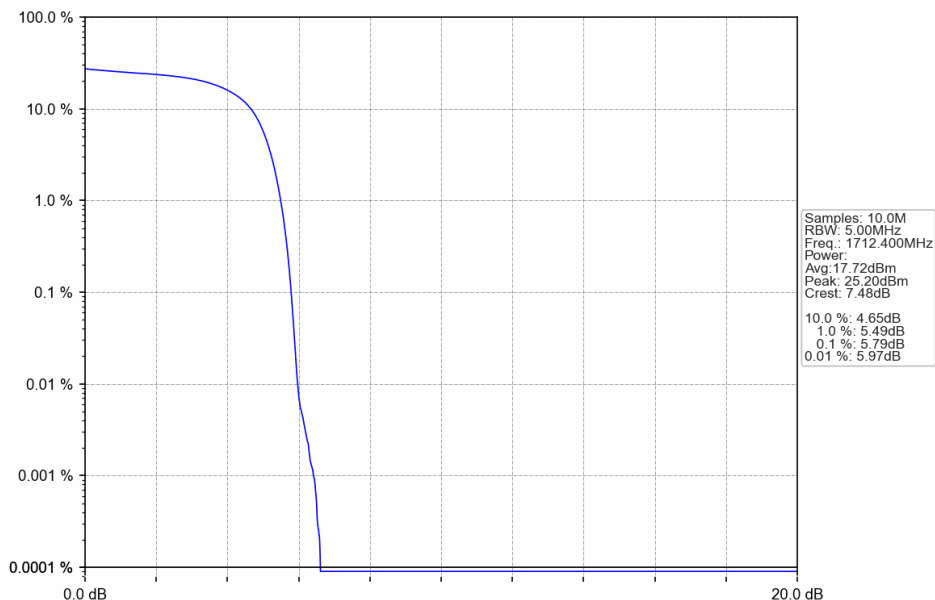
2024-11-06 17:35:02

Band4 HSDPA HCH 1752.6MHz Subtest 1 NTNV



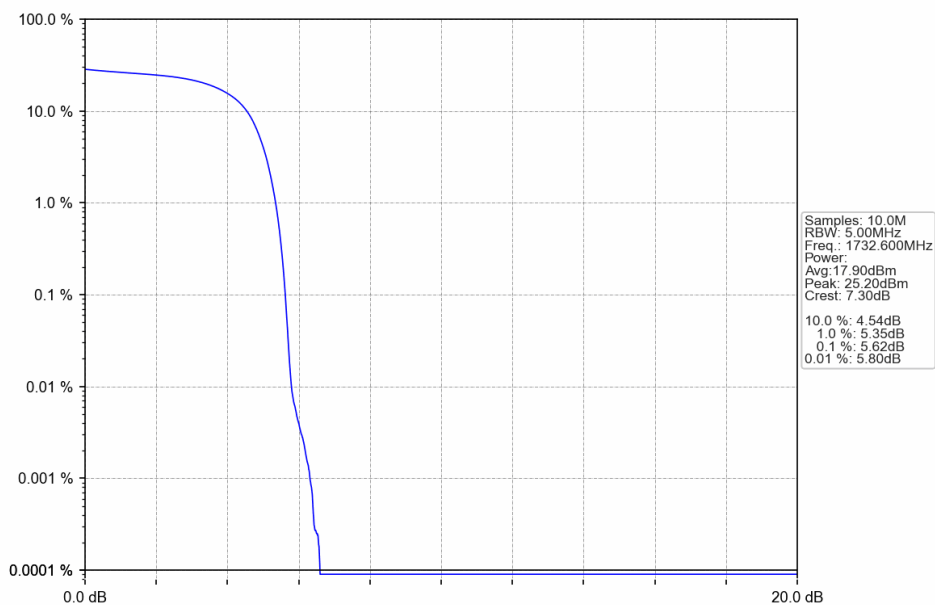
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Band4 HSUPA LCH 1712.4MHz Subtest 1 NTN



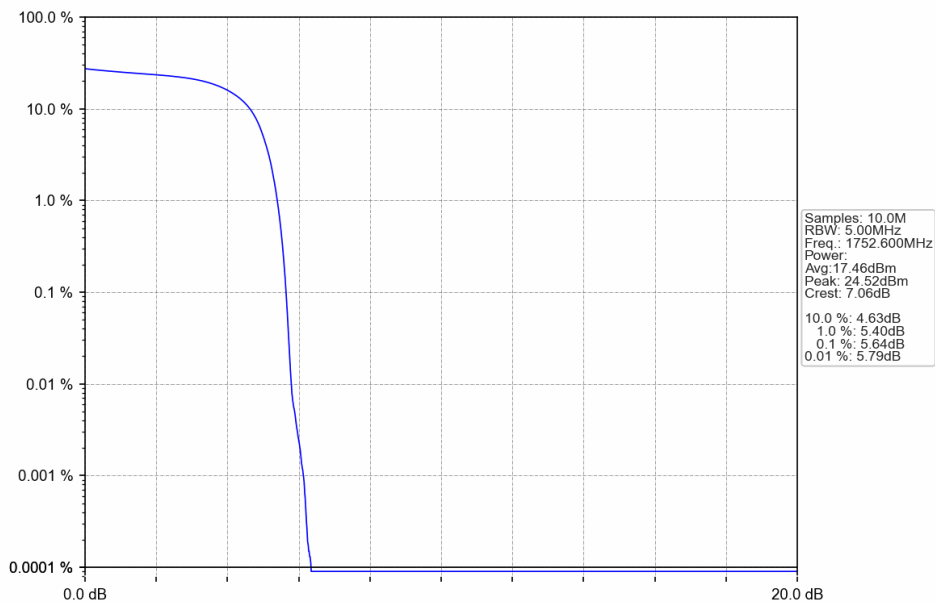
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Band4 HSUPA MCH 1732.6MHz Subtest 1 NTN



2024-11-06 17:35:40

Band4 HSUPA HCH 1752.6MHz Subtest 1 NTNV



2024-11-06 17:35:53

6. Spurious Emission

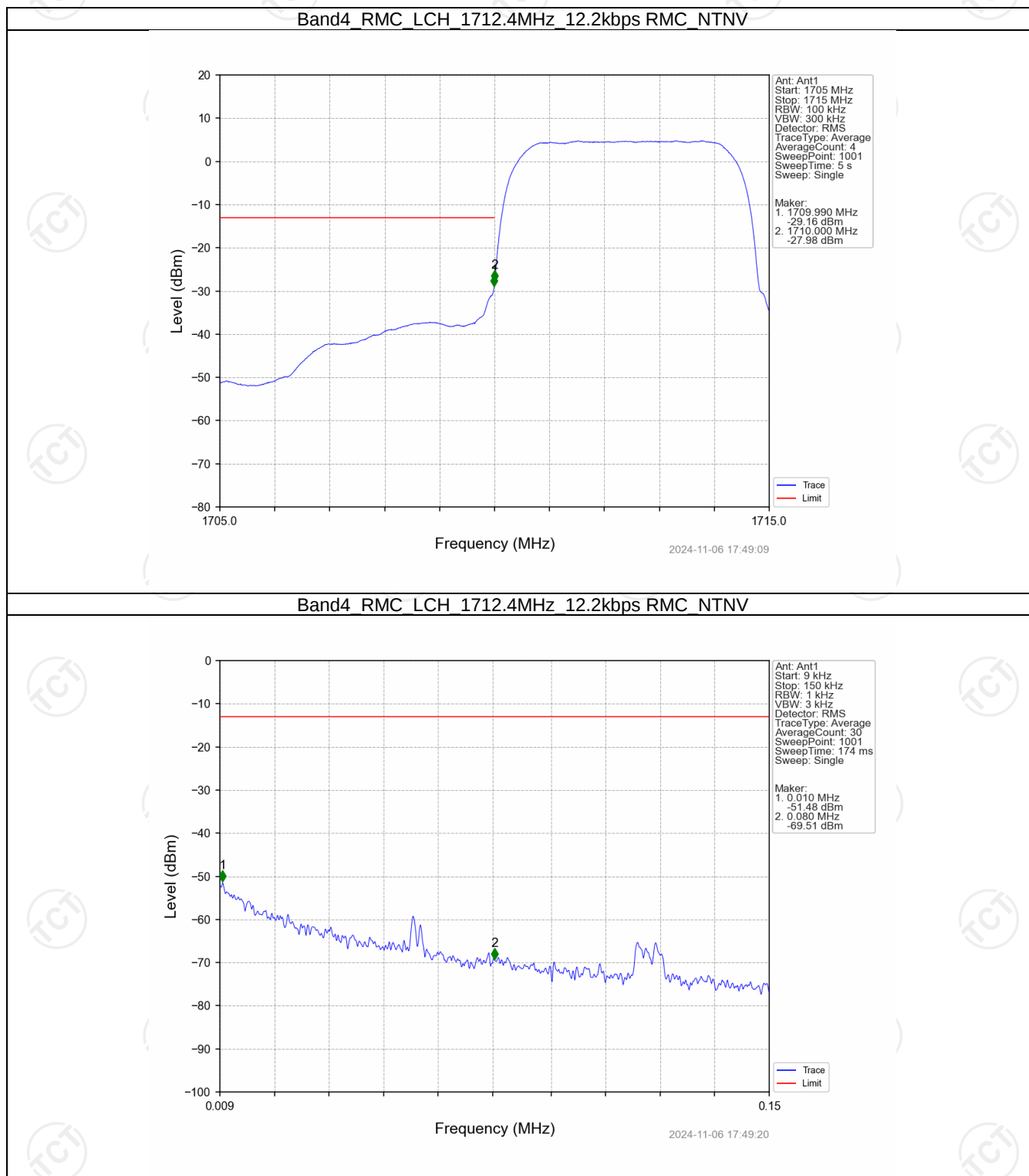
6.1 Test Result

6.1.1 Band4

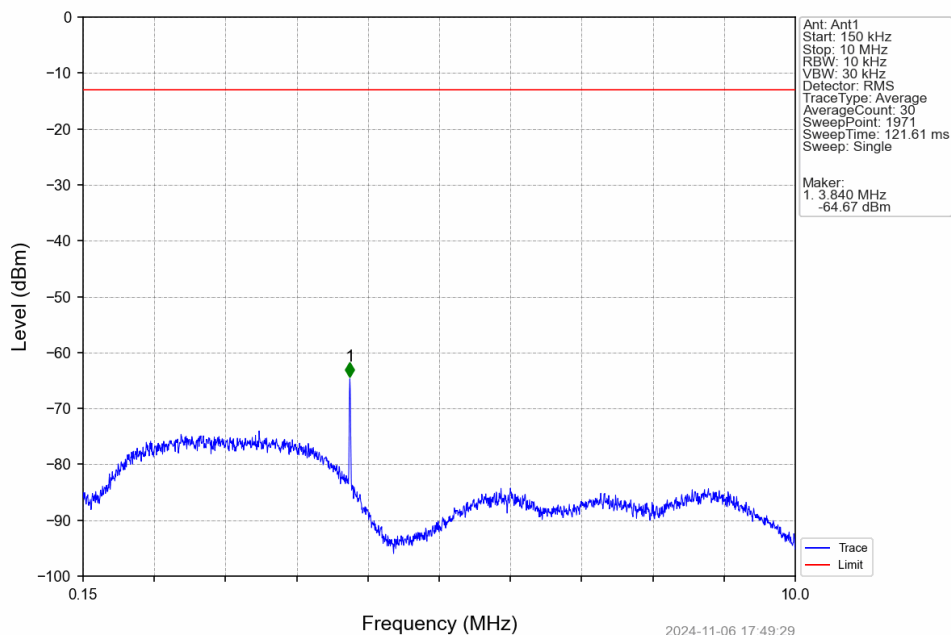
Band: 4						
ENV	Mode		Frequency (MHz)	Spurious Emission		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1712.4	Refer To Test Graph	Pass	
			1732.6	Refer To Test Graph	Pass	
			1752.6	Refer To Test Graph	Pass	
	HSDPA	Subtest 1	1712.4	Refer To Test Graph	Pass	
			1732.6	Refer To Test Graph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

6.2 Test Graph

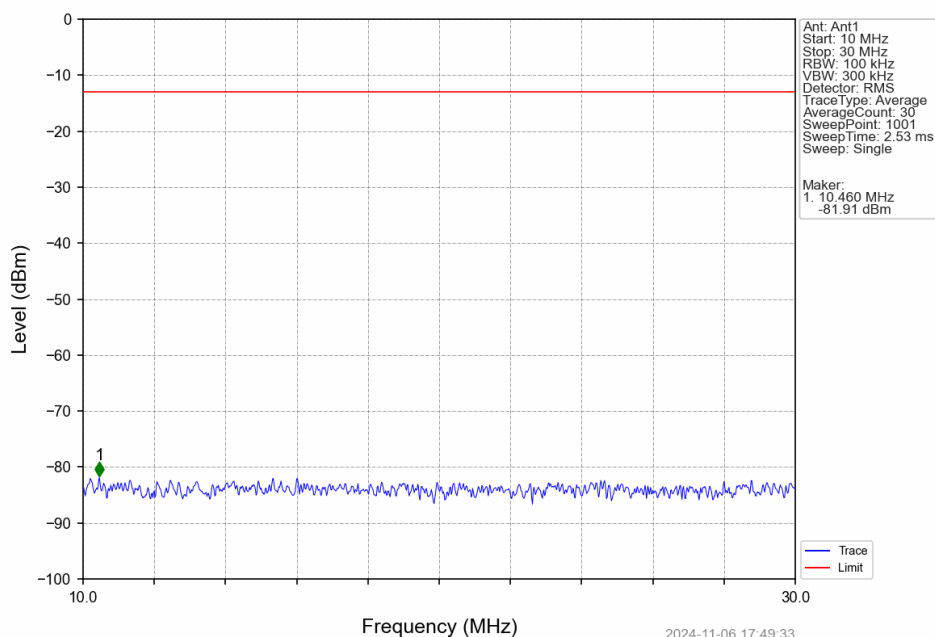
6.2.1 Band4



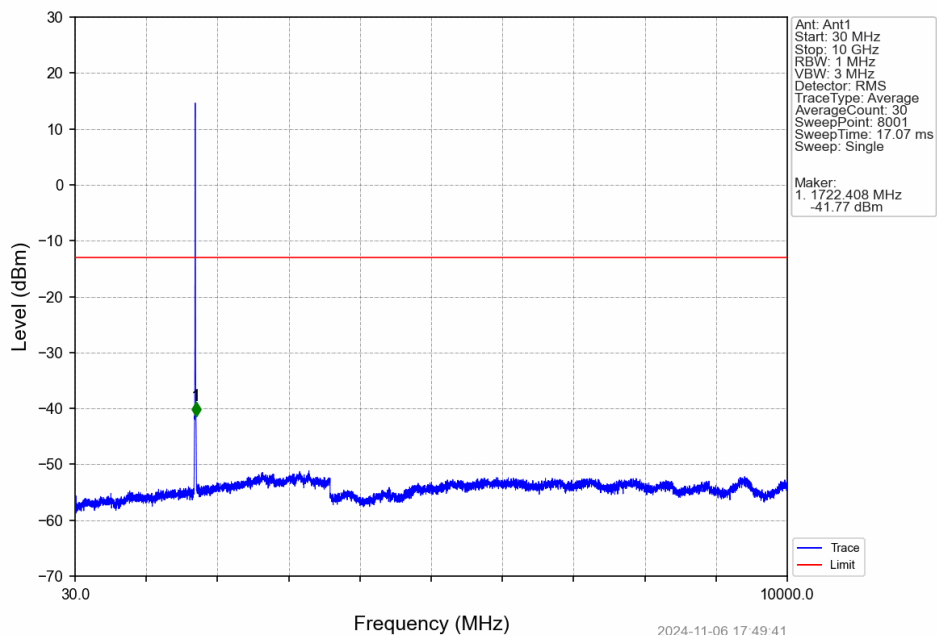
Band4_RMC_LCH_1712.4MHz_12.2kbps_RMC_NTNV



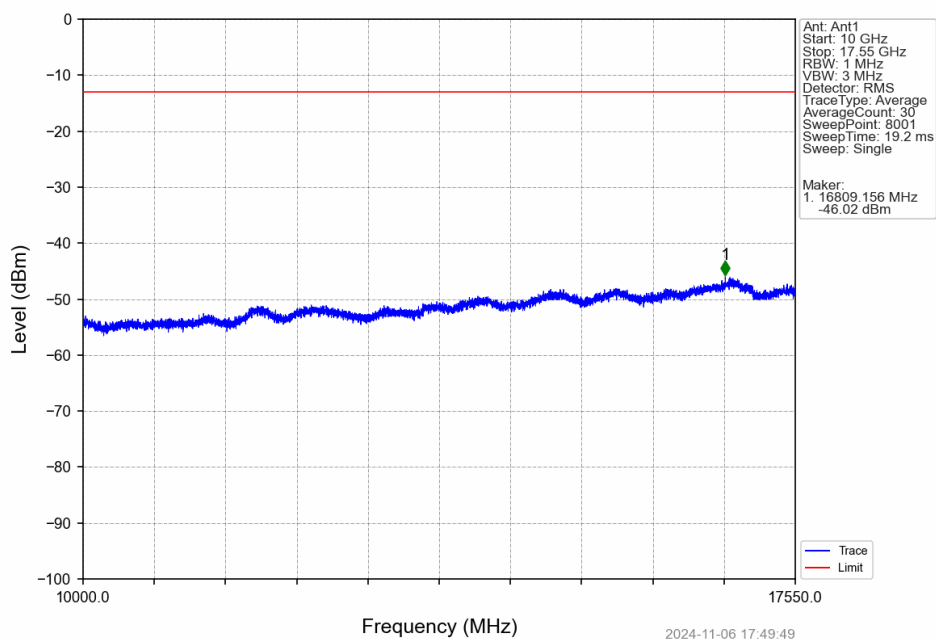
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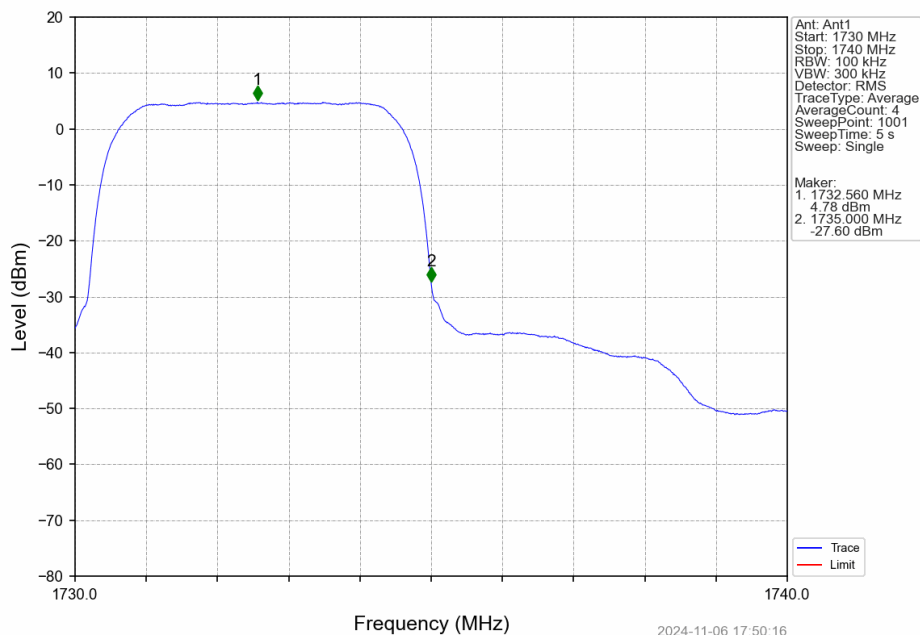
Band4 RMC LCH 1712.4MHz 12.2kbps RMC NTN



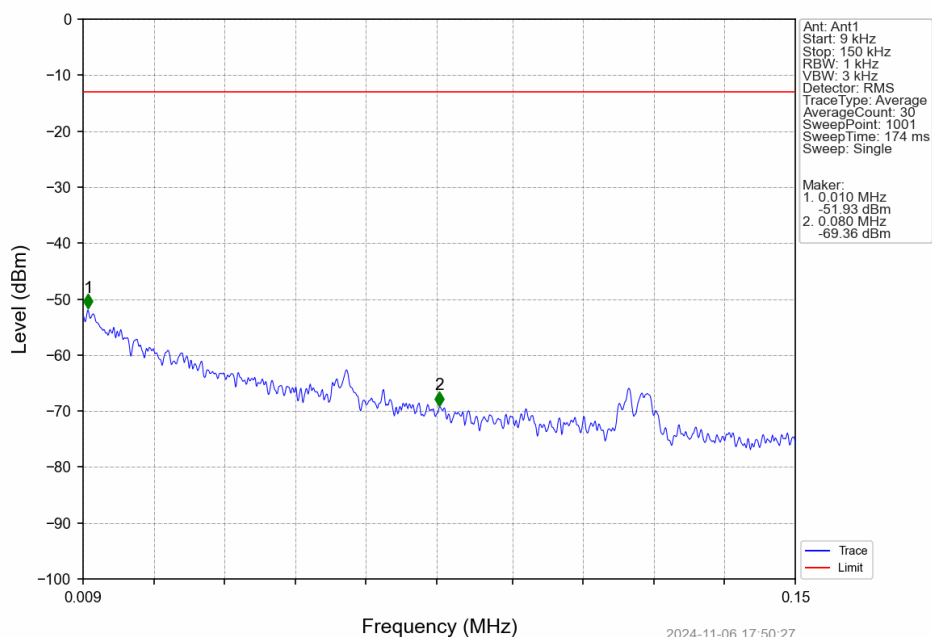
Band4_RMC_LCH_1712.4MHz_12.2kbps RMC NTN



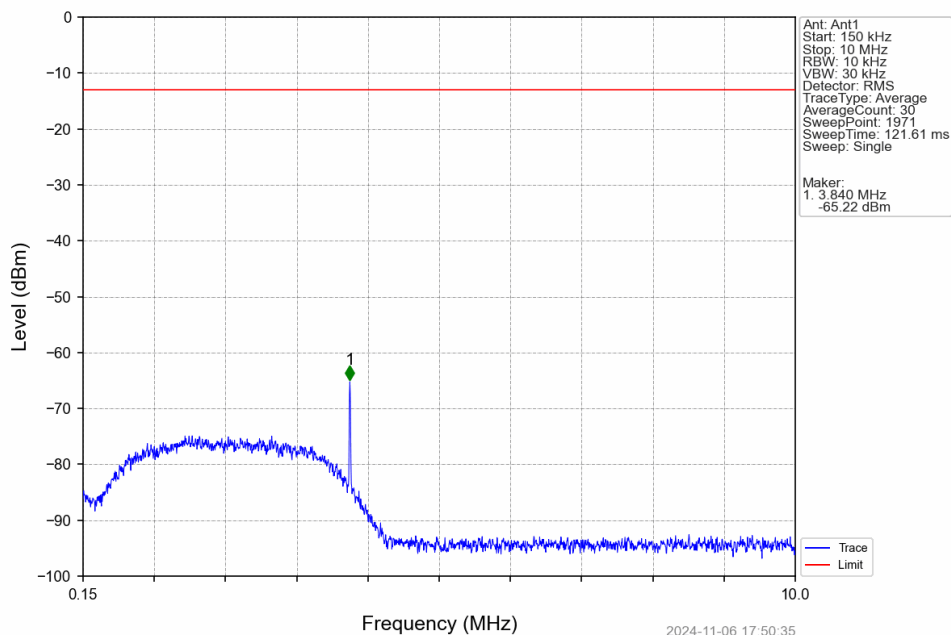
Band4 RMC MCH 1732.6MHz 12.2kbps RMC NTN



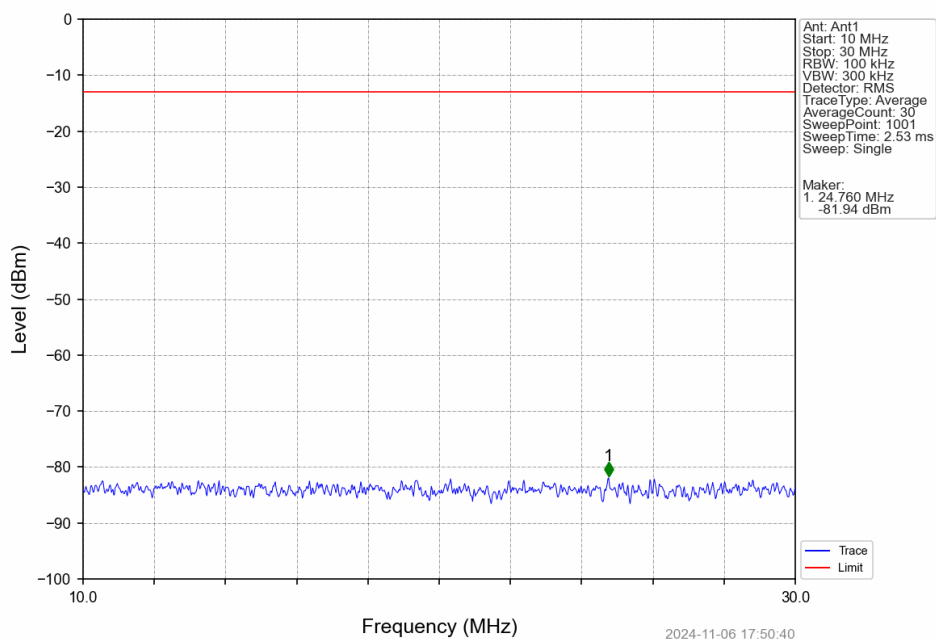
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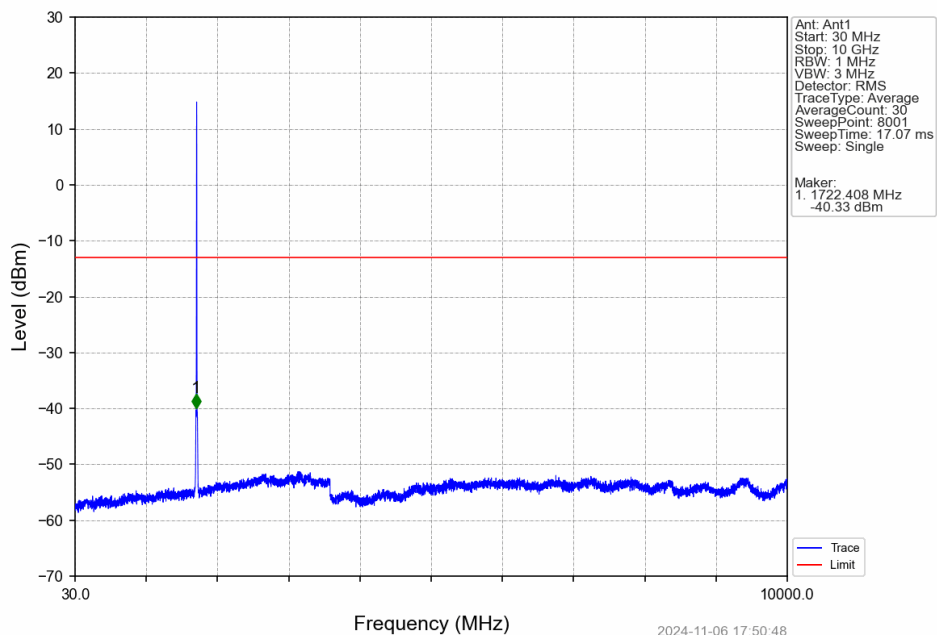
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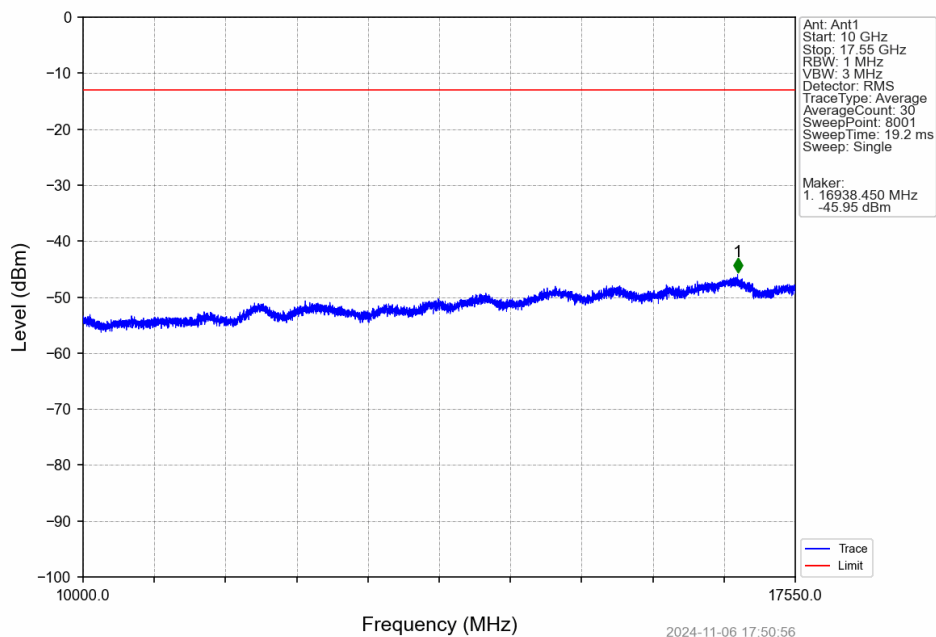
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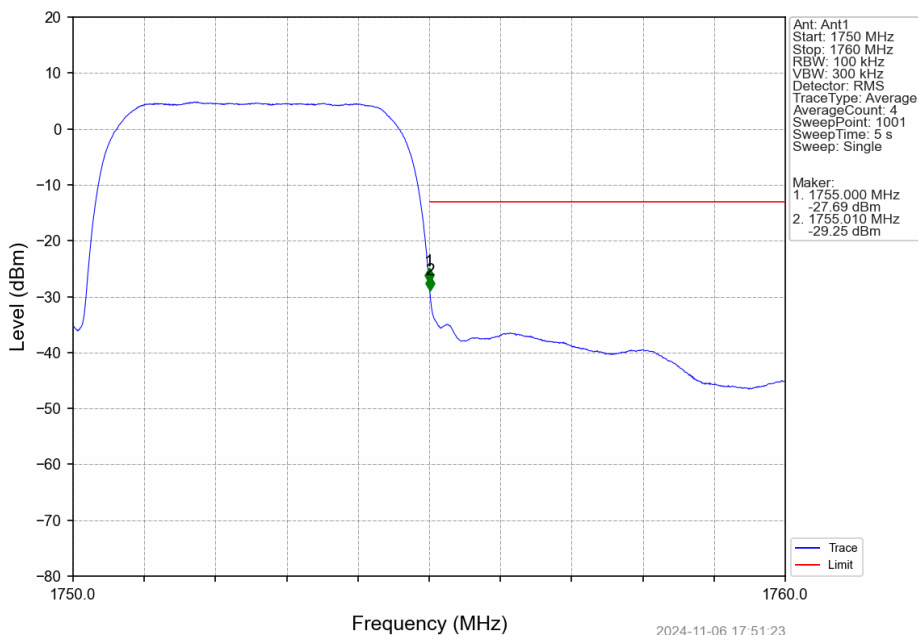
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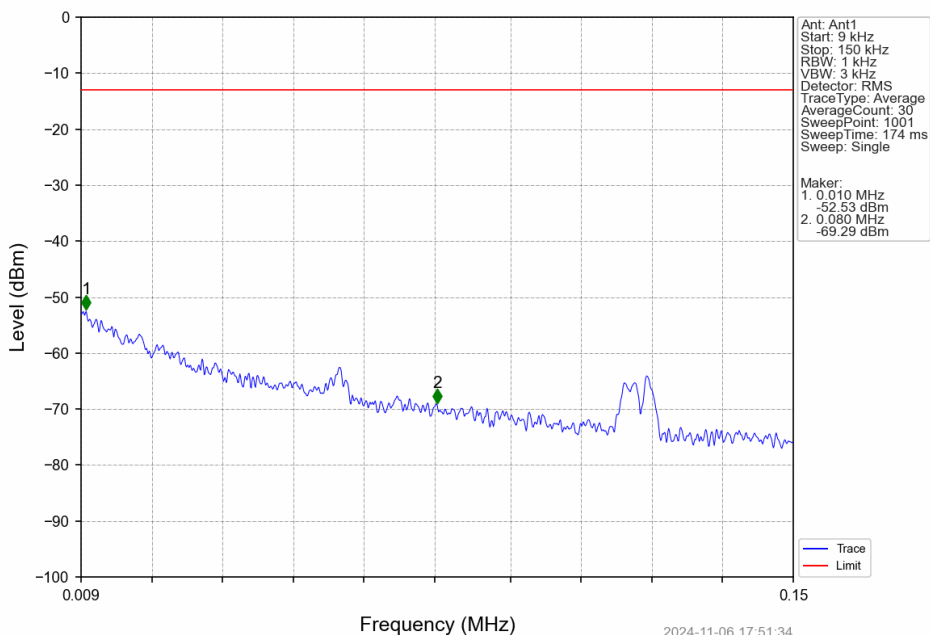
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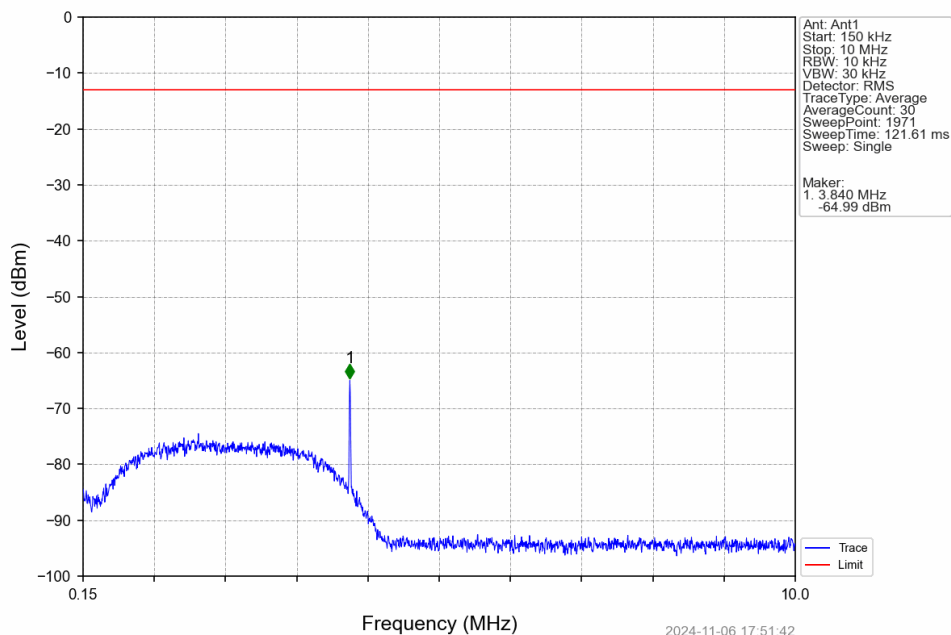
Band4 RMC HCH 1752.6MHz 12.2kbps RMC NTN



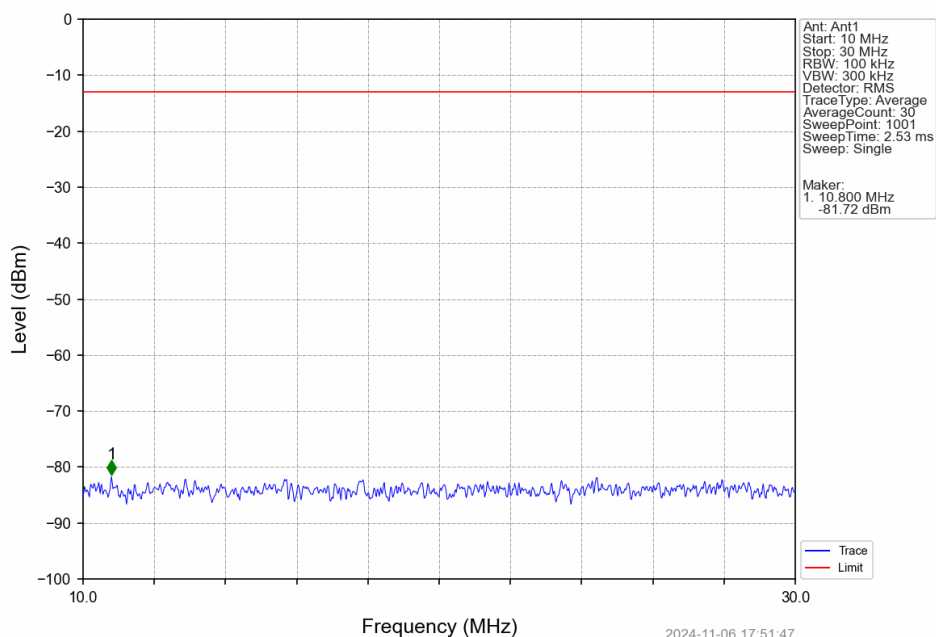
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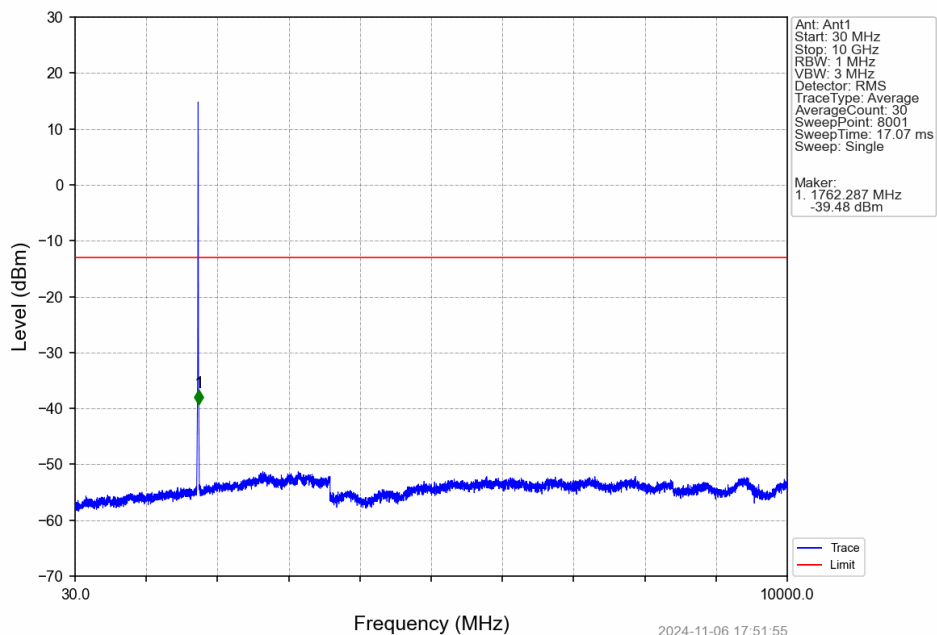
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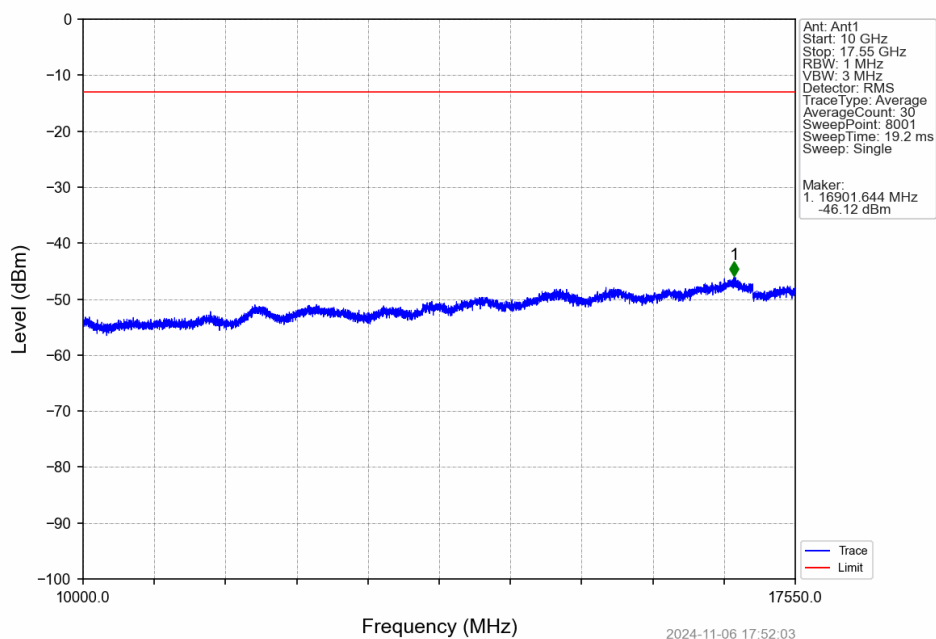
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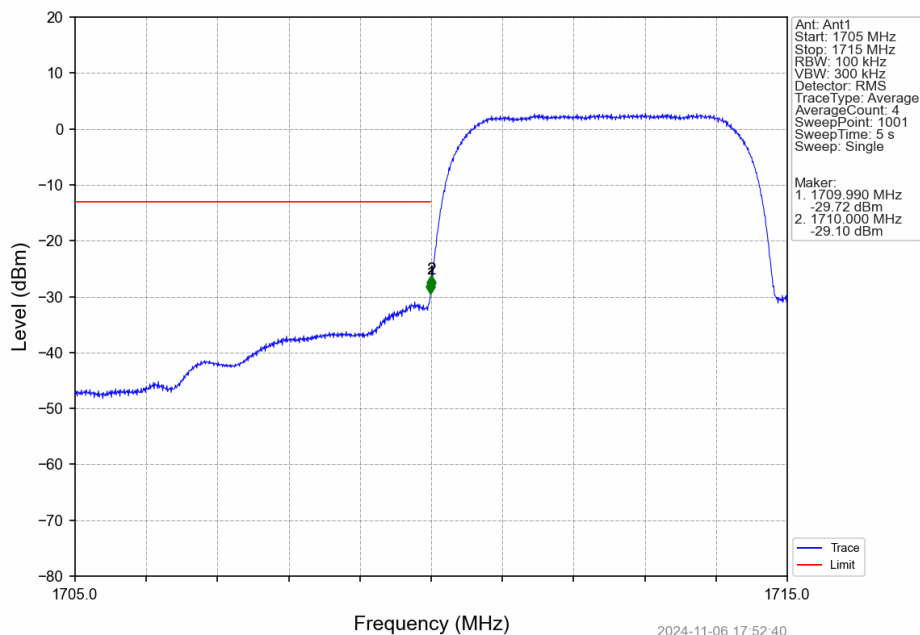
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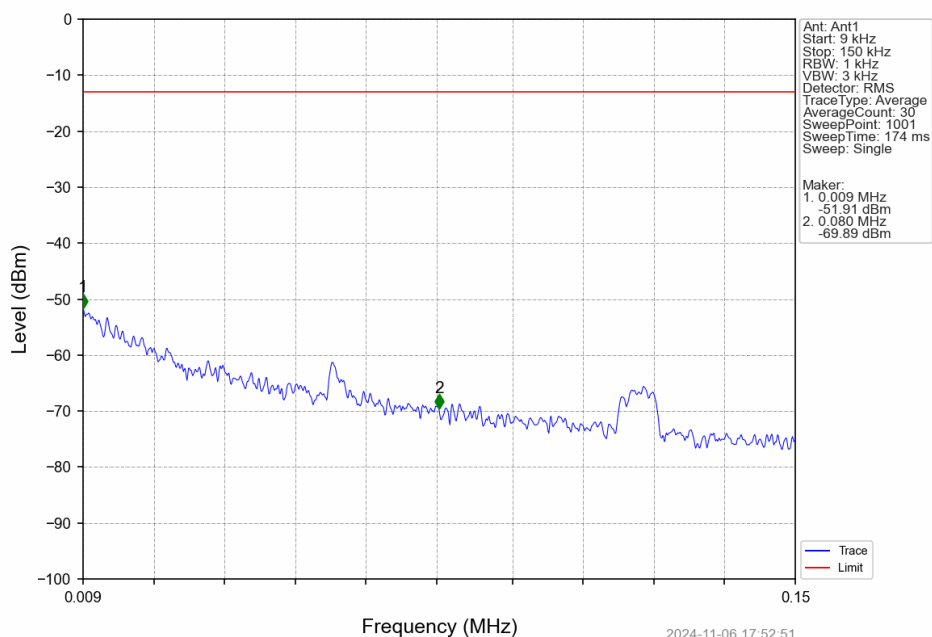
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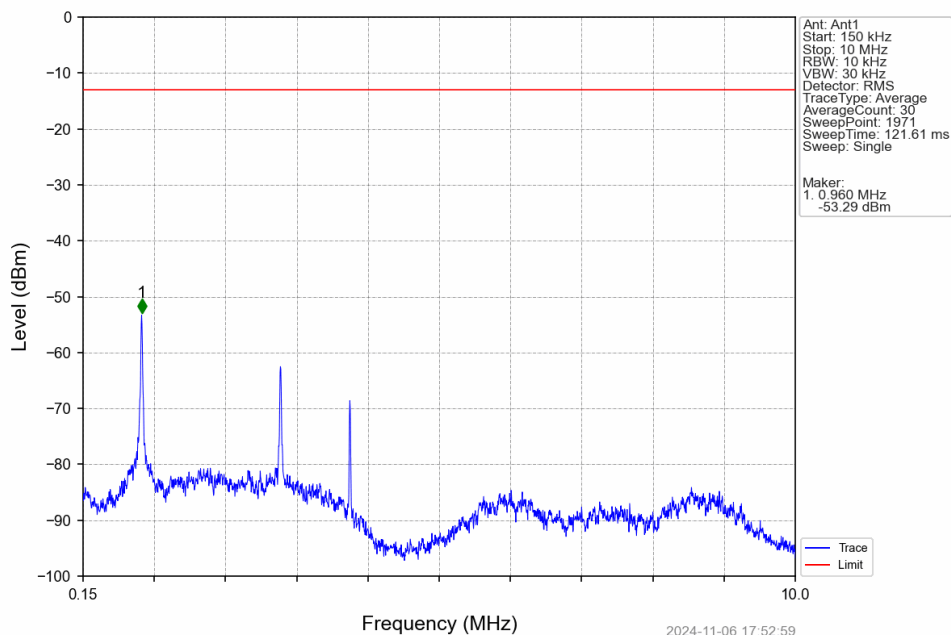
Band4 HSDPA LCH 1712.4MHz Subtest 1 NTNV



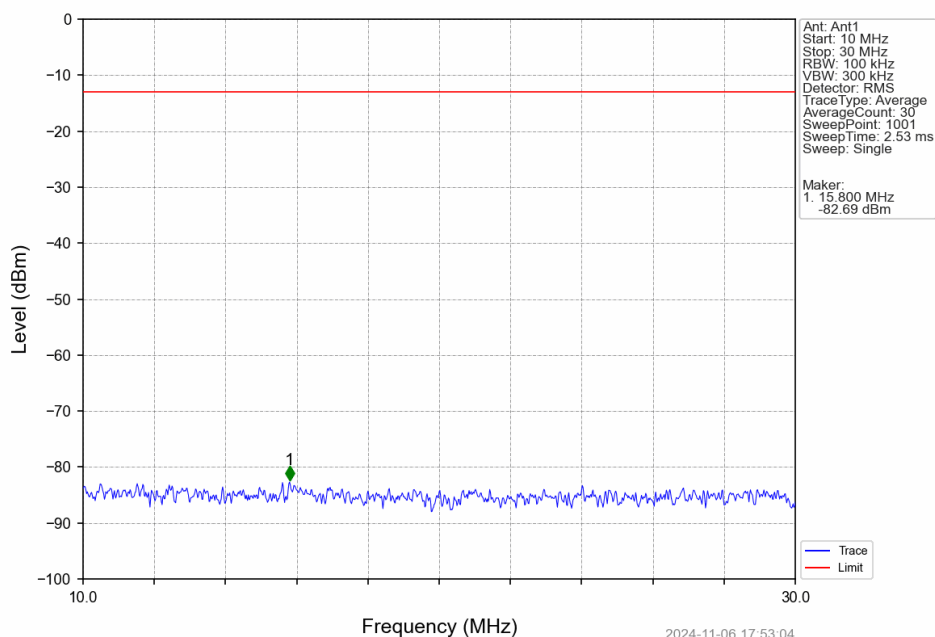
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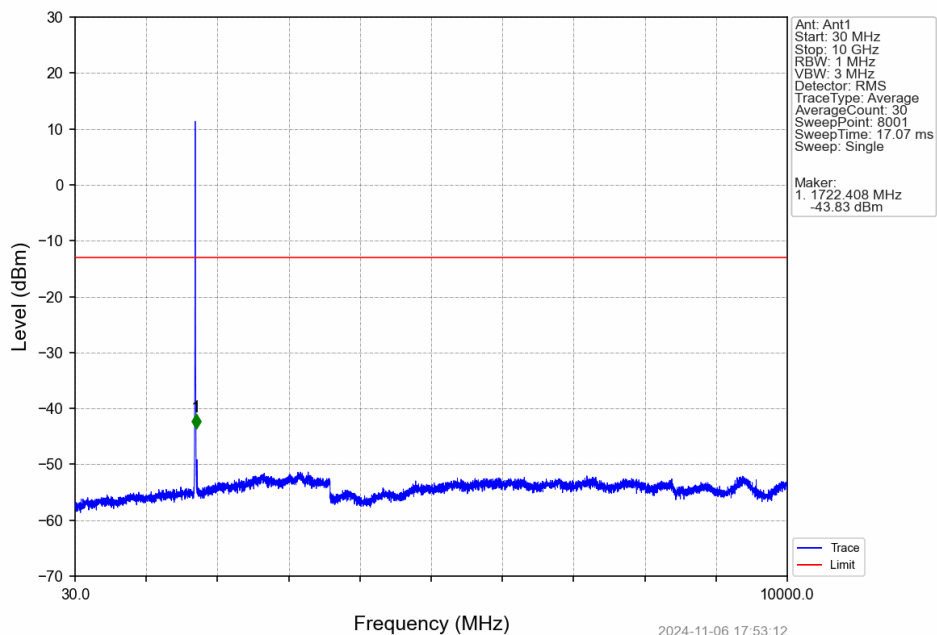
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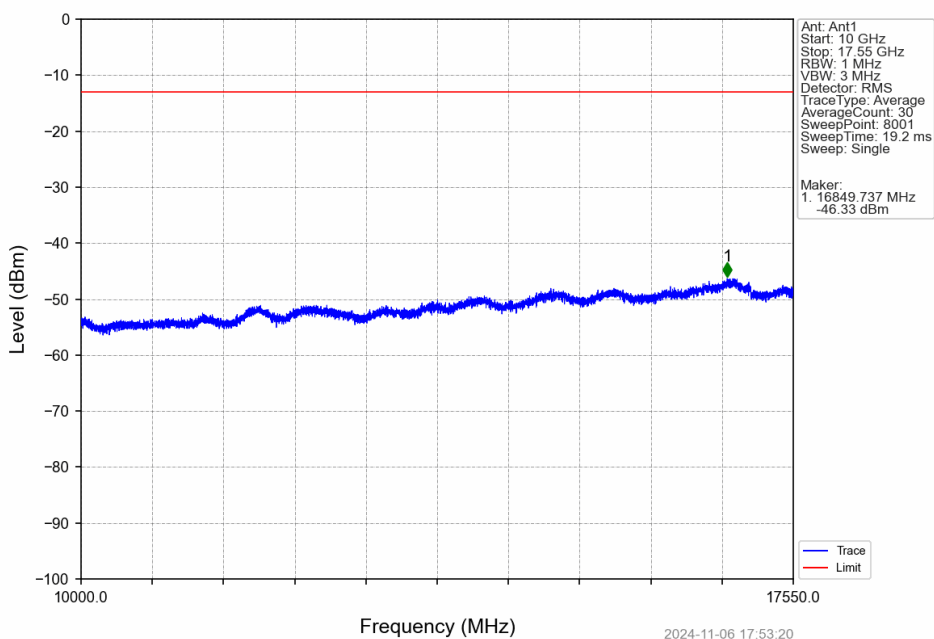
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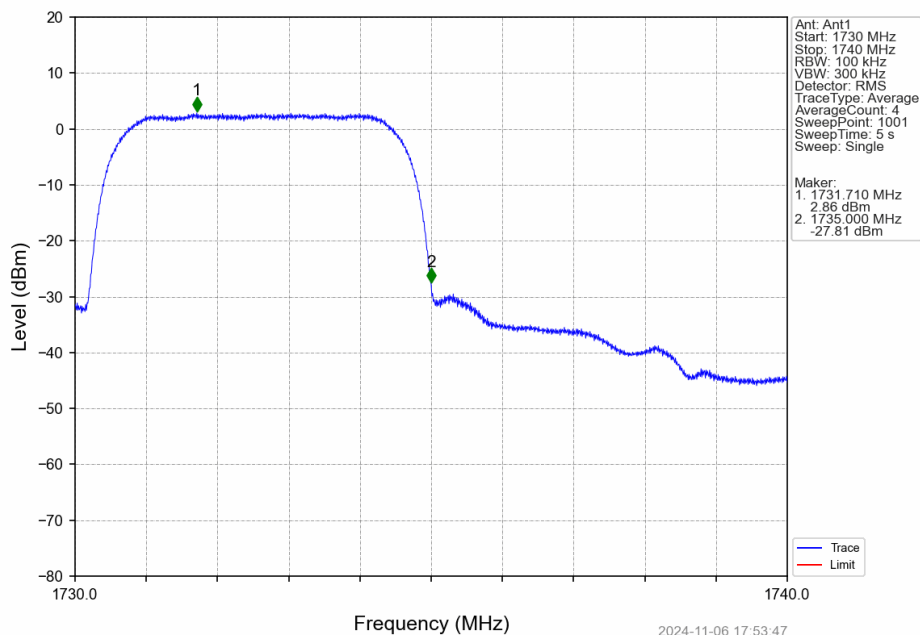
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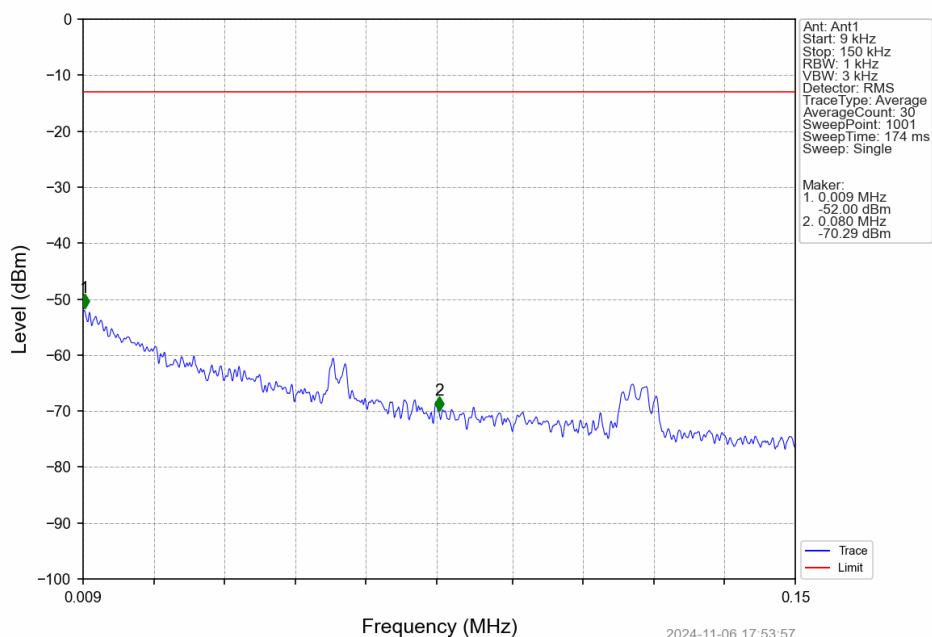
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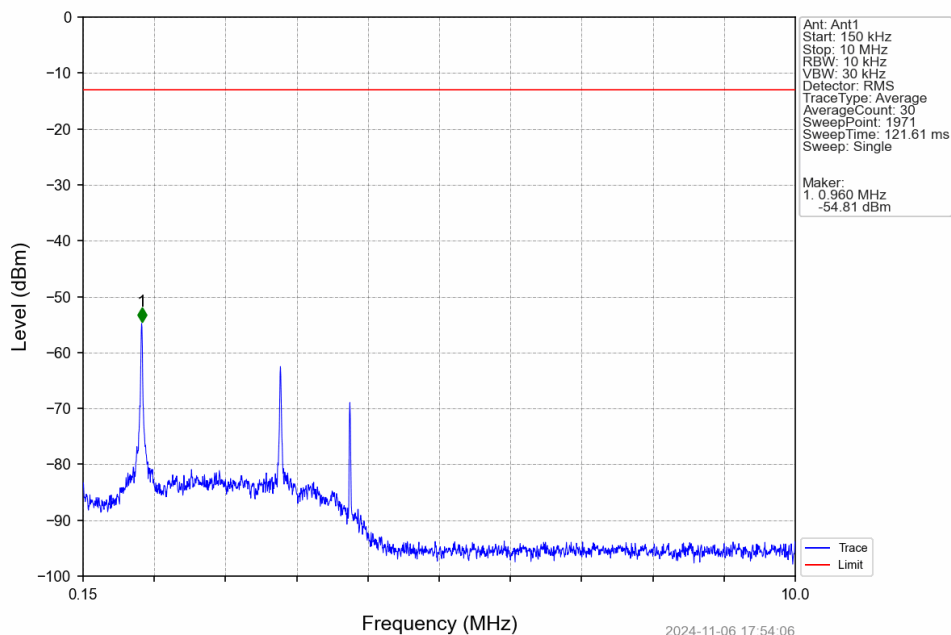
Band4 HSDPA MCH 1732.6MHz Subtest 1 NTNV



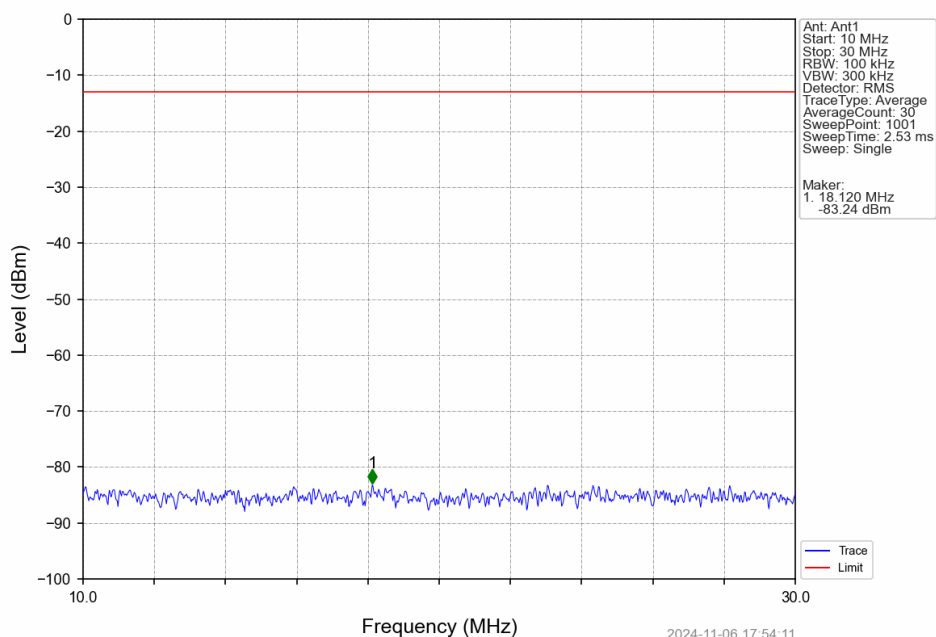
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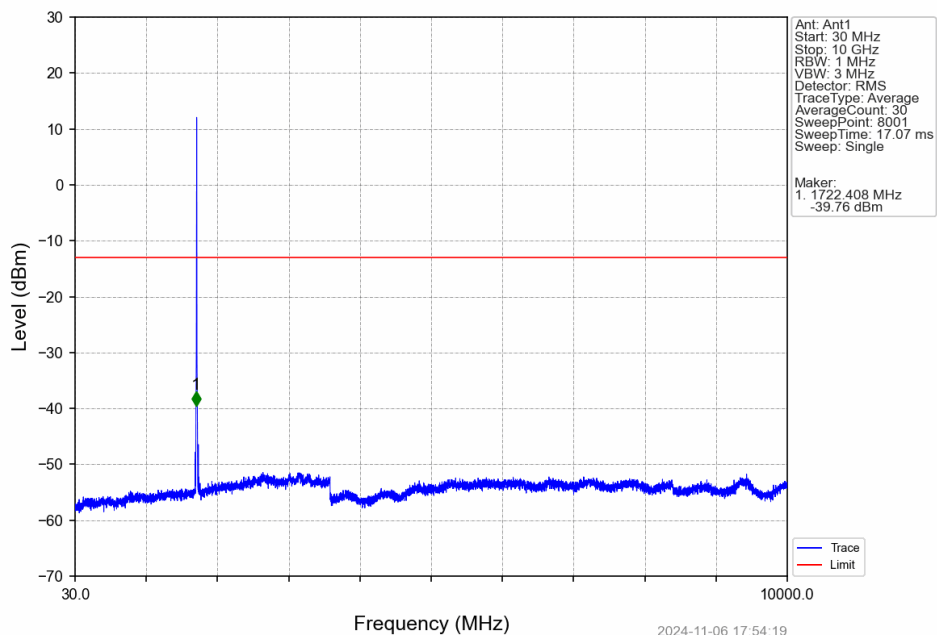
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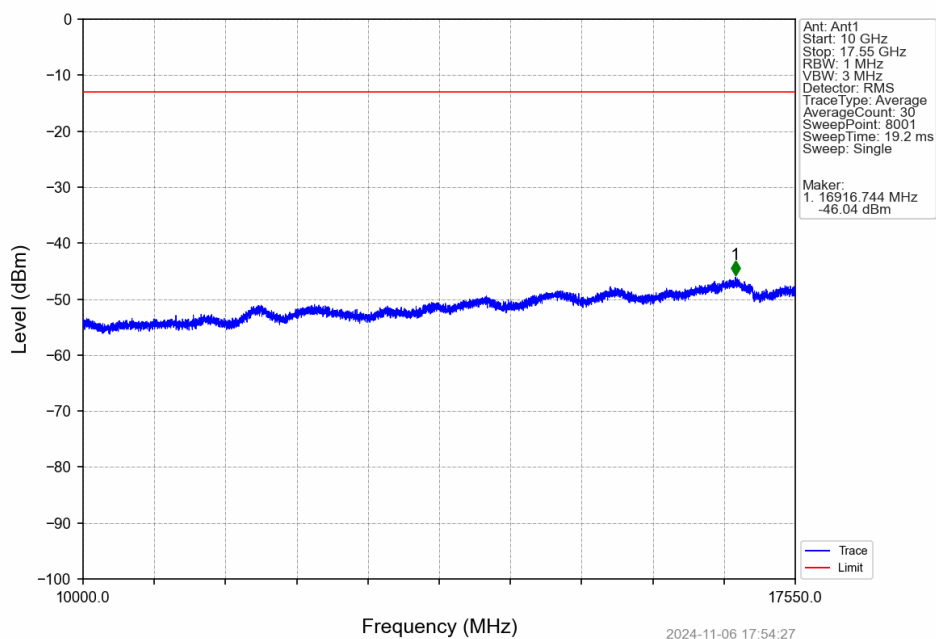
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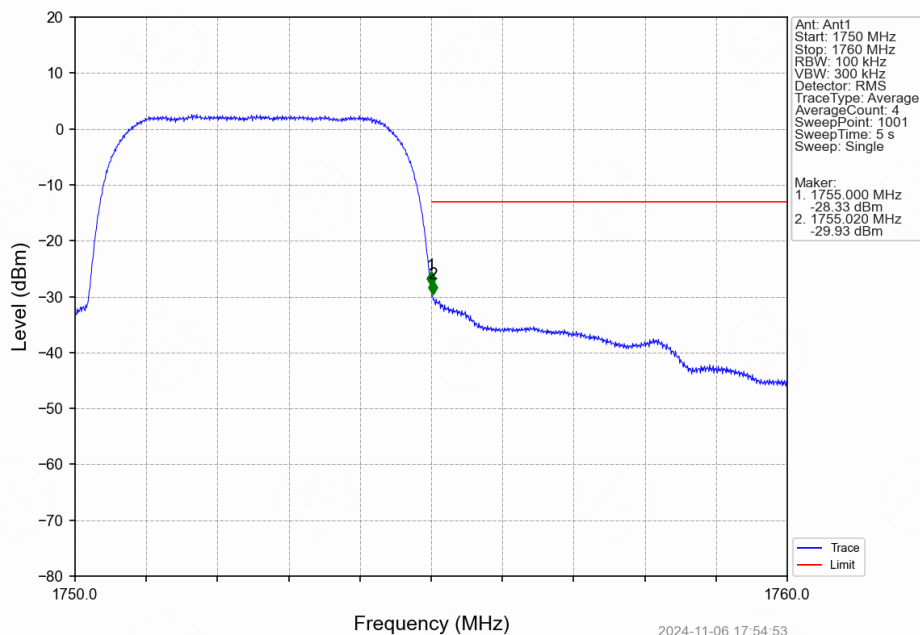
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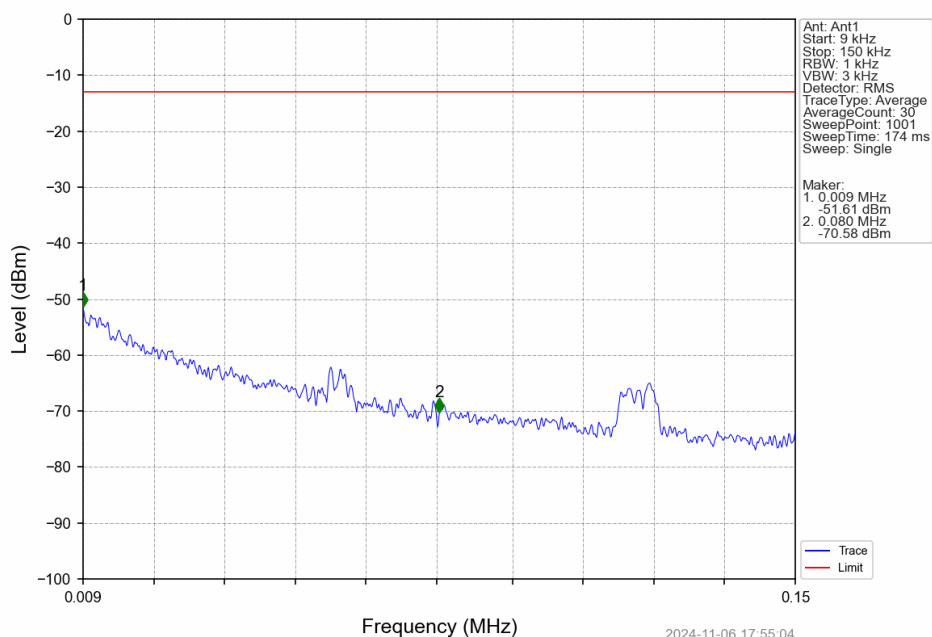
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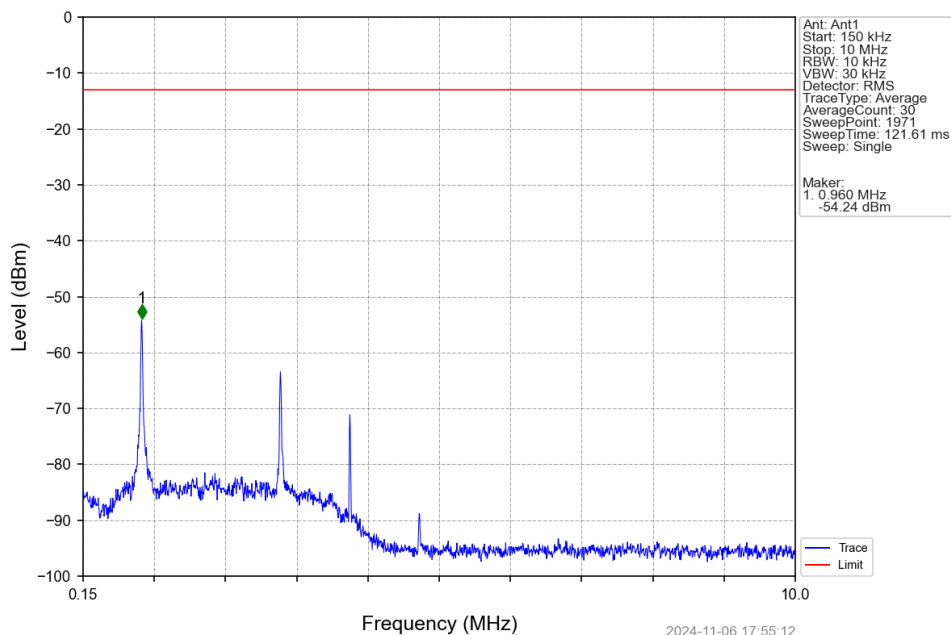
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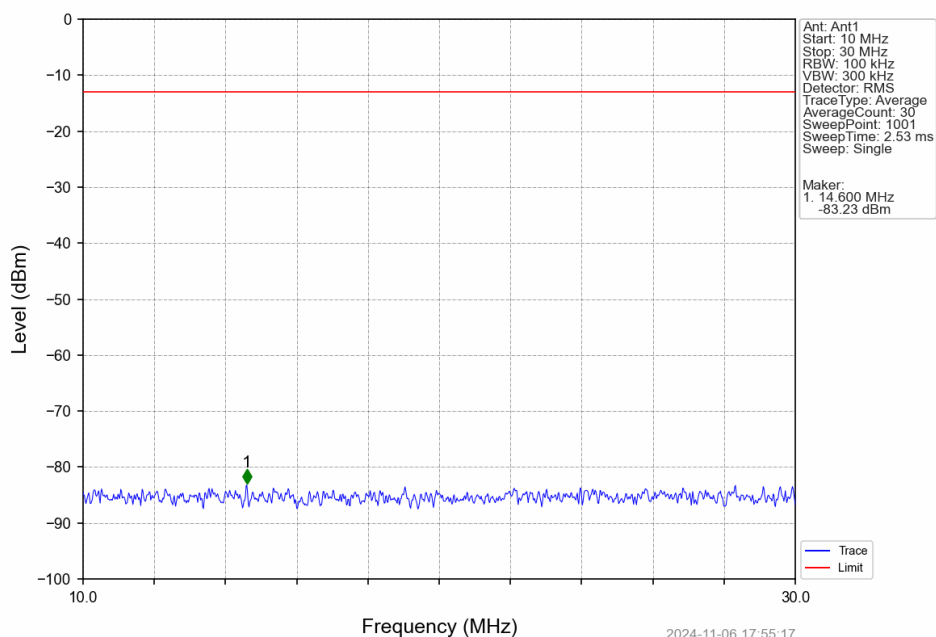
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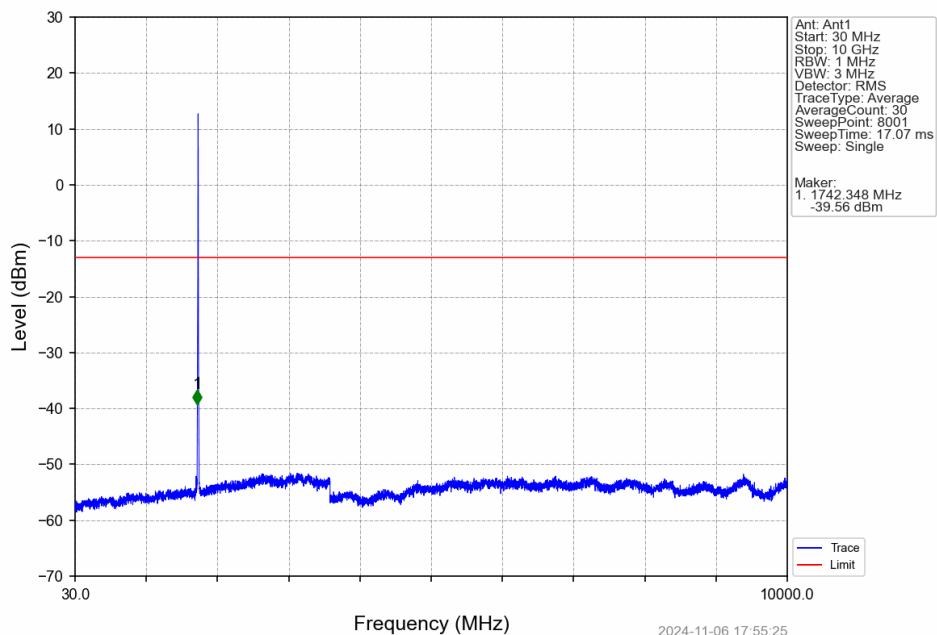
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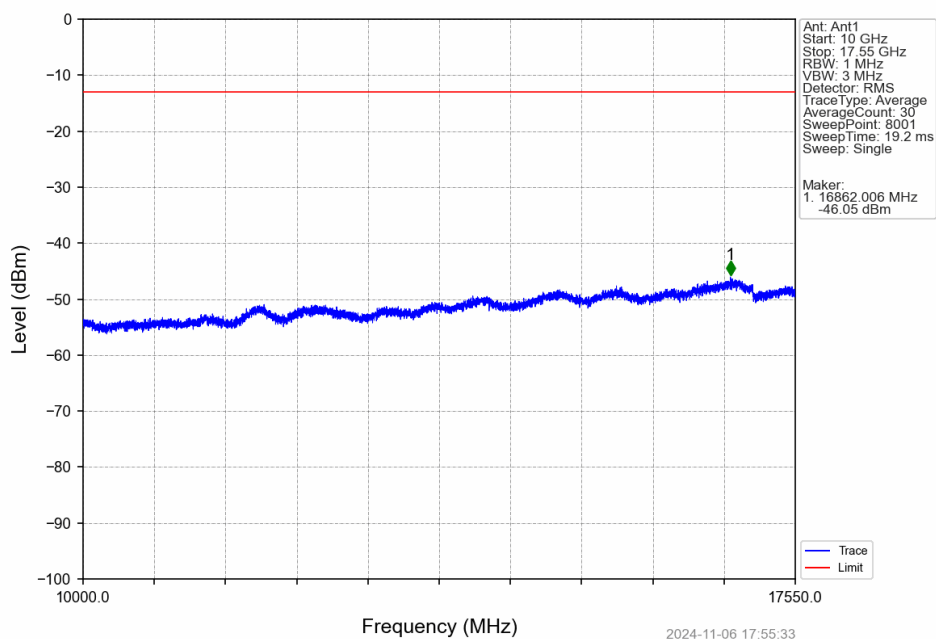
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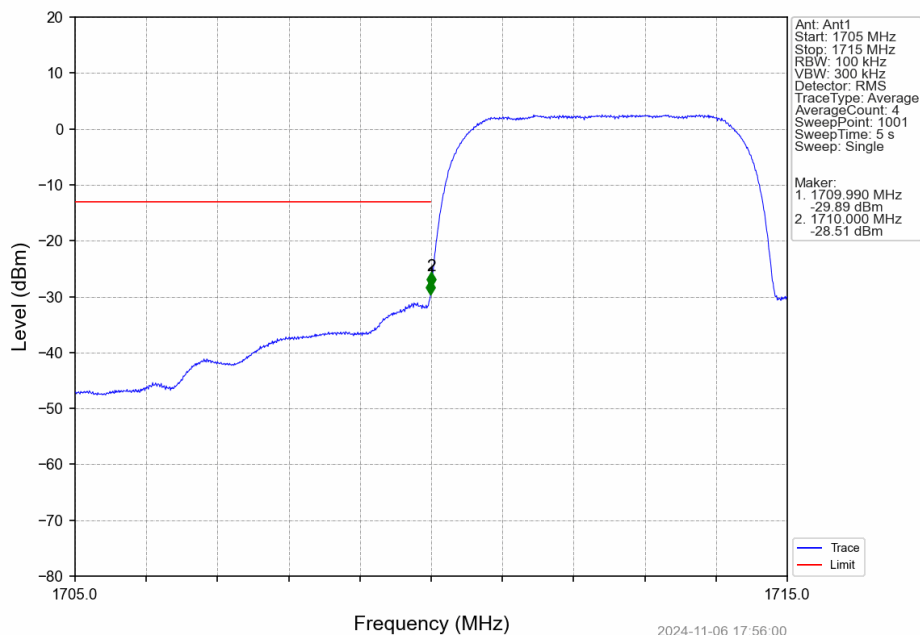
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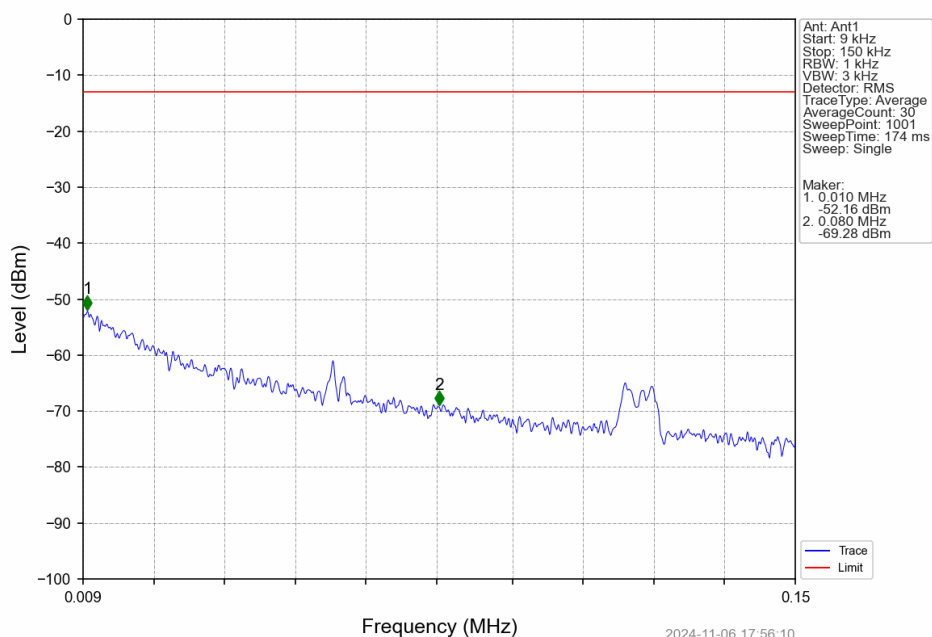
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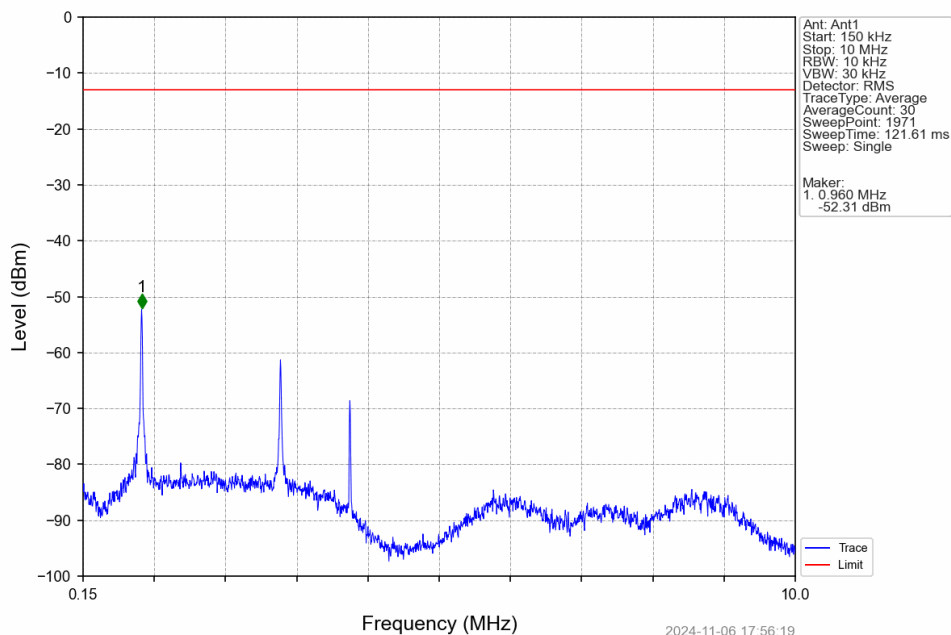
Band4 HSUPA LCH 1712.4MHz Subtest 1 NTV



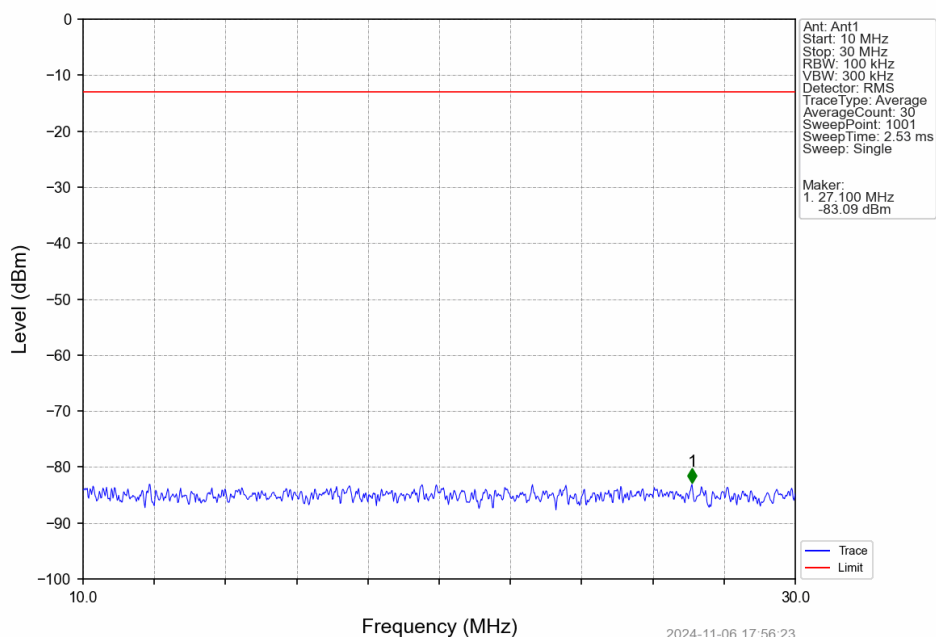
Band4_HSUPA_LCH_1712.4MHz_Subtest 1_NTV



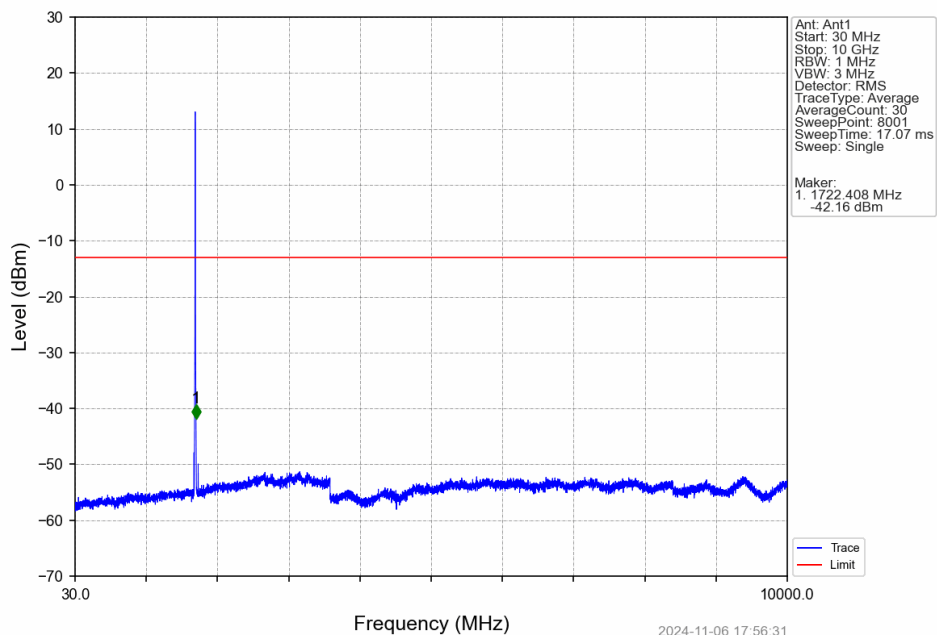
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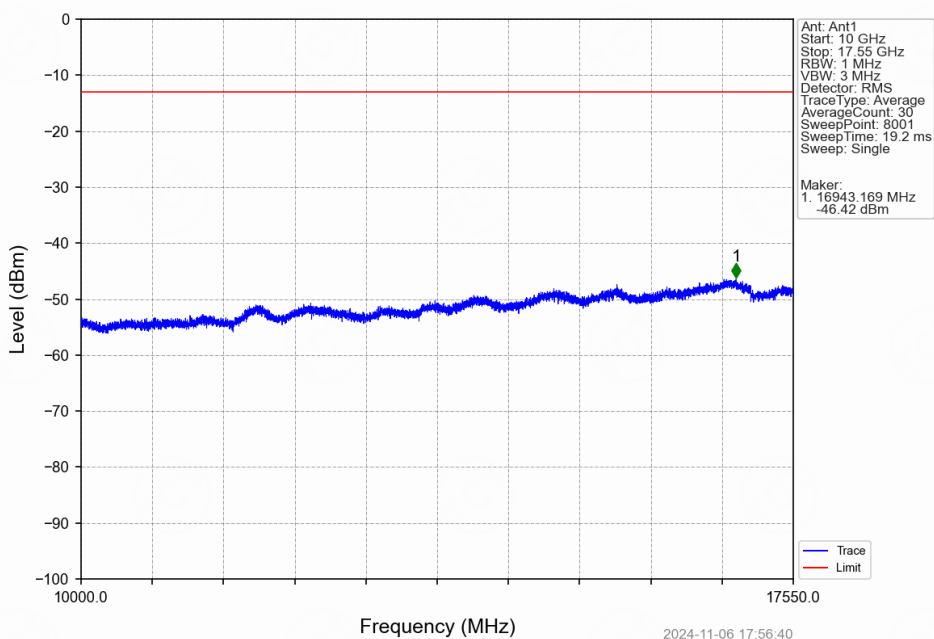
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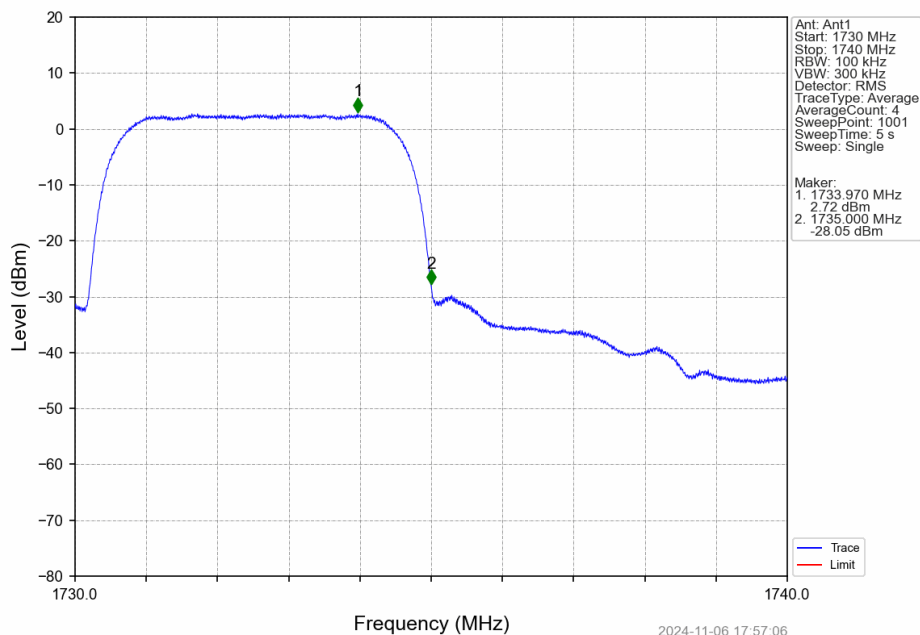
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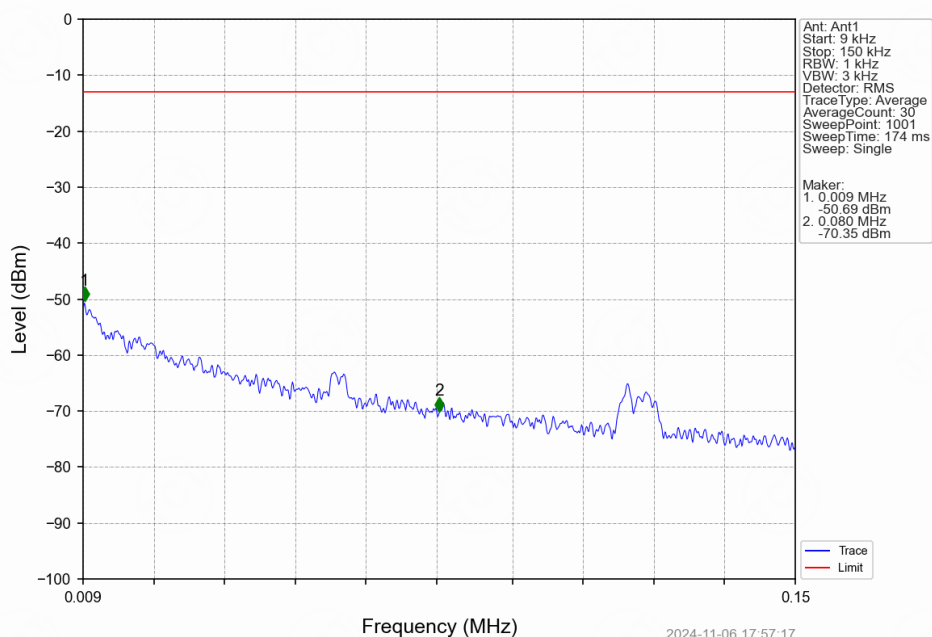
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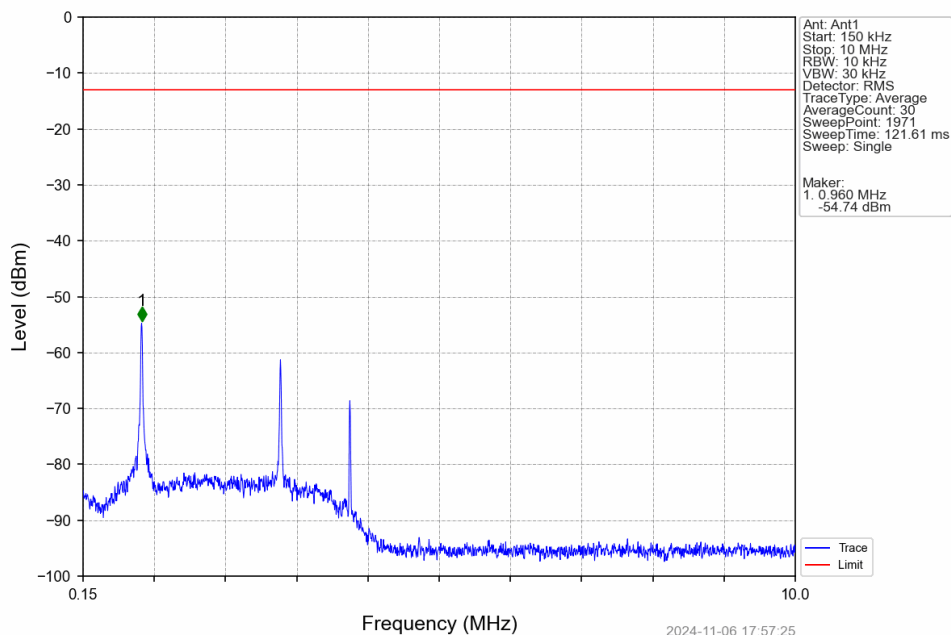
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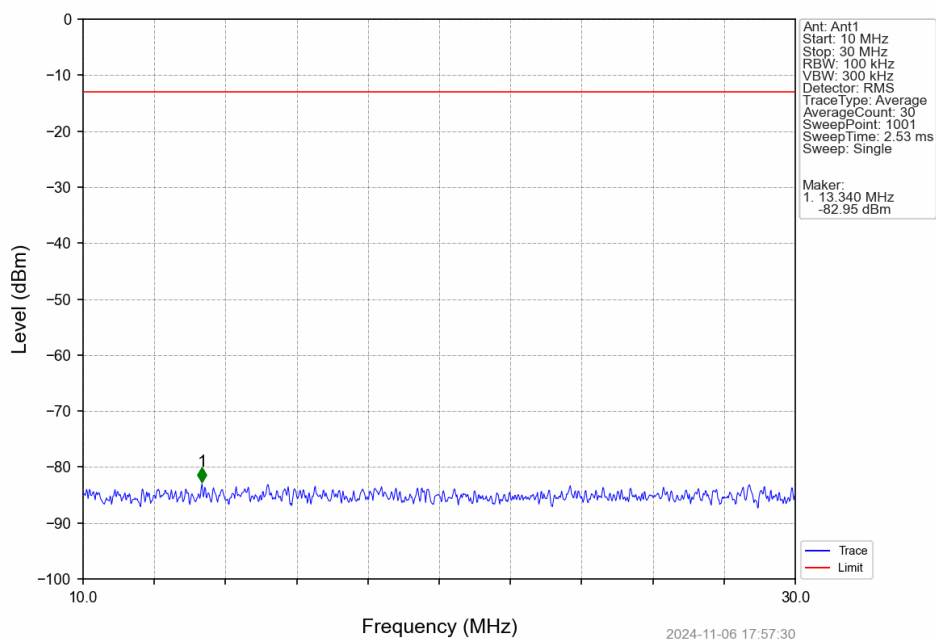
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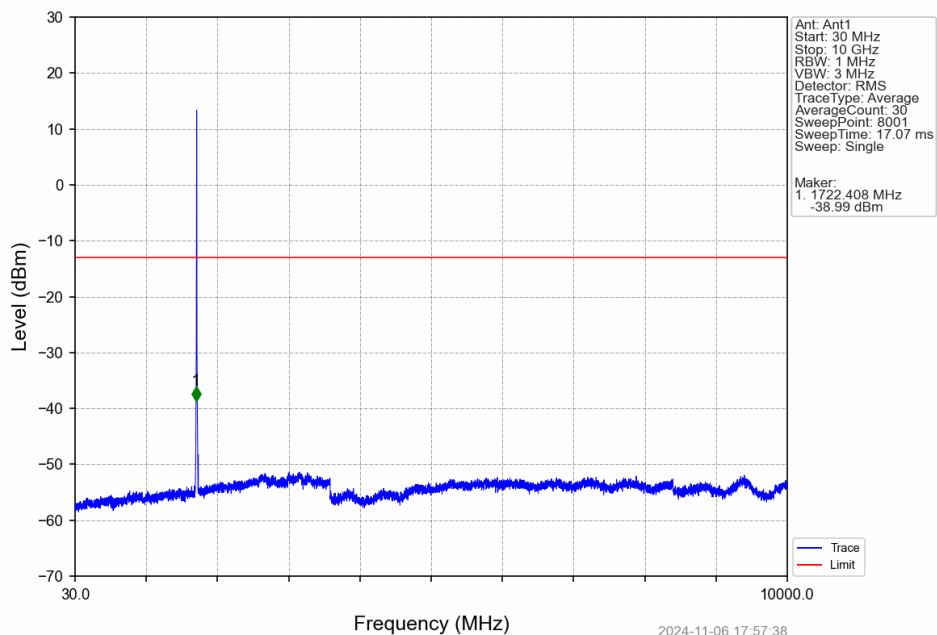
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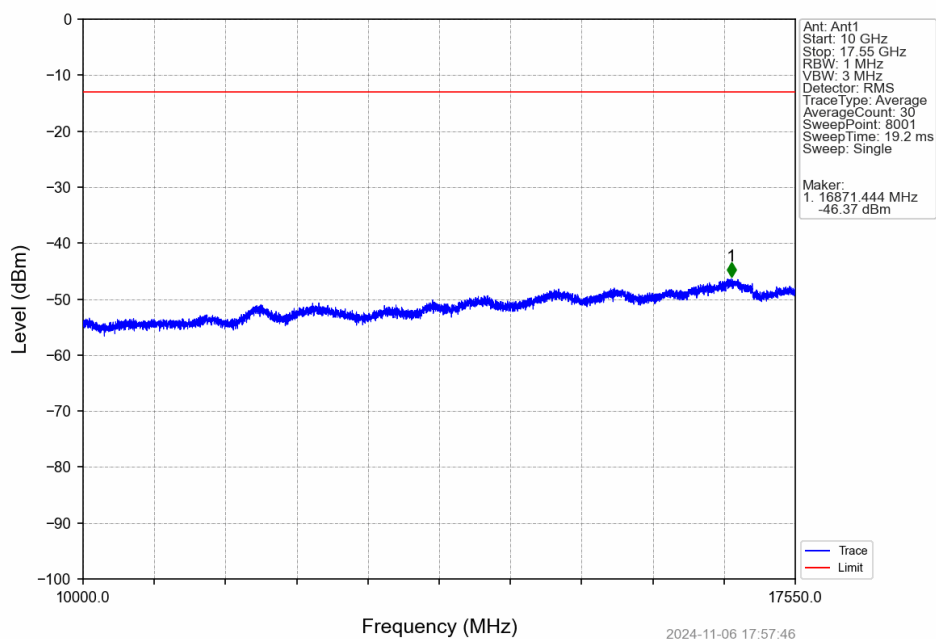
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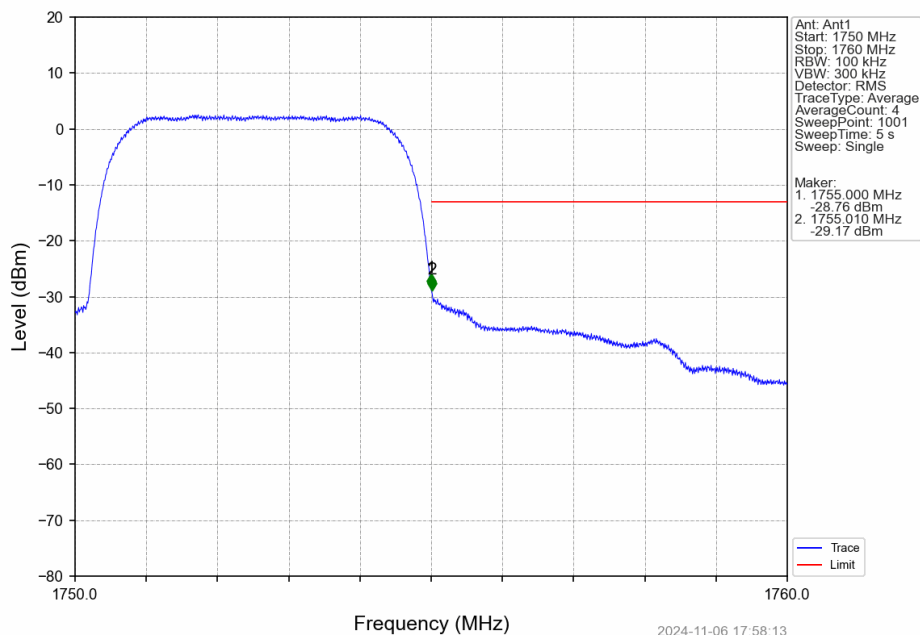
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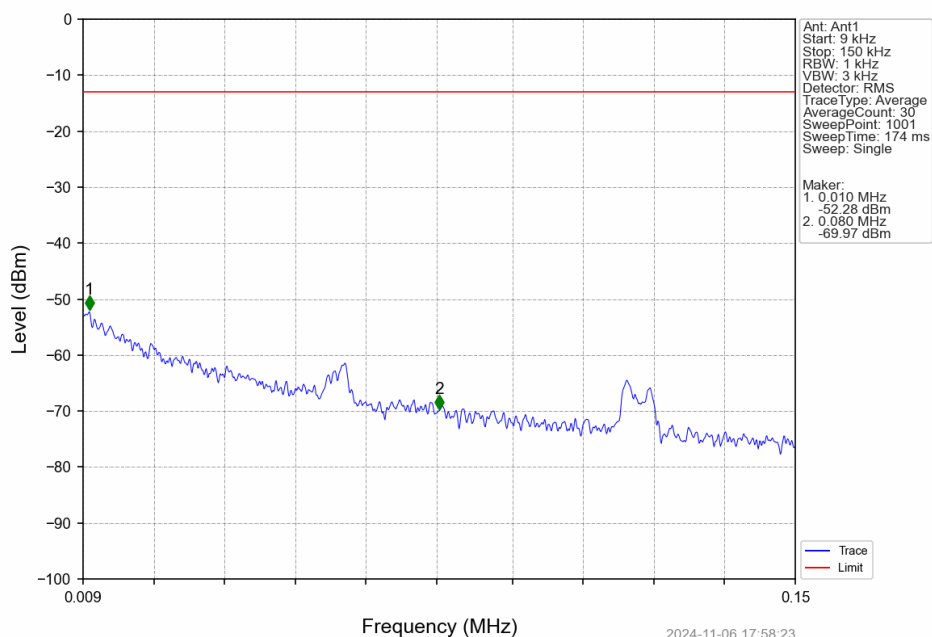
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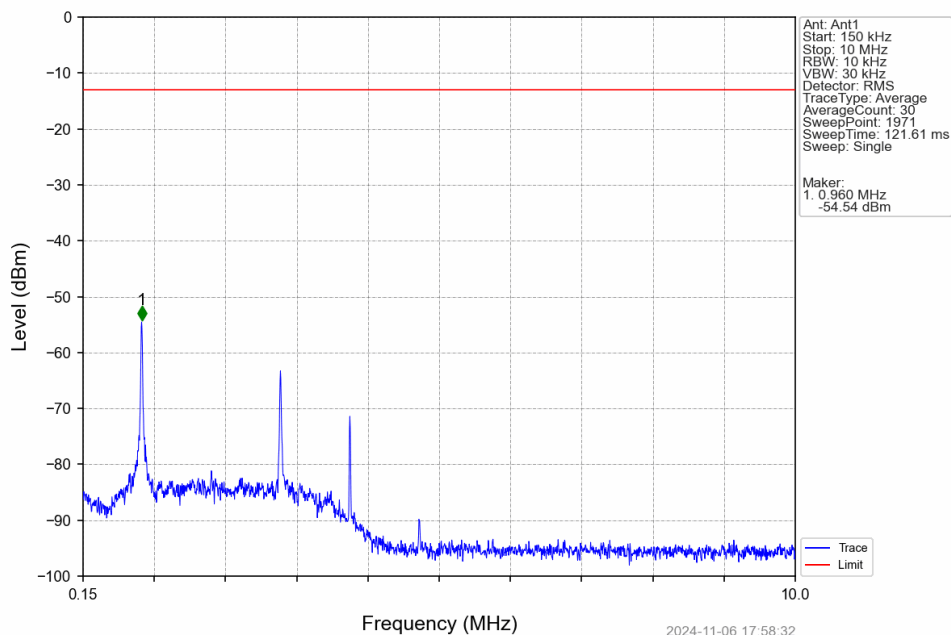
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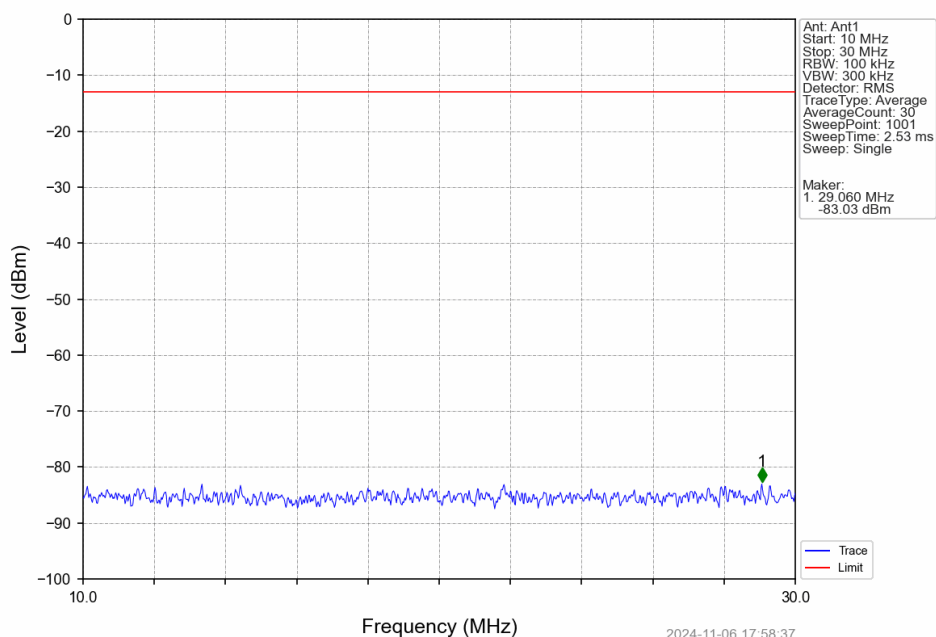
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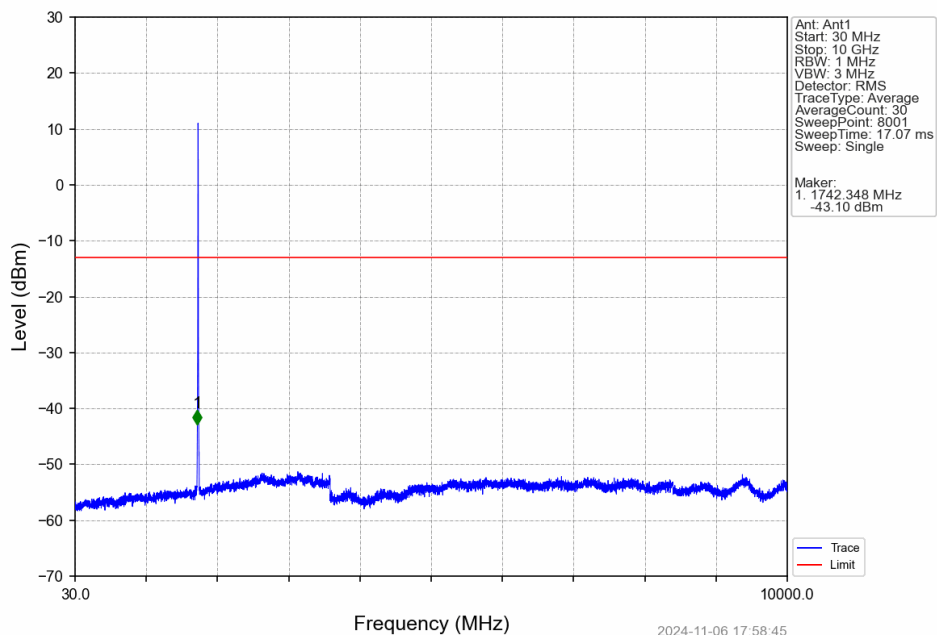
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Band4 HSUPA HCH 1752.6MHz Subtest 1 NTNV



Band4 HSUPA HCH 1752.6MHz Subtest 1 NTNV



Band4 HSUPA HCH 1752.6MHz Subtest 1 NTNV

