

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	22.42	0.53	22.95	<=30	Pass			
			1732.6	22.50	0.53	23.03	<=30	Pass			
			1752.6	22.41	0.53	22.94	<=30	Pass			
	HSDPA	Subtest 1-4	Subtest 1	1712.4	20.26	0.53	20.79	<=30	Pass		
			Subtest 2	1712.4	20.30	0.53	20.83	<=30	Pass		
			Subtest 3	1712.4	20.26	0.53	20.79	<=30	Pass		
			Subtest 4	1712.4	20.26	0.53	20.79	<=30	Pass		
			Subtest 1	1732.6	20.11	0.53	20.64	<=30	Pass		
			Subtest 2	1732.6	20.11	0.53	20.64	<=30	Pass		
			Subtest 3	1732.6	20.10	0.53	20.63	<=30	Pass		
			Subtest 4	1732.6	20.10	0.53	20.63	<=30	Pass		
			Subtest 1	1752.6	20.21	0.53	20.74	<=30	Pass		
			Subtest 2	1752.6	20.19	0.53	20.72	<=30	Pass		
			Subtest 3	1752.6	20.19	0.53	20.72	<=30	Pass		
			Subtest 4	1752.6	20.21	0.53	20.74	<=30	Pass		
			HSUPA	Subtest 1-5	Subtest 1	1712.4	17.64	0.53	18.17	<=30	Pass
					Subtest 2	1712.4	18.15	0.53	18.68	<=30	Pass
					Subtest 3	1712.4	17.67	0.53	18.20	<=30	Pass
					Subtest 4	1712.4	18.15	0.53	18.68	<=30	Pass
					Subtest 5	1712.4	18.15	0.53	18.68	<=30	Pass
	Subtest 1	1732.6			17.67	0.53	18.20	<=30	Pass		
	Subtest 2	1732.6			17.66	0.53	18.19	<=30	Pass		
	Subtest 3	1732.6			18.00	0.53	18.53	<=30	Pass		
	Subtest 4	1732.6			18.19	0.53	18.72	<=30	Pass		
	Subtest 5	1732.6			18.19	0.53	18.72	<=30	Pass		
	Subtest 1	1752.6			17.94	0.53	18.47	<=30	Pass		
	Subtest 2	1752.6			17.94	0.53	18.47	<=30	Pass		
	Subtest 3	1752.6			17.97	0.53	18.50	<=30	Pass		
	Subtest 4	1752.6	18.17	0.53	18.70	<=30	Pass				
	Subtest 5	1752.6	17.97	0.53	18.50	<=30	Pass				

Note1: EIRP=Conducted Power+Antenna Gain

2. Frequency Stability

2.1 Band4

2.1.1 Test Result

Band: 4							
Network	Frequency (MHz)	Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
					Result	Limit	

RMC	1712.4	20	3.27	-16.465	-0.0096	-2.5 to 2.5	Pass
			3.85	-18.082	-0.0106	-2.5 to 2.5	Pass
			4.43	-18.604	-0.0109	-2.5 to 2.5	Pass
		-30	3.85	-16.773	-0.0098	-2.5 to 2.5	Pass
		-20	3.85	-20.556	-0.0120	-2.5 to 2.5	Pass
		-10	3.85	-16.844	-0.0098	-2.5 to 2.5	Pass
		0	3.85	-19.784	-0.0116	-2.5 to 2.5	Pass
		10	3.85	-17.931	-0.0105	-2.5 to 2.5	Pass
		30	3.85	-16.937	-0.0099	-2.5 to 2.5	Pass
		40	3.85	-17.881	-0.0104	-2.5 to 2.5	Pass
	50	3.85	-17.173	-0.0100	-2.5 to 2.5	Pass	
	1732.6	20	3.27	-12.753	-0.0074	-2.5 to 2.5	Pass
			3.85	-17.045	-0.0098	-2.5 to 2.5	Pass
			4.43	-14.706	-0.0085	-2.5 to 2.5	Pass
		-30	3.85	-17.424	-0.0101	-2.5 to 2.5	Pass
		-20	3.85	-15.013	-0.0087	-2.5 to 2.5	Pass
		-10	3.85	-9.105	-0.0053	-2.5 to 2.5	Pass
		0	3.85	-14.734	-0.0085	-2.5 to 2.5	Pass
		10	3.85	-18.590	-0.0107	-2.5 to 2.5	Pass
		30	3.85	-17.145	-0.0099	-2.5 to 2.5	Pass
		40	3.85	-13.011	-0.0075	-2.5 to 2.5	Pass
	50	3.85	-15.779	-0.0091	-2.5 to 2.5	Pass	
	1752.6	20	3.27	-13.976	-0.0080	-2.5 to 2.5	Pass
			3.85	-11.716	-0.0067	-2.5 to 2.5	Pass
			4.43	-16.429	-0.0094	-2.5 to 2.5	Pass
		-30	3.85	-12.589	-0.0072	-2.5 to 2.5	Pass
		-20	3.85	-14.813	-0.0085	-2.5 to 2.5	Pass
		-10	3.85	-11.616	-0.0066	-2.5 to 2.5	Pass
		0	3.85	-13.654	-0.0078	-2.5 to 2.5	Pass
		10	3.85	-11.230	-0.0064	-2.5 to 2.5	Pass
30		3.85	-13.533	-0.0077	-2.5 to 2.5	Pass	
40		3.85	-12.674	-0.0072	-2.5 to 2.5	Pass	
50	3.85	-13.840	-0.0079	-2.5 to 2.5	Pass		
HSDPA	1712.4	20	3.27	-12.810	-0.0075	-2.5 to 2.5	Pass
			3.85	-9.871	-0.0058	-2.5 to 2.5	Pass
			4.43	-11.079	-0.0065	-2.5 to 2.5	Pass
		-30	3.85	-9.856	-0.0058	-2.5 to 2.5	Pass
		-20	3.85	-6.938	-0.0041	-2.5 to 2.5	Pass
		-10	3.85	-7.818	-0.0046	-2.5 to 2.5	Pass
		0	3.85	-9.220	-0.0054	-2.5 to 2.5	Pass
		10	3.85	-10.250	-0.0060	-2.5 to 2.5	Pass
		30	3.85	-8.912	-0.0052	-2.5 to 2.5	Pass
		40	3.85	-8.476	-0.0049	-2.5 to 2.5	Pass
	50	3.85	-5.836	-0.0034	-2.5 to 2.5	Pass	
	1732.6	20	3.27	-10.142	-0.0059	-2.5 to 2.5	Pass
			3.85	-12.252	-0.0071	-2.5 to 2.5	Pass
			4.43	-14.770	-0.0085	-2.5 to 2.5	Pass
		-30	3.85	-16.601	-0.0096	-2.5 to 2.5	Pass
		-20	3.85	-16.179	-0.0093	-2.5 to 2.5	Pass
		-10	3.85	-17.953	-0.0104	-2.5 to 2.5	Pass
		0	3.85	-18.375	-0.0106	-2.5 to 2.5	Pass
		10	3.85	-14.491	-0.0084	-2.5 to 2.5	Pass
		30	3.85	-12.717	-0.0073	-2.5 to 2.5	Pass
40		3.85	-19.355	-0.0112	-2.5 to 2.5	Pass	

	1752.6	50	3.85	-16.851	-0.0097	-2.5 to 2.5	Pass
		20	3.27	-12.267	-0.0070	-2.5 to 2.5	Pass
			3.85	-10.357	-0.0059	-2.5 to 2.5	Pass
			4.43	-9.570	-0.0055	-2.5 to 2.5	Pass
		-30	3.85	-10.414	-0.0059	-2.5 to 2.5	Pass
		-20	3.85	-8.912	-0.0051	-2.5 to 2.5	Pass
		-10	3.85	-9.491	-0.0054	-2.5 to 2.5	Pass
		0	3.85	-11.938	-0.0068	-2.5 to 2.5	Pass
		10	3.85	-5.701	-0.0033	-2.5 to 2.5	Pass
		30	3.85	-2.017	-0.0012	-2.5 to 2.5	Pass
40	3.85	-7.160	-0.0041	-2.5 to 2.5	Pass		
50	3.85	-6.545	-0.0037	-2.5 to 2.5	Pass		
HSUPA	1712.4	20	3.27	-14.899	-0.0087	-2.5 to 2.5	Pass
			3.85	-16.408	-0.0096	-2.5 to 2.5	Pass
			4.43	-15.628	-0.0091	-2.5 to 2.5	Pass
		-30	3.85	-15.156	-0.0089	-2.5 to 2.5	Pass
		-20	3.85	-19.455	-0.0114	-2.5 to 2.5	Pass
		-10	3.85	-14.620	-0.0085	-2.5 to 2.5	Pass
		0	3.85	-19.827	-0.0116	-2.5 to 2.5	Pass
		10	3.85	-16.451	-0.0096	-2.5 to 2.5	Pass
		30	3.85	-13.239	-0.0077	-2.5 to 2.5	Pass
		40	3.85	-13.747	-0.0080	-2.5 to 2.5	Pass
	50	3.85	-14.598	-0.0085	-2.5 to 2.5	Pass	
	1732.6	20	3.27	-14.699	-0.0085	-2.5 to 2.5	Pass
			3.85	-16.887	-0.0097	-2.5 to 2.5	Pass
			4.43	-15.407	-0.0089	-2.5 to 2.5	Pass
		-30	3.85	-12.453	-0.0072	-2.5 to 2.5	Pass
		-20	3.85	-17.080	-0.0099	-2.5 to 2.5	Pass
		-10	3.85	-14.012	-0.0081	-2.5 to 2.5	Pass
		0	3.85	-17.216	-0.0099	-2.5 to 2.5	Pass
		10	3.85	-15.972	-0.0092	-2.5 to 2.5	Pass
		30	3.85	-20.664	-0.0119	-2.5 to 2.5	Pass
		40	3.85	-16.065	-0.0093	-2.5 to 2.5	Pass
	50	3.85	-16.358	-0.0094	-2.5 to 2.5	Pass	
	1752.6	20	3.27	-15.106	-0.0086	-2.5 to 2.5	Pass
			3.85	-13.661	-0.0078	-2.5 to 2.5	Pass
			4.43	-15.793	-0.0090	-2.5 to 2.5	Pass
		-30	3.85	-16.794	-0.0096	-2.5 to 2.5	Pass
		-20	3.85	-13.154	-0.0075	-2.5 to 2.5	Pass
		-10	3.85	-15.213	-0.0087	-2.5 to 2.5	Pass
		0	3.85	-11.029	-0.0063	-2.5 to 2.5	Pass
		10	3.85	-15.535	-0.0089	-2.5 to 2.5	Pass
30		3.85	-10.943	-0.0062	-2.5 to 2.5	Pass	
40		3.85	-13.103	-0.0075	-2.5 to 2.5	Pass	
50	3.85	-18.260	-0.0104	-2.5 to 2.5	Pass		

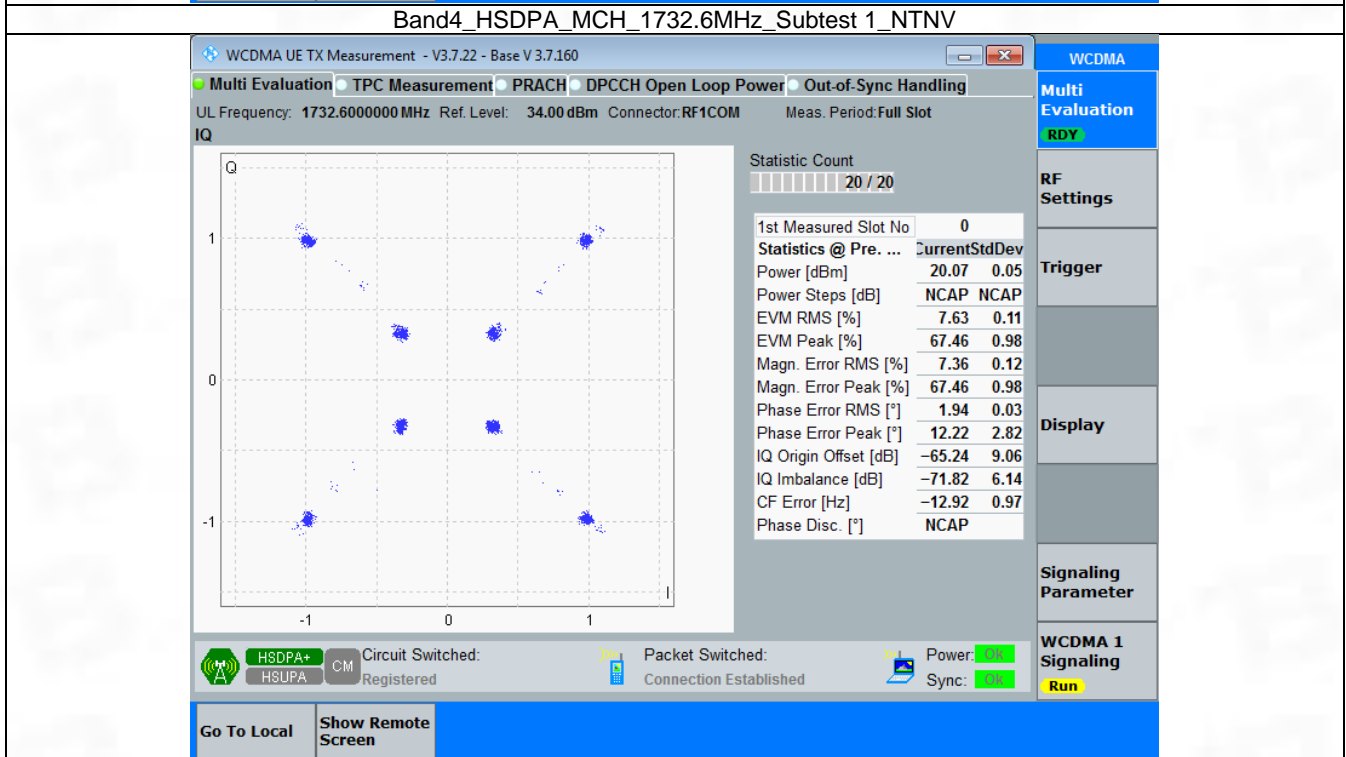
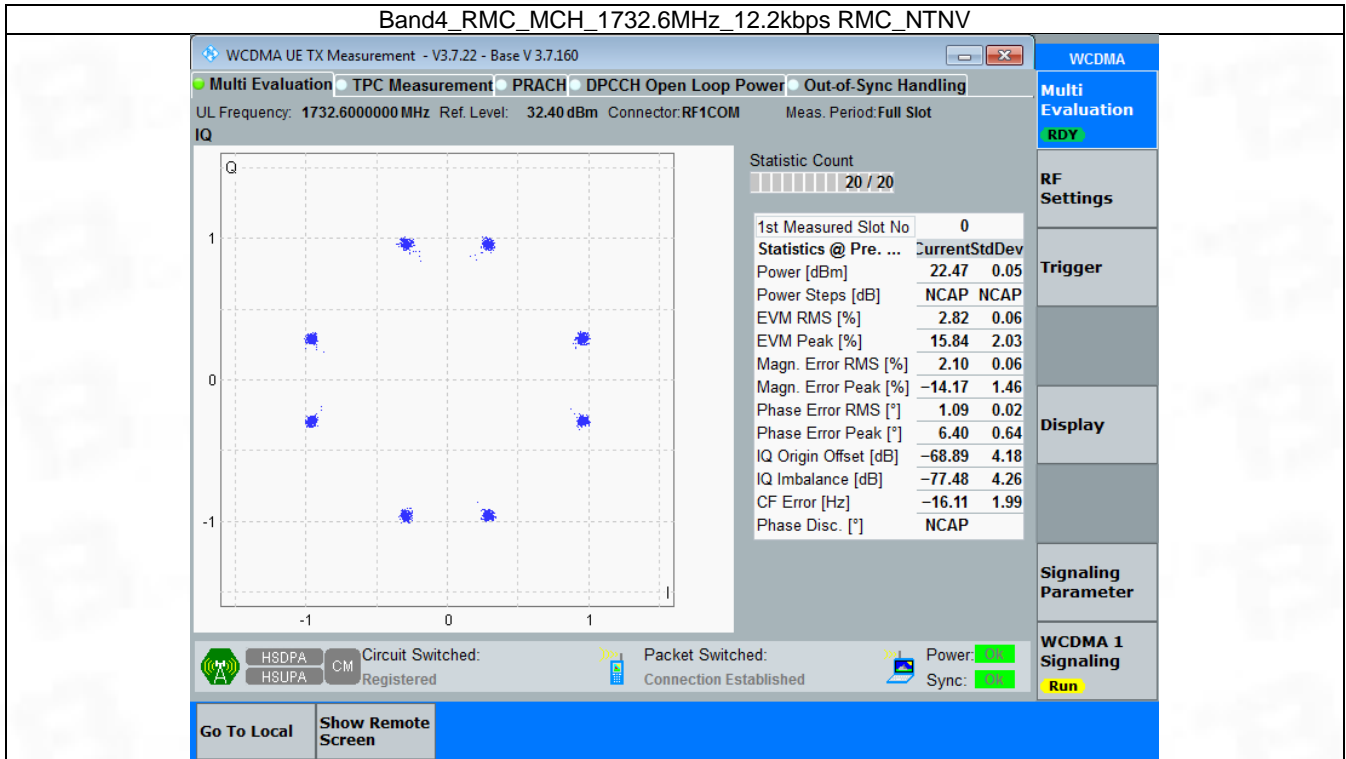
3. Modulation Characteristics

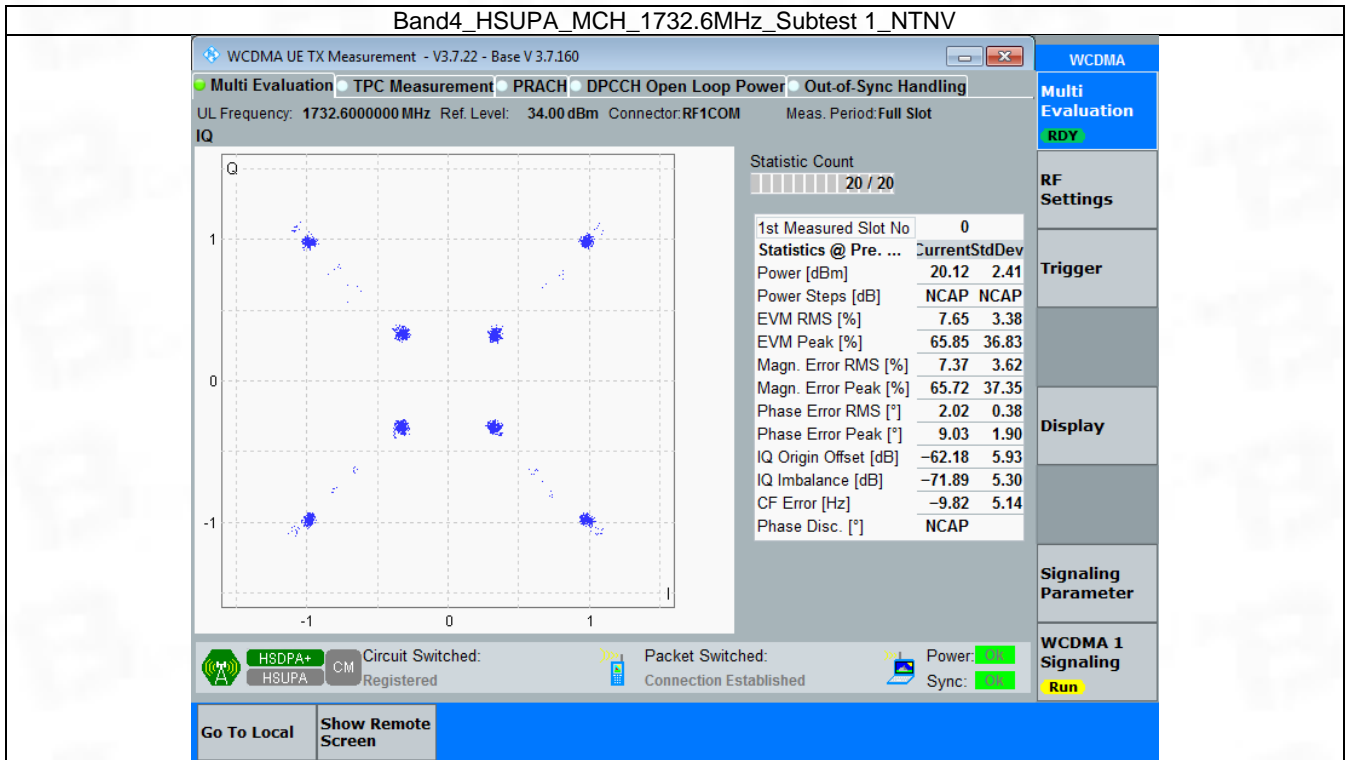
3.1 Band4

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

3.1.2 Test Graph





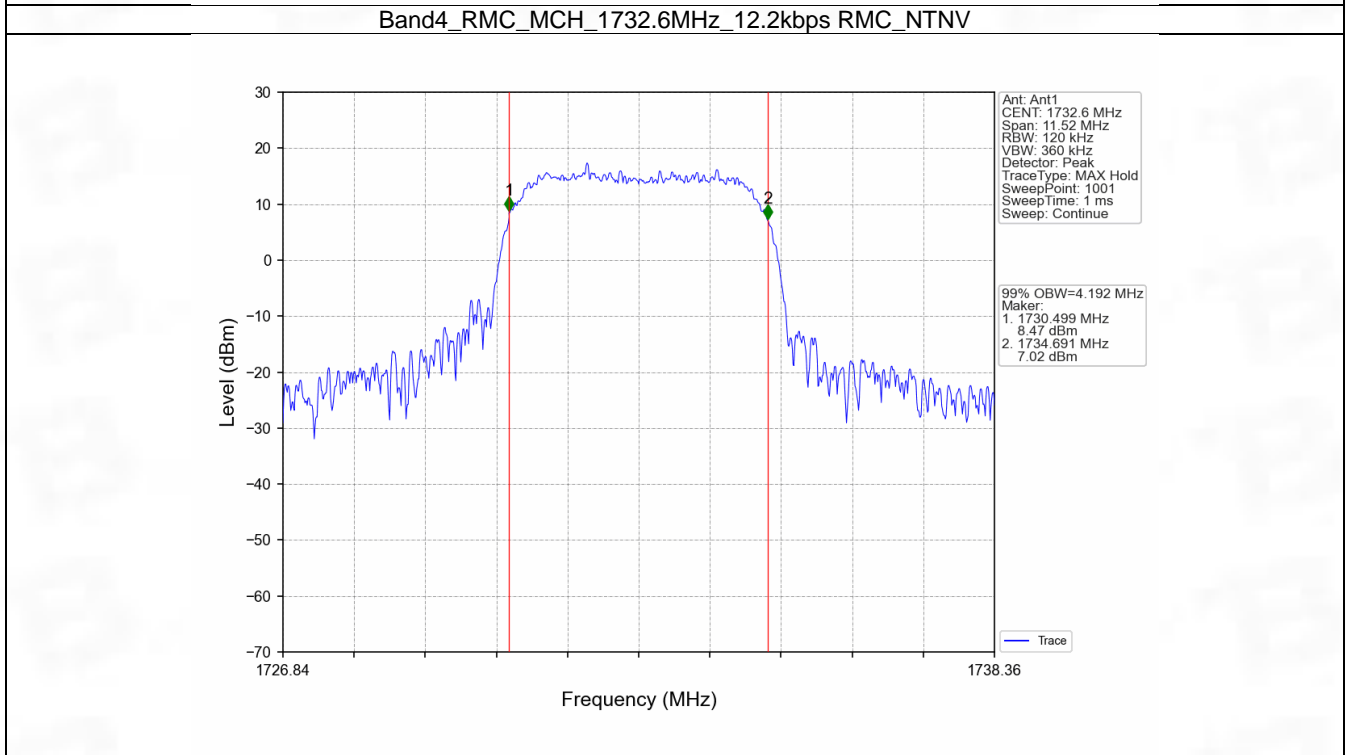
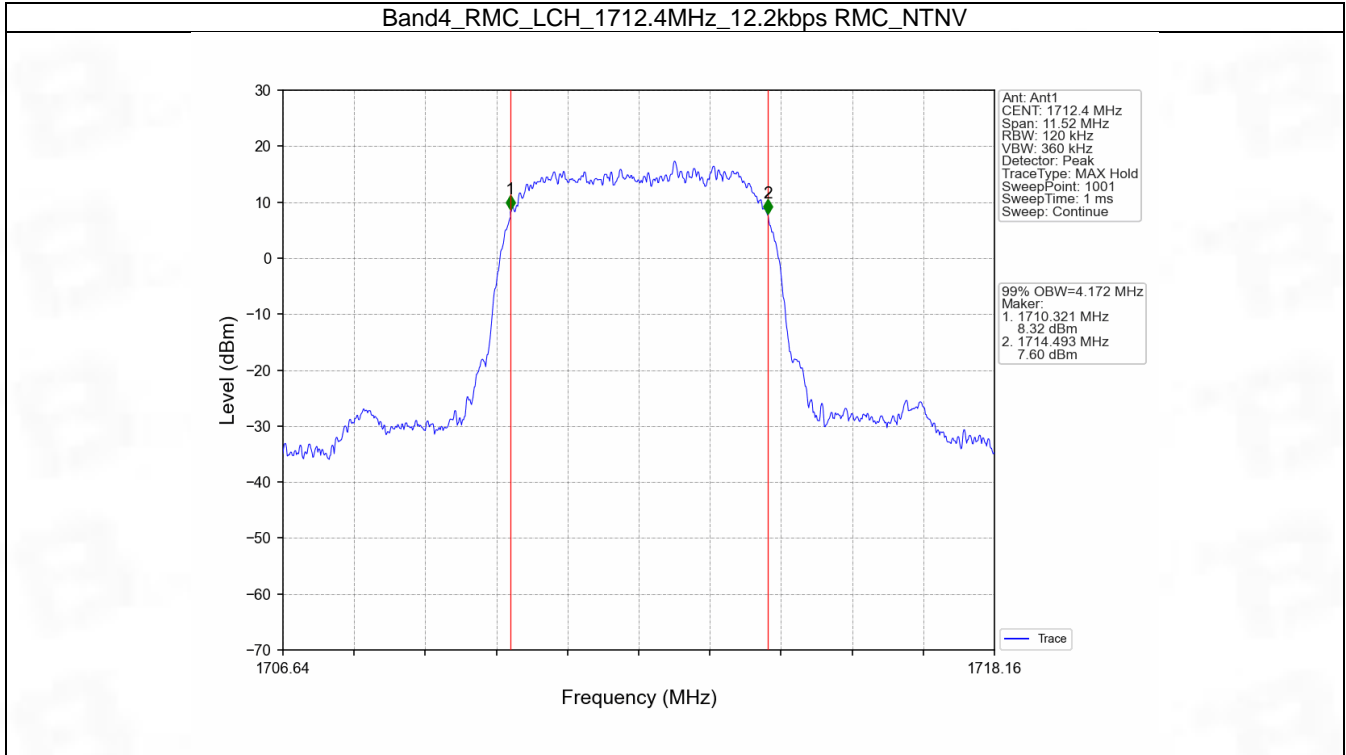
4. 99% & 26dB Bandwidth

4.1 Band4_OBW

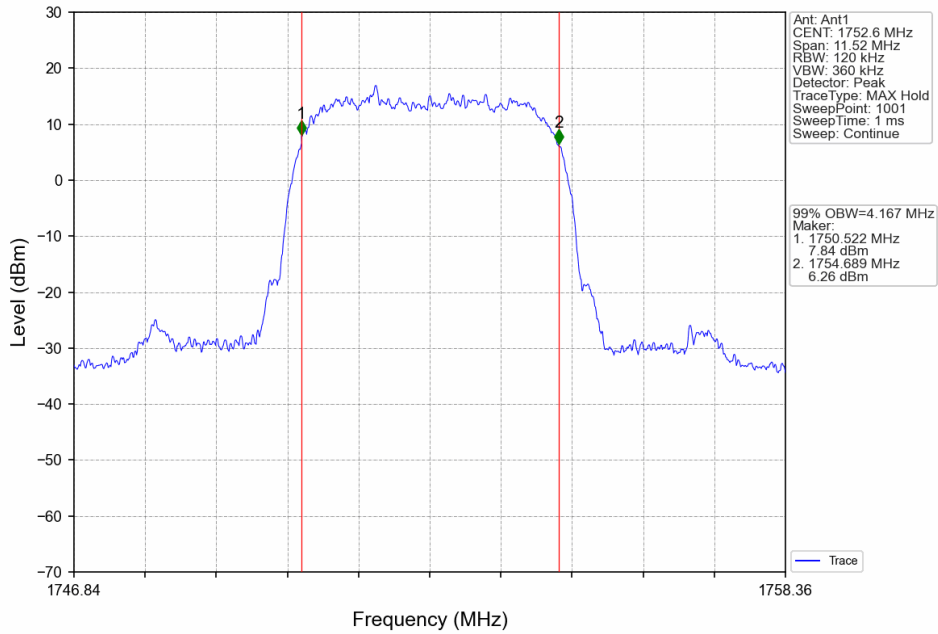
4.1.1 Test Result

Band: 4					
ENV	Mode		Frequency (MHz)	99% Occupied Bandwidth (MHz)	Verdict
	Network	Subset		Result	
NTNV	RMC	12.2kbps RMC	1712.4	4.172	Pass
			1732.6	4.192	Pass
			1752.6	4.167	Pass
	HSDPA	Subtest 1	1712.4	4.273	Pass
			1732.6	4.218	Pass
			1752.6	4.245	Pass
	HSUPA	Subtest 1	1712.4	4.260	Pass
			1732.6	4.203	Pass
			1752.6	4.252	Pass

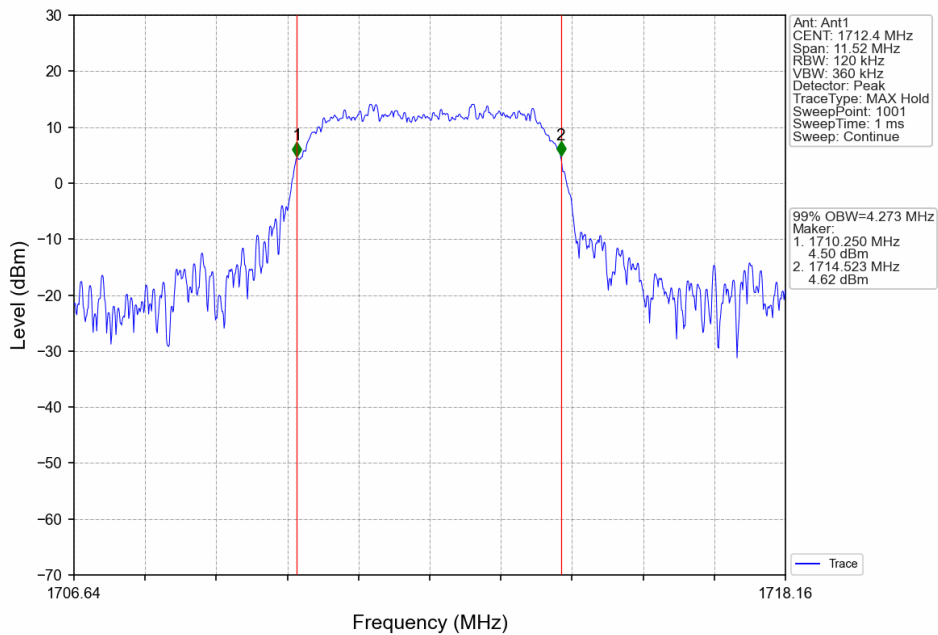
4.1.2 Test Graph



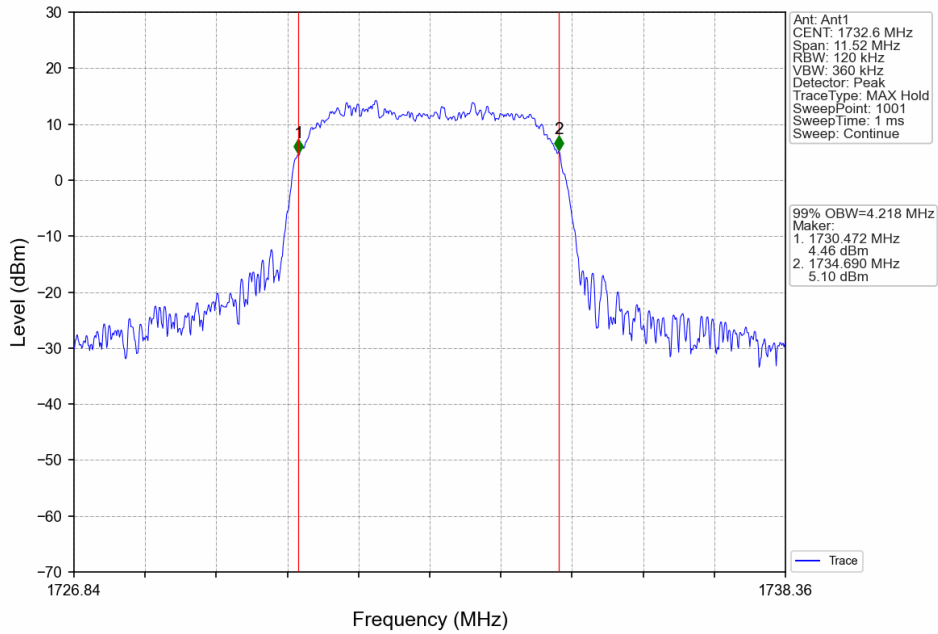
Band4_RMC_HCH_1752.6MHz_12.2kbps RMC_NTNV



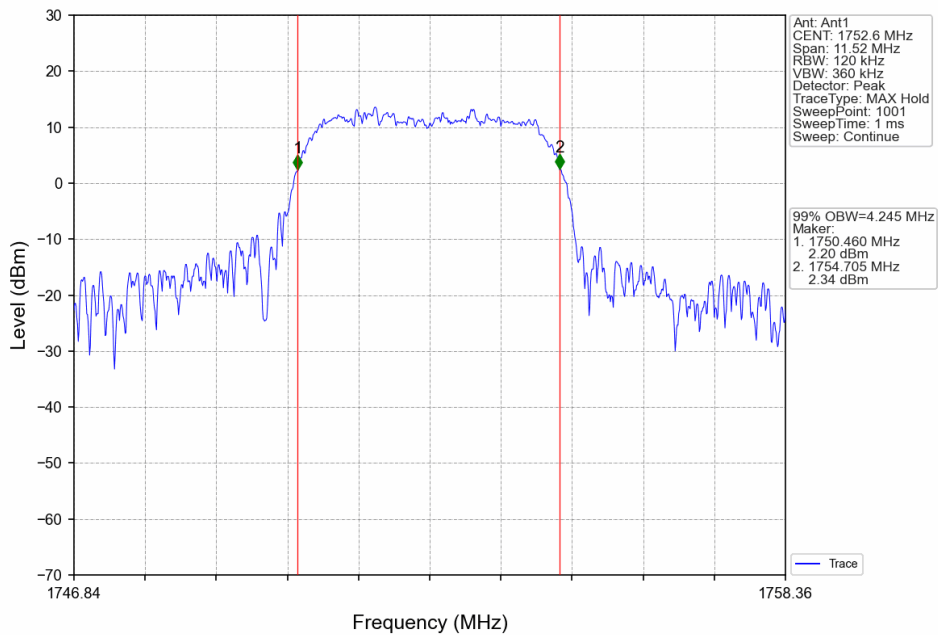
Band4_HSDPA_LCH_1712.4MHz_Subtest 1_NTNV



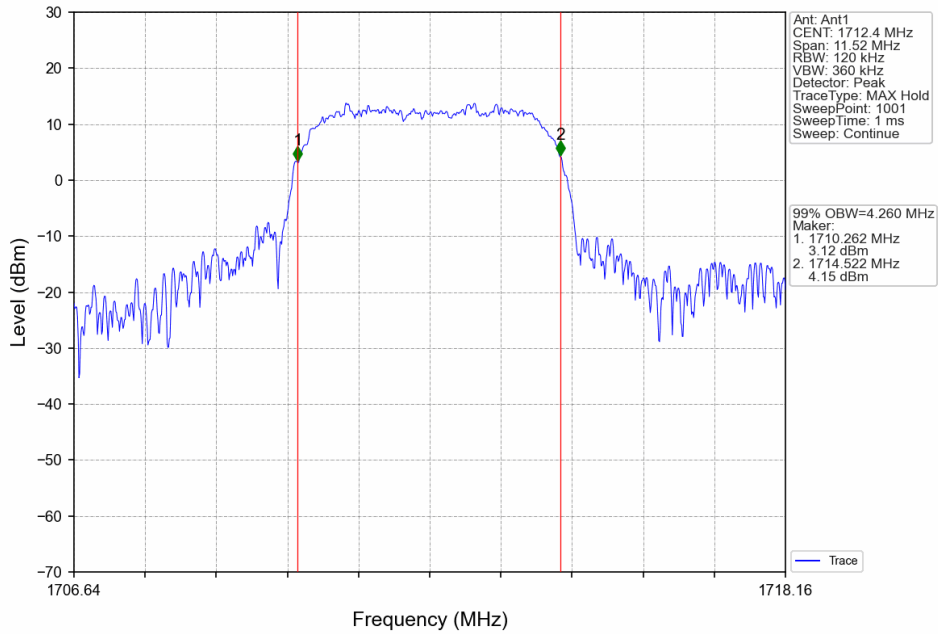
Band4_HSDPA_MCH_1732.6MHz_Subtest 1_NTNV



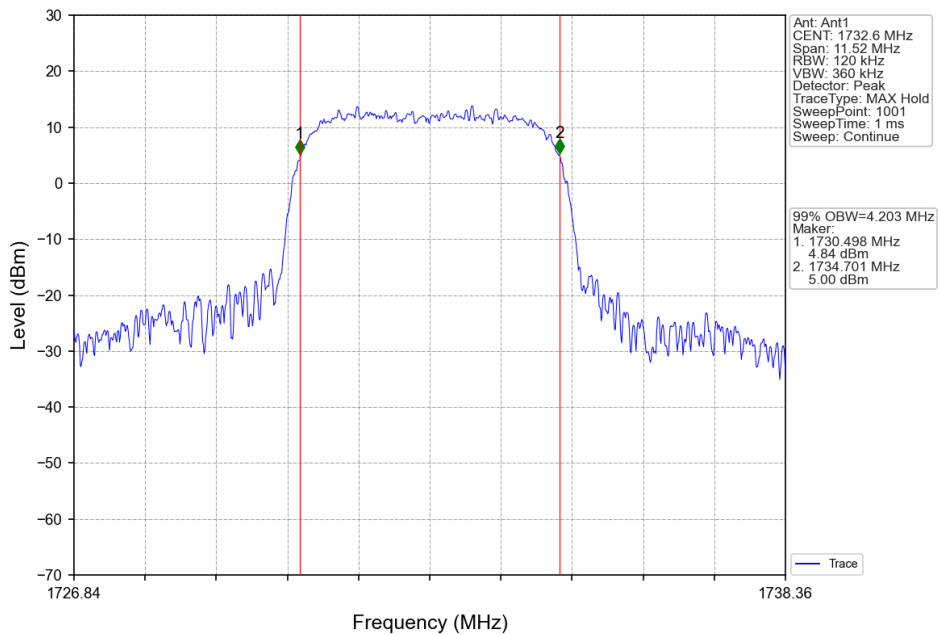
Band4_HSDPA_HCH_1752.6MHz_Subtest 1_NTNV

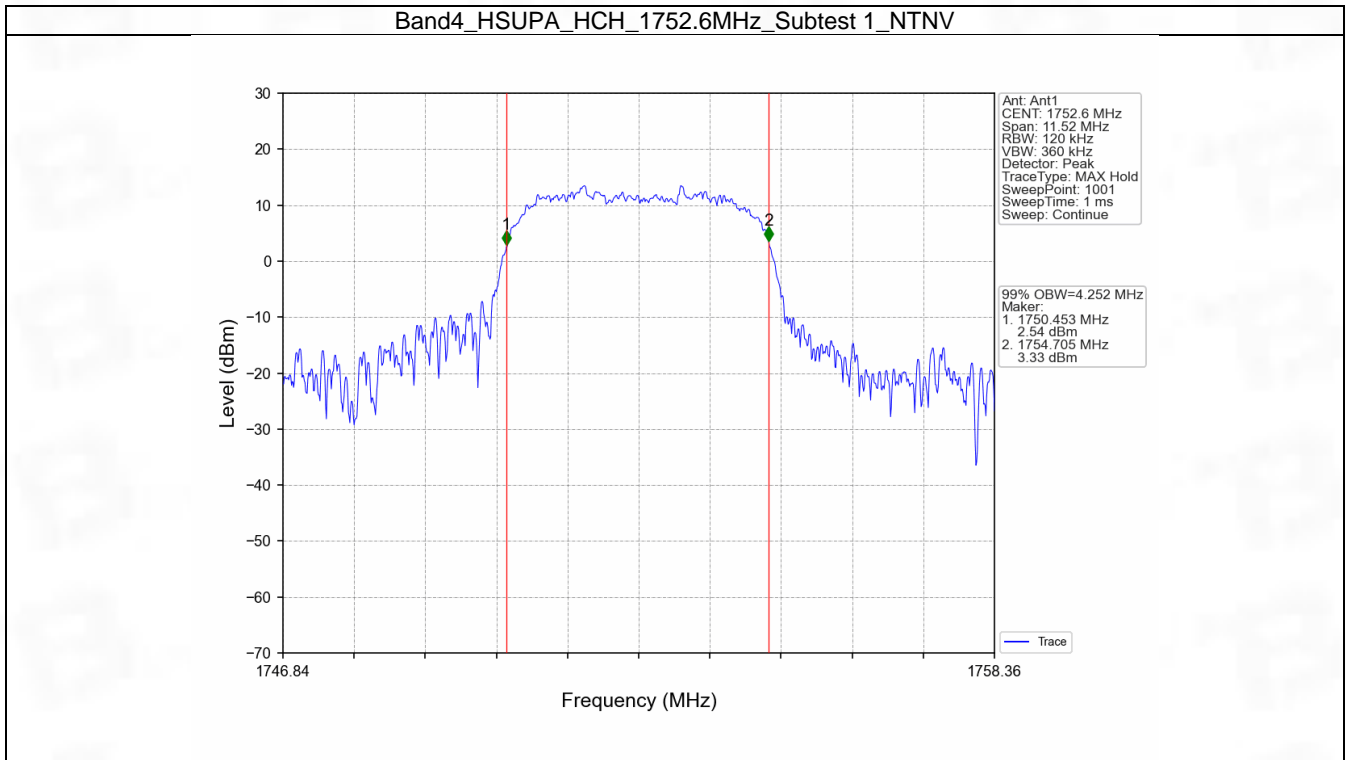


Band4_HSUPA_LCH_1712.4MHz_Subtest 1_NTNV



Band4_HSUPA_MCH_1732.6MHz_Subtest 1_NTNV



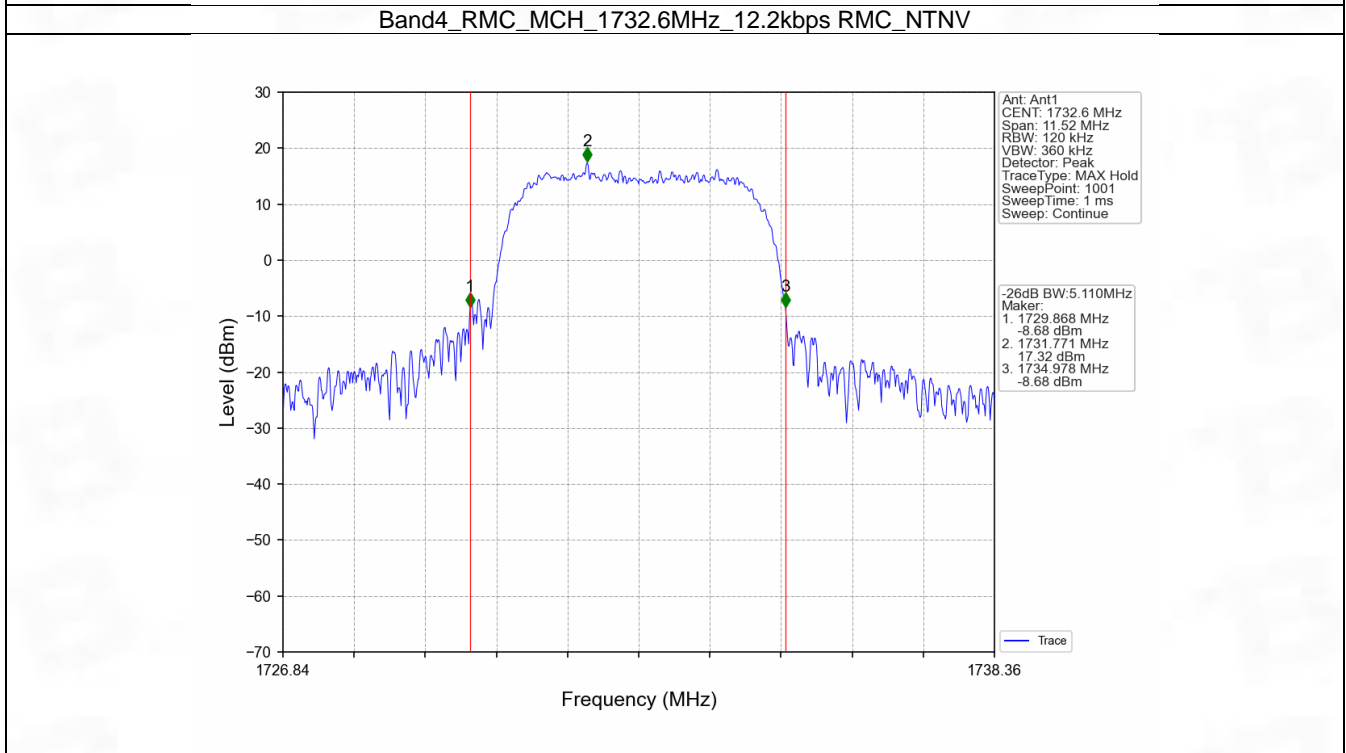
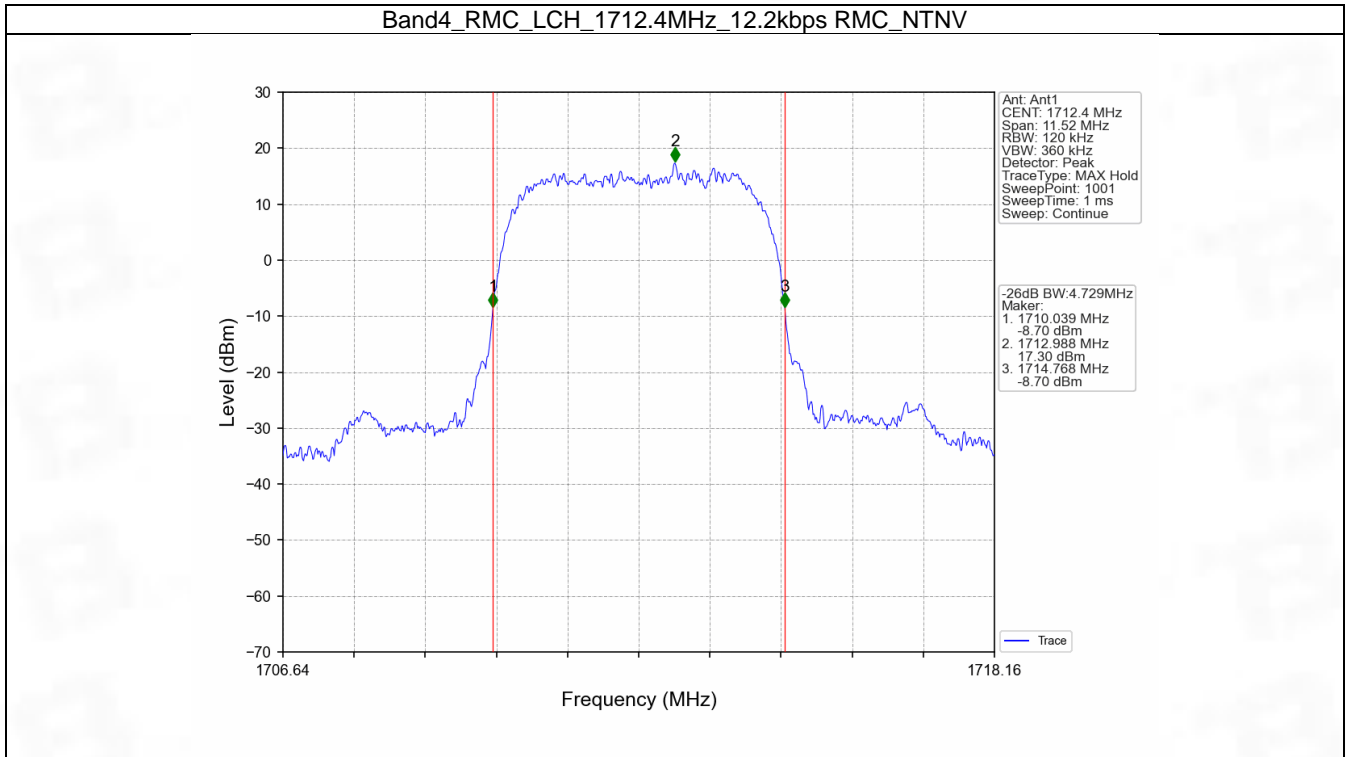


4.2 Band4_XDB

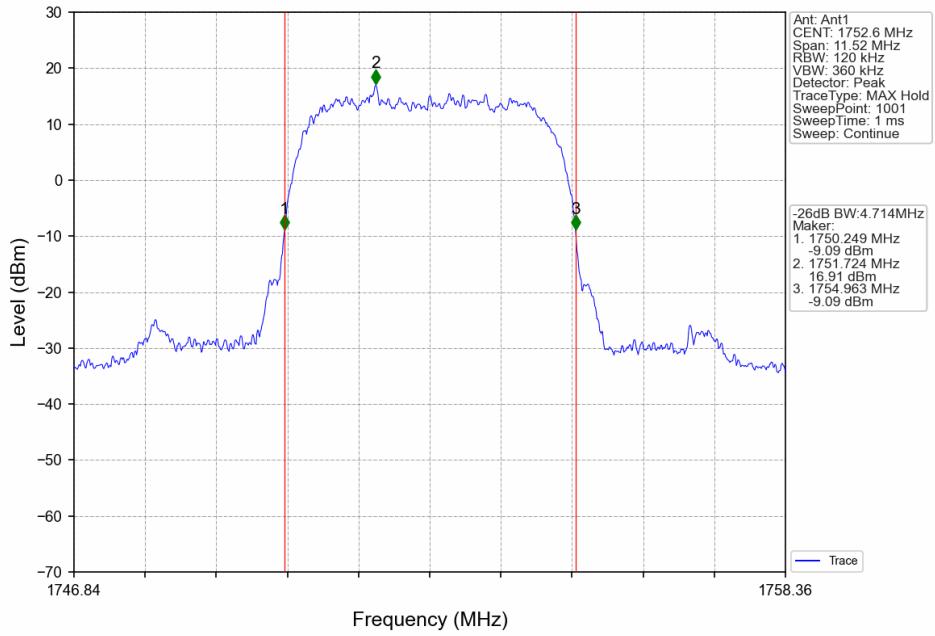
4.2.1 Test Result

Band: 4					
ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)	Verdict
	Network	Subset		Result	
NTNV	RMC	12.2kbps RMC	1712.4	4.729	Pass
			1732.6	5.110	Pass
			1752.6	4.714	Pass
	HSDPA	Subtest 1	1712.4	6.089	Pass
			1732.6	4.749	Pass
			1752.6	6.013	Pass
	HSUPA	Subtest 1	1712.4	6.454	Pass
			1732.6	4.750	Pass
			1752.6	6.281	Pass

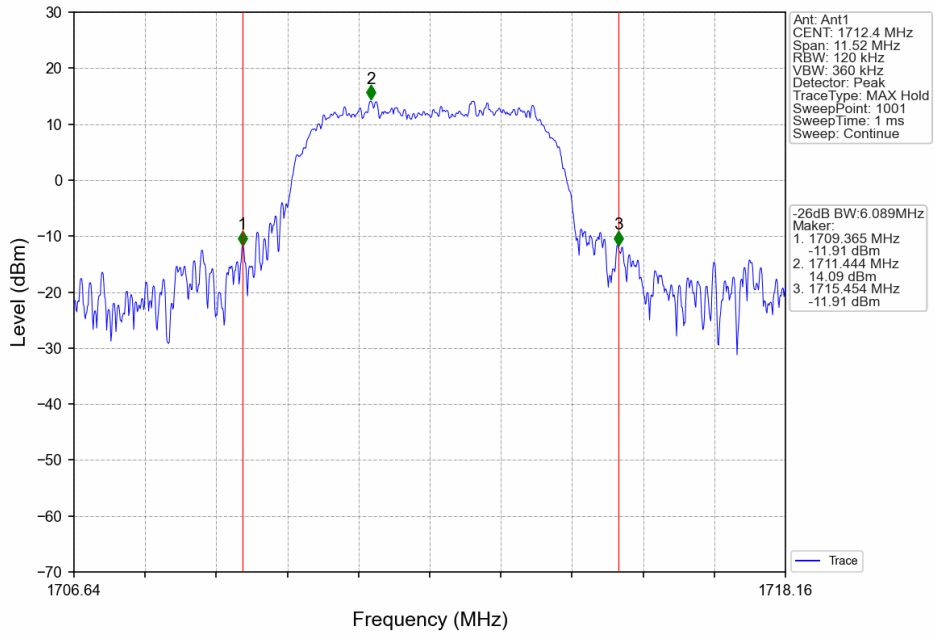
4.2.2 Test Graph



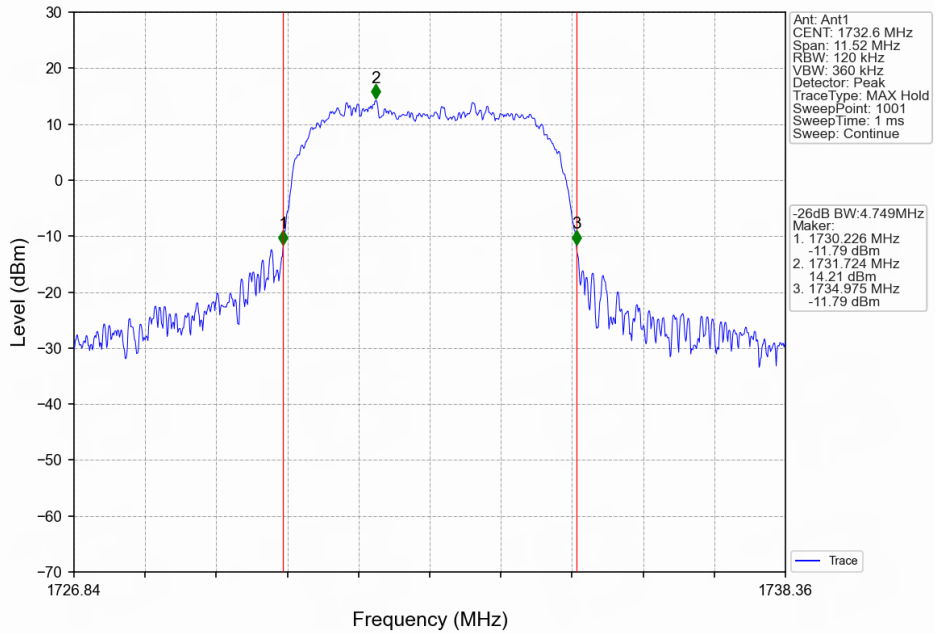
Band4_RMC_HCH_1752.6MHz_12.2kbps RMC_NTNV



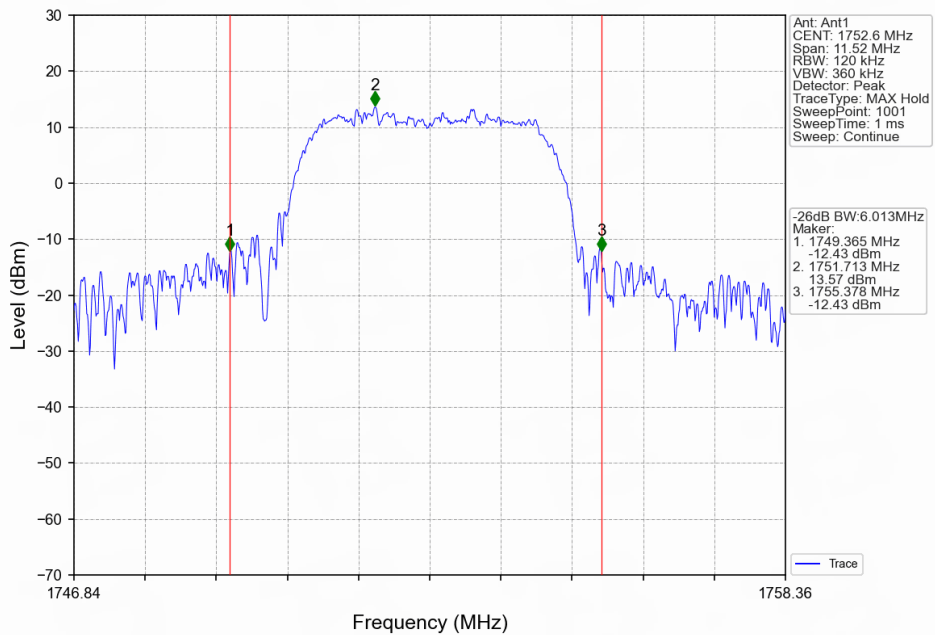
Band4_HSDPA_LCH_1712.4MHz_Subtest 1_NTNV



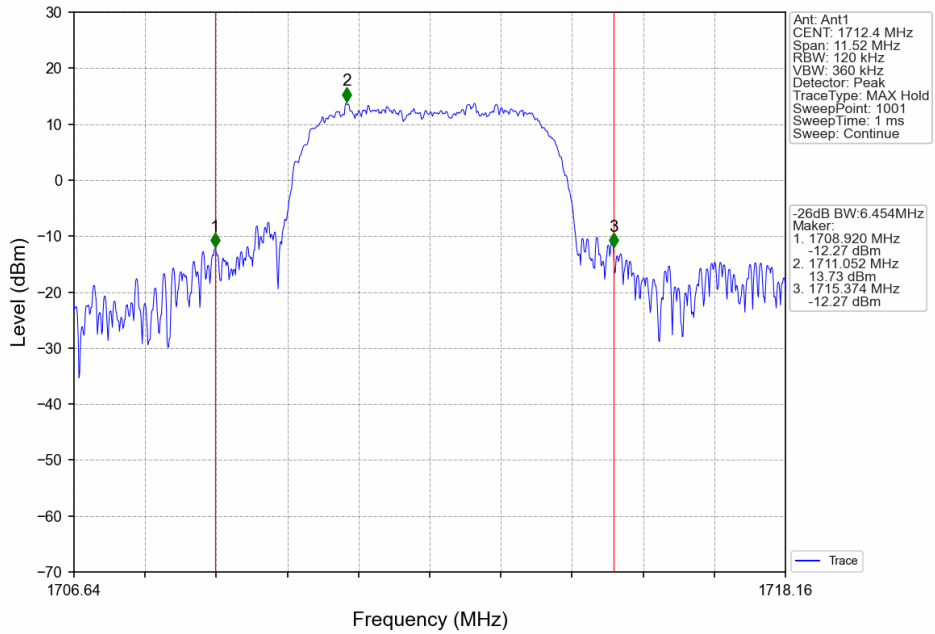
Band4_HSDPA_MCH_1732.6MHz_Subtest 1_NTNV



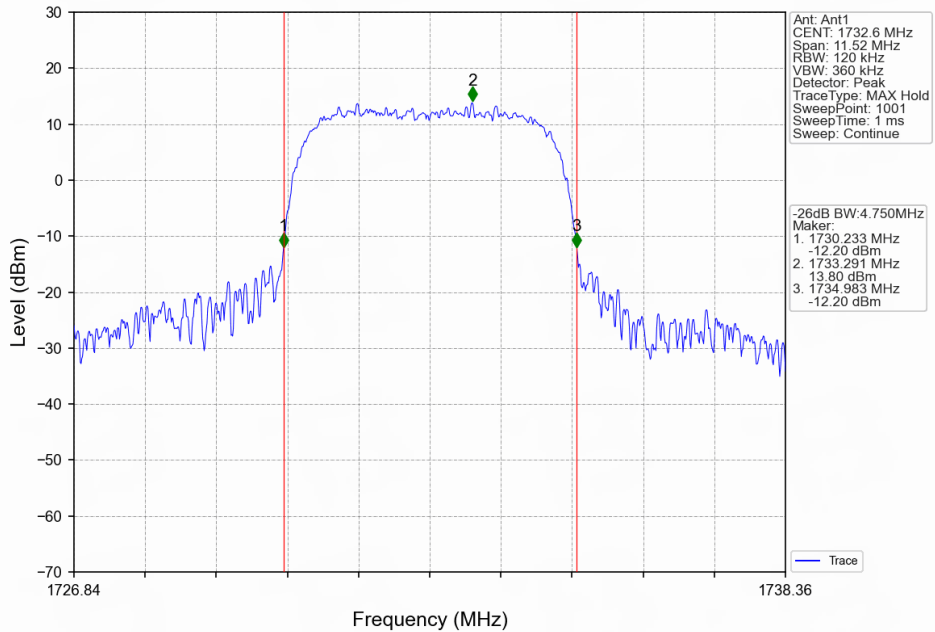
Band4_HSDPA_HCH_1752.6MHz_Subtest 1_NTNV

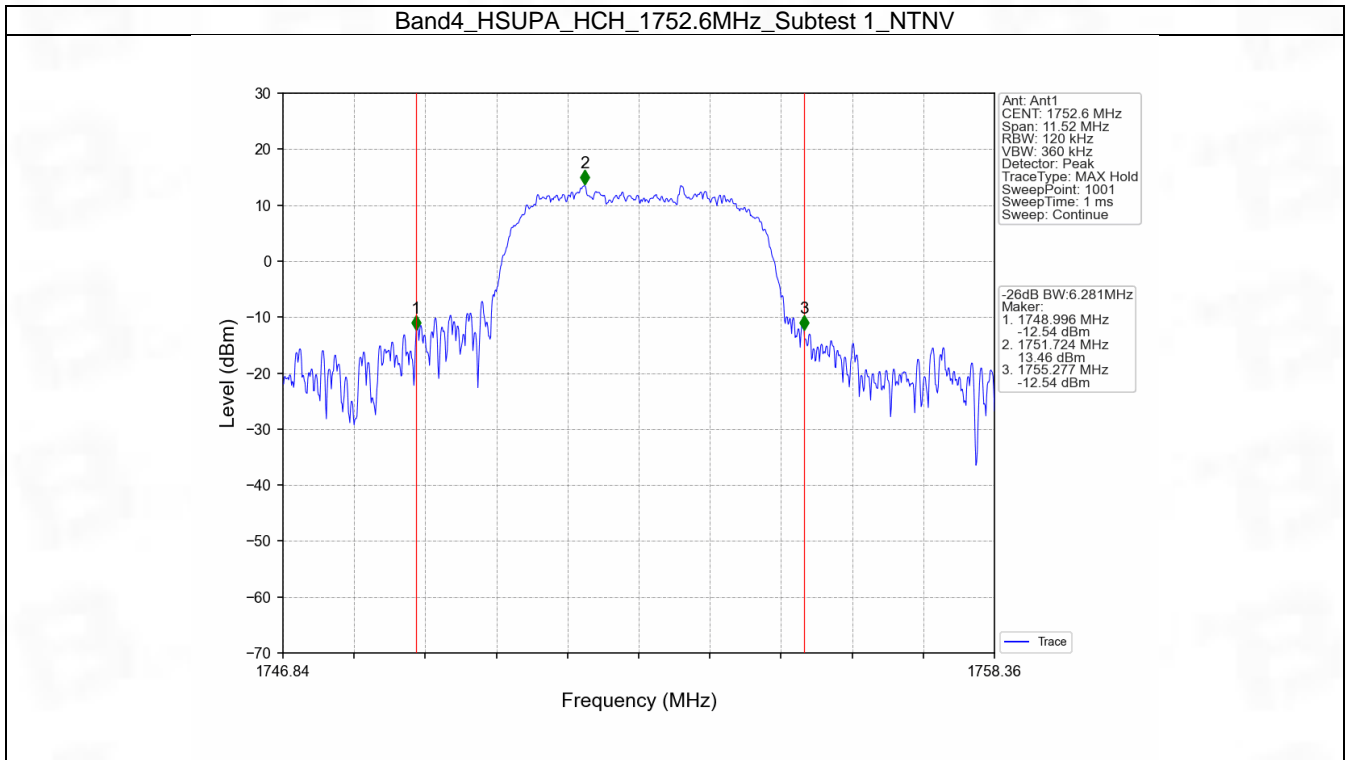


Band4_HSUPA_LCH_1712.4MHz_Subtest 1_NTNV



Band4_HSUPA_MCH_1732.6MHz_Subtest 1_NTNV





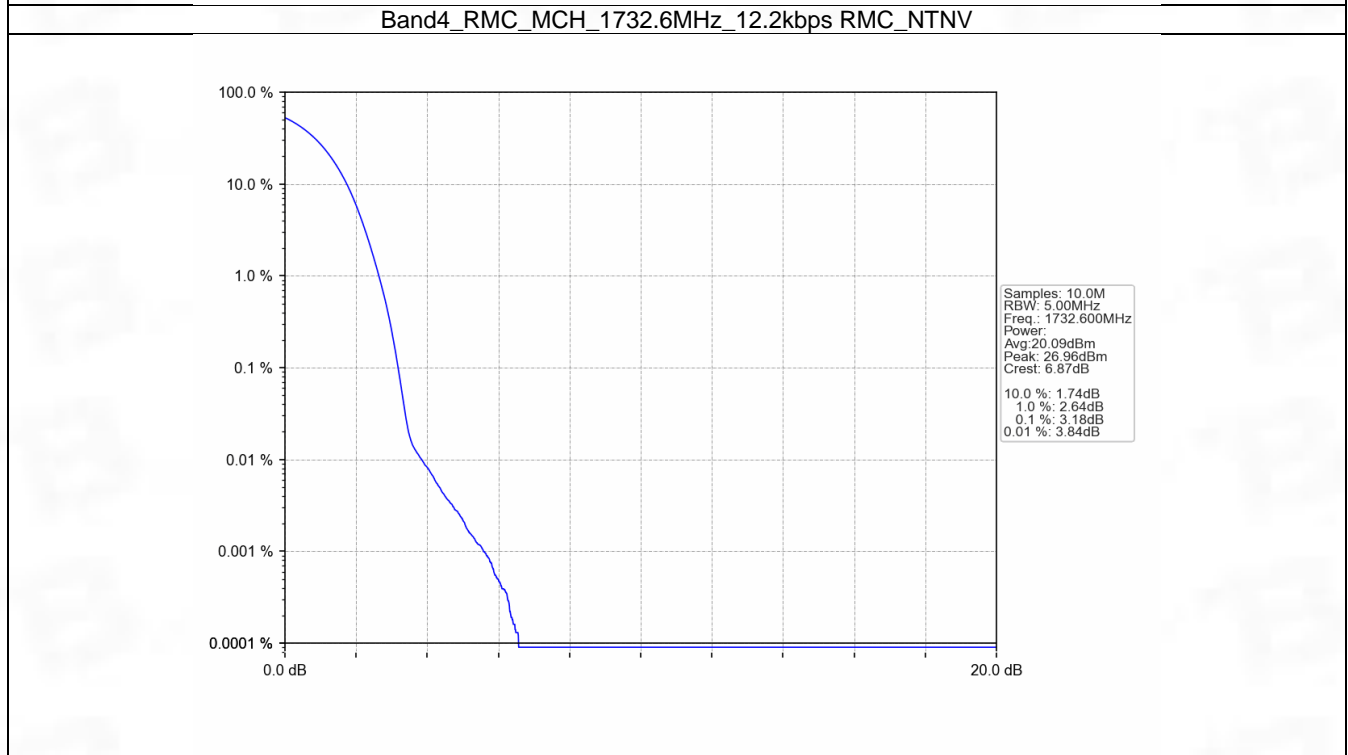
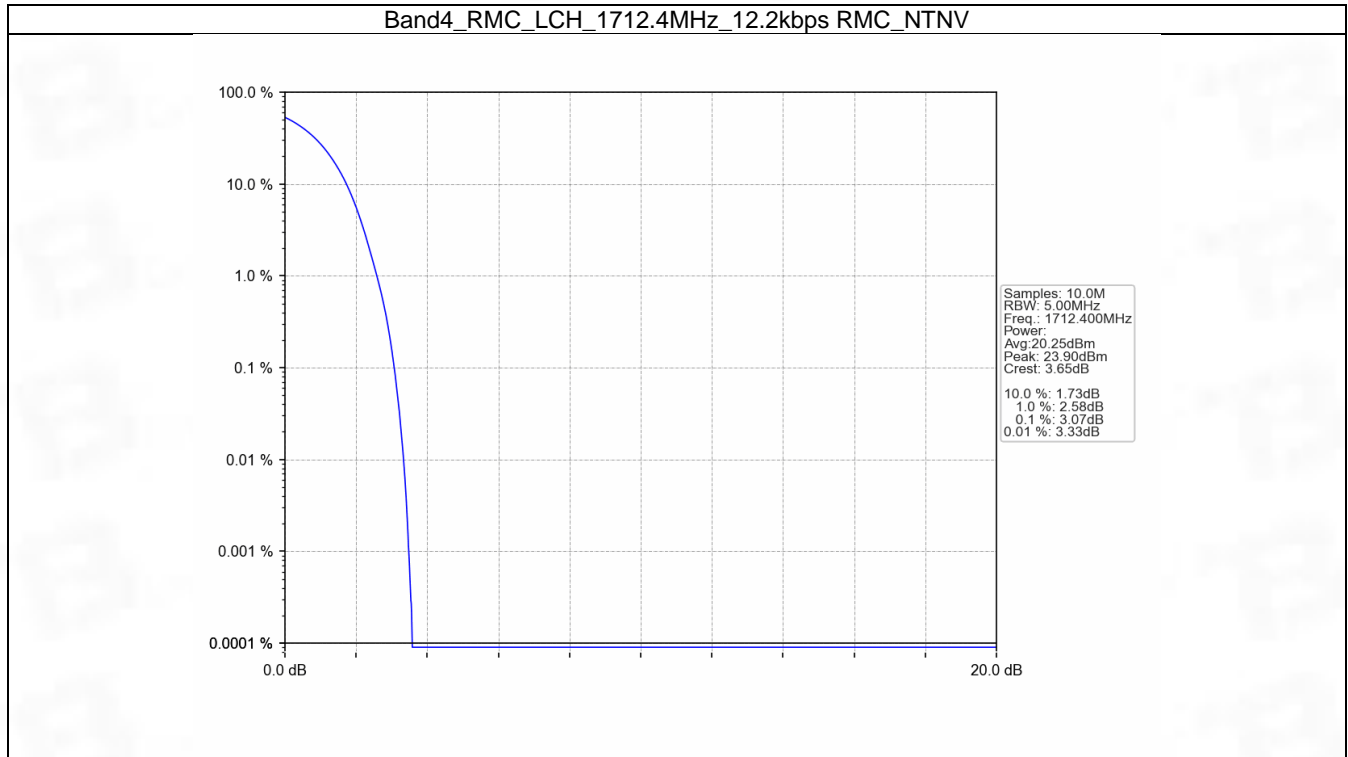
5. Peak-Average Ratio

5.1 Band4

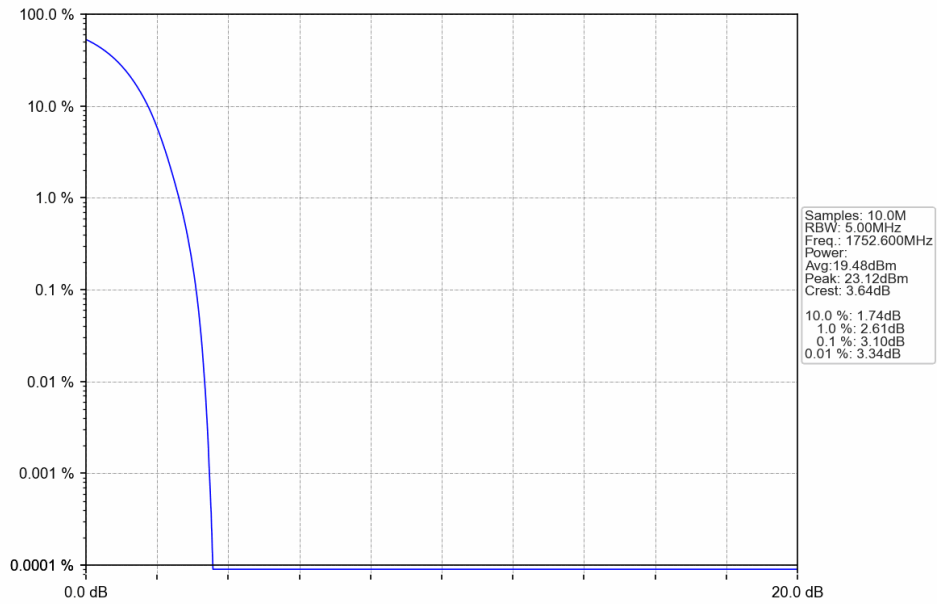
5.1.1 Test Result

Band: 4						
ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1712.4	3.07	<=13	Pass
			1732.6	3.18	<=13	Pass
			1752.6	3.10	<=13	Pass
	HSDPA	Subtest 1	1712.4	6.00	<=13	Pass
			1732.6	5.97	<=13	Pass
			1752.6	5.99	<=13	Pass
	HSUPA	Subtest 1	1712.4	5.92	<=13	Pass
			1732.6	5.95	<=13	Pass
			1752.6	6.03	<=13	Pass

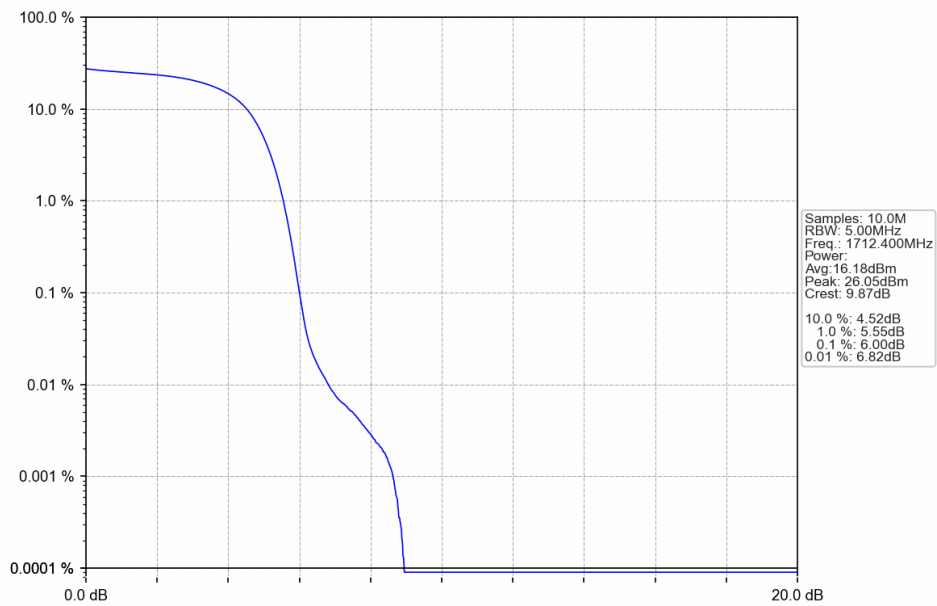
5.1.2 Test Graph



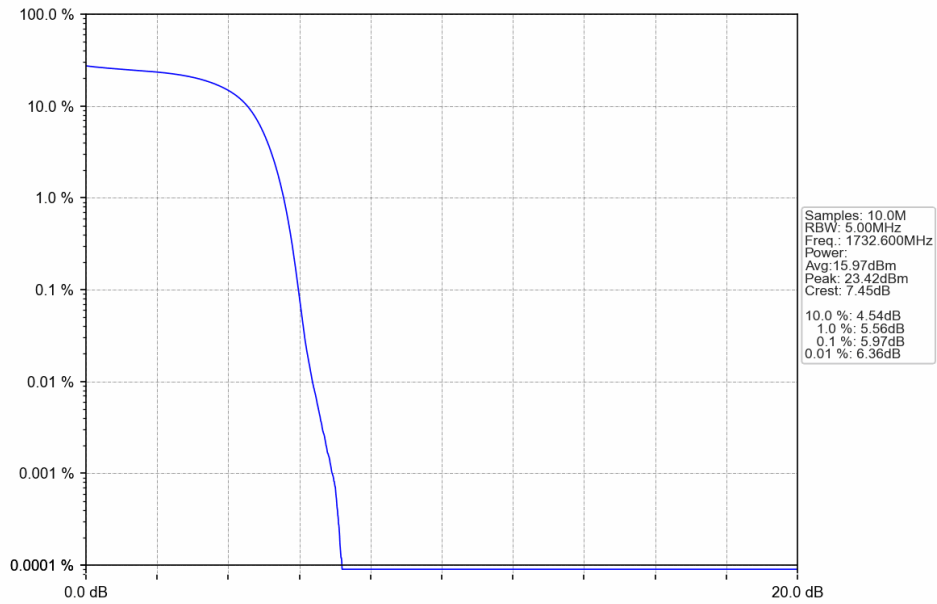
Band4_RMC_HCH_1752.6MHz_12.2kbps RMC_NTNV



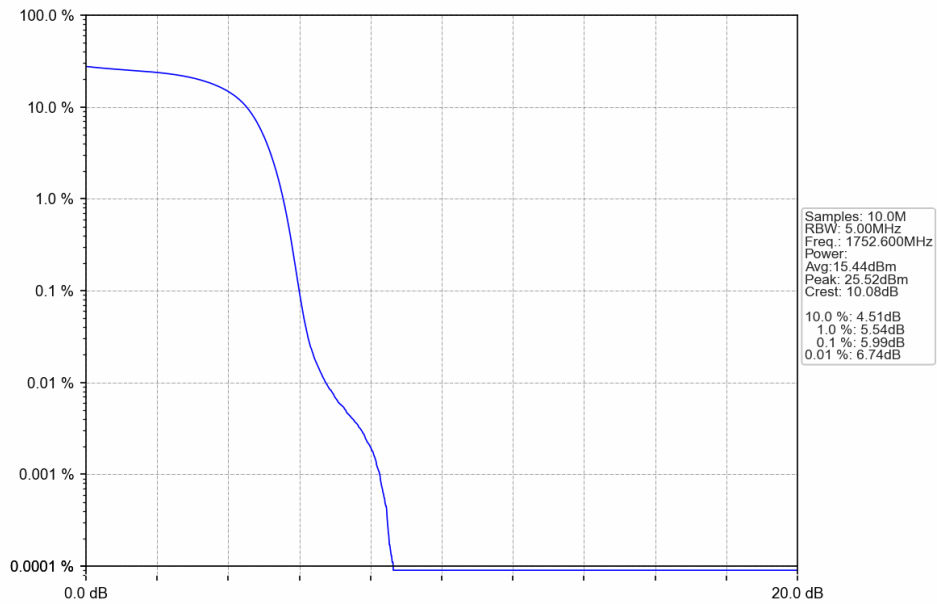
Band4_HSDPA_LCH_1712.4MHz_Subtest 1_NTNV



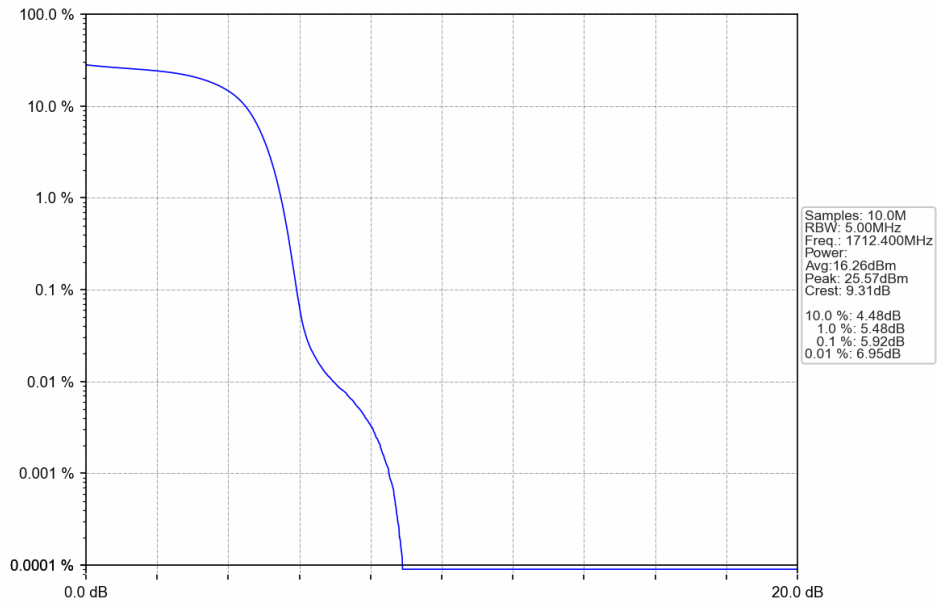
Band4_HSDPA_MCH_1732.6MHz_Subtest 1_NTNV



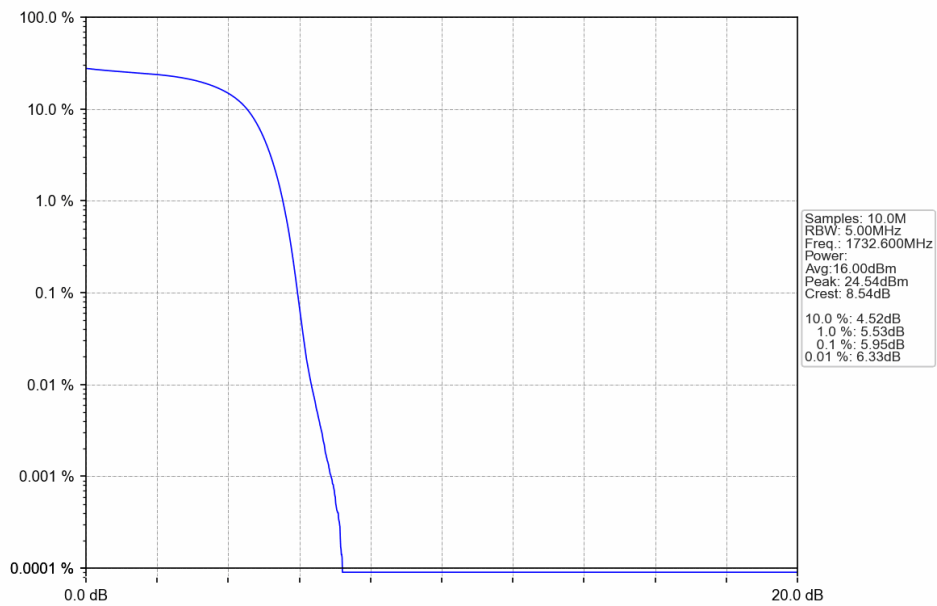
Band4_HSDPA_HCH_1752.6MHz_Subtest 1_NTNV

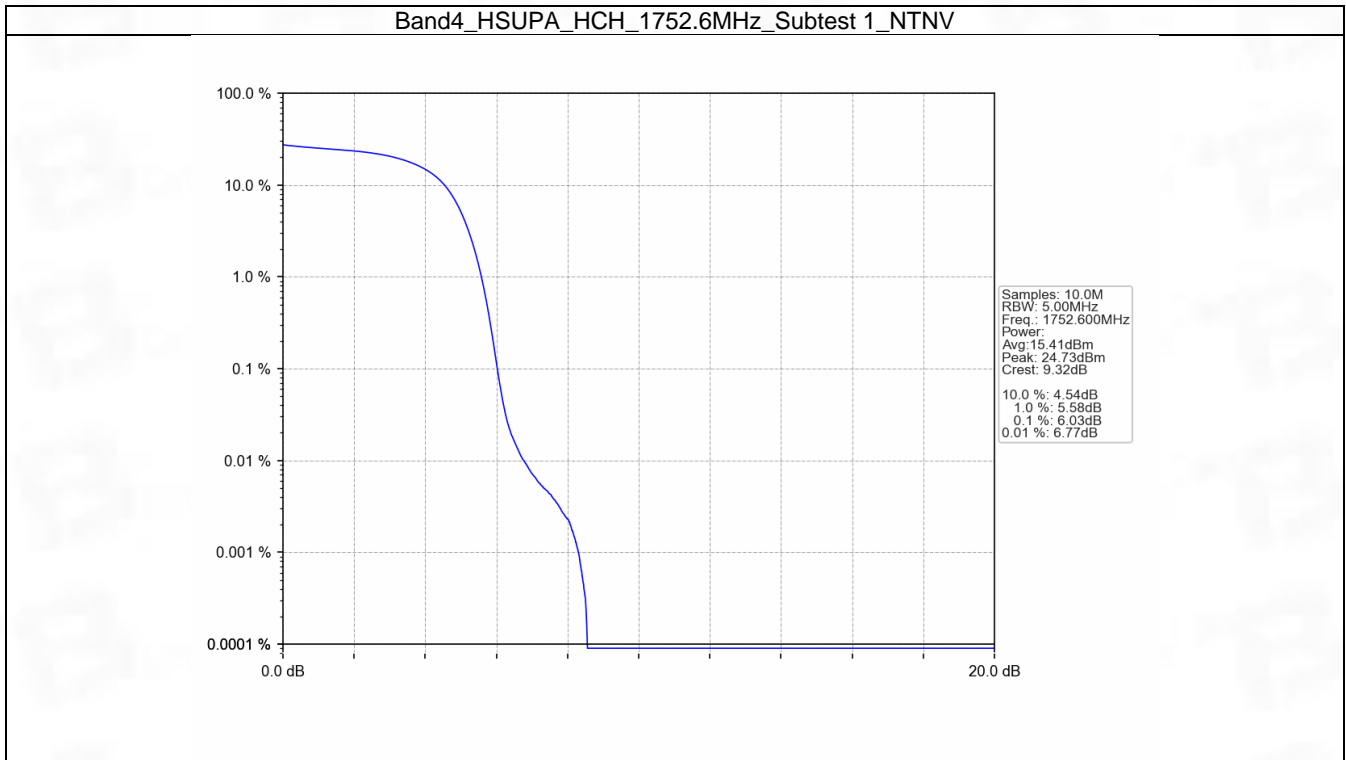


Band4_HSUPA_LCH_1712.4MHz_Subtest 1_NTNV



Band4_HSUPA_MCH_1732.6MHz_Subtest 1_NTNV





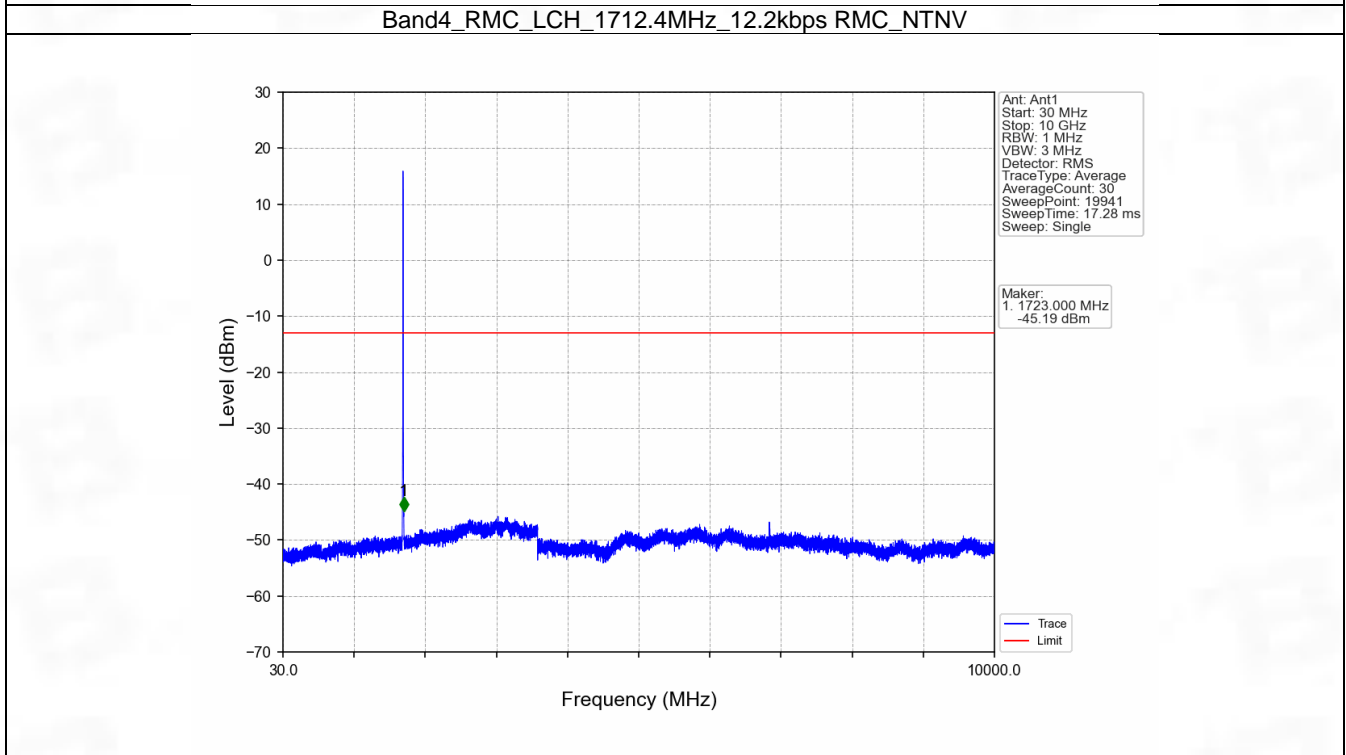
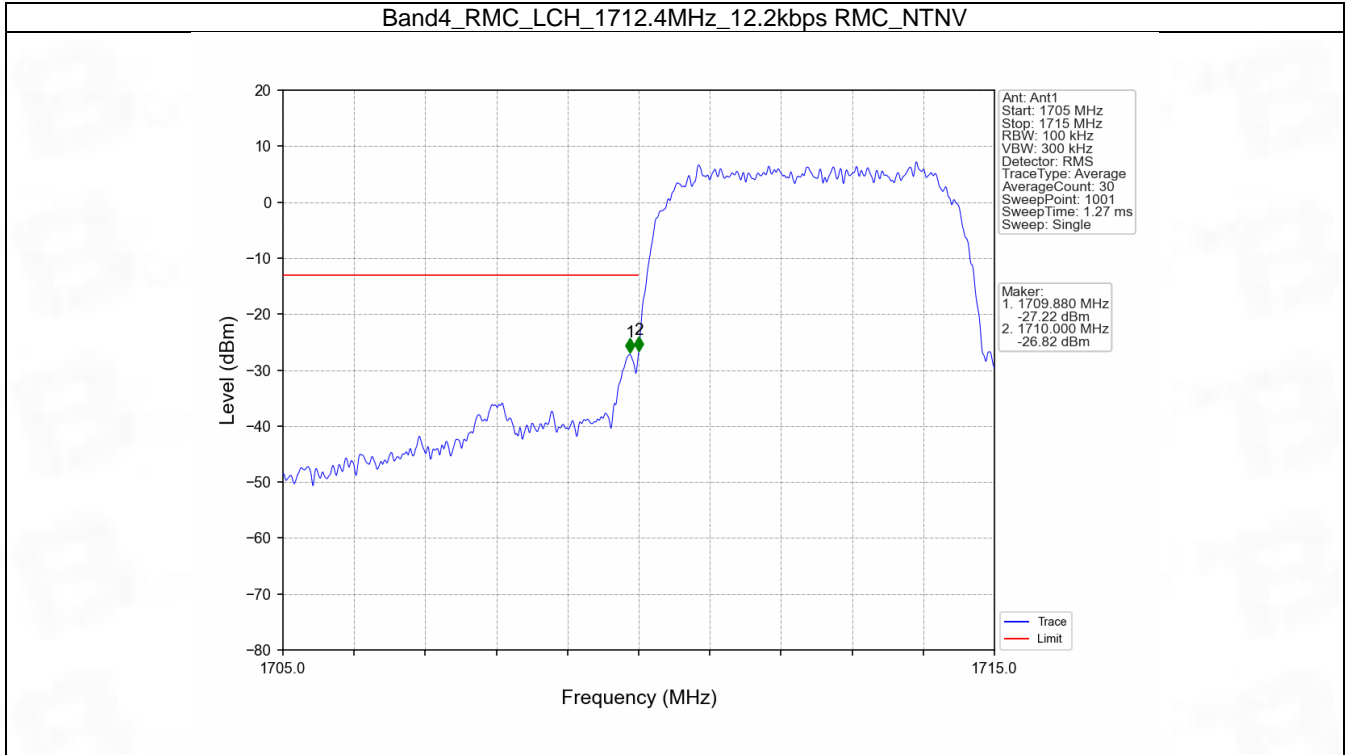
6. Spurious Emission

6.1 Band4

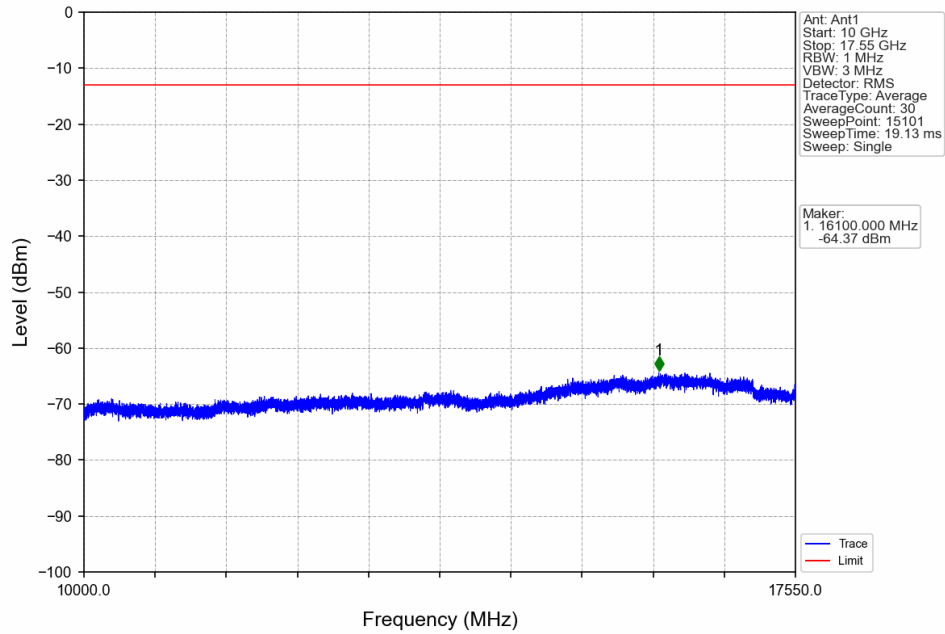
6.1.1 Test Result

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

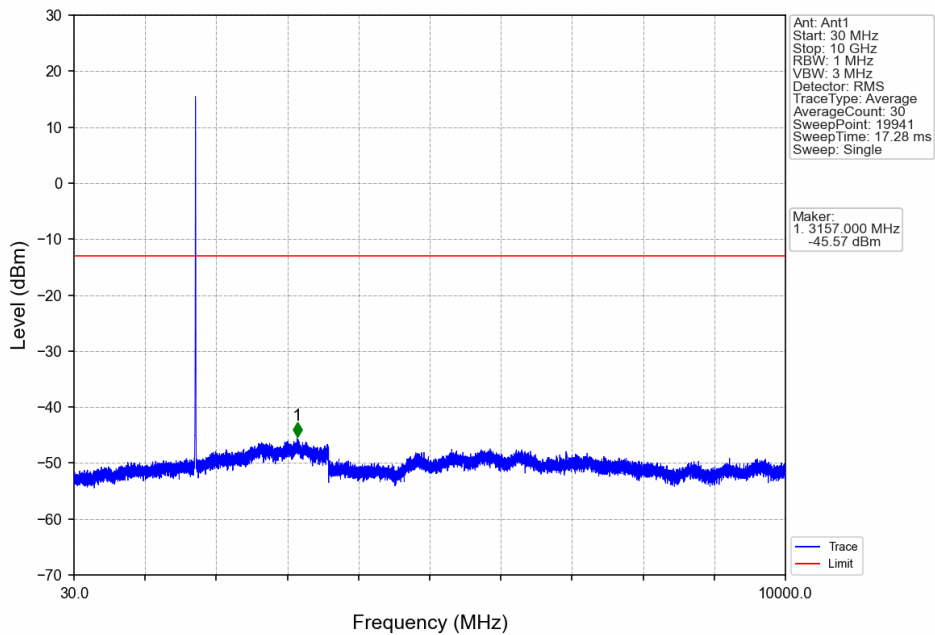
6.1.2 Test Graph



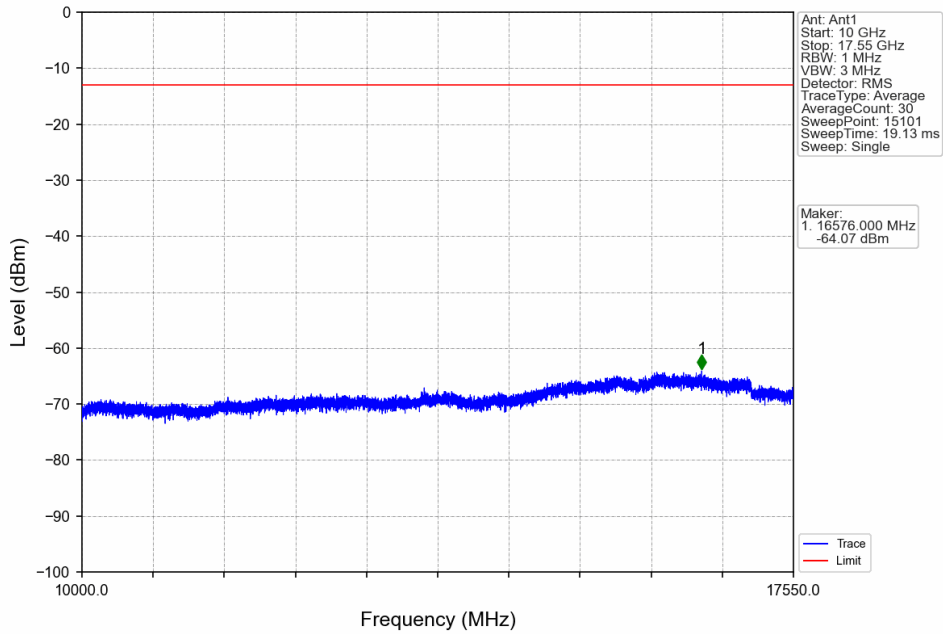
Band4_RMC_LCH_1712.4MHz_12.2kbps RMC_NTNV



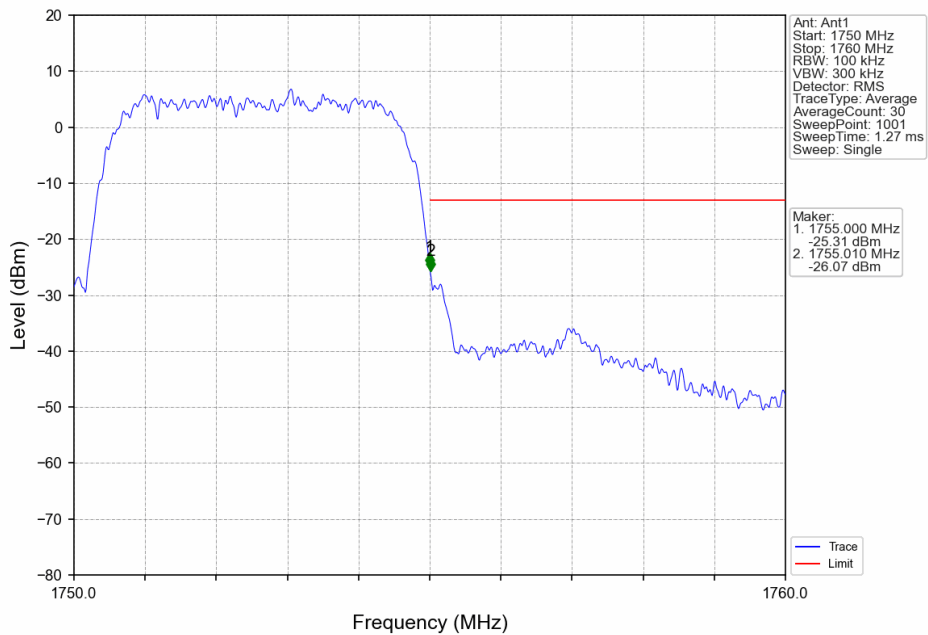
Band4_RMC_MCH_1732.6MHz_12.2kbps RMC_NTNV



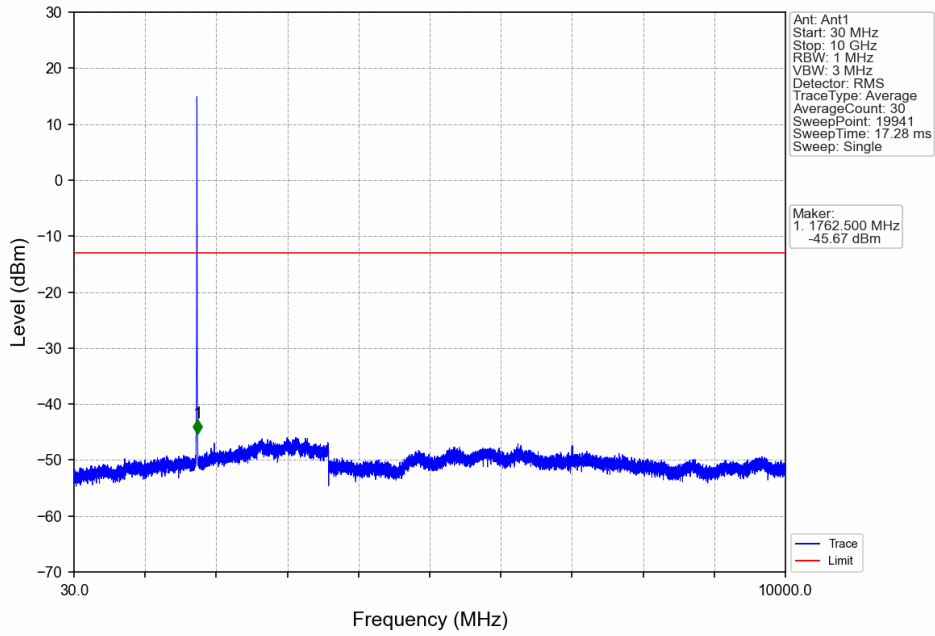
Band4_RMC_MCH_1732.6MHz_12.2kbps RMC_NTNV



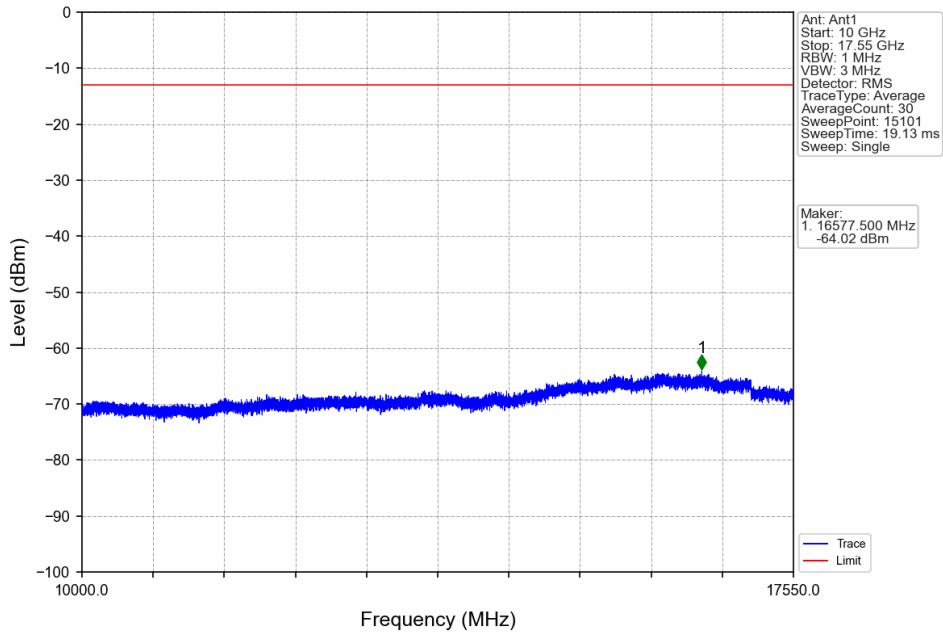
Band4_RMC_HCH_1752.6MHz_12.2kbps RMC_NTNV



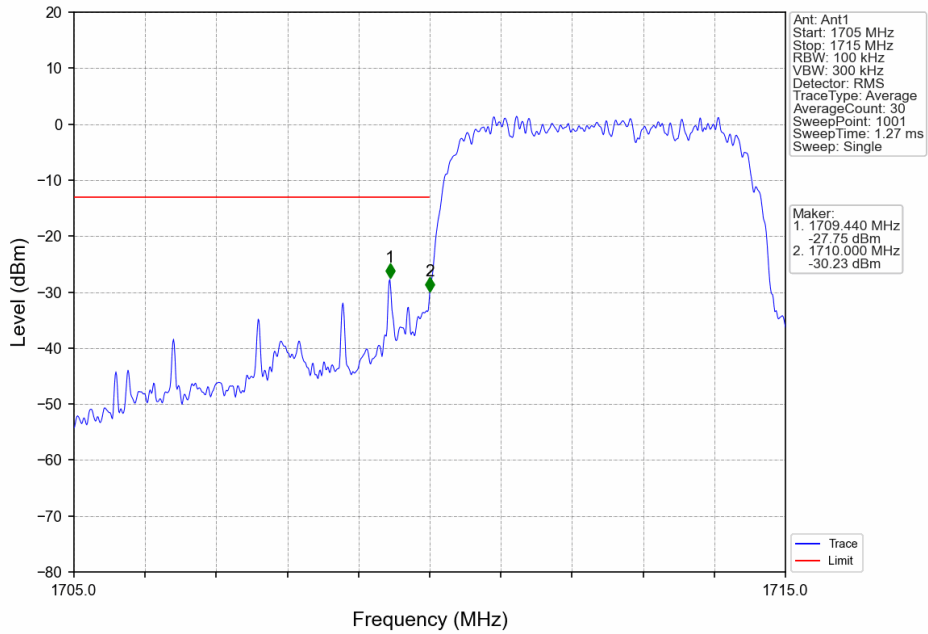
Band4_RMC_HCH_1752.6MHz_12.2kbps RMC_NTNV



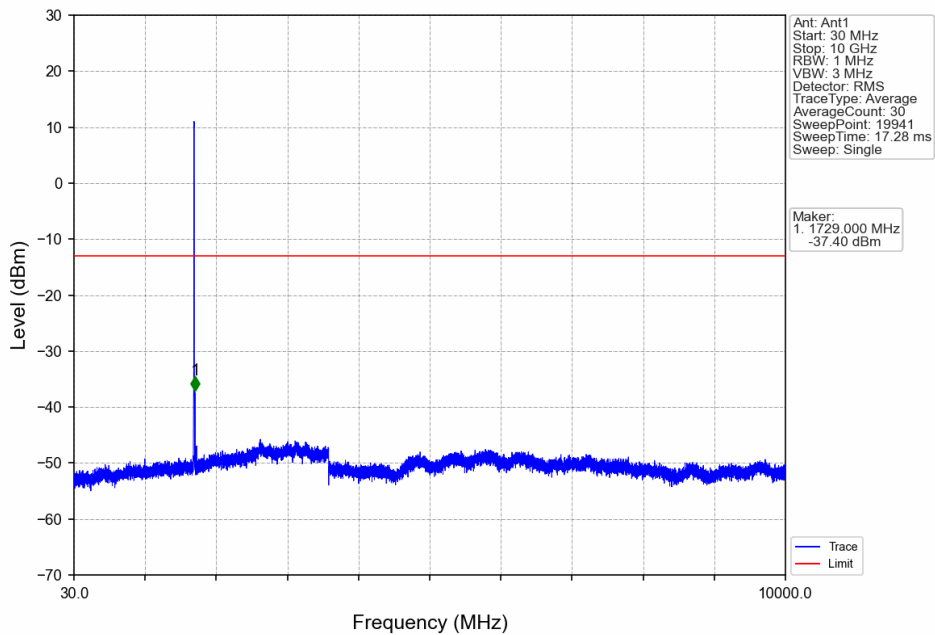
Band4_RMC_HCH_1752.6MHz_12.2kbps RMC_NTNV



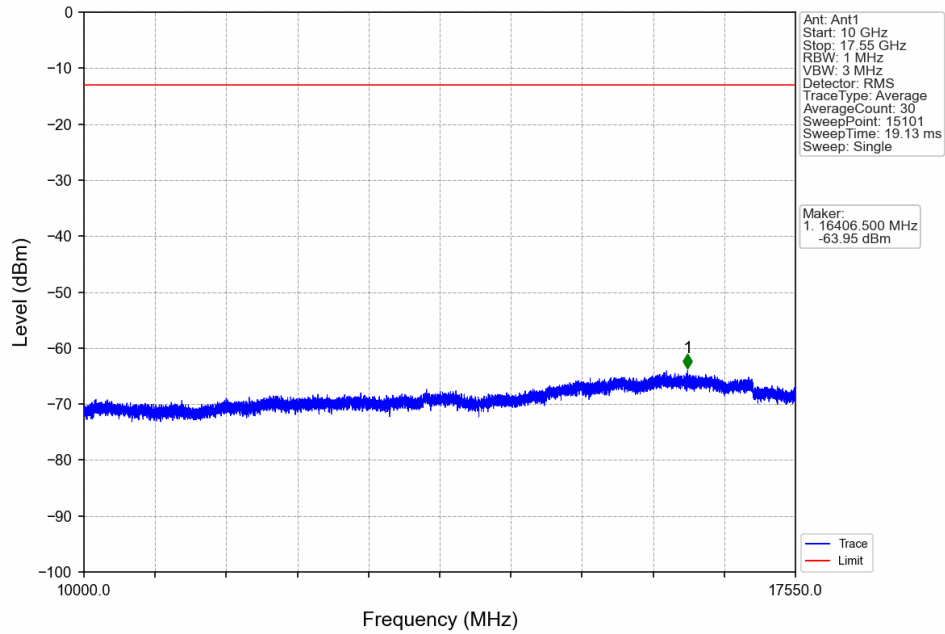
Band4_HSDPA_LCH_1712.4MHz_Subtest 1_NTNV



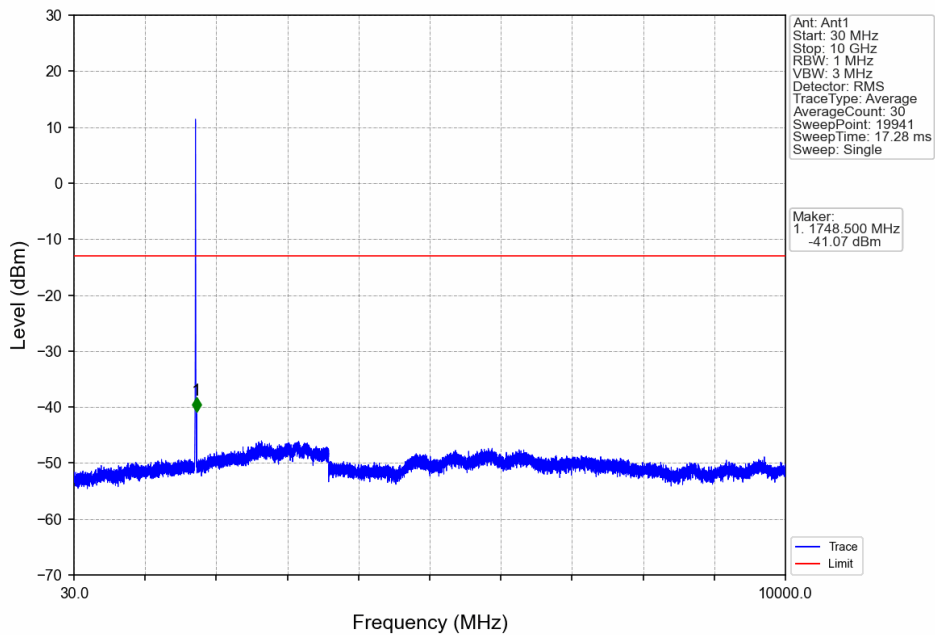
Band4_HSDPA_LCH_1712.4MHz_Subtest 1_NTNV



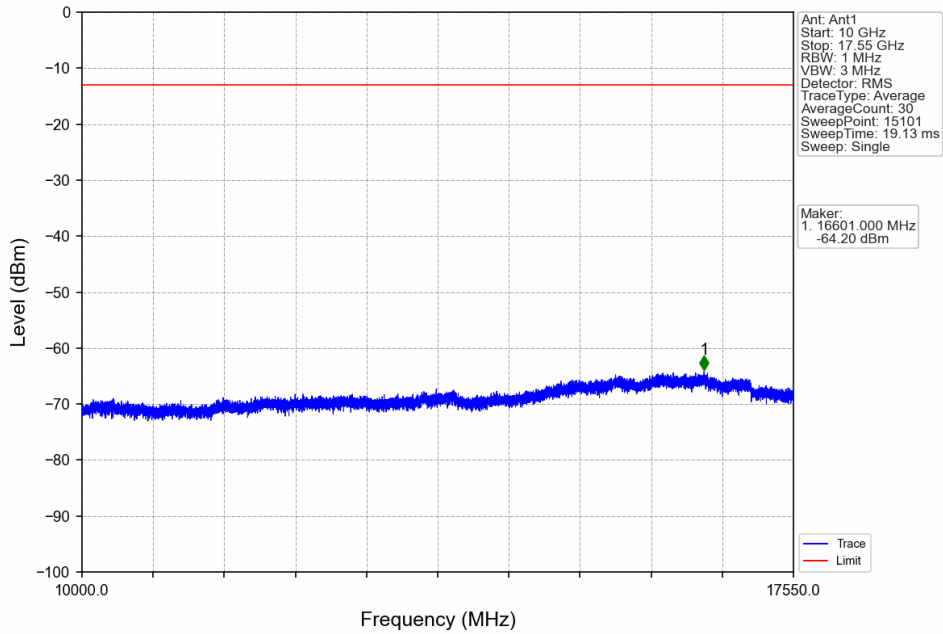
Band4_HSDPA_LCH_1712.4MHz_Subtest 1_NTNV



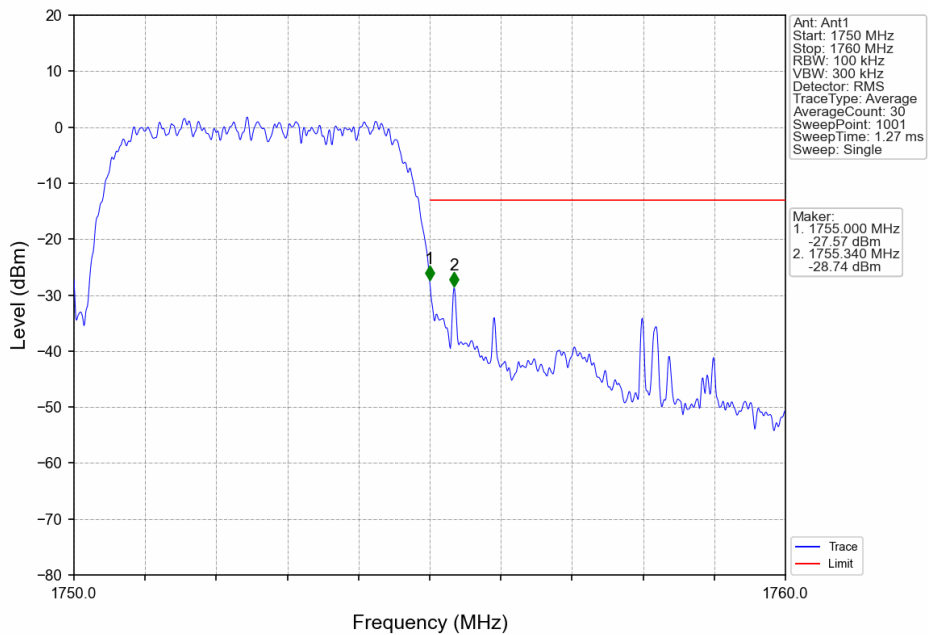
Band4_HSDPA_MCH_1732.6MHz_Subtest 1_NTNV



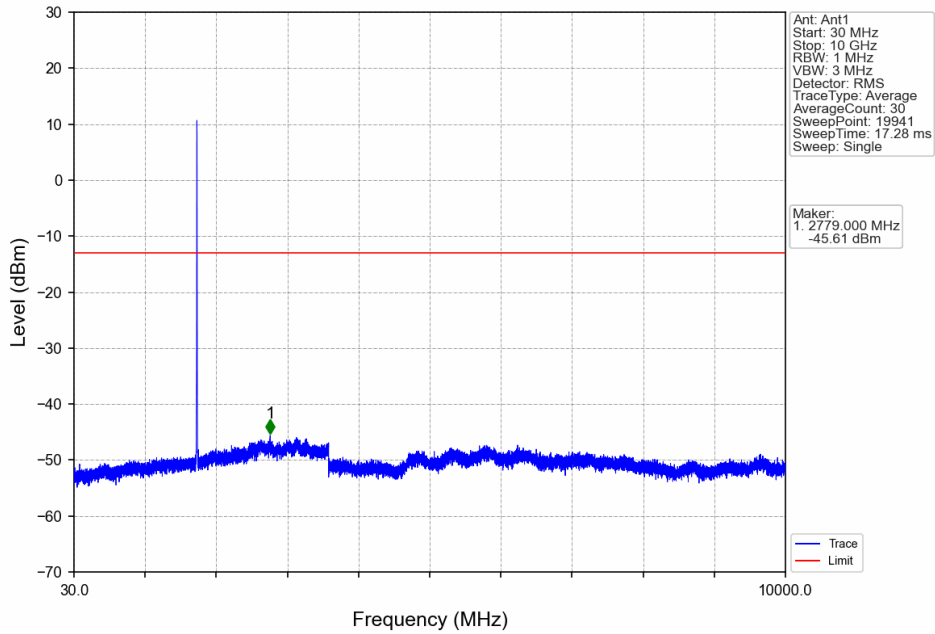
Band4_HSDPA_MCH_1732.6MHz_Subtest 1_NTNV



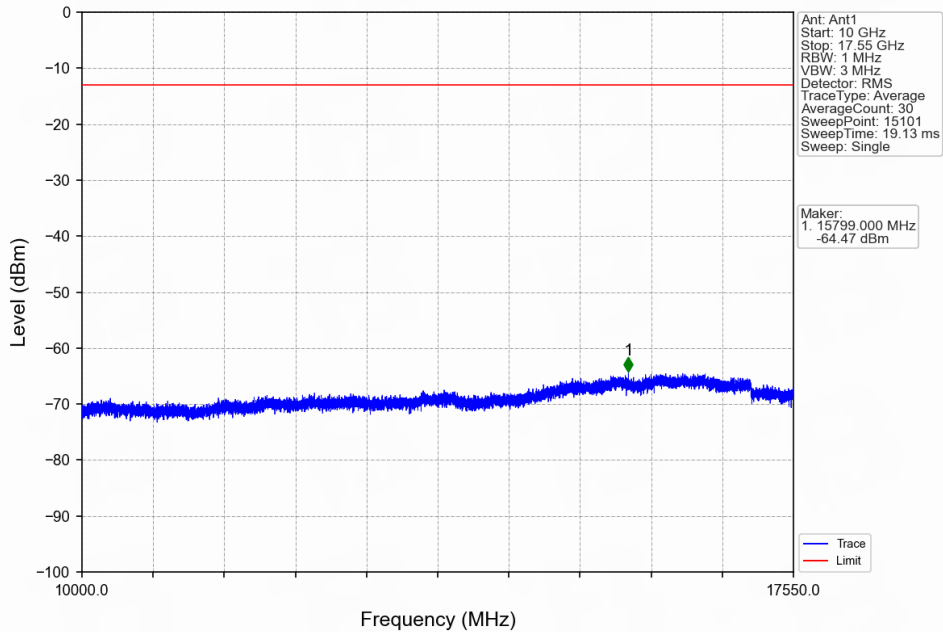
Band4_HSDPA_HCH_1752.6MHz_Subtest 1_NTNV



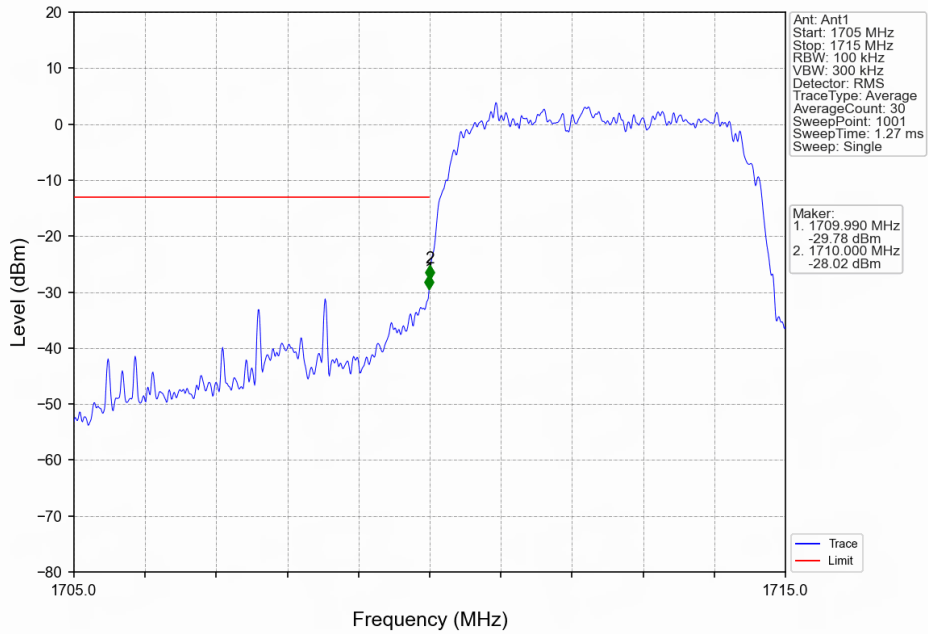
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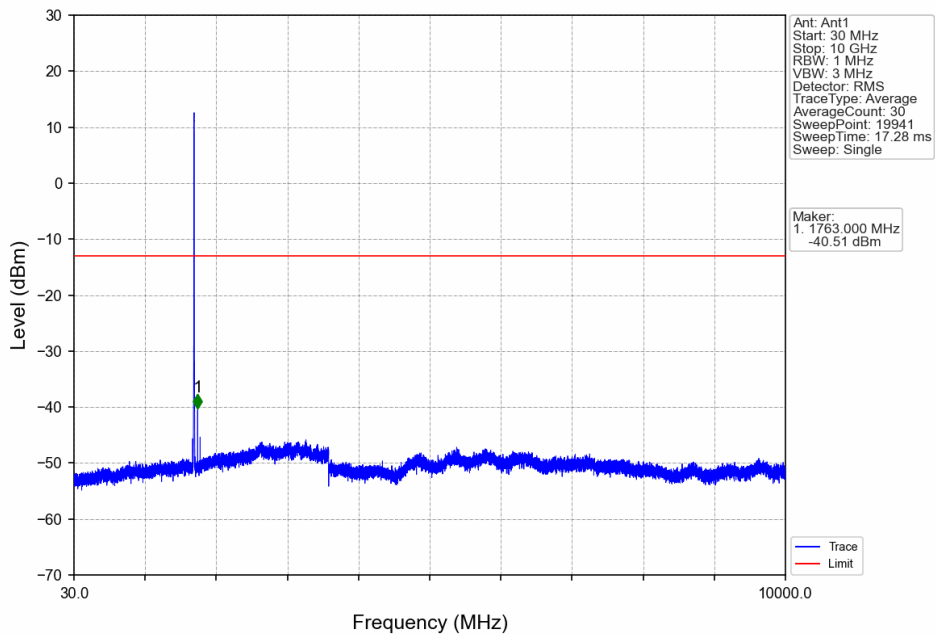
Band4_HSDPA_HCH_1752.6MHz_Subtest 1_NTNV



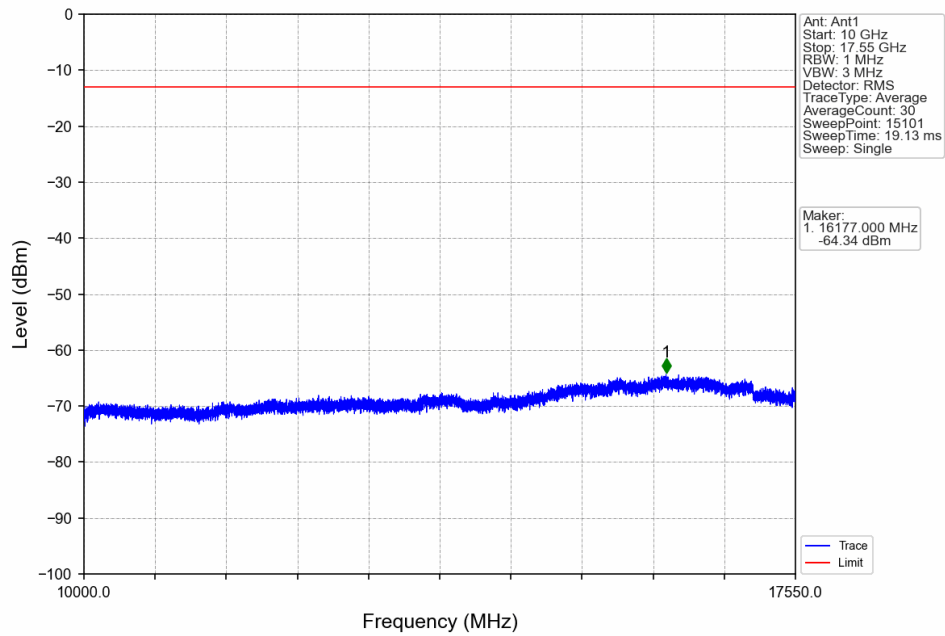
Band4_HSUPA_LCH_1712.4MHz_Subtest 1_NTNV



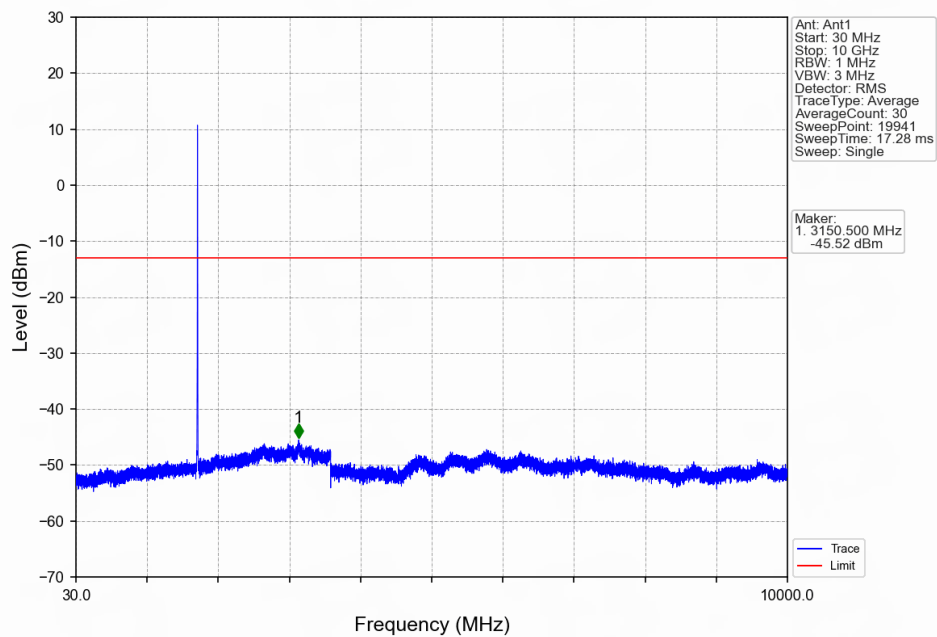
Band4_HSUPA_LCH_1712.4MHz_Subtest 1_NTNV



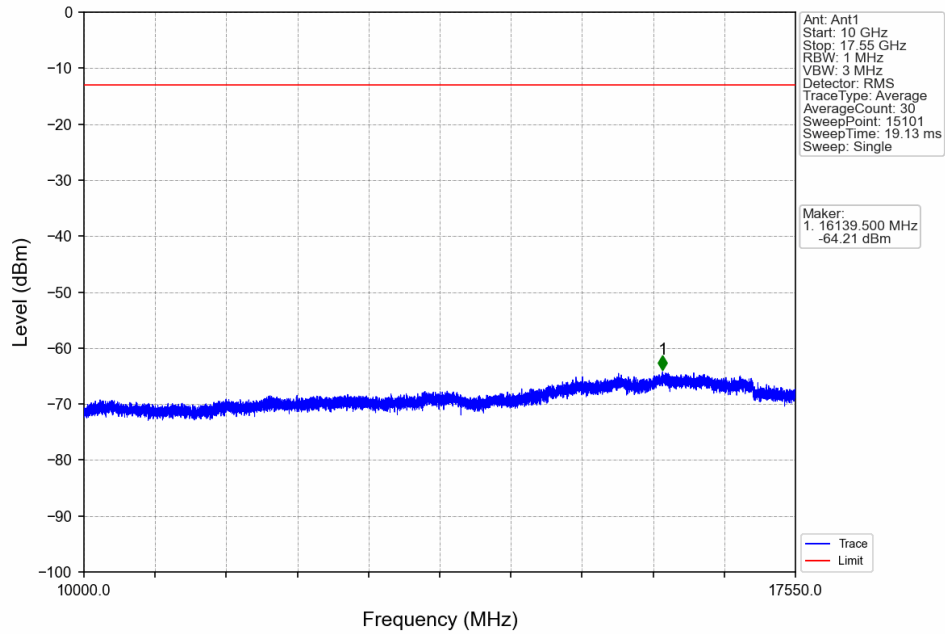
Band4_HSUPA_LCH_1712.4MHz_Subtest 1_NTNV



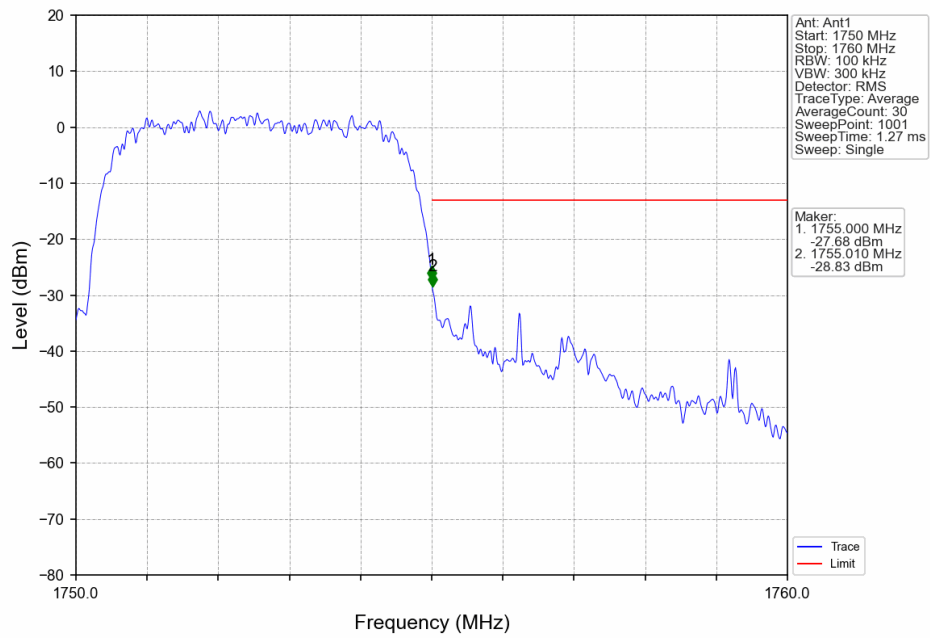
Band4_HSUPA_MCH_1732.6MHz_Subtest 1_NTNV



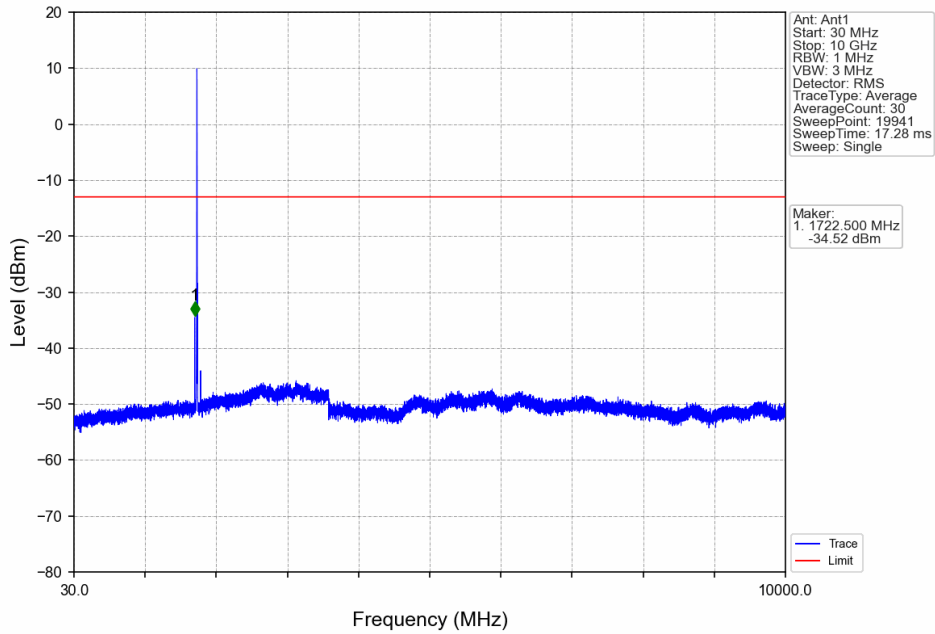
Band4_HSUPA_MCH_1732.6MHz_Subtest 1_NTNV



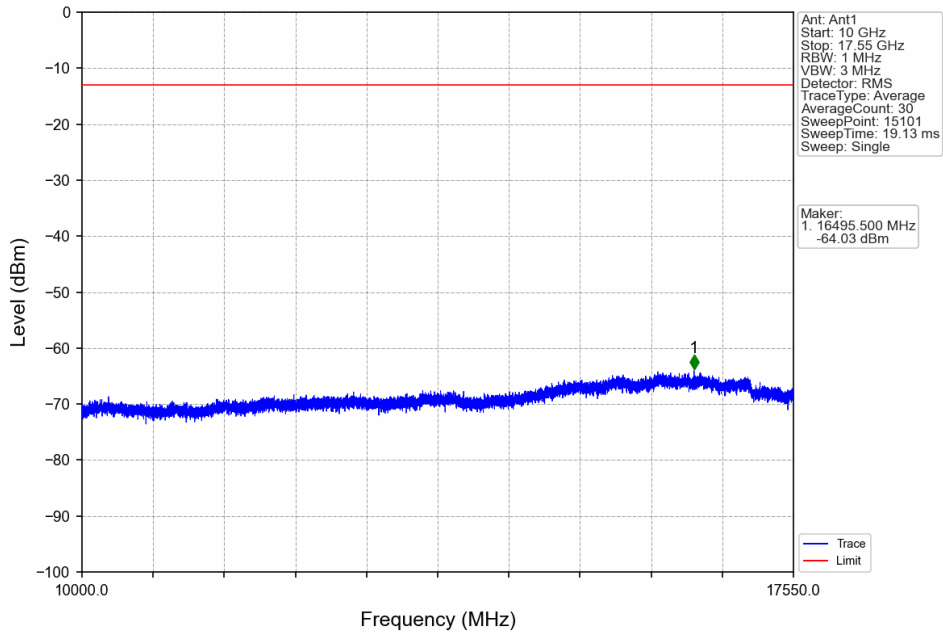
Band4_HSUPA_HCH_1752.6MHz_Subtest 1_NTNV



Band4_HSUPA_HCH_1752.6MHz_Subtest 1_NTNV



Band4_HSUPA_HCH_1752.6MHz_Subtest 1_NTNV





7. Form731

7.1 Form731_Power

7.1.1 Test Result

Band	BW	Lower Freq	High Freq	MAX Power (W)	Value	Hz/ppm	Emission Designator	Rule Parts	MAX Power (dBm)
4	3.84	1712.4	1752.6	0.1778	0.0120	ppm	4M27F9W	24E	22.50

7.2 Form731_EIRP

7.2.1 Test Result

Band	BW	Lower Freq	High Freq	MAX Power (W)	Value	Hz/ppm	Emission Designator	Rule Parts	MAX Power (dBm)
4	3.84	1712.4	1752.6	0.2009	0.0120	ppm	4M27F9W	24E	23.03