

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	24.23	0.00	24.23	<=30	Pass			
			1732.6	24.17	0.00	24.17	<=30	Pass			
			1752.6	24.17	0.00	24.17	<=30	Pass			
	HSDPA		Subtest 1	1712.4	21.84	0.00	21.84	<=30	Pass		
			Subtest 2	1712.4	21.84	0.00	21.84	<=30	Pass		
			Subtest 3	1712.4	21.88	0.00	21.88	<=30	Pass		
			Subtest 4	1712.4	21.83	0.00	21.83	<=30	Pass		
			Subtest 1	1732.6	21.89	0.00	21.89	<=30	Pass		
			Subtest 2	1732.6	21.94	0.00	21.94	<=30	Pass		
			Subtest 3	1732.6	21.95	0.00	21.95	<=30	Pass		
			Subtest 4	1732.6	21.95	0.00	21.95	<=30	Pass		
			Subtest 1	1752.6	21.83	0.00	21.83	<=30	Pass		
			Subtest 2	1752.6	21.90	0.00	21.90	<=30	Pass		
			Subtest 3	1752.6	21.90	0.00	21.90	<=30	Pass		
			Subtest 4	1752.6	21.83	0.00	21.83	<=30	Pass		
			HSUPA		Subtest 1	1712.4	20.03	0.00	20.03	<=30	Pass
					Subtest 2	1712.4	19.95	0.00	19.95	<=30	Pass
					Subtest 3	1712.4	19.78	0.00	19.78	<=30	Pass
	Subtest 4	1712.4			19.44	0.00	19.44	<=30	Pass		
	Subtest 5	1712.4			20.33	0.00	20.33	<=30	Pass		
	Subtest 1	1732.6			19.39	0.00	19.39	<=30	Pass		
	Subtest 2	1732.6			19.60	0.00	19.60	<=30	Pass		
	Subtest 3	1732.6			19.92	0.00	19.92	<=30	Pass		
	Subtest 4	1732.6			20.02	0.00	20.02	<=30	Pass		
	Subtest 5	1732.6			20.13	0.00	20.13	<=30	Pass		
	Subtest 1	1752.6			19.42	0.00	19.42	<=30	Pass		
	Subtest 2	1752.6			19.63	0.00	19.63	<=30	Pass		
	Subtest 3	1752.6	19.31	0.00	19.31	<=30	Pass				
Subtest 4	1752.6	19.66	0.00	19.66	<=30	Pass					
Subtest 5	1752.6	19.39	0.00	19.39	<=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	3.891	0.0023	-2.5 to 2.5	Pass
			NV	3.726	0.0022	-2.5 to 2.5	Pass
			HV	5.150	0.0030	-2.5 to 2.5	Pass
		-30	NV	4.063	0.0024	-2.5 to 2.5	Pass
		-20	NV	2.625	0.0015	-2.5 to 2.5	Pass
		-10	NV	1.752	0.0010	-2.5 to 2.5	Pass
		0	NV	1.860	0.0011	-2.5 to 2.5	Pass
		10	NV	4.742	0.0028	-2.5 to 2.5	Pass
		30	NV	3.297	0.0019	-2.5 to 2.5	Pass
		40	NV	1.123	0.0007	-2.5 to 2.5	Pass
	50	NV	4.885	0.0029	-2.5 to 2.5	Pass	
	1732.6	20	LV	0.350	0.0002	-2.5 to 2.5	Pass
			NV	1.888	0.0011	-2.5 to 2.5	Pass
			HV	0.100	0.0001	-2.5 to 2.5	Pass
		-30	NV	0.587	0.0003	-2.5 to 2.5	Pass
		-20	NV	-0.315	-0.0002	-2.5 to 2.5	Pass
		-10	NV	-0.179	-0.0001	-2.5 to 2.5	Pass
		0	NV	0.701	0.0004	-2.5 to 2.5	Pass
		10	NV	2.210	0.0013	-2.5 to 2.5	Pass
		30	NV	0.122	0.0001	-2.5 to 2.5	Pass
		40	NV	0.751	0.0004	-2.5 to 2.5	Pass
	50	NV	2.267	0.0013	-2.5 to 2.5	Pass	
	1752.6	20	LV	-3.669	-0.0021	-2.5 to 2.5	Pass
			NV	-0.980	-0.0006	-2.5 to 2.5	Pass
			HV	-3.276	-0.0019	-2.5 to 2.5	Pass
		-30	NV	-3.054	-0.0017	-2.5 to 2.5	Pass
		-20	NV	-2.511	-0.0014	-2.5 to 2.5	Pass
		-10	NV	-3.262	-0.0019	-2.5 to 2.5	Pass
		0	NV	-1.552	-0.0009	-2.5 to 2.5	Pass
		10	NV	-0.165	-0.0001	-2.5 to 2.5	Pass
30		NV	-1.845	-0.0011	-2.5 to 2.5	Pass	
40		NV	-0.043	0.0000	-2.5 to 2.5	Pass	
50	NV	-2.811	-0.0016	-2.5 to 2.5	Pass		
HSDPA	1712.4	20	LV	0.515	0.0003	-2.5 to 2.5	Pass
			NV	-0.150	-0.0001	-2.5 to 2.5	Pass
			HV	1.745	0.0010	-2.5 to 2.5	Pass
		-30	NV	-1.044	-0.0006	-2.5 to 2.5	Pass
		-20	NV	1.867	0.0011	-2.5 to 2.5	Pass
		-10	NV	-1.488	-0.0009	-2.5 to 2.5	Pass
		0	NV	0.021	0.0000	-2.5 to 2.5	Pass
		10	NV	-0.479	-0.0003	-2.5 to 2.5	Pass
		30	NV	0.086	0.0001	-2.5 to 2.5	Pass
		40	NV	-0.451	-0.0003	-2.5 to 2.5	Pass
	50	NV	1.431	0.0008	-2.5 to 2.5	Pass	
	1732.6	20	LV	-1.867	-0.0011	-2.5 to 2.5	Pass
			NV	-1.581	-0.0009	-2.5 to 2.5	Pass
HV			-1.116	-0.0006	-2.5 to 2.5	Pass	

		-30	NV	-0.479	-0.0003	-2.5 to 2.5	Pass	
		-20	NV	-2.654	-0.0015	-2.5 to 2.5	Pass	
		-10	NV	-2.711	-0.0016	-2.5 to 2.5	Pass	
		0	NV	-2.990	-0.0017	-2.5 to 2.5	Pass	
		10	NV	-1.030	-0.0006	-2.5 to 2.5	Pass	
		30	NV	-3.140	-0.0018	-2.5 to 2.5	Pass	
		40	NV	-1.223	-0.0007	-2.5 to 2.5	Pass	
		50	NV	-1.709	-0.0010	-2.5 to 2.5	Pass	
		1752.6	20	LV	-9.656	-0.0055	-2.5 to 2.5	Pass
				NV	-10.357	-0.0059	-2.5 to 2.5	Pass
				HV	-4.978	-0.0028	-2.5 to 2.5	Pass
			-30	NV	-6.967	-0.0040	-2.5 to 2.5	Pass
			-20	NV	-4.807	-0.0027	-2.5 to 2.5	Pass
			-10	NV	-7.260	-0.0041	-2.5 to 2.5	Pass
			0	NV	-6.824	-0.0039	-2.5 to 2.5	Pass
			10	NV	-3.648	-0.0021	-2.5 to 2.5	Pass
			30	NV	-4.742	-0.0027	-2.5 to 2.5	Pass
40	NV		-6.559	-0.0037	-2.5 to 2.5	Pass		
50	NV	-8.197	-0.0047	-2.5 to 2.5	Pass			
HSUPA	1712.4	20	LV	9.141	0.0053	-2.5 to 2.5	Pass	
			NV	3.884	0.0023	-2.5 to 2.5	Pass	
			HV	4.148	0.0024	-2.5 to 2.5	Pass	
		-30	NV	4.857	0.0028	-2.5 to 2.5	Pass	
		-20	NV	4.985	0.0029	-2.5 to 2.5	Pass	
		-10	NV	7.632	0.0045	-2.5 to 2.5	Pass	
		0	NV	7.195	0.0042	-2.5 to 2.5	Pass	
		10	NV	7.660	0.0045	-2.5 to 2.5	Pass	
		30	NV	6.115	0.0036	-2.5 to 2.5	Pass	
		40	NV	9.506	0.0056	-2.5 to 2.5	Pass	
	50	NV	3.326	0.0019	-2.5 to 2.5	Pass		
	1732.6	20	LV	7.560	0.0044	-2.5 to 2.5	Pass	
			NV	6.244	0.0036	-2.5 to 2.5	Pass	
			HV	7.718	0.0045	-2.5 to 2.5	Pass	
		-30	NV	5.186	0.0030	-2.5 to 2.5	Pass	
		-20	NV	4.807	0.0028	-2.5 to 2.5	Pass	
		-10	NV	8.125	0.0047	-2.5 to 2.5	Pass	
0		NV	5.200	0.0030	-2.5 to 2.5	Pass		
10		NV	8.526	0.0049	-2.5 to 2.5	Pass		
30	NV	9.277	0.0054	-2.5 to 2.5	Pass			
40	NV	6.802	0.0039	-2.5 to 2.5	Pass			
50	NV	5.007	0.0029	-2.5 to 2.5	Pass			
1752.6	20	LV	3.870	0.0022	-2.5 to 2.5	Pass		
		NV	0.365	0.0002	-2.5 to 2.5	Pass		
		HV	5.515	0.0031	-2.5 to 2.5	Pass		
	-30	NV	2.539	0.0014	-2.5 to 2.5	Pass		
	-20	NV	4.699	0.0027	-2.5 to 2.5	Pass		
	-10	NV	1.888	0.0011	-2.5 to 2.5	Pass		
	0	NV	2.668	0.0015	-2.5 to 2.5	Pass		
	10	NV	3.705	0.0021	-2.5 to 2.5	Pass		
30	NV	3.247	0.0019	-2.5 to 2.5	Pass			
40	NV	4.027	0.0023	-2.5 to 2.5	Pass			
50	NV	5.078	0.0029	-2.5 to 2.5	Pass			

3. 99% & 26dB Bandwidth

3.1 Test Result

3.1.1 BandIV_OBW

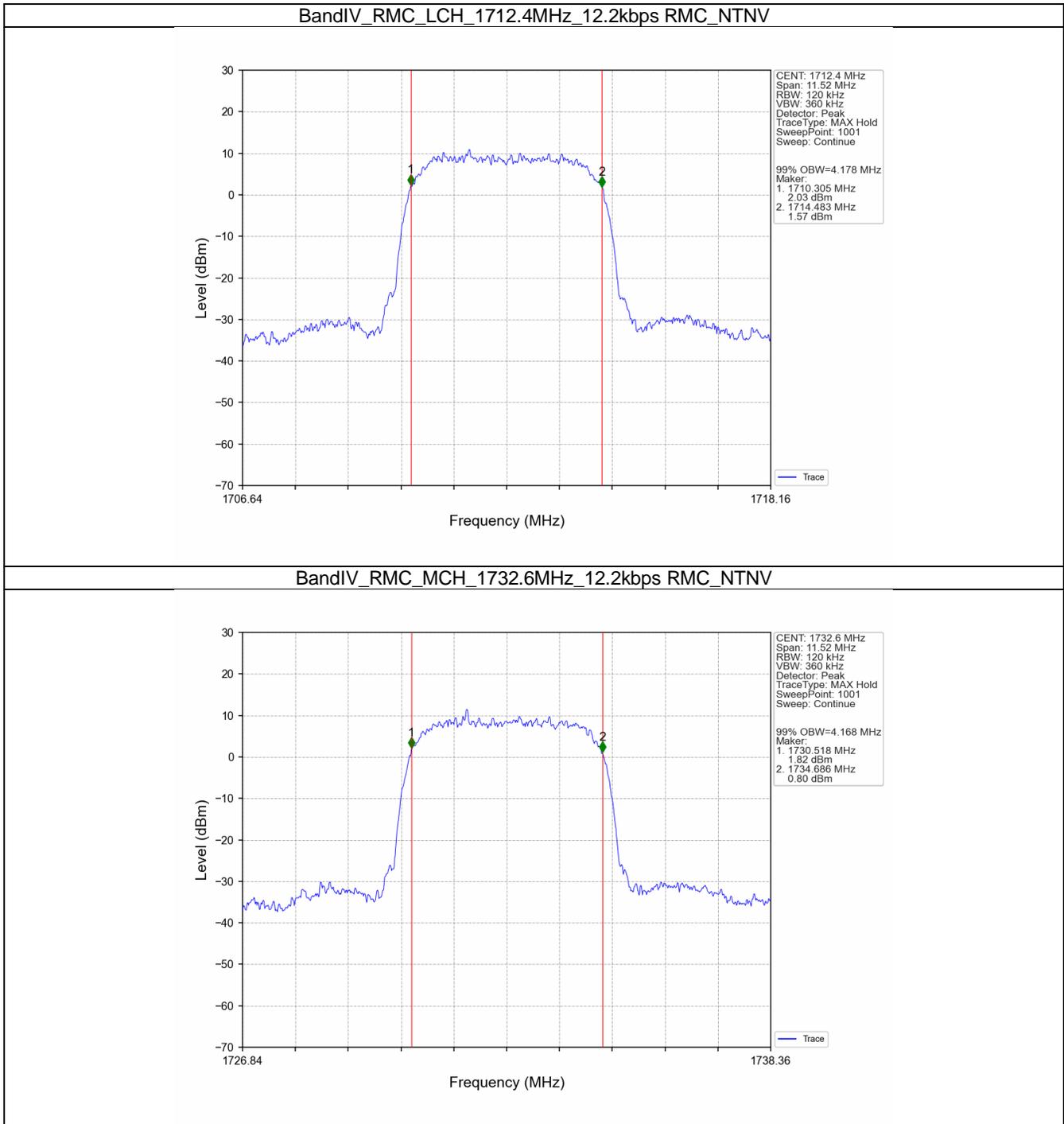
Band: IV						
ENV	Mode		Frequency (MHz)	99% Occupied Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1712.4	4.178	/	Pass
			1732.6	4.168	/	Pass
			1752.6	4.171	/	Pass
	HSDPA	Subtest 1	1712.4	4.202	/	Pass
			1732.6	4.173	/	Pass
			1752.6	4.182	/	Pass
	HSUPA	Subtest 1	1712.4	4.187	/	Pass
			1732.6	4.197	/	Pass
			1752.6	4.194	/	Pass

3.1.2 BandIV_XDB

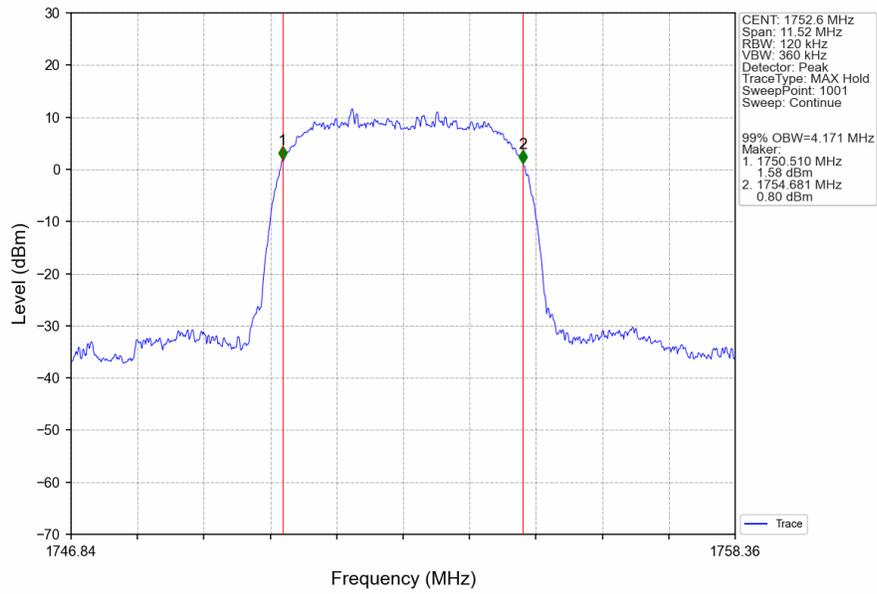
Band: IV						
ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1712.4	4.738	/	Pass
			1732.6	4.706	/	Pass
			1752.6	4.720	/	Pass
	HSDPA	Subtest 1	1712.4	4.740	/	Pass
			1732.6	4.737	/	Pass
			1752.6	4.860	/	Pass
	HSUPA	Subtest 1	1712.4	4.750	/	Pass
			1732.6	5.818	/	Pass
			1752.6	4.857	/	Pass

3.2 Test Graph

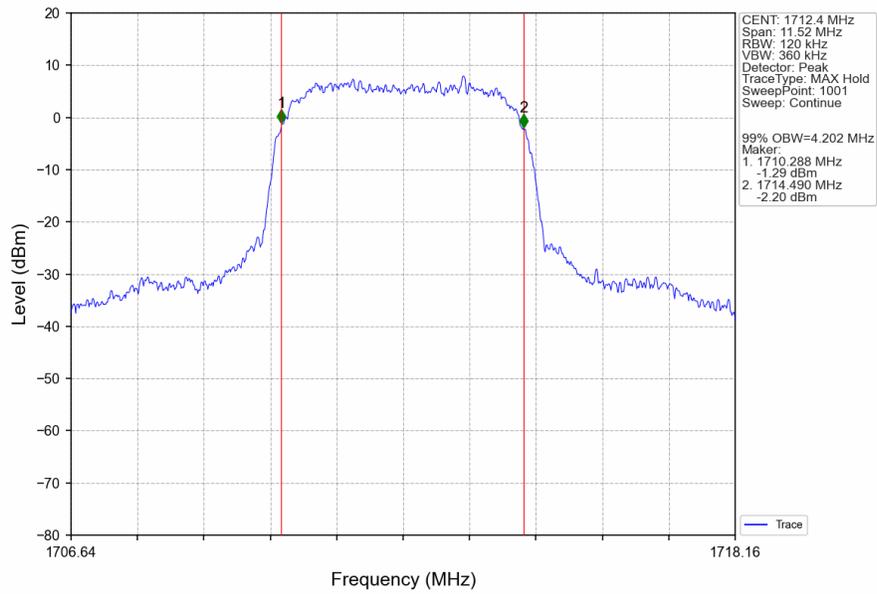
3.2.1 BandIV_OBW



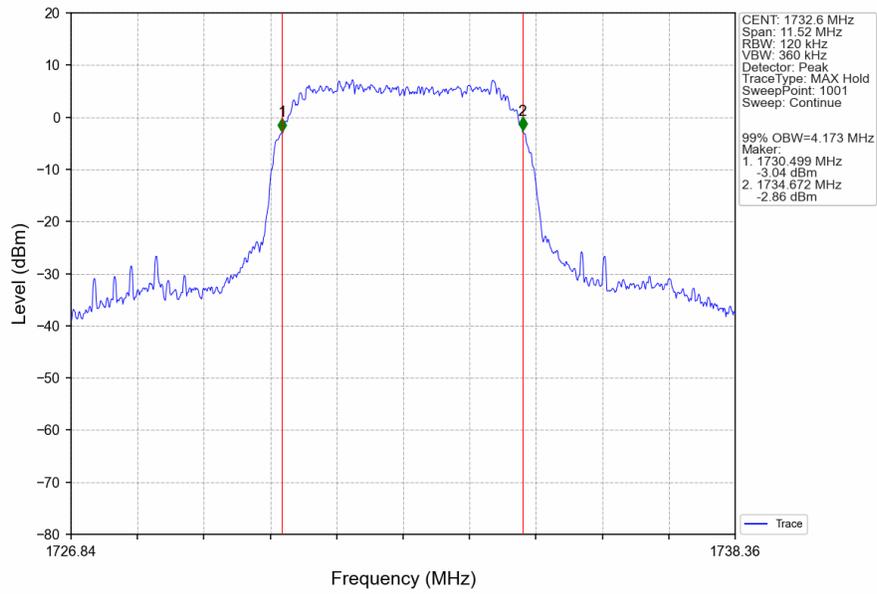
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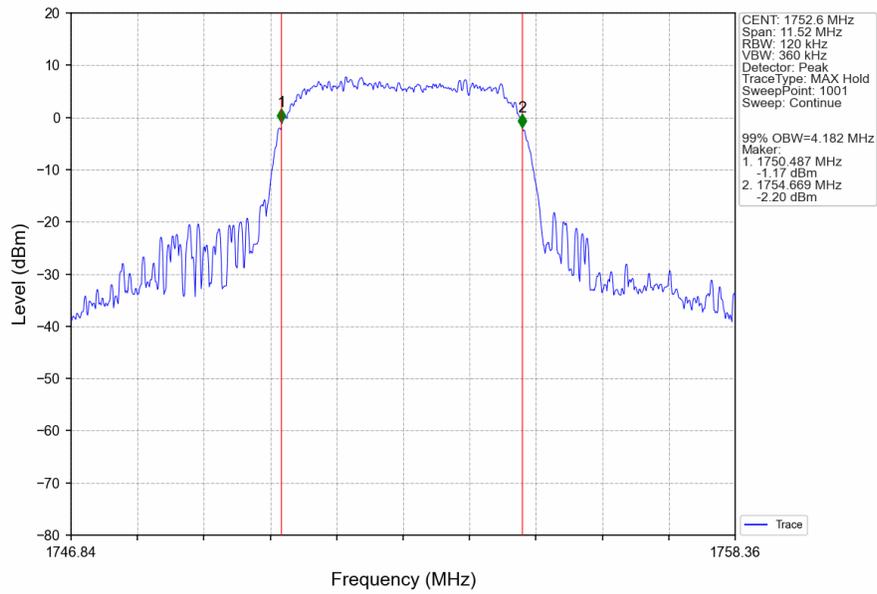
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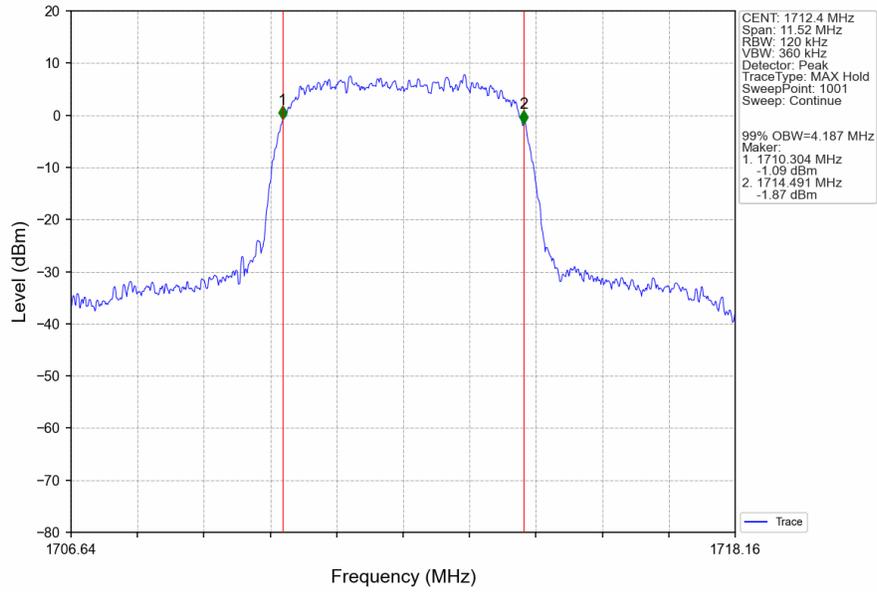
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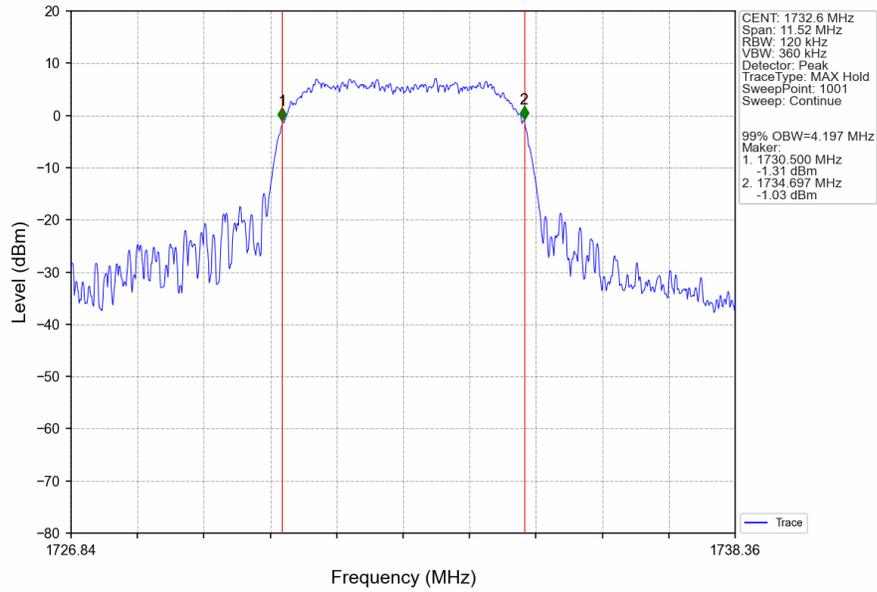
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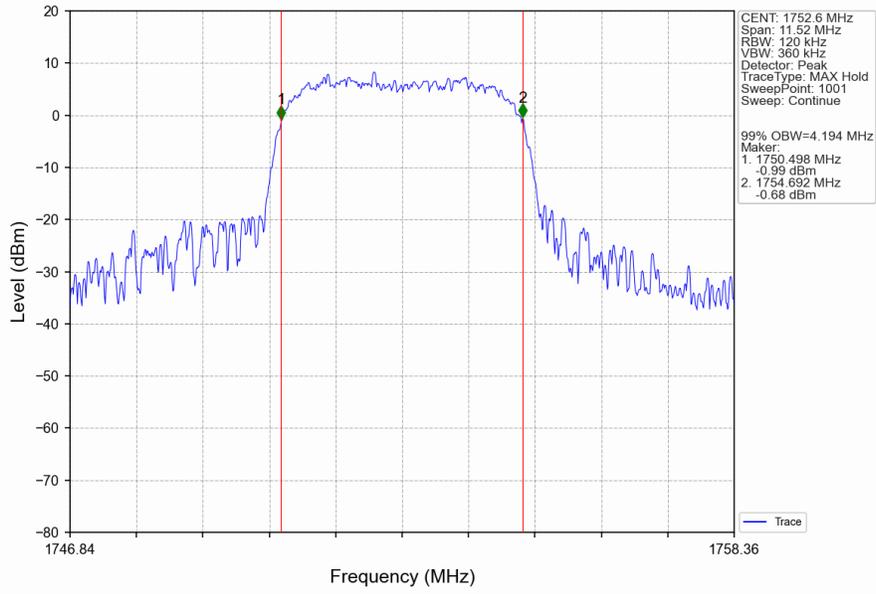
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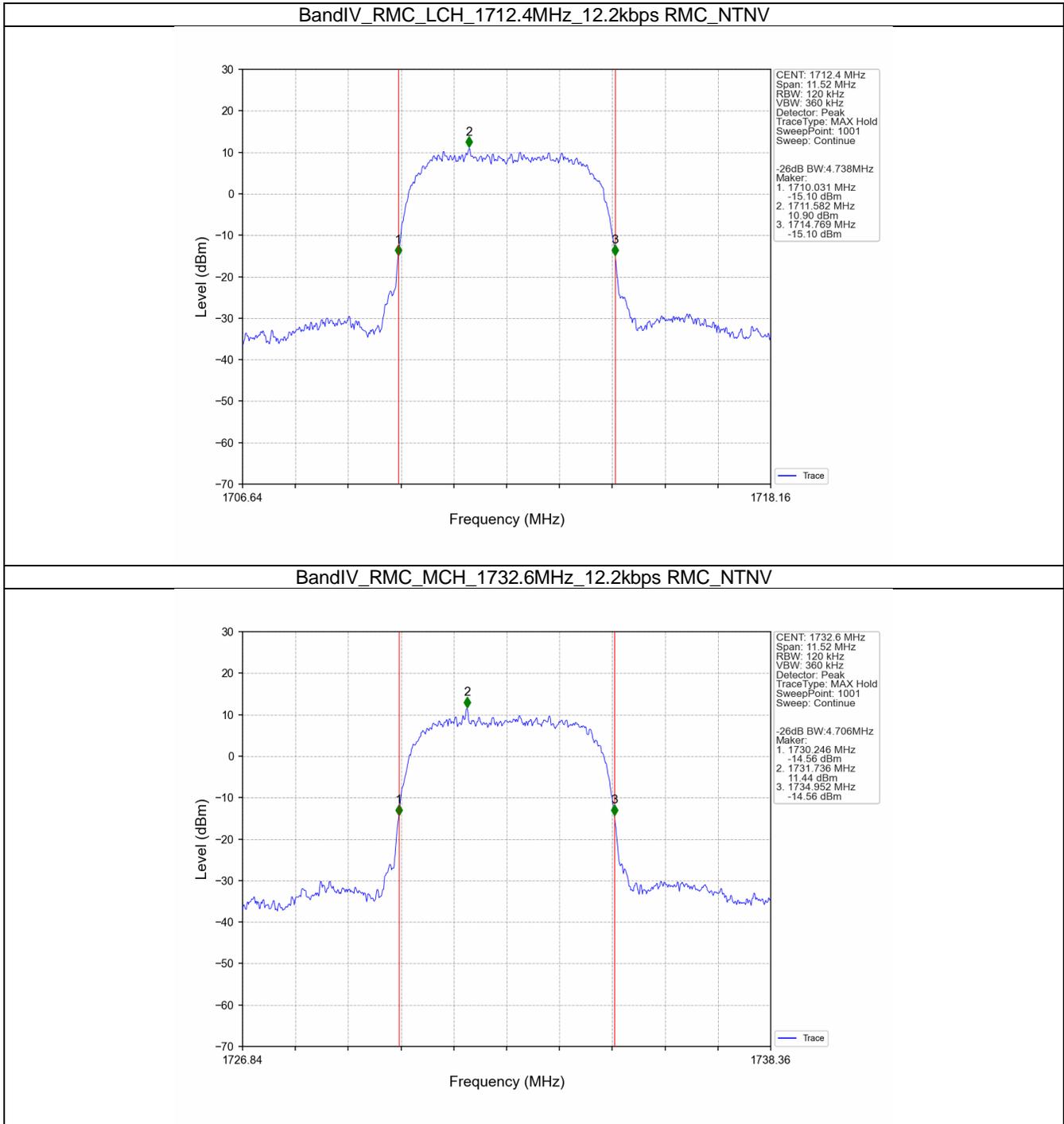
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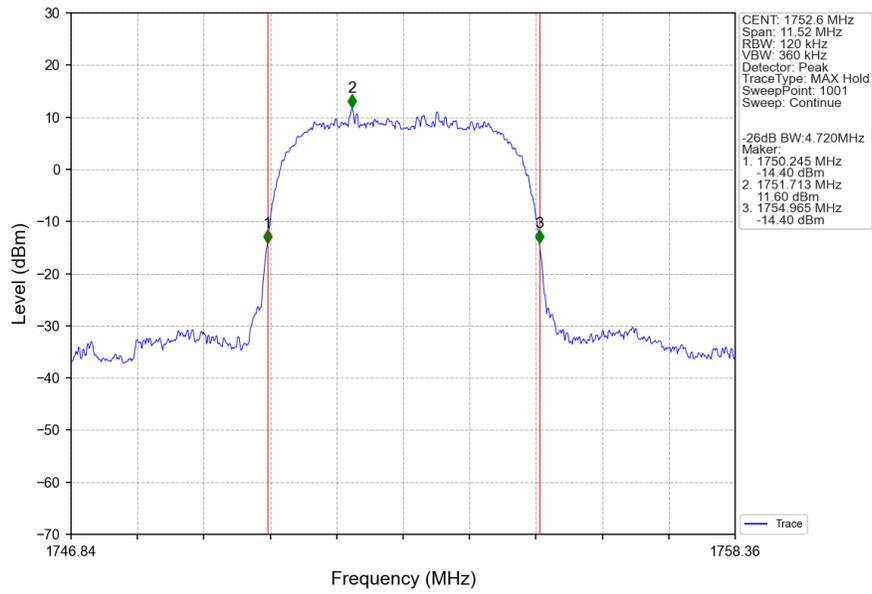
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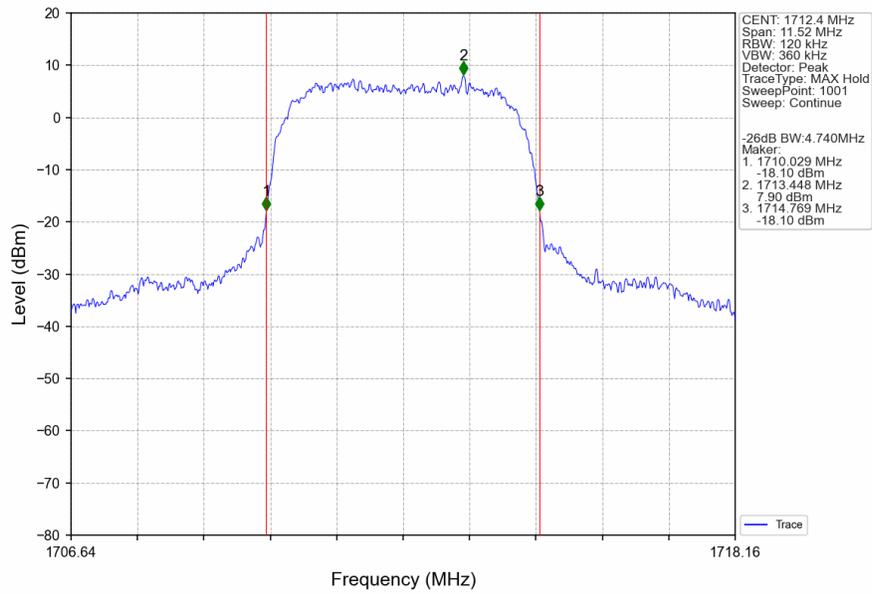
3.2.2 BandIV_XDB



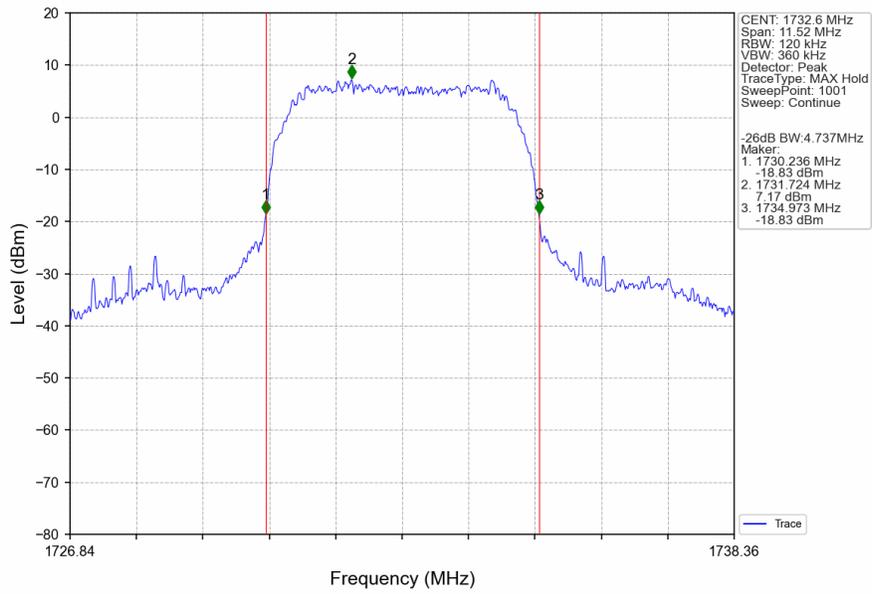
BandIV_RMC_HCH_1752.6MHz_12.2kbps RMC_NTNV



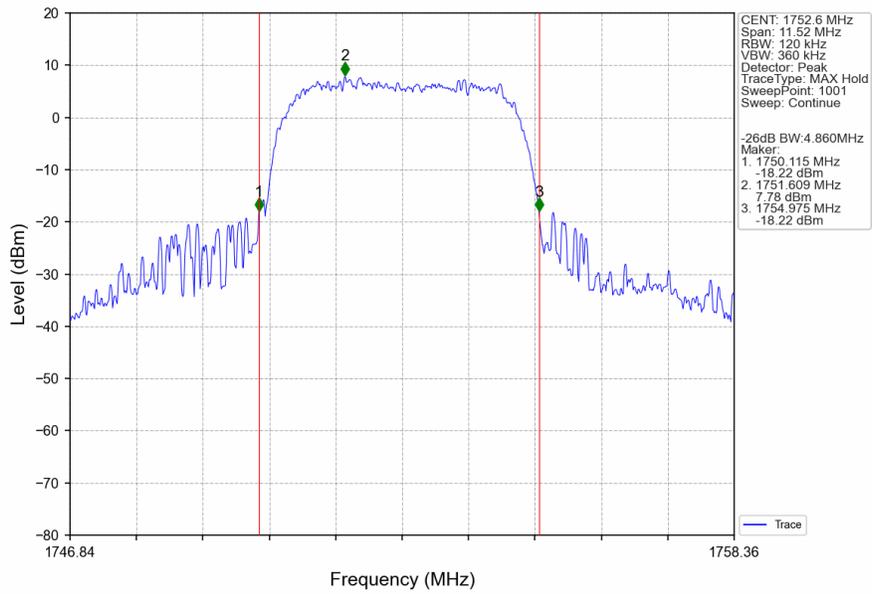
BandIV_HSDPA_LCH_1712.4MHz_Subtest 1_NTNV



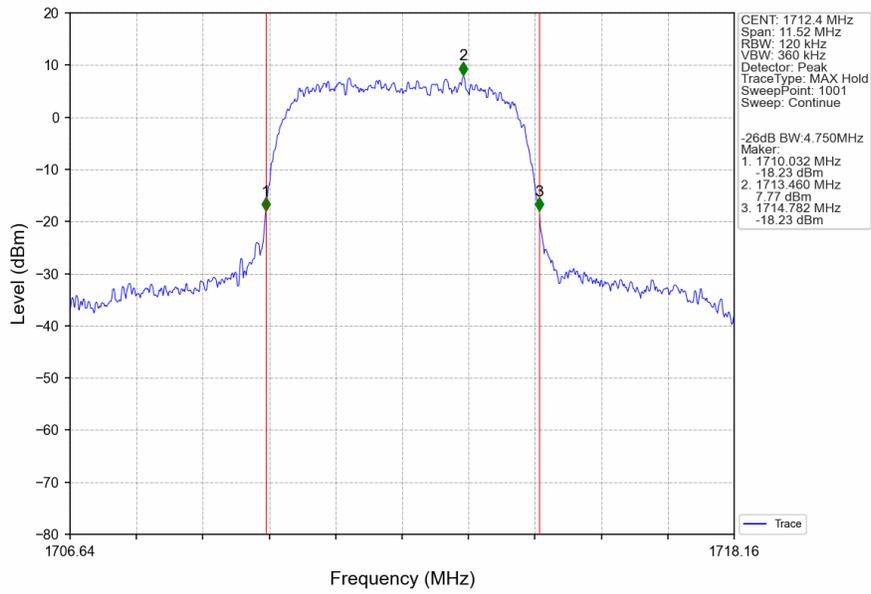
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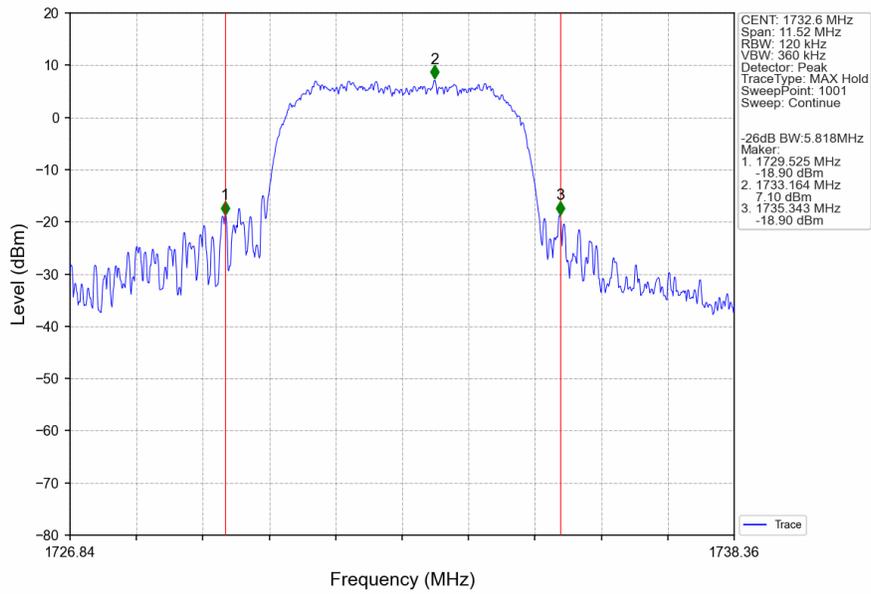
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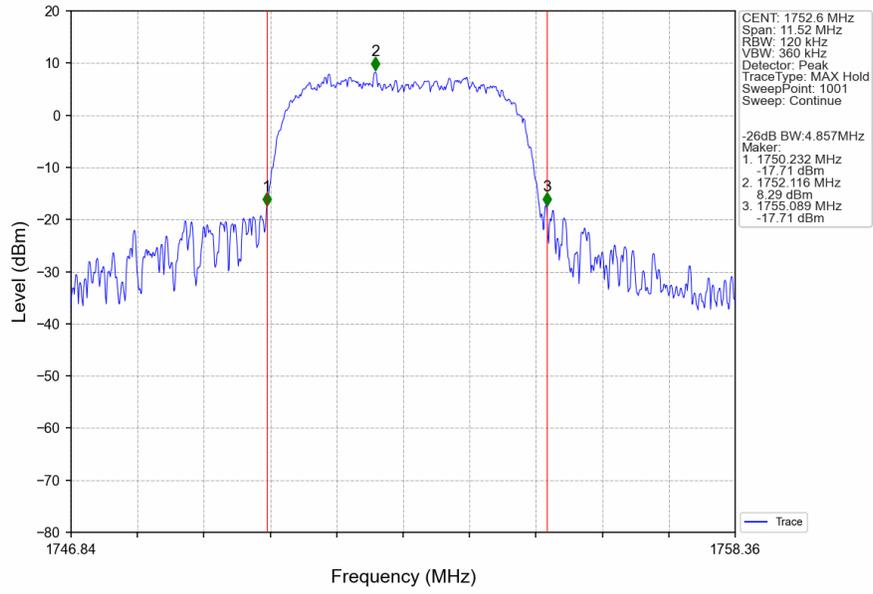
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BandIV_HSUPA_MCH_1732.6MHz_Subtest 1_NTNV



BandIV_HSUPA_HCH_1752.6MHz_Subtest 1_NTNV



4. Peak-Average Ratio

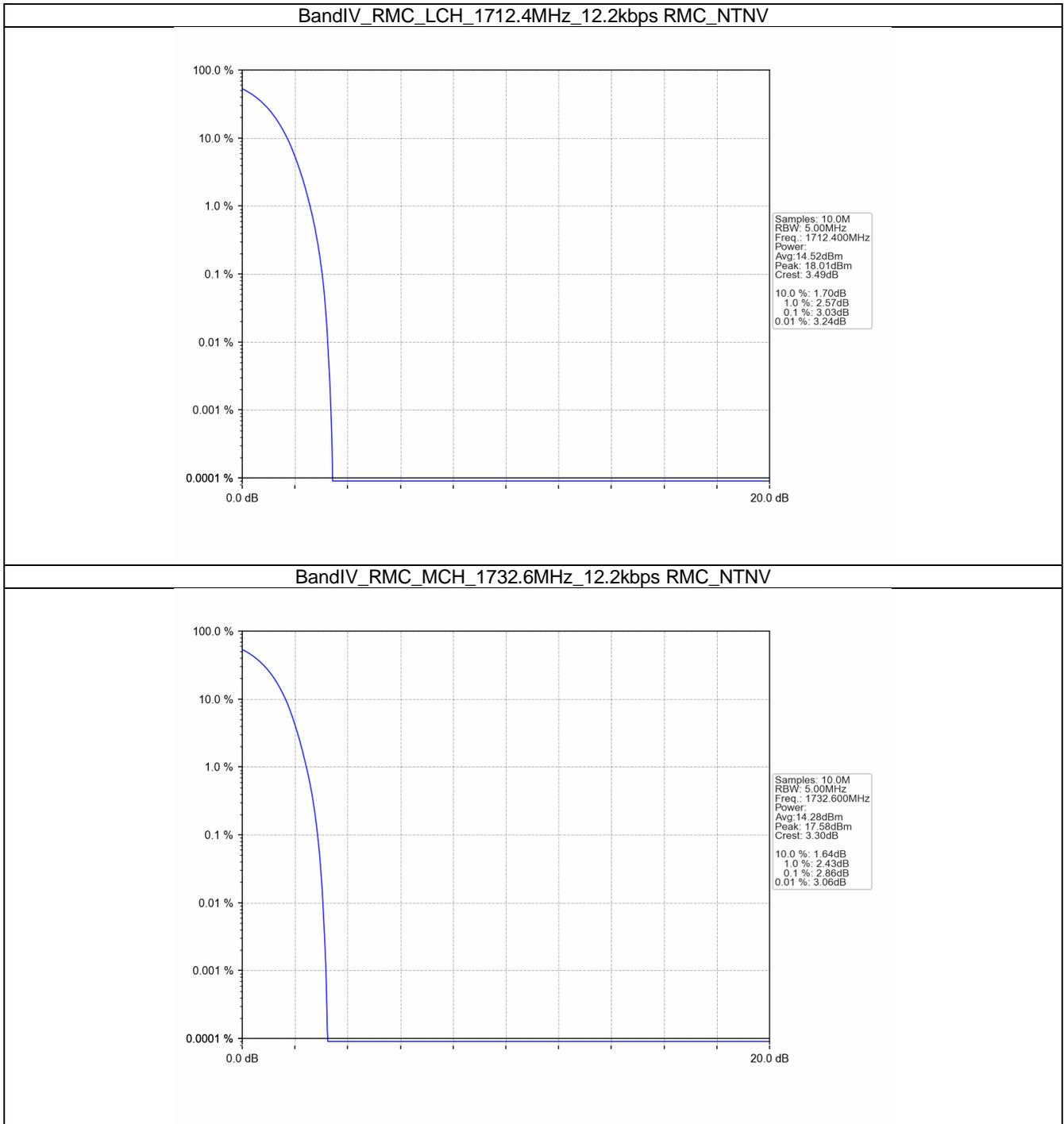
4.1 Test Result

4.1.1 BandIV

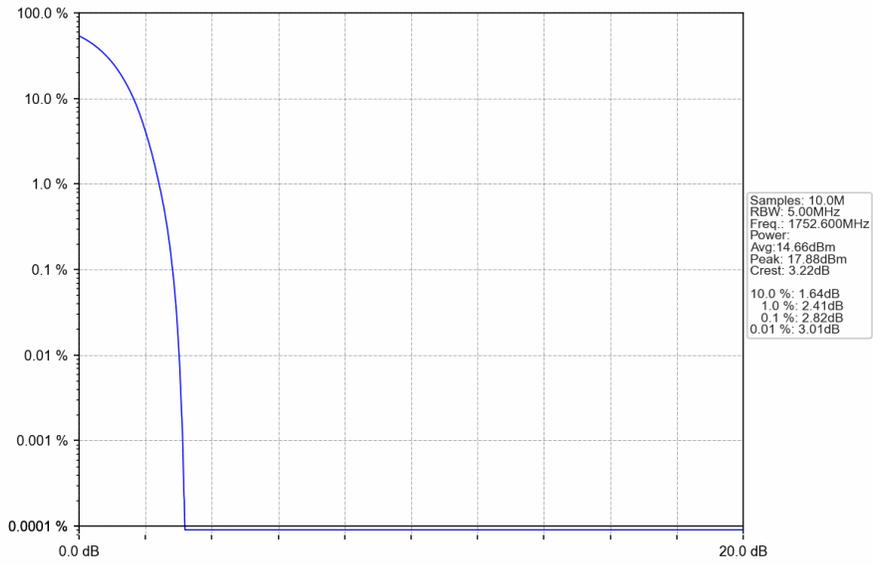
Band: IV						
ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1712.4	3.03	<=13	Pass
			1732.6	2.86	<=13	Pass
			1752.6	2.82	<=13	Pass
	HSDPA	Subtest 1	1712.4	5.81	<=13	Pass
			1732.6	5.73	<=13	Pass
			1752.6	5.66	<=13	Pass
	HSUPA	Subtest 1	1712.4	6.78	<=13	Pass
			1732.6	6.69	<=13	Pass
			1752.6	6.60	<=13	Pass

4.2 Test Graph

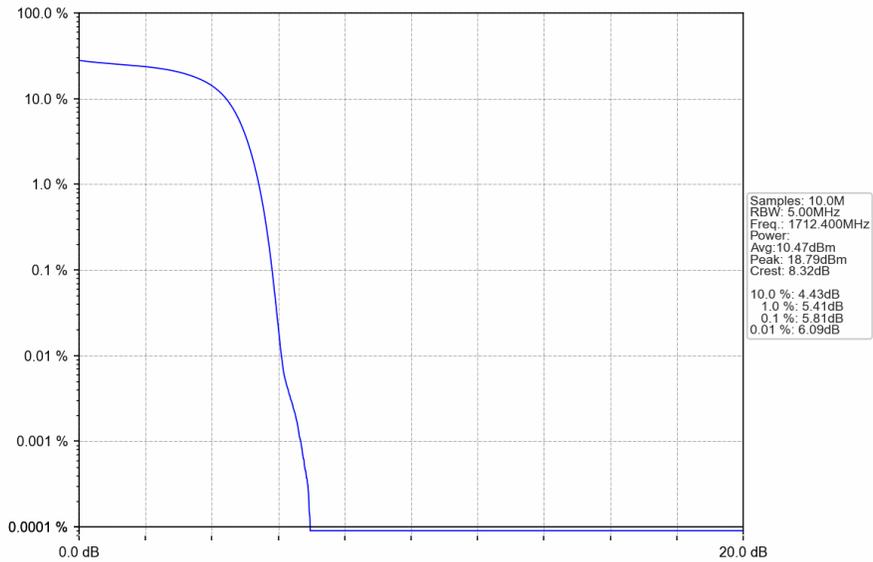
4.2.1 BandIV



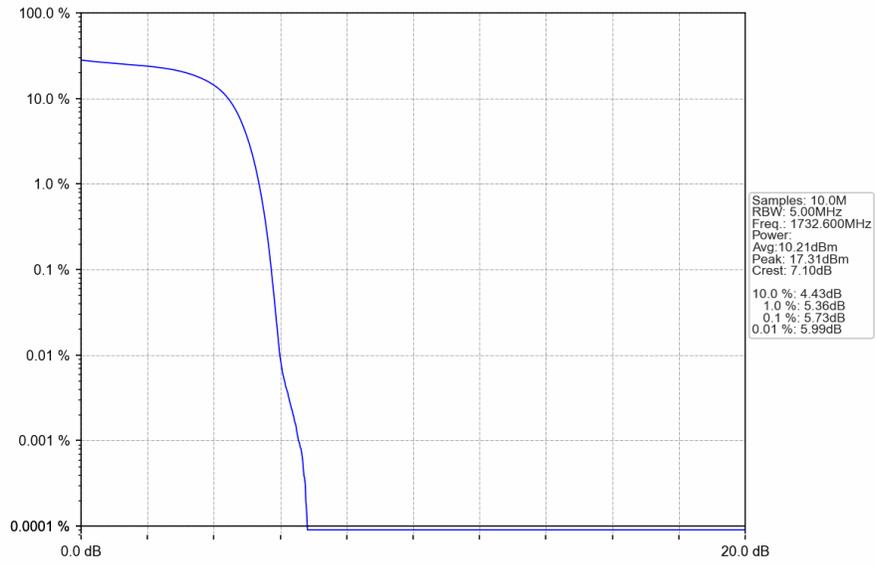
BandIV_RMC_HCH_1752.6MHz_12.2kbps RMC_NTNV



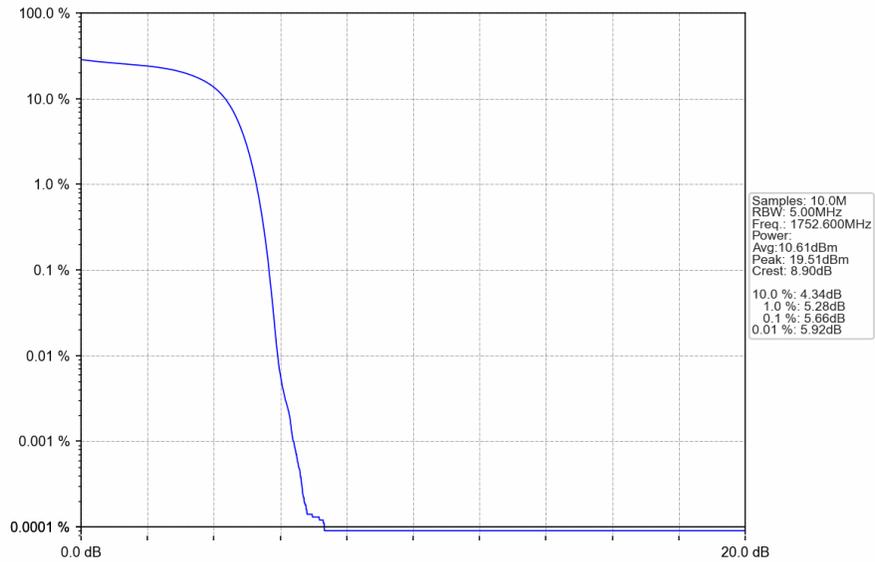
BandIV_HSDPA_LCH_1712.4MHz_Subtest 1_NTNV



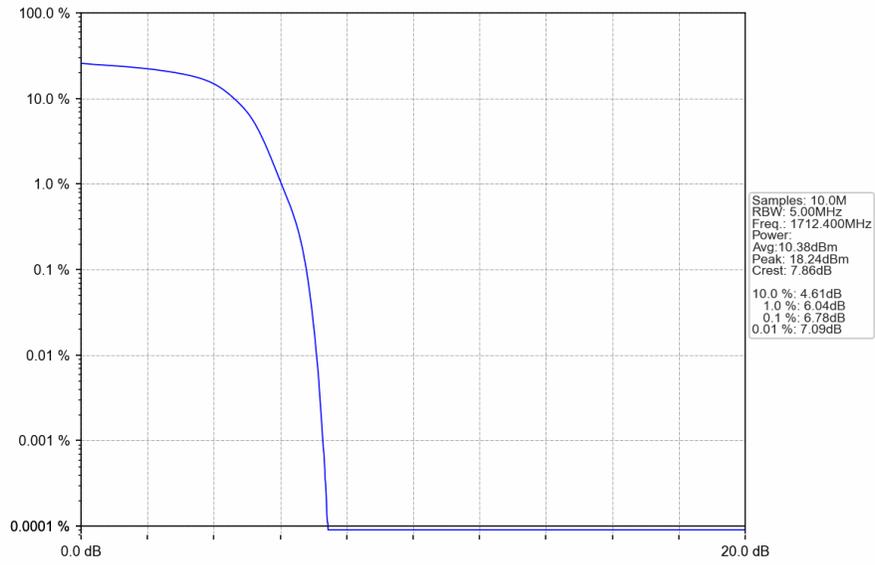
BandIV_HSDPA_MCH_1732.6MHz_Subtest 1_NTNV



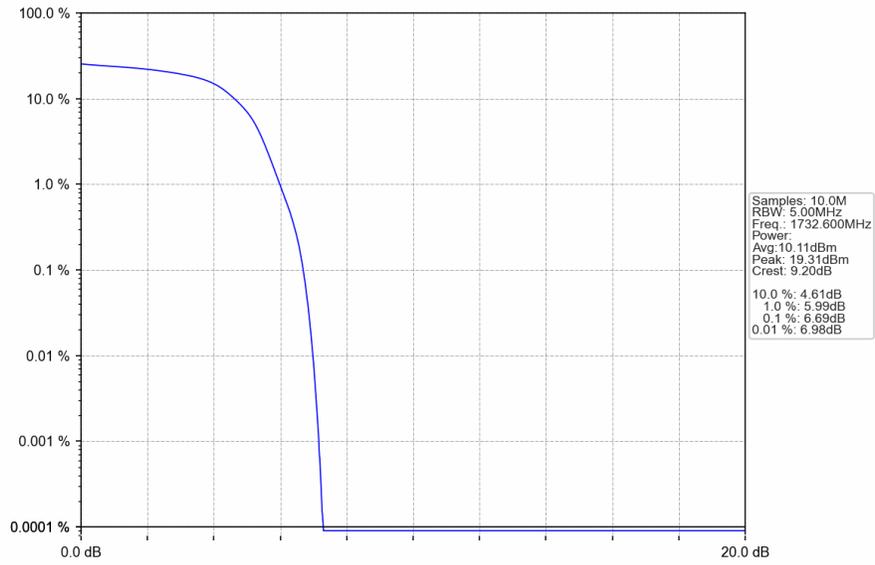
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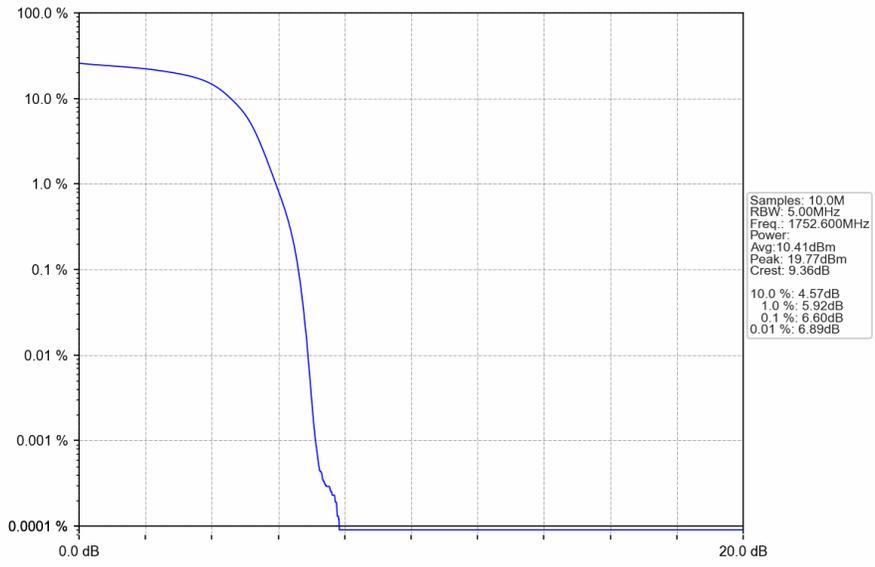
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BandIV_HSUPA_MCH_1732.6MHz_Subtest 1_NTNV



BandIV_HSUPA_HCH_1752.6MHz_Subtest 1_NTNV



5. Spurious Emission

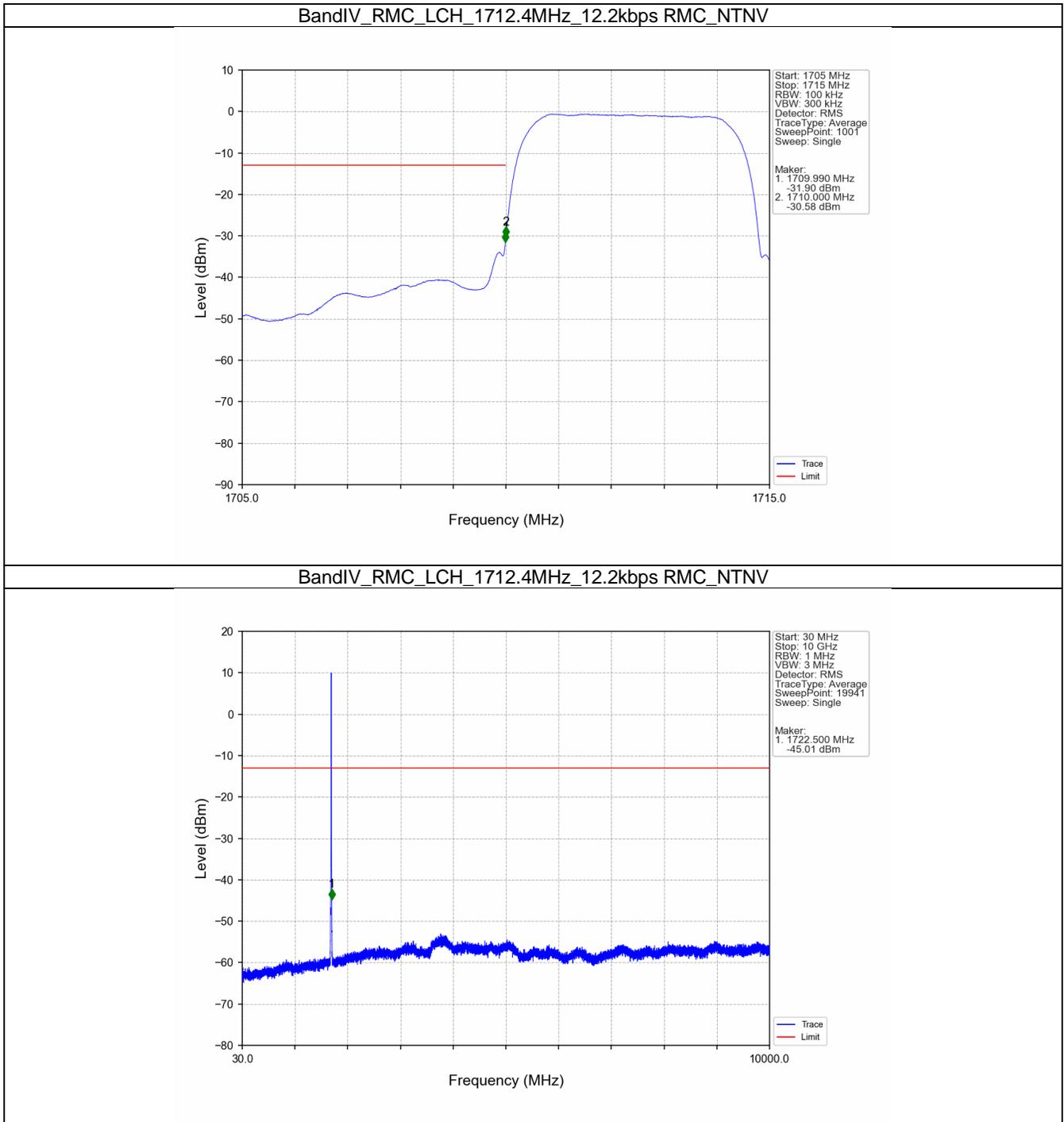
5.1 Test Result

5.1.1 BandIV

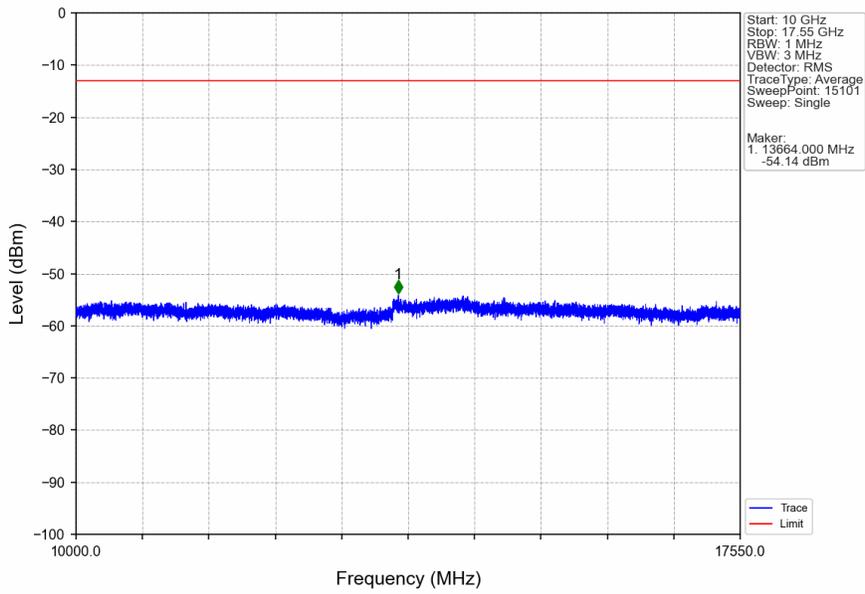
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ENV	Mode		Frequency (MHz)	Spurious Emission		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1712.4	Refer To Test Graph		Pass
			1732.6	Refer To Test Graph		Pass
			1752.6	Refer To Test Graph		Pass
	HSDPA	Subtest 1	1712.4	Refer To Test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

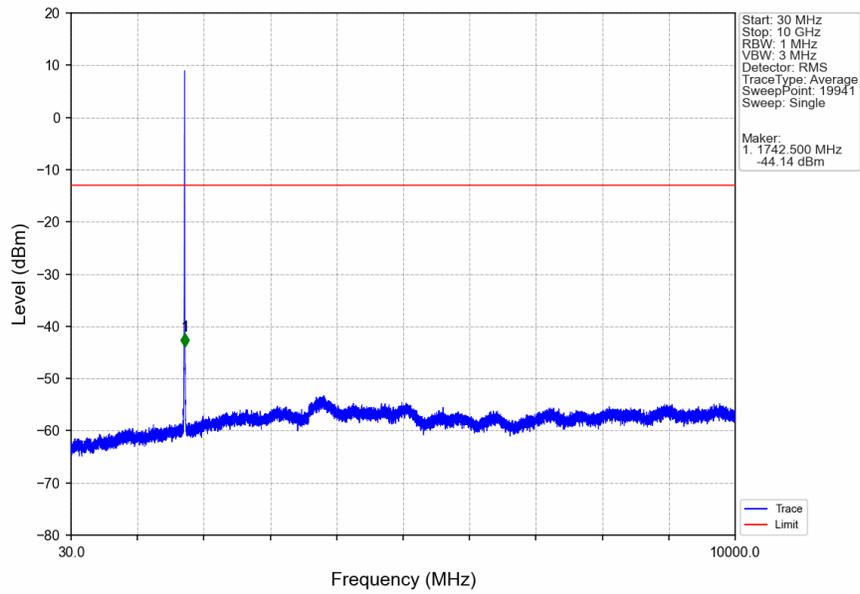
5.2.1 BandIV



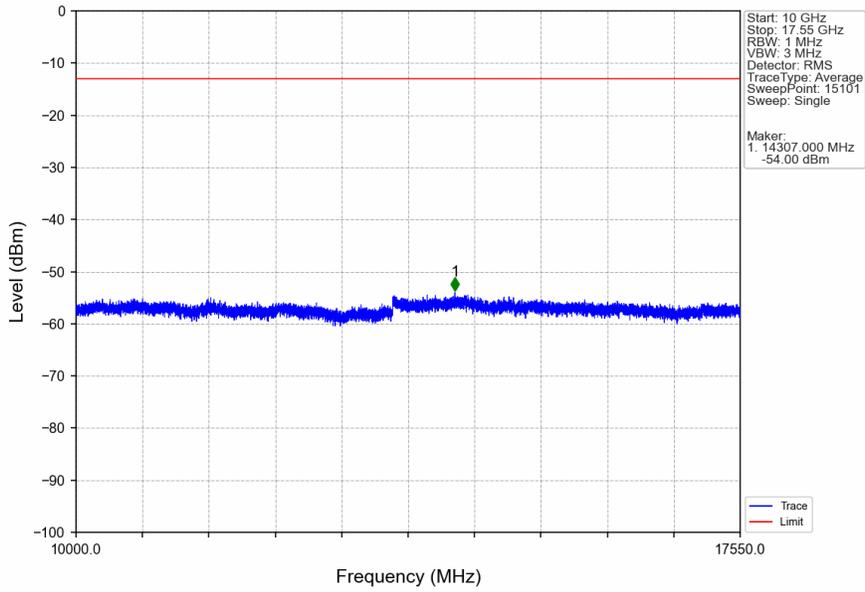
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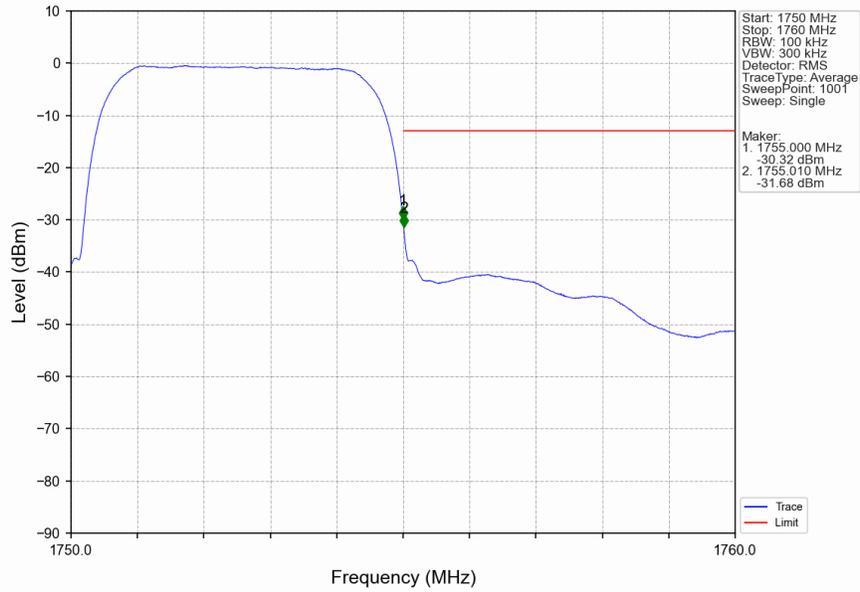
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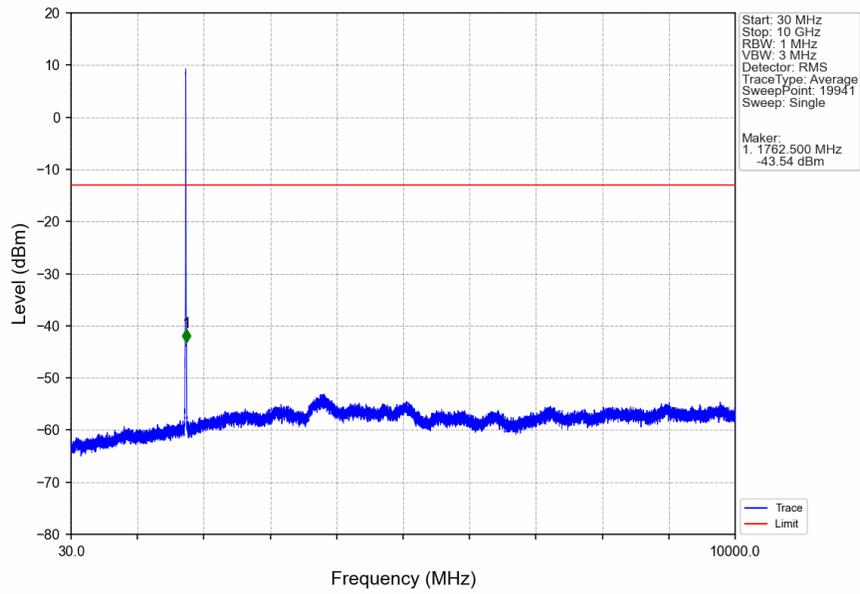
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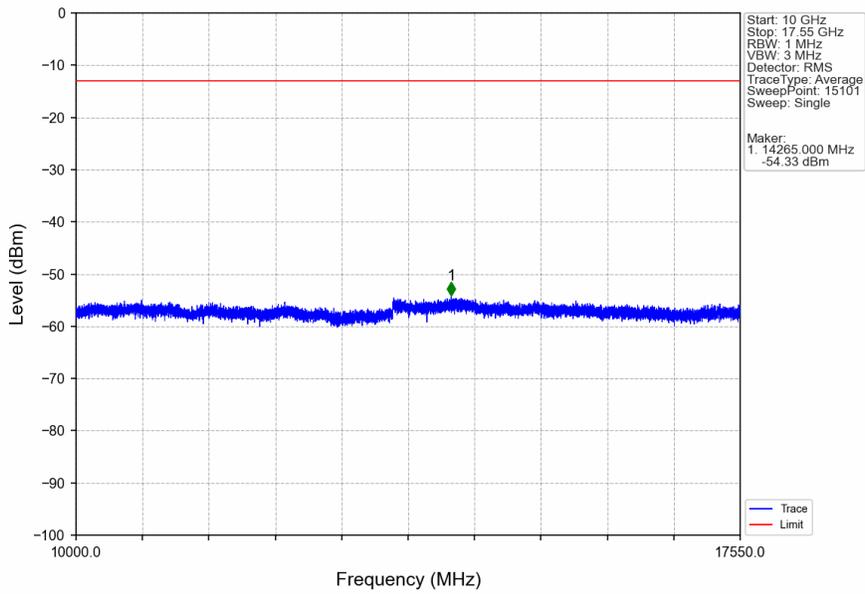
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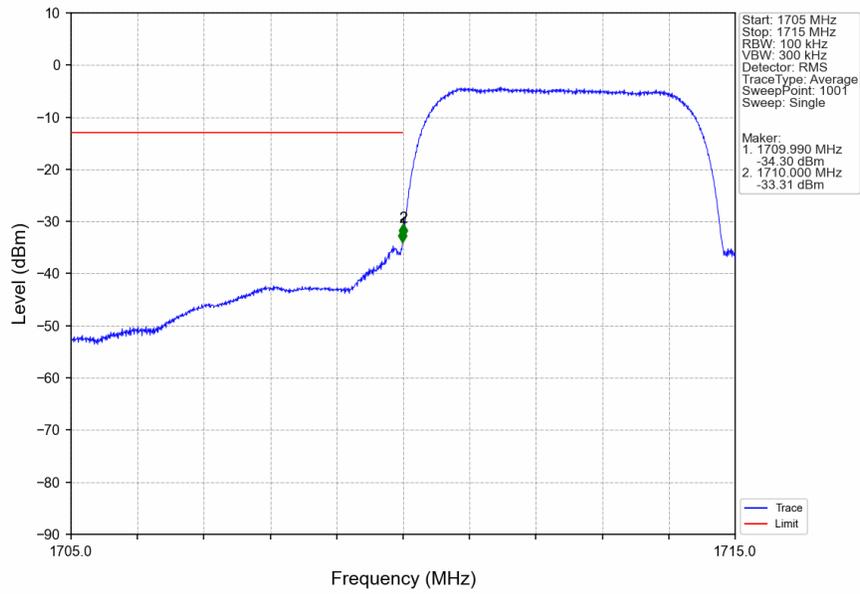
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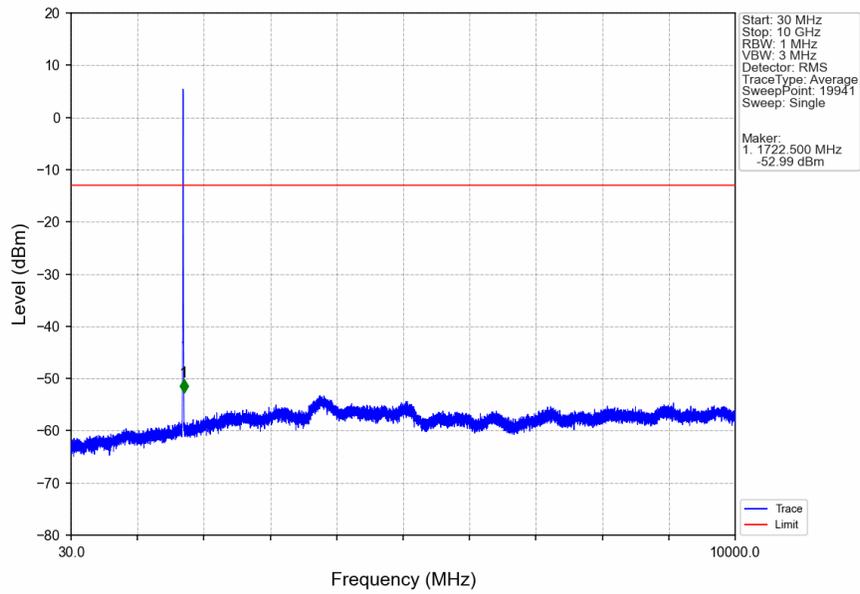
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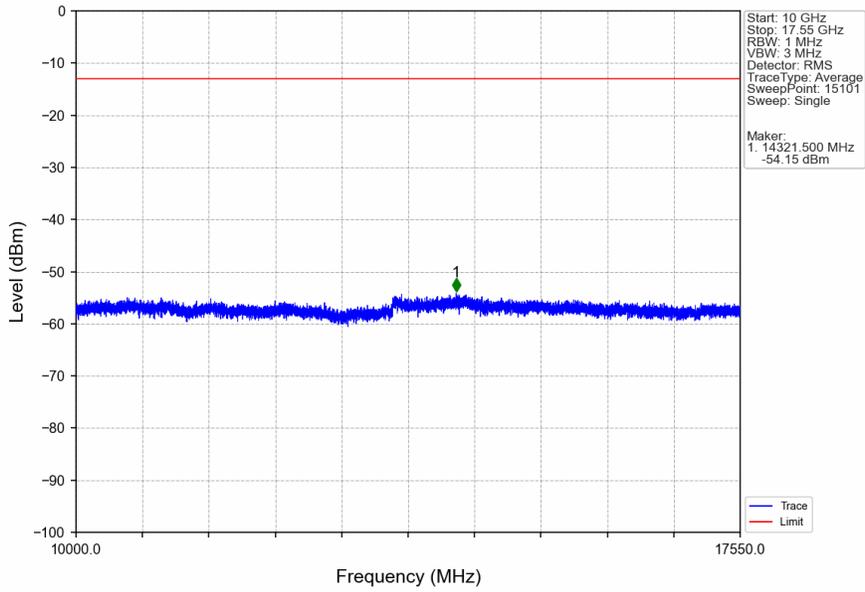
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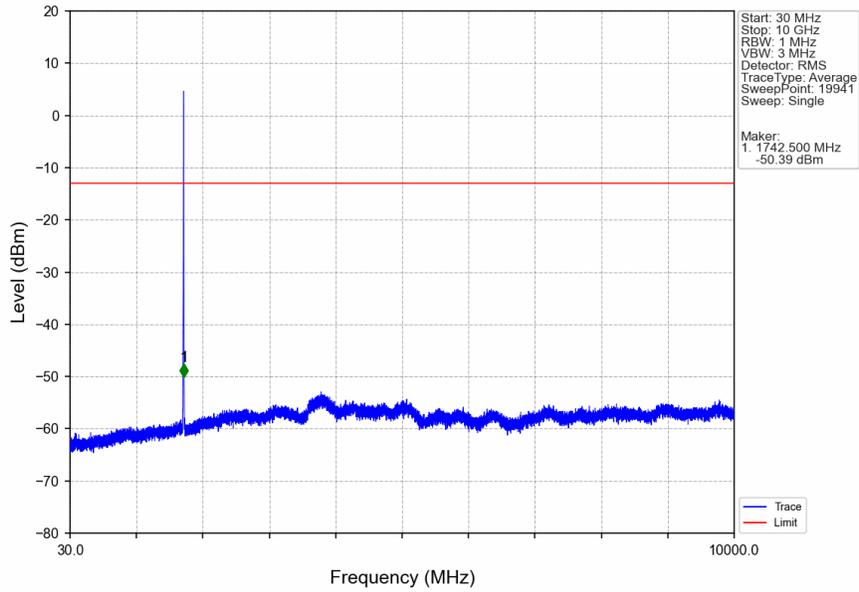
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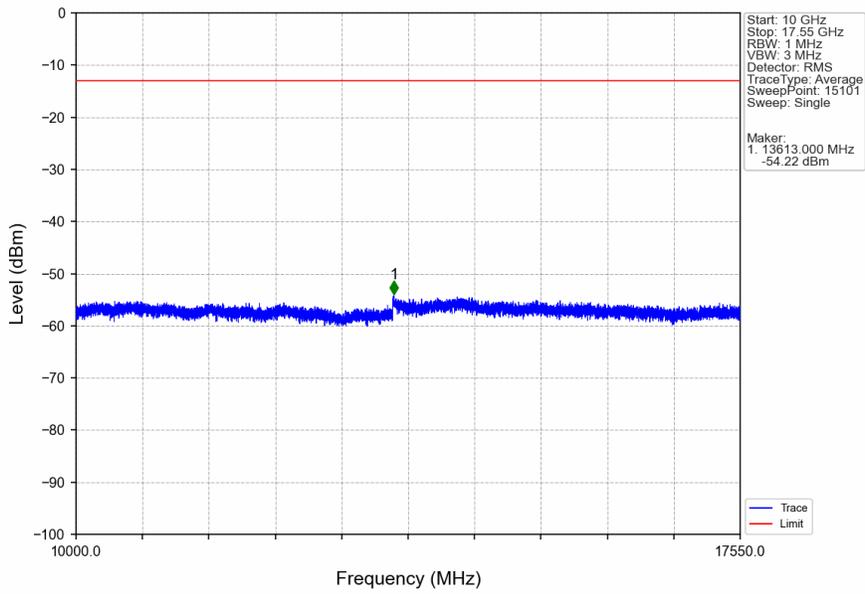
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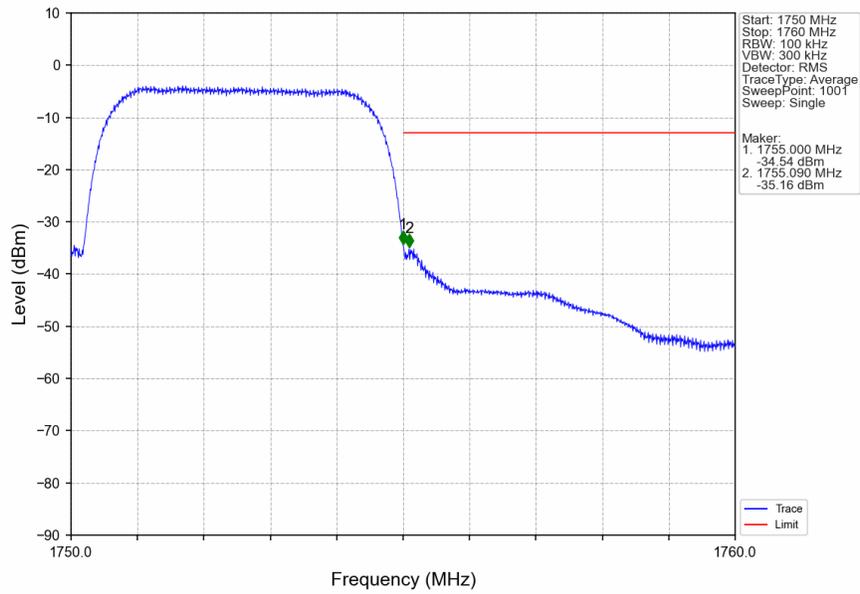
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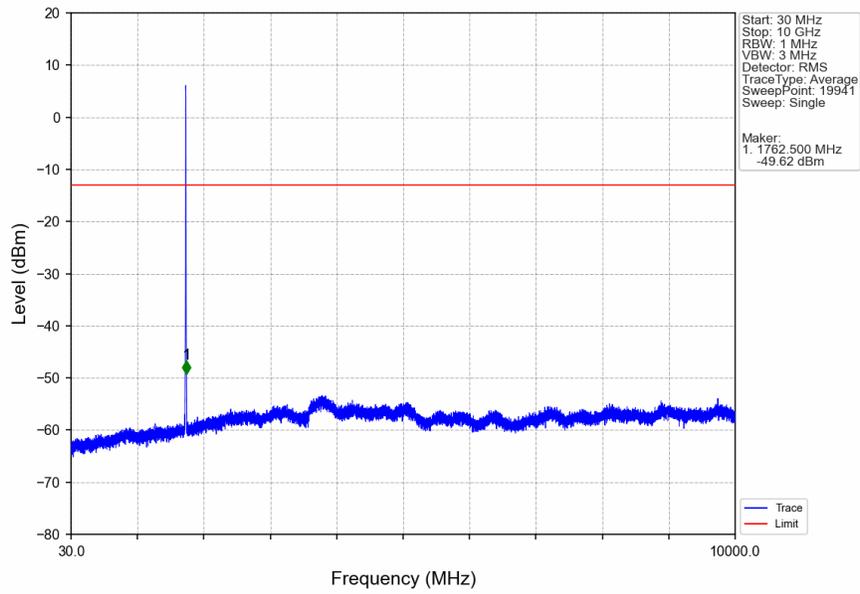
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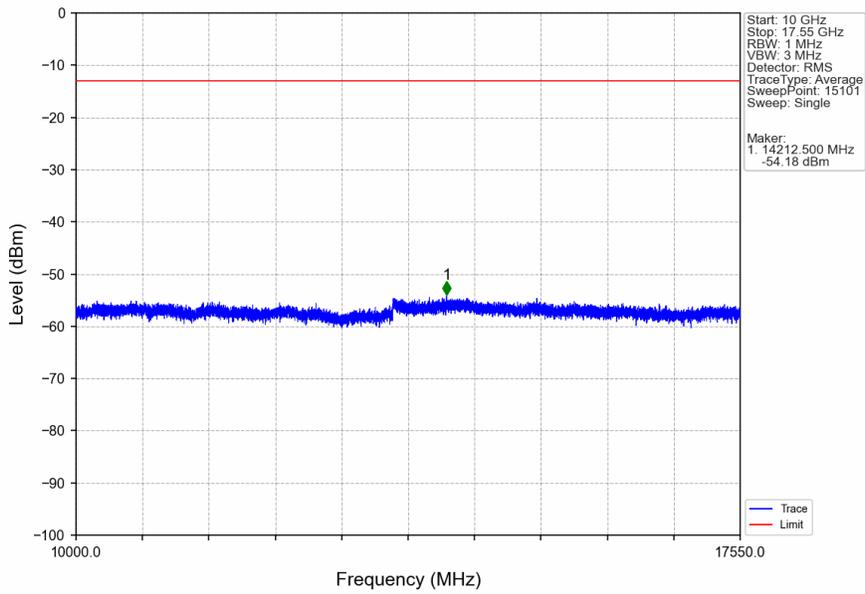
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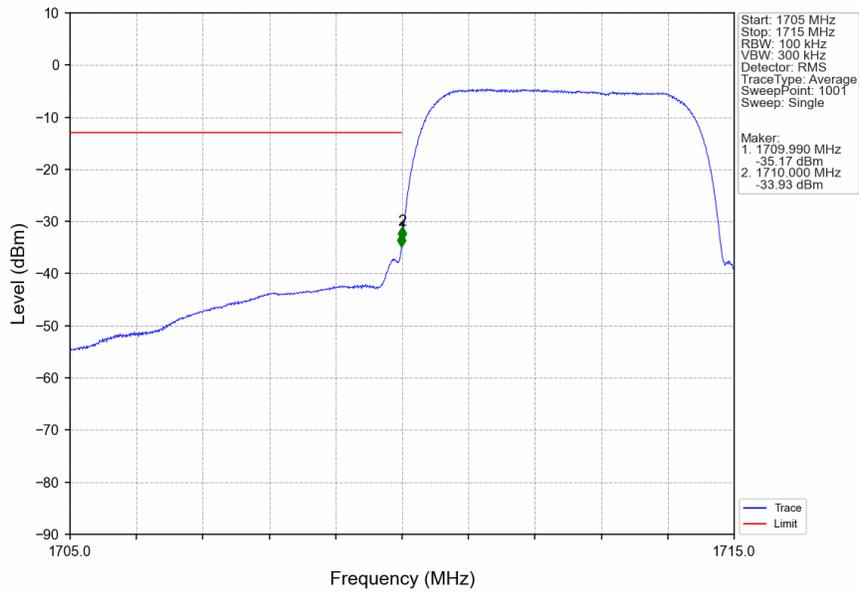
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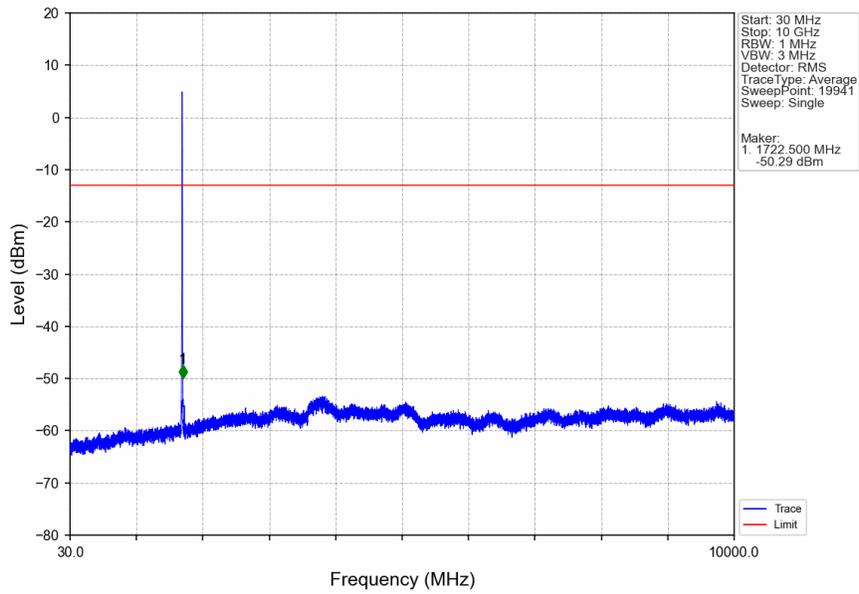
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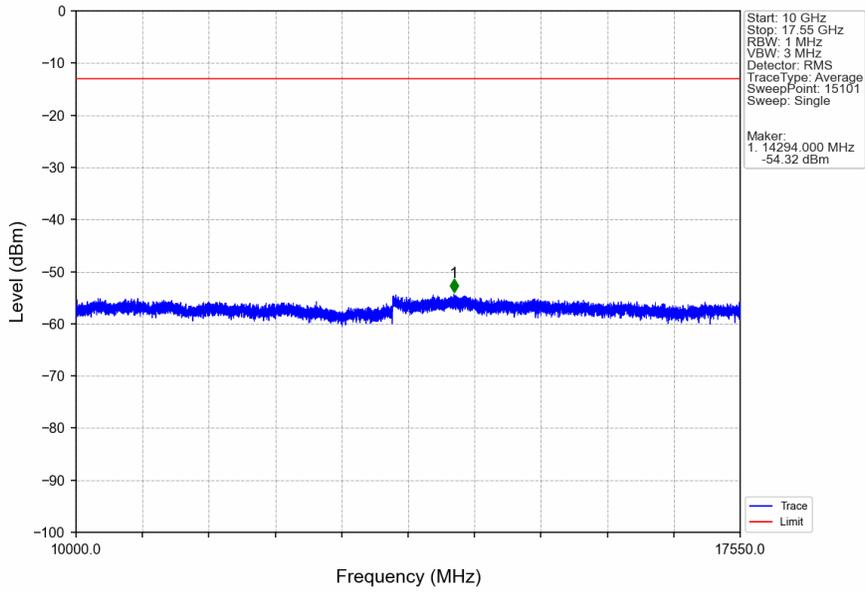
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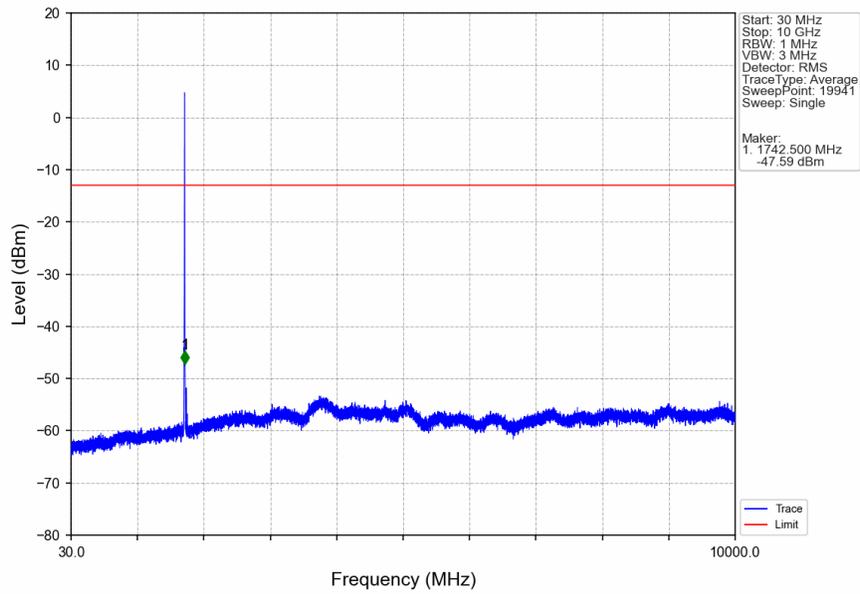
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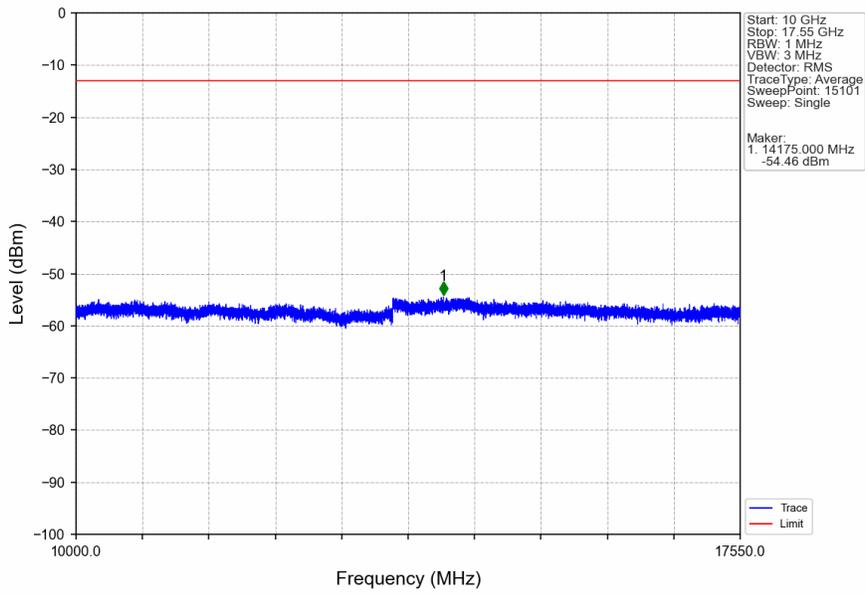
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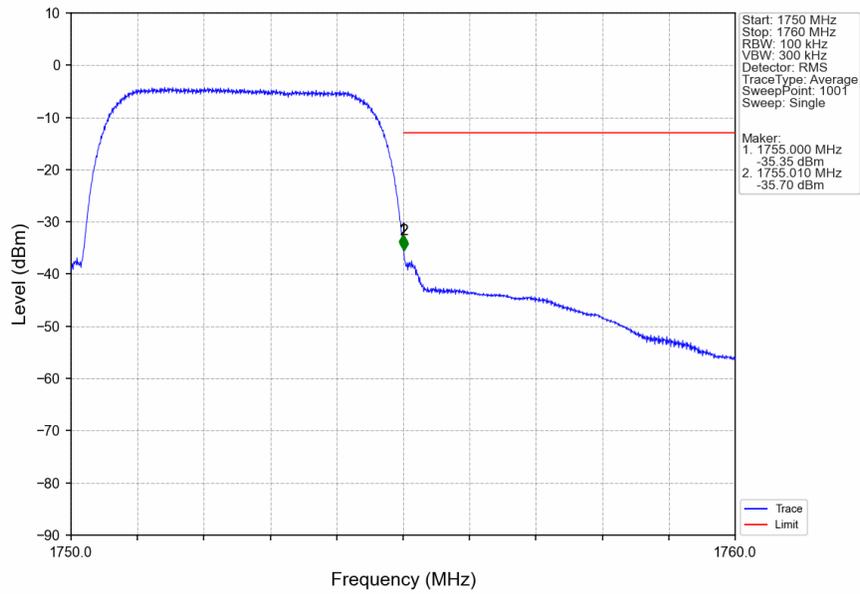
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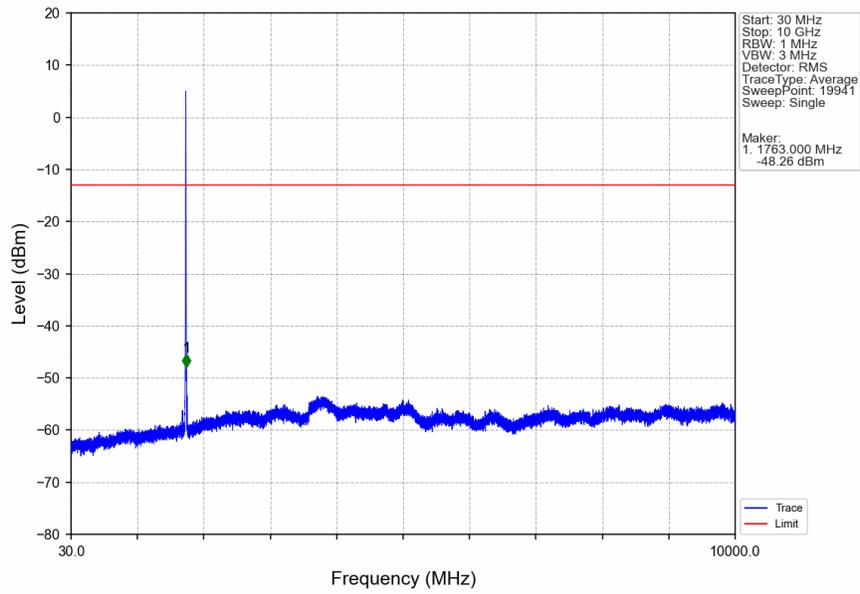
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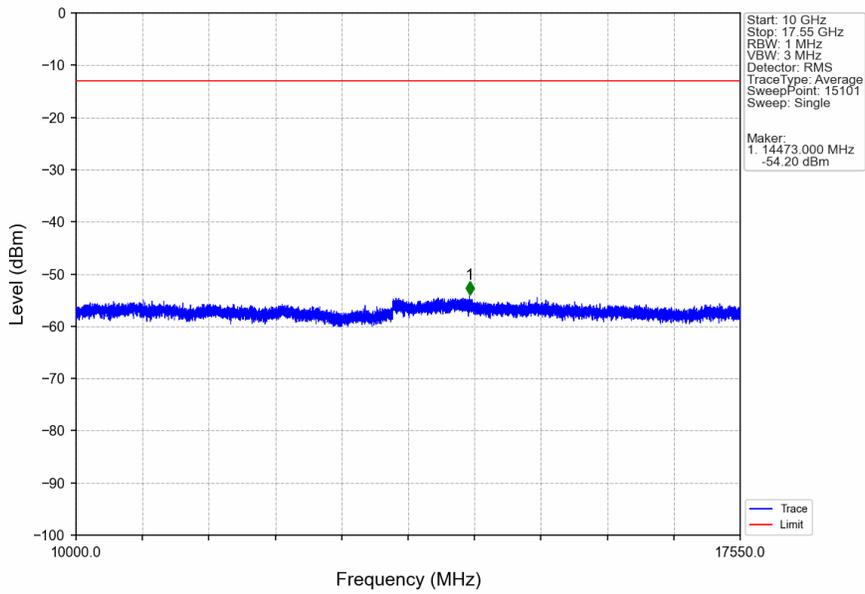
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BandIV_HSUPA_HCH_1752.6MHz_Subtest 1_NTNV



BandIV_HSUPA_HCH_1752.6MHz_Subtest 1_NTNV



6. Field Strength of Spurious Radiation

WCDMA Band IV ANT2-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	-67.06	-13	-54.06	-71.68	3.36	7.98	Horizontal	Pass
5137.2	-63.06	-13	-50.06	-68.68	4.61	10.23	Horizontal	Pass
6849.6	-61.39	-13	-48.39	-67.43	4.9	10.94	Horizontal	Pass
3424.8	-66.72	-13	-53.72	-71.34	3.36	7.98	Vertical	Pass
5137.2	-63.25	-13	-50.25	-68.87	4.61	10.23	Vertical	Pass
6849.6	-61.62	-13	-48.62	-67.66	4.9	10.94	Vertical	Pass

WCDMA Band IV ANT2-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	-66.81	-13	-53.81	-71.51	3.38	8.08	Horizontal	Pass
5197.8	-62.63	-13	-49.63	-68.26	4.63	10.26	Horizontal	Pass
6930.4	-61.09	-13	-48.09	-67.22	4.91	11.04	Horizontal	Pass
3465.2	-66.89	-13	-53.89	-71.59	3.38	8.08	Vertical	Pass
5197.8	-62.94	-13	-49.94	-68.57	4.63	10.26	Vertical	Pass
6930.4	-61.15	-13	-48.15	-67.28	4.91	11.04	Vertical	Pass

WCDMA Band IV ANT2-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	-66.87	-13	-53.87	-71.65	3.4	8.18	Horizontal	Pass
5257.8	-63.2	-13	-50.2	-68.85	4.65	10.3	Horizontal	Pass
7010.4	-61.23	-13	-48.23	-67.45	4.92	11.14	Horizontal	Pass
3505.2	-66.95	-13	-53.95	-71.73	3.4	8.18	Vertical	Pass
5257.8	-63.17	-13	-50.17	-68.82	4.65	10.3	Vertical	Pass
7010.4	-61.79	-13	-48.79	-68.01	4.92	11.14	Vertical	Pass