

1. Effective (Isotropic) Radiated Power Output Data

1.1 Test Result

1.1.1 Band4_EIRP

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	21.68	0.16	21.84	<=30	Pass			
			1732.6	21.72	0.16	21.88	<=30	Pass			
			1752.6	21.61	0.16	21.77	<=30	Pass			
	HSDPA		Subtest 1	1712.4	19.40	0.16	19.56	<=30	Pass		
			Subtest 2	1712.4	19.40	0.16	19.56	<=30	Pass		
			Subtest 3	1712.4	19.39	0.16	19.55	<=30	Pass		
			Subtest 4	1712.4	19.43	0.16	19.59	<=30	Pass		
			Subtest 1	1732.6	19.42	0.16	19.58	<=30	Pass		
			Subtest 2	1732.6	19.41	0.16	19.57	<=30	Pass		
			Subtest 3	1732.6	19.42	0.16	19.58	<=30	Pass		
			Subtest 4	1732.6	19.50	0.16	19.66	<=30	Pass		
			Subtest 1	1752.6	19.43	0.16	19.59	<=30	Pass		
			Subtest 2	1752.6	19.43	0.16	19.59	<=30	Pass		
			Subtest 3	1752.6	19.40	0.16	19.56	<=30	Pass		
			Subtest 4	1752.6	19.37	0.16	19.53	<=30	Pass		
			HSUPA		Subtest 1	1712.4	17.36	0.16	17.52	<=30	Pass
					Subtest 2	1712.4	16.76	0.16	16.92	<=30	Pass
					Subtest 3	1712.4	17.29	0.16	17.45	<=30	Pass
	Subtest 4	1712.4			17.37	0.16	17.53	<=30	Pass		
	Subtest 5	1712.4			17.18	0.16	17.34	<=30	Pass		
	Subtest 1	1732.6			17.29	0.16	17.45	<=30	Pass		
	Subtest 2	1732.6			17.37	0.16	17.53	<=30	Pass		
	Subtest 3	1732.6			17.40	0.16	17.56	<=30	Pass		
	Subtest 4	1732.6			16.83	0.16	16.99	<=30	Pass		
	Subtest 5	1732.6			17.03	0.16	17.19	<=30	Pass		
	Subtest 1	1752.6			17.28	0.16	17.44	<=30	Pass		
	Subtest 2	1752.6			16.88	0.16	17.04	<=30	Pass		
	Subtest 3	1752.6			17.15	0.16	17.31	<=30	Pass		
	Subtest 4	1752.6			16.81	0.16	16.97	<=30	Pass		
	Subtest 5	1752.6			17.09	0.16	17.25	<=30	Pass		

Note1: EIRP=Conducted Power+Antenna Gain

2. Frequency Stability

2.1 Test Result

2.1.1 Band4

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	-5.636	-0.0033	-2.5 to 2.5	Pass
			3.85	-8.118	-0.0047	-2.5 to 2.5	Pass
			4.43	-14.312	-0.0084	-2.5 to 2.5	Pass
		-30	3.85	-13.232	-0.0077	-2.5 to 2.5	Pass
		-20	3.85	-14.777	-0.0086	-2.5 to 2.5	Pass

	1732.6	-10	3.85	-10.657	-0.0062	-2.5 to 2.5	Pass		
		0	3.85	-12.531	-0.0073	-2.5 to 2.5	Pass		
		10	3.85	-9.999	-0.0058	-2.5 to 2.5	Pass		
		30	3.85	-11.451	-0.0067	-2.5 to 2.5	Pass		
		40	3.85	-14.033	-0.0082	-2.5 to 2.5	Pass		
		50	3.85	-12.996	-0.0076	-2.5 to 2.5	Pass		
		20	3.27	-12.610	-0.0073	-2.5 to 2.5	Pass		
			3.85	-14.155	-0.0082	-2.5 to 2.5	Pass		
			4.43	-13.583	-0.0078	-2.5 to 2.5	Pass		
		-30	3.85	-8.819	-0.0051	-2.5 to 2.5	Pass		
		-20	3.85	-9.463	-0.0055	-2.5 to 2.5	Pass		
		-10	3.85	-10.393	-0.0060	-2.5 to 2.5	Pass		
		0	3.85	-10.178	-0.0059	-2.5 to 2.5	Pass		
		10	3.85	-7.231	-0.0042	-2.5 to 2.5	Pass		
		30	3.85	-6.645	-0.0038	-2.5 to 2.5	Pass		
	40	3.85	-7.424	-0.0043	-2.5 to 2.5	Pass			
	50	3.85	-12.431	-0.0072	-2.5 to 2.5	Pass			
	1752.6	20	3.27	-7.467	-0.0043	-2.5 to 2.5	Pass		
			3.85	-9.084	-0.0052	-2.5 to 2.5	Pass		
			4.43	-5.550	-0.0032	-2.5 to 2.5	Pass		
		-30	3.85	-10.672	-0.0061	-2.5 to 2.5	Pass		
		-20	3.85	-7.274	-0.0042	-2.5 to 2.5	Pass		
		-10	3.85	-9.620	-0.0055	-2.5 to 2.5	Pass		
		0	3.85	-10.293	-0.0059	-2.5 to 2.5	Pass		
		10	3.85	-7.768	-0.0044	-2.5 to 2.5	Pass		
		30	3.85	-8.318	-0.0047	-2.5 to 2.5	Pass		
		40	3.85	-11.837	-0.0068	-2.5 to 2.5	Pass		
		50	3.85	-11.158	-0.0064	-2.5 to 2.5	Pass		
		HSDPA	1712.4	20	3.27	-15.764	-0.0092	-2.5 to 2.5	Pass
					3.85	-11.222	-0.0066	-2.5 to 2.5	Pass
4.43					-11.694	-0.0068	-2.5 to 2.5	Pass	
-30				3.85	-10.092	-0.0059	-2.5 to 2.5	Pass	
-20	3.85			-10.664	-0.0062	-2.5 to 2.5	Pass		
-10	3.85			-14.641	-0.0085	-2.5 to 2.5	Pass		
0	3.85			-12.503	-0.0073	-2.5 to 2.5	Pass		
10	3.85			-15.728	-0.0092	-2.5 to 2.5	Pass		
30	3.85			-11.594	-0.0068	-2.5 to 2.5	Pass		
40	3.85			-12.982	-0.0076	-2.5 to 2.5	Pass		
50	3.85			-13.955	-0.0081	-2.5 to 2.5	Pass		
1732.6	20			3.27	-18.196	-0.0105	-2.5 to 2.5	Pass	
				3.85	-16.587	-0.0096	-2.5 to 2.5	Pass	
				4.43	-19.326	-0.0112	-2.5 to 2.5	Pass	
	-30			3.85	-15.900	-0.0092	-2.5 to 2.5	Pass	
	-20	3.85	-16.551	-0.0096	-2.5 to 2.5	Pass			
	-10	3.85	-18.904	-0.0109	-2.5 to 2.5	Pass			
	0	3.85	-13.998	-0.0081	-2.5 to 2.5	Pass			
	10	3.85	-15.714	-0.0091	-2.5 to 2.5	Pass			
	30	3.85	-16.222	-0.0094	-2.5 to 2.5	Pass			
	40	3.85	-19.791	-0.0114	-2.5 to 2.5	Pass			
50	3.85	-15.178	-0.0088	-2.5 to 2.5	Pass				
1752.6	20	3.27	-14.749	-0.0084	-2.5 to 2.5	Pass			
		3.85	-15.006	-0.0086	-2.5 to 2.5	Pass			
		4.43	-11.323	-0.0065	-2.5 to 2.5	Pass			
	-30	3.85	-10.443	-0.0060	-2.5 to 2.5	Pass			
	-20	3.85	-11.659	-0.0067	-2.5 to 2.5	Pass			
	-10	3.85	-9.212	-0.0053	-2.5 to 2.5	Pass			
	0	3.85	-10.057	-0.0057	-2.5 to 2.5	Pass			
	10	3.85	-13.046	-0.0074	-2.5 to 2.5	Pass			
30	3.85	-7.689	-0.0044	-2.5 to 2.5	Pass				

		40	3.85	-8.798	-0.0050	-2.5 to 2.5	Pass
		50	3.85	-10.228	-0.0058	-2.5 to 2.5	Pass
HSUPA	1712.4	20	3.27	-11.945	-0.0070	-2.5 to 2.5	Pass
			3.85	-14.284	-0.0083	-2.5 to 2.5	Pass
		4.43	-16.637	-0.0097	-2.5 to 2.5	Pass	
		-30	3.85	-11.323	-0.0066	-2.5 to 2.5	Pass
		-20	3.85	-14.026	-0.0082	-2.5 to 2.5	Pass
		-10	3.85	-15.006	-0.0088	-2.5 to 2.5	Pass
		0	3.85	-13.046	-0.0076	-2.5 to 2.5	Pass
		10	3.85	-11.065	-0.0065	-2.5 to 2.5	Pass
		30	3.85	-14.033	-0.0082	-2.5 to 2.5	Pass
		40	3.85	-12.674	-0.0074	-2.5 to 2.5	Pass
	50	3.85	-12.059	-0.0070	-2.5 to 2.5	Pass	
	1732.6	20	3.27	-12.252	-0.0071	-2.5 to 2.5	Pass
			3.85	-2.704	-0.0016	-2.5 to 2.5	Pass
		4.43	-9.778	-0.0056	-2.5 to 2.5	Pass	
		-30	3.85	-6.917	-0.0040	-2.5 to 2.5	Pass
		-20	3.85	-11.365	-0.0066	-2.5 to 2.5	Pass
		-10	3.85	-9.935	-0.0057	-2.5 to 2.5	Pass
		0	3.85	-16.916	-0.0098	-2.5 to 2.5	Pass
		10	3.85	-13.697	-0.0079	-2.5 to 2.5	Pass
		30	3.85	-15.821	-0.0091	-2.5 to 2.5	Pass
		40	3.85	-12.689	-0.0073	-2.5 to 2.5	Pass
	50	3.85	-4.377	-0.0025	-2.5 to 2.5	Pass	
	1752.6	20	3.27	-8.197	-0.0047	-2.5 to 2.5	Pass
			3.85	-5.994	-0.0034	-2.5 to 2.5	Pass
		4.43	-1.194	-0.0007	-2.5 to 2.5	Pass	
		-30	3.85	-5.472	-0.0031	-2.5 to 2.5	Pass
		-20	3.85	-4.163	-0.0024	-2.5 to 2.5	Pass
		-10	3.85	-3.912	-0.0022	-2.5 to 2.5	Pass
		0	3.85	-3.018	-0.0017	-2.5 to 2.5	Pass
		10	3.85	-3.076	-0.0018	-2.5 to 2.5	Pass
30		3.85	-4.392	-0.0025	-2.5 to 2.5	Pass	
40		3.85	-5.407	-0.0031	-2.5 to 2.5	Pass	
50	3.85	-6.087	-0.0035	-2.5 to 2.5	Pass		

3. Modulation Characteristics

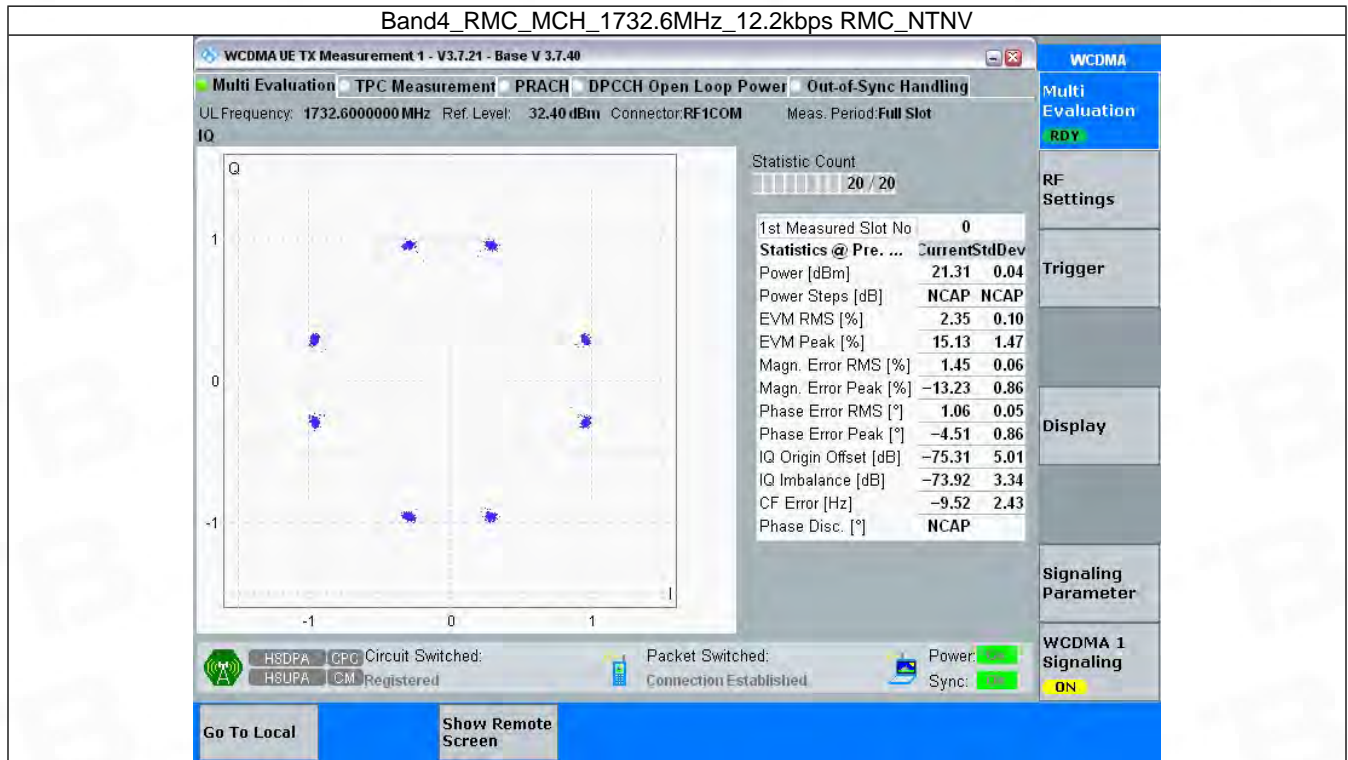
3.1 Test Result

3.1.1 Band4

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

3.2 Test Graph

3.2.1 Band4



Band4_HSUPA_MCH_1732.6MHz_Subtest 1_NTV

WCDMA UE TX Measurement 1 - V3.7.21 - Base V 3.7.40

Multi Evaluation TPC Measurement PRACH DPCCH Open Loop Power Out-of-Sync Handling

UL Frequency: 1732.600000 MHz Ref. Level: 34.00 dBm Connector: RF1COM Meas. Period: Full Slot

IQ

Statistic Count
20 / 20

Statistics @ Pre. ...		Current	StdDev
Power [dBm]	19.39	2.56	
Power Steps [dB]	NCAP	NCAP	
EVM RMS [%]	2.11	5.08	
EVM Peak [%]	7.69	42.52	
Magn. Error RMS [%]	1.27	5.37	
Magn. Error Peak [%]	-4.01	43.42	
Phase Error RMS [°]	1.37	0.32	
Phase Error Peak [°]	-6.11	24.76	
IQ Origin Offset [dB]	-71.93	8.58	
IQ Imbalance [dB]	-71.48	6.30	
CF Error [Hz]	-16.99	5.04	
Phase Disc. [°]	NCAP		

1st Measured Slot No 0

HSDPA+ CPC Circuit Switched
 HSUPA CM Registered

Packet Switched
 Connection Established

Power:
 Sync:

WCDMA

Multi Evaluation

RDY

RF Settings

Trigger

Display

Signaling Parameter

WCDMA 1 Signaling

ON

4. 99% & 26dB Bandwidth

4.1 Test Result

4.1.1 Band4_OBW

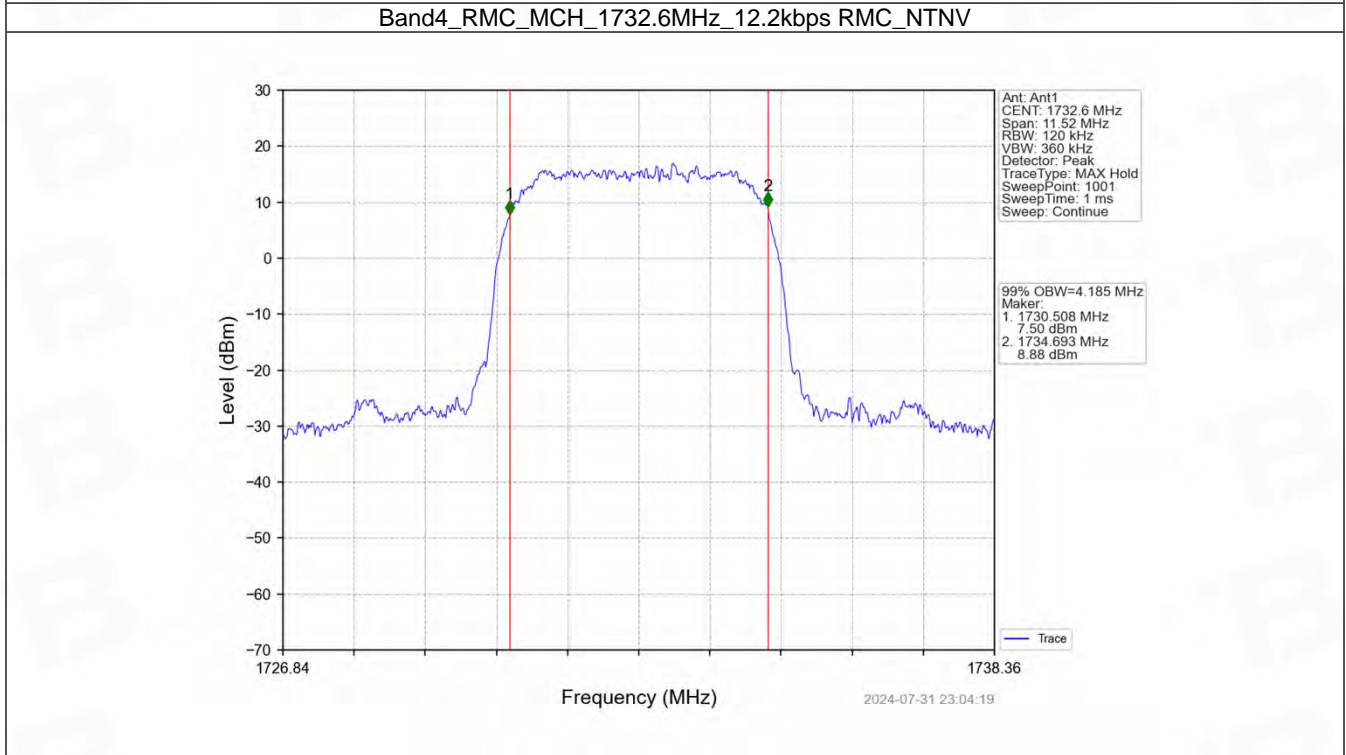
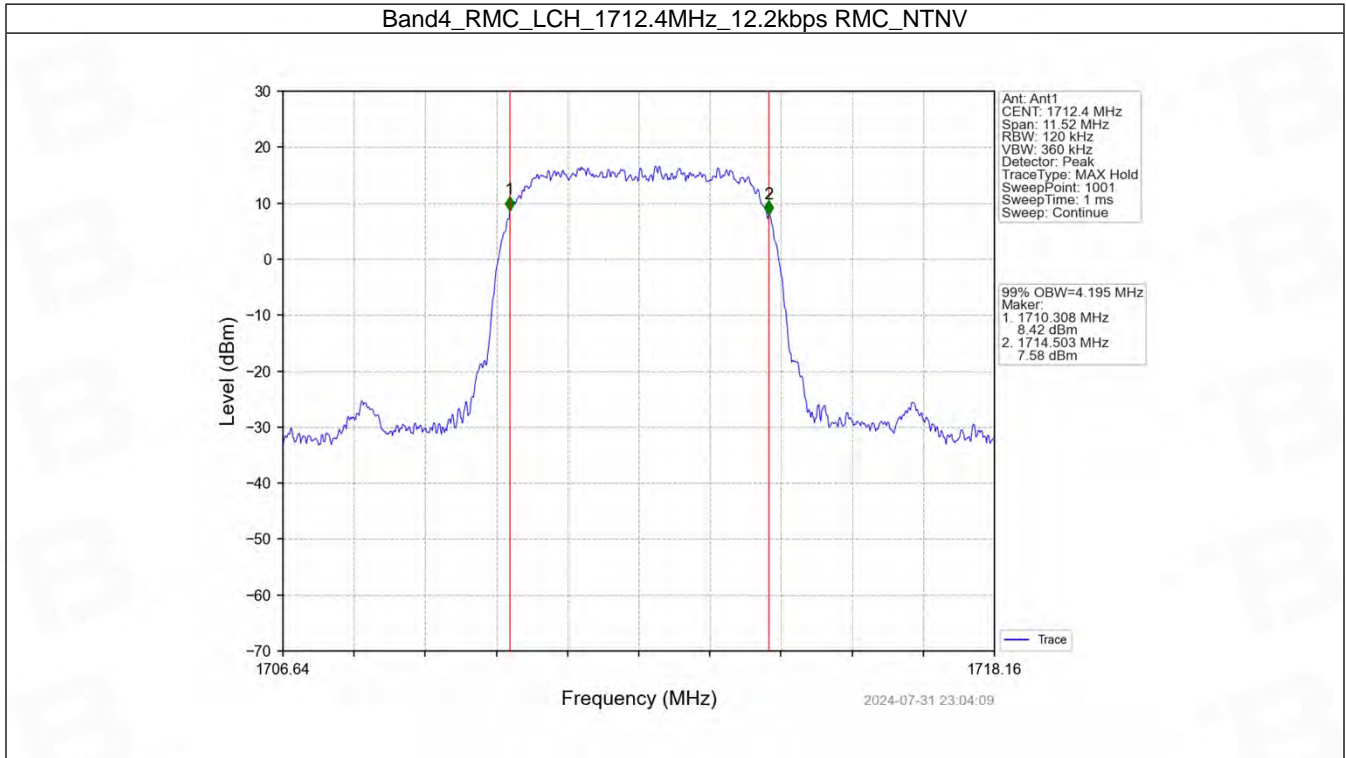
Band: 4						
ENV	Mode		Frequency (MHz)	99% Occupied Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1712.4	4.195	/	Pass
			1732.6	4.185	/	Pass
			1752.6	4.188	/	Pass
	HSDPA	Subtest 1	1712.4	4.254	/	Pass
			1732.6	4.235	/	Pass
			1752.6	4.233	/	Pass
	HSUPA	Subtest 1	1712.4	4.241	/	Pass
			1732.6	4.262	/	Pass
			1752.6	4.247	/	Pass

4.1.2 Band4_XDB

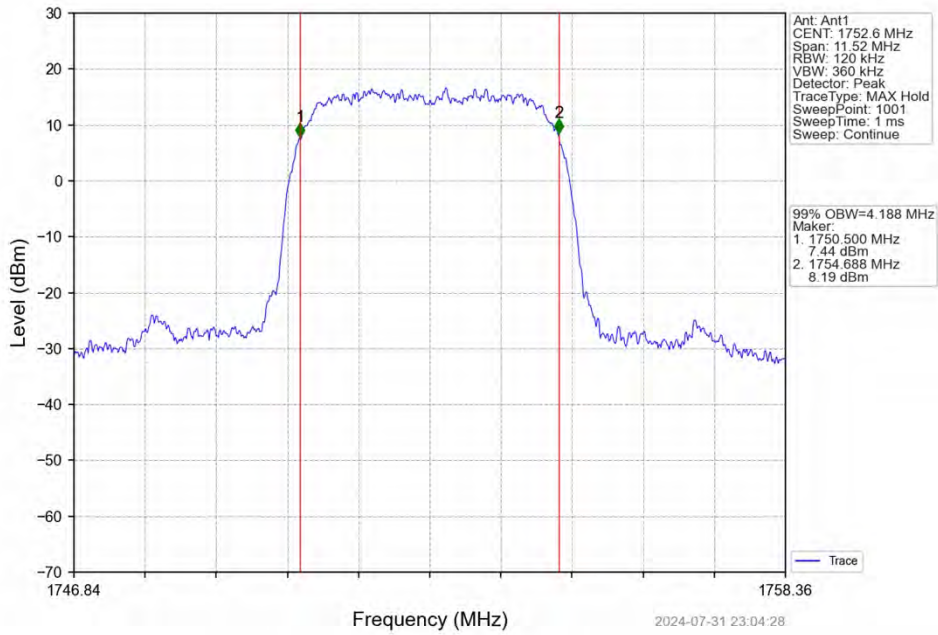
Band: 4						
ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1712.4	4.765	/	Pass
			1732.6	4.747	/	Pass
			1752.6	4.764	/	Pass
	HSDPA	Subtest 1	1712.4	6.029	/	Pass
			1732.6	8.227	/	Pass
			1752.6	6.780	/	Pass
	HSUPA	Subtest 1	1712.4	7.336	/	Pass
			1732.6	5.905	/	Pass
			1752.6	5.545	/	Pass

4.2 Test Graph

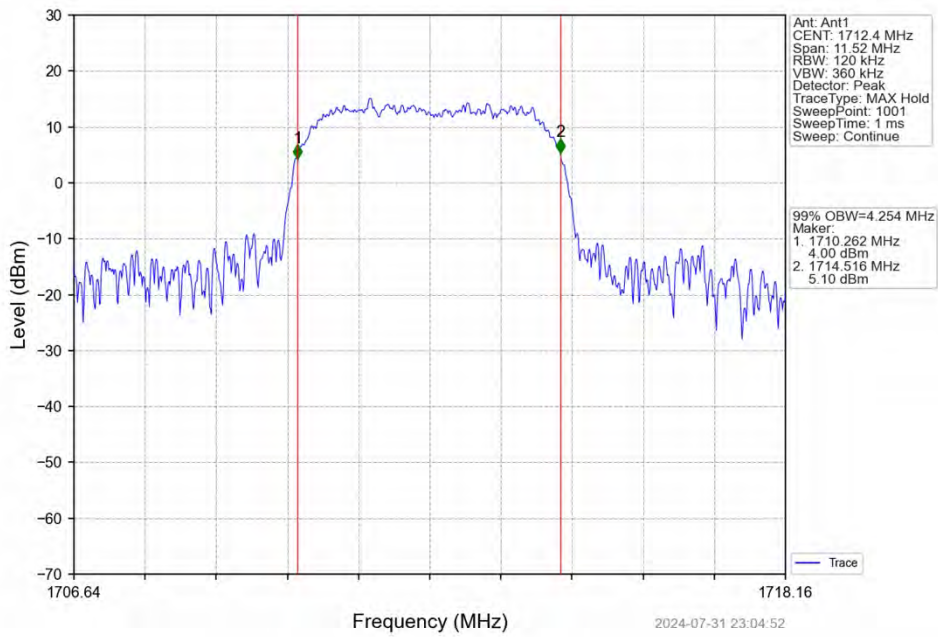
4.2.1 Band4_OBW



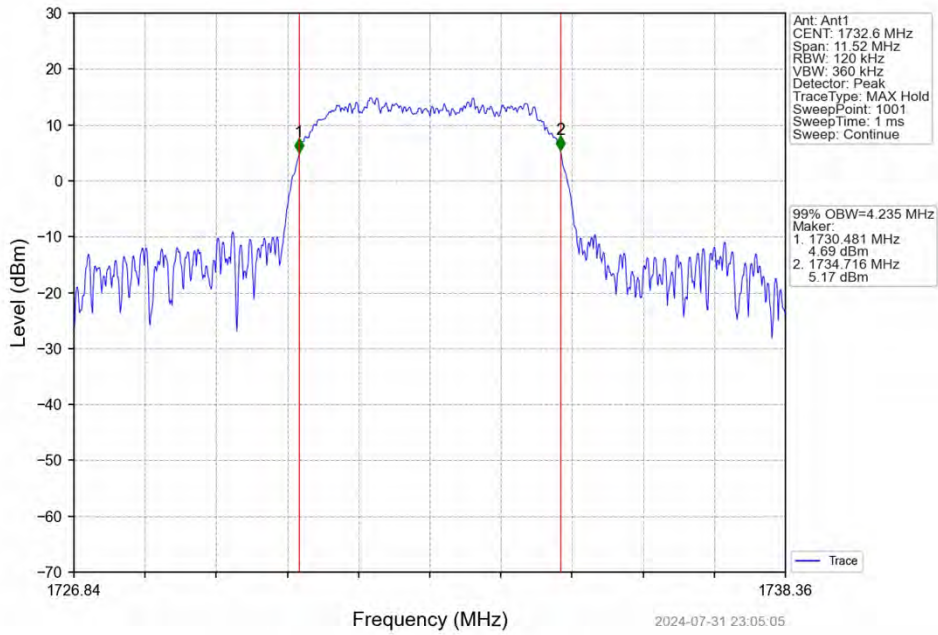
Band4_RMC_HCH_1752.6MHz_12.2kbps RMC_NTNV



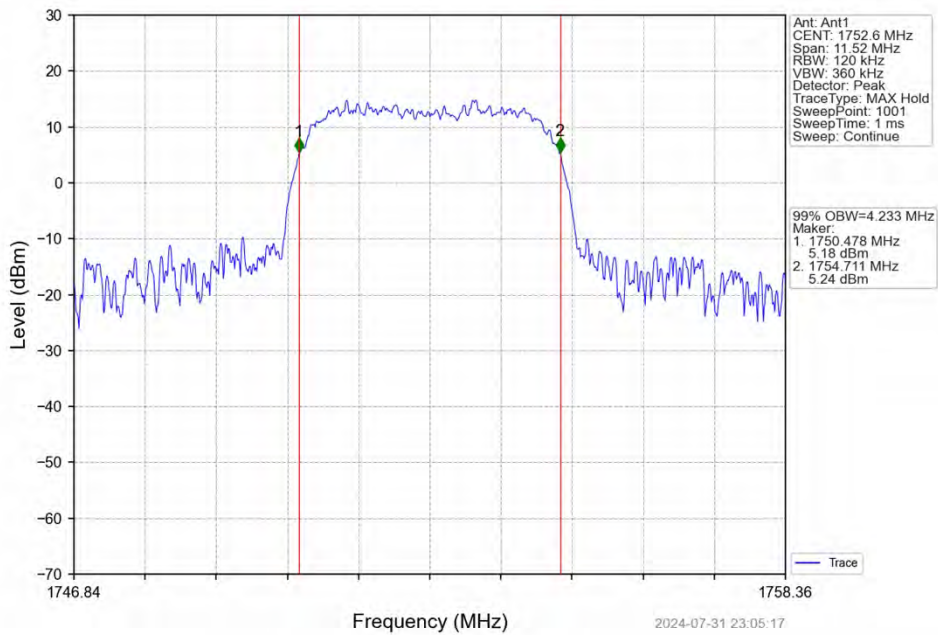
Band4_HSDPA_LCH_1712.4MHz_Subtest 1_NTNV



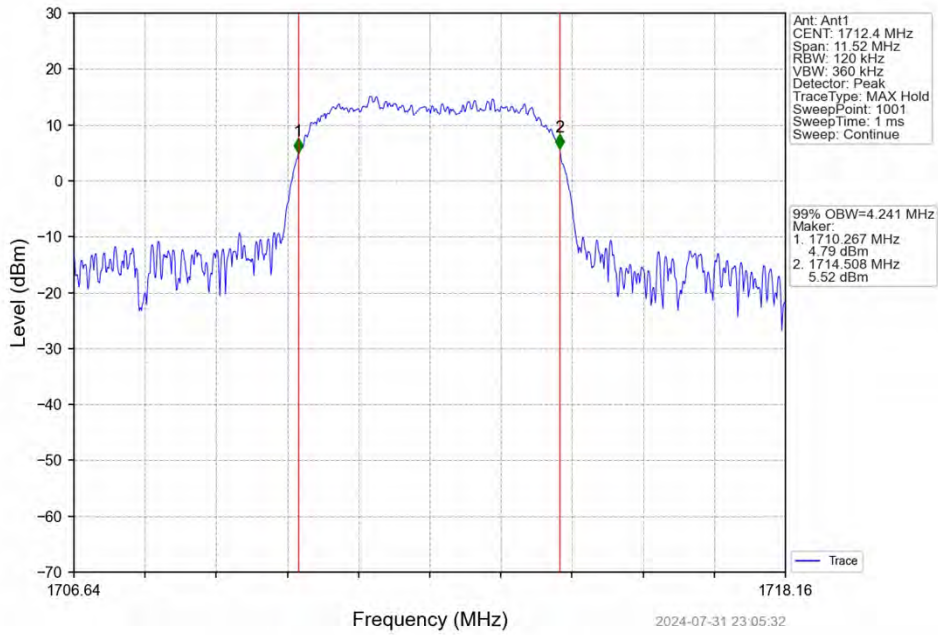
Band4_HSDPA_MCH_1732.6MHz_Subtest 1_NTNV



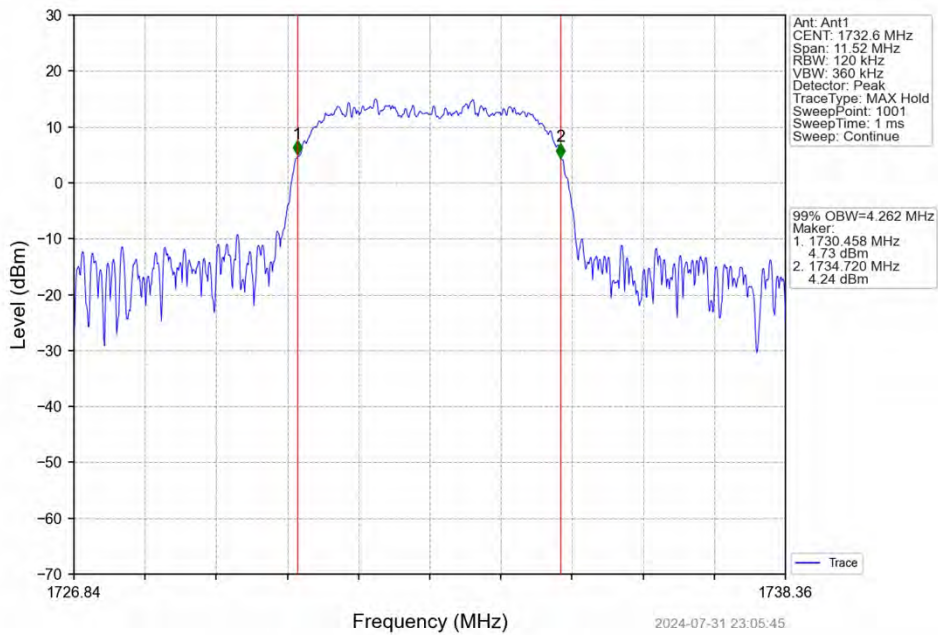
Band4_HSDPA_HCH_1752.6MHz_Subtest 1_NTNV



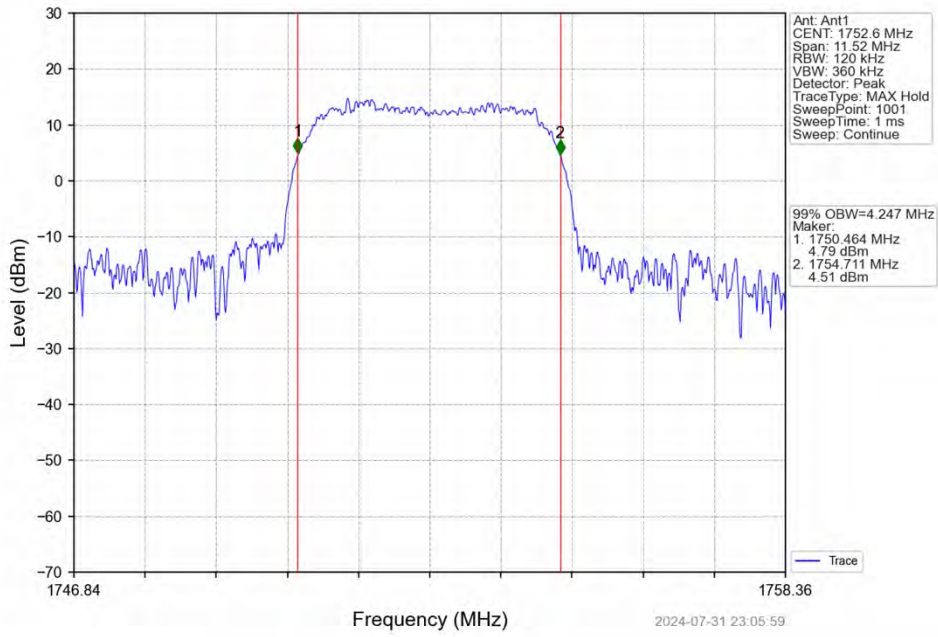
Band4_HSUPA_LCH_1712.4MHz_Subtest 1_NTNV



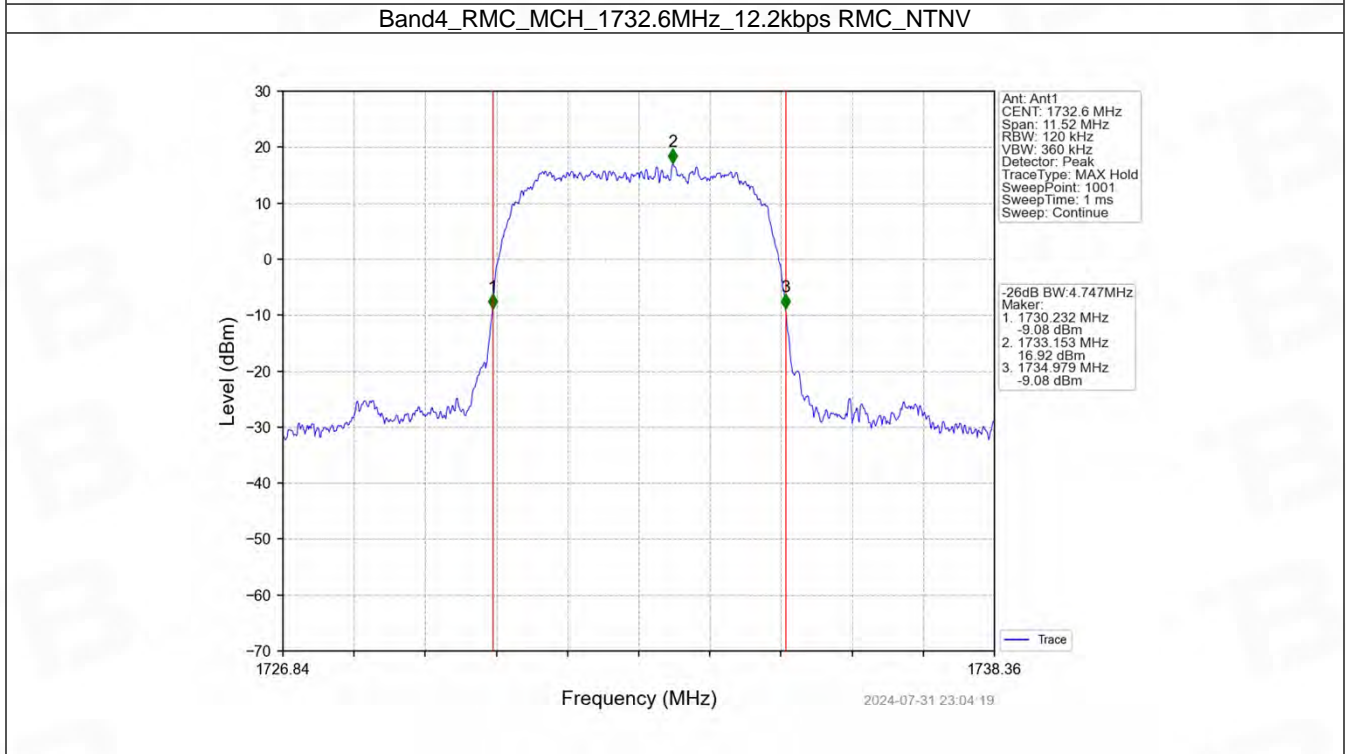
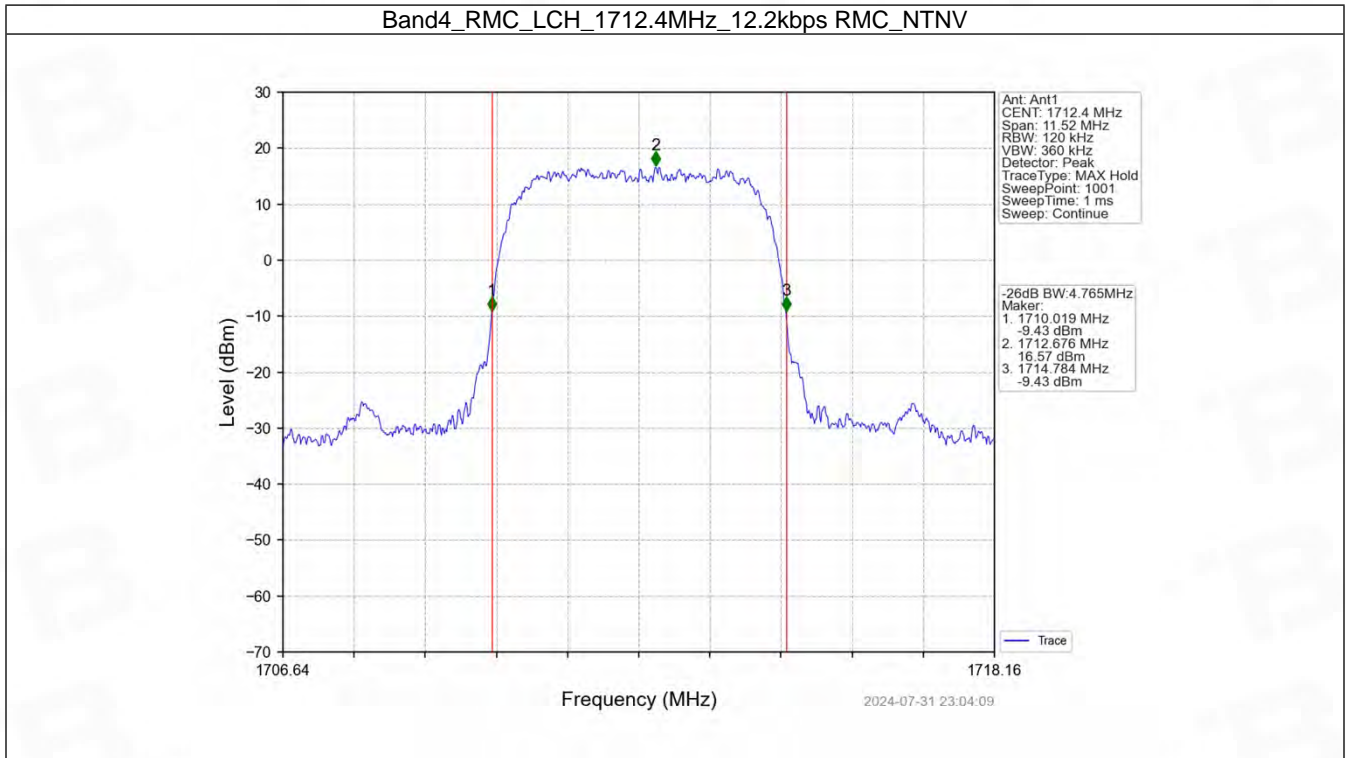
Band4_HSUPA_MCH_1732.6MHz_Subtest 1_NTNV



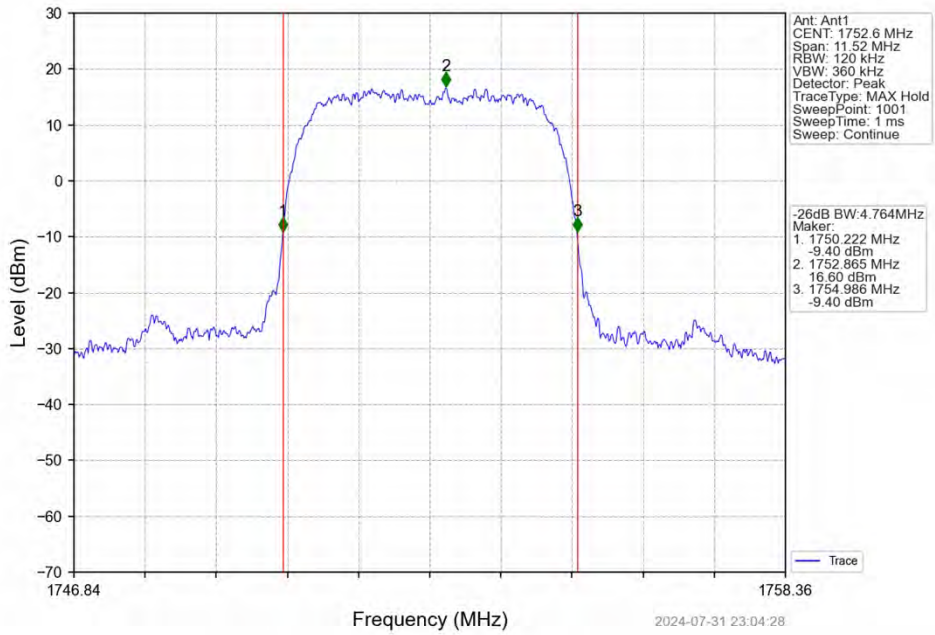
Band4_HSUPA_HCH_1752.6MHz_Subtest 1_NTNV



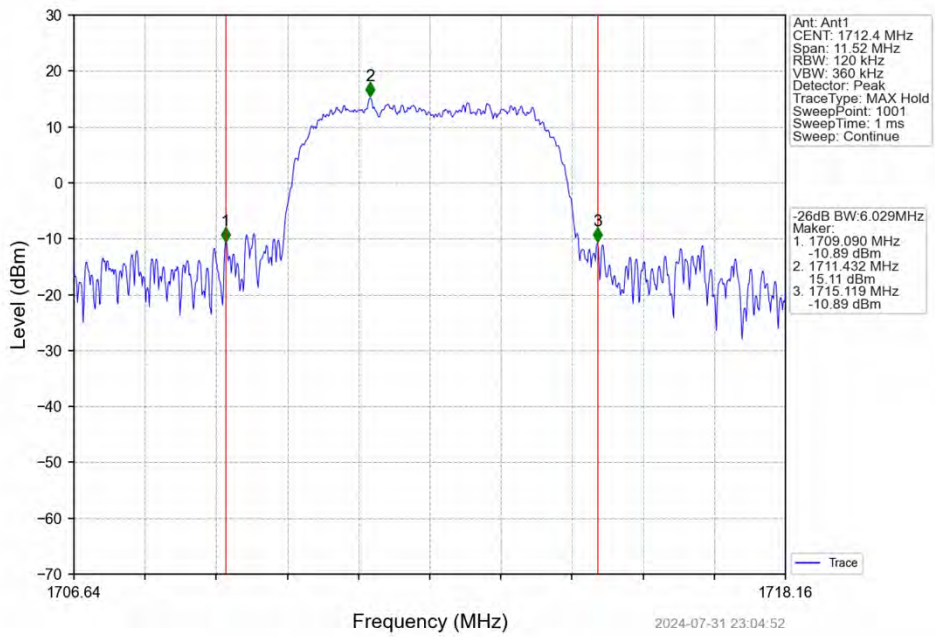
4.2.2 Band4_XDB



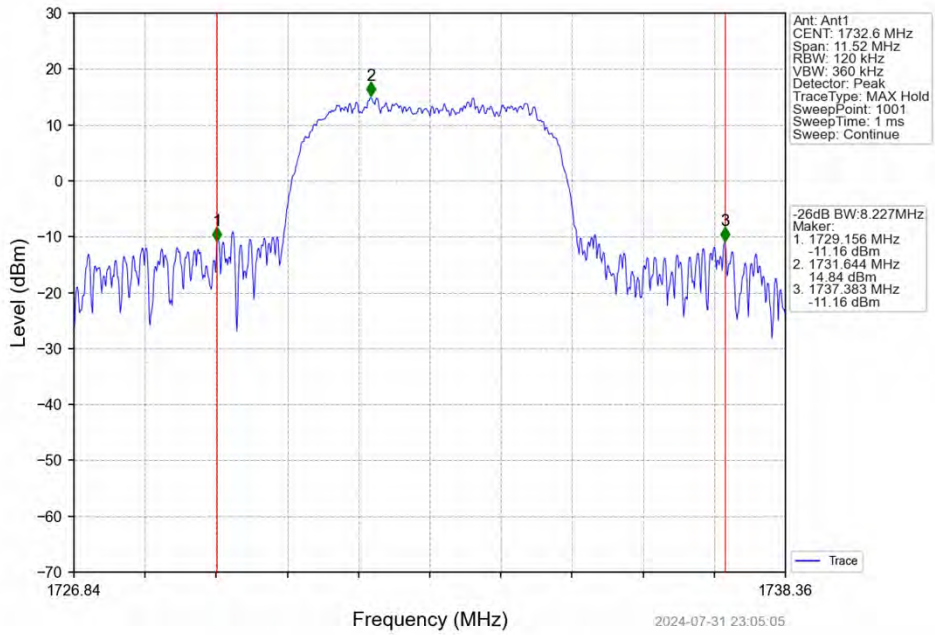
Band4_RMC_HCH_1752.6MHz_12.2kbps RMC_NTNV



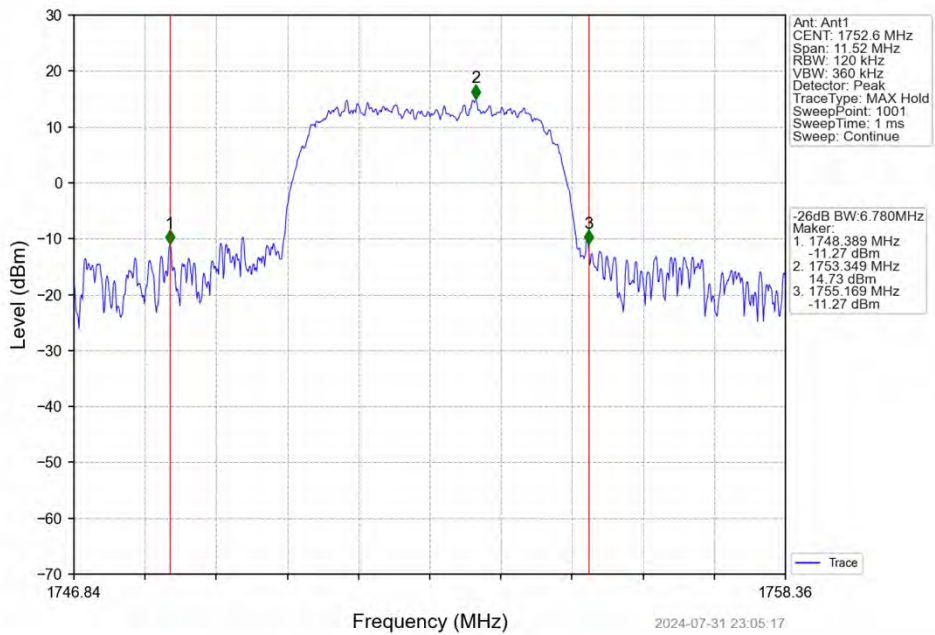
Band4_HSDPA_LCH_1712.4MHz_Subtest 1_NTNV



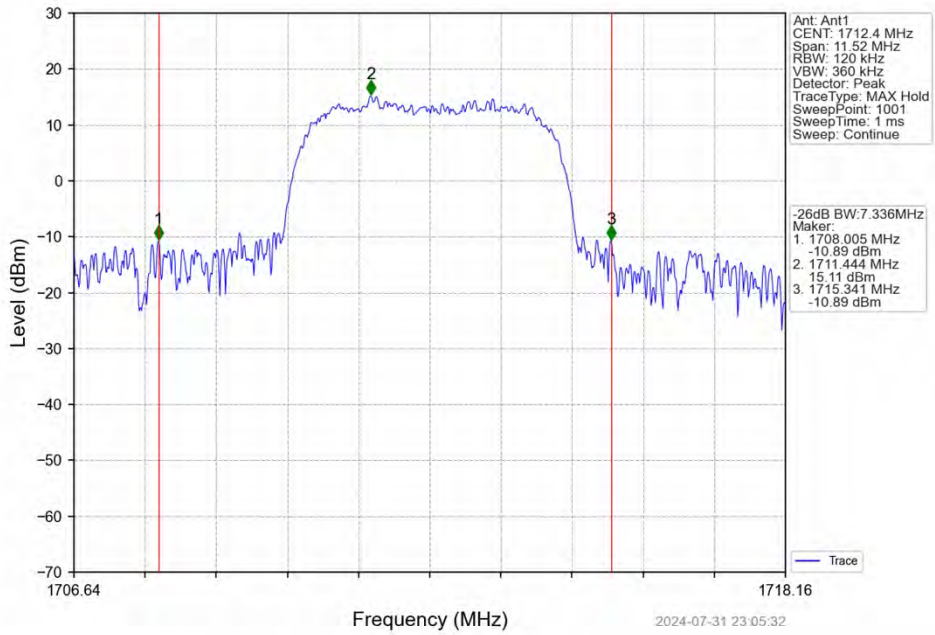
Band4_HSDPA_MCH_1732.6MHz_Subtest 1_NTNV



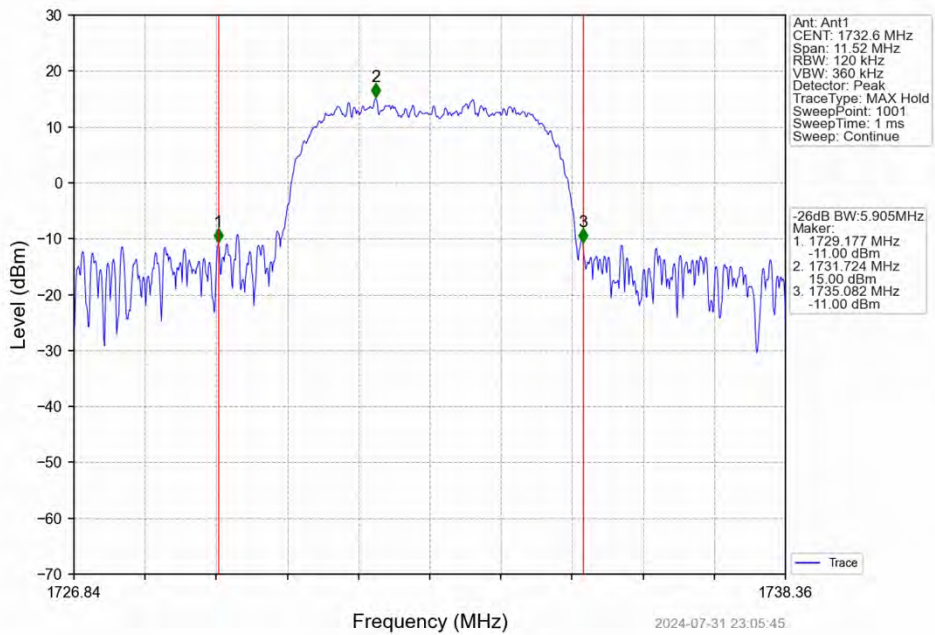
Band4_HSDPA_HCH_1752.6MHz_Subtest 1_NTNV



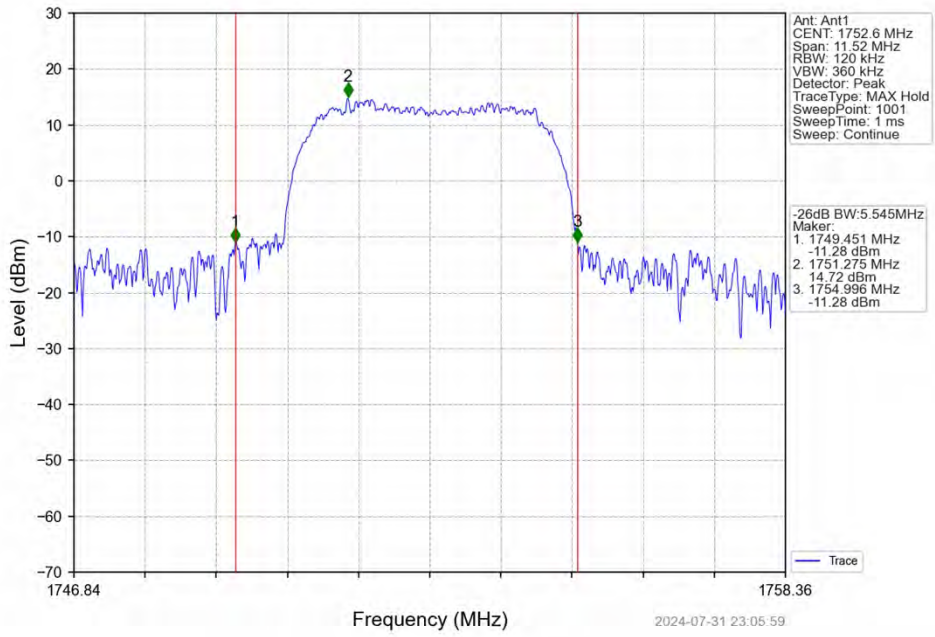
Band4_HSUPA_LCH_1712.4MHz_Subtest 1_NTNV



Band4_HSUPA_MCH_1732.6MHz_Subtest 1_NTNV



Band4_HSUPA_HCH_1752.6MHz_Subtest 1_NTNV



5. Peak-Average Ratio

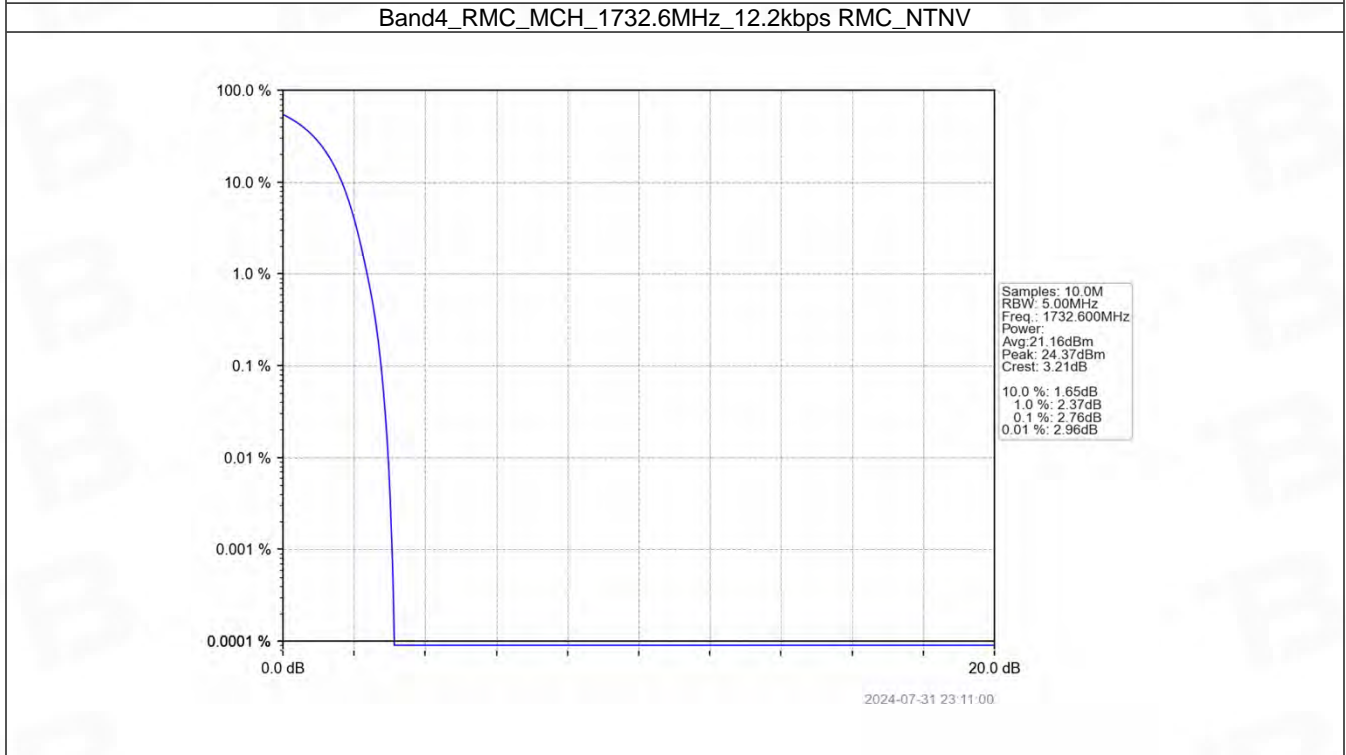
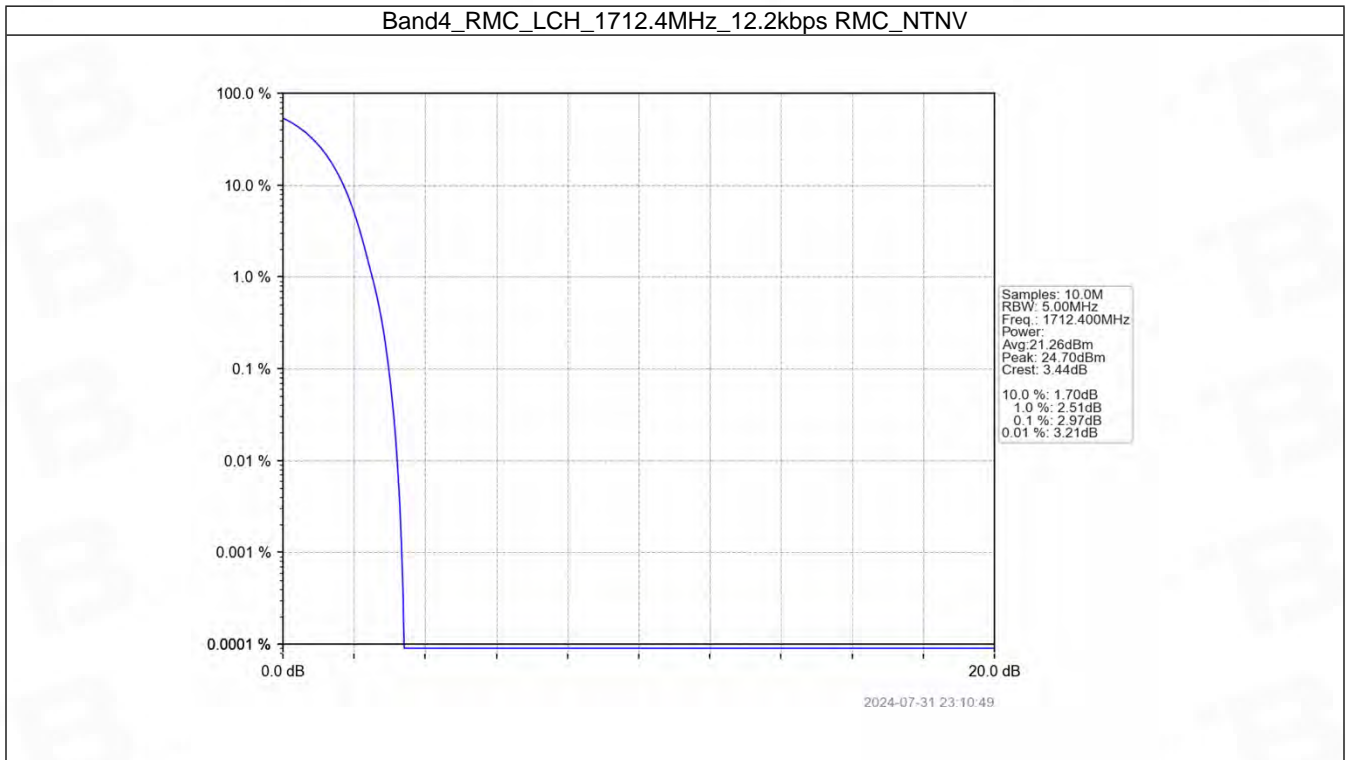
5.1 Test Result

5.1.1 Band4

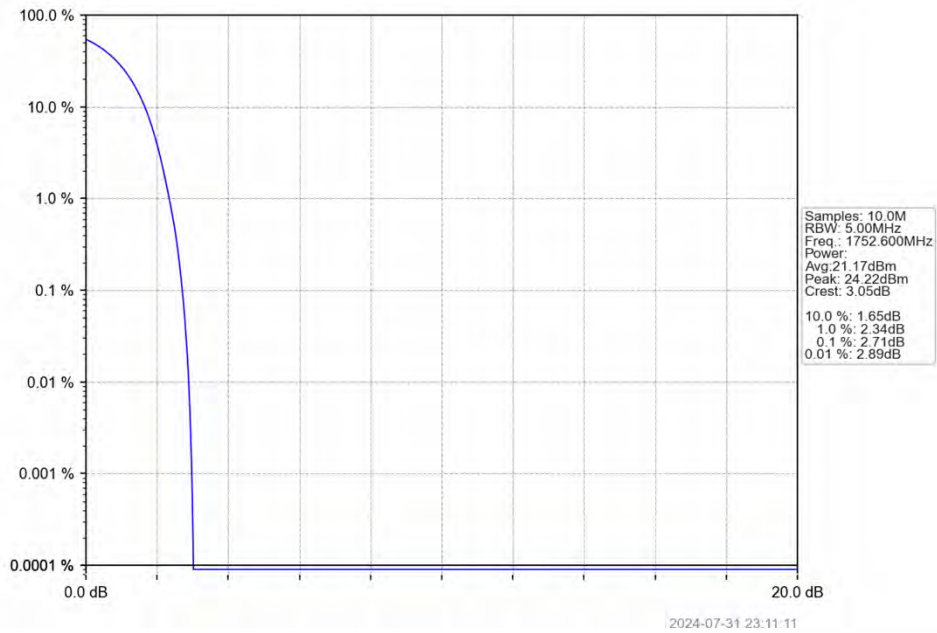
Band: 4						
ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1712.4	2.97	<=13	Pass
			1732.6	2.76	<=13	Pass
			1752.6	2.71	<=13	Pass
	HSDPA	Subtest 1	1712.4	6.05	<=13	Pass
			1732.6	5.91	<=13	Pass
			1752.6	5.95	<=13	Pass
	HSUPA	Subtest 1	1712.4	5.98	<=13	Pass
			1732.6	5.98	<=13	Pass
			1752.6	5.90	<=13	Pass

5.2 Test Graph

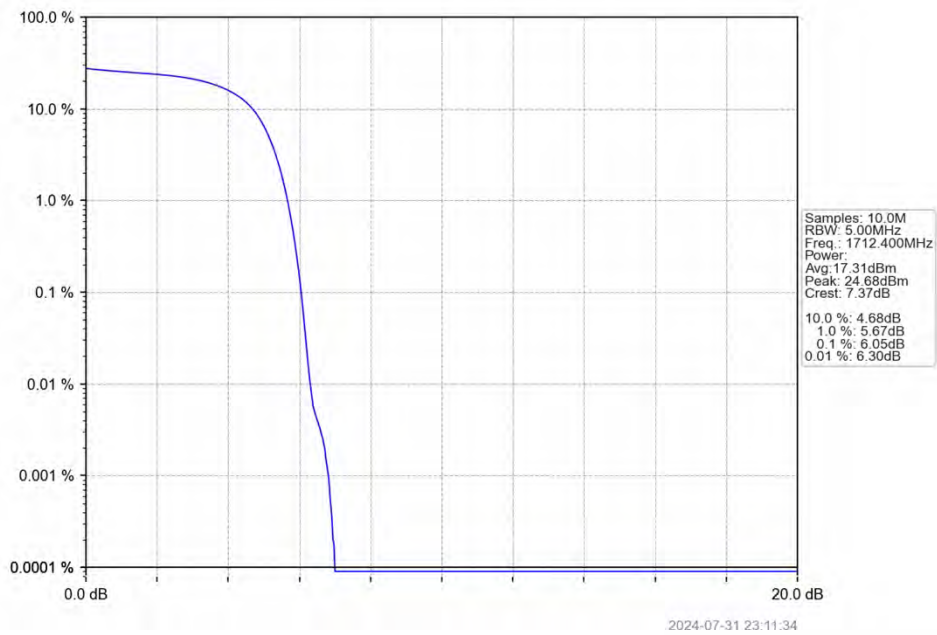
5.2.1 Band4



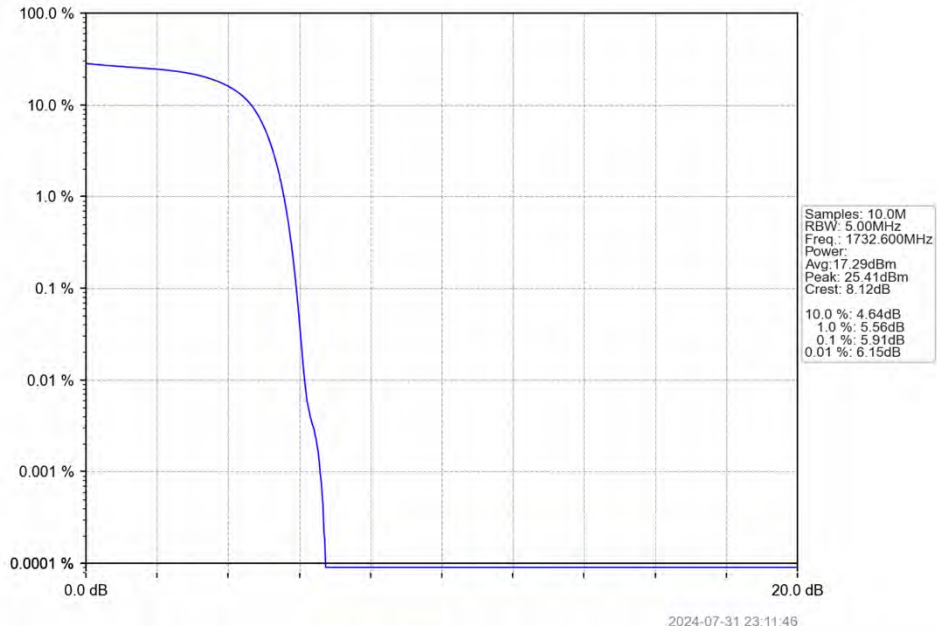
Band4_RMC_HCH_1752.6MHz_12.2kbps RMC_NTNV



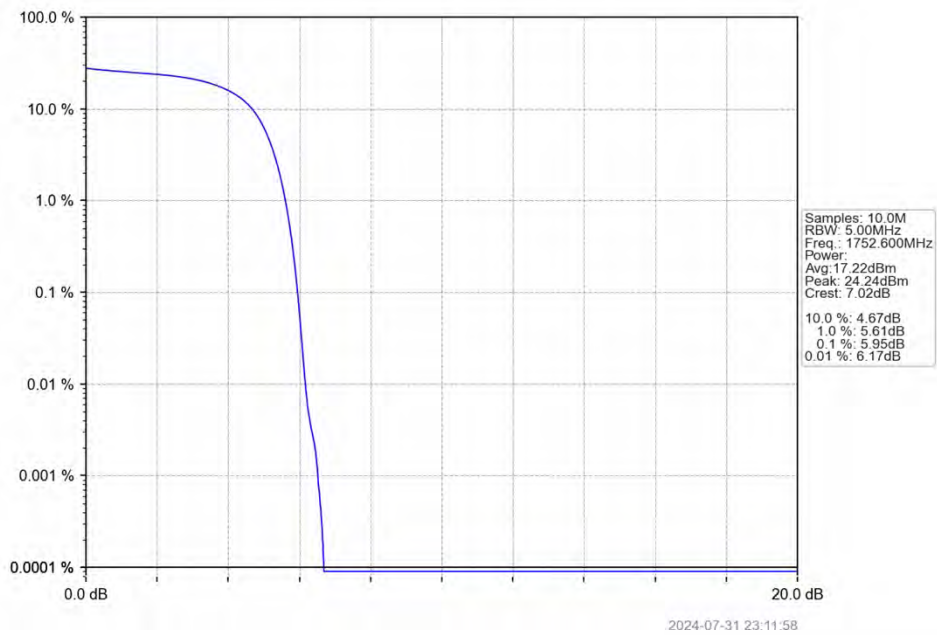
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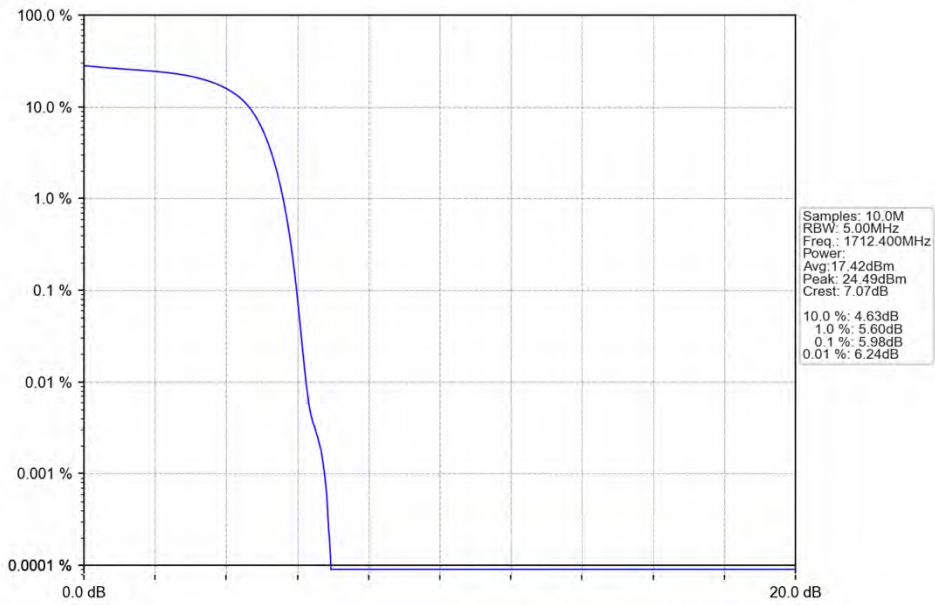
Band4_HSDPA_MCH_1732.6MHz_Subtest 1_NTNV



Band4_HSDPA_HCH_1752.6MHz_Subtest 1_NTNV

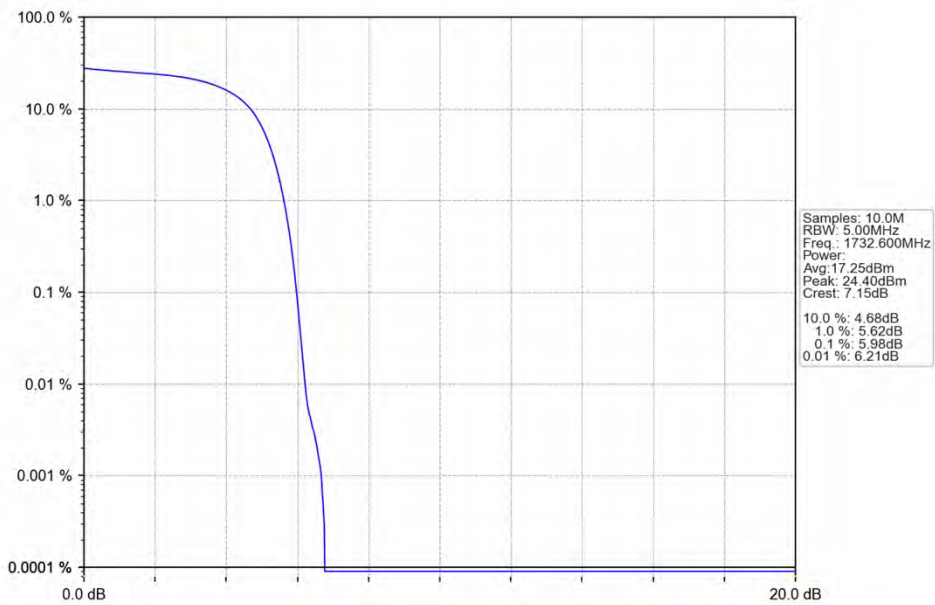


Band4_HSUPA_LCH_1712.4MHz_Subtest 1_NTNV



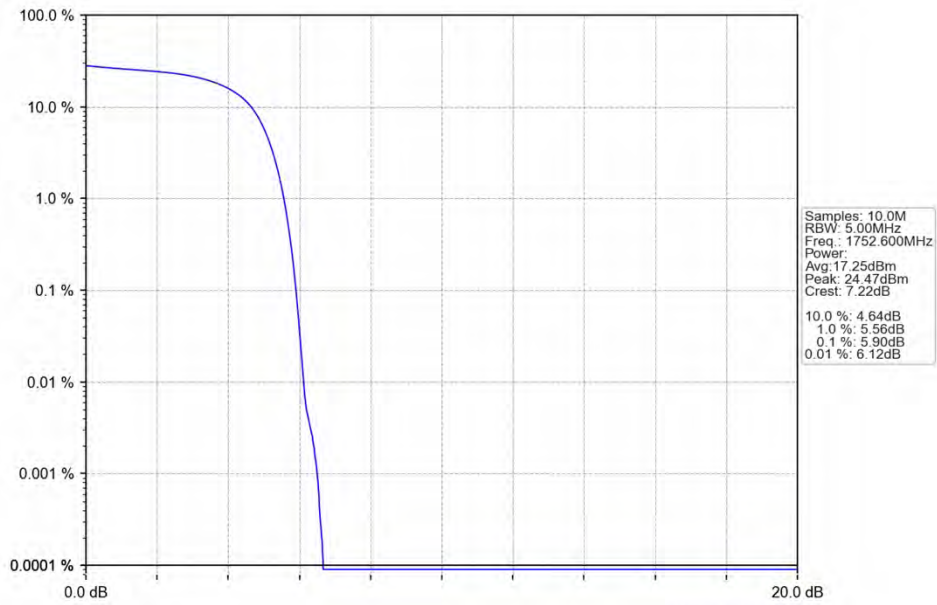
2024-07-31 23:12:11

Band4_HSUPA_MCH_1732.6MHz_Subtest 1_NTNV



2024-07-31 23:12:24

Band4_HSUPA_HCH_1752.6MHz_Subtest 1_NTNV



2024-07-31 23:12:36

6. Spurious Emission

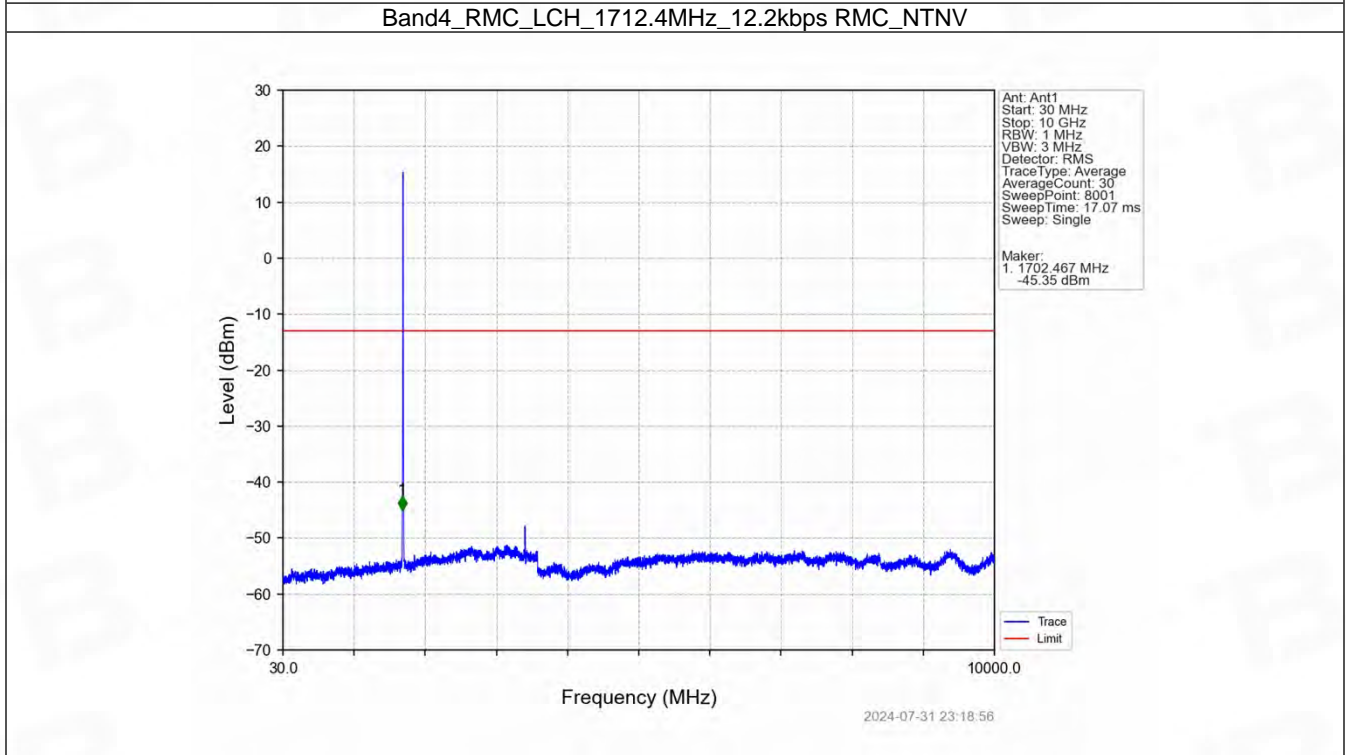
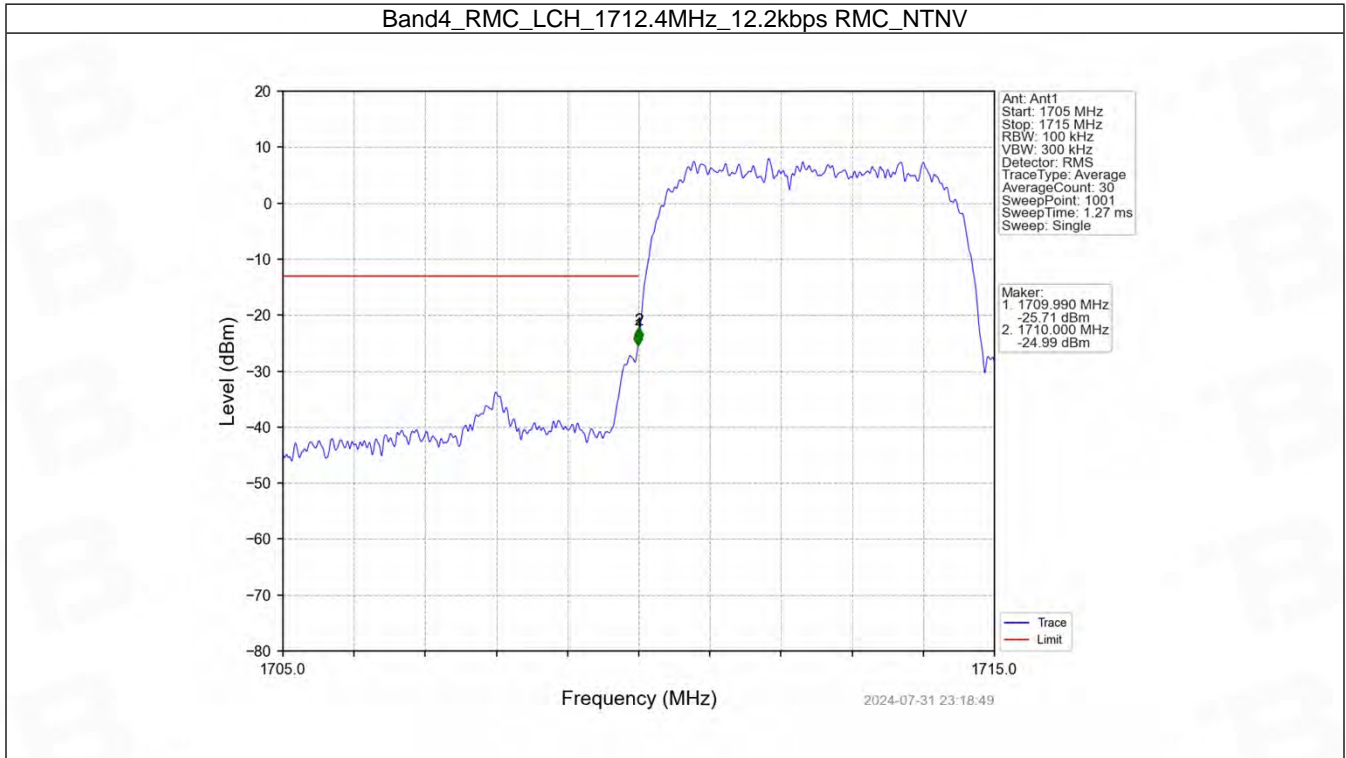
6.1 Test Result

6.1.1 Band4

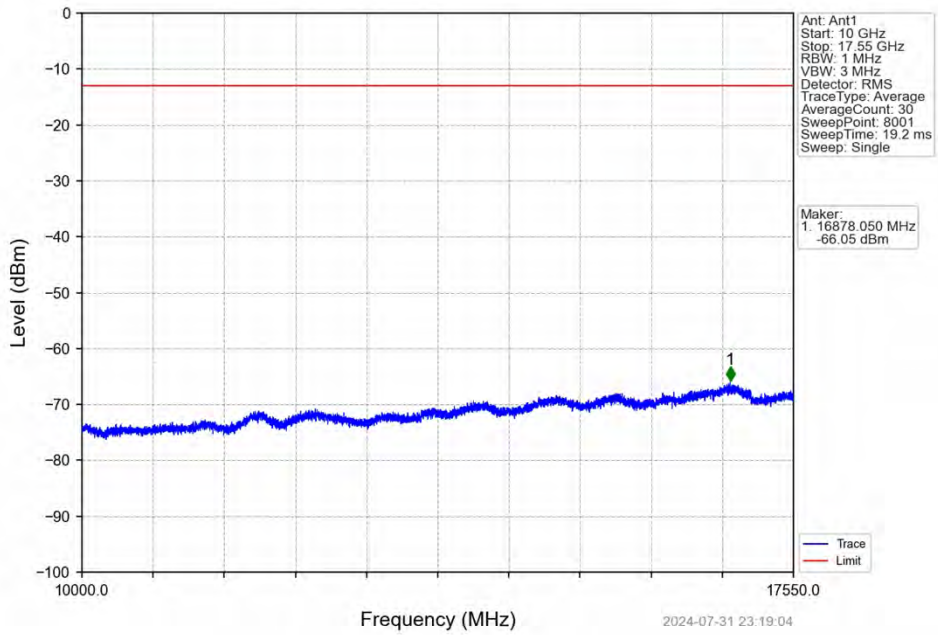
Band: 4						
ENV	Mode		Frequency (MHz)	Spurious Emission		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1712.4	Refer To Test Graph	Pass	
			1732.6	Refer To Test Graph	Pass	
			1752.6	Refer To Test Graph	Pass	
	HSDPA	Subtest 1	1712.4	Refer To Test Graph	Pass	
			1732.6	Refer To Test Graph	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	

6.2 Test Graph

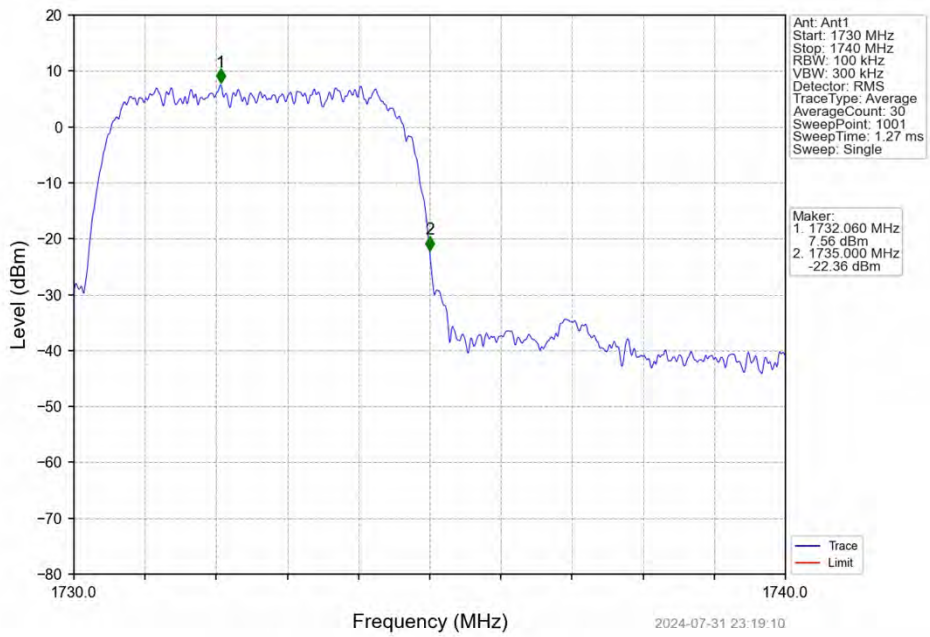
6.2.1 Band4



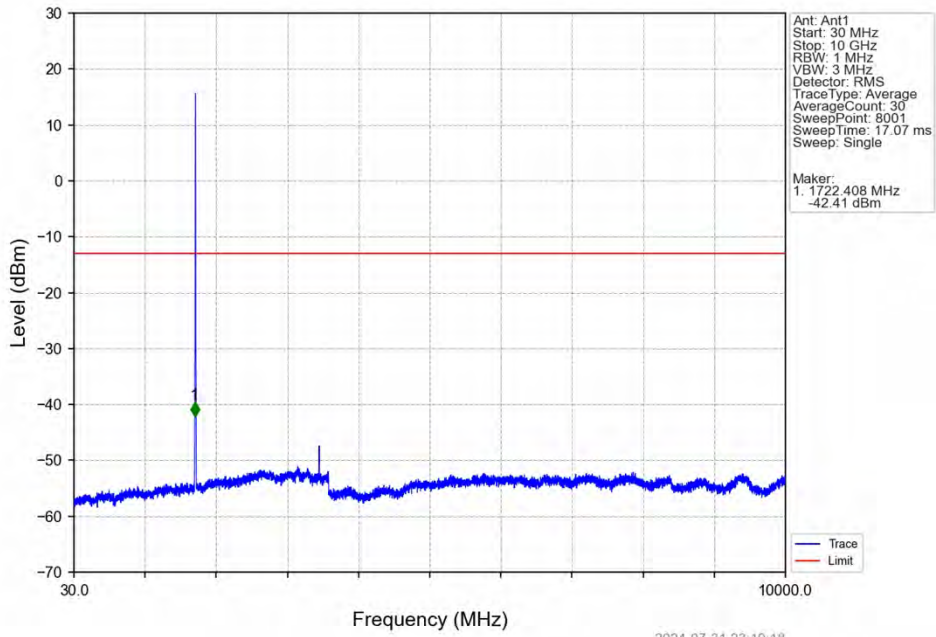
Band4_RMC_LCH_1712.4MHz_12.2kbps RMC_NTNV



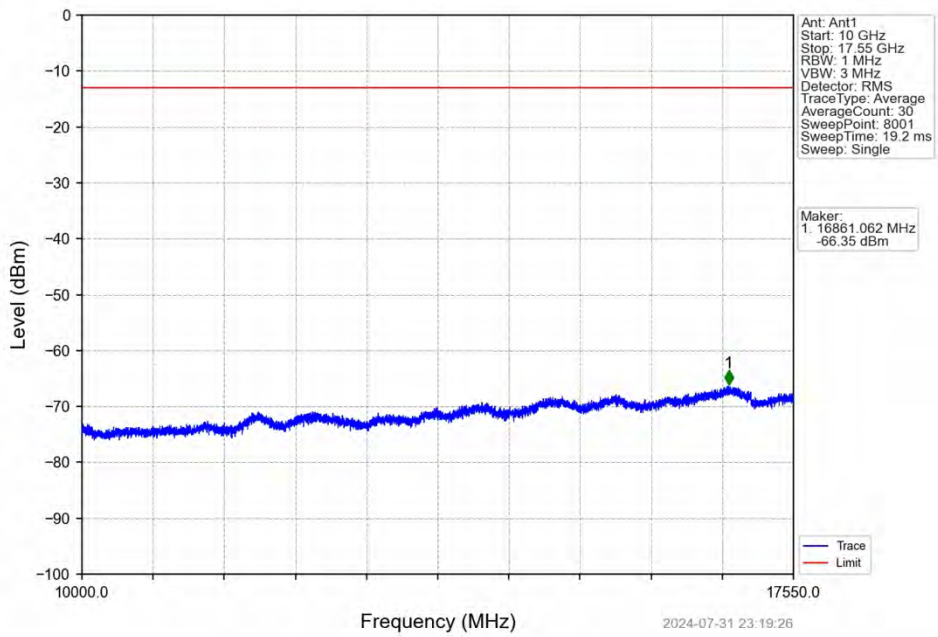
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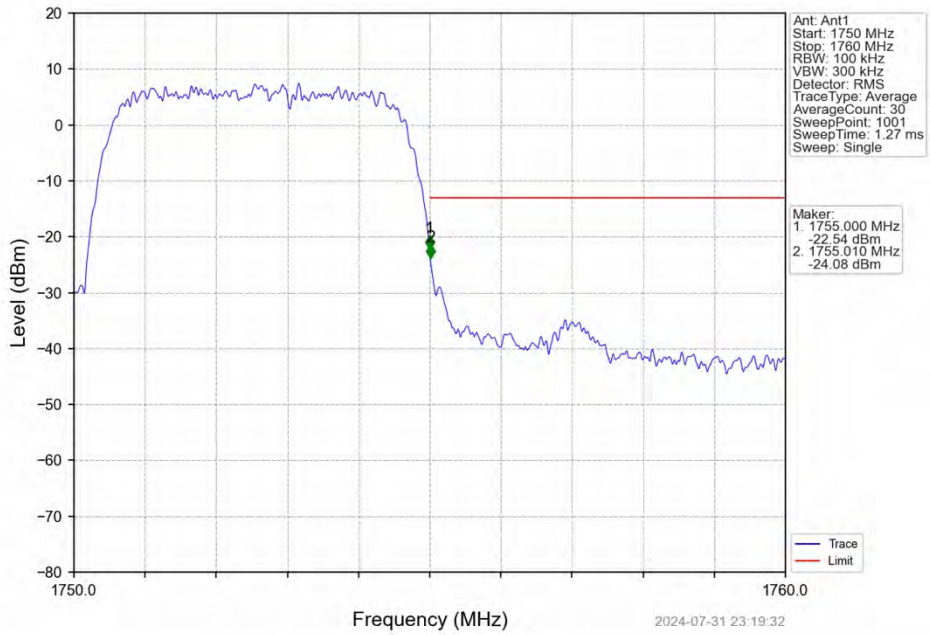
Band4_RMC_MCH_1732.6MHz_12.2kbps RMC_NTNV



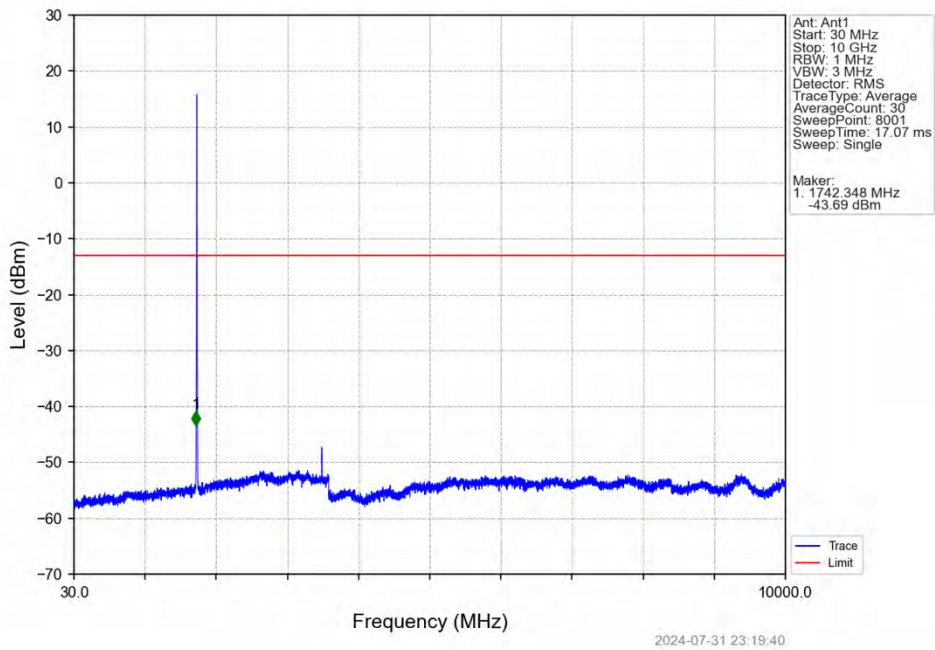
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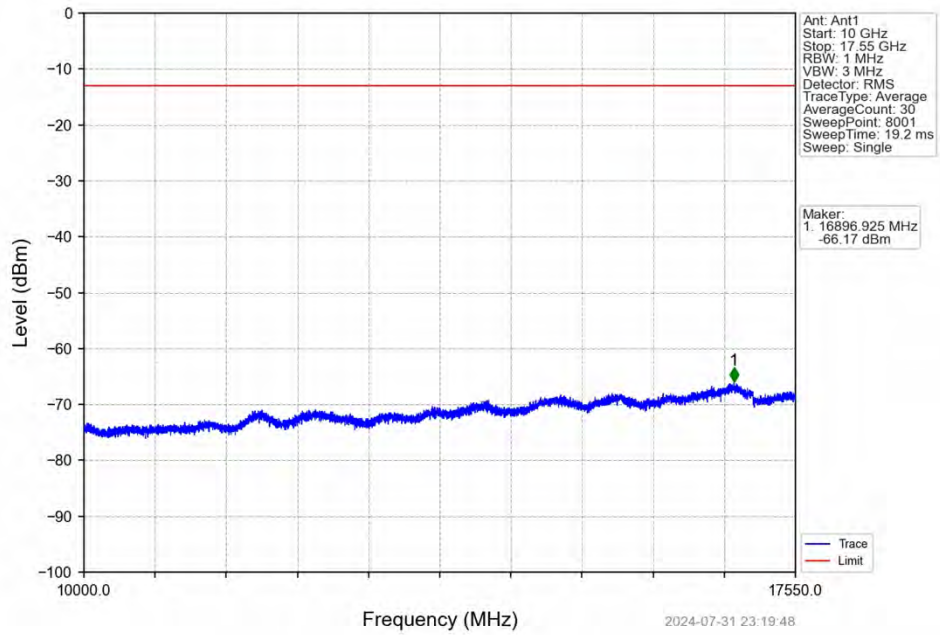
Band4_RMC_HCH_1752.6MHz_12.2kbps RMC_NTNV



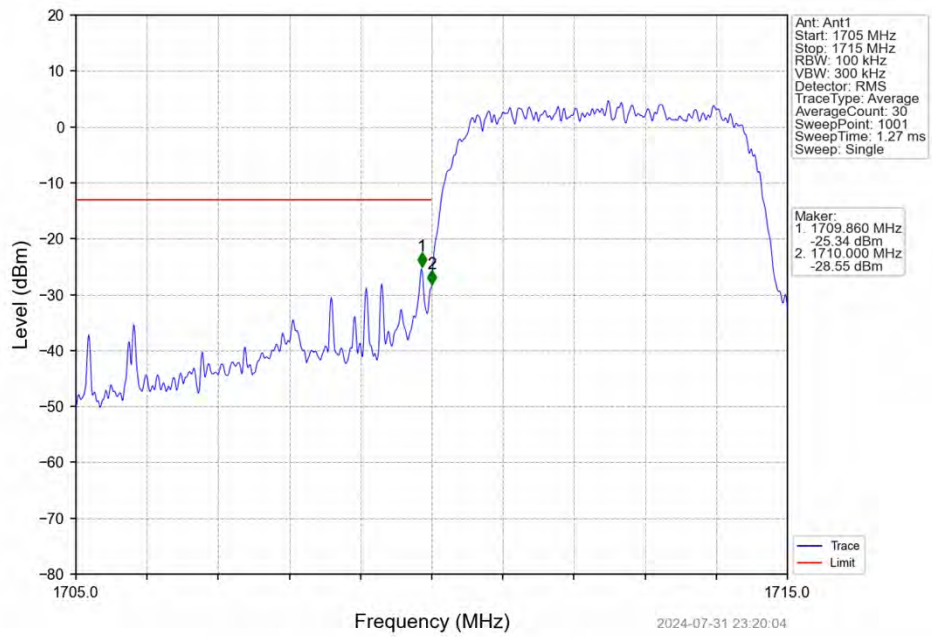
Band4_RMC_HCH_1752.6MHz_12.2kbps RMC_NTNV



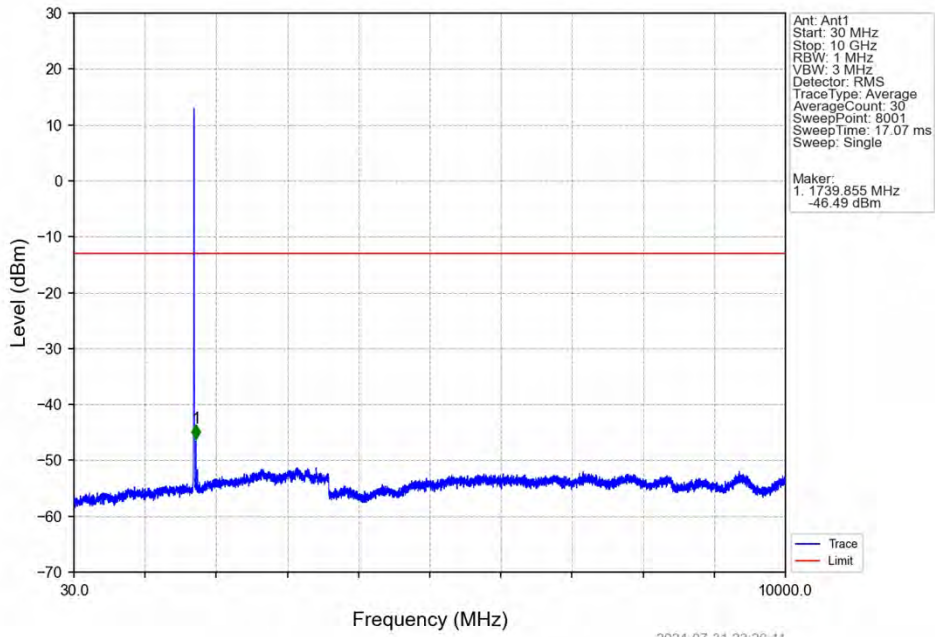
Band4_RMC_HCH_1752.6MHz_12.2kbps RMC_NTNV



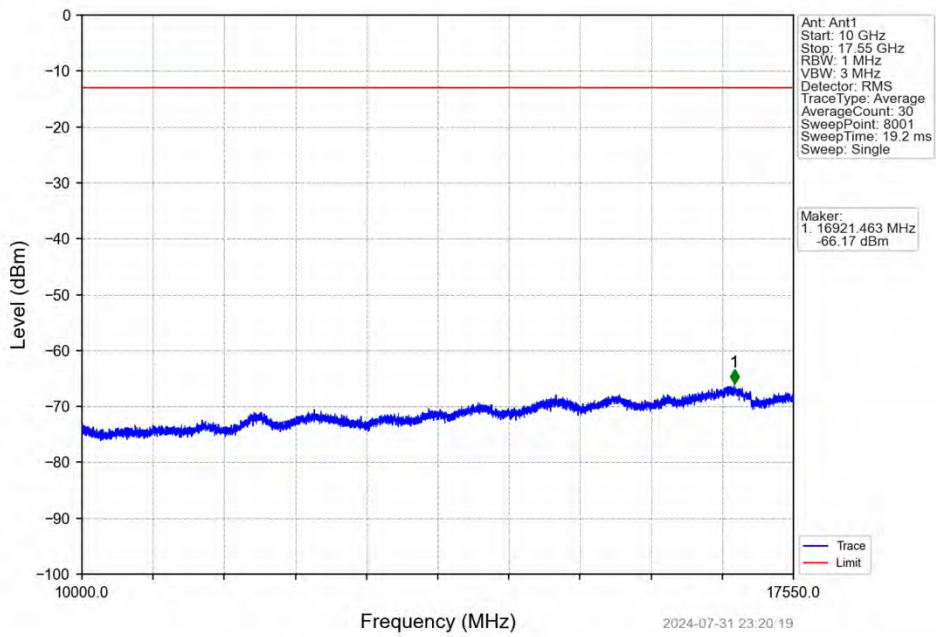
Band4_HSDPA_LCH_1712.4MHz_Subtest 1_NTNV



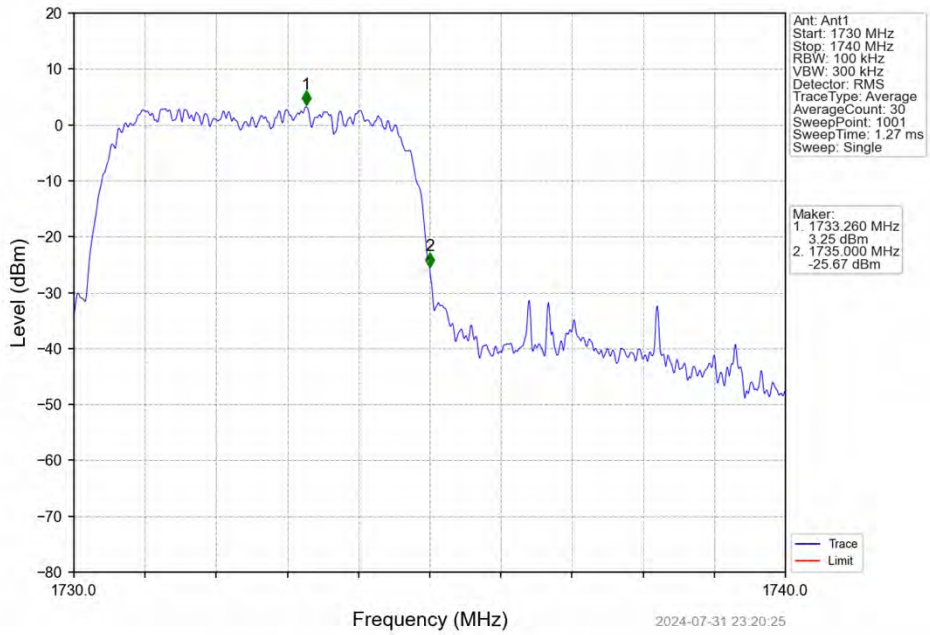
Band4_HSDPA_LCH_1712.4MHz_Subtest 1_NTNV



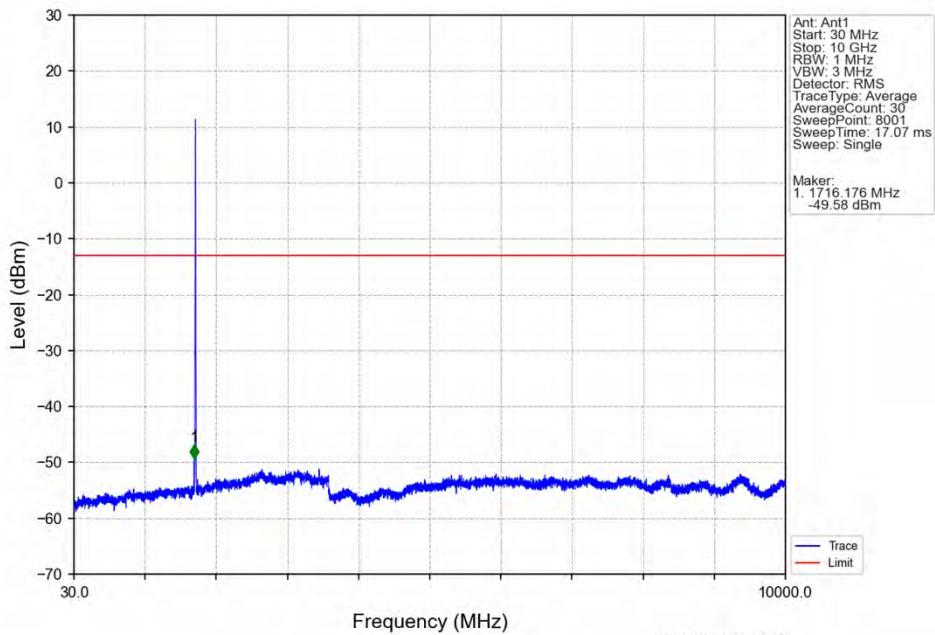
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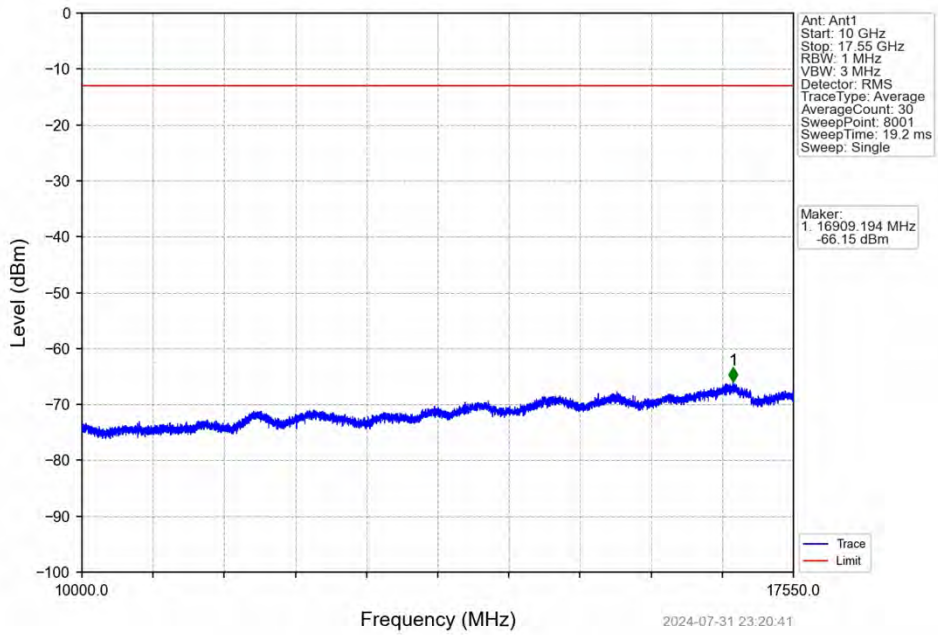
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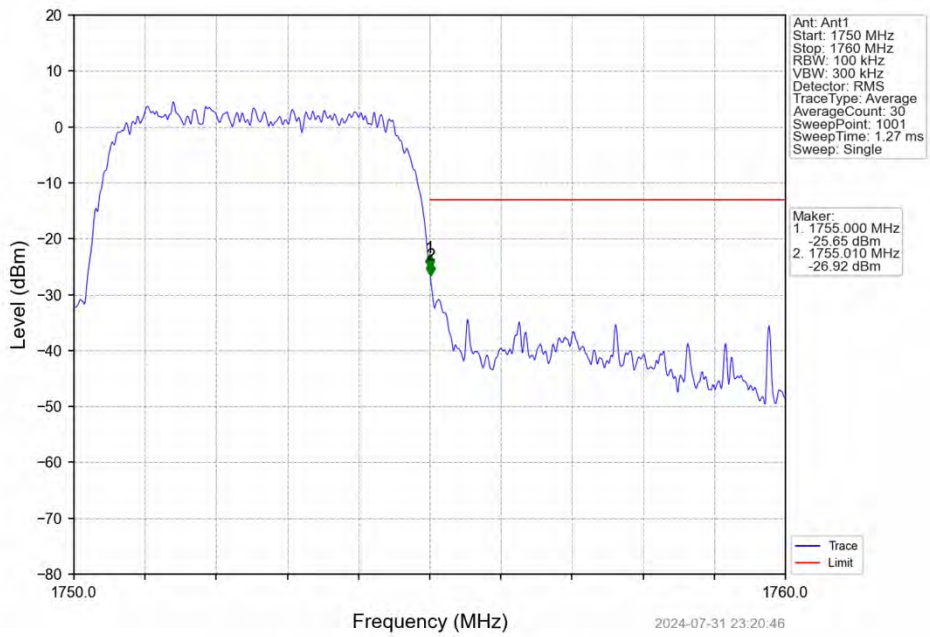
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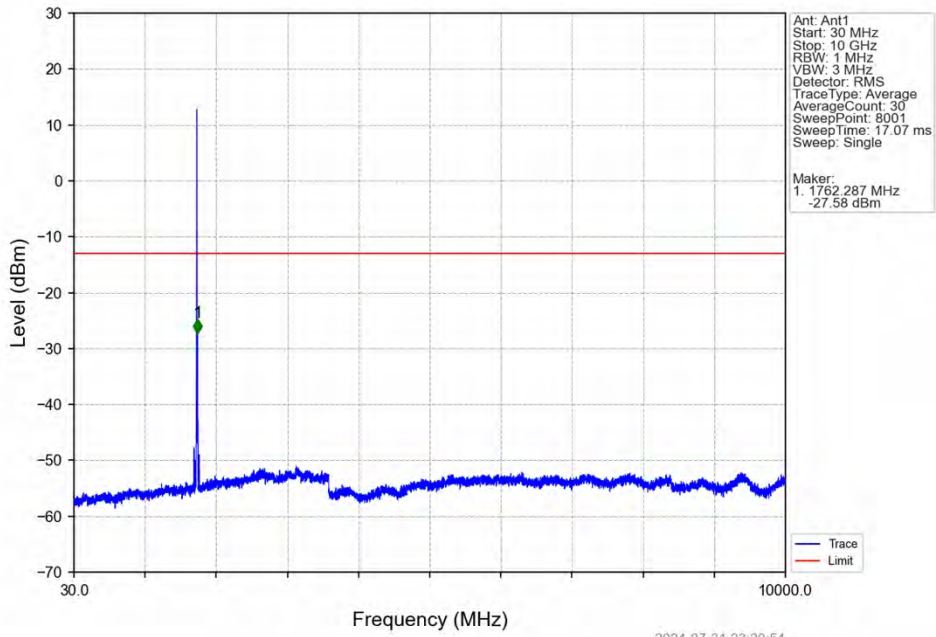
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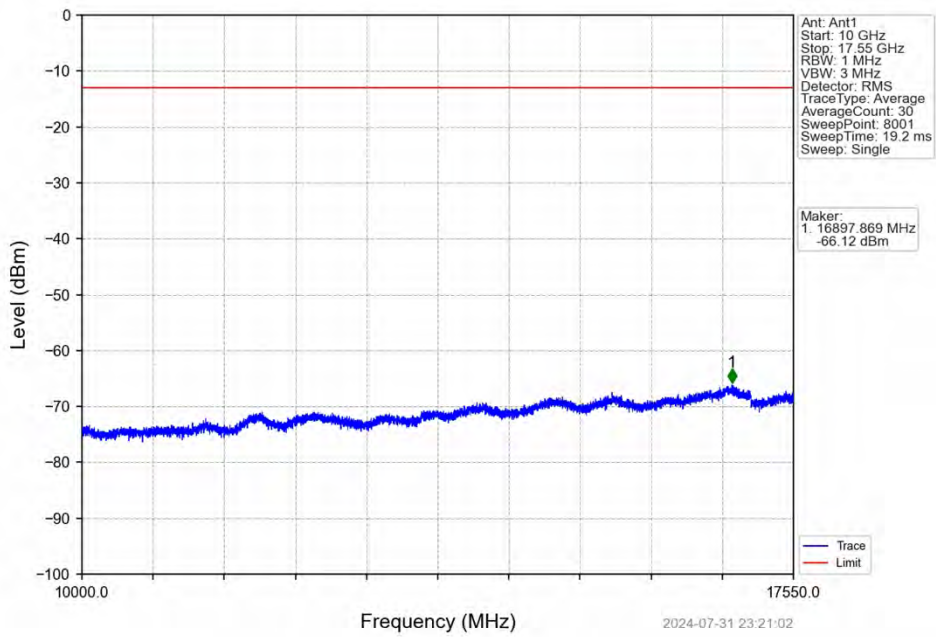
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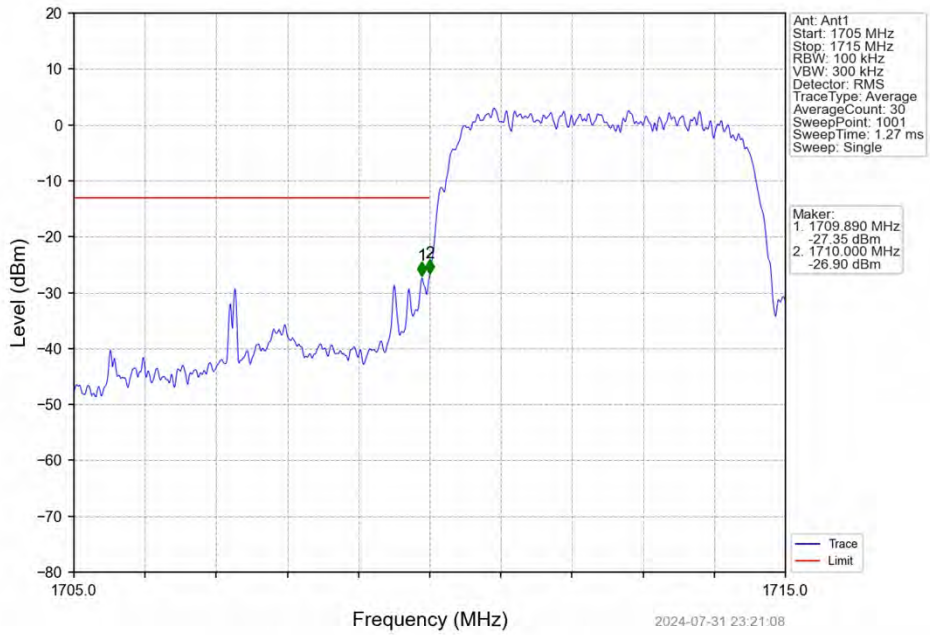
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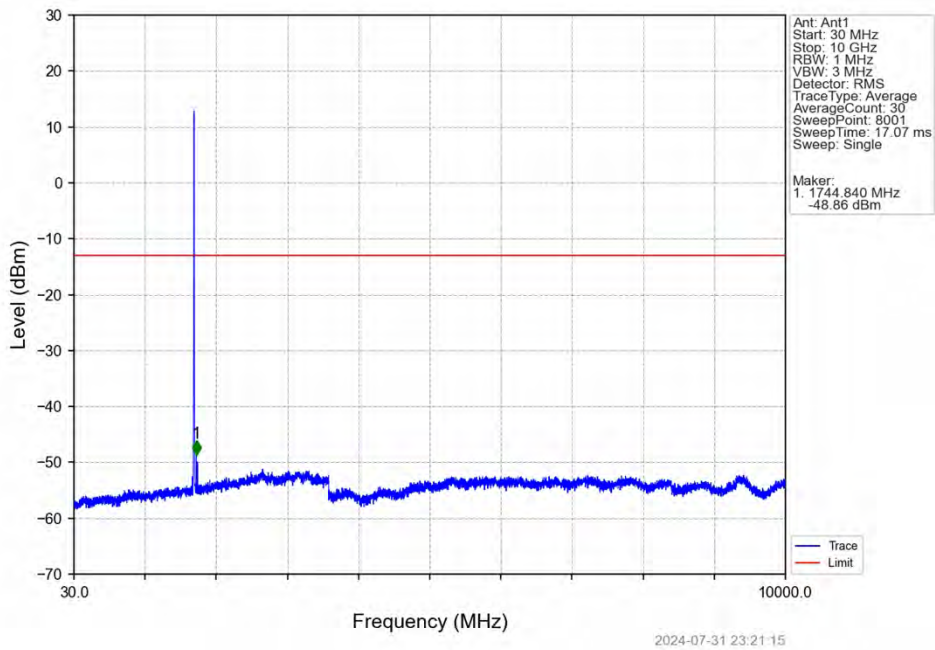
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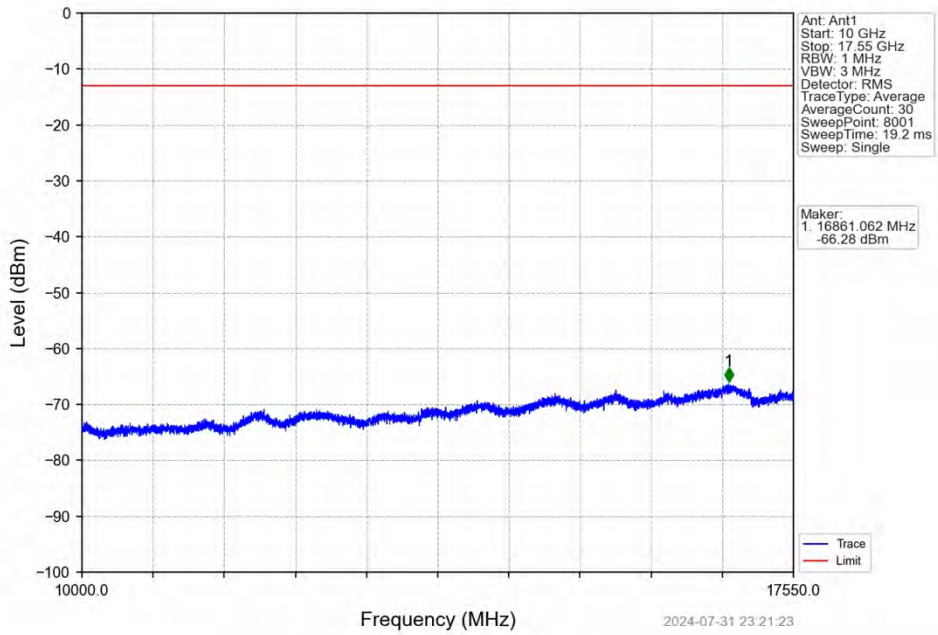
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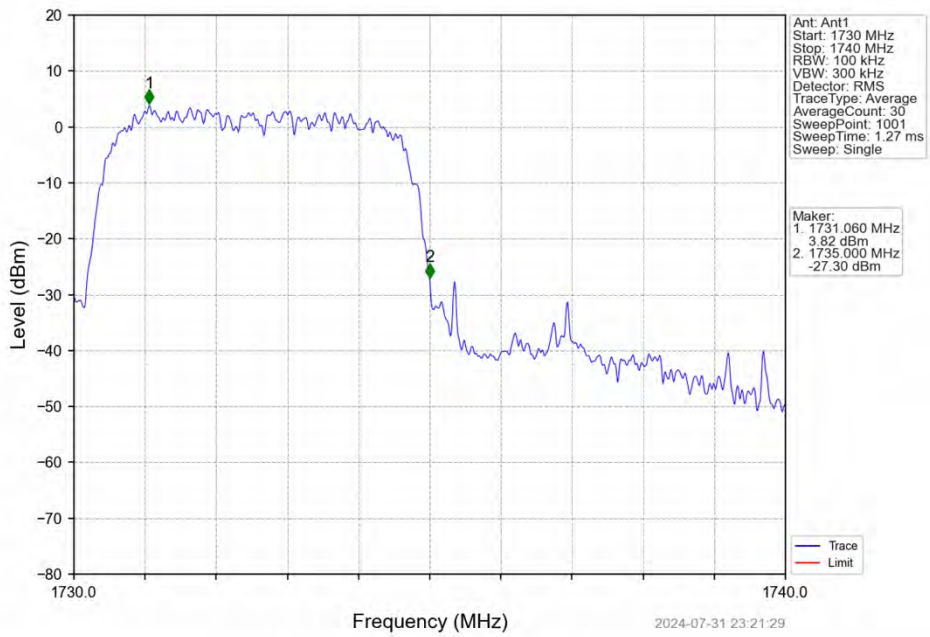
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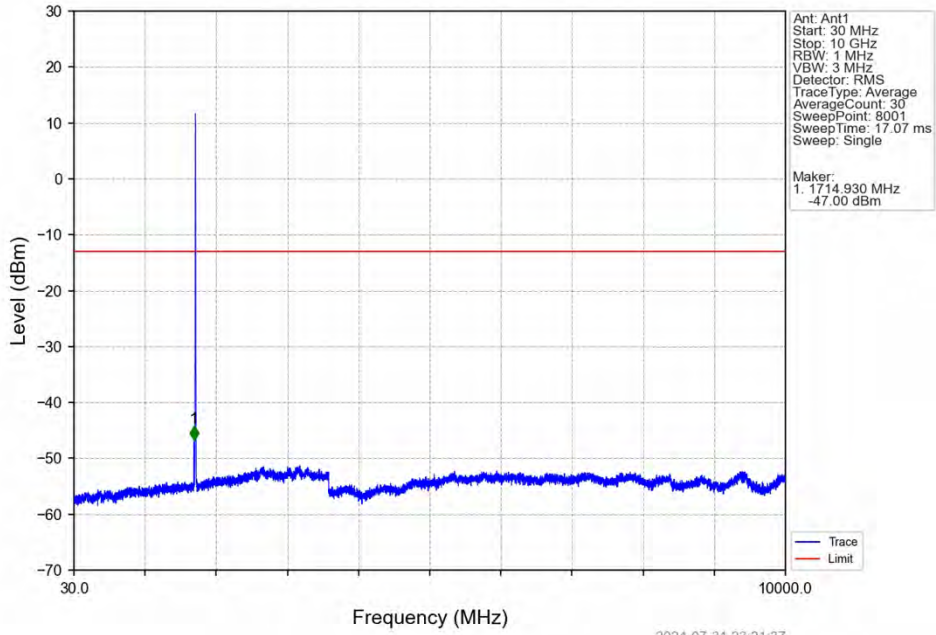
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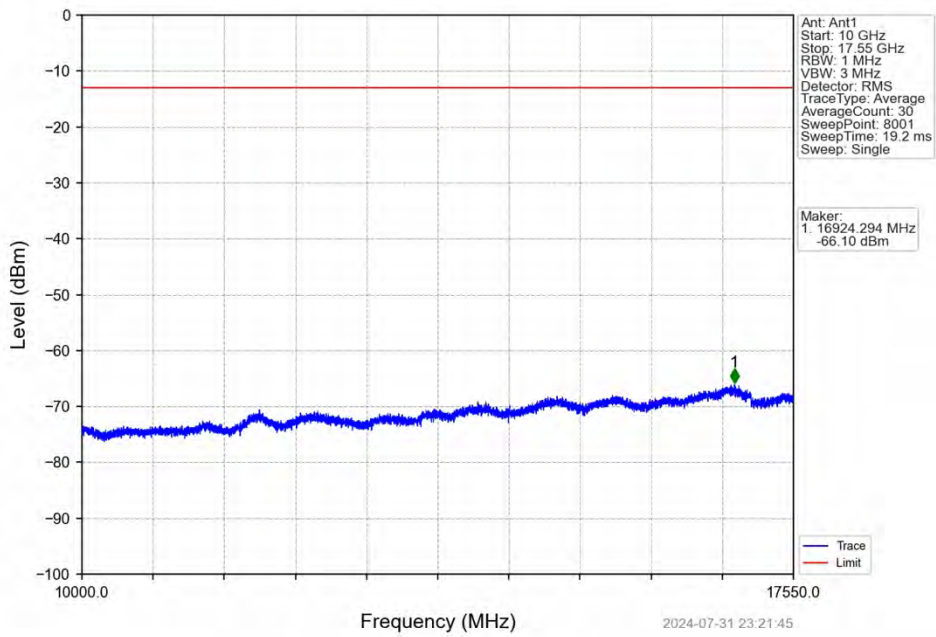
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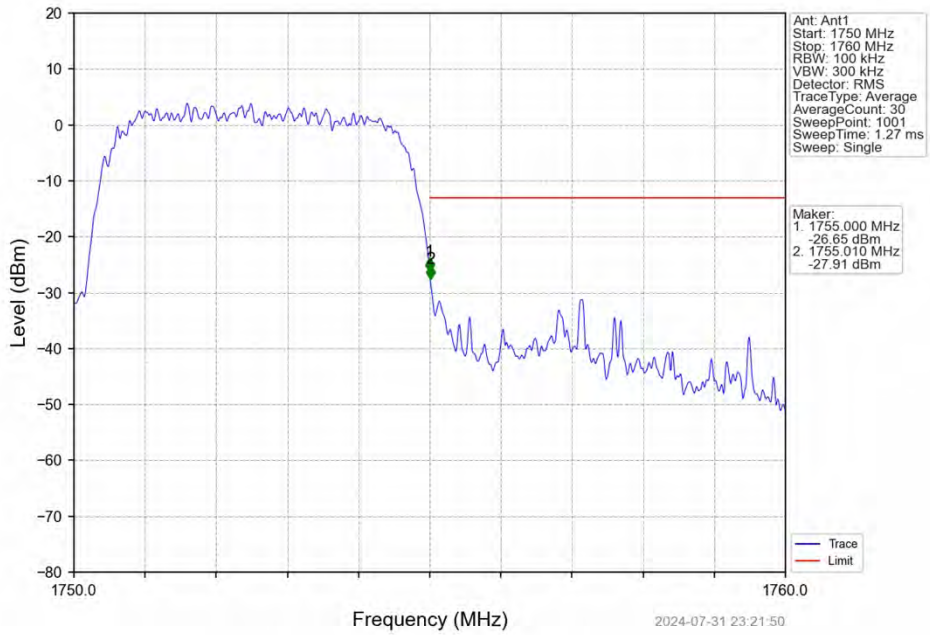
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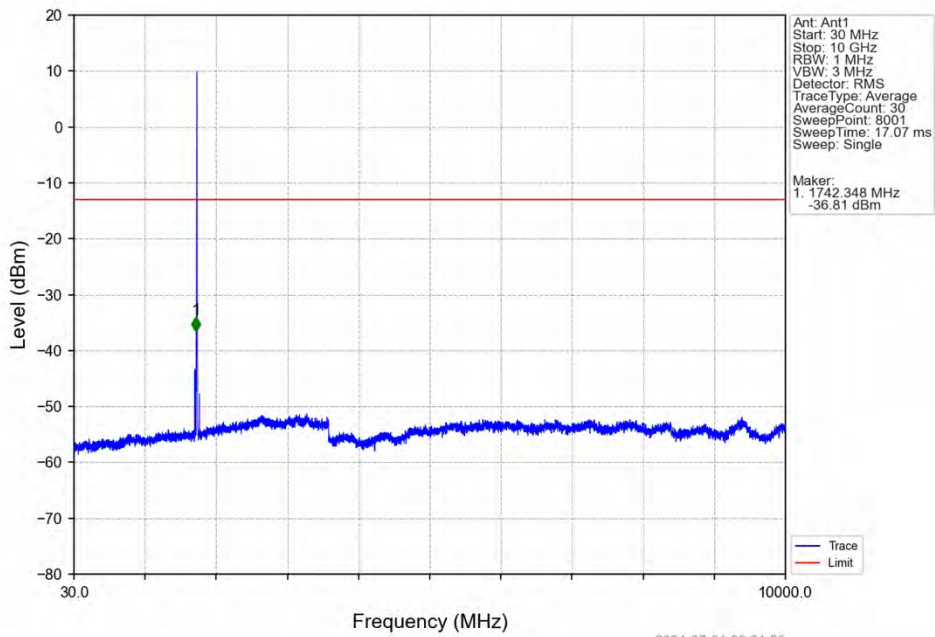
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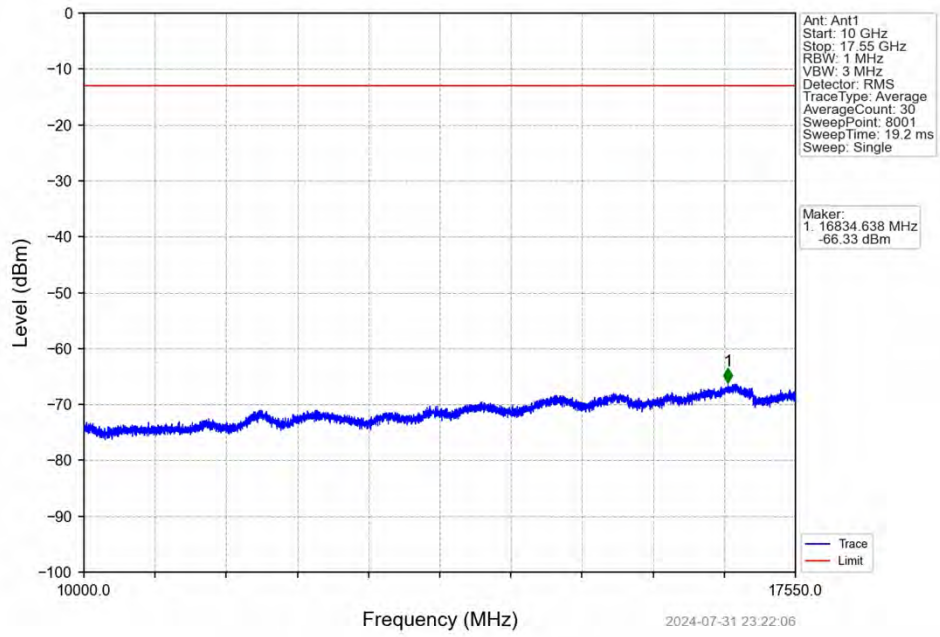
Band4_HSUPA_HCH_1752.6MHz_Subtest 1_NTNV



Band4_HSUPA_HCH_1752.6MHz_Subtest 1_NTNV



Band4_HSUPA_HCH_1752.6MHz_Subtest 1_NTNV



7. Form731

7.1 Test Result

7.1.1 Form731_Power

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	0.1486	0.0114	ppm	4M26F9W	27L	21.72

7.1.2 Form731_EIRP

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	0.1542	0.0114	ppm	4M26F9W	27L	21.88