



SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch

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Appendix B.4

WCDMA Band IV



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Shenzhen Branch

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1. Effective (Isotropic) Radiated Power Output Data

1.1 Band IV_EIRP

1.1.1 Test Result_Ant1

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	24.64	0.00	24.64	<=30	Pass
			1732.6	24.63	0.00	24.63	<=30	Pass
			1752.6	24.56	0.00	24.56	<=30	Pass
	HSDPA	Subtest 1	1712.4	22.43	0.00	22.43	<=30	Pass
		Subtest 2	1712.4	22.40	0.00	22.40	<=30	Pass
		Subtest 3	1712.4	22.42	0.00	22.42	<=30	Pass
		Subtest 4	1712.4	22.44	0.00	22.44	<=30	Pass
		Subtest 1	1732.6	22.36	0.00	22.36	<=30	Pass
		Subtest 2	1732.6	22.35	0.00	22.35	<=30	Pass
		Subtest 3	1732.6	22.39	0.00	22.39	<=30	Pass
		Subtest 4	1732.6	22.40	0.00	22.40	<=30	Pass
		Subtest 1	1752.6	22.32	0.00	22.32	<=30	Pass
		Subtest 2	1752.6	22.30	0.00	22.30	<=30	Pass
		Subtest 3	1752.6	22.34	0.00	22.34	<=30	Pass
		Subtest 4	1752.6	22.34	0.00	22.34	<=30	Pass
	HSUPA	Subtest 1	1712.4	20.61	0.00	20.61	<=30	Pass
		Subtest 2	1712.4	21.04	0.00	21.04	<=30	Pass
		Subtest 3	1712.4	20.81	0.00	20.81	<=30	Pass
		Subtest 4	1712.4	21.03	0.00	21.03	<=30	Pass
		Subtest 5	1712.4	21.04	0.00	21.04	<=30	Pass
		Subtest 1	1732.6	20.78	0.00	20.78	<=30	Pass
		Subtest 2	1732.6	20.76	0.00	20.76	<=30	Pass
		Subtest 3	1732.6	20.76	0.00	20.76	<=30	Pass
		Subtest 4	1732.6	20.75	0.00	20.75	<=30	Pass
		Subtest 5	1732.6	20.46	0.00	20.46	<=30	Pass
		Subtest 1	1752.6	20.68	0.00	20.68	<=30	Pass
		Subtest 2	1752.6	20.41	0.00	20.41	<=30	Pass
		Subtest 3	1752.6	20.86	0.00	20.86	<=30	Pass
		Subtest 4	1752.6	20.42	0.00	20.42	<=30	Pass
		Subtest 5	1752.6	20.87	0.00	20.87	<=30	Pass

Note1: EIRP=Conducted Power+Antenna Gain



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2. Frequency Stability

2.1 Band IV

2.1.1 Test Result

Band IV							
Network	Frequency (MHz)	Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
					Result	Limit	
RMC	1712.4	20	3.6	-14.169	-0.0083	/	Pass
			3.84	-14.434	-0.0084	/	Pass
			4.3	-15.256	-0.0089	/	Pass
		-30	3.84	-19.670	-0.0115	/	Pass
		-20	3.84	-14.749	-0.0086	/	Pass
		-10	3.84	-16.108	-0.0094	/	Pass
		0	3.84	-17.803	-0.0104	/	Pass
		10	3.84	-20.056	-0.0117	/	Pass
		30	3.84	-14.892	-0.0087	/	Pass
		40	3.84	-18.439	-0.0108	/	Pass
	1732.6	20	3.6	-3.362	-0.0019	/	Pass
			3.84	-10.443	-0.0060	/	Pass
			4.3	-10.858	-0.0063	/	Pass
		-30	3.84	-11.258	-0.0065	/	Pass
		-20	3.84	-13.540	-0.0078	/	Pass
		-10	3.84	-12.696	-0.0073	/	Pass
		0	3.84	-9.184	-0.0053	/	Pass
		10	3.84	-11.587	-0.0067	/	Pass
		30	3.84	-17.345	-0.0100	/	Pass
		40	3.84	-17.030	-0.0098	/	Pass
	1752.6	20	3.6	-6.022	-0.0034	/	Pass
			3.84	-10.114	-0.0058	/	Pass
			4.3	-9.949	-0.0057	/	Pass
		-30	3.84	-7.846	-0.0045	/	Pass
		-20	3.84	-10.643	-0.0061	/	Pass
		-10	3.84	-12.610	-0.0072	/	Pass
		0	3.84	-12.460	-0.0071	/	Pass
		10	3.84	-10.736	-0.0061	/	Pass
		30	3.84	-6.022	-0.0034	/	Pass
		40	3.84	-9.098	-0.0052	/	Pass
HSDPA	1712.4	20	3.6	-30.470	-0.0178	/	Pass
			3.84	-26.321	-0.0154	/	Pass
			4.3	-26.493	-0.0155	/	Pass
		-30	3.84	-24.426	-0.0143	/	Pass
		-20	3.84	-25.263	-0.0148	/	Pass
		-10	3.84	-24.498	-0.0143	/	Pass



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		0	3.84	-22.881	-0.0134	/	Pass
		10	3.84	-25.742	-0.0150	/	Pass
		30	3.84	-20.578	-0.0120	/	Pass
		40	3.84	-20.370	-0.0119	/	Pass
		50	3.84	-21.007	-0.0123	/	Pass
	1732.6	20	3.6	-12.016	-0.0069	/	Pass
			3.84	-21.794	-0.0126	/	Pass
			4.3	-22.824	-0.0132	/	Pass
		-30	3.84	-20.356	-0.0117	/	Pass
		-20	3.84	-20.428	-0.0118	/	Pass
		-10	3.84	-20.685	-0.0119	/	Pass
		0	3.84	-21.250	-0.0123	/	Pass
		10	3.84	-20.020	-0.0116	/	Pass
		30	3.84	-19.848	-0.0115	/	Pass
		40	3.84	-22.030	-0.0127	/	Pass
		50	3.84	-19.262	-0.0111	/	Pass
	1752.6	20	3.6	-24.354	-0.0139	/	Pass
			3.84	-19.770	-0.0113	/	Pass
			4.3	-19.605	-0.0112	/	Pass
		-30	3.84	-20.943	-0.0119	/	Pass
		-20	3.84	-23.289	-0.0133	/	Pass
		-10	3.84	-21.029	-0.0120	/	Pass
		0	3.84	-18.103	-0.0103	/	Pass
		10	3.84	-17.738	-0.0101	/	Pass
		30	3.84	-19.233	-0.0110	/	Pass
		40	3.84	-17.552	-0.0100	/	Pass
		50	3.84	-16.079	-0.0092	/	Pass
HSUPA	1712.4	20	3.6	-4.492	-0.0026	/	Pass
			3.84	-18.811	-0.0110	/	Pass
			4.3	-20.707	-0.0121	/	Pass
		-30	3.84	-17.660	-0.0103	/	Pass
		-20	3.84	-20.020	-0.0117	/	Pass
		-10	3.84	-18.024	-0.0105	/	Pass
		0	3.84	-19.906	-0.0116	/	Pass
		10	3.84	-20.642	-0.0121	/	Pass
		30	3.84	-16.272	-0.0095	/	Pass
		40	3.84	-17.066	-0.0100	/	Pass
		50	3.84	-17.931	-0.0105	/	Pass
	1732.6	20	3.6	-15.965	-0.0092	/	Pass
			3.84	-19.019	-0.0110	/	Pass
			4.3	-19.805	-0.0114	/	Pass
		-30	3.84	-19.712	-0.0114	/	Pass
		-20	3.84	-20.485	-0.0118	/	Pass
		-10	3.84	-21.243	-0.0123	/	Pass
		0	3.84	-20.149	-0.0116	/	Pass
		10	3.84	-18.547	-0.0107	/	Pass
		30	3.84	-15.936	-0.0092	/	Pass
		40	3.84	-16.501	-0.0095	/	Pass
		50	3.84	-18.997	-0.0110	/	Pass



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	1752.6	20	3.6	-12.517	-0.0071	/	Pass
			3.84	-13.196	-0.0075	/	Pass
			4.3	-14.083	-0.0080	/	Pass
		-30	3.84	-9.105	-0.0052	/	Pass
		-20	3.84	-12.302	-0.0070	/	Pass
		-10	3.84	-6.666	-0.0038	/	Pass
		0	3.84	-13.111	-0.0075	/	Pass
		10	3.84	-10.593	-0.0060	/	Pass
		30	3.84	-12.867	-0.0073	/	Pass
		40	3.84	-12.853	-0.0073	/	Pass
		50	3.84	-10.593	-0.0060	/	Pass



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3. 99% & 26dB Bandwidth

3.1 Band IV_OBW

3.1.1 Test Result

Band IV						
ENV	Mode		Frequency (MHz)	99% Occupied Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1712.4	4.176	/	Pass
			1732.6	4.180	/	Pass
			1752.6	4.174	/	Pass
	HSDPA	Subtest 1	1712.4	4.184	/	Pass
			1732.6	4.200	/	Pass
			1752.6	4.192	/	Pass
	HSUPA	Subtest 1	1712.4	4.192	/	Pass
			1732.6	4.180	/	Pass
			1752.6	4.202	/	Pass



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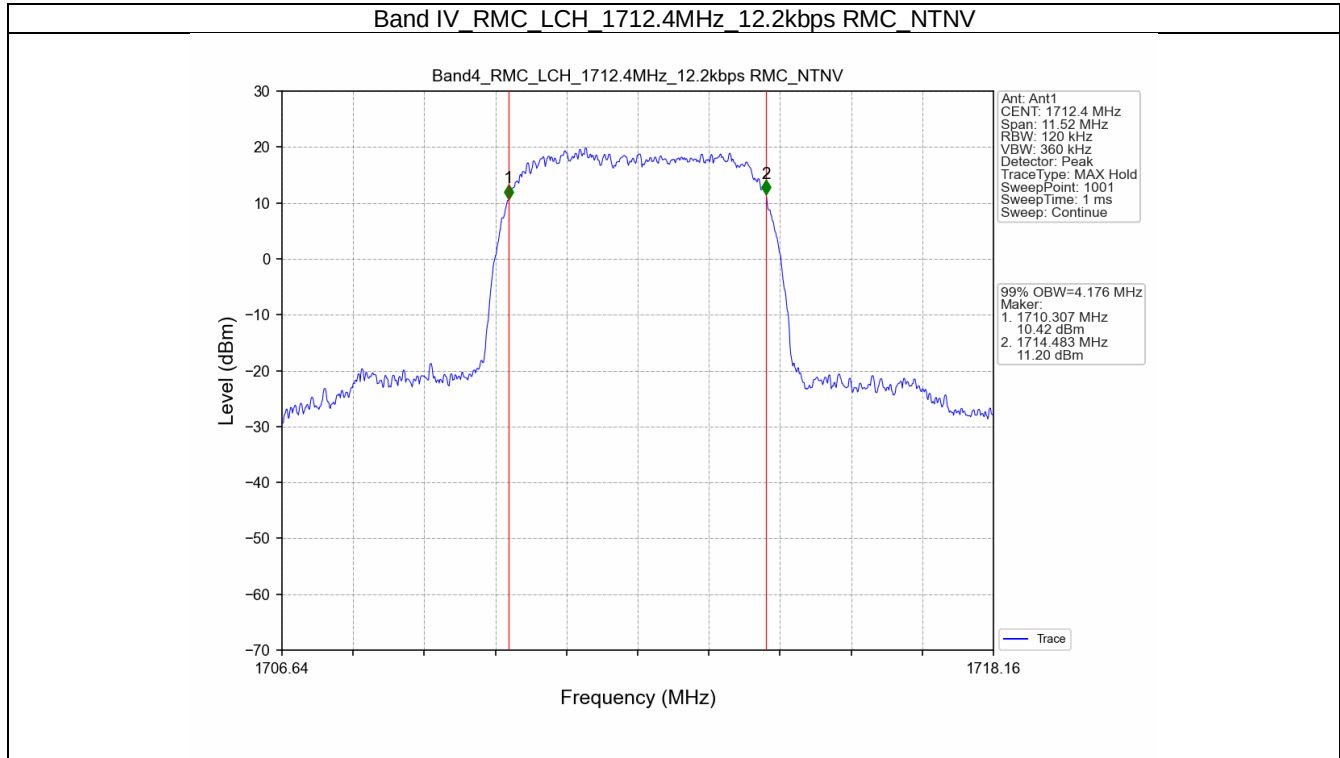
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3.1.2 Test Graph



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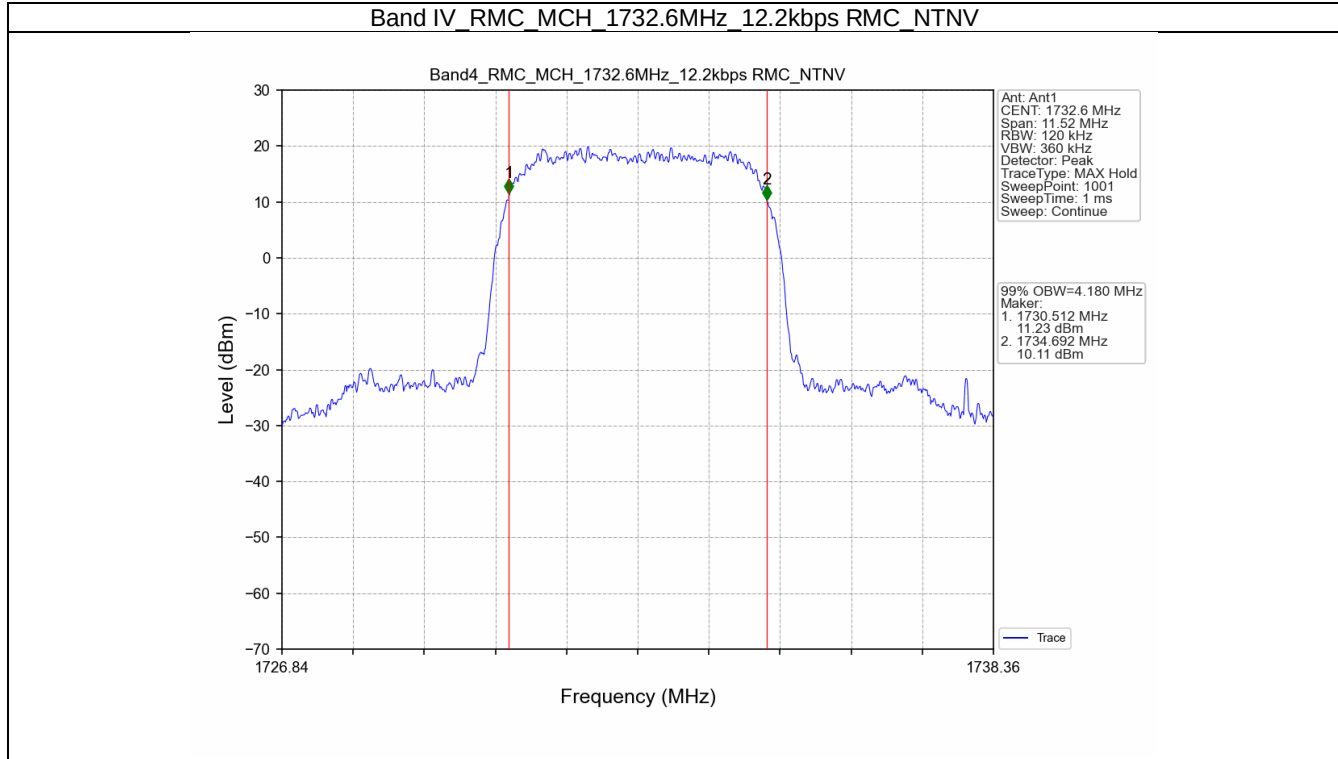


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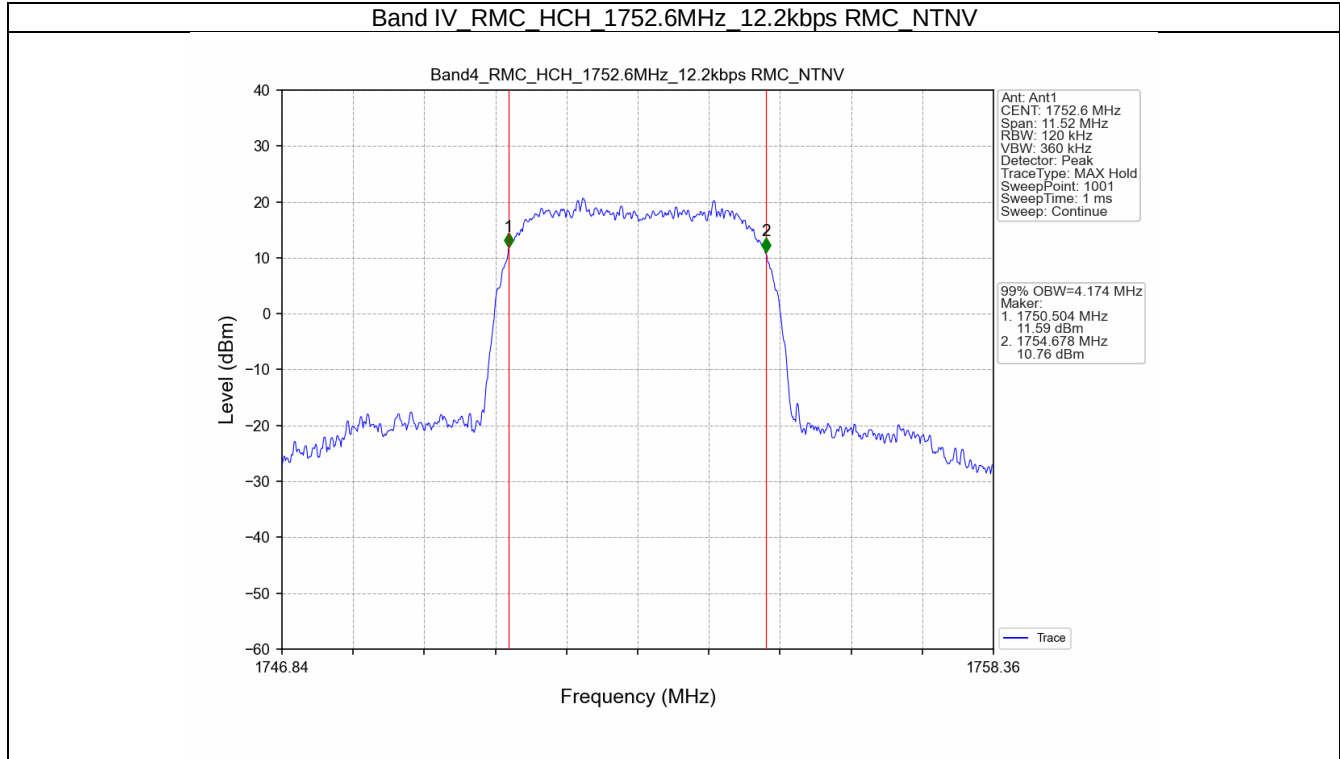


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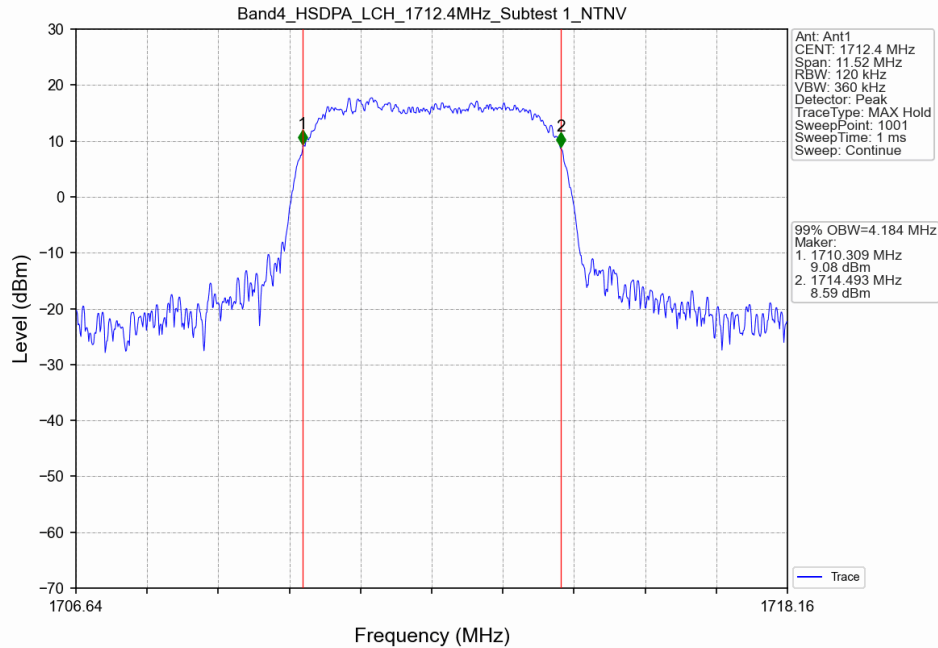
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Band IV_HSDPA_LCH_1712.4MHz_Subtest 1_NTNV



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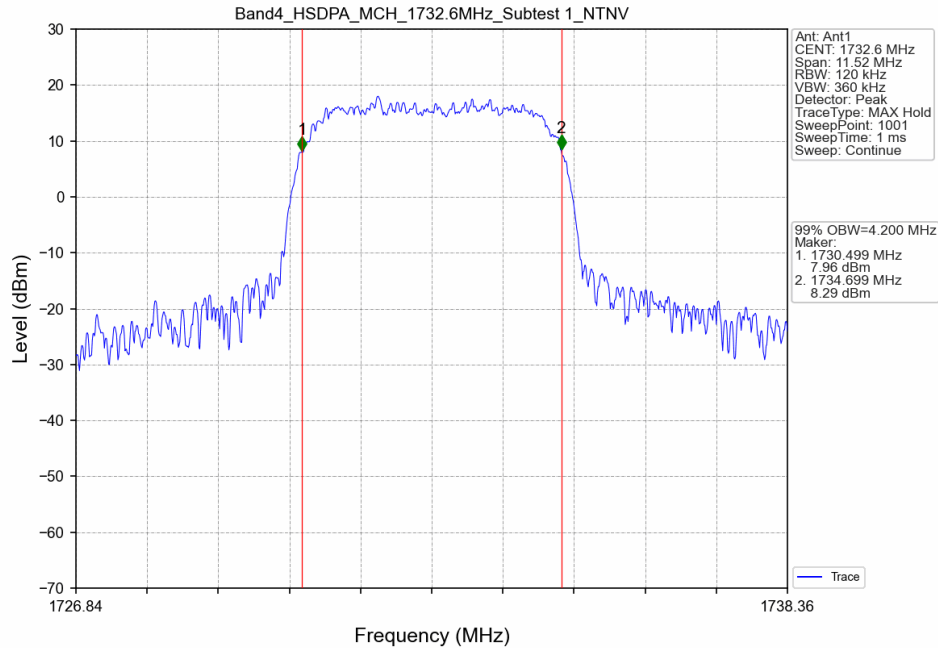
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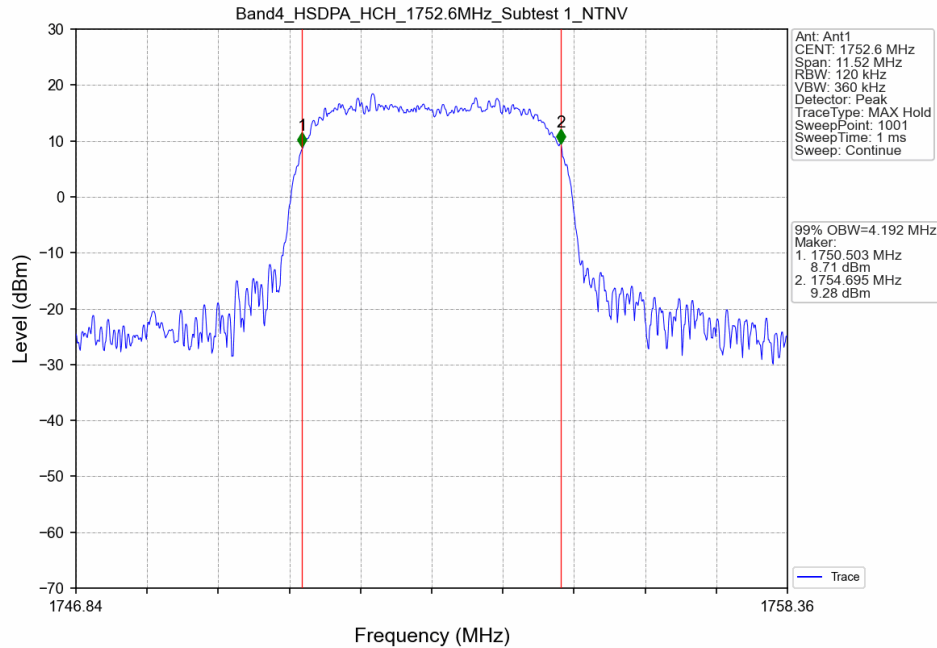
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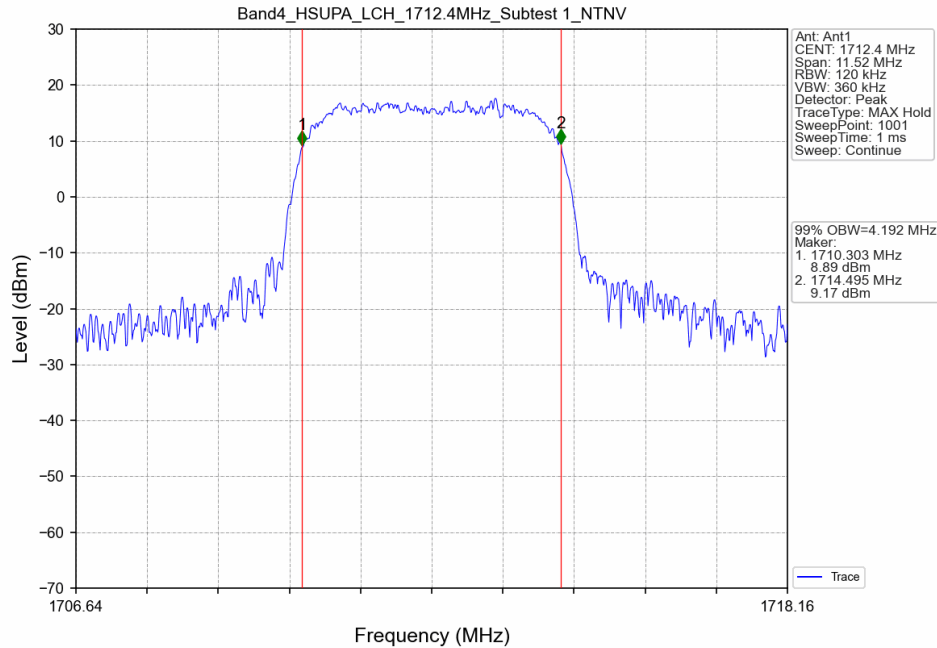
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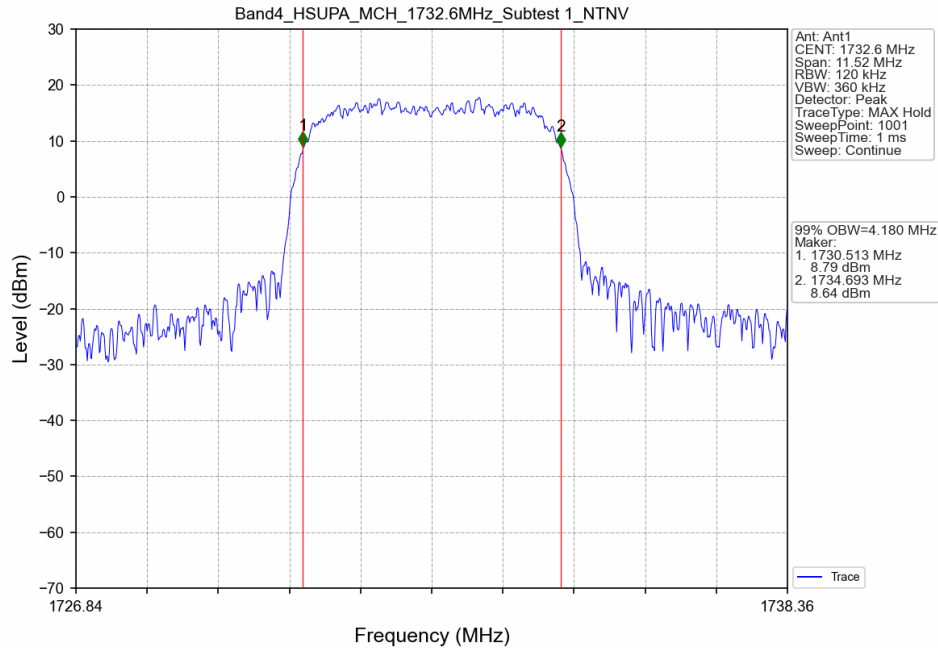
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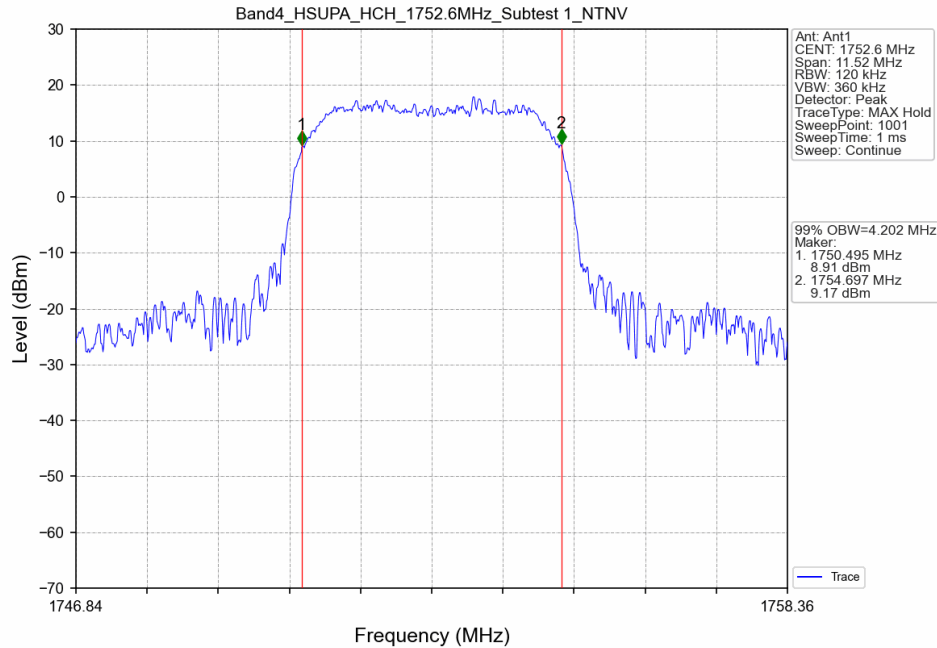
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3.2 Band IV_XDB

3.2.1 Test Result

Band IV						
ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1712.4	4.777	/	Pass
			1732.6	4.763	/	Pass
			1752.6	4.752	/	Pass
	HSDPA	Subtest 1	1712.4	4.802	/	Pass
			1732.6	4.749	/	Pass
			1752.6	4.720	/	Pass
	HSUPA	Subtest 1	1712.4	4.758	/	Pass
			1732.6	4.745	/	Pass
			1752.6	4.741	/	Pass



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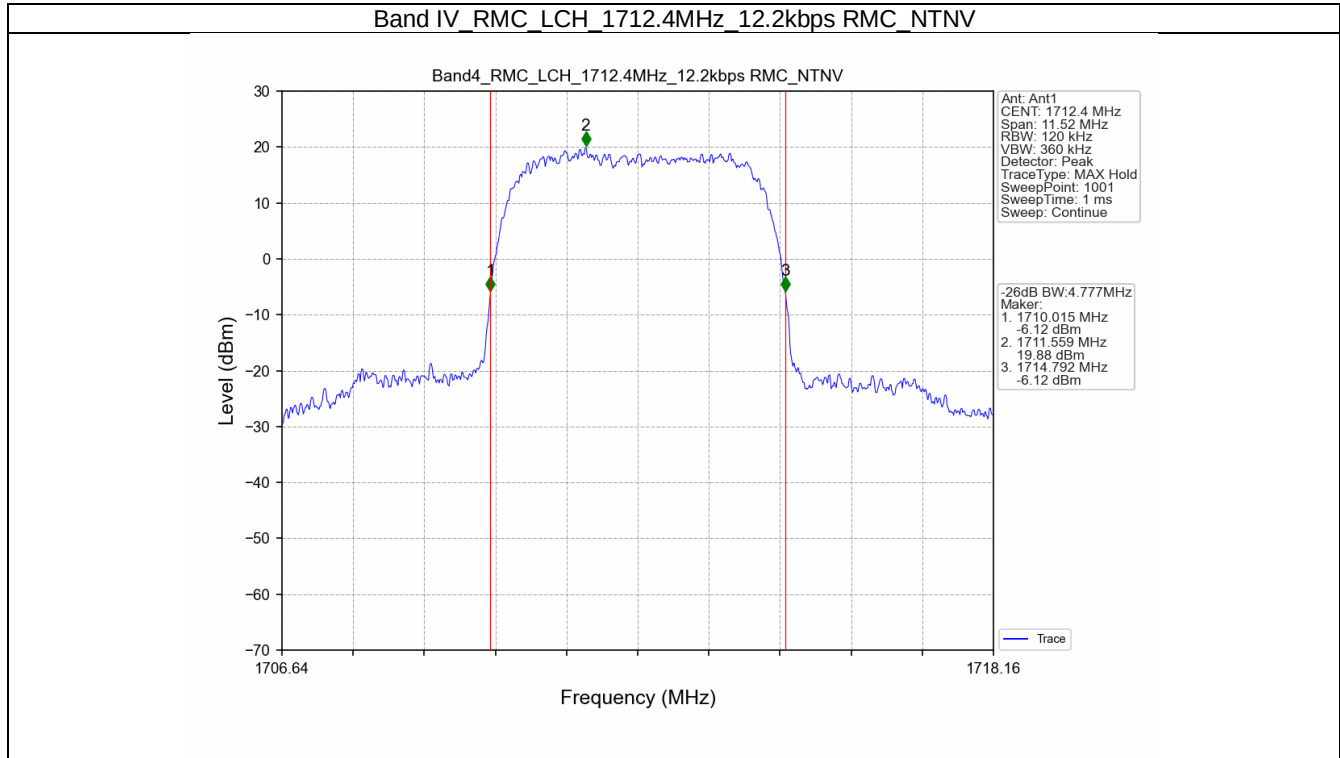
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3.2.2 Test Graph



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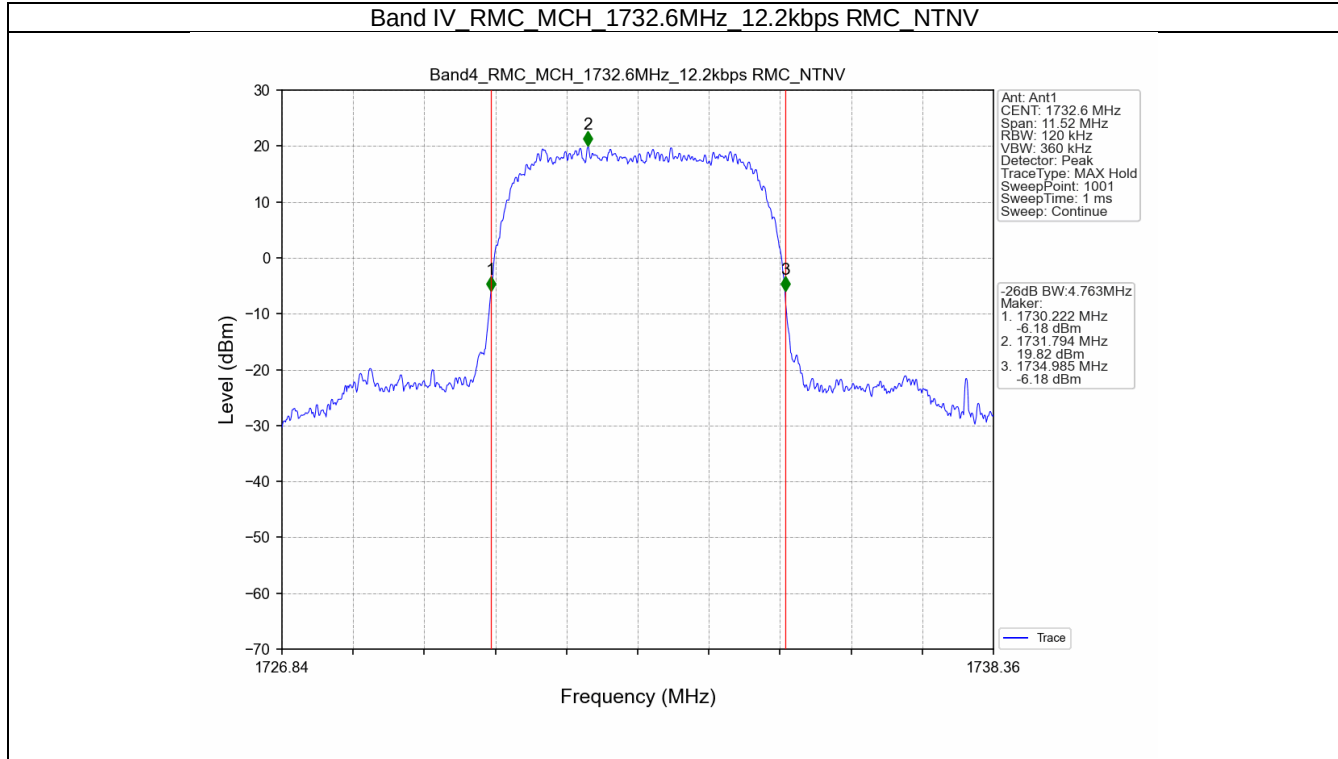


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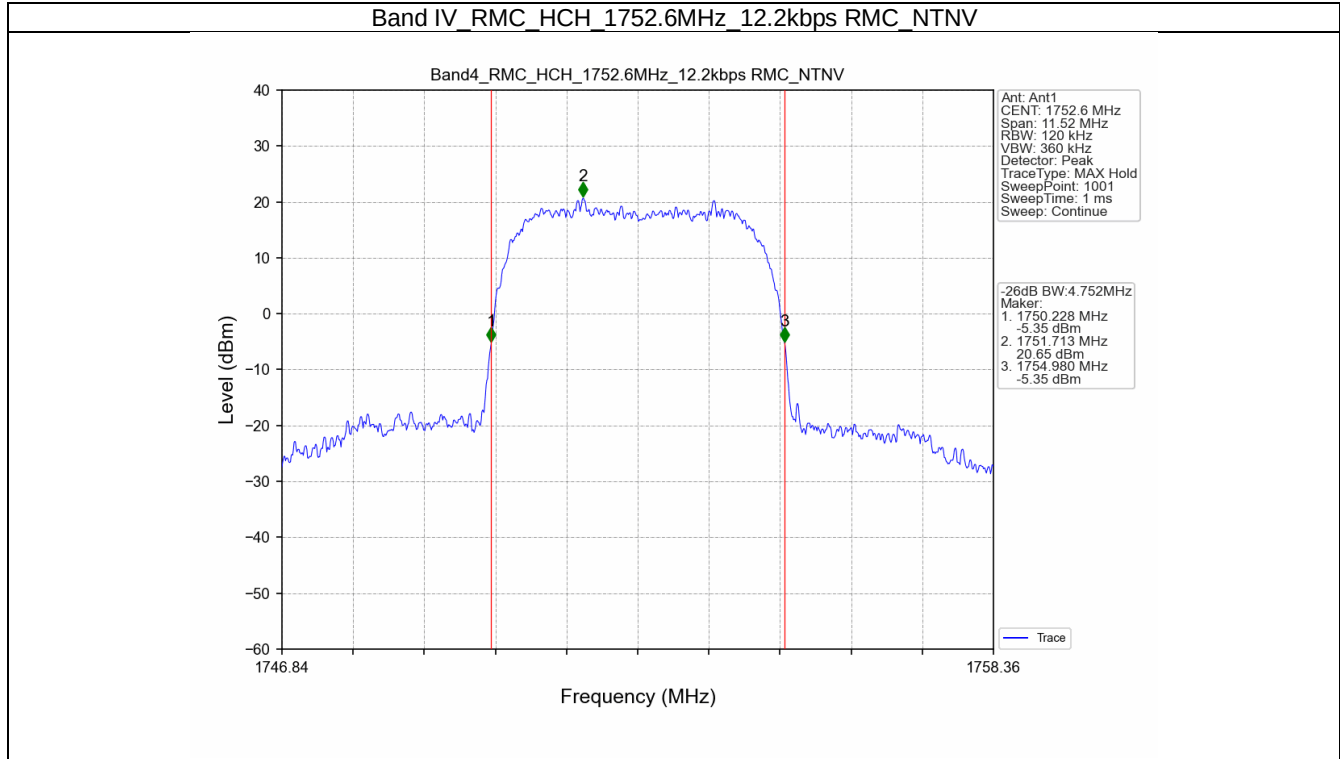


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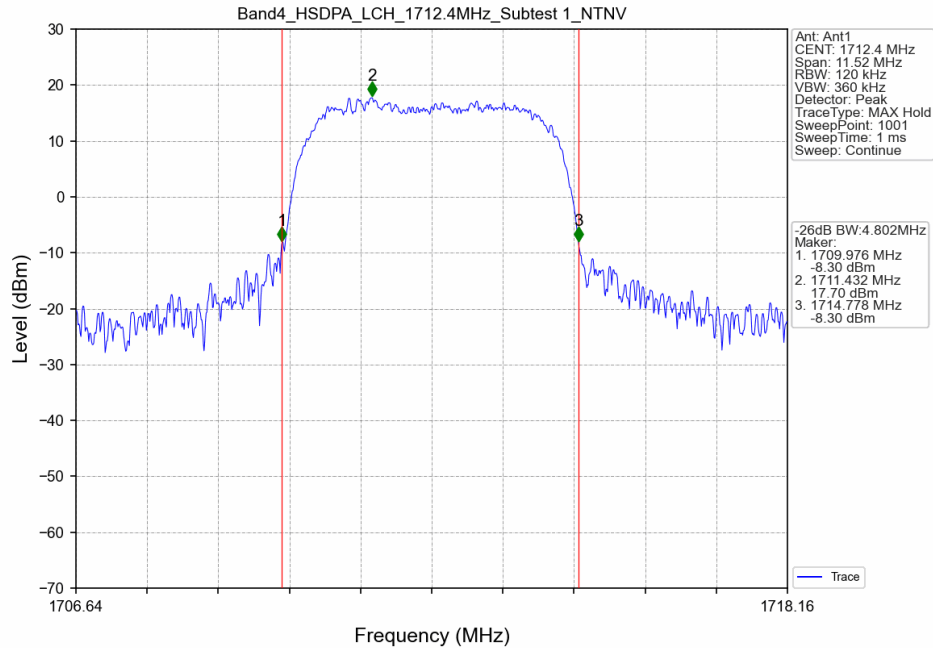
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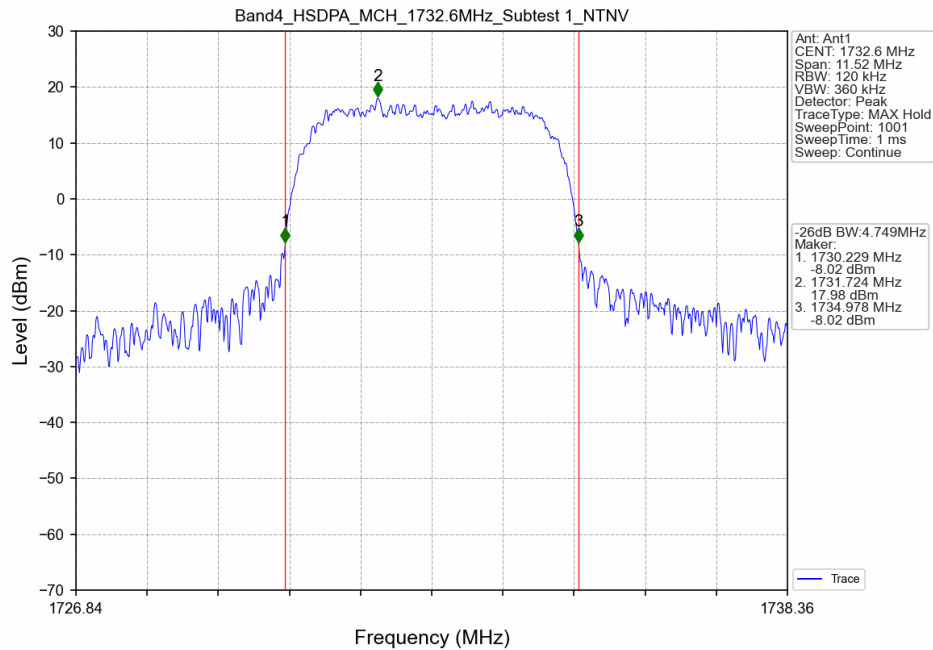
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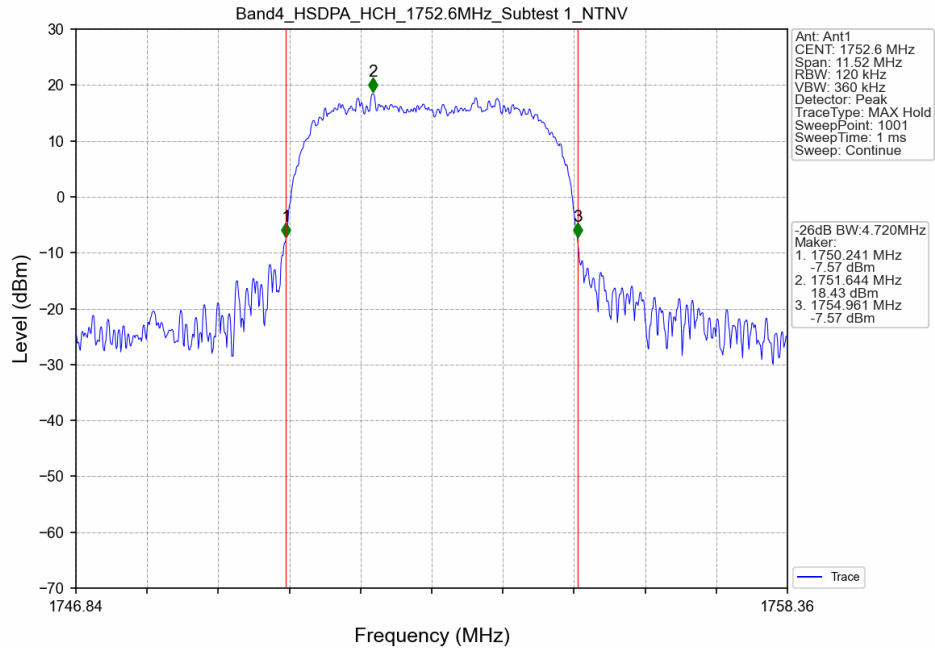
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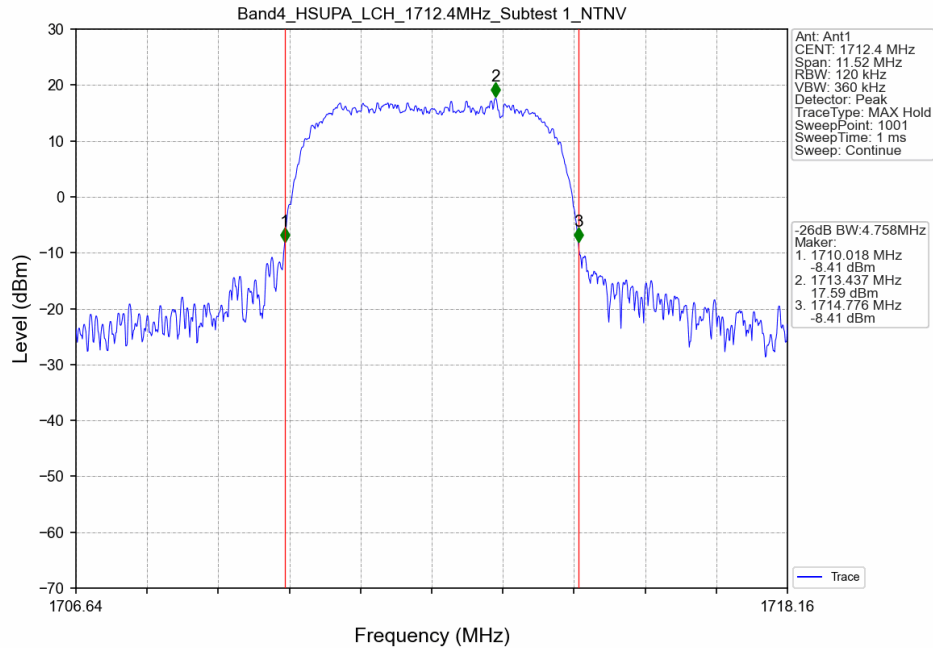
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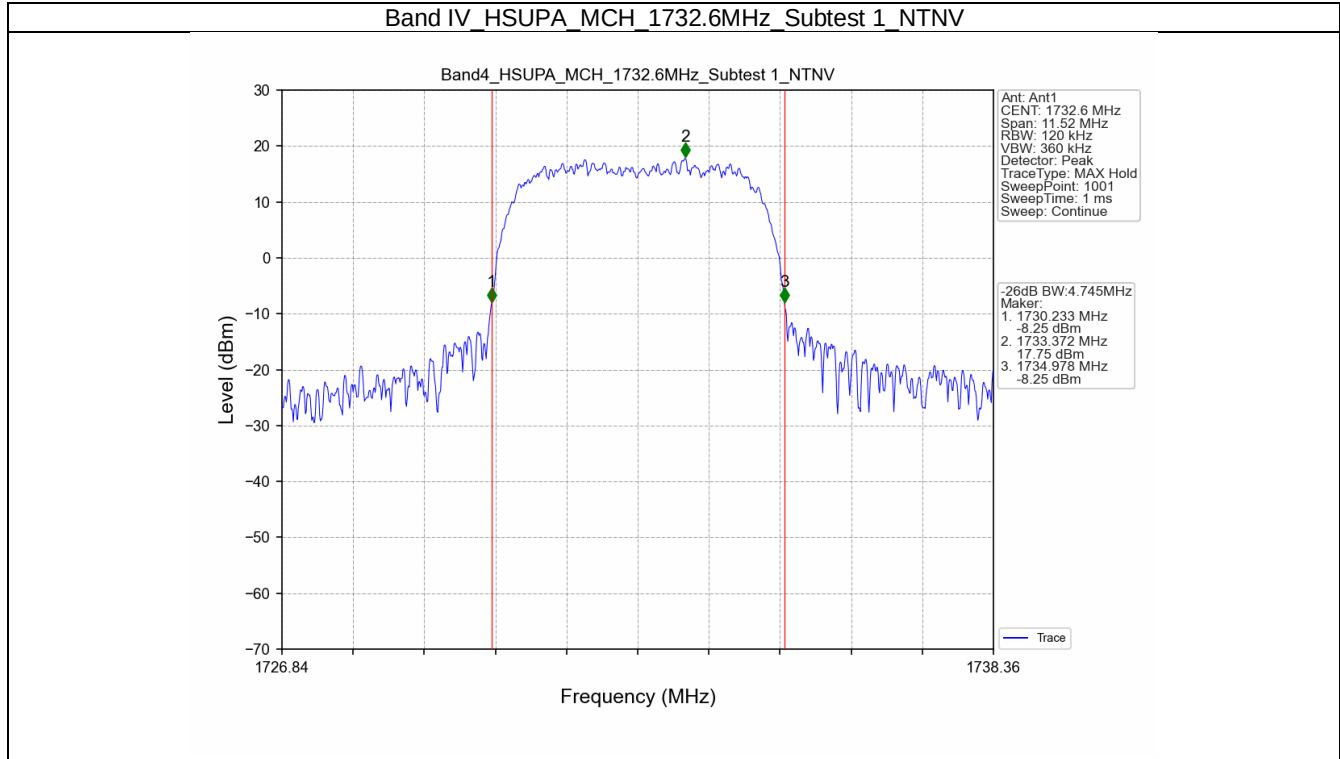


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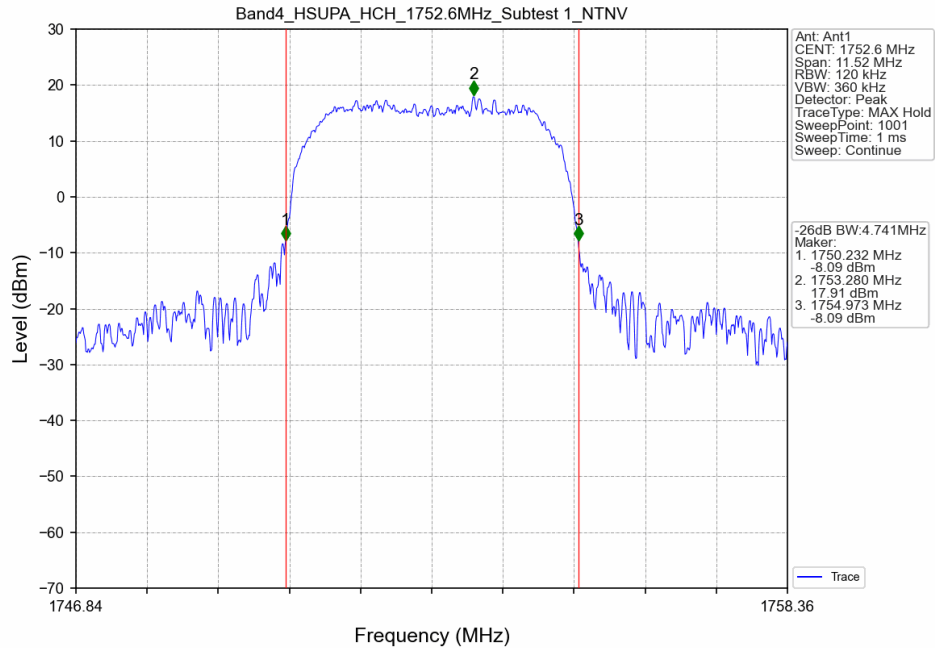
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Band IV_HSUPA_HCH_1752.6MHz_Subtest 1_NTNV



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4. Peak-Average Ratio

4.1 Band IV

4.1.1 Test Result

Band IV						
ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1712.4	2.64	≤ 13	Pass
			1732.6	2.70	≤ 13	Pass
			1752.6	2.58	≤ 13	Pass
	HSDPA	Subtest 1	1712.4	5.80	≤ 13	Pass
			1732.6	5.90	≤ 13	Pass
			1752.6	5.70	≤ 13	Pass
	HSUPA	Subtest 1	1712.4	5.87	≤ 13	Pass
			1732.6	5.85	≤ 13	Pass
			1752.6	5.60	≤ 13	Pass



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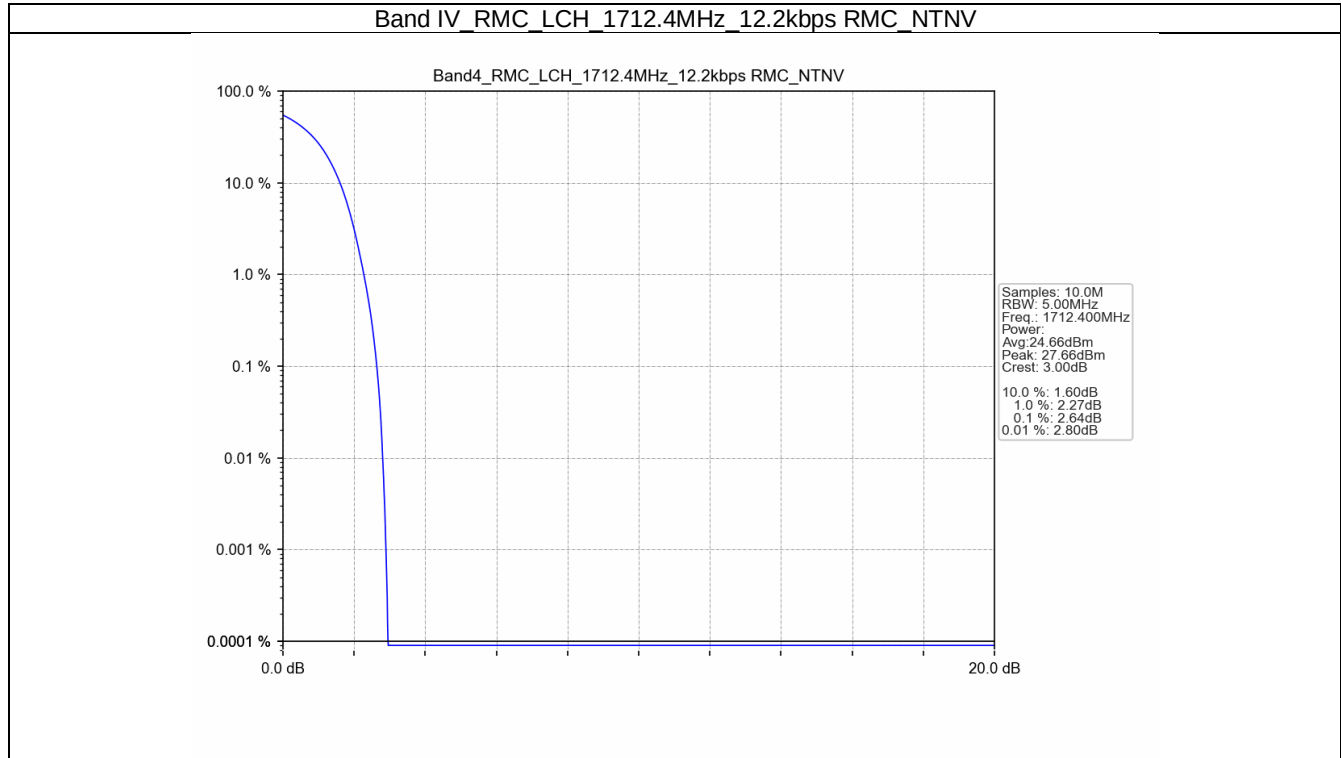
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4.1.2 Test Graph



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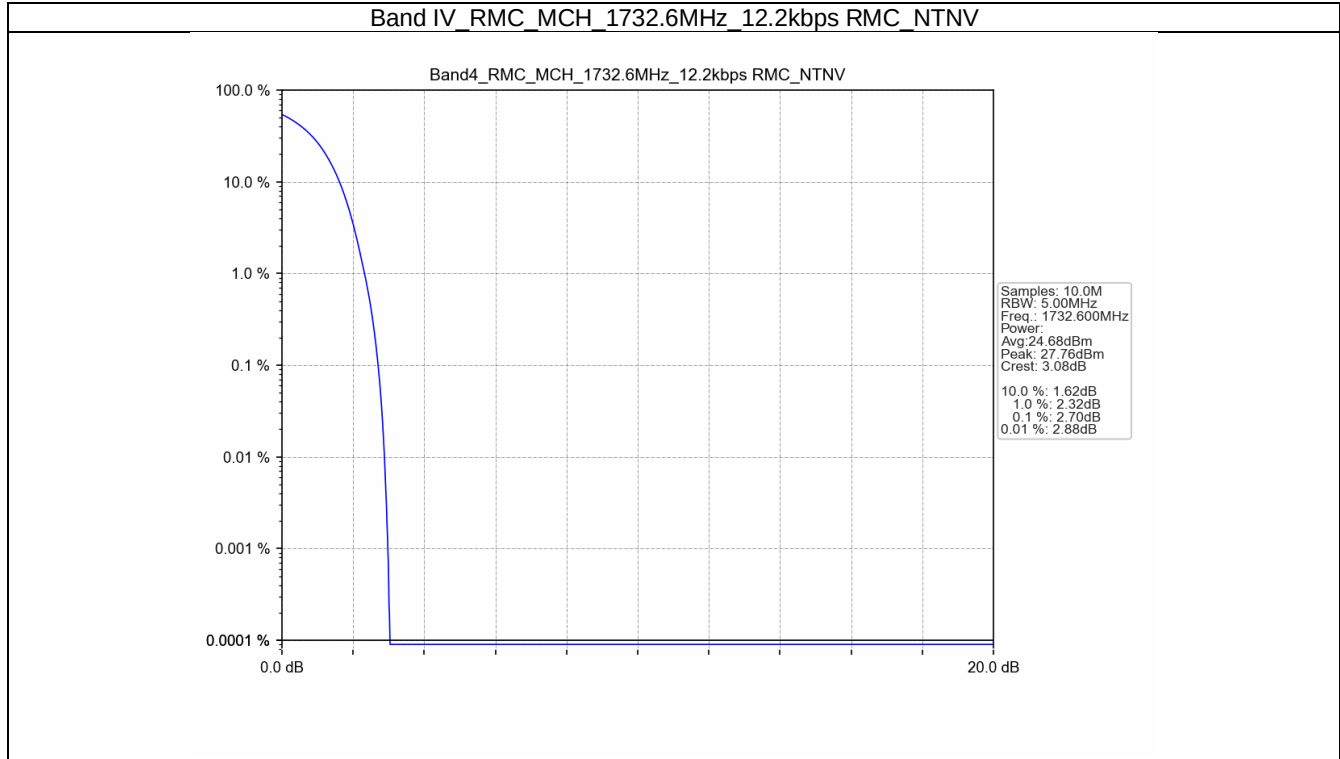


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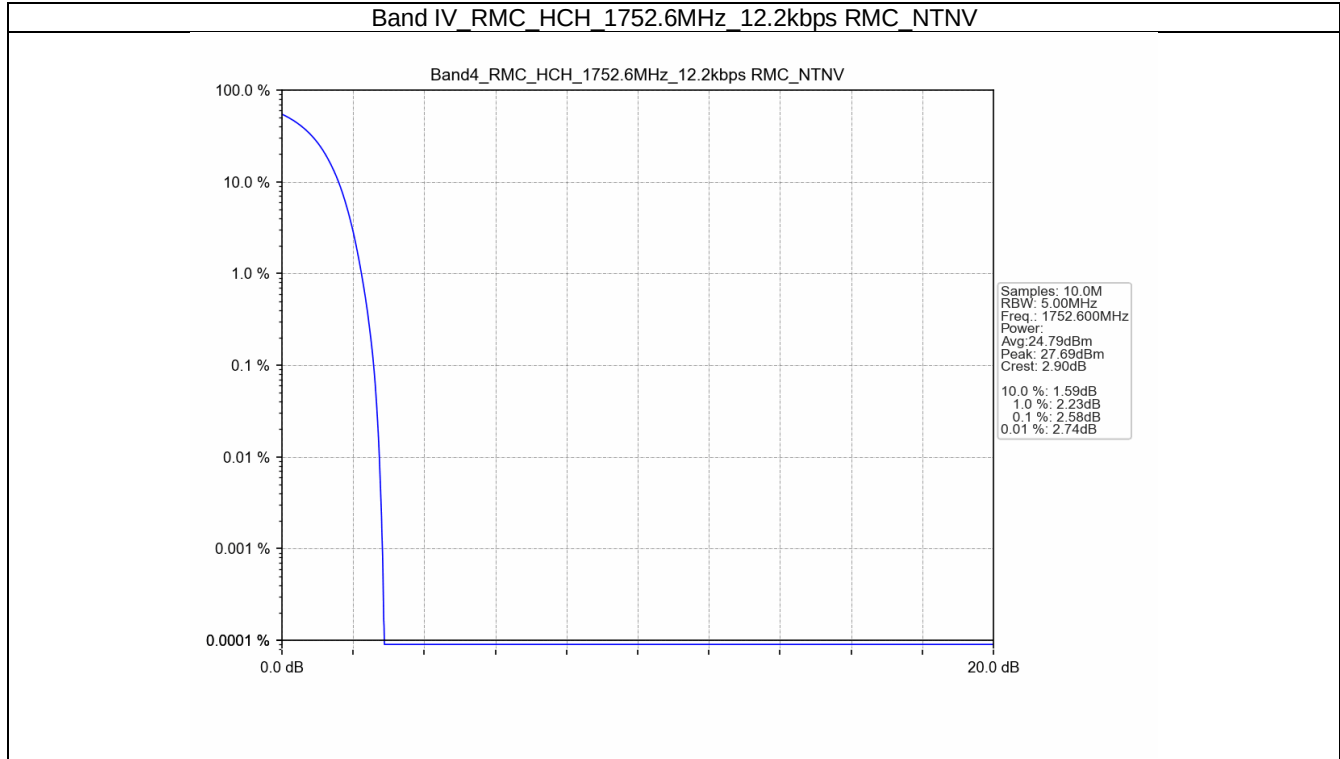


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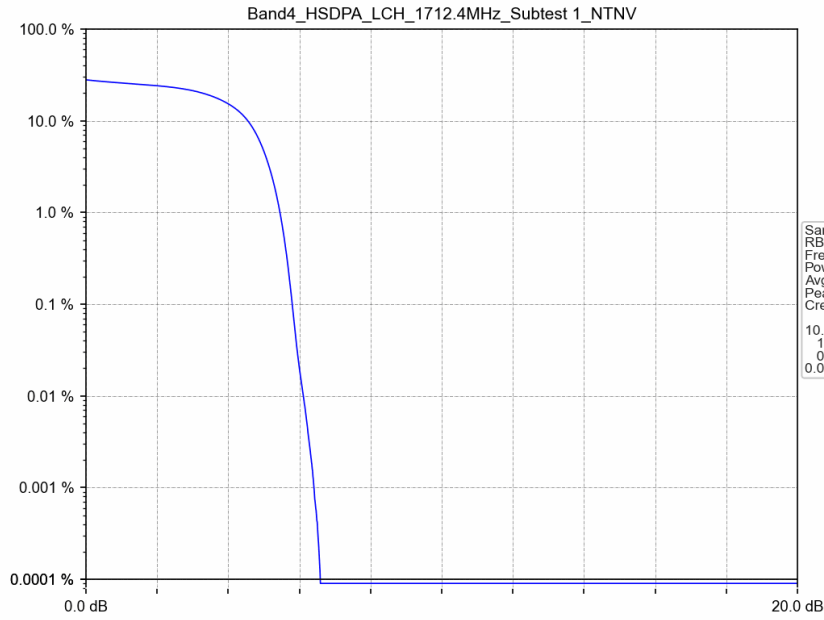
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Band IV_HSDPA_LCH_1712.4MHz_Subtest 1_NTNV



Samples: 10.0M
RBW: 5.00MHz
Freq.: 1712.400MHz
Power:
Avg: 20.79dBm
Peak: 28.12dBm
Crest: 7.33dB



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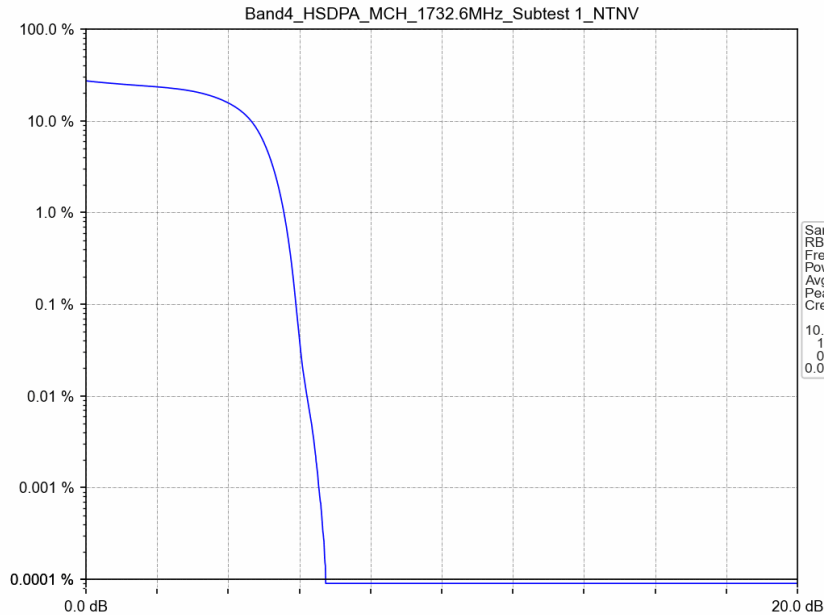
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Band IV_HSDPA_MCH_1732.6MHz_Subtest 1_NTNV



Samples: 10.0M
RBW: 5.00MHz
Freq.: 1732.600MHz
Power:
Avg: 20.74dBm
Peak: 28.05dBm
Crest: 7.31dB
10.0 %: 4.64dB
1.0 %: 5.56dB
0.1 %: 5.90dB
0.01 %: 6.21dB



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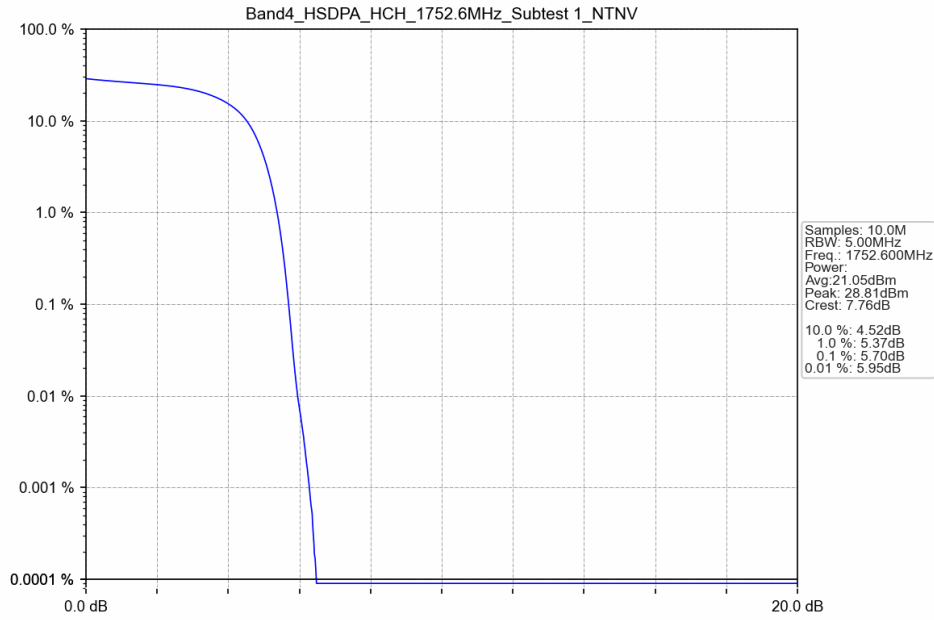
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Band IV_HSDPA_HCH_1752.6MHz_Subtest 1_NTNV



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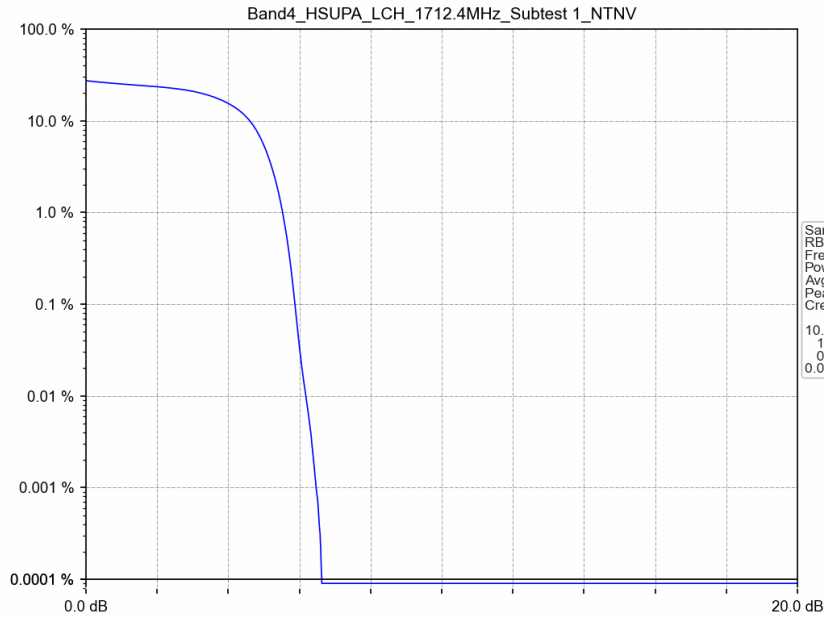
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Band IV_HSUPA_LCH_1712.4MHz_Subtest 1_NTNV



Samples: 10.0M
RBW: 5.00MHz
Freq.: 1712.400MHz
Power:
Avg: 20.72dBm
Peak: 27.80dBm
Crest: 7.08dB
10.0 %: 4.60dB
1.0 %: 5.53dB
0.1 %: 5.87dB
0.01 %: 6.18dB



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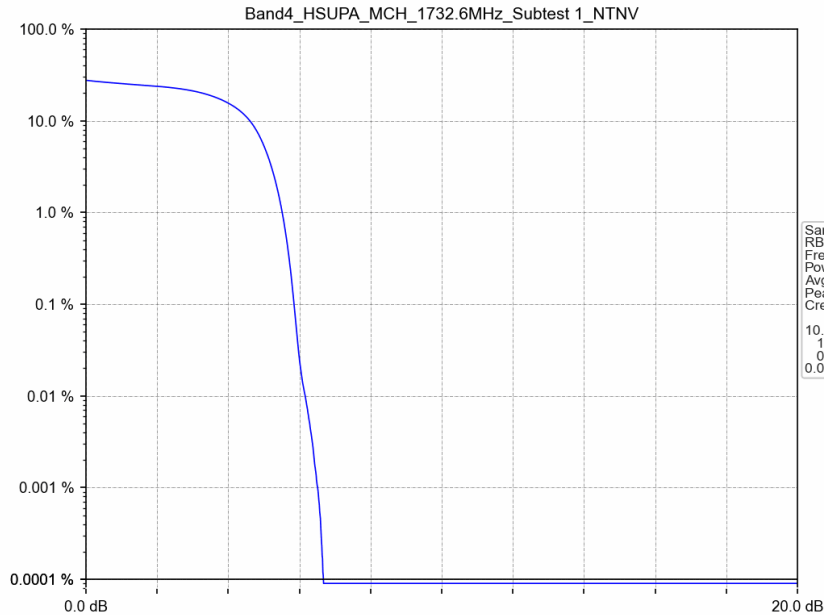
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Band IV_HSUPA_MCH_1732.6MHz_Subtest 1_NTNV



Samples: 10.0M
RBW: 5.00MHz
Freq.: 1732.600MHz
Power:
Avg: 20.77dBm
Peak: 29.18dBm
Crest: 8.41dB
10.0 %: 4.61dB
1.0 %: 5.52dB
0.1 %: 5.85dB
0.01 %: 6.16dB



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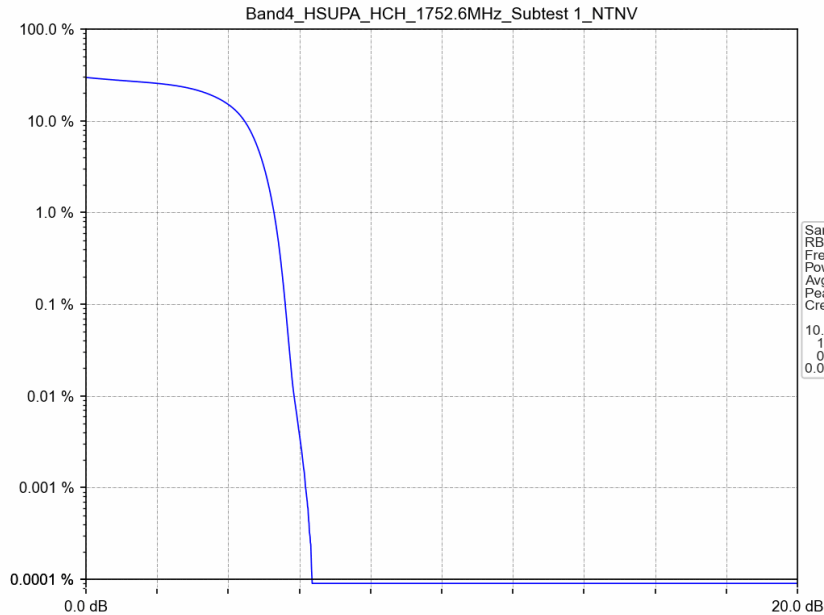
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Band IV_HSUPA_HCH_1752.6MHz_Subtest 1_NTNV



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5. Spurious Emission & Band Edge

5.1 Band IV

5.1.1 Test Result

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	



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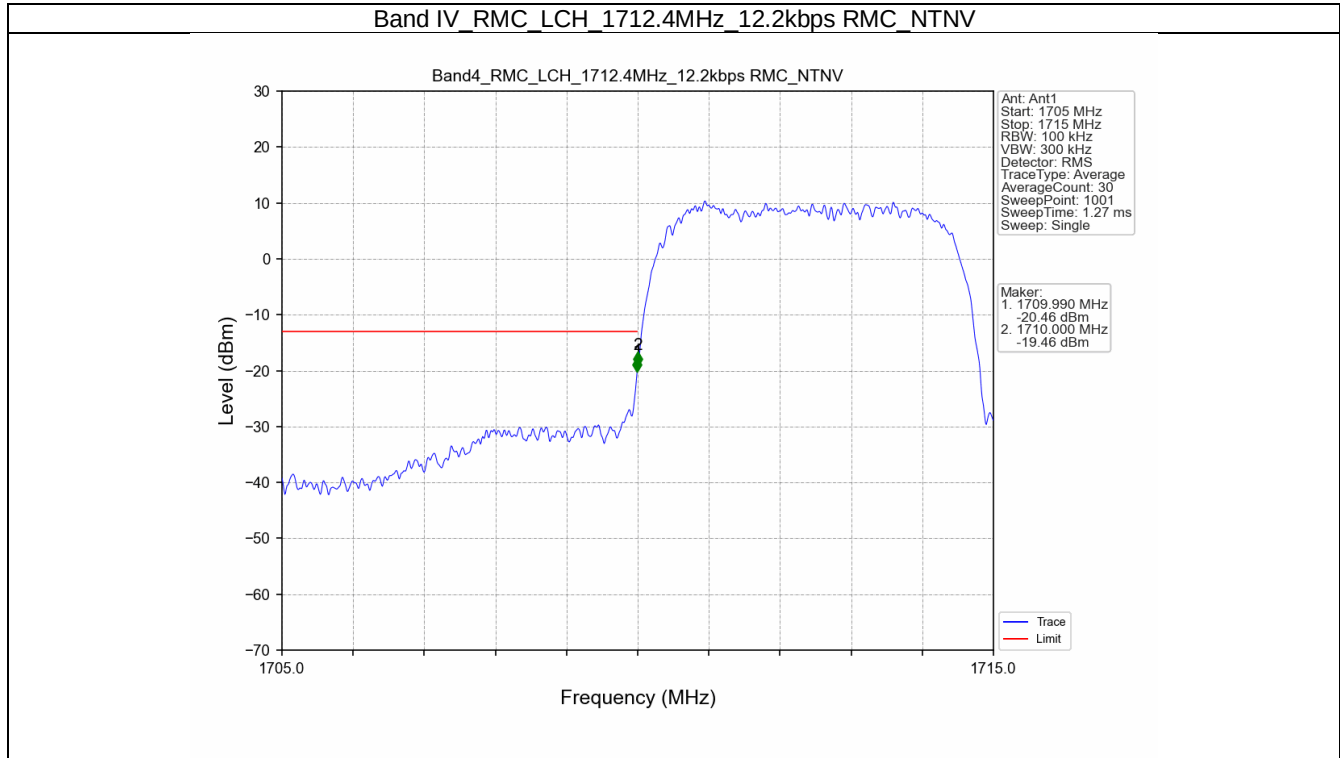
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5.1.2 Test Graph



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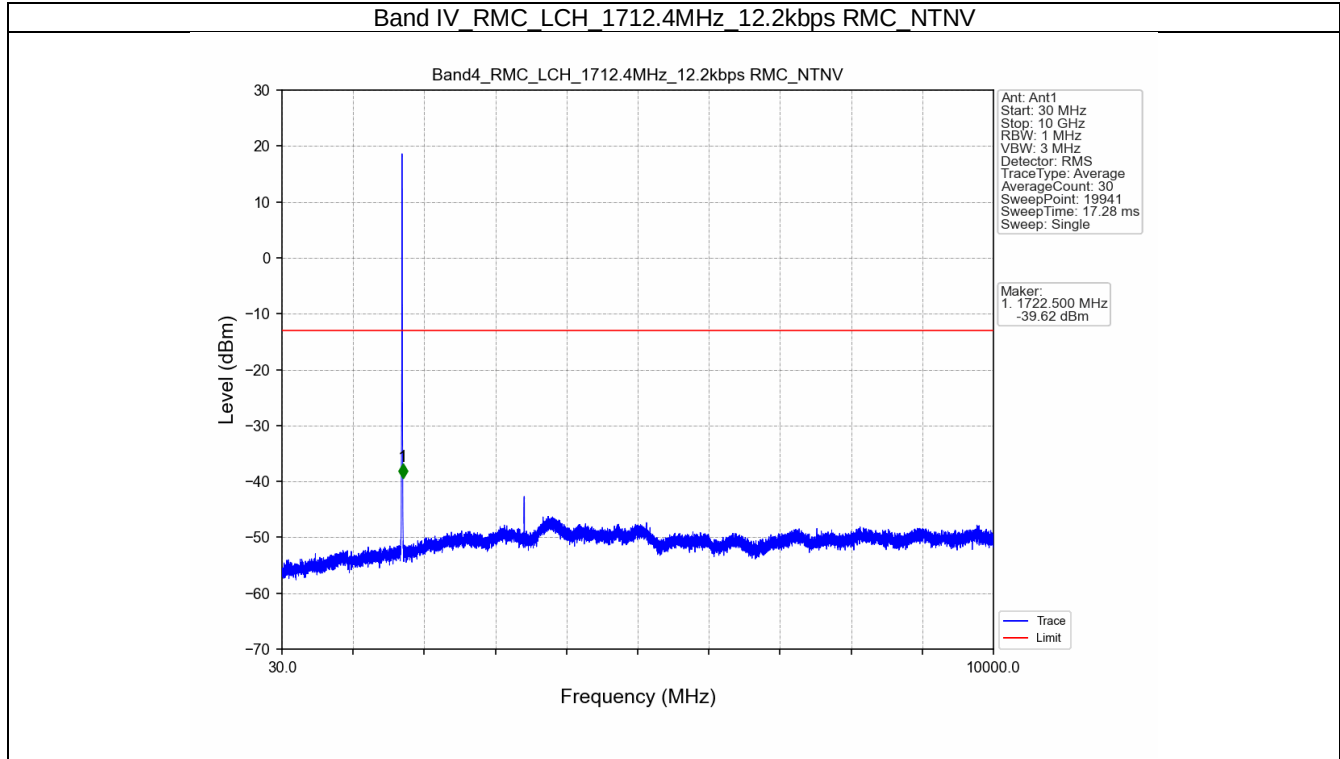


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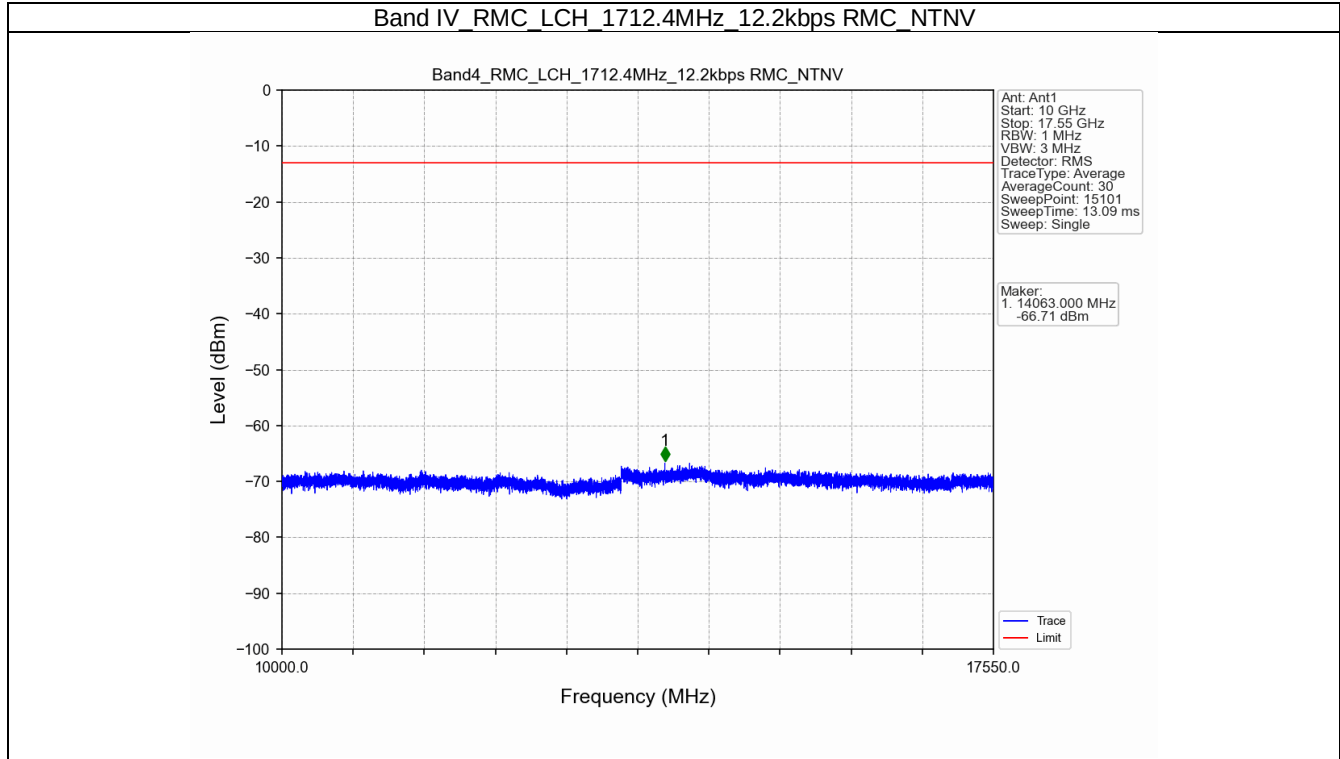


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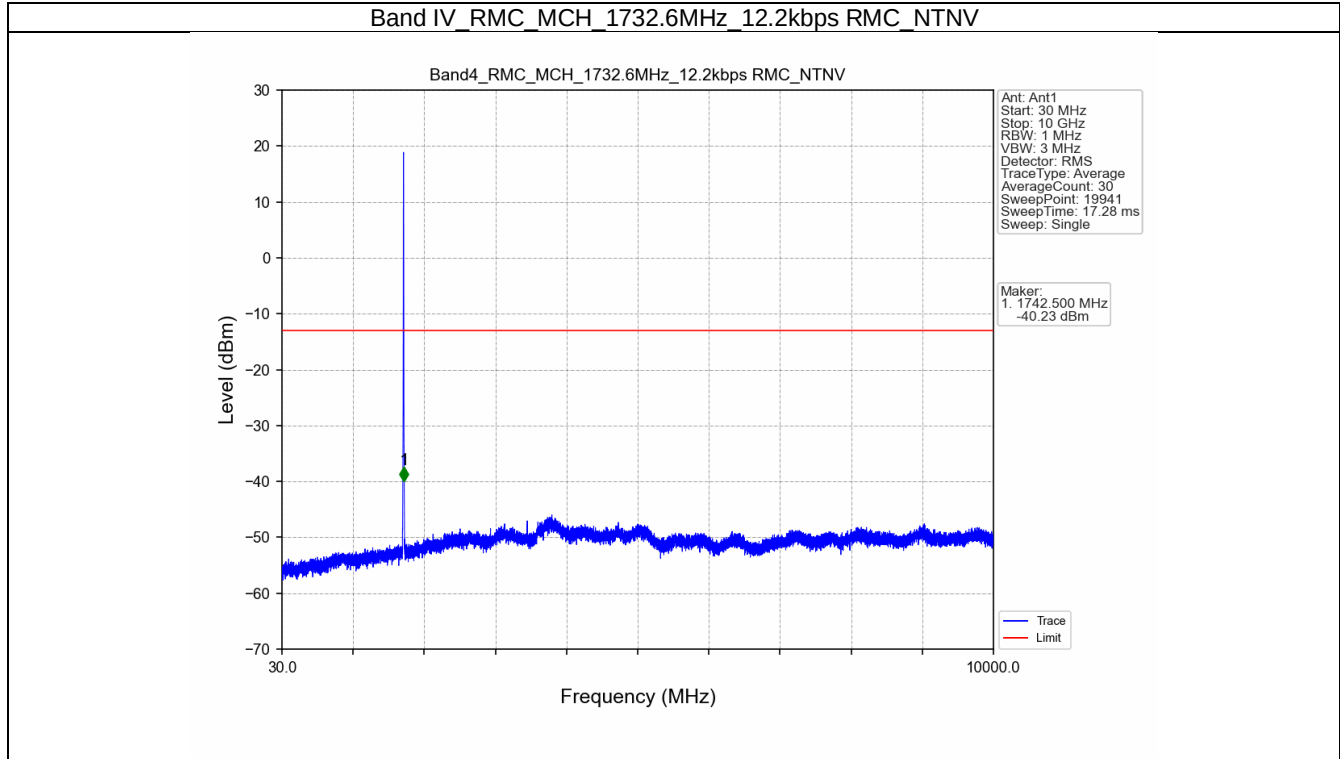


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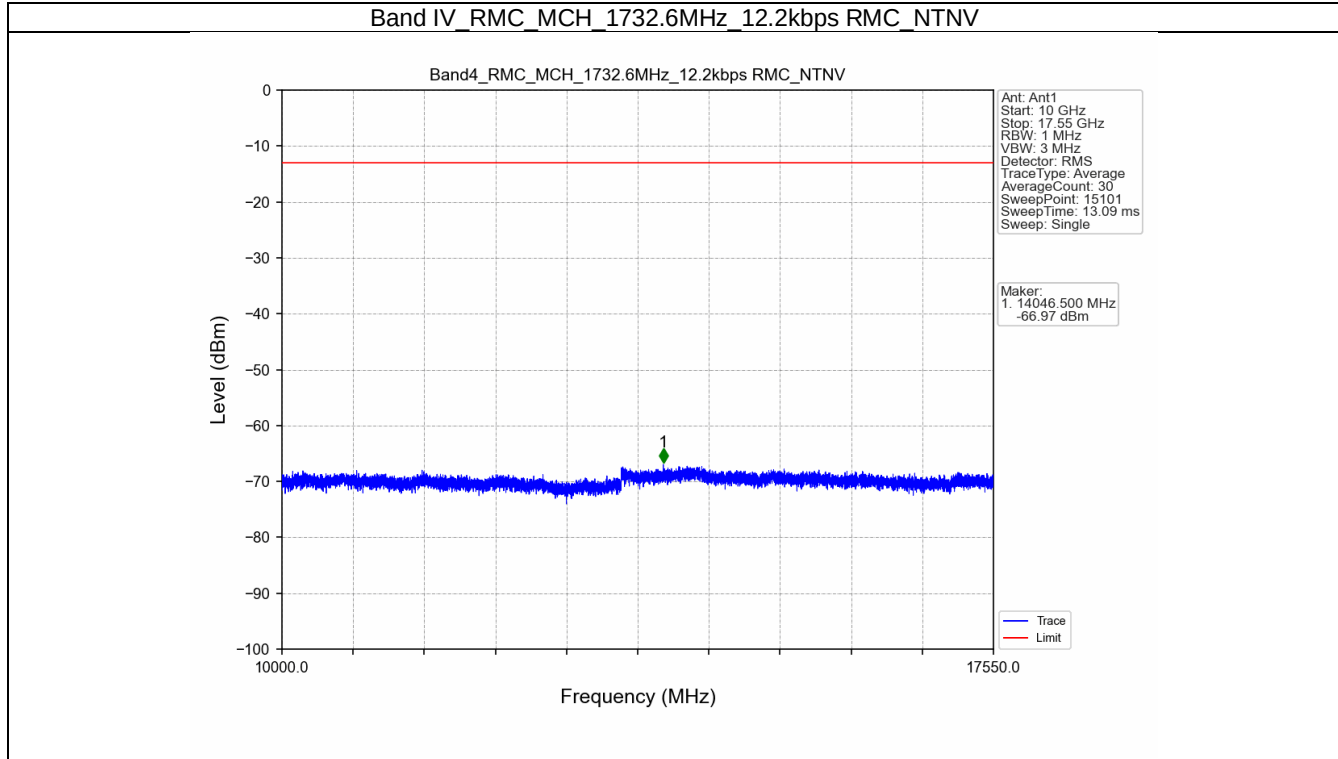


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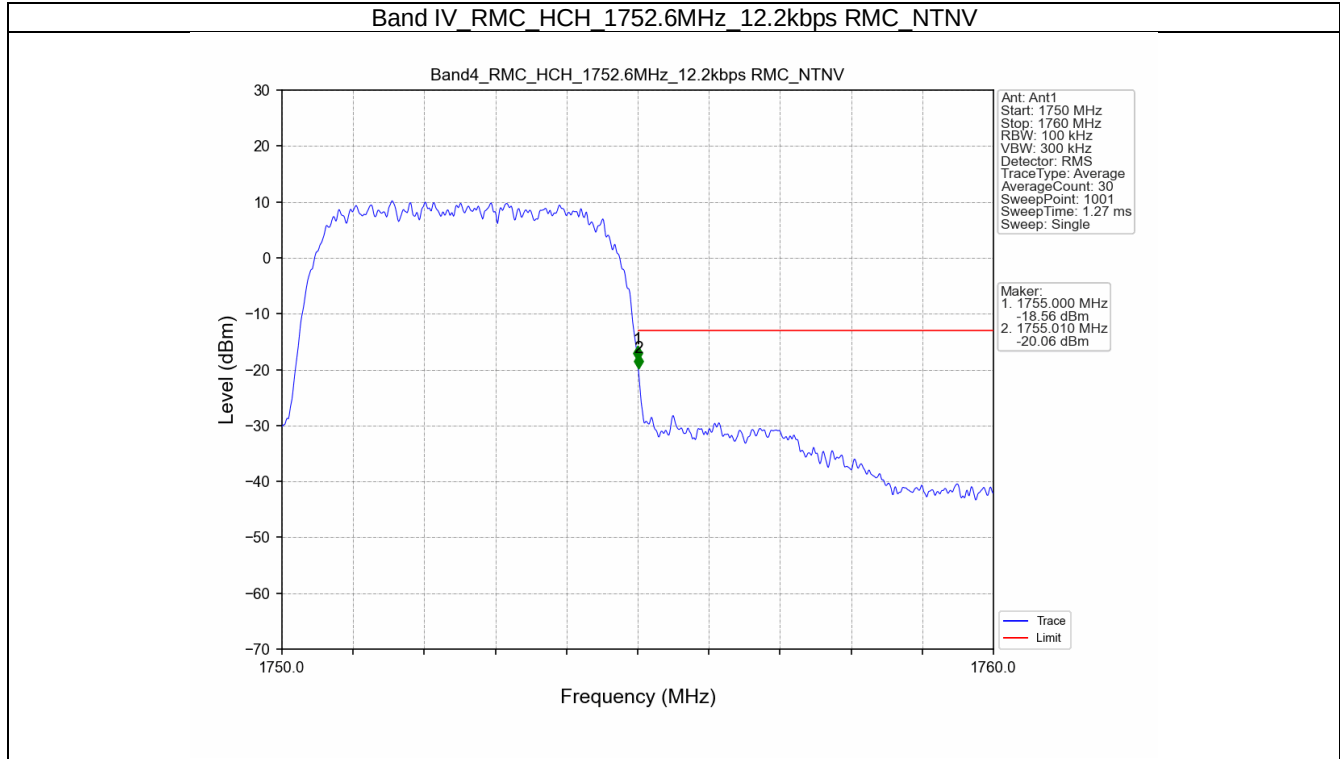


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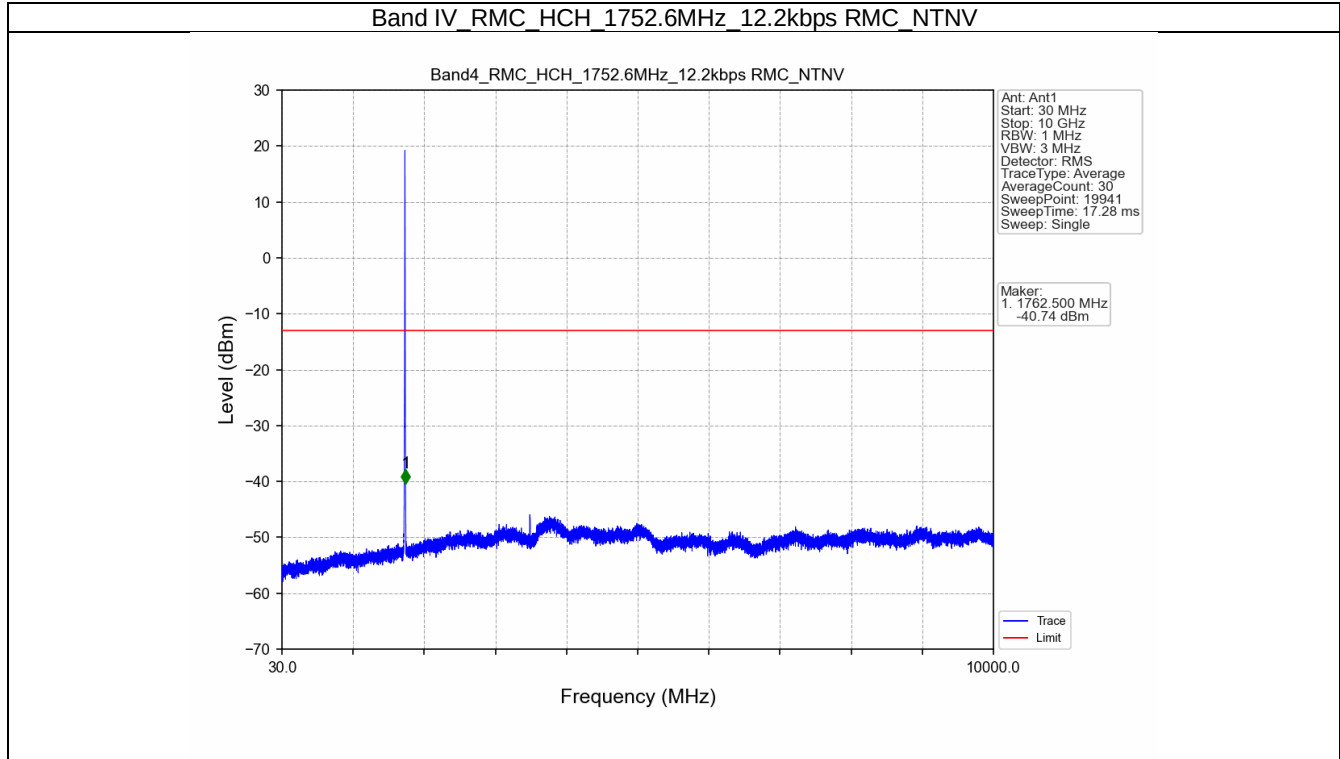


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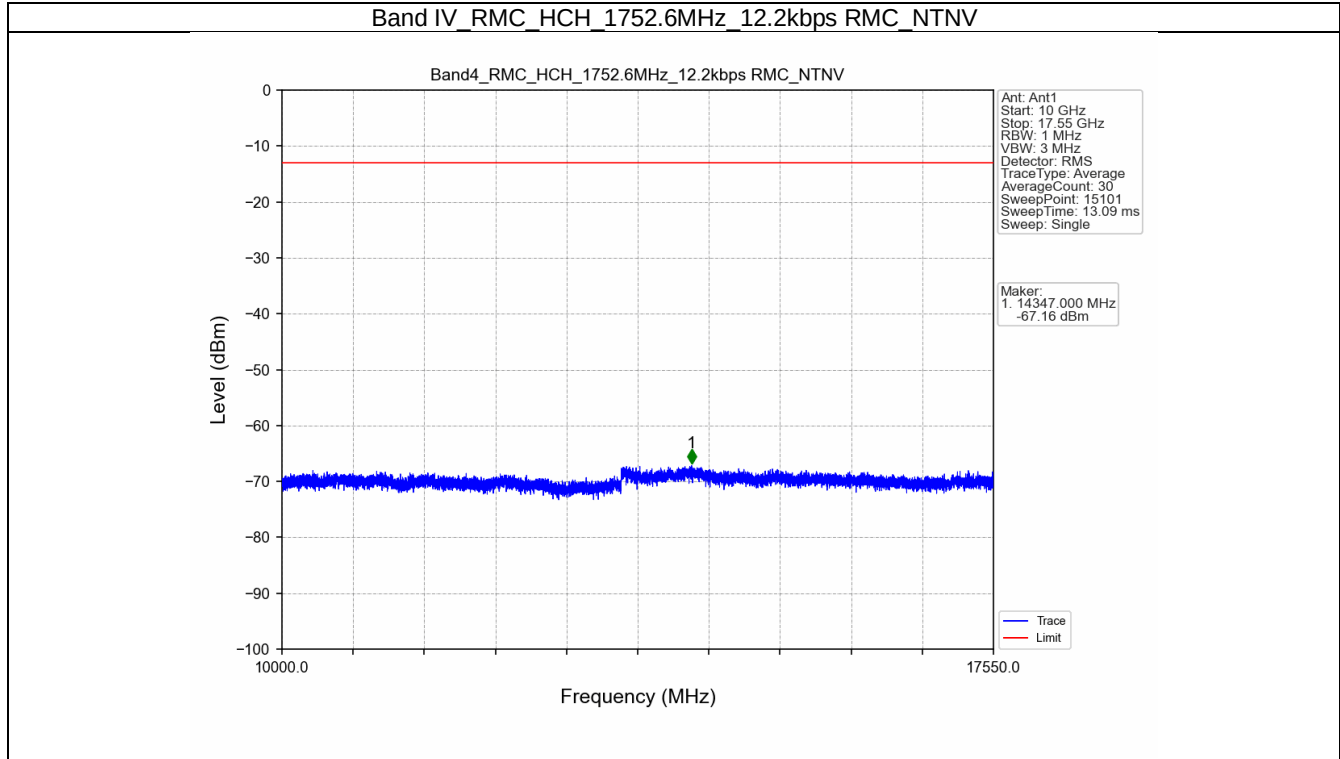


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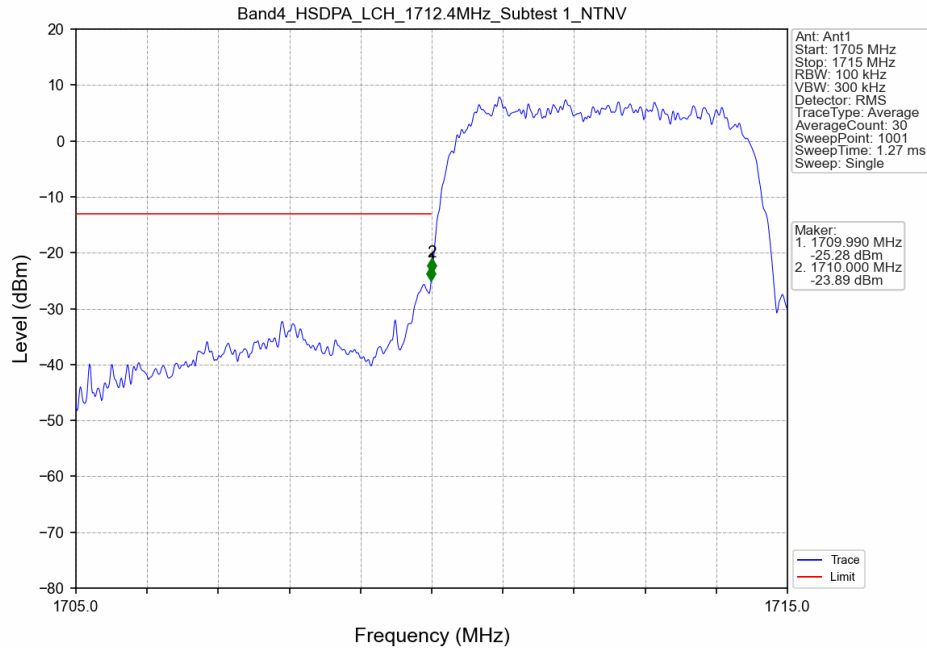
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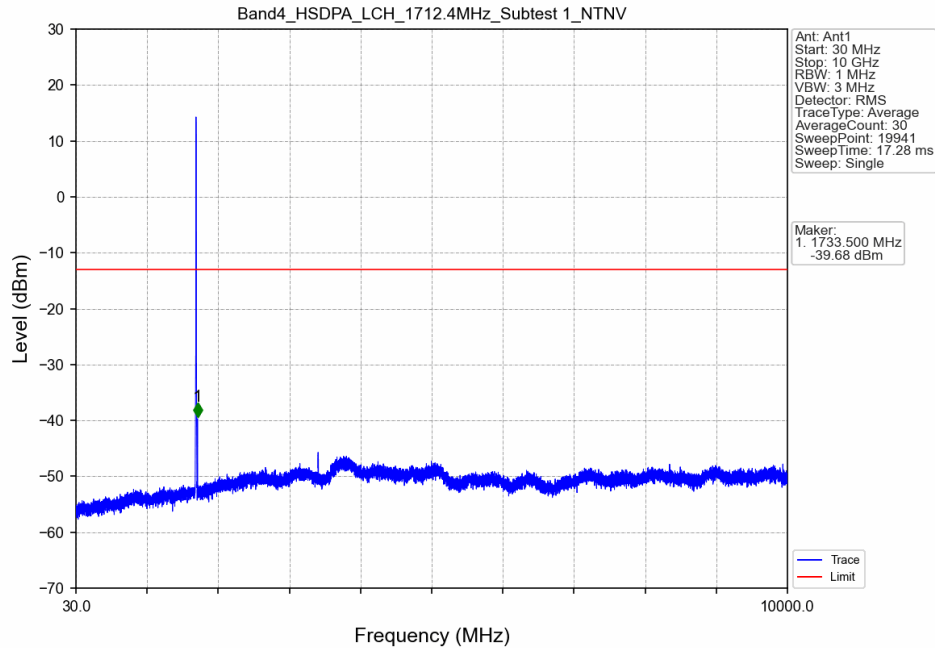
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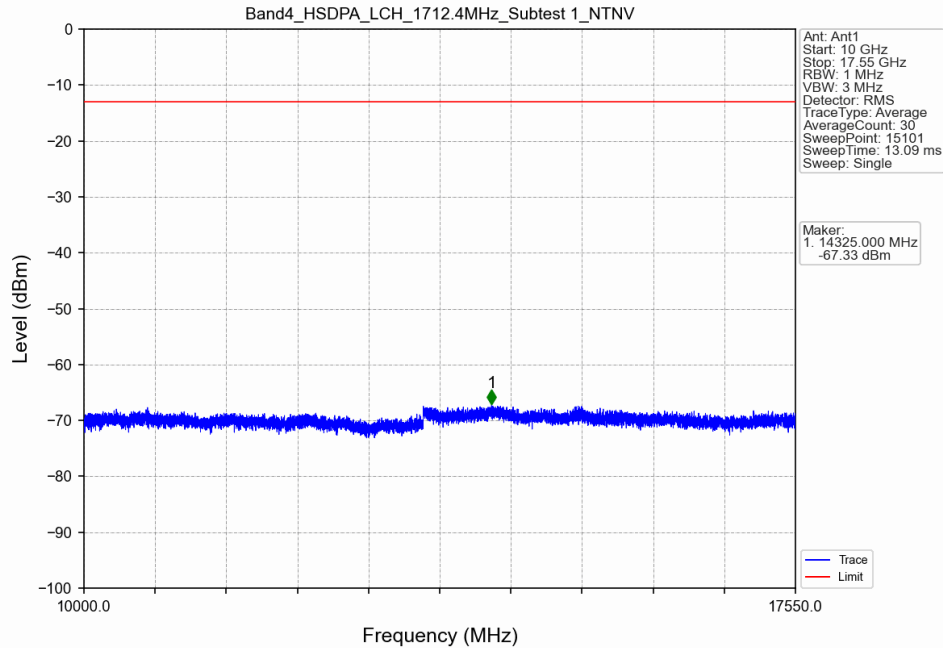
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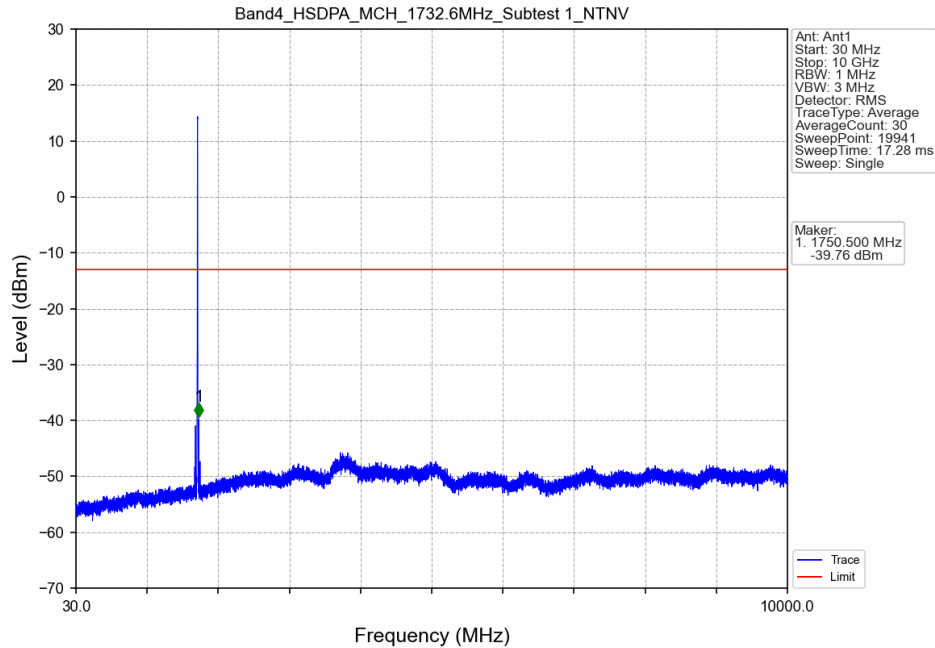
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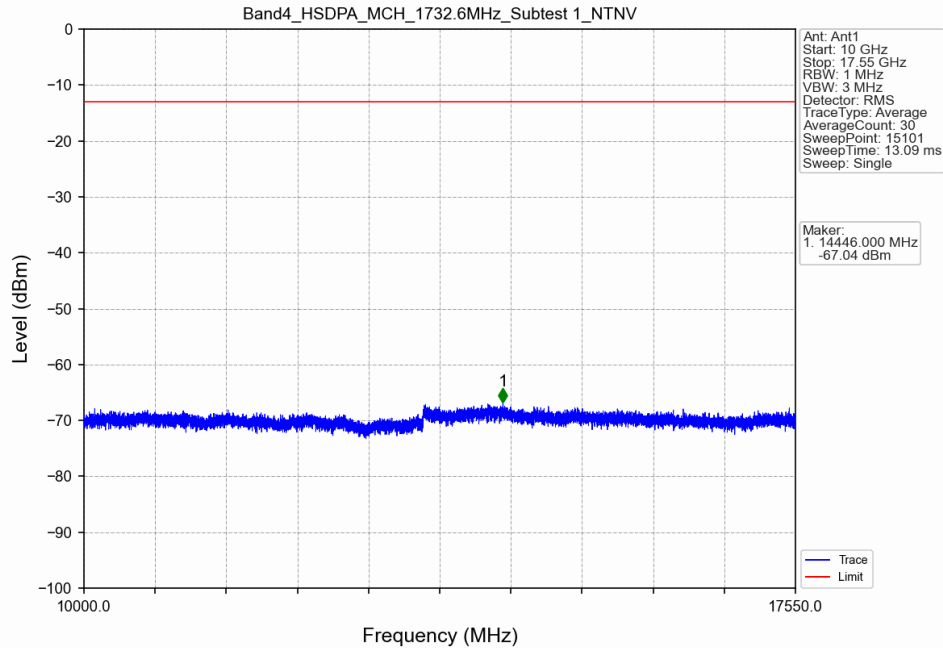
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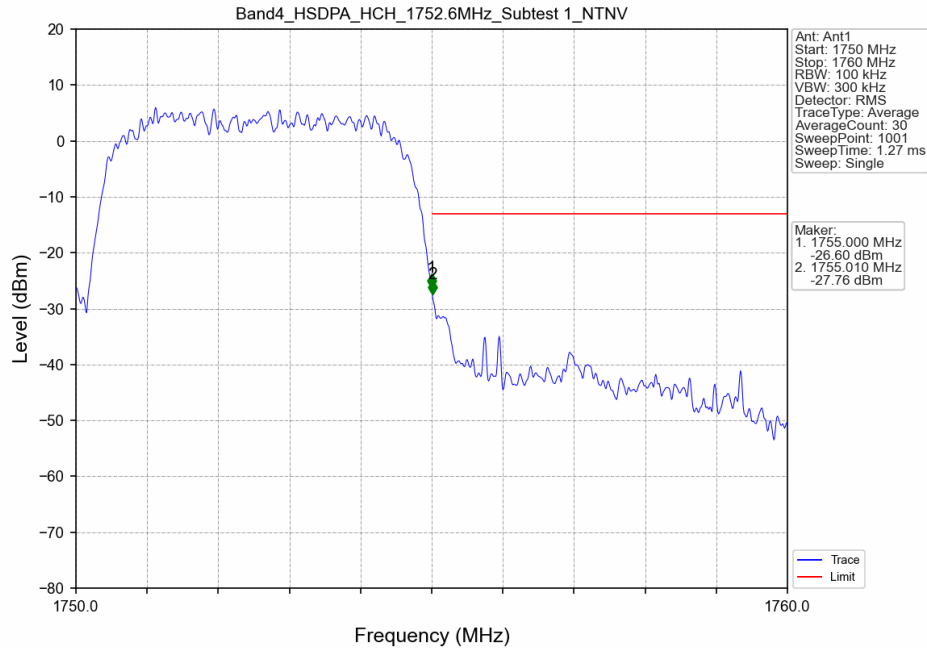
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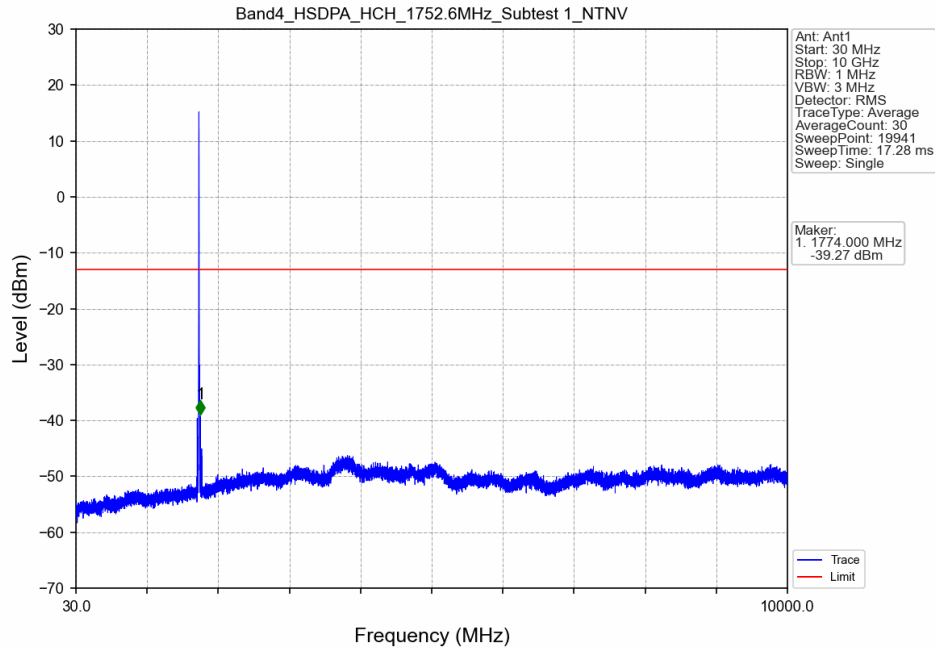
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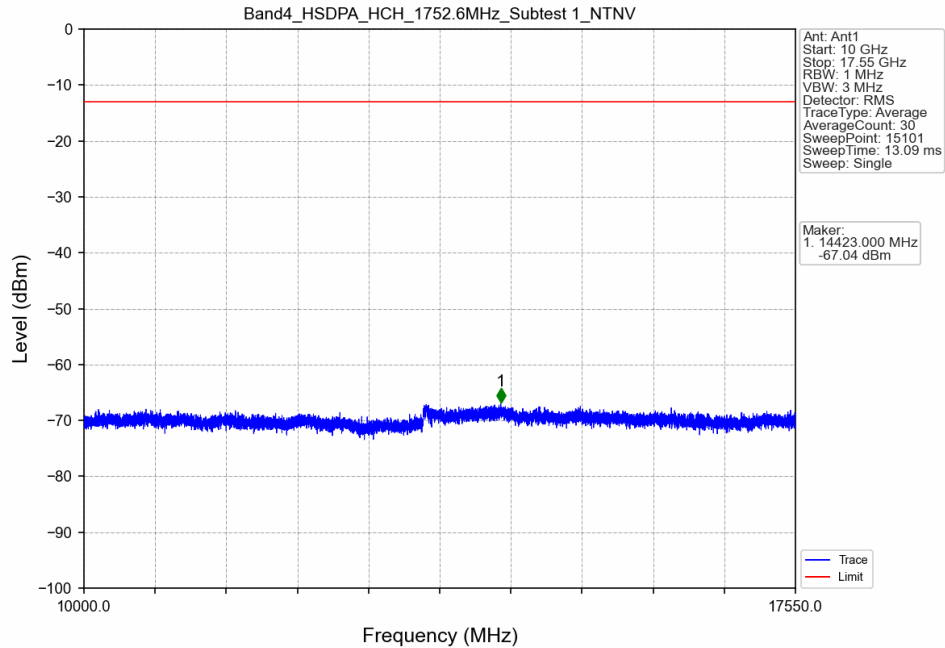
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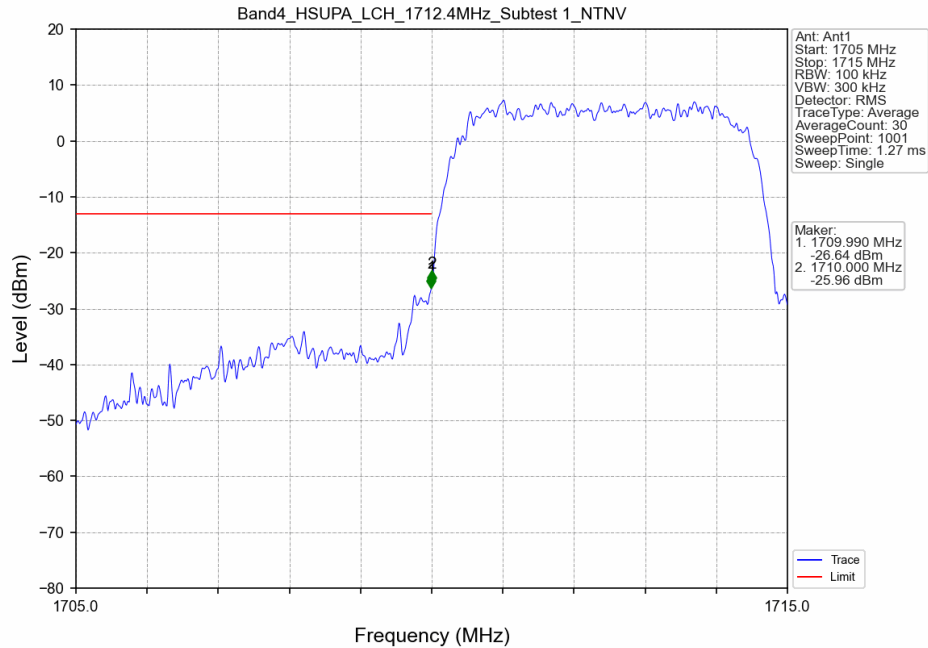
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Band IV_HSUPA_LCH_1712.4MHz_Subtest 1_NTNV



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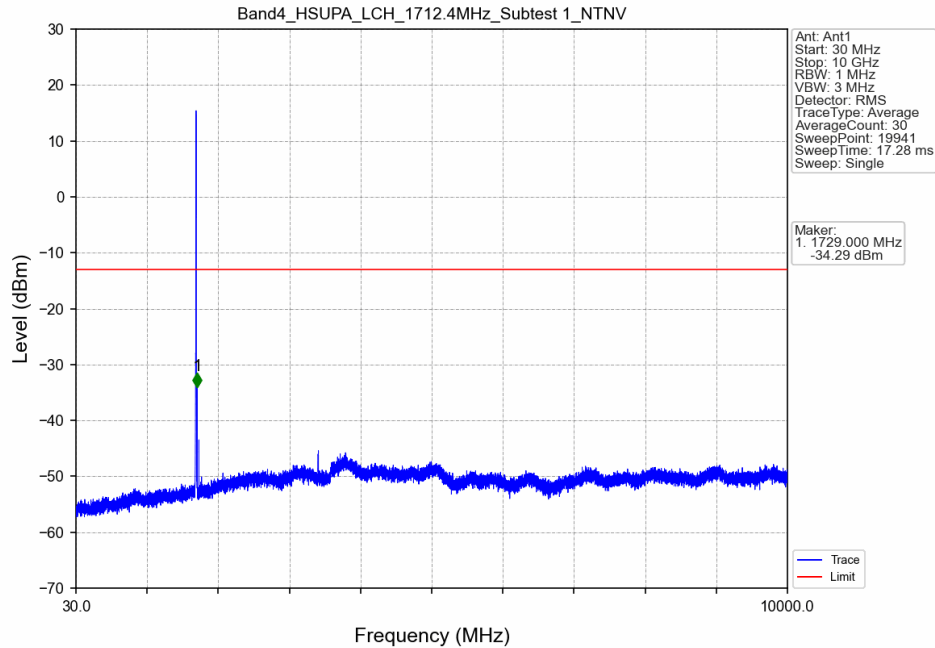
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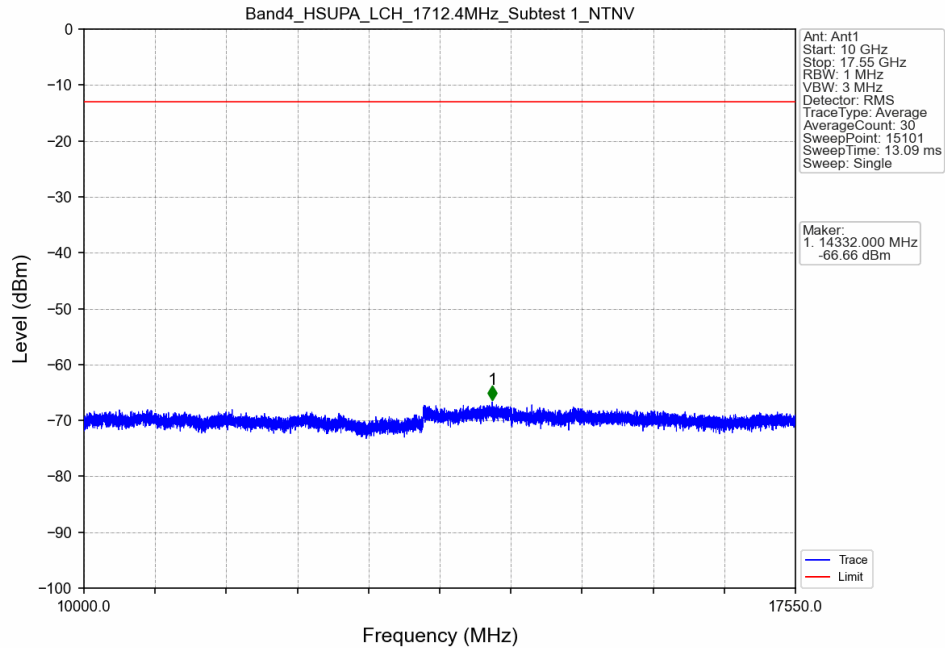
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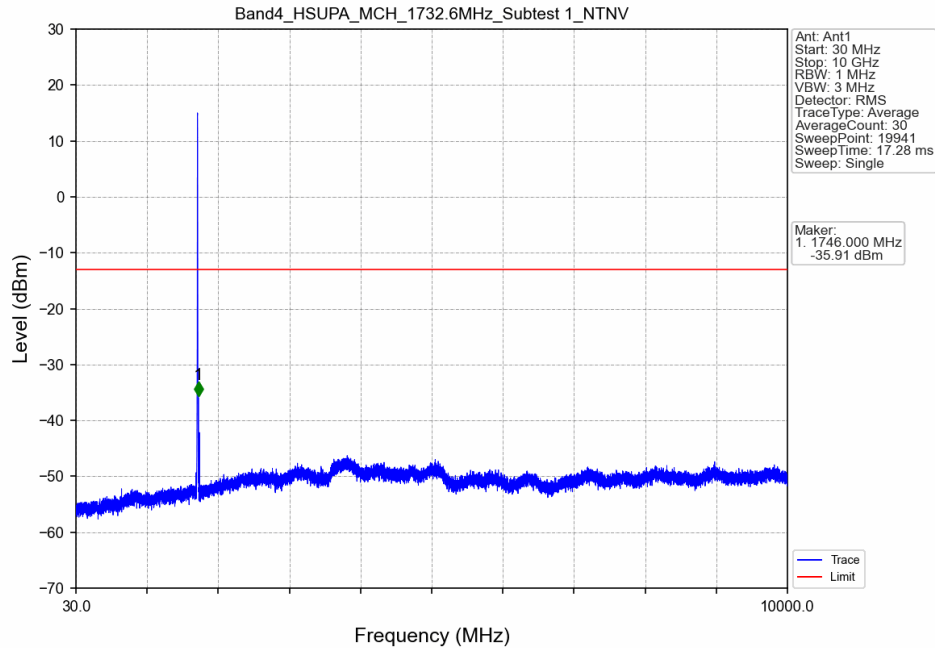
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Band IV_HSUPA_MCH_1732.6MHz_Subtest 1_NTNV



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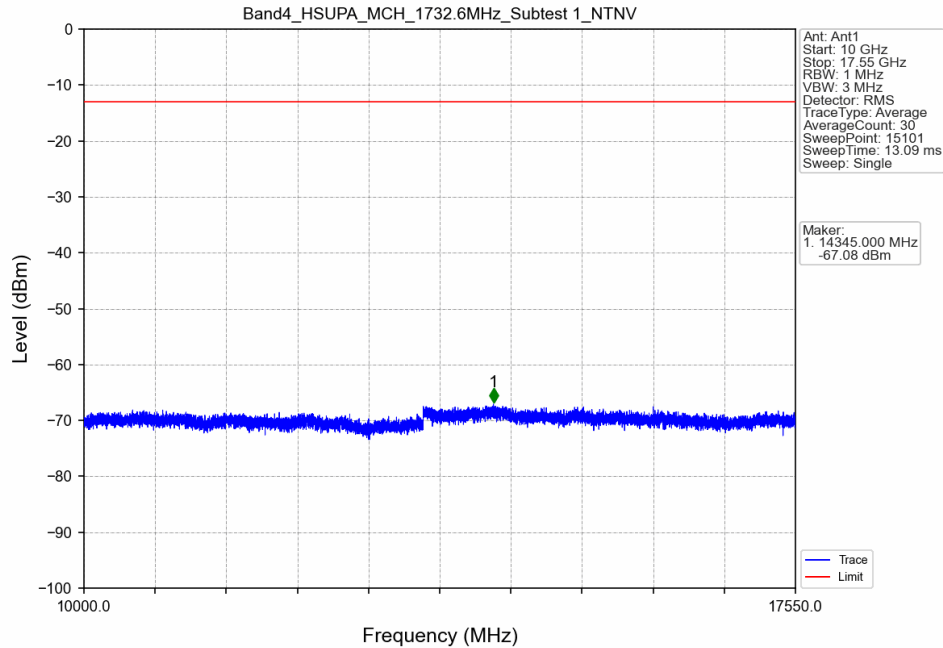
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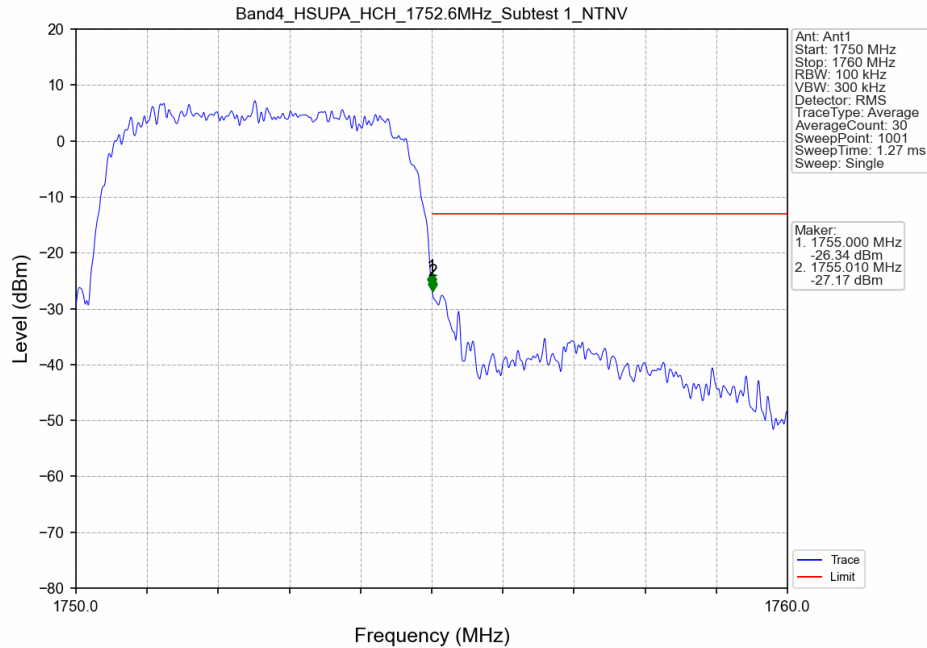
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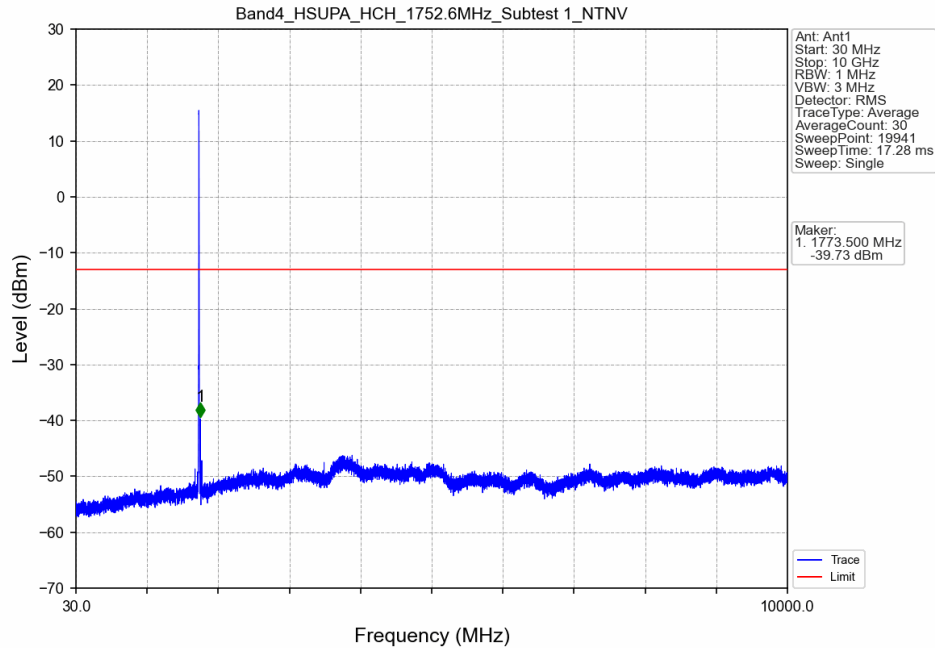
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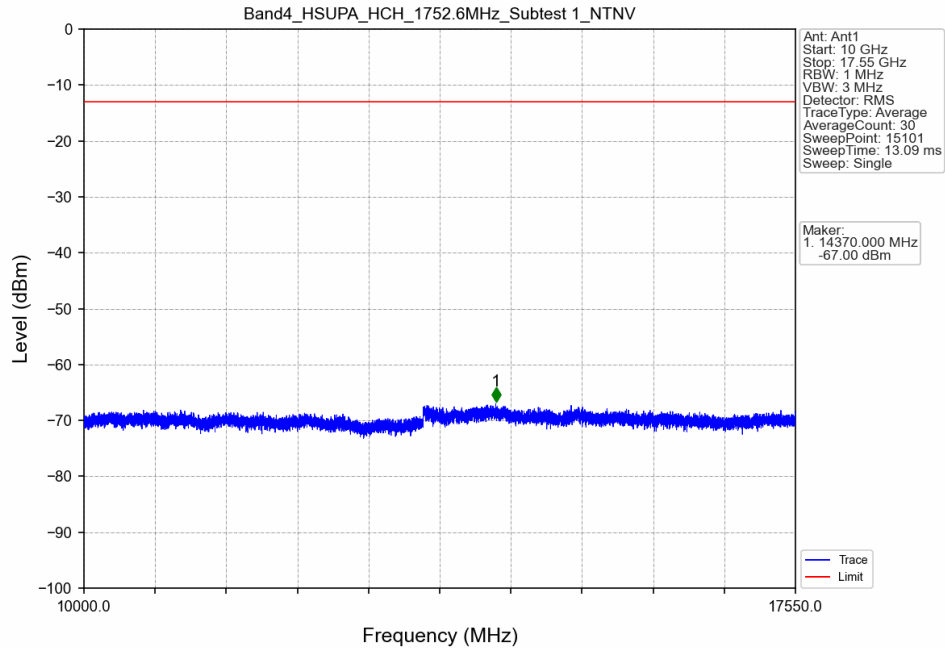
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6. Field Strength of Spurious Radiation

Test Band = Band IV _ TM1
Test Channel = low

Freq (MHz)	LISN_Factor (dB)	Cable_Loss (dB)	Preamp_Gain (dB)	Read_Level (dBm)	Level (dBm)	Limit_Line (dBm)	Over -13DBM	Polarity
3424.8	32.1	6.13	36.12	-63.74	-50.33	-13	-37.33	Horizontal
5137.2	33.93	7.54	35.32	-63.95	-46.32	-13	-33.32	Horizontal
6849.6	35.5	8.81	35.48	-64.7	-45.33	-13	-32.33	Horizontal
Freq (MHz)	LISN_Factor (dB)	Cable_Loss (dB)	Preamp_Gain (dB)	Read_Level (dBm)	Level (dBm)	Limit_Line (dBm)	Over -13DBM	Polarity
3424.8	32.1	6.13	36.12	-63.08	-49.67	-13	-36.67	Vertical
5137.2	33.93	7.54	35.32	-64.33	-46.7	-13	-33.7	Vertical
6849.6	35.5	8.81	35.48	-64.42	-45.05	-13	-32.05	Vertical



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Test Band = Band IV _ TM1
Test Channel = mid

Freq (MHz)	LISN_Factor (dB)	Cable_Loss (dB)	Preamplifier_Gain (dB)	Read_Level (dBm)	Level (dBm)	Limit_Line (dBm)	Over -13DBM	Polarity
3465.2	31.74	6.18	36.12	-63.26	-50.18	-13	-37.18	Horizontal
5197.8	34	7.59	35.29	-64.94	-47.22	-13	-34.22	Horizontal
6930.4	35.72	8.87	35.53	-64.63	-44.89	-13	-31.89	Horizontal
Freq (MHz)	LISN_Factor (dB)	Cable_Loss (dB)	Preamplifier_Gain (dB)	Read_Level (dBm)	Level (dBm)	Limit_Line (dBm)	Over -13DBM	Polarity
3465.2	31.74	6.18	36.12	-63.22	-50.14	-13	-37.14	Vertical
5197.8	34	7.59	35.29	-64.36	-46.64	-13	-33.64	Vertical
6930.4	35.72	8.87	35.53	-64	-44.26	-13	-31.26	Vertical



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Test Band = Band IV _ TM1
Test Channel = high

Freq (MHz)	LISN_Factor (dB)	Cable_Loss (dB)	Preamplifier_Gain (dB)	Read_Level (dBm)	Level (dBm)	Limit_Line (dBm)	Over -13DBM	Polarity
3505.2	31.6	6.23	36.12	-63.54	-50.57	-13	-37.57	Horizontal
5257.8	34.12	7.63	35.25	-64.09	-46.22	-13	-33.22	Horizontal
7010.4	35.7	8.93	35.58	-64.07	-44.24	-13	-31.24	Horizontal
Freq (MHz)	LISN_Factor (dB)	Cable_Loss (dB)	Preamplifier_Gain (dB)	Read_Level (dBm)	Level (dBm)	Limit_Line (dBm)	Over -13DBM	Polarity
3505.2	31.6	6.23	36.12	-63.19	-50.22	-13	-37.22	Vertical
5257.8	34.12	7.63	35.25	-65.65	-47.78	-13	-34.78	Vertical
7010.4	35.7	8.93	35.58	-63.31	-43.48	-13	-30.48	Vertical

Remark:

1) All antennas of RSE are tested, and only the worst data is presented.

---End of Attachment---



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