Appendix H for KSCR2205000668AT-FCC-WCDMA Band4

1. Effective (Isotropic) Radiated Power Output Data

1.1 Band4_EIRP

1.1.1 Test Result

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	23.18	0.44	23.62	<=30	Pass
			1732.6	23.56	0.44	24.00	<=30	Pass
			1752.6	23.67	0.44	24.11	<=30	Pass
	HSDPA	Subtest 1	1712.4	21.18	0.44	21.62	<=30	Pass
		Subtest 2	1712.4	21.18	0.44	21.62	<=30	Pass
		Subtest 3	1712.4	21.13	0.44	21.57	<=30	Pass
		Subtest 4	1712.4	21.12	0.44	21.56	<=30	Pass
		Subtest 1	1732.6	21.39	0.44	21.83	<=30	Pass
		Subtest 2	1732.6	21.38	0.44	21.82	<=30	Pass
		Subtest 3	1732.6	21.37	0.44	21.81	<=30	Pass
		Subtest 4	1732.6	21.32	0.44	21.76	<=30	Pass
		Subtest 1	1752.6	21.45	0.44	21.89	<=30	Pass
		Subtest 2	1752.6	21.47	0.44	21.91	<=30	Pass
		Subtest 3	1752.6	21.45	0.44	21.89	<=30	Pass
		Subtest 4	1752.6	21.39	0.44	21.83	<=30	Pass
	HSUPA	Subtest 1	1712.4	18.87	0.44	19.31	<=30	Pass
		Subtest 2	1712.4	19.09	0.44	19.53	<=30	Pass
		Subtest 3	1712.4	18.88	0.44	19.32	<=30	Pass
		Subtest 4	1712.4	19.15	0.44	19.59	<=30	Pass
		Subtest 5	1712.4	18.89	0.44	19.33	<=30	Pass
		Subtest 1	1732.6	19.61	0.44	20.05	<=30	Pass
		Subtest 2	1732.6	18.69	0.44	19.13	<=30	Pass
		Subtest 3	1732.6	19.50	0.44	19.94	<=30	Pass
		Subtest 4	1732.6	18.81	0.44	19.25	<=30	Pass
		Subtest 5	1732.6	19.54	0.44	19.98	<=30	Pass
		Subtest 1	1752.6	19.54	0.44	19.98	<=30	Pass
		Subtest 2	1752.6	18.78	0.44	19.22	<=30	Pass
		Subtest 3	1752.6	19.11	0.44	19.55	<=30	Pass
		Subtest 4	1752.6	18.91	0.44	19.35	<=30	Pass
		Subtest 5	1752.6	19.53	0.44	19.97	<=30	Pass
Note1: EIRP=Conducted Power+Antenna Gain								

2. Frequency Stability

2.1 Band4

2.1.1 Test Result

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Band: 4							
Network	Frequency (MHz)	Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
					Result	Limit	
RMC	1712.4	20	3.46	-13.053	-0.0076	-2.5 to 2.5	Pass
			3.8	-12.774	-0.0075	-2.5 to 2.5	Pass
			4.35	-11.809	-0.0069	-2.5 to 2.5	Pass
		-30	3.8	-11.079	-0.0065	-2.5 to 2.5	Pass
		-20	3.8	-10.607	-0.0062	-2.5 to 2.5	Pass
		-10	3.8	-10.328	-0.0060	-2.5 to 2.5	Pass
		0	3.8	-11.530	-0.0067	-2.5 to 2.5	Pass
		10	3.8	-13.812	-0.0081	-2.5 to 2.5	Pass
		30	3.8	-13.247	-0.0077	-2.5 to 2.5	Pass
		40	3.8	-14.584	-0.0085	-2.5 to 2.5	Pass
		50	3.8	-13.754	-0.0080	-2.5 to 2.5	Pass
	1732.6	20	3.46	-13.039	-0.0075	-2.5 to 2.5	Pass
			3.8	-12.546	-0.0072	-2.5 to 2.5	Pass
			4.35	-12.946	-0.0075	-2.5 to 2.5	Pass
		-30	3.8	-16.301	-0.0094	-2.5 to 2.5	Pass
		-20	3.8	-13.826	-0.0080	-2.5 to 2.5	Pass
		-10	3.8	-15.535	-0.0090	-2.5 to 2.5	Pass
		0	3.8	-14.105	-0.0081	-2.5 to 2.5	Pass
		10	3.8	-14.369	-0.0083	-2.5 to 2.5	Pass
		30	3.8	-14.985	-0.0086	-2.5 to 2.5	Pass
		40	3.8	-12.932	-0.0075	-2.5 to 2.5	Pass
		50	3.8	-14.741	-0.0085	-2.5 to 2.5	Pass
	1752.6	20	3.46	-10.972	-0.0063	-2.5 to 2.5	Pass
			3.8	-10.307	-0.0059	-2.5 to 2.5	Pass
			4.35	-11.394	-0.0065	-2.5 to 2.5	Pass
		-30	3.8	-9.913	-0.0057	-2.5 to 2.5	Pass
		-20	3.8	-12.567	-0.0072	-2.5 to 2.5	Pass
		-10	3.8	-10.493	-0.0060	-2.5 to 2.5	Pass
		0	3.8	-9.799	-0.0056	-2.5 to 2.5	Pass
		10	3.8	-10.965	-0.0063	-2.5 to 2.5	Pass
		30	3.8	-8.969	-0.0051	-2.5 to 2.5	Pass
		40	3.8	-9.634	-0.0055	-2.5 to 2.5	Pass
		50	3.8	-7.904	-0.0045	-2.5 to 2.5	Pass
HSDPA	1712.4	20	3.46	-8.726	-0.0051	-2.5 to 2.5	Pass
			3.8	-13.068	-0.0076	-2.5 to 2.5	Pass
			4.35	-7.403	-0.0043	-2.5 to 2.5	Pass
		-30	3.8	-7.961	-0.0046	-2.5 to 2.5	Pass
		-20	3.8	-11.530	-0.0067	-2.5 to 2.5	Pass
		-10	3.8	-8.168	-0.0048	-2.5 to 2.5	Pass
		0	3.8	-7.861	-0.0046	-2.5 to 2.5	Pass
		10	3.8	-10.536	-0.0062	-2.5 to 2.5	Pass
		30	3.8	-11.816	-0.0069	-2.5 to 2.5	Pass
		40	3.8	-12.116	-0.0071	-2.5 to 2.5	Pass
		50	3.8	-13.647	-0.0080	-2.5 to 2.5	Pass
	1732.6	20	3.46	-13.261	-0.0077	-2.5 to 2.5	Pass
			3.8	-21.966	-0.0127	-2.5 to 2.5	Pass
			4.35	-15.850	-0.0091	-2.5 to 2.5	Pass
		-30	3.8	-19.577	-0.0113	-2.5 to 2.5	Pass
		-20	3.8	-19.655	-0.0113	-2.5 to 2.5	Pass
		-10	3.8	-15.063	-0.0087	-2.5 to 2.5	Pass
		0	3.8	-16.229	-0.0094	-2.5 to 2.5	Pass

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		10	3.8	-16.401	-0.0095	-2.5 to 2.5	Pass
		30	3.8	-16.680	-0.0096	-2.5 to 2.5	Pass
		40	3.8	-13.361	-0.0077	-2.5 to 2.5	Pass
		50	3.8	-12.774	-0.0074	-2.5 to 2.5	Pass
	1752.6	20	3.46	-12.646	-0.0072	-2.5 to 2.5	Pass
			3.8	-17.059	-0.0097	-2.5 to 2.5	Pass
			4.35	-17.145	-0.0098	-2.5 to 2.5	Pass
		-30	3.8	-12.181	-0.0070	-2.5 to 2.5	Pass
		-20	3.8	-13.397	-0.0076	-2.5 to 2.5	Pass
		-10	3.8	-14.999	-0.0086	-2.5 to 2.5	Pass
		0	3.8	-16.136	-0.0092	-2.5 to 2.5	Pass
		10	3.8	-13.089	-0.0075	-2.5 to 2.5	Pass
		30	3.8	-9.942	-0.0057	-2.5 to 2.5	Pass
		40	3.8	-14.205	-0.0081	-2.5 to 2.5	Pass
		50	3.8	-13.998	-0.0080	-2.5 to 2.5	Pass
HSUPA	1712.4	20	3.46	-10.972	-0.0064	-2.5 to 2.5	Pass
			3.8	-11.508	-0.0067	-2.5 to 2.5	Pass
			4.35	-20.478	-0.0120	-2.5 to 2.5	Pass
		-30	3.8	-17.281	-0.0101	-2.5 to 2.5	Pass
		-20	3.8	-15.607	-0.0091	-2.5 to 2.5	Pass
		-10	3.8	-14.942	-0.0087	-2.5 to 2.5	Pass
		0	3.8	-15.836	-0.0092	-2.5 to 2.5	Pass
		10	3.8	-14.784	-0.0086	-2.5 to 2.5	Pass
		30	3.8	-14.513	-0.0085	-2.5 to 2.5	Pass
		40	3.8	-16.873	-0.0099	-2.5 to 2.5	Pass
		50	3.8	-20.499	-0.0120	-2.5 to 2.5	Pass
	1732.6	20	3.46	-11.401	-0.0066	-2.5 to 2.5	Pass
			3.8	-10.850	-0.0063	-2.5 to 2.5	Pass
			4.35	-11.673	-0.0067	-2.5 to 2.5	Pass
		-30	3.8	-8.833	-0.0051	-2.5 to 2.5	Pass
		-20	3.8	-8.218	-0.0047	-2.5 to 2.5	Pass
		-10	3.8	-12.553	-0.0072	-2.5 to 2.5	Pass
		0	3.8	-17.366	-0.0100	-2.5 to 2.5	Pass
		10	3.8	-16.136	-0.0093	-2.5 to 2.5	Pass
		30	3.8	-14.112	-0.0081	-2.5 to 2.5	Pass
		40	3.8	-13.461	-0.0078	-2.5 to 2.5	Pass
		50	3.8	-12.338	-0.0071	-2.5 to 2.5	Pass
	1752.6	20	3.46	-9.313	-0.0053	-2.5 to 2.5	Pass
			3.8	-11.208	-0.0064	-2.5 to 2.5	Pass
			4.35	-13.862	-0.0079	-2.5 to 2.5	Pass
		-30	3.8	-11.473	-0.0065	-2.5 to 2.5	Pass
		-20	3.8	-10.836	-0.0062	-2.5 to 2.5	Pass
		-10	3.8	-8.490	-0.0048	-2.5 to 2.5	Pass
		0	3.8	-9.019	-0.0051	-2.5 to 2.5	Pass
		10	3.8	-4.299	-0.0025	-2.5 to 2.5	Pass
		30	3.8	-5.701	-0.0033	-2.5 to 2.5	Pass
		40	3.8	-8.376	-0.0048	-2.5 to 2.5	Pass
		50	3.8	-5.157	-0.0029	-2.5 to 2.5	Pass

3. Modulation Characteristics

3.1 Band4

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3.1.1 Test Result

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

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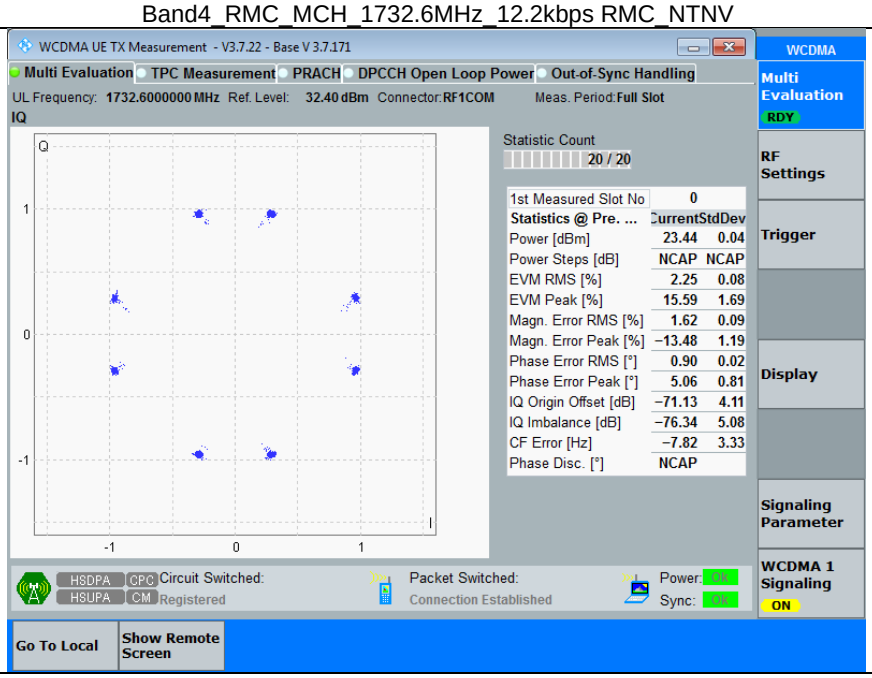
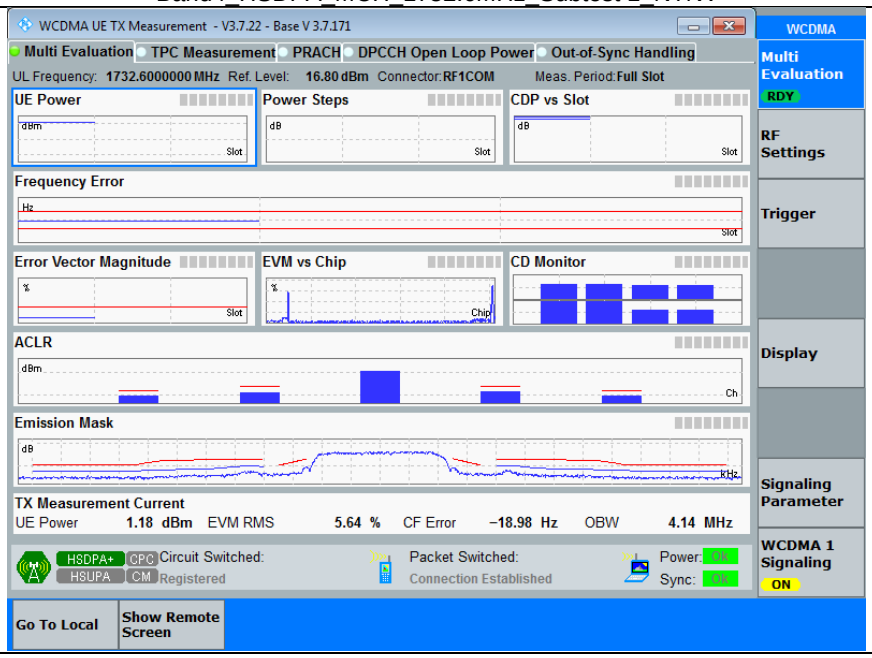
3.1.2 Test Graph

Band4_RMC_MCH_1732.6MHz_12.2kbps RMC_NTNV



Band4_HSDPA_MCH_1732.6MHz_Subtest 1_NTNV



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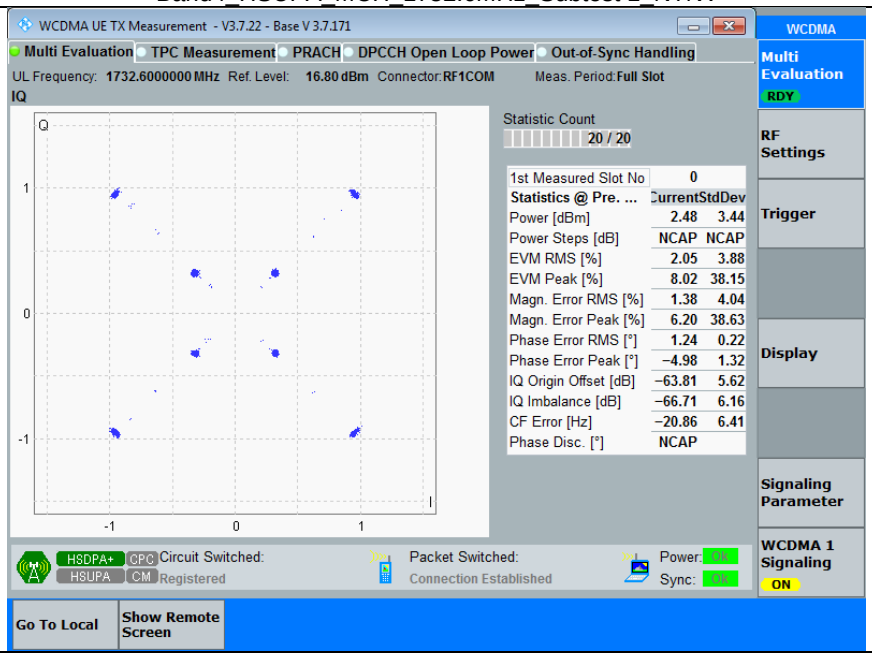
Band4_HSUPA_MCH_1732.6MHz_Subtest 1_NTNV



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4. 99% & 26dB Bandwidth

4.1 Band4_OBW

4.1.1 Test Result

Band: 4					
ENV	Mode		Frequency (MHz)	99% Occupied Bandwidth (MHz)	Verdict
	Network	Subset		Result	
NTNV	RMC	12.2kbps RMC	1712.4	4.171	Pass
			1732.6	4.175	Pass
			1752.6	4.187	Pass
	HSDPA	Subtest 1	1712.4	4.254	Pass
			1732.6	4.231	Pass
			1752.6	4.244	Pass
	HSUPA	Subtest 1	1712.4	4.254	Pass
			1732.6	4.240	Pass
			1752.6	4.262	Pass

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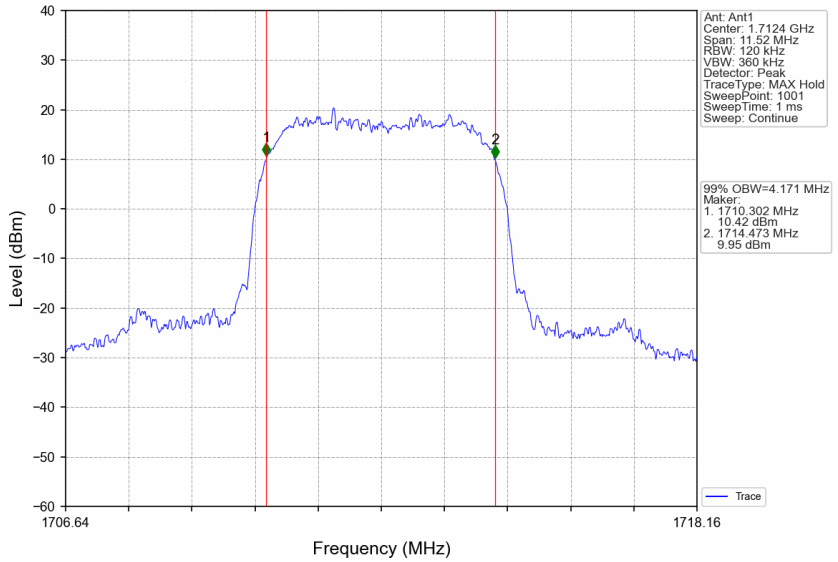
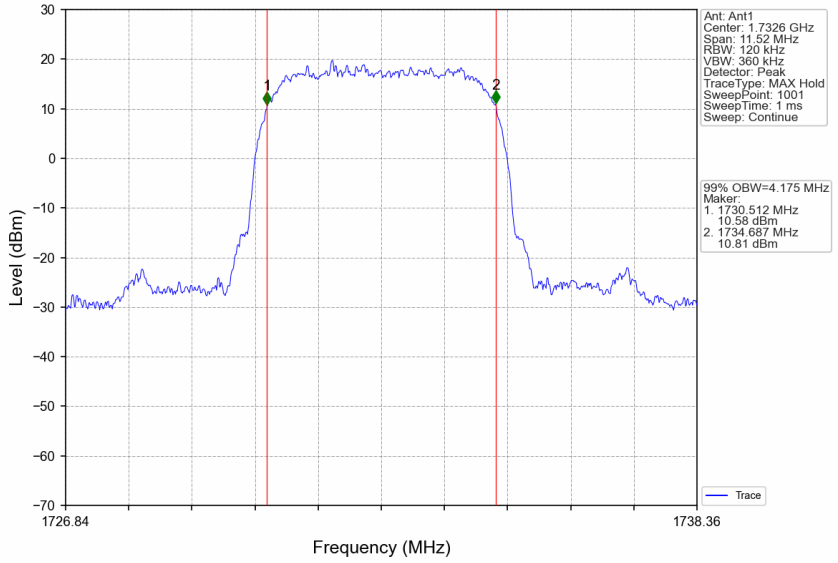
4.1.2 Test Graph

Band4_RMC_LCH_1712.4MHz_12.2kbps RMC_NTNV



Band4_RMC_MCH_1732.6MHz_12.2kbps RMC_NTNV



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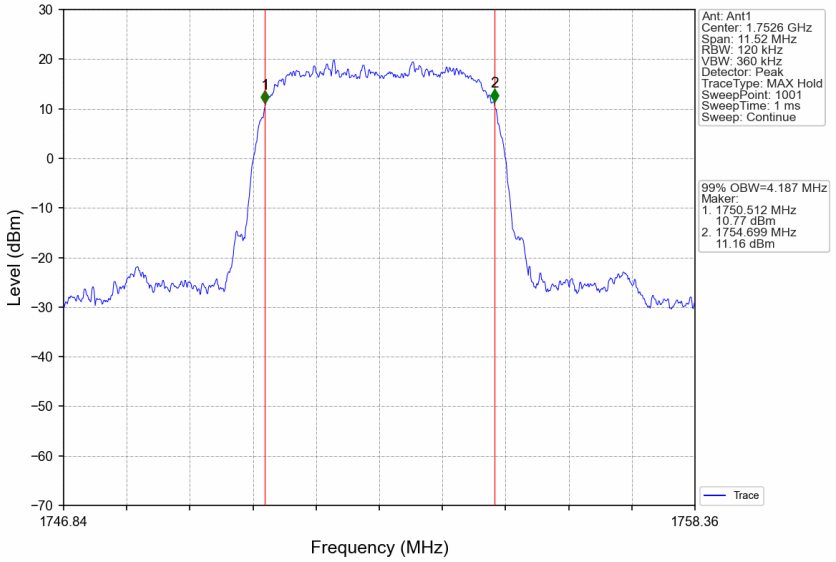
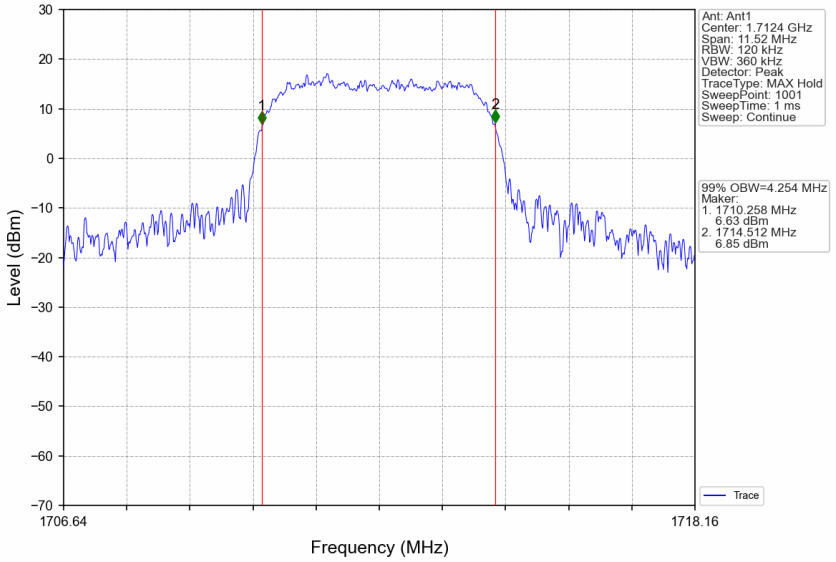
Band4_RMC_HCH_1752.6MHz_12.2kbps RMC_NTNV



Band4_HSDPA_LCH_1712.4MHz_Subtest 1_NTNV



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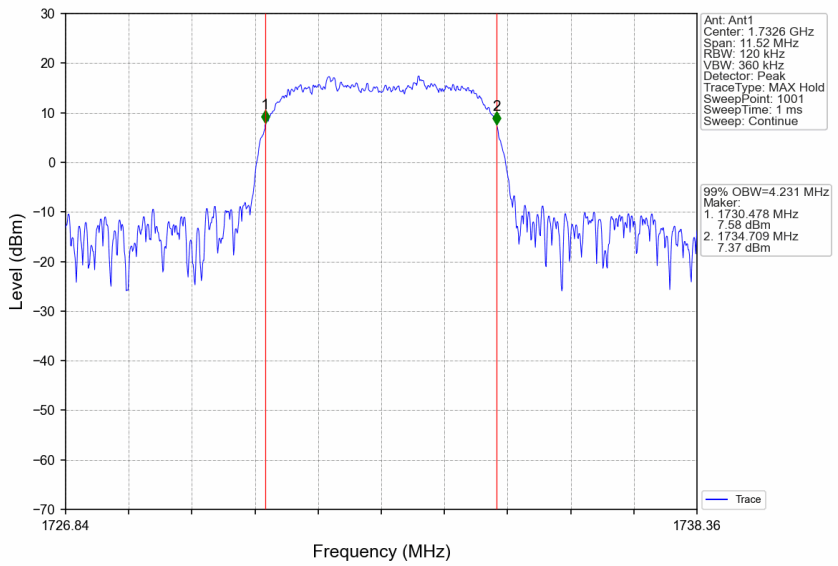
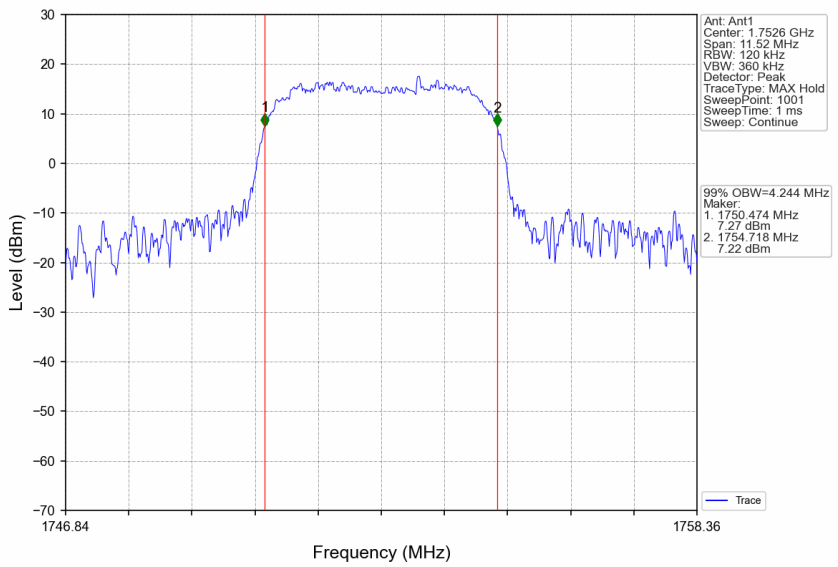
Band4_HSDPA_MCH_1732.6MHz_Subtest 1_NTNV



Band4_HSDPA_HCH_1752.6MHz_Subtest 1_NTNV



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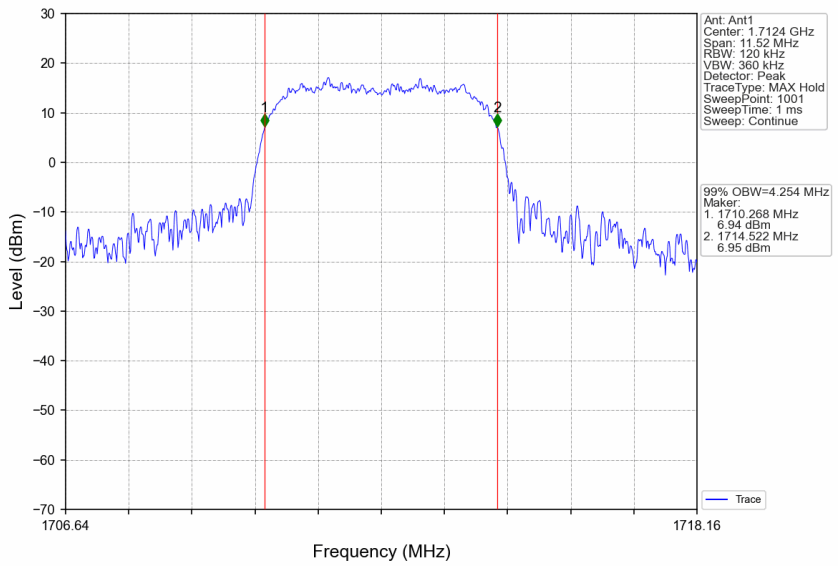
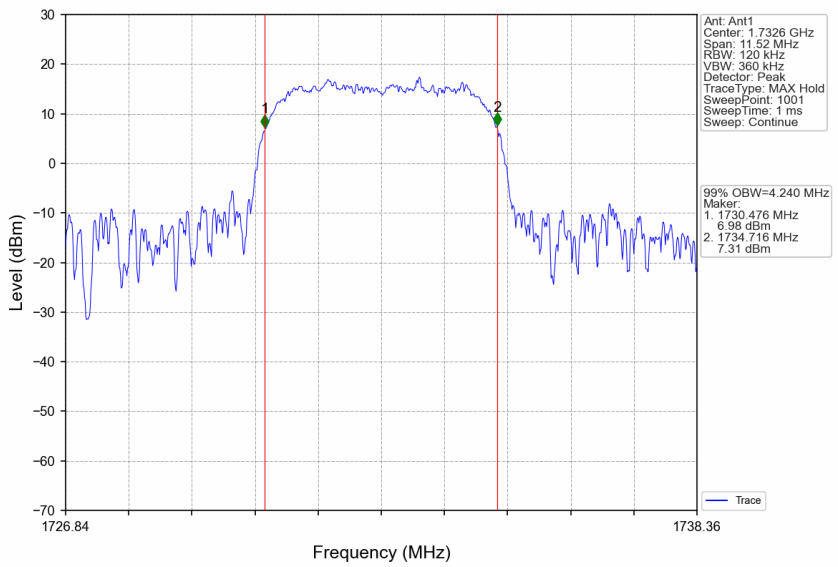
Band4_HSUPA_LCH_1712.4MHz_Subtest 1_NTNV



Band4_HSUPA_MCH_1732.6MHz_Subtest 1_NTNV



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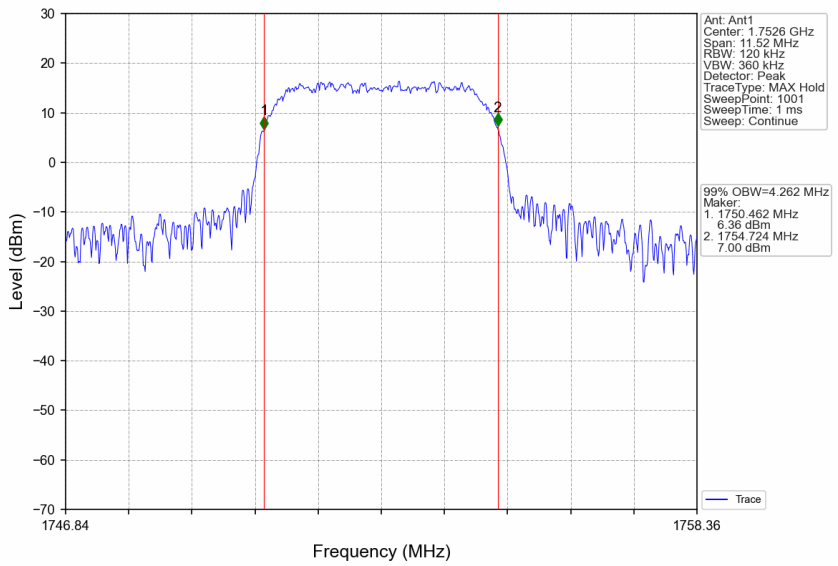
Band4_HSUPA_HCH_1752.6MHz_Subtest 1_NTNV



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4.2 Band4_XDB

4.2.1 Test Result

Band: 4					
ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)	Verdict
	Network	Subset		Result	
NTNV	RMC	12.2kbps RMC	1712.4	4.705	Pass
			1732.6	4.722	Pass
			1752.6	4.722	Pass
	HSDPA	Subtest 1	1712.4	5.656	Pass
			1732.6	4.948	Pass
			1752.6	5.009	Pass
	HSUPA	Subtest 1	1712.4	6.709	Pass
			1732.6	6.952	Pass
			1752.6	6.737	Pass

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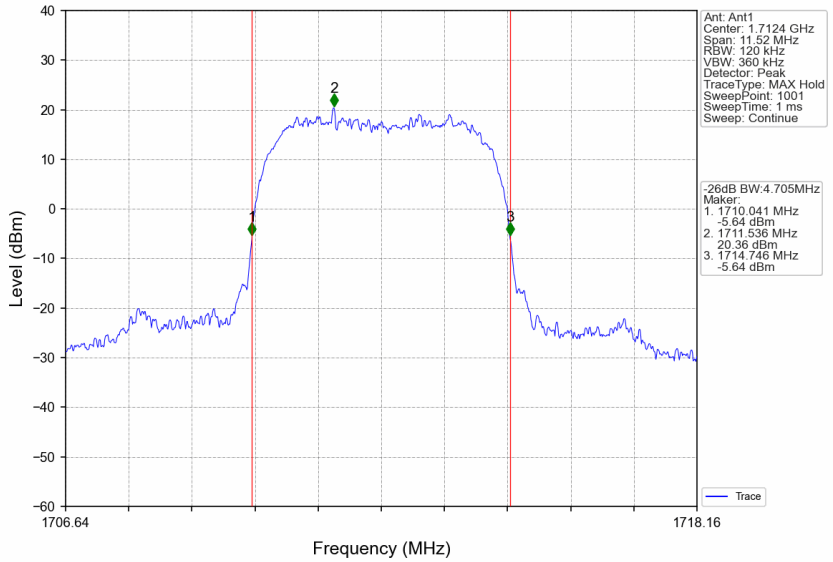
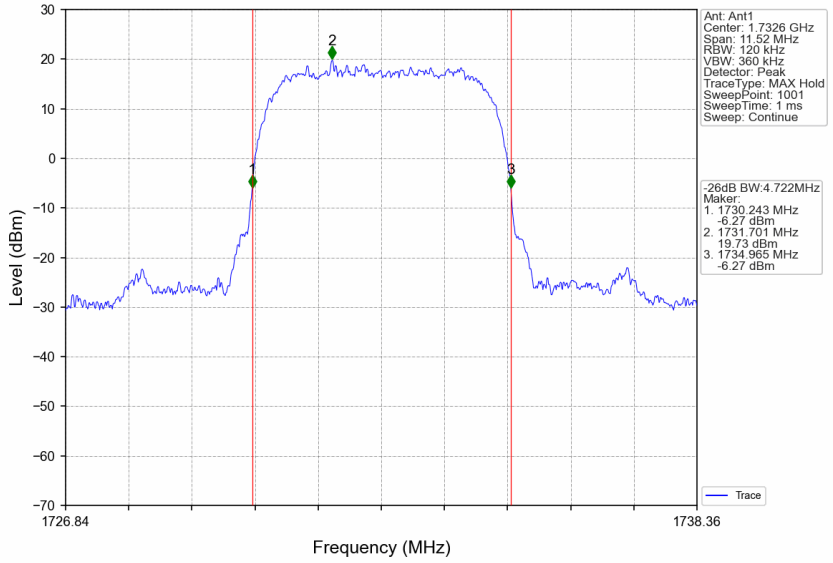
4.2.2 Test Graph

Band4_RMC_LCH_1712.4MHz_12.2kbps RMC_NTNV



Band4_RMC_MCH_1732.6MHz_12.2kbps RMC_NTNV



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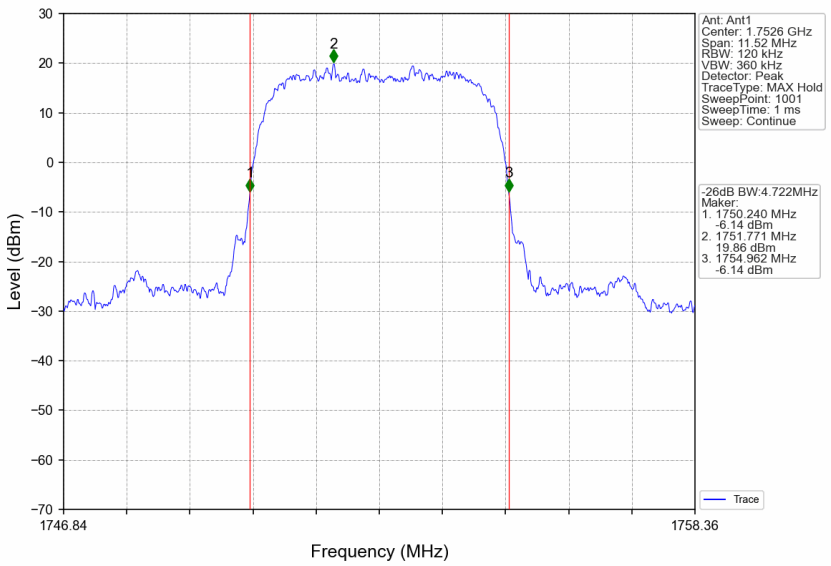
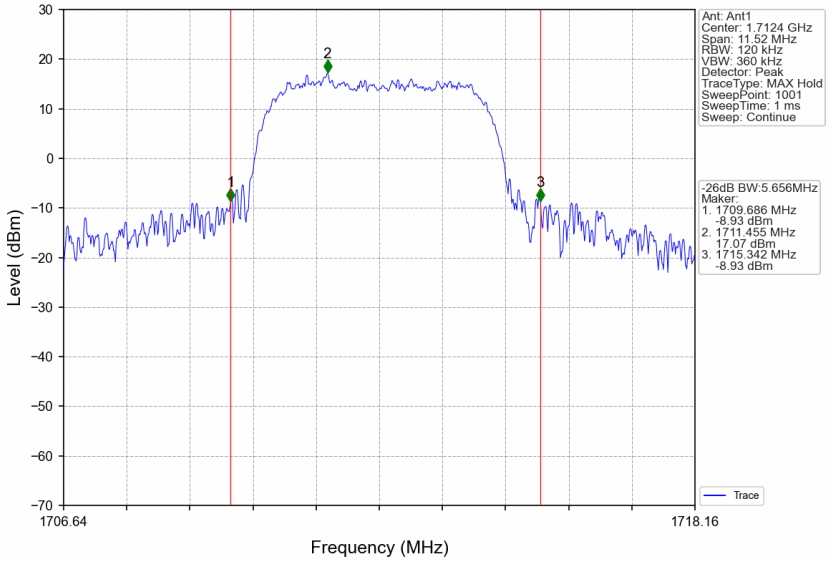
Band4_RMC_HCH_1752.6MHz_12.2kbps RMC_NTNV



Band4_HSDPA_LCH_1712.4MHz_Subtest 1_NTNV



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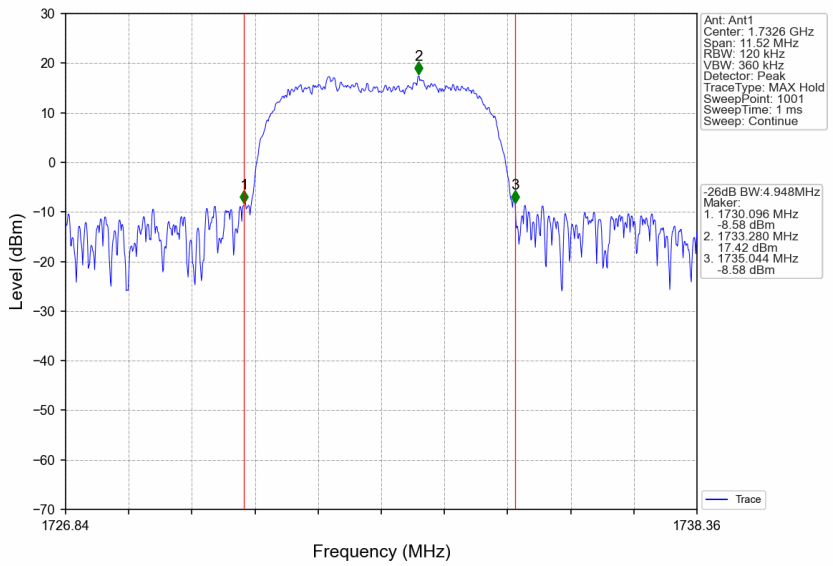
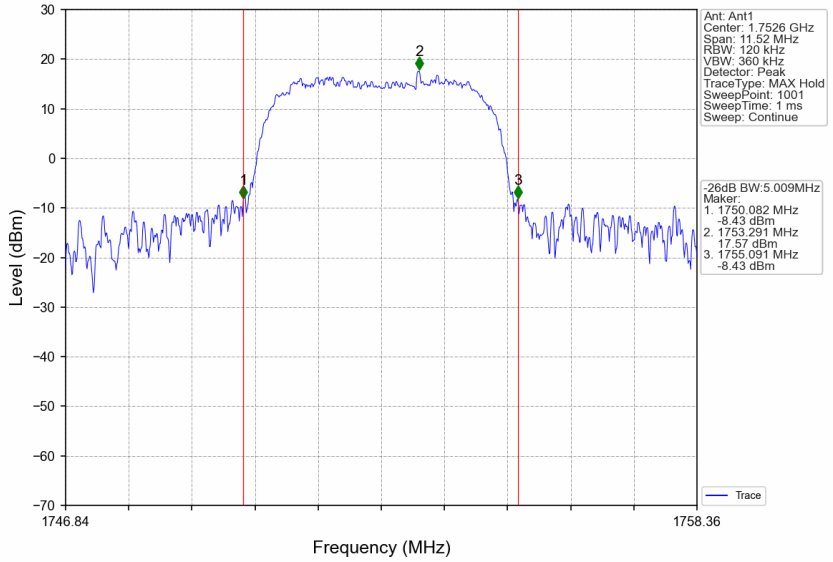
Band4_HSDPA_MCH_1732.6MHz_Subtest 1_NTNV



Band4_HSDPA_HCH_1752.6MHz_Subtest 1_NTNV



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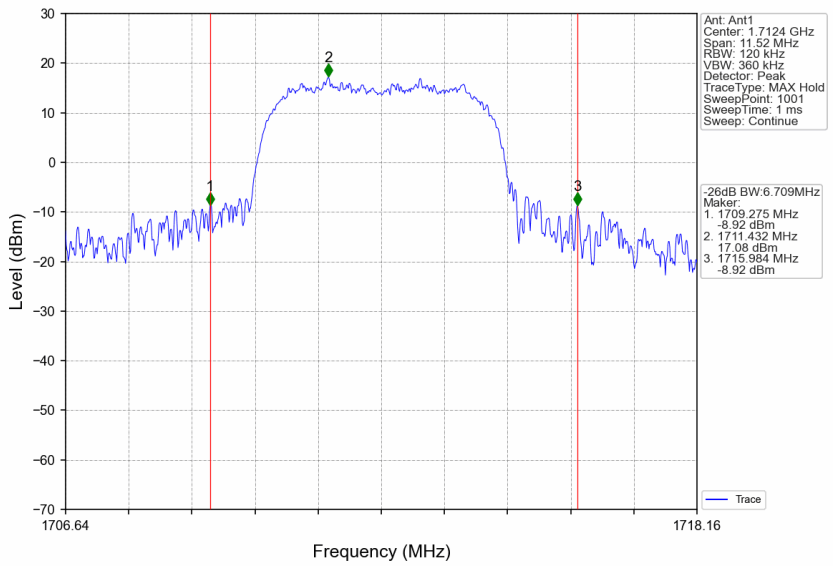
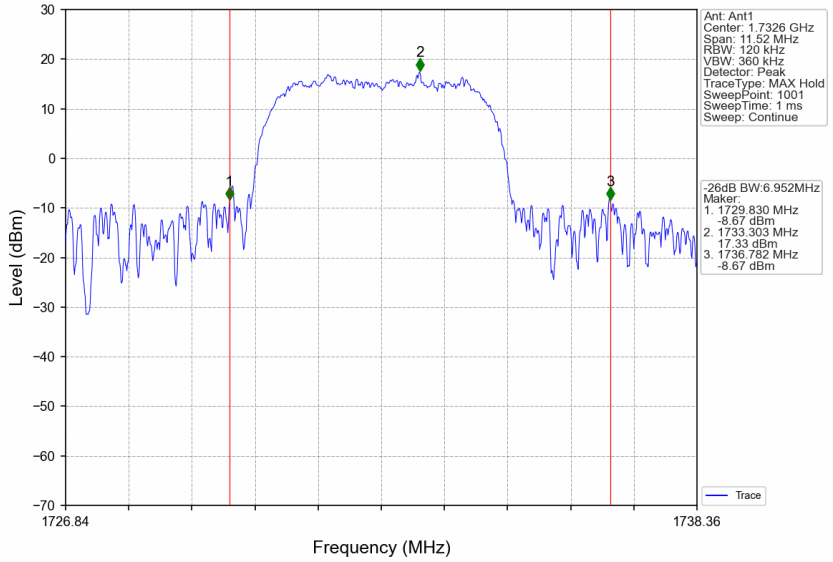
Band4_HSUPA_LCH_1712.4MHz_Subtest 1_NTNV



Band4_HSUPA_MCH_1732.6MHz_Subtest 1_NTNV



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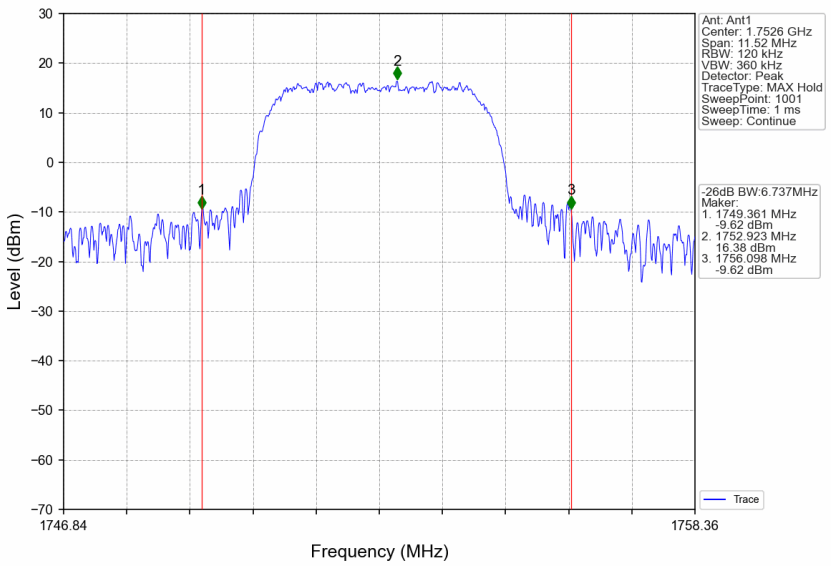
Band4_HSUPA_HCH_1752.6MHz_Subtest 1_NTNV



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5. Peak-Average Ratio

5.1 Band4

5.1.1 Test Result

Band: 4						
ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1712.4	3.08	<=13	Pass
			1732.6	3.00	<=13	Pass
			1752.6	3.03	<=13	Pass
	HSDPA	Subtest 1	1712.4	6.06	<=13	Pass
			1732.6	5.99	<=13	Pass
			1752.6	5.98	<=13	Pass
	HSUPA	Subtest 1	1712.4	6.08	<=13	Pass
			1732.6	5.99	<=13	Pass
			1752.6	6.03	<=13	Pass

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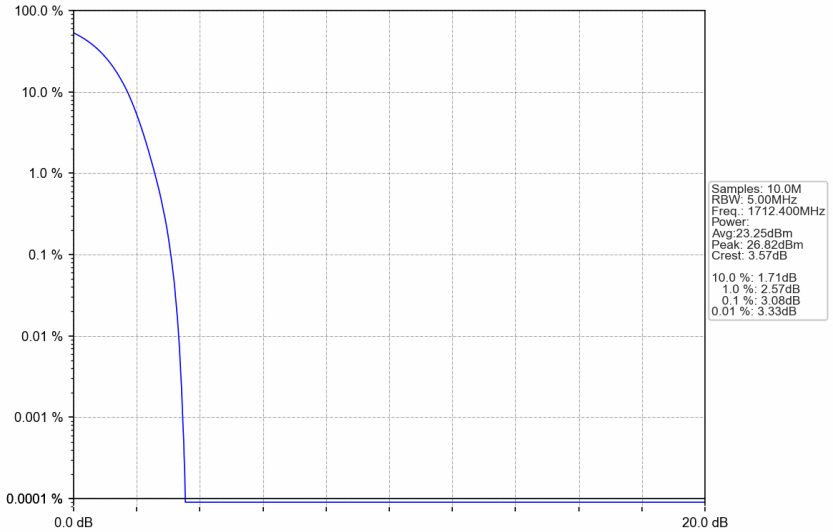
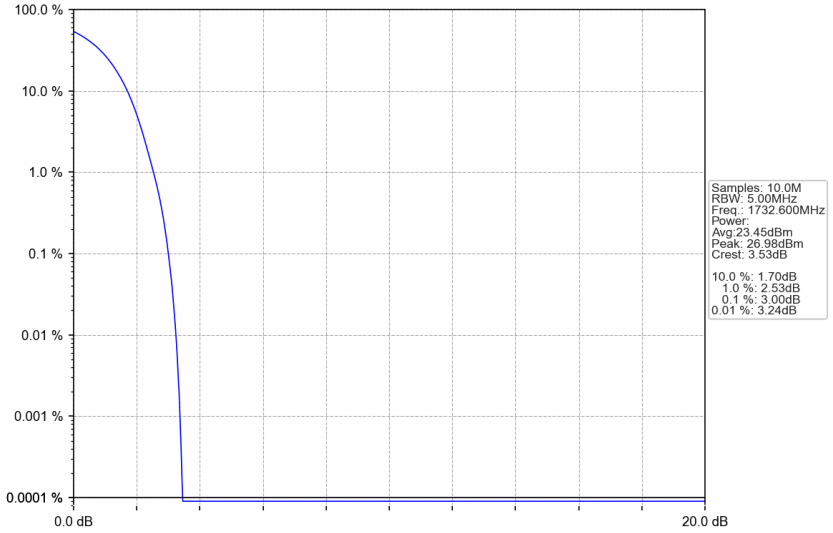
5.1.2 Test Graph

Band4_RMC_LCH_1712.4MHz_12.2kbps RMC_NTNV



Band4_RMC_MCH_1732.6MHz_12.2kbps RMC_NTNV



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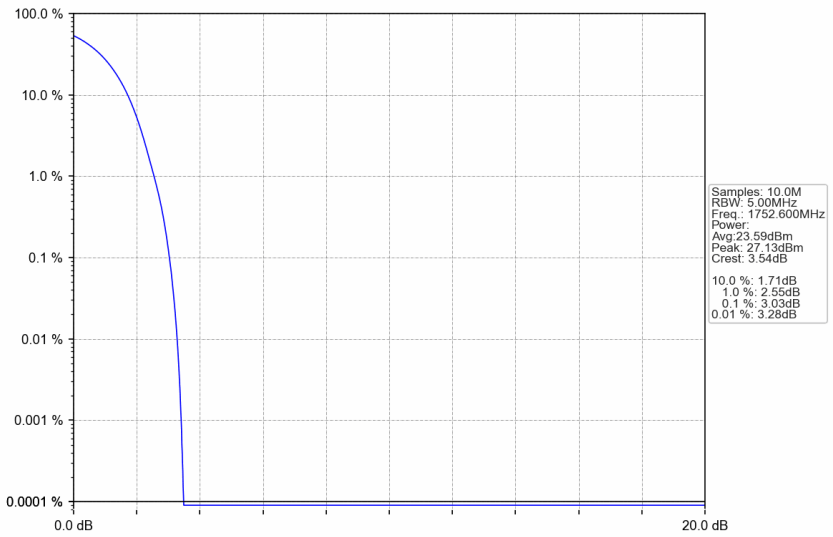
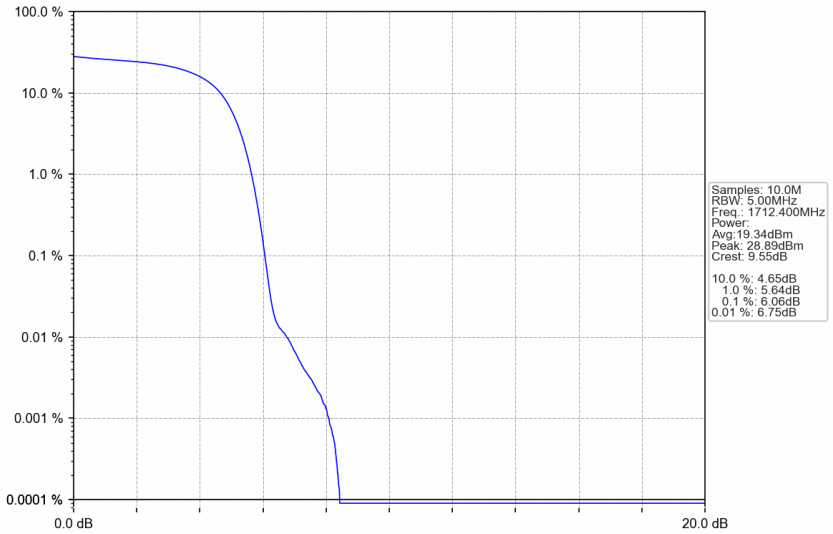
Band4_RMC_HCH_1752.6MHz_12.2kbps RMC_NTNV



Band4_HSDPA_LCH_1712.4MHz_Subtest 1_NTNV



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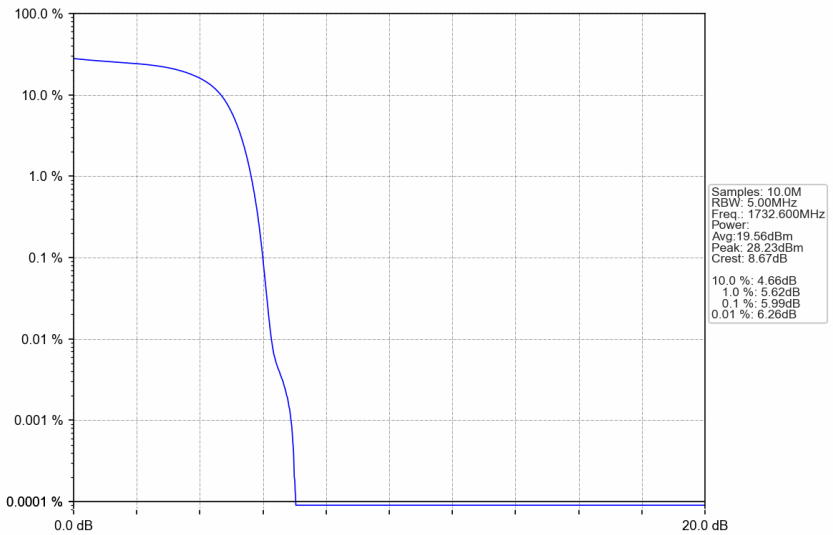
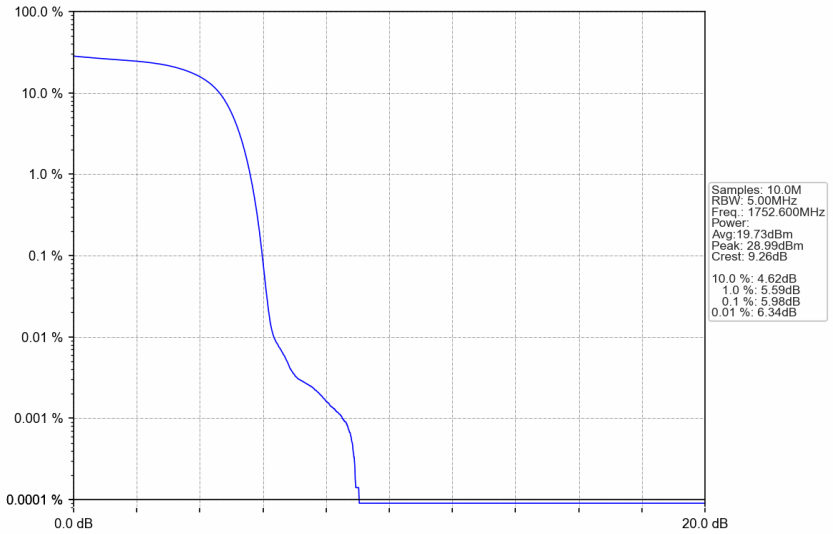
Band4_HSDPA_MCH_1732.6MHz_Subtest 1_NTNV



Band4_HSDPA_HCH_1752.6MHz_Subtest 1_NTNV



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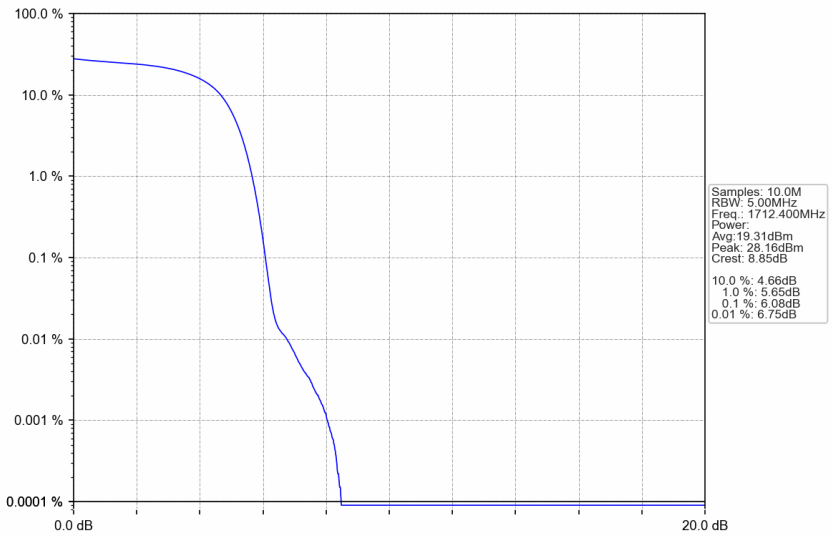
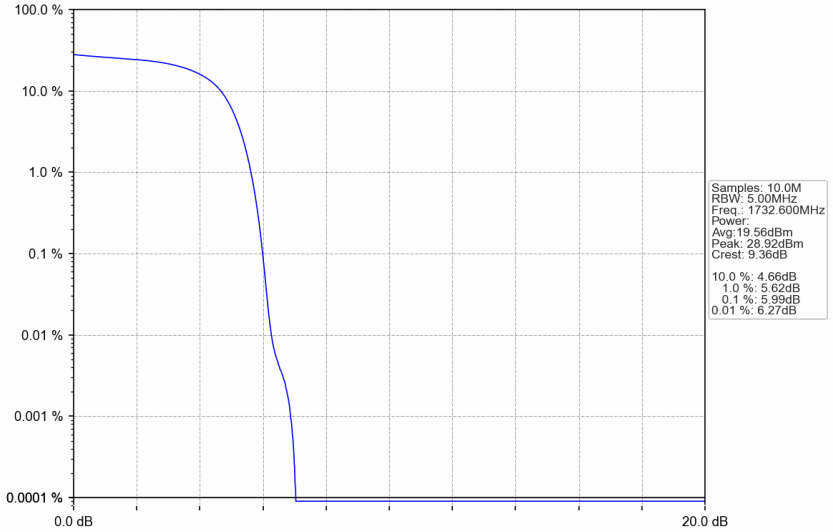
Band4_HSUPA_LCH_1712.4MHz_Subtest 1_NTNV



Band4_HSUPA_MCH_1732.6MHz_Subtest 1_NTNV



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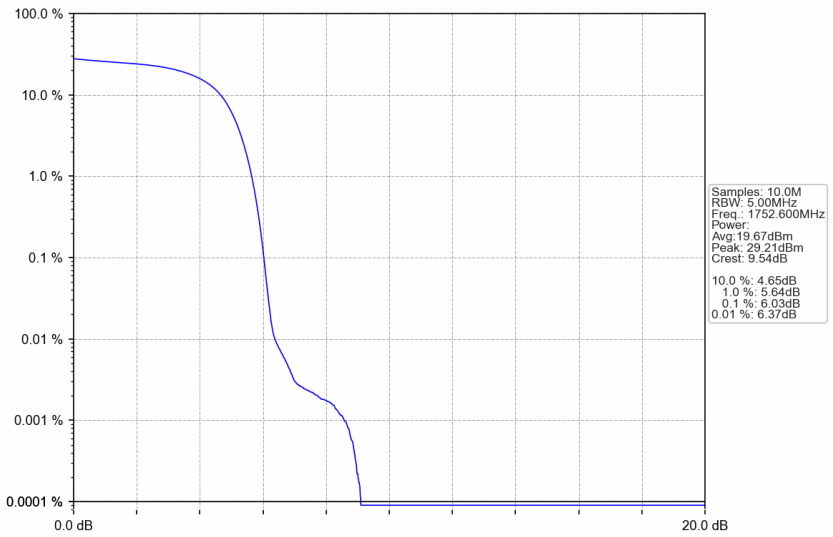
Band4_HSUPA_HCH_1752.6MHz_Subtest 1_NTNV



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6. Spurious Emission

6.1 Band4

6.1.1 Test Result

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

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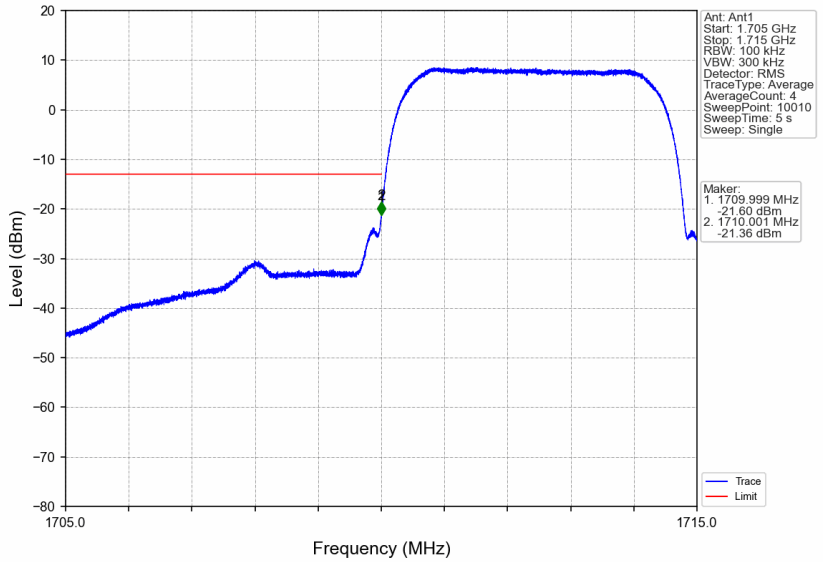
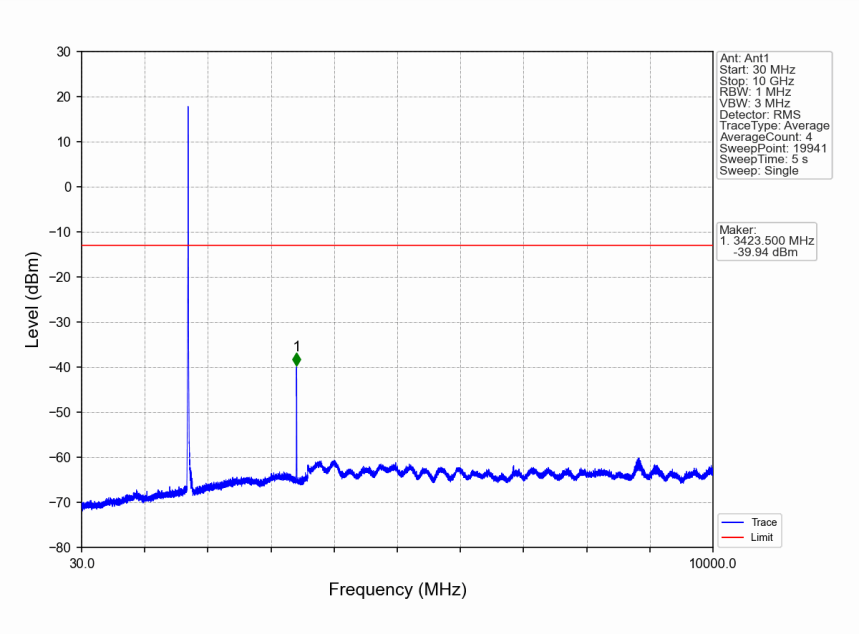
6.1.2 Test Graph

Band4_RMC_LCH_1712.4MHz_12.2kbps RMC_NTNV



Band4_RMC_LCH_1712.4MHz_12.2kbps RMC_NTNV



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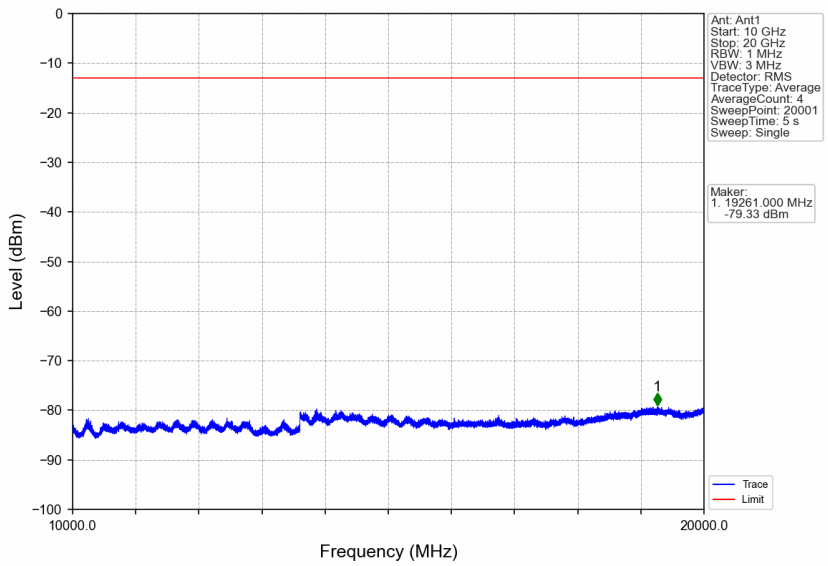
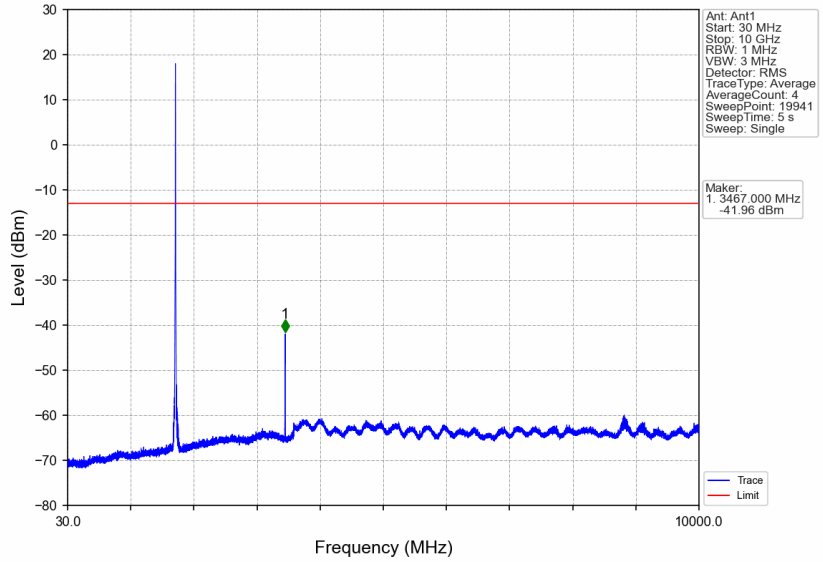


Band4_RMC_MCH_1732.6MHz_12.2kbps RMC_NTNV



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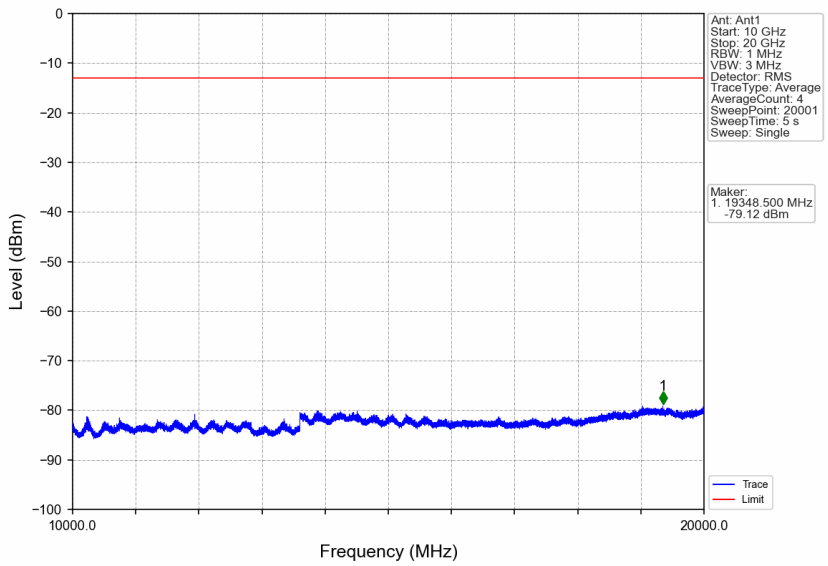
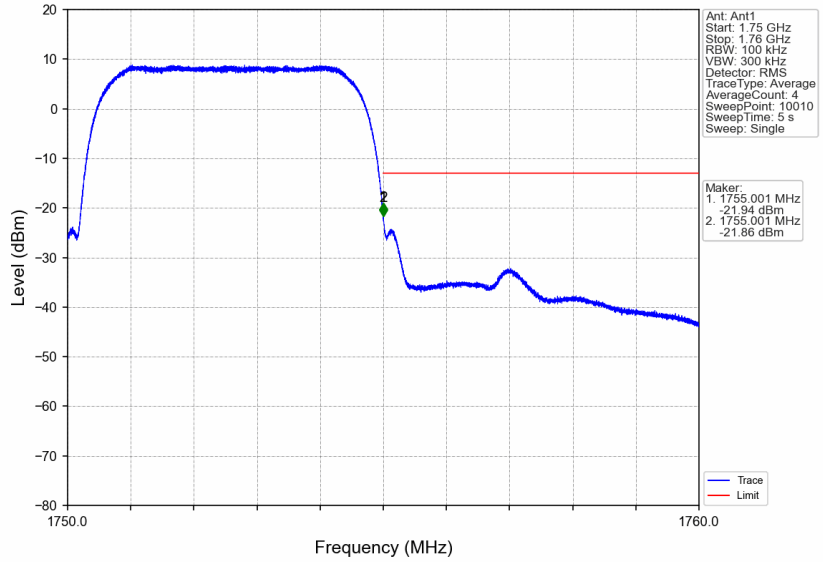


Band4_RMC_HCH_1752.6MHz_12.2kbps RMC_NTNV



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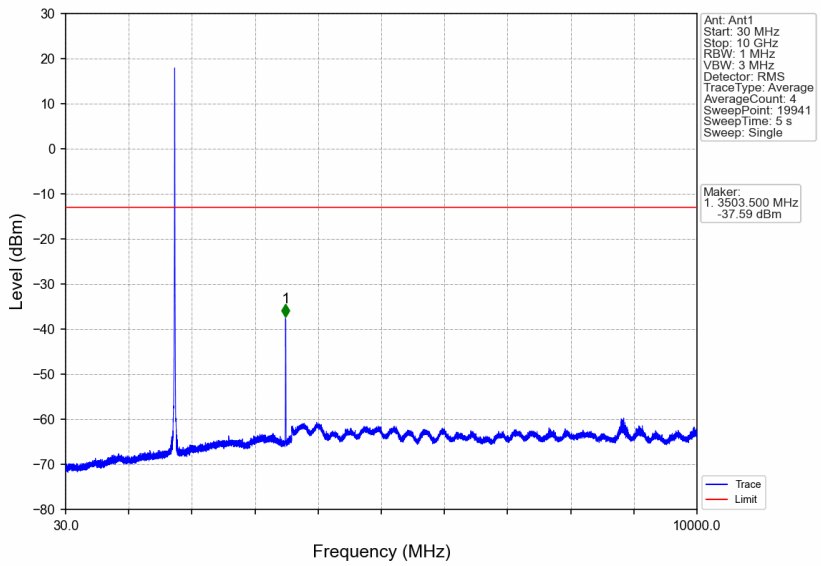
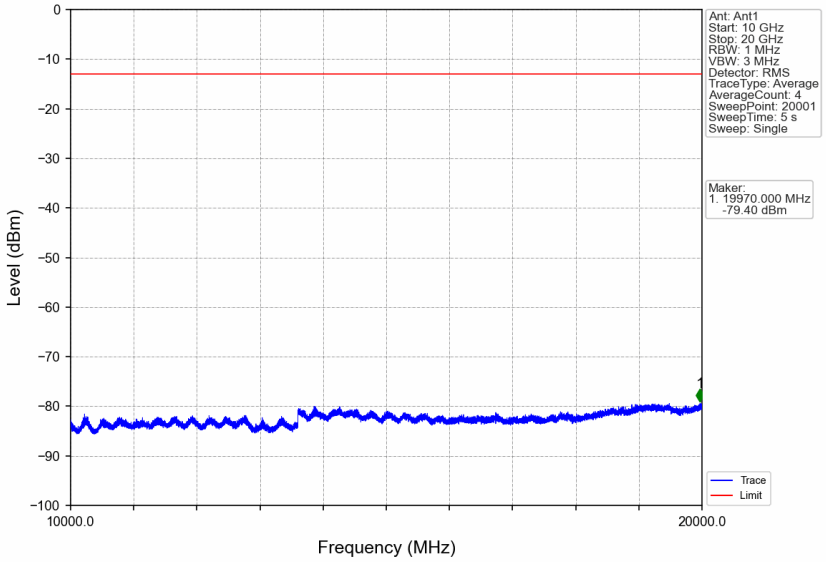
Band4_RMC_HCH_1752.6MHz_12.2kbps RMC_NTNV



Band4_RMC_HCH_1752.6MHz_12.2kbps RMC_NTNV



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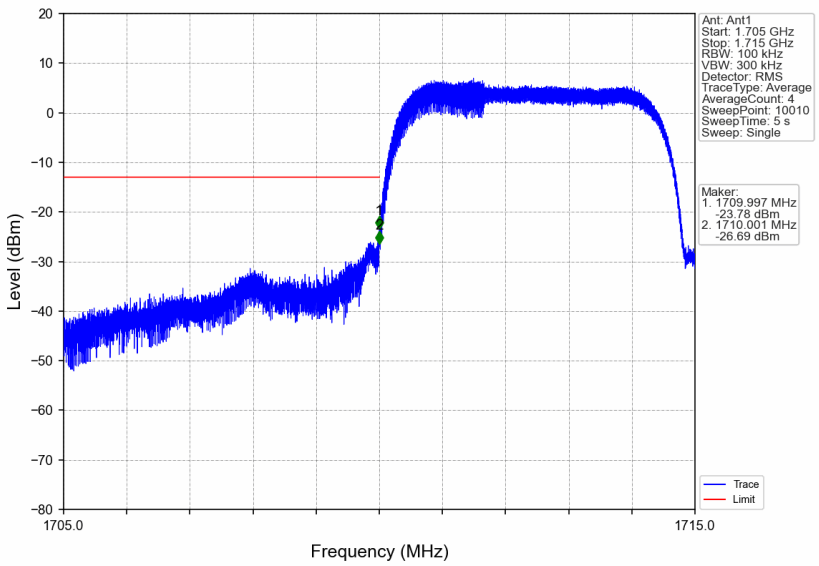
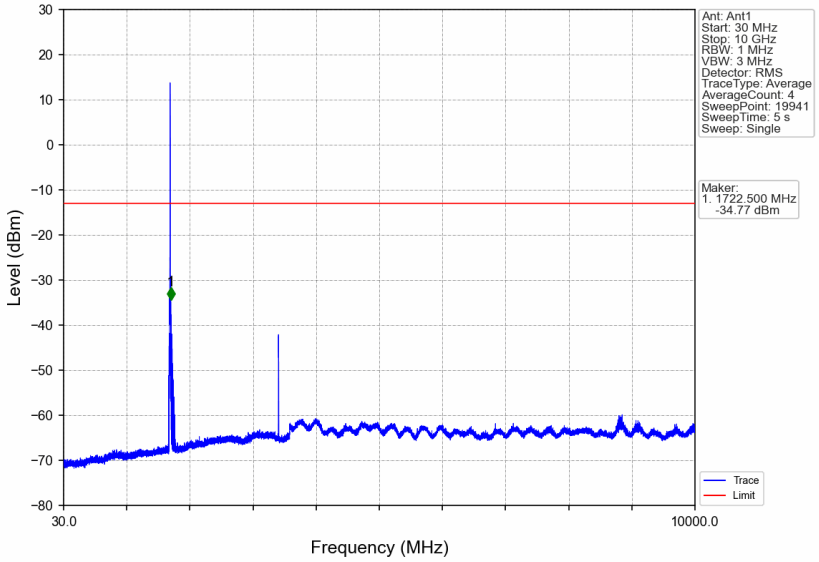
Band4_HSDPA_LCH_1712.4MHz_Subtest 1_NTNV



Band4_HSDPA_LCH_1712.4MHz_Subtest 1_NTNV



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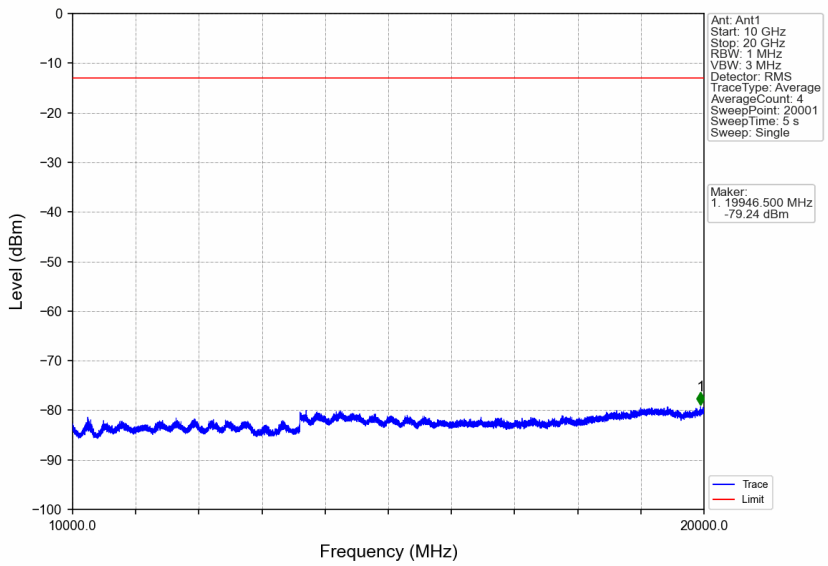
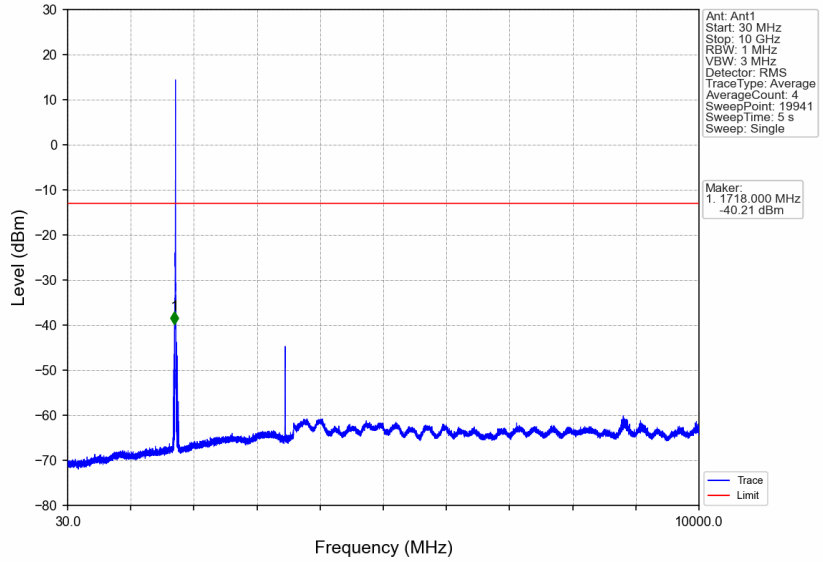
Band4_HSDPA_LCH_1712.4MHz_Subtest 1_NTNV



Band4_HSDPA_MCH_1732.6MHz_Subtest 1_NTNV



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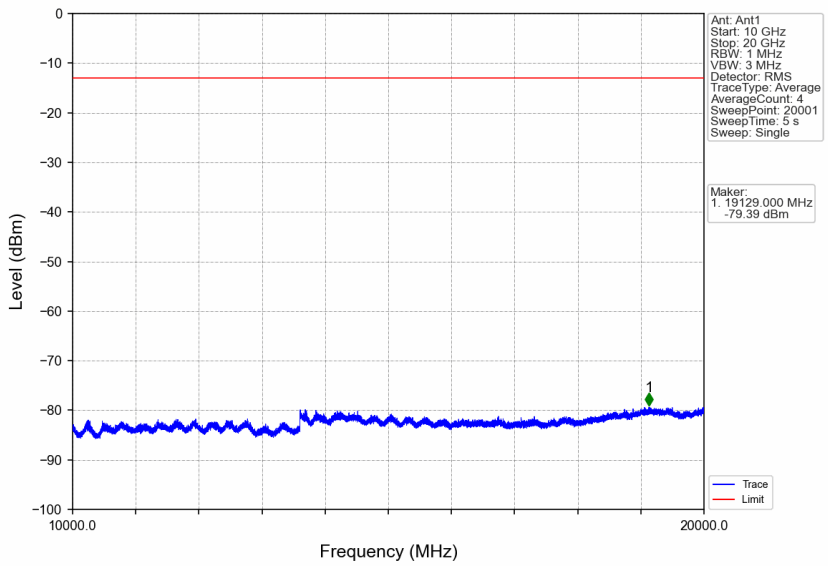
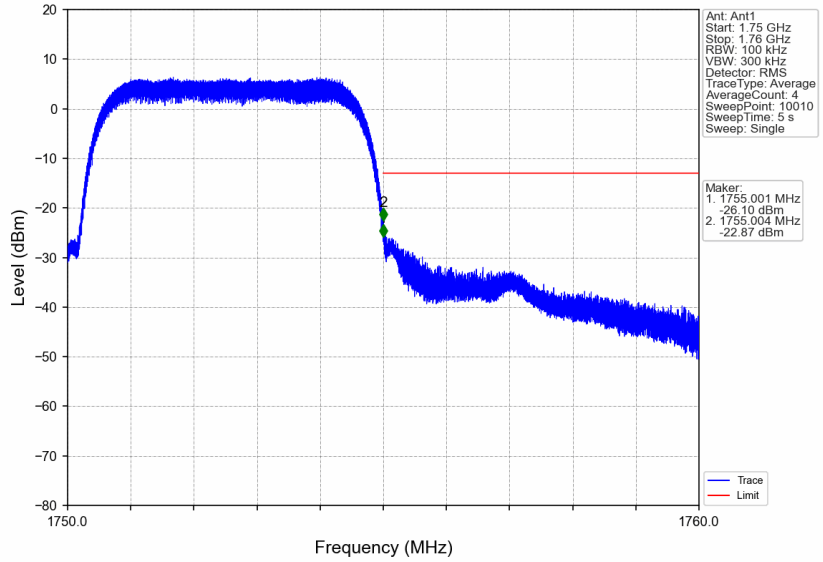
Band4_HSDPA_MCH_1732.6MHz_Subtest 1_NTNV



Band4_HSDPA_HCH_1752.6MHz_Subtest 1_NTNV



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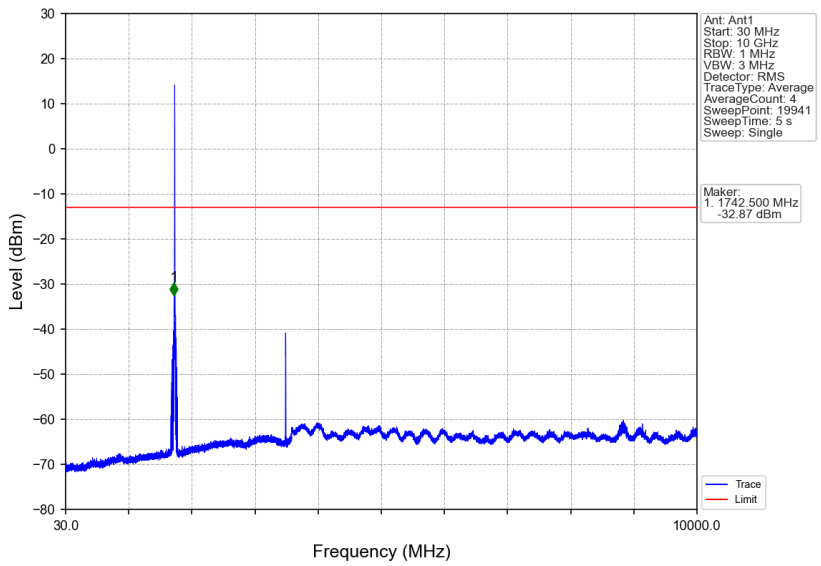
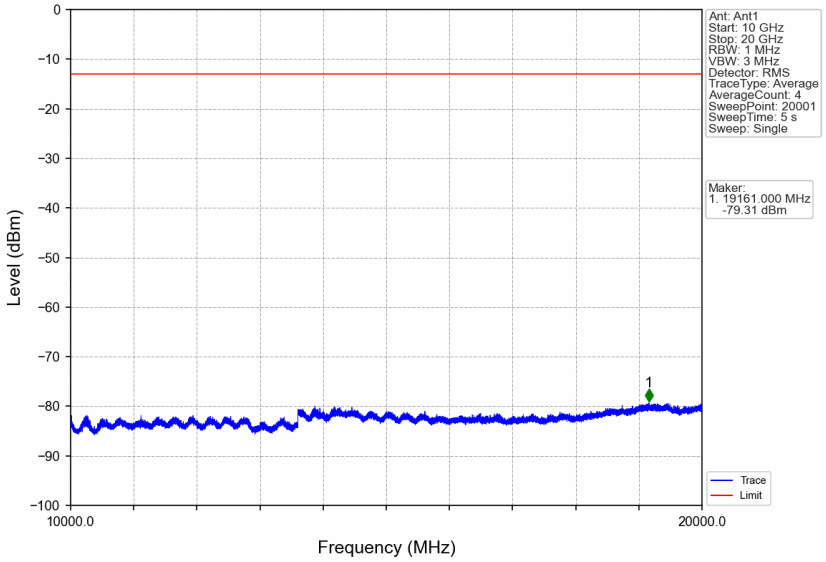
Band4_HSDPA_HCH_1752.6MHz_Subtest 1_NTNV



Band4_HSDPA_HCH_1752.6MHz_Subtest 1_NTNV



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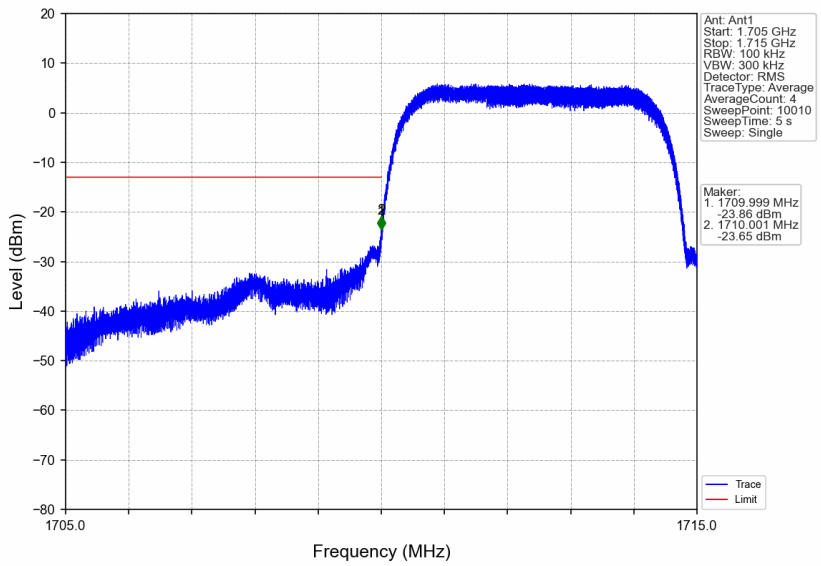
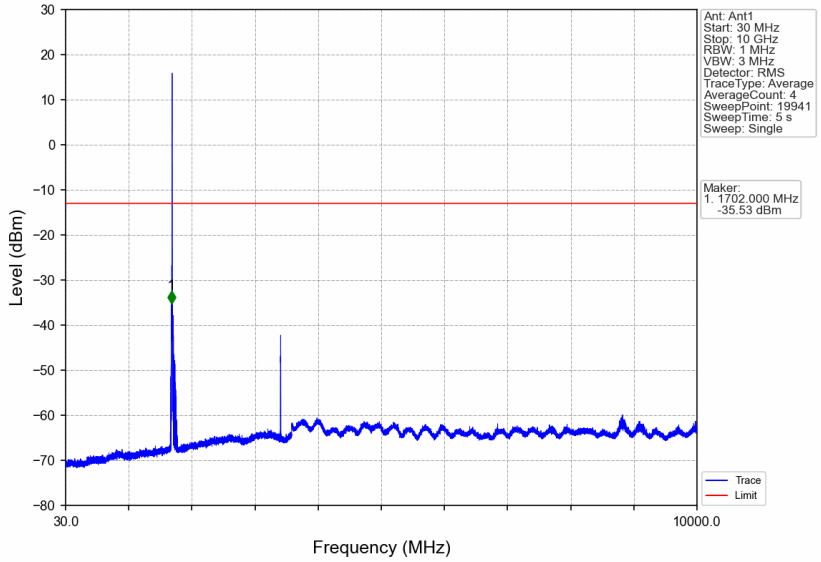
Band4_HSUPA_LCH_1712.4MHz_Subtest 1_NTNV



Band4_HSUPA_LCH_1712.4MHz_Subtest 1_NTNV



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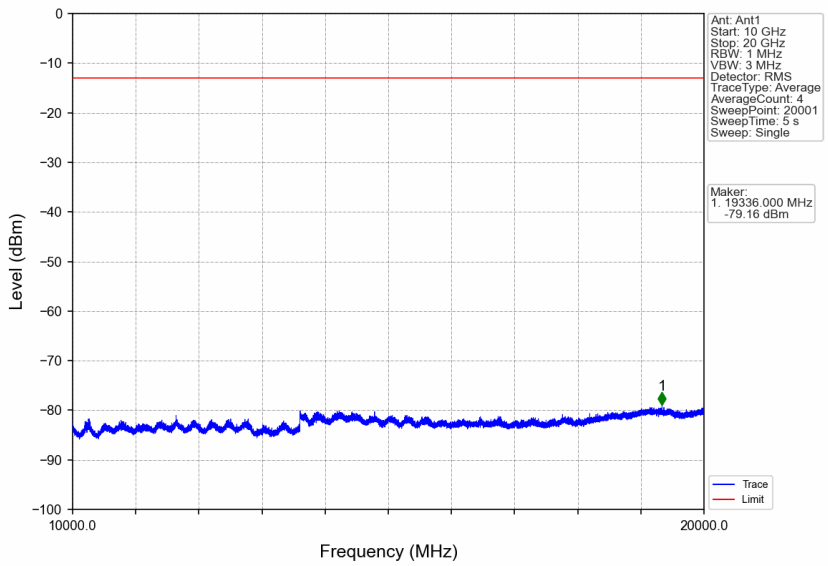
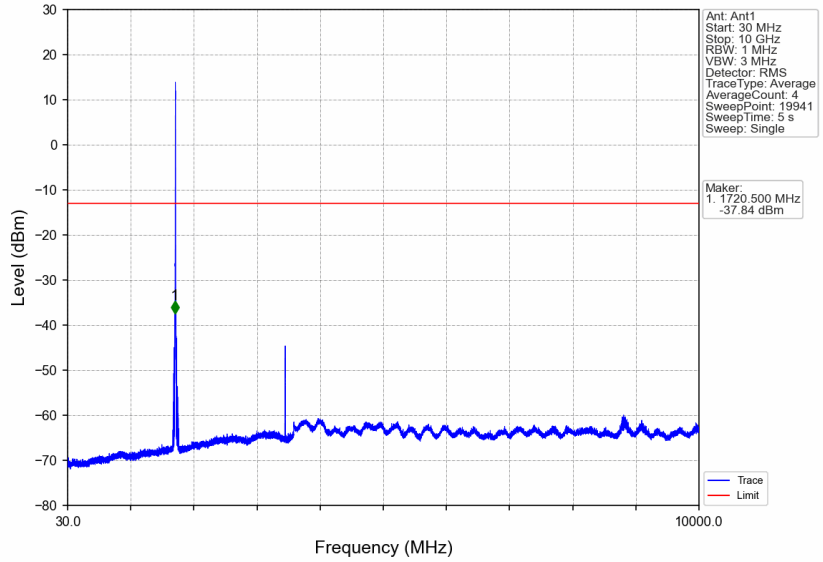
Band4_HSUPA_LCH_1712.4MHz_Subtest 1_NTNV



Band4_HSUPA_MCH_1732.6MHz_Subtest 1_NTNV



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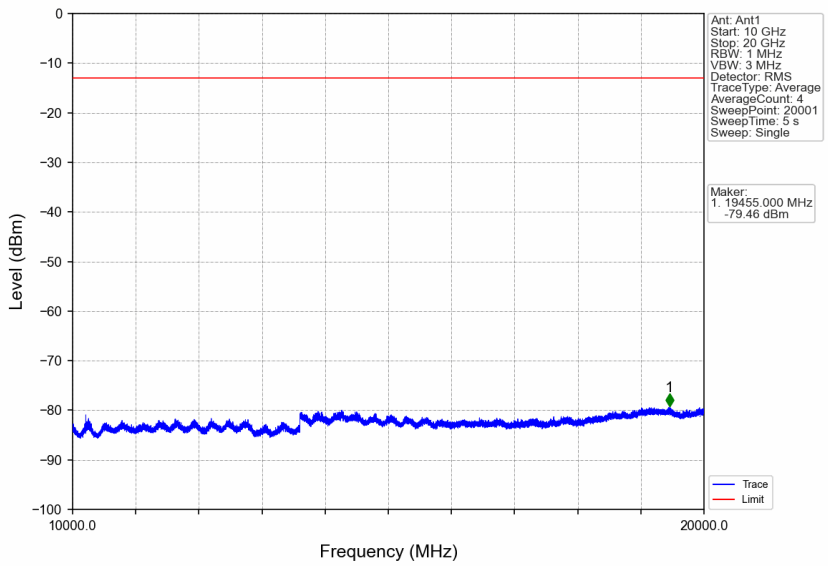
Band4_HSUPA_MCH_1732.6MHz_Subtest 1_NTNV



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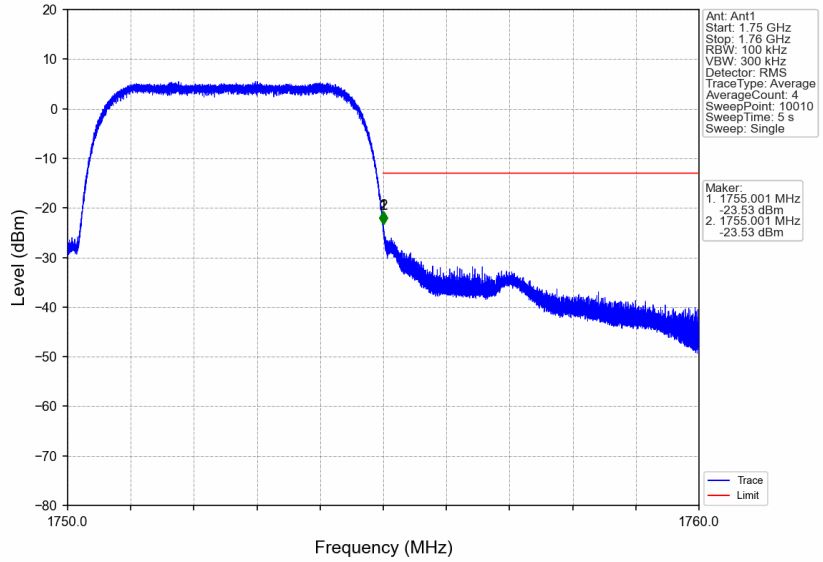

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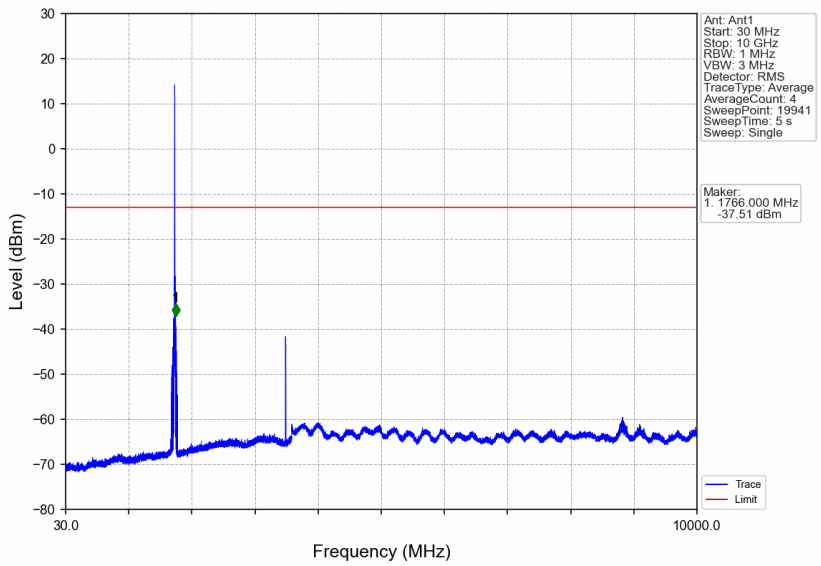

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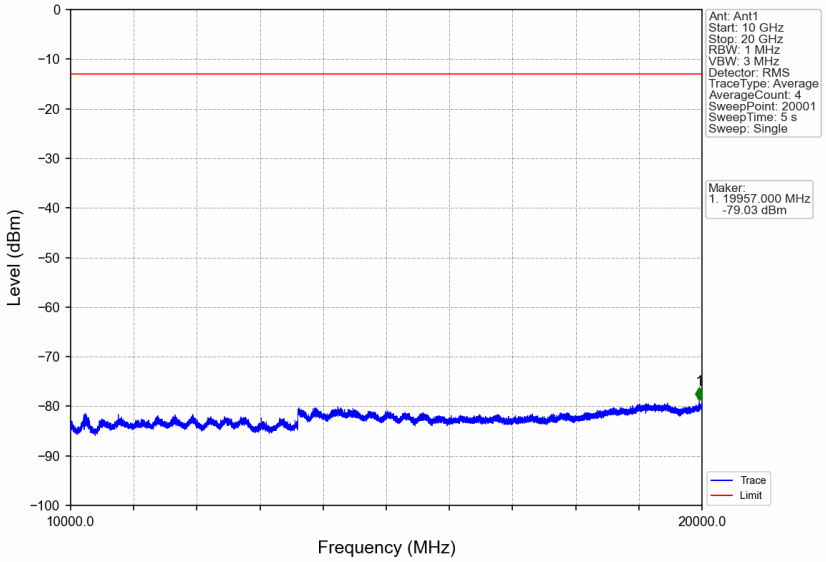

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