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

Appendix B.4

WCDMA Band IV

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1. Effective (Isotropic) Radiated Power Output Data

1.1 Band IV_EIRP_Ant1

1.1.1 Test Result

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	24.36	0.00	24.36	<=30	Pass
	HSDPA	Subtest 1	1712.4	22.17	0.00	22.17	<=30	Pass
		Subtest 2	1712.4	22.17	0.00	22.17	<=30	Pass
		Subtest 3	1712.4	22.18	0.00	22.18	<=30	Pass
		Subtest 4	1712.4	22.18	0.00	22.18	<=30	Pass
		Subtest 1	1732.6	22.30	0.00	22.30	<=30	Pass
		Subtest 2	1732.6	22.29	0.00	22.29	<=30	Pass
		Subtest 3	1732.6	22.32	0.00	22.32	<=30	Pass
		Subtest 4	1732.6	22.25	0.00	22.25	<=30	Pass
		Subtest 1	1752.6	22.48	0.00	22.48	<=30	Pass
		Subtest 2	1752.6	22.52	0.00	22.52	<=30	Pass
		Subtest 3	1752.6	22.49	0.00	22.49	<=30	Pass
		Subtest 4	1752.6	22.47	0.00	22.47	<=30	Pass
	HSUPA	Subtest 1	1712.4	20.39	0.00	20.39	<=30	Pass
		Subtest 2	1712.4	19.91	0.00	19.91	<=30	Pass
		Subtest 3	1712.4	20.38	0.00	20.38	<=30	Pass
		Subtest 4	1712.4	19.75	0.00	19.75	<=30	Pass
		Subtest 5	1712.4	20.28	0.00	20.28	<=30	Pass
		Subtest 1	1732.6	20.60	0.00	20.60	<=30	Pass
		Subtest 2	1732.6	19.97	0.00	19.97	<=30	Pass
		Subtest 3	1732.6	20.06	0.00	20.06	<=30	Pass
		Subtest 4	1732.6	20.42	0.00	20.42	<=30	Pass
		Subtest 5	1732.6	19.79	0.00	19.79	<=30	Pass
		Subtest 1	1752.6	20.58	0.00	20.58	<=30	Pass
		Subtest 2	1752.6	20.58	0.00	20.58	<=30	Pass
		Subtest 3	1752.6	20.43	0.00	20.43	<=30	Pass
		Subtest 4	1752.6	20.45	0.00	20.45	<=30	Pass
		Subtest 5	1752.6	20.02	0.00	20.02	<=30	Pass

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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	-18.582	-0.0109	/	Pass
			3.84	-21.400	-0.0125	/	Pass
			4.3	-22.781	-0.0133	/	Pass
		-30	3.84	-23.446	-0.0137	/	Pass
		-20	3.84	-23.904	-0.0140	/	Pass
		-10	3.84	-20.442	-0.0119	/	Pass
		0	3.84	-22.037	-0.0129	/	Pass
		10	3.84	-22.759	-0.0133	/	Pass
		30	3.84	-18.468	-0.0108	/	Pass
		40	3.84	-19.827	-0.0116	/	Pass
		50	3.84	-20.170	-0.0118	/	Pass
	1732.6	20	3.6	-15.593	-0.0090	/	Pass
			3.84	-17.037	-0.0098	/	Pass
			4.3	-12.839	-0.0074	/	Pass
		-30	3.84	-15.256	-0.0088	/	Pass
		-20	3.84	-16.572	-0.0096	/	Pass
		-10	3.84	-14.384	-0.0083	/	Pass
		0	3.84	-17.910	-0.0103	/	Pass
		10	3.84	-14.105	-0.0081	/	Pass
		30	3.84	-15.986	-0.0092	/	Pass
		40	3.84	-13.726	-0.0079	/	Pass
		50	3.84	-13.025	-0.0075	/	Pass
	1752.6	20	3.6	-10.722	-0.0061	/	Pass
			3.84	-13.061	-0.0075	/	Pass
			4.3	-15.585	-0.0089	/	Pass
		-30	3.84	-13.540	-0.0077	/	Pass
		-20	3.84	-9.978	-0.0057	/	Pass
		-10	3.84	-9.534	-0.0054	/	Pass
		0	3.84	-17.502	-0.0100	/	Pass
		10	3.84	-11.673	-0.0067	/	Pass
		30	3.84	-8.576	-0.0049	/	Pass
		40	3.84	-8.039	-0.0046	/	Pass
		50	3.84	-12.825	-0.0073	/	Pass
HSDPA	1712.4	20	3.6	-8.590	-0.0050	/	Pass
			3.84	-27.394	-0.0160	/	Pass
			4.3	-31.536	-0.0184	/	Pass
		-30	3.84	-27.037	-0.0158	/	Pass

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		-20	3.84	-30.534	-0.0178	/	Pass
		-10	3.84	-25.771	-0.0150	/	Pass
		0	3.84	-25.620	-0.0150	/	Pass
		10	3.84	-25.756	-0.0150	/	Pass
		30	3.84	-24.011	-0.0140	/	Pass
		40	3.84	-27.502	-0.0161	/	Pass
		50	3.84	-29.418	-0.0172	/	Pass
	1732.6	20	3.6	-2.253	-0.0013	/	Pass
			3.84	-2.904	-0.0017	/	Pass
			4.3	-8.554	-0.0049	/	Pass
		-30	3.84	-9.499	-0.0055	/	Pass
		-20	3.84	-11.759	-0.0068	/	Pass
		-10	3.84	-7.796	-0.0045	/	Pass
		0	3.84	-7.310	-0.0042	/	Pass
		10	3.84	-9.298	-0.0054	/	Pass
		30	3.84	-4.807	-0.0028	/	Pass
		40	3.84	-9.470	-0.0055	/	Pass
		50	3.84	-9.062	-0.0052	/	Pass
	1752.6	20	3.6	-4.978	-0.0028	/	Pass
			3.84	-29.712	-0.0170	/	Pass
			4.3	-26.708	-0.0152	/	Pass
		-30	3.84	-30.134	-0.0172	/	Pass
		-20	3.84	-34.690	-0.0198	/	Pass
		-10	3.84	-30.770	-0.0176	/	Pass
		0	3.84	-34.404	-0.0196	/	Pass
		10	3.84	-35.970	-0.0205	/	Pass
		30	3.84	-34.246	-0.0195	/	Pass
		40	3.84	-30.627	-0.0175	/	Pass
		50	3.84	-31.815	-0.0182	/	Pass
HSUPA	1712.4	20	3.6	-11.094	-0.0065	/	Pass
			3.84	-15.314	-0.0089	/	Pass
			4.3	-13.053	-0.0076	/	Pass
		-30	3.84	-14.641	-0.0085	/	Pass
		-20	3.84	-15.707	-0.0092	/	Pass
		-10	3.84	-12.388	-0.0072	/	Pass
		0	3.84	-9.735	-0.0057	/	Pass
		10	3.84	-10.779	-0.0063	/	Pass
		30	3.84	-13.068	-0.0076	/	Pass
		40	3.84	-13.697	-0.0080	/	Pass
		50	3.84	-6.523	-0.0038	/	Pass
	1732.6	20	3.6	-12.016	-0.0069	/	Pass
			3.84	-8.562	-0.0049	/	Pass
			4.3	-10.450	-0.0060	/	Pass
		-30	3.84	-11.401	-0.0066	/	Pass
		-20	3.84	-6.316	-0.0036	/	Pass
		-10	3.84	-9.220	-0.0053	/	Pass
		0	3.84	-9.449	-0.0055	/	Pass
		10	3.84	-11.108	-0.0064	/	Pass

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		30	3.84	-10.057	-0.0058	/	Pass
		40	3.84	-7.360	-0.0042	/	Pass
		50	3.84	-8.647	-0.0050	/	Pass
	1752.6	20	3.6	-2.961	-0.0017	/	Pass
			3.84	-4.177	-0.0024	/	Pass
			4.3	-6.852	-0.0039	/	Pass
		-30	3.84	-10.436	-0.0060	/	Pass
		-20	3.84	-13.061	-0.0075	/	Pass
		-10	3.84	-10.786	-0.0062	/	Pass
		0	3.84	-11.809	-0.0067	/	Pass
		10	3.84	-11.909	-0.0068	/	Pass
		30	3.84	-5.114	-0.0029	/	Pass
		40	3.84	-9.205	-0.0053	/	Pass
		50	3.84	-4.849	-0.0028	/	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	4.192	/	Pass
			1732.6	4.181	/	Pass
			1752.6	4.186	/	Pass
	HSDPA	Subtest 1	1712.4	4.196	/	Pass
			1732.6	4.227	/	Pass
			1752.6	4.206	/	Pass
	HSUPA	Subtest 1	1712.4	4.193	/	Pass
			1732.6	4.239	/	Pass
			1752.6	4.196	/	Pass

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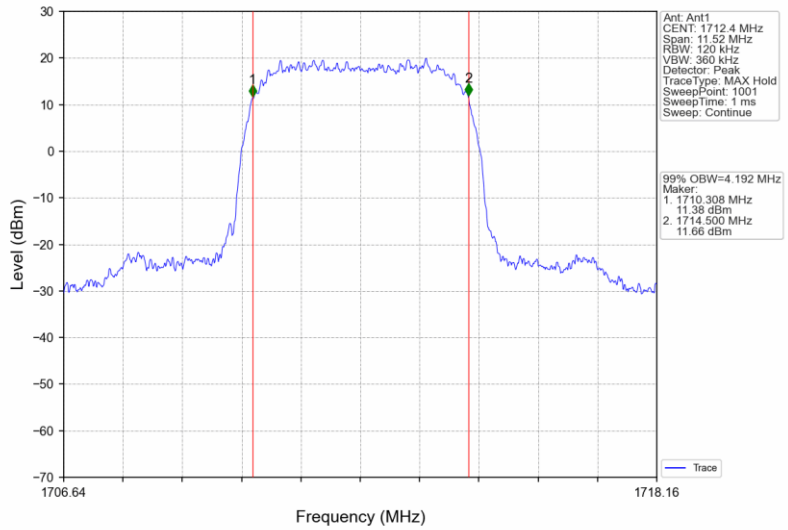
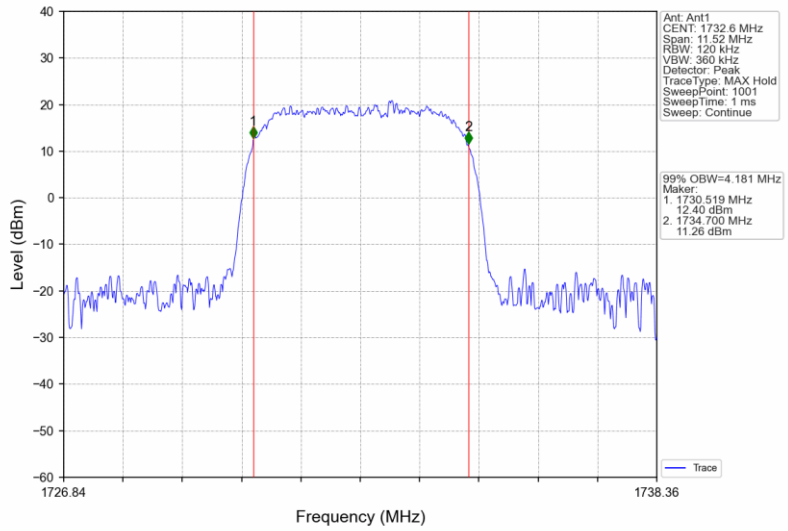
3.1.2 Test Graph

Band IV_RMC_LCH_1712.4MHz_12.2kbps RMC_NTNV



Band IV_RMC_MCH_1732.6MHz_12.2kbps RMC_NTNV



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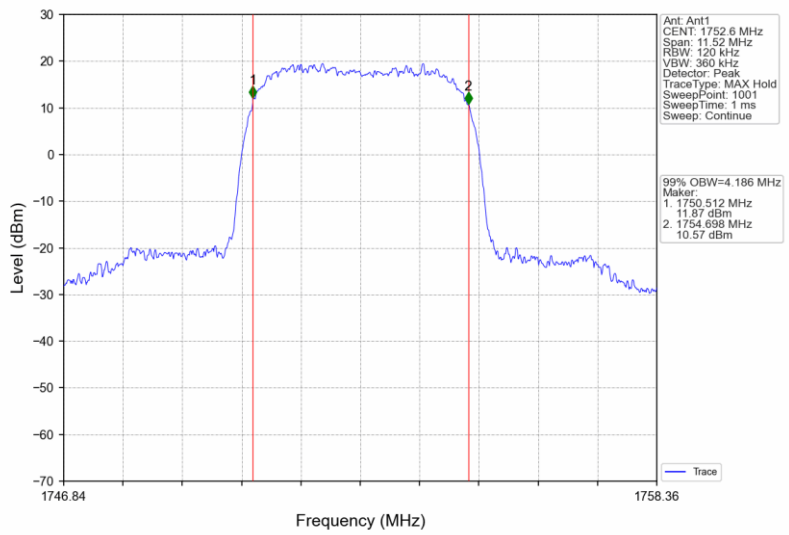
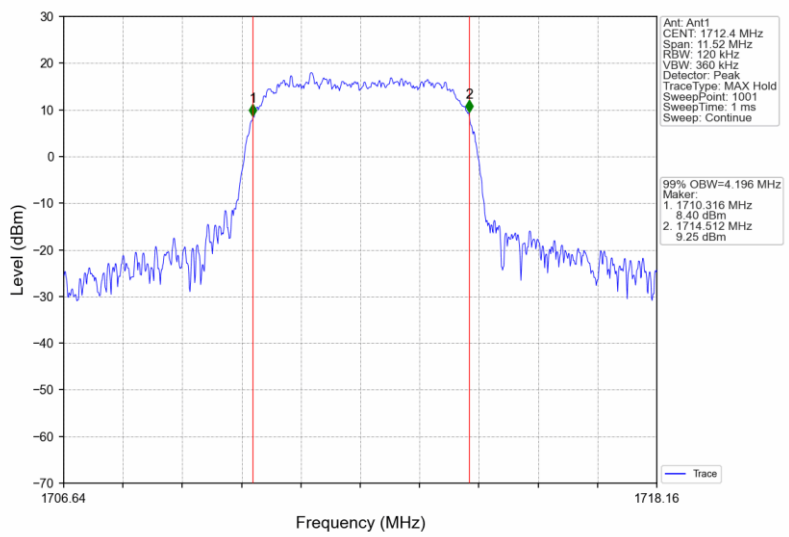
Band IV_RMC_HCH_1752.6MHz_12.2kbps RMC_NTNV



Band IV_HSDPA_LCH_1712.4MHz_Subtest 1_NTNV



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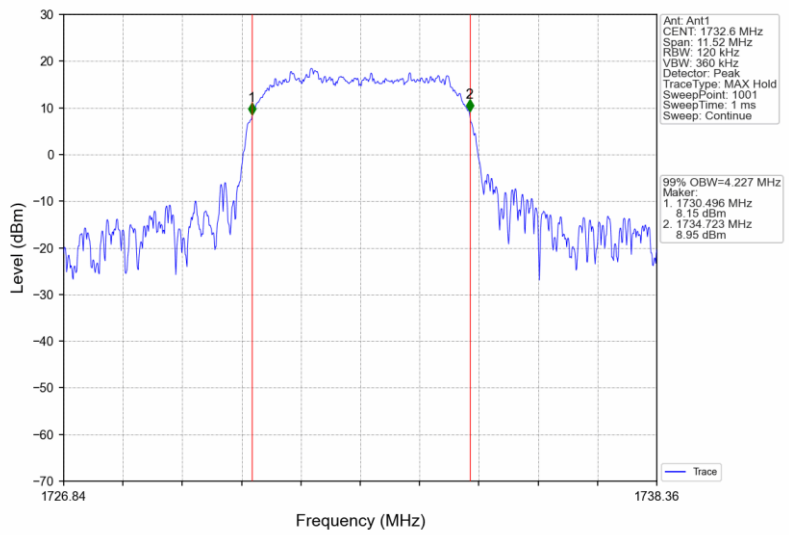
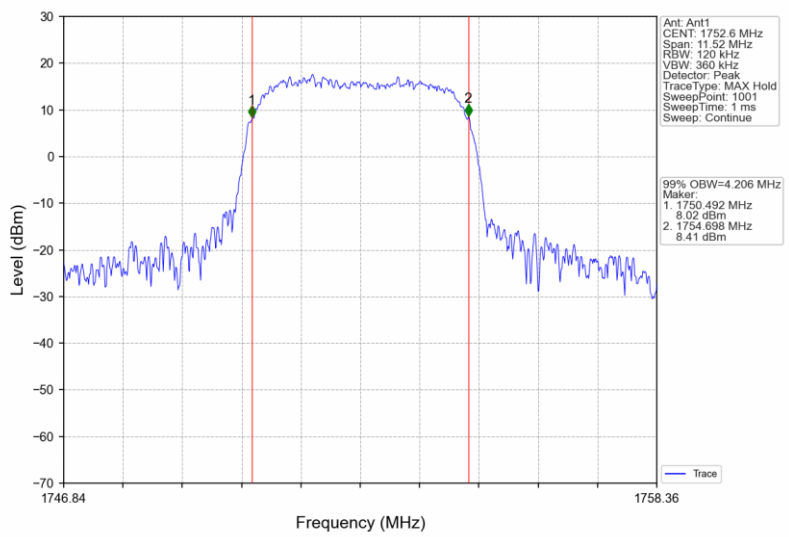
Band IV_HSDPA_MCH_1732.6MHz_Subtest 1_NTNV



Band IV_HSDPA_HCH_1752.6MHz_Subtest 1_NTNV



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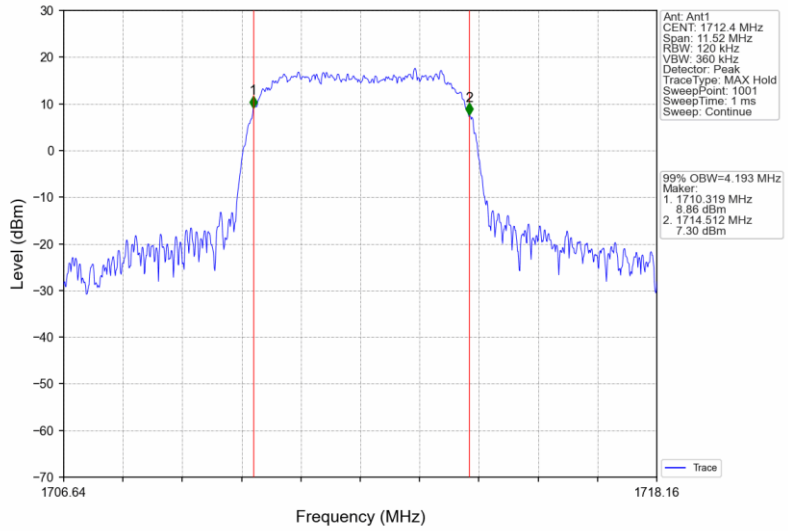
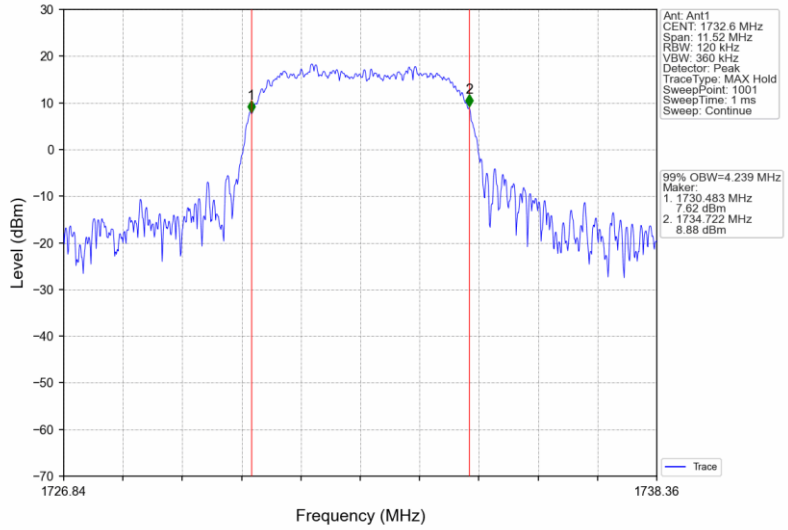
Band IV_HSUPA_LCH_1712.4MHz_Subtest 1_NTNV



Band IV_HSUPA_MCH_1732.6MHz_Subtest 1_NTNV



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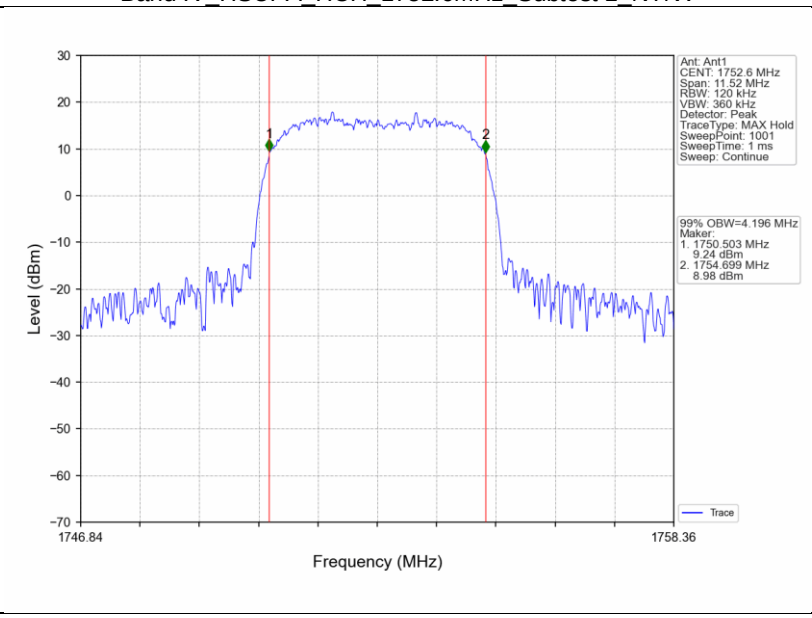
Band IV_HSUPA_HCH_1752.6MHz_Subtest 1_NTNV



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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	4.758	/	Pass
			1732.6	4.740	/	Pass
			1752.6	4.756	/	Pass
	HSDPA	Subtest 1	1712.4	4.736	/	Pass
			1732.6	5.744	/	Pass
			1752.6	4.781	/	Pass
	HSUPA	Subtest 1	1712.4	4.763	/	Pass
			1732.6	5.970	/	Pass
			1752.6	4.741	/	Pass

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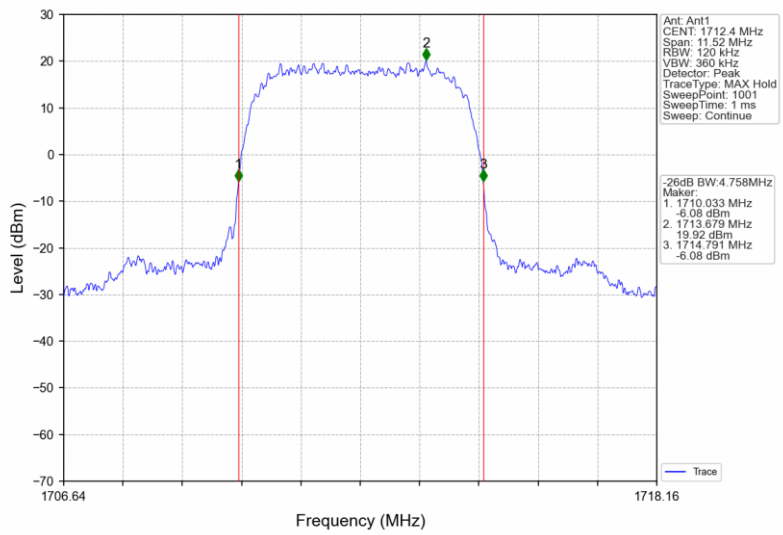
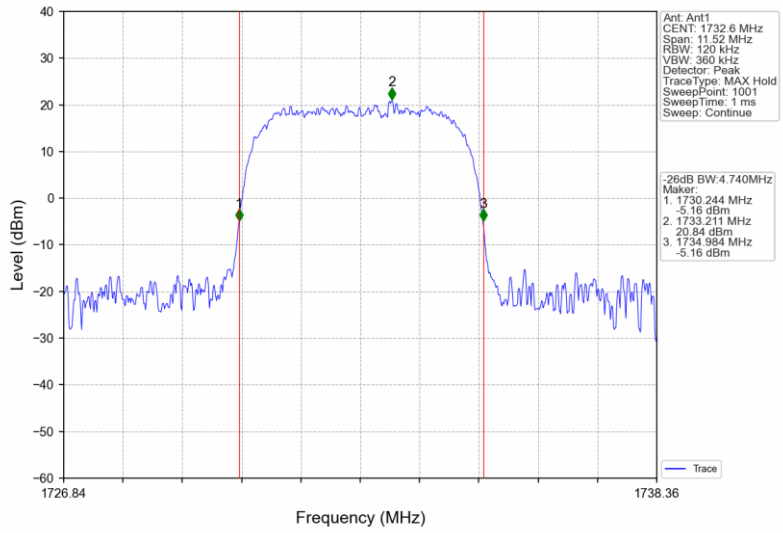
3.2.2 Test Graph

Band IV_RMC_LCH_1712.4MHz_12.2kbps RMC_NTNV



Band IV_RMC_MCH_1732.6MHz_12.2kbps RMC_NTNV



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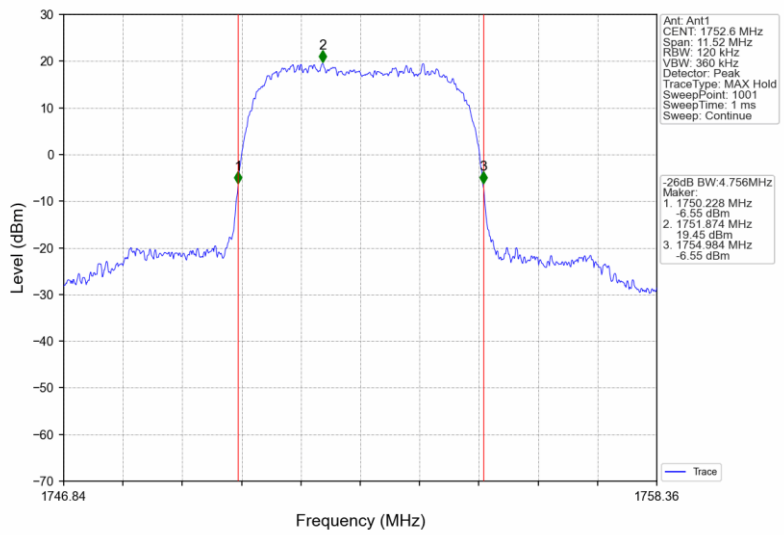
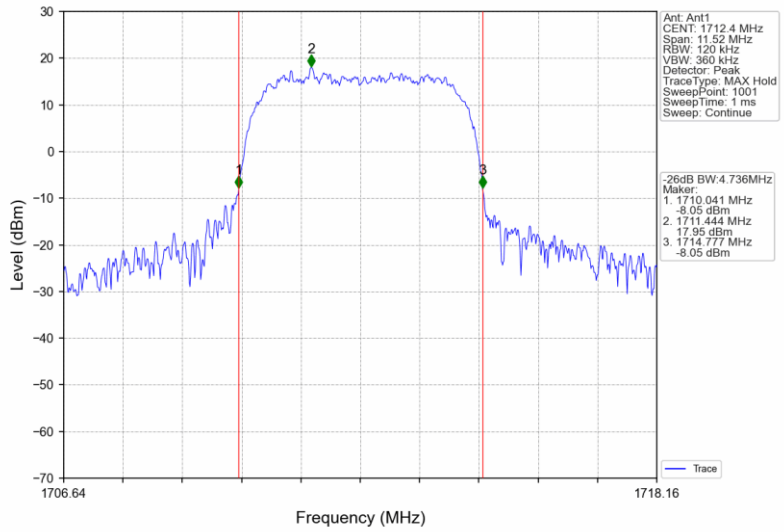
Band IV_RMC_HCH_1752.6MHz_12.2kbps RMC_NTNV



Band IV_HSDPA_LCH_1712.4MHz_Subtest 1_NTNV



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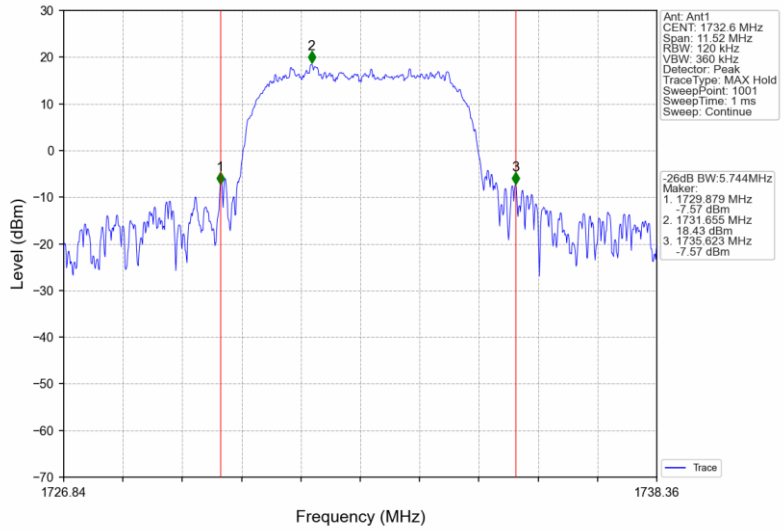
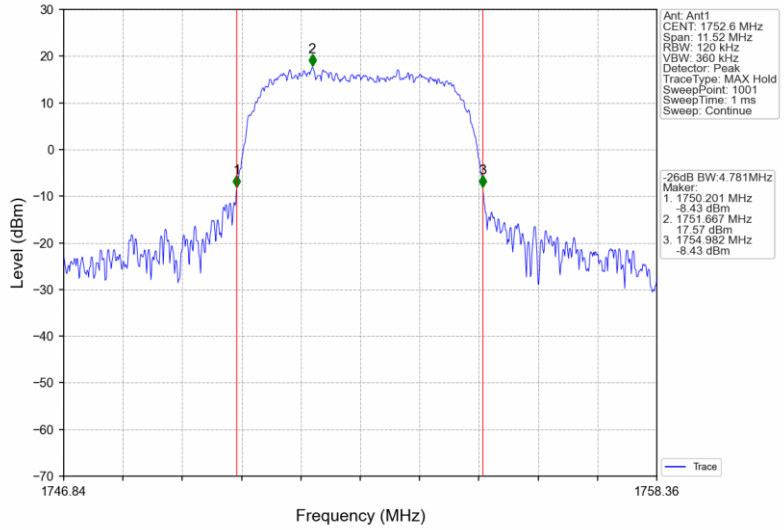
Band IV_HSDPA_MCH_1732.6MHz_Subtest 1_NTNV



Band IV_HSDPA_HCH_1752.6MHz_Subtest 1_NTNV



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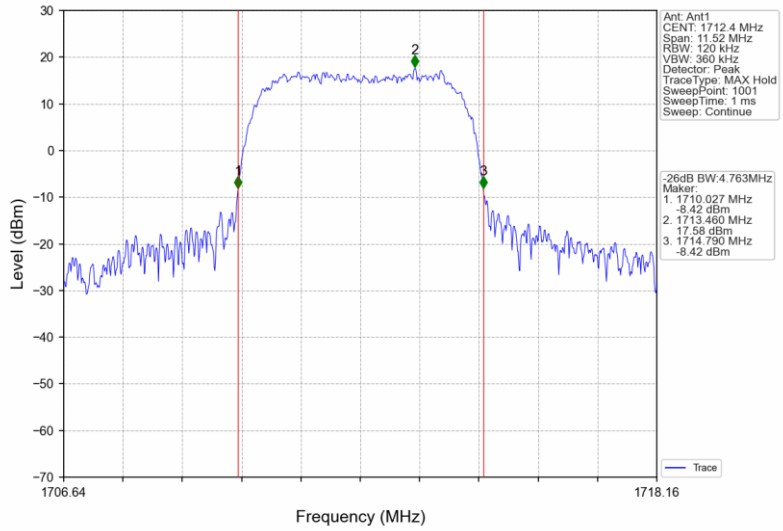
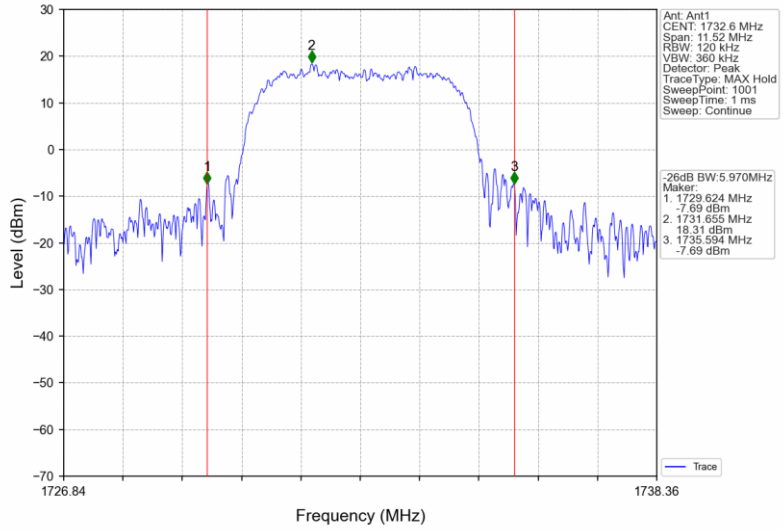
Band IV_HSUPA_LCH_1712.4MHz_Subtest 1_NTNV



Band IV_HSUPA_MCH_1732.6MHz_Subtest 1_NTNV



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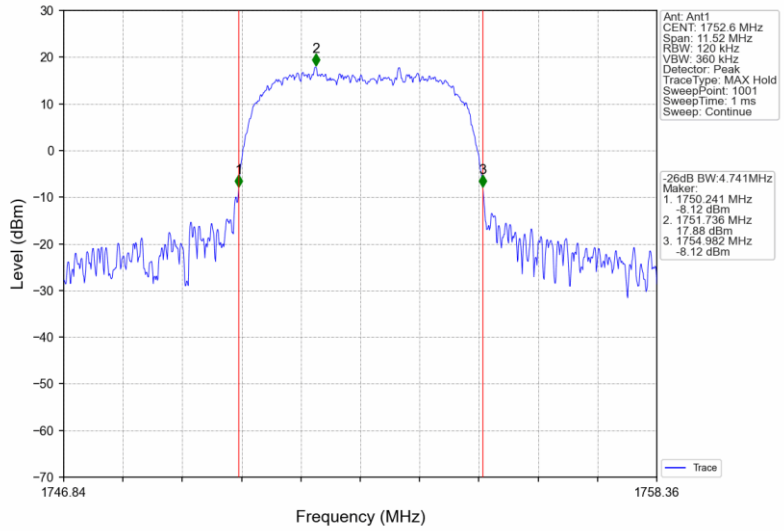

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4. Peak-Average Ratio

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	2.84	<=13	Pass
			1732.6	2.84	<=13	Pass
			1752.6	2.75	<=13	Pass
	HSDPA	Subtest 1	1712.4	5.81	<=13	Pass
			1732.6	5.80	<=13	Pass
			1752.6	5.84	<=13	Pass
	HSUPA	Subtest 1	1712.4	5.89	<=13	Pass
			1732.6	5.78	<=13	Pass
			1752.6	5.85	<=13	Pass

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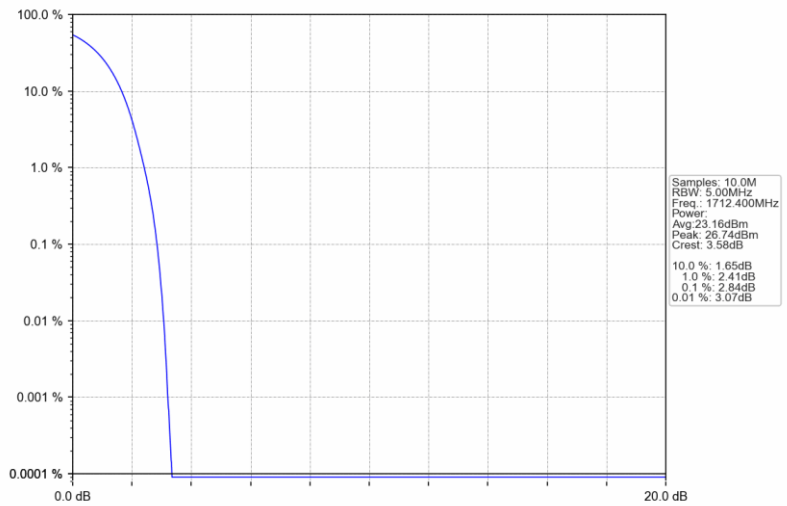
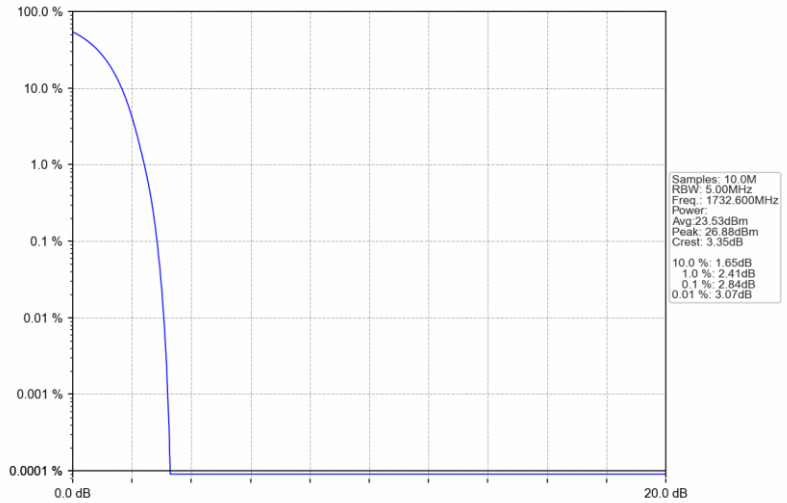
4.1.2 Test Graph

Band IV_RMC_LCH_1712.4MHz_12.2kbps RMC_NTNV



Band IV_RMC_MCH_1732.6MHz_12.2kbps RMC_NTNV



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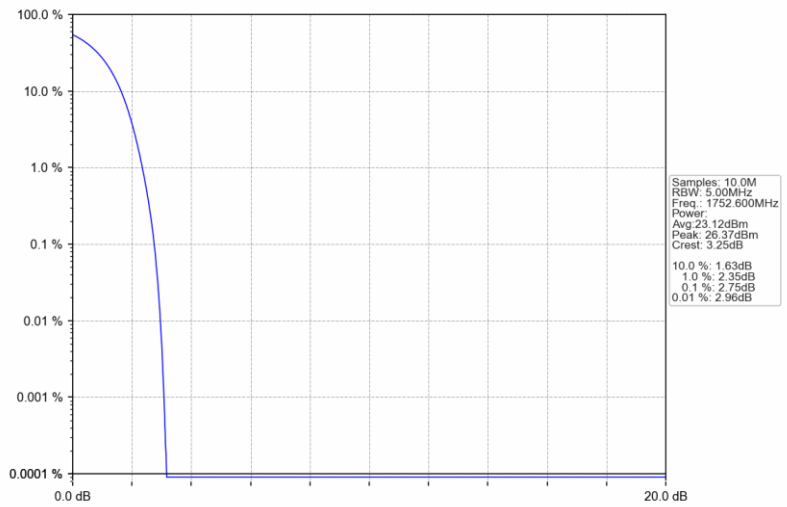
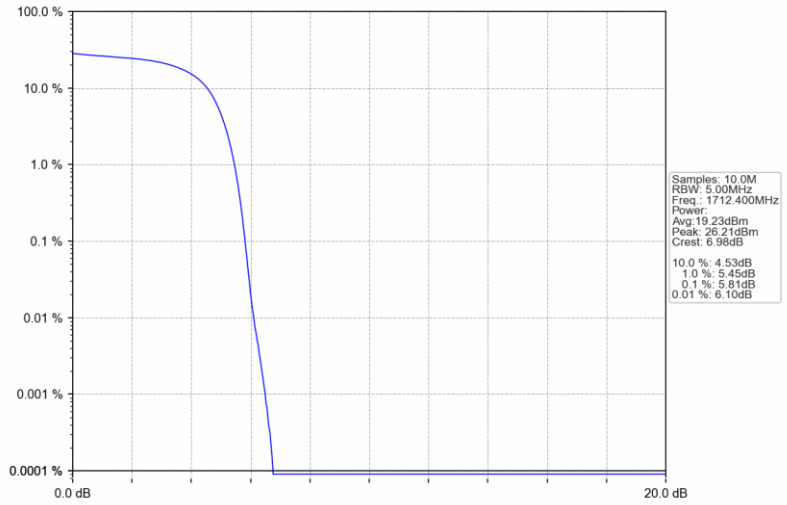
Band IV_RMC_HCH_1752.6MHz_12.2kbps RMC_NTNV



Band IV_HSDPA_LCH_1712.4MHz_Subtest 1_NTNV



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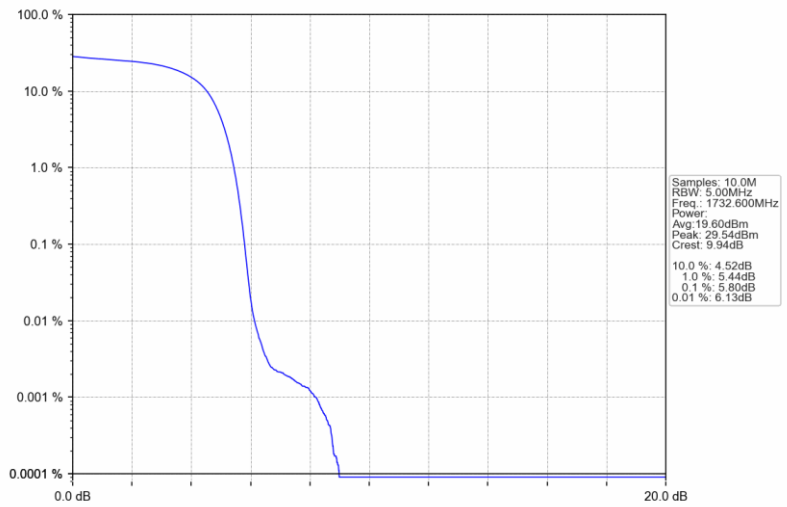
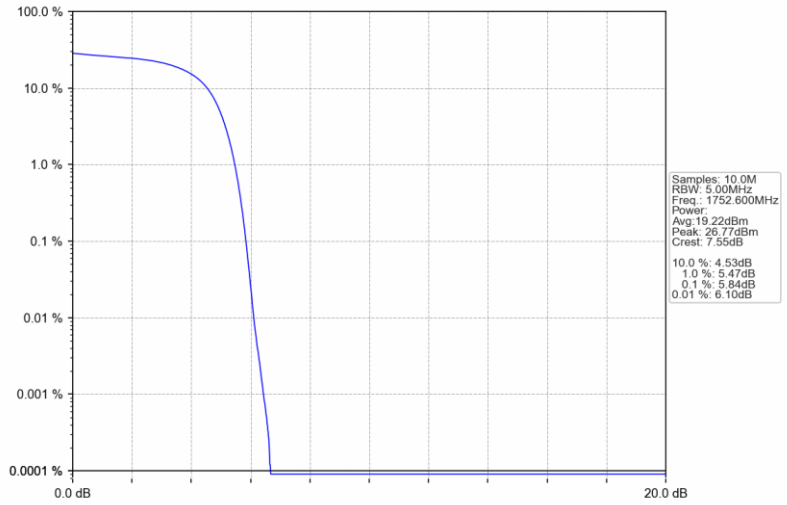
Band IV_HSDPA_MCH_1732.6MHz_Subtest 1_NTNV



Band IV_HSDPA_HCH_1752.6MHz_Subtest 1_NTNV



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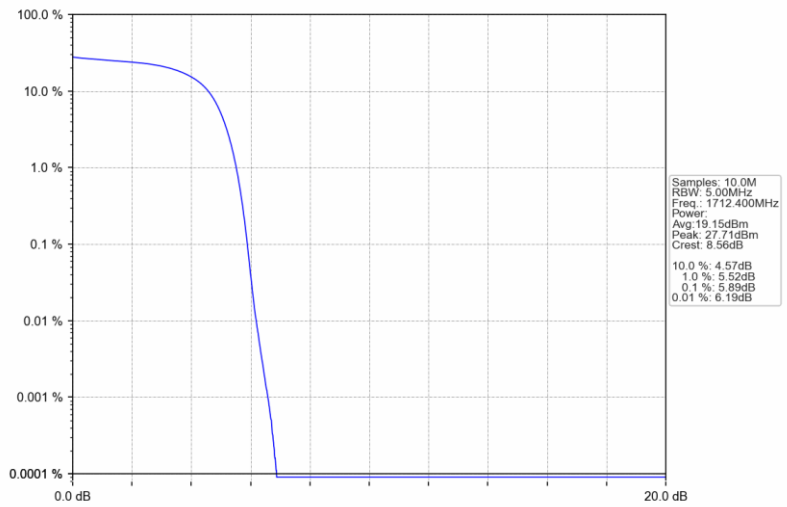
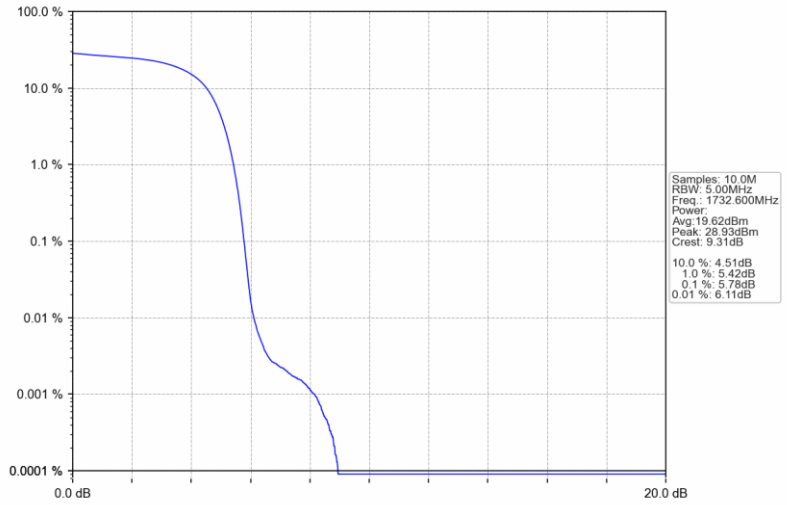
Band IV_HSUPA_LCH_1712.4MHz_Subtest 1_NTNV



Band IV_HSUPA_MCH_1732.6MHz_Subtest 1_NTNV



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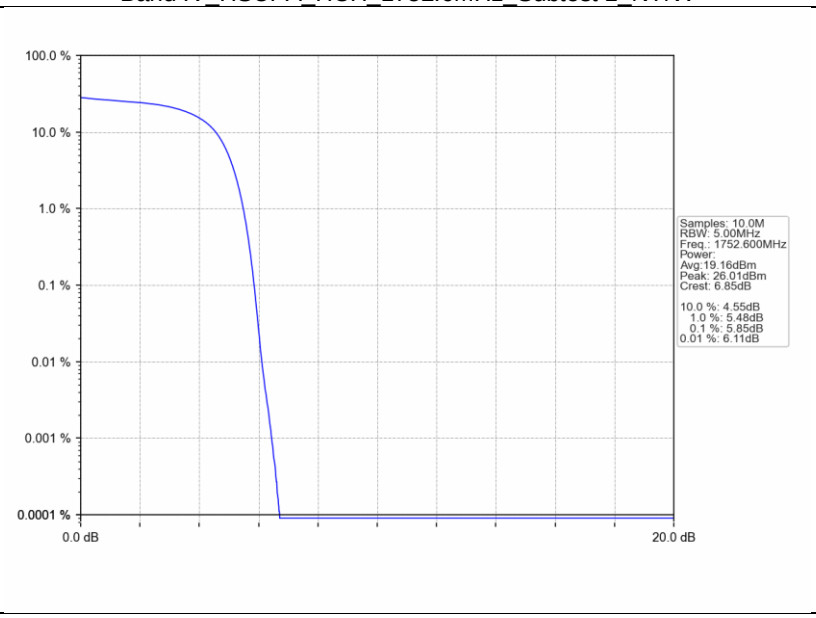
Band IV_HSUPA_HCH_1752.6MHz_Subtest 1_NTNV



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5. Spurious Emission & Band Edges

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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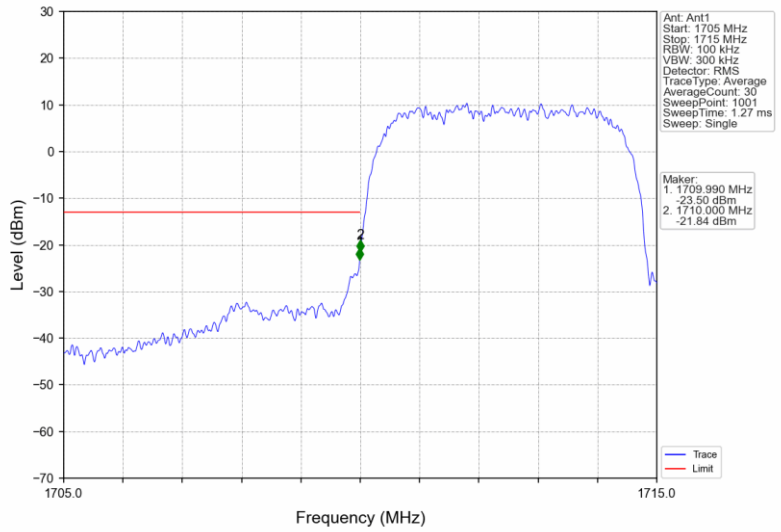
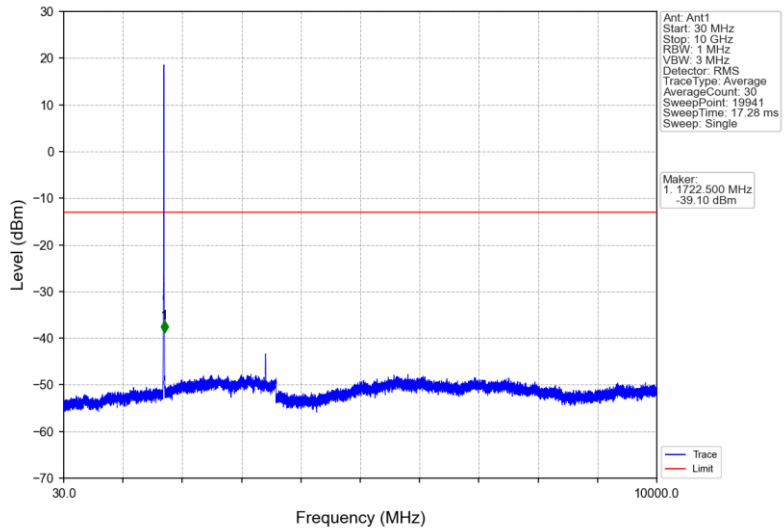
5.1.2 Test Graph

Band IV_RMC_LCH_1712.4MHz_12.2kbps RMC_NTNV



Band IV_RMC_LCH_1712.4MHz_12.2kbps RMC_NTNV



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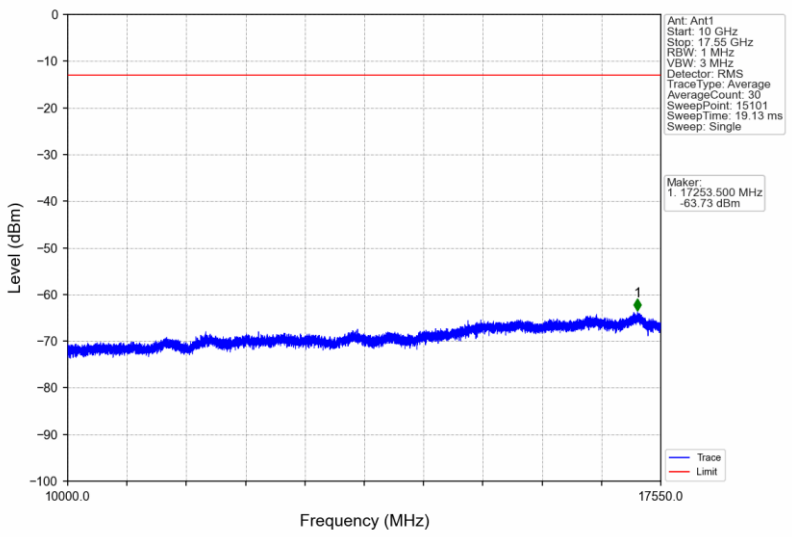
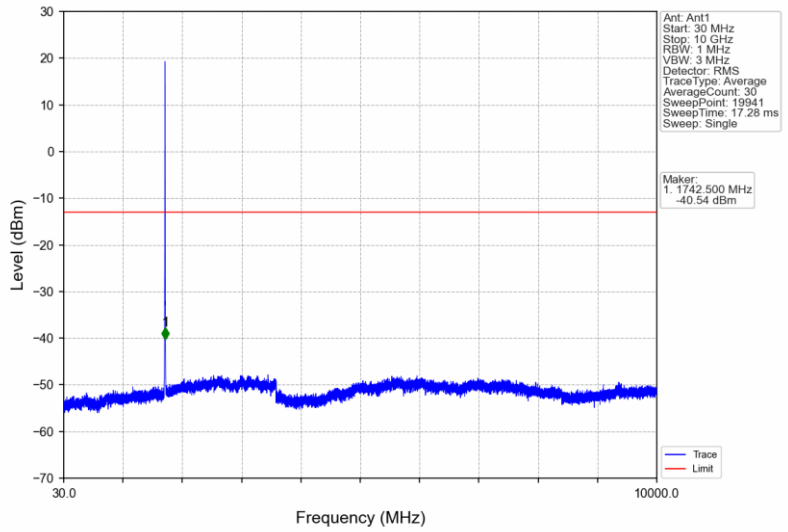
Band IV_RMC_LCH_1712.4MHz_12.2kbps RMC_NTNV



Band IV_RMC_MCH_1732.6MHz_12.2kbps RMC_NTNV



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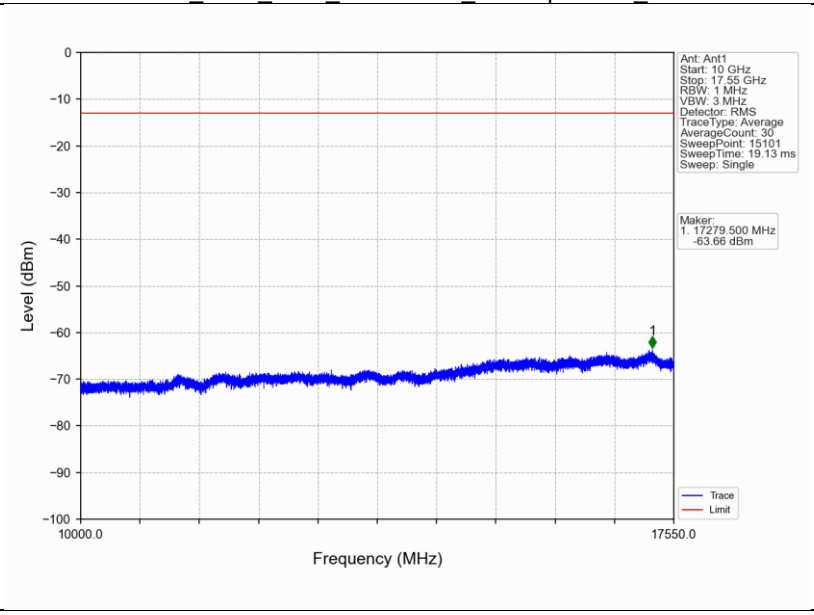
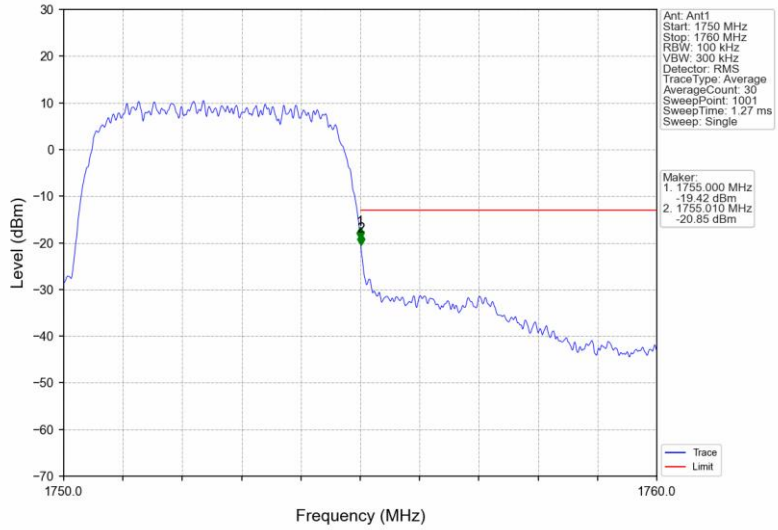


Band IV_RMC_HCH_1752.6MHz_12.2kbps RMC_NTNV



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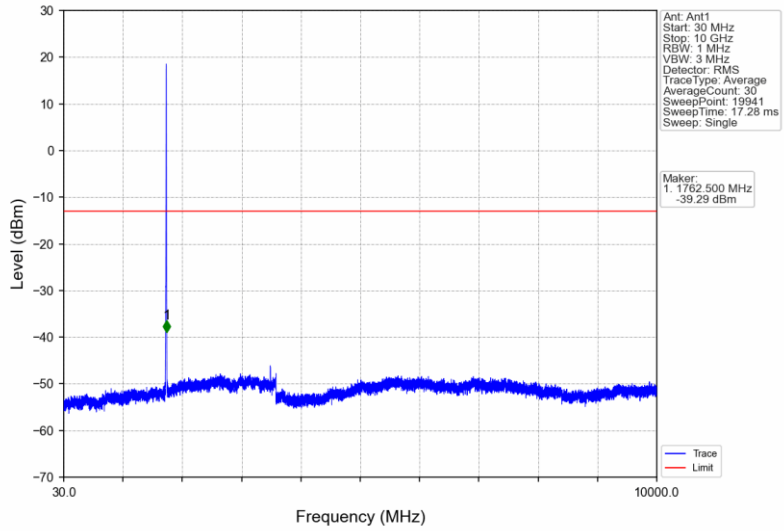
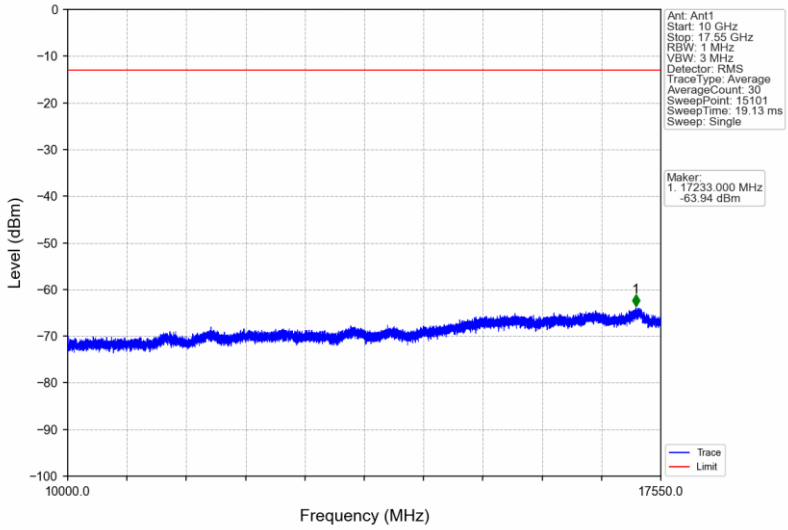


Band IV_RMC_HCH_1752.6MHz_12.2kbps RMC_NTNV



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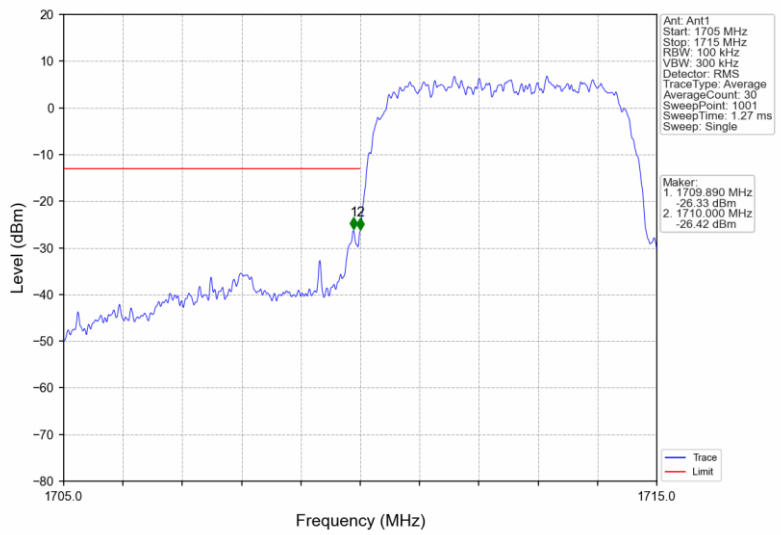

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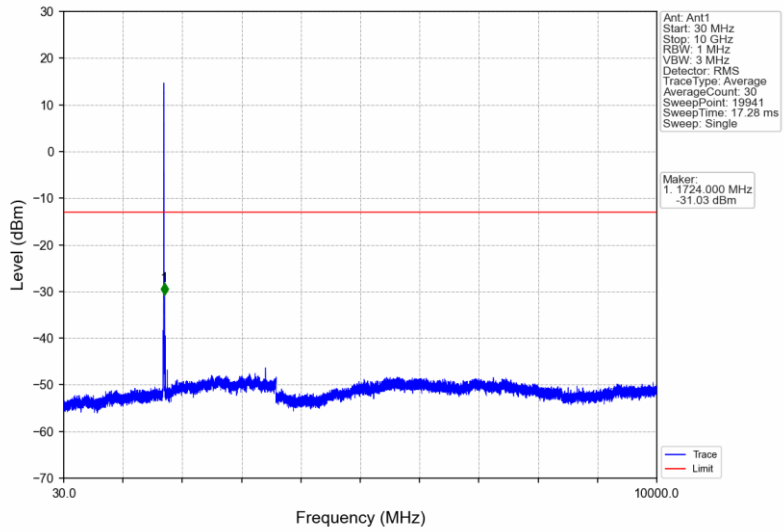

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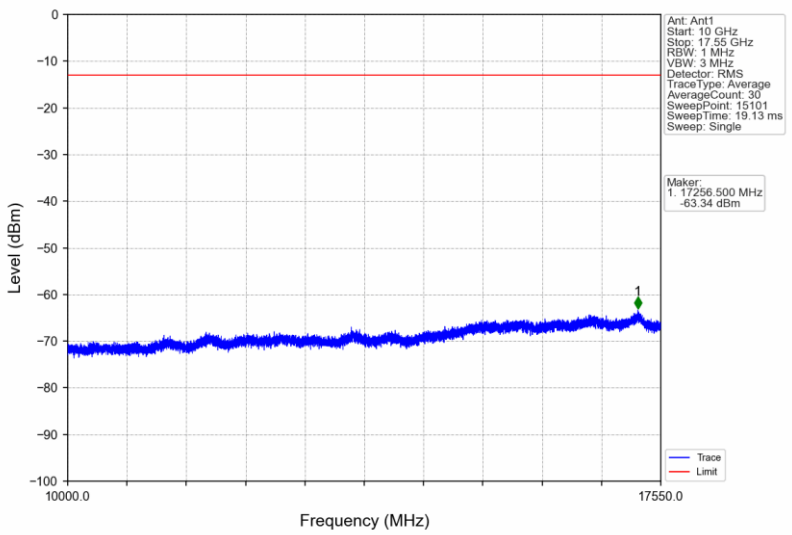
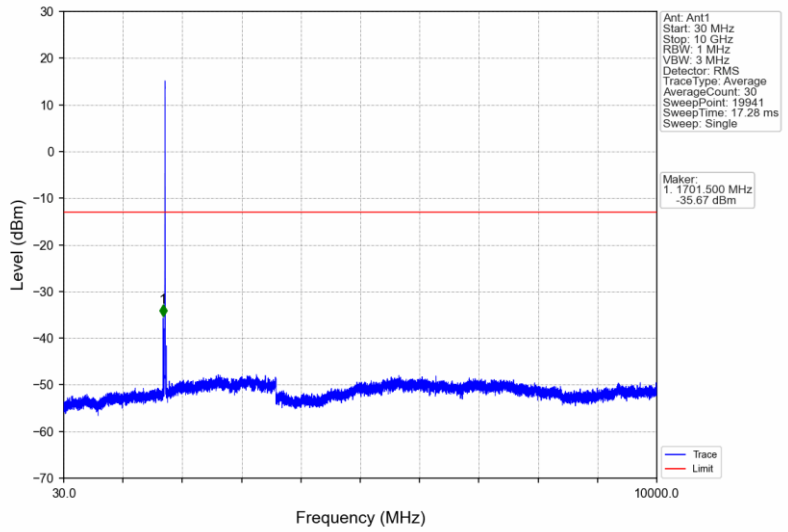


Band IV_HSDPA_MCH_1732.6MHz_Subtest 1_NTNV



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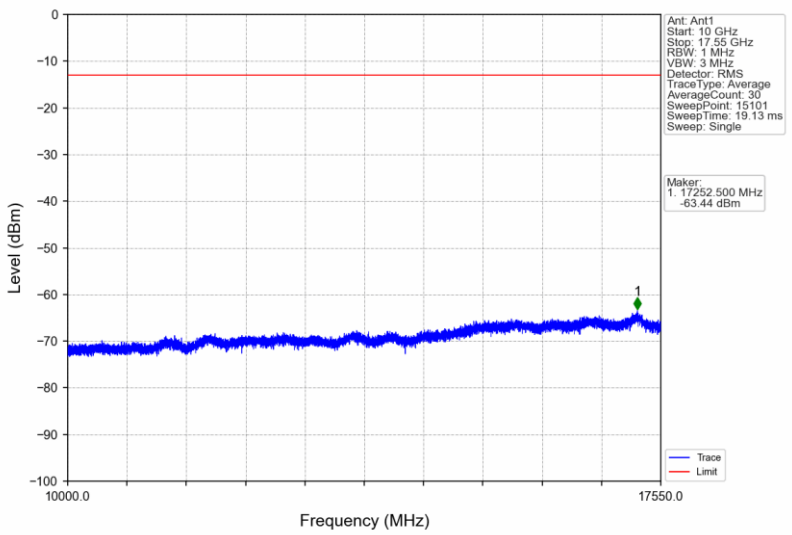
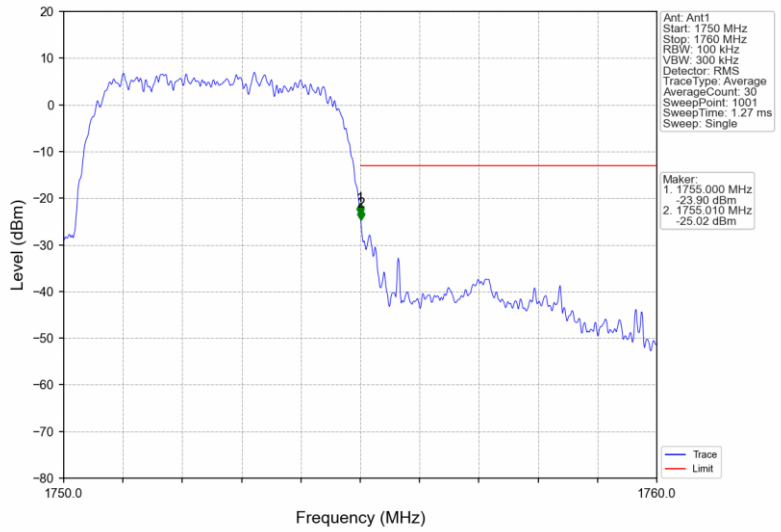


Band IV_HSDPA_HCH_1752.6MHz_Subtest 1_NTNV



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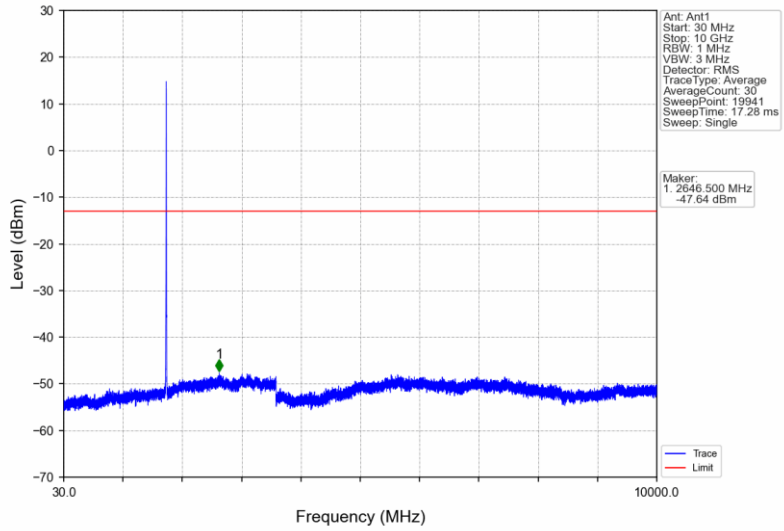
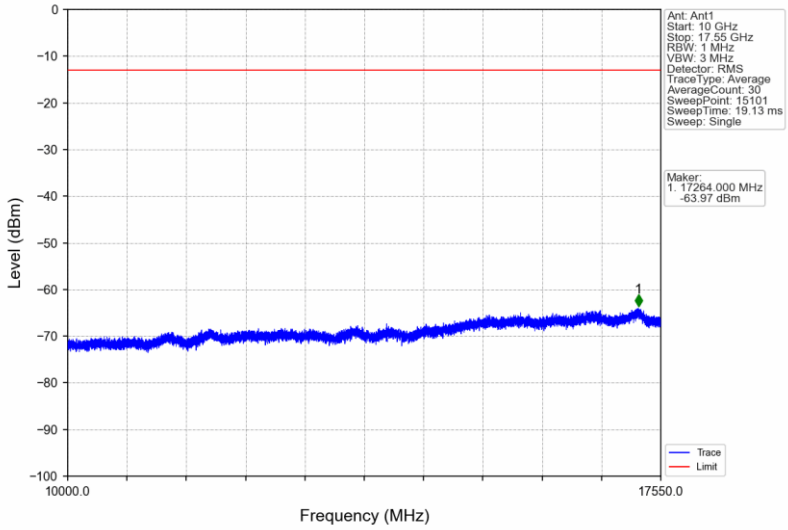
Band IV_HSDPA_HCH_1752.6MHz_Subtest 1_NTNV



Band IV_HSDPA_HCH_1752.6MHz_Subtest 1_NTNV



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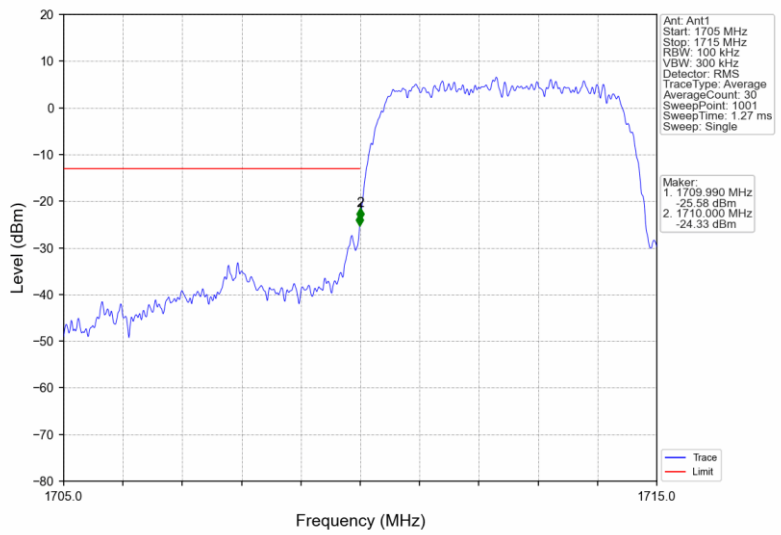
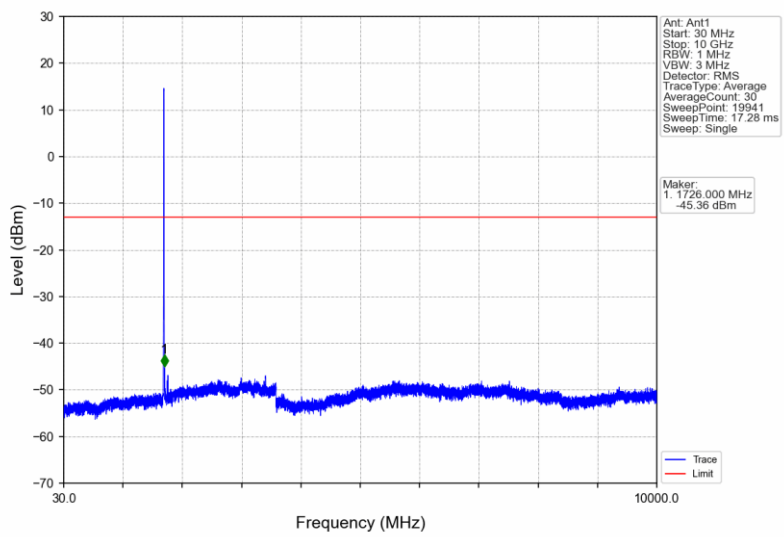
Band IV_HSUPA_LCH_1712.4MHz_Subtest 1_NTNV



Band IV_HSUPA_LCH_1712.4MHz_Subtest 1_NTNV



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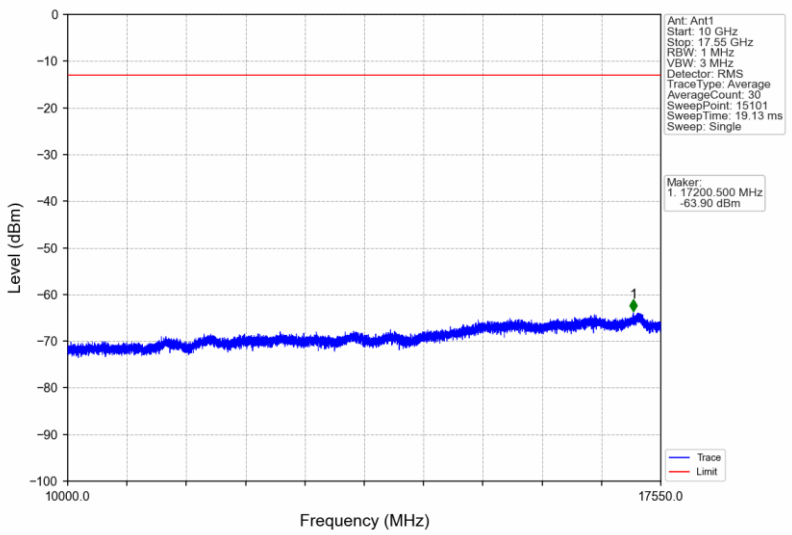
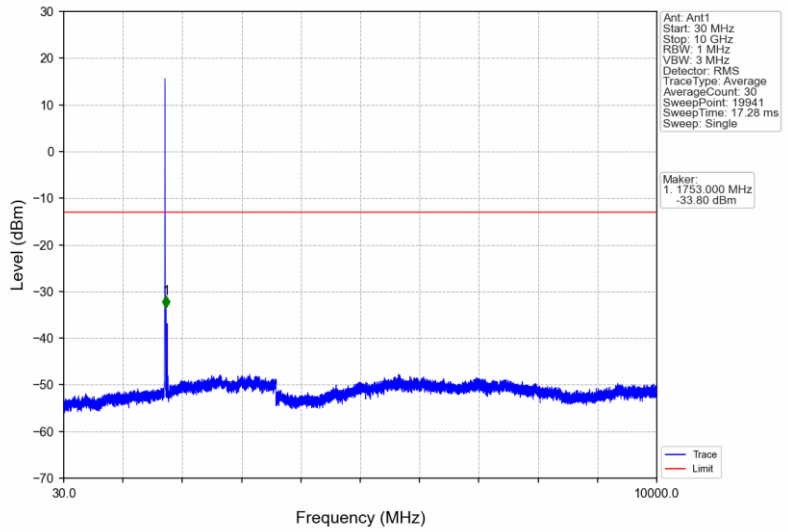
Band IV_HSUPA_LCH_1712.4MHz_Subtest 1_NTNV



Band IV_HSUPA_MCH_1732.6MHz_Subtest 1_NTNV



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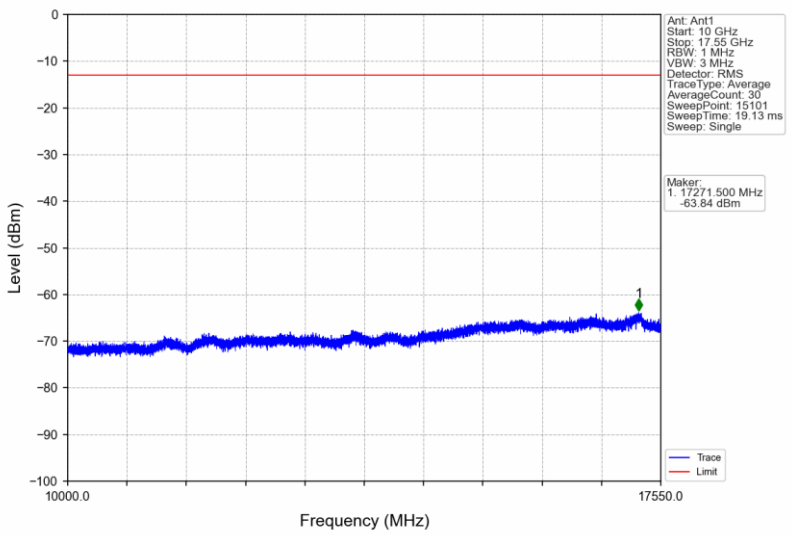
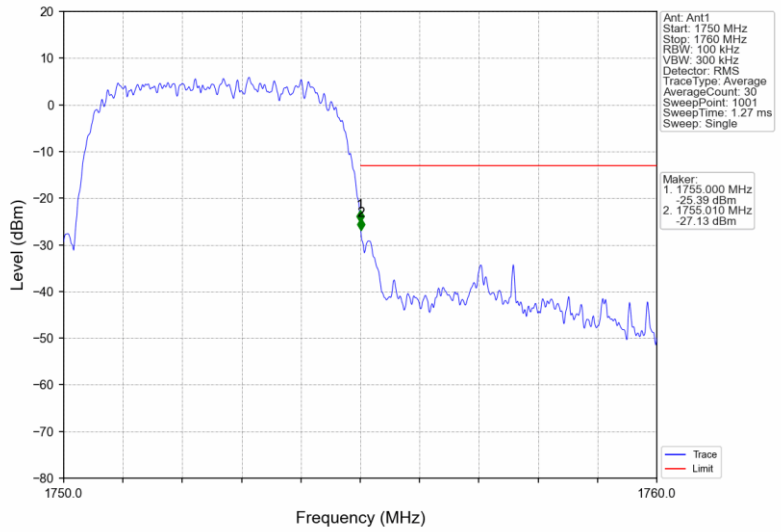


Band IV_HSUPA_HCH_1752.6MHz_Subtest 1_NTNV



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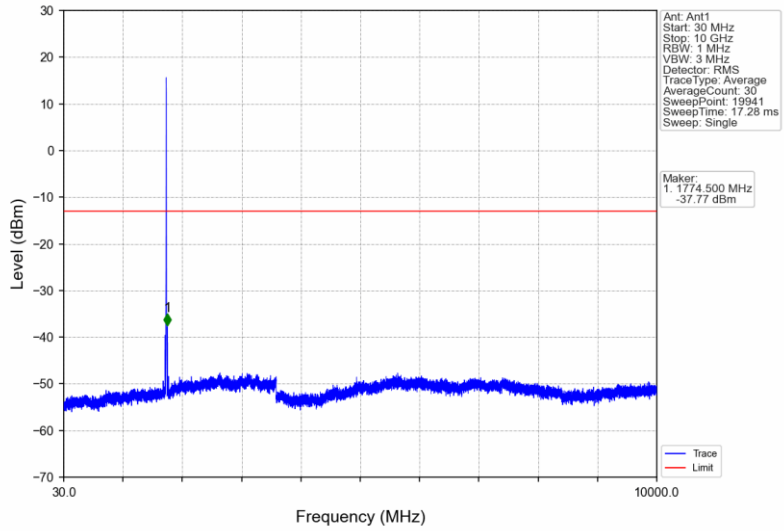
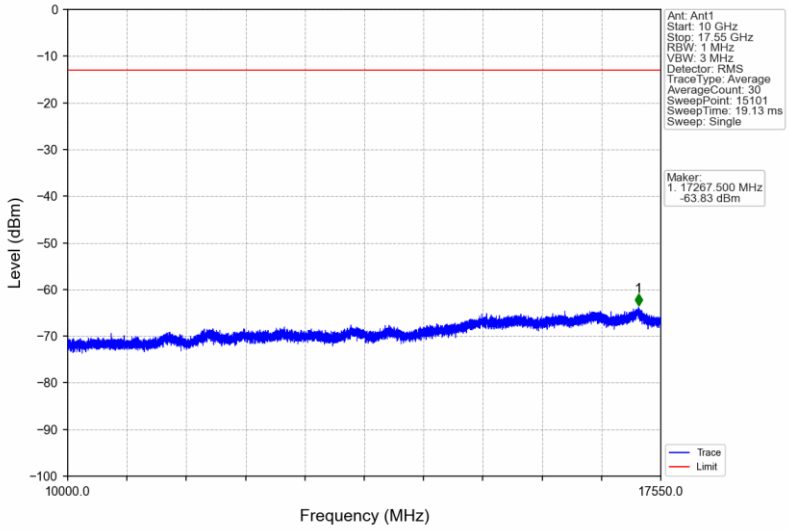
Band IV_HSUPA_HCH_1752.6MHz_Subtest 1_NTNV



Band IV_HSUPA_HCH_1752.6MHz_Subtest 1_NTNV



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6. Field Strength of Spurious Radiation

Test Band = BIV _ TM1
Test Channel = low

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3424.8000	58.53	28.68	-47.01	-55.06	-13.00	42.06	Horizontal
2	5137.2000	44.67	31.73	-47.01	-65.87	-13.00	52.87	Horizontal
3	6849.6000	47.91	35.44	-46.12	-58.03	-13.00	45.03	Horizontal
4	8562.0000	41.42	36.14	-43.29	-60.99	-13.00	47.99	Horizontal
5	10274.4000	37.71	38.73	-40.45	-59.27	-13.00	46.27	Horizontal
6	11986.8000	37.23	39.80	-38.63	-56.86	-13.00	43.86	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3424.8000	57.24	28.68	-47.01	-56.35	-13.00	43.35	Vertical
2	5137.2000	45.11	31.73	-47.01	-65.43	-13.00	52.43	Vertical
3	6849.6000	44.95	35.44	-46.12	-60.99	-13.00	47.99	Vertical
4	8562.0000	41.26	36.14	-43.29	-61.15	-13.00	48.15	Vertical
5	10274.4000	38.33	38.73	-40.45	-58.65	-13.00	45.65	Vertical
6	11986.8000	36.79	39.80	-38.63	-57.30	-13.00	44.30	Vertical

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Test Band = BIV _ TM1
Test Channel = mid

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3465.2000	58.69	28.69	-46.95	-54.83	-13.00	41.83	Horizontal
2	5197.8000	45.91	31.87	-46.92	-64.40	-13.00	51.40	Horizontal
3	6930.4000	47.04	35.63	-45.99	-58.58	-13.00	45.58	Horizontal
4	8663.0000	41.51	36.13	-43.17	-60.79	-13.00	47.79	Horizontal
5	10395.6000	37.88	38.88	-40.47	-58.97	-13.00	45.97	Horizontal
6	12128.2000	36.86	39.79	-38.80	-57.41	-13.00	44.41	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3465.2000	55.41	28.69	-46.95	-58.11	-13.00	45.11	Vertical
2	5197.8000	46.40	31.87	-46.92	-63.91	-13.00	50.91	Vertical
3	6930.4000	45.37	35.63	-45.99	-60.25	-13.00	47.25	Vertical
4	8663.0000	41.24	36.13	-43.17	-61.06	-13.00	48.06	Vertical
5	10395.6000	38.20	38.88	-40.47	-58.65	-13.00	45.65	Vertical
6	12128.2000	36.93	39.79	-38.80	-57.34	-13.00	44.34	Vertical

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Test Band = BIV _ TM1
Test Channel = high

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3505.2000	58.22	28.71	-46.94	-55.27	-13.00	42.27	Horizontal
2	5257.8000	45.24	32.02	-47.04	-65.04	-13.00	52.04	Horizontal
3	7010.4000	46.47	35.81	-45.73	-58.71	-13.00	45.71	Horizontal
4	8763.0000	40.99	36.12	-43.26	-61.41	-13.00	48.41	Horizontal
5	10515.6000	38.30	39.02	-40.30	-58.24	-13.00	45.24	Horizontal
6	12268.2000	37.48	39.77	-38.38	-56.39	-13.00	43.39	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3505.2000	55.79	28.71	-46.94	-57.70	-13.00	44.70	Vertical
2	5257.8000	45.47	32.02	-47.04	-64.81	-13.00	51.81	Vertical
3	7010.4000	45.16	35.81	-45.73	-60.02	-13.00	47.02	Vertical
4	8763.0000	41.06	36.12	-43.26	-61.34	-13.00	48.34	Vertical
5	10515.6000	38.35	39.02	-40.30	-58.19	-13.00	45.19	Vertical
6	12268.2000	37.07	39.77	-38.38	-56.80	-13.00	43.80	Vertical

Remark:
1) The field strength is calculated by adding the Antenna Factor, Cable Factor & AMP. The basic equation with a sample calculation is as follows:
AF = Antenna Factor(dB/m)
Factor = Cable Factor(dB) - Preamplifier (dB)
Level = Reading Level + AF + Factor -95.26
Margin = Limit – Level
2) All antennas of RSE are tested, and only the worst data is presented.

---End of Attachment---

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