

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	22.74	0.44	23.18	<=30	Pass		
			1732.6	24.08	0.44	24.52	<=30	Pass		
			1752.6	23.72	0.44	24.16	<=30	Pass		
	HSDPA	Subtest 1-4	1712.4	22.00	0.44	22.44	<=30	Pass		
			1712.4	22.05	0.44	22.49	<=30	Pass		
			1712.4	22.01	0.44	22.45	<=30	Pass		
			1712.4	22.02	0.44	22.46	<=30	Pass		
			1732.6	21.79	0.44	22.23	<=30	Pass		
			1732.6	21.80	0.44	22.24	<=30	Pass		
			1732.6	21.83	0.44	22.27	<=30	Pass		
			1732.6	21.76	0.44	22.20	<=30	Pass		
			1752.6	21.39	0.44	21.83	<=30	Pass		
			1752.6	21.39	0.44	21.83	<=30	Pass		
			1752.6	21.38	0.44	21.82	<=30	Pass		
			1752.6	21.40	0.44	21.84	<=30	Pass		
			HSUPA	Subtest 1-5	1712.4	19.76	0.44	20.20	<=30	Pass
					1712.4	19.44	0.44	19.88	<=30	Pass
					1712.4	19.44	0.44	19.88	<=30	Pass
					1712.4	19.99	0.44	20.43	<=30	Pass
					1712.4	19.47	0.44	19.91	<=30	Pass
	1732.6	19.77			0.44	20.21	<=30	Pass		
	1732.6	19.56			0.44	20.00	<=30	Pass		
	1732.6	19.76			0.44	20.20	<=30	Pass		
	1732.6	19.77			0.44	20.21	<=30	Pass		
	1732.6	19.79			0.44	20.23	<=30	Pass		
	1752.6	19.43			0.44	19.87	<=30	Pass		
	1752.6	19.43			0.44	19.87	<=30	Pass		
	1752.6	18.89			0.44	19.33	<=30	Pass		
	1752.6	19.20			0.44	19.64	<=30	Pass		
	1752.6	18.90			0.44	19.34	<=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	-10.328	-0.0060	-2.5 to 2.5	Pass
			3.85	-9.434	-0.0055	-2.5 to 2.5	Pass
			4.43	-13.254	-0.0077	-2.5 to 2.5	Pass
		-30	3.85	-17.624	-0.0103	-2.5 to 2.5	Pass
		-20	3.85	-12.596	-0.0074	-2.5 to 2.5	Pass
		-10	3.85	-13.225	-0.0077	-2.5 to 2.5	Pass
		0	3.85	-14.520	-0.0085	-2.5 to 2.5	Pass
		10	3.85	-10.736	-0.0063	-2.5 to 2.5	Pass
		30	3.85	-18.625	-0.0109	-2.5 to 2.5	Pass
		40	3.85	-16.944	-0.0099	-2.5 to 2.5	Pass
	50	3.85	-15.256	-0.0089	-2.5 to 2.5	Pass	
	1732.6	20	3.27	-11.008	-0.0064	-2.5 to 2.5	Pass
			3.85	-14.391	-0.0083	-2.5 to 2.5	Pass
			4.43	-17.982	-0.0104	-2.5 to 2.5	Pass
		-30	3.85	-13.332	-0.0077	-2.5 to 2.5	Pass
		-20	3.85	-15.757	-0.0091	-2.5 to 2.5	Pass
		-10	3.85	-13.039	-0.0075	-2.5 to 2.5	Pass
		0	3.85	-16.716	-0.0096	-2.5 to 2.5	Pass
		10	3.85	-13.819	-0.0080	-2.5 to 2.5	Pass
		30	3.85	-11.809	-0.0068	-2.5 to 2.5	Pass
		40	3.85	-17.016	-0.0098	-2.5 to 2.5	Pass
	50	3.85	-17.109	-0.0099	-2.5 to 2.5	Pass	
	1752.6	20	3.27	-11.194	-0.0064	-2.5 to 2.5	Pass
			3.85	-9.041	-0.0052	-2.5 to 2.5	Pass
			4.43	-9.098	-0.0052	-2.5 to 2.5	Pass
		-30	3.85	-13.783	-0.0079	-2.5 to 2.5	Pass
		-20	3.85	-10.335	-0.0059	-2.5 to 2.5	Pass
		-10	3.85	-14.055	-0.0080	-2.5 to 2.5	Pass
		0	3.85	-8.125	-0.0046	-2.5 to 2.5	Pass
		10	3.85	-11.301	-0.0064	-2.5 to 2.5	Pass
30		3.85	-8.612	-0.0049	-2.5 to 2.5	Pass	
40		3.85	-7.911	-0.0045	-2.5 to 2.5	Pass	
50	3.85	-7.739	-0.0044	-2.5 to 2.5	Pass		
HSDPA	1712.4	20	3.27	-13.661	-0.0080	-2.5 to 2.5	Pass
			3.85	-13.275	-0.0078	-2.5 to 2.5	Pass
			4.43	-9.212	-0.0054	-2.5 to 2.5	Pass
		-30	3.85	-11.287	-0.0066	-2.5 to 2.5	Pass
		-20	3.85	-16.143	-0.0094	-2.5 to 2.5	Pass
		-10	3.85	-10.686	-0.0062	-2.5 to 2.5	Pass
		0	3.85	-14.534	-0.0085	-2.5 to 2.5	Pass
		10	3.85	-15.428	-0.0090	-2.5 to 2.5	Pass
		30	3.85	-8.283	-0.0048	-2.5 to 2.5	Pass
		40	3.85	-10.593	-0.0062	-2.5 to 2.5	Pass
	50	3.85	-10.285	-0.0060	-2.5 to 2.5	Pass	
	1732.6	20	3.27	-13.955	-0.0081	-2.5 to 2.5	Pass
			3.85	-11.673	-0.0067	-2.5 to 2.5	Pass
			4.43	-11.044	-0.0064	-2.5 to 2.5	Pass
		-30	3.85	-9.942	-0.0057	-2.5 to 2.5	Pass
		-20	3.85	-12.732	-0.0073	-2.5 to 2.5	Pass
		-10	3.85	-12.224	-0.0071	-2.5 to 2.5	Pass
		0	3.85	-12.882	-0.0074	-2.5 to 2.5	Pass
		10	3.85	-12.095	-0.0070	-2.5 to 2.5	Pass
		30	3.85	-13.118	-0.0076	-2.5 to 2.5	Pass
40		3.85	-9.921	-0.0057	-2.5 to 2.5	Pass	
50	3.85	-9.577	-0.0055	-2.5 to 2.5	Pass		

	1752.6	20	3.27	-4.649	-0.0027	-2.5 to 2.5	Pass
			3.85	-7.553	-0.0043	-2.5 to 2.5	Pass
			4.43	-12.581	-0.0072	-2.5 to 2.5	Pass
		-30	3.85	-12.081	-0.0069	-2.5 to 2.5	Pass
		-20	3.85	-8.934	-0.0051	-2.5 to 2.5	Pass
		-10	3.85	-12.295	-0.0070	-2.5 to 2.5	Pass
		0	3.85	-12.124	-0.0069	-2.5 to 2.5	Pass
		10	3.85	-9.692	-0.0055	-2.5 to 2.5	Pass
		30	3.85	-8.461	-0.0048	-2.5 to 2.5	Pass
		40	3.85	-12.553	-0.0072	-2.5 to 2.5	Pass
50	3.85	-7.796	-0.0044	-2.5 to 2.5	Pass		
HSUPA	1712.4	20	3.27	-16.487	-0.0096	-2.5 to 2.5	Pass
			3.85	-17.967	-0.0105	-2.5 to 2.5	Pass
			4.43	-13.754	-0.0080	-2.5 to 2.5	Pass
		-30	3.85	-15.771	-0.0092	-2.5 to 2.5	Pass
		-20	3.85	-14.863	-0.0087	-2.5 to 2.5	Pass
		-10	3.85	-16.980	-0.0099	-2.5 to 2.5	Pass
		0	3.85	-12.267	-0.0072	-2.5 to 2.5	Pass
		10	3.85	-12.460	-0.0073	-2.5 to 2.5	Pass
		30	3.85	-10.922	-0.0064	-2.5 to 2.5	Pass
		40	3.85	-9.477	-0.0055	-2.5 to 2.5	Pass
	50	3.85	-17.159	-0.0100	-2.5 to 2.5	Pass	
	1732.6	20	3.27	-13.433	-0.0078	-2.5 to 2.5	Pass
			3.85	-12.817	-0.0074	-2.5 to 2.5	Pass
			4.43	-14.720	-0.0085	-2.5 to 2.5	Pass
		-30	3.85	-14.176	-0.0082	-2.5 to 2.5	Pass
		-20	3.85	-17.002	-0.0098	-2.5 to 2.5	Pass
		-10	3.85	-14.677	-0.0085	-2.5 to 2.5	Pass
		0	3.85	-18.311	-0.0106	-2.5 to 2.5	Pass
		10	3.85	-14.141	-0.0082	-2.5 to 2.5	Pass
		30	3.85	-17.502	-0.0101	-2.5 to 2.5	Pass
		40	3.85	-13.518	-0.0078	-2.5 to 2.5	Pass
	50	3.85	-17.724	-0.0102	-2.5 to 2.5	Pass	
	1752.6	20	3.27	-10.636	-0.0061	-2.5 to 2.5	Pass
			3.85	-9.384	-0.0054	-2.5 to 2.5	Pass
			4.43	-13.847	-0.0079	-2.5 to 2.5	Pass
		-30	3.85	-8.318	-0.0047	-2.5 to 2.5	Pass
		-20	3.85	-15.578	-0.0089	-2.5 to 2.5	Pass
		-10	3.85	-13.182	-0.0075	-2.5 to 2.5	Pass
		0	3.85	-12.252	-0.0070	-2.5 to 2.5	Pass
		10	3.85	-7.703	-0.0044	-2.5 to 2.5	Pass
30		3.85	-9.570	-0.0055	-2.5 to 2.5	Pass	
40		3.85	-9.162	-0.0052	-2.5 to 2.5	Pass	
50	3.85	-10.378	-0.0059	-2.5 to 2.5	Pass		

3. Modulation Characteristics

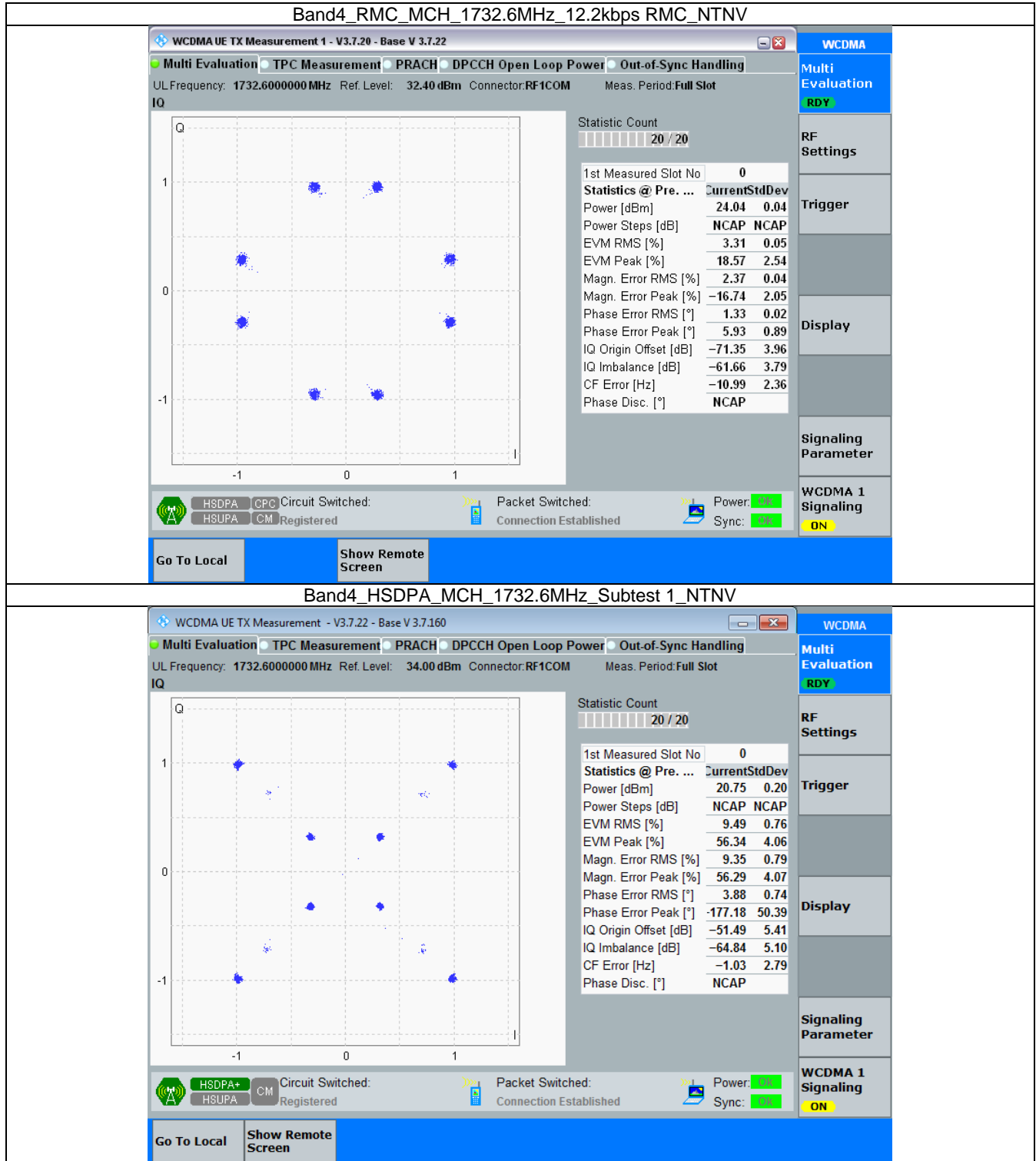
3.1 Band4

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



Band4_HSUPA_MCH_1732.6MHz_Subtest 1_NTNV

WCDMA UE TX Measurement 1 - V3.7.20 - Base V 3.7.22

UL Frequency: 1732.600000 MHz Ref. Level: 16.80 dBm Connector: RF1COM Meas. Period: Full Slot

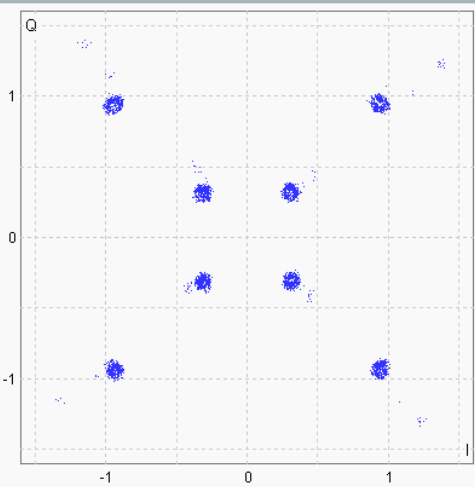
WCDMA

Multi Evaluation

RDY

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

IQ



Statistic Count

20 / 20

1st Measured Slot No	0
Statistics @ Pre. ...	CurrentStdDev
Power [dBm]	0.92 3.12
Power Steps [dB]	NCAP NCAP
EVM RMS [%]	4.98 3.30
EVM Peak [%]	14.31 36.94
Magn. Error RMS [%]	3.78 3.64
Magn. Error Peak [%]	-14.27 37.49
Phase Error RMS [°]	3.00 0.58
Phase Error Peak [°]	10.59 3.29
IQ Origin Offset [dB]	-44.43 1.68
IQ Imbalance [dB]	-62.30 3.71
CF Error [Hz]	-15.72 3.13
Phase Disc. [°]	NCAP

RF Settings

Trigger

Display

Signaling Parameter

WCDMA 1 Signaling ON

HSDPA+ CPC Circuit Switched: HSDPA CM Registered

Packet Switched: Connection Established

Power: Sync:

Go To Local

Show Remote Screen

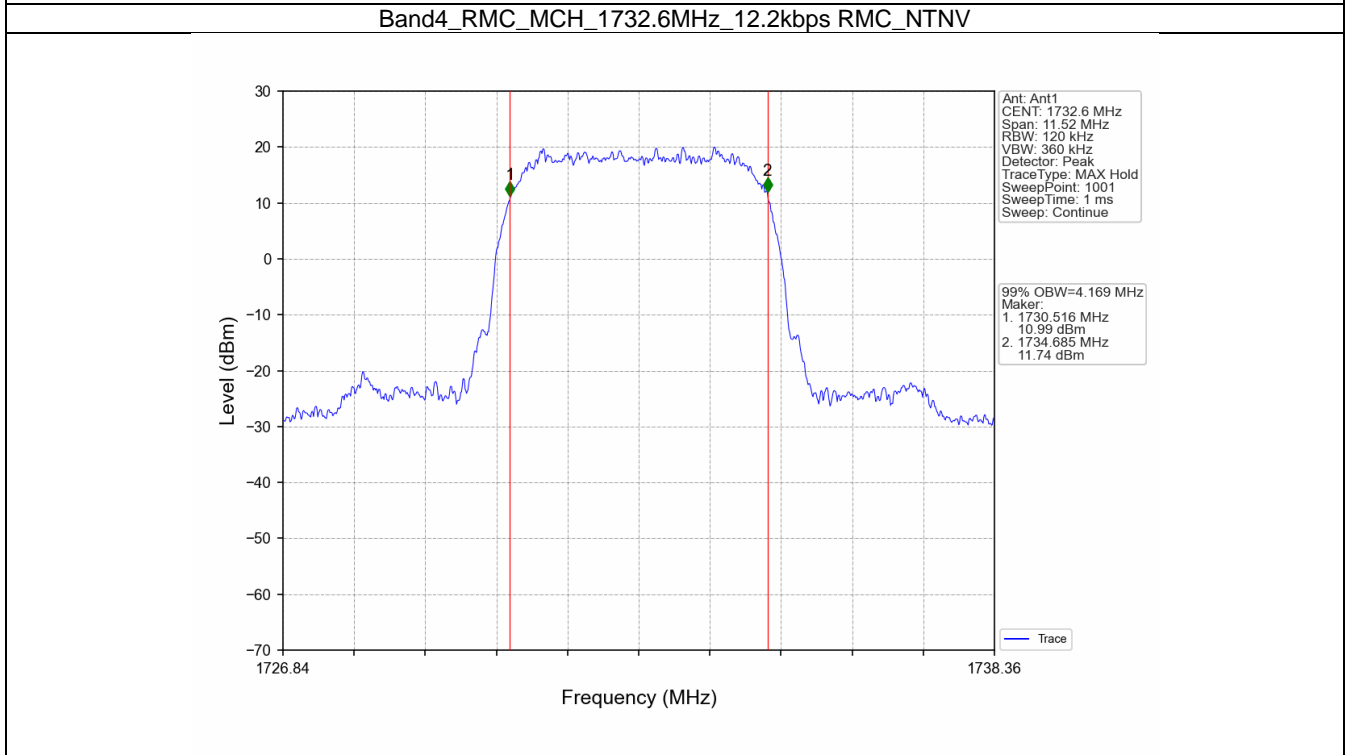
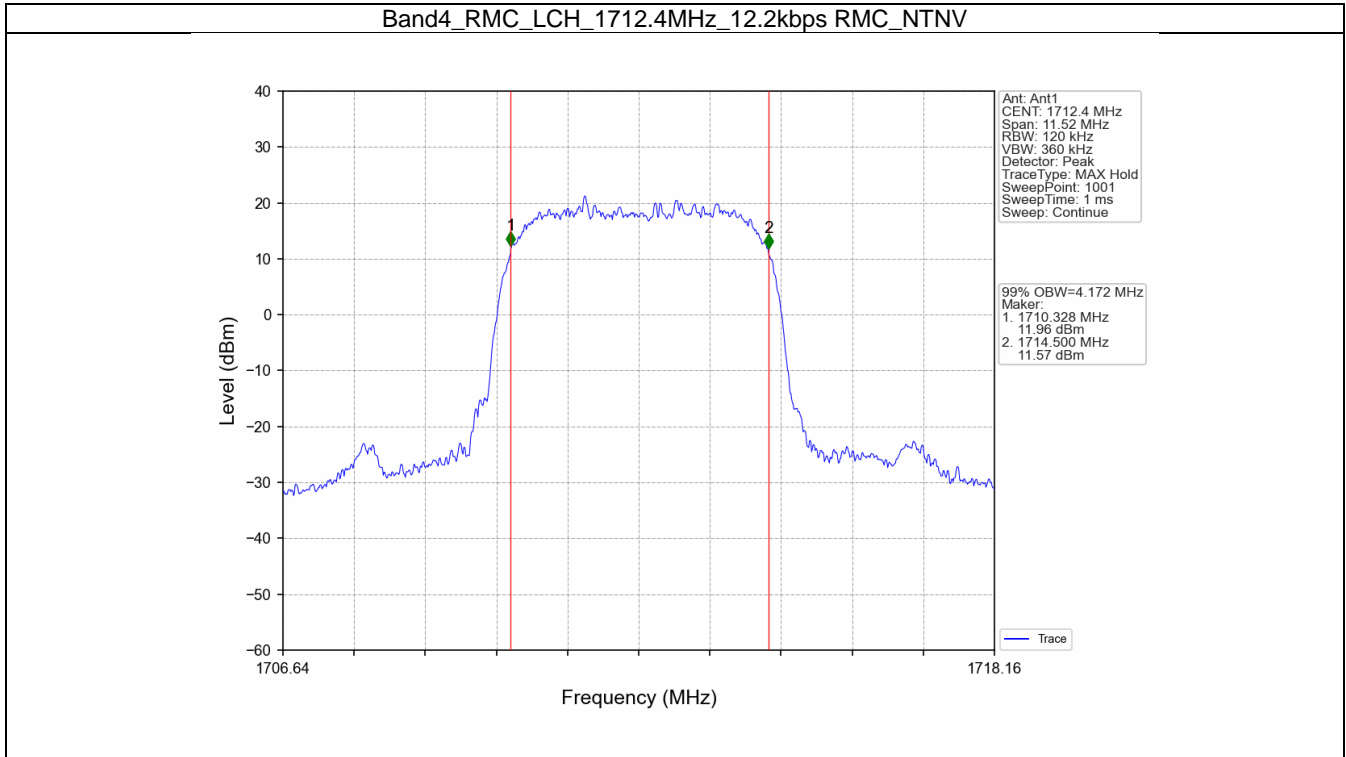
4. 99% & 26dB Bandwidth

4.1 Band4_OBW

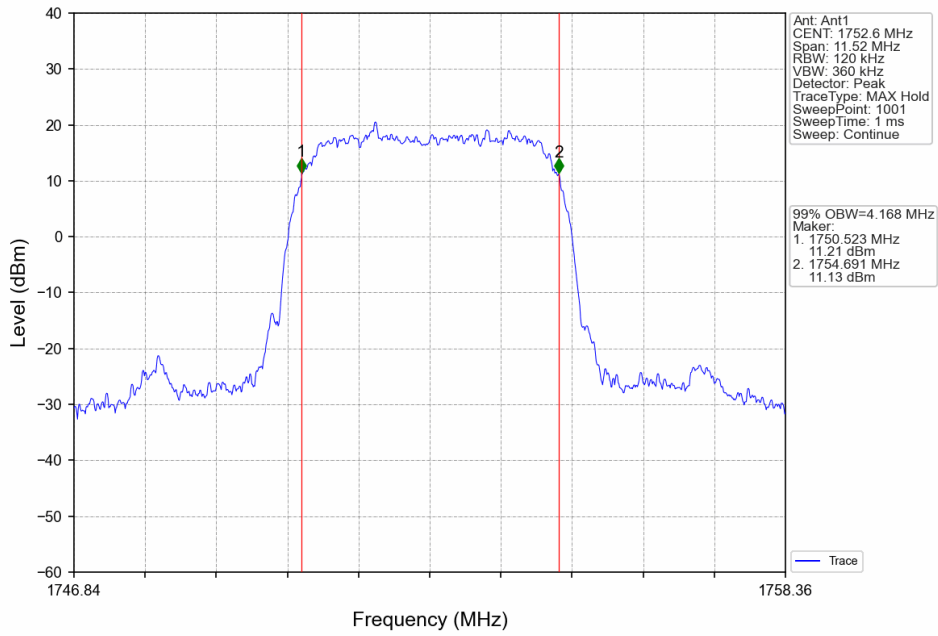
4.1.1 Test Result

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	4.169	Pass
			1752.6	4.168	Pass
	HSDPA	Subtest 1	1712.4	4.235	Pass
			1732.6	4.237	Pass
			1752.6	4.201	Pass
	HSUPA	Subtest 1	1712.4	4.254	Pass
			1732.6	4.256	Pass
			1752.6	4.206	Pass

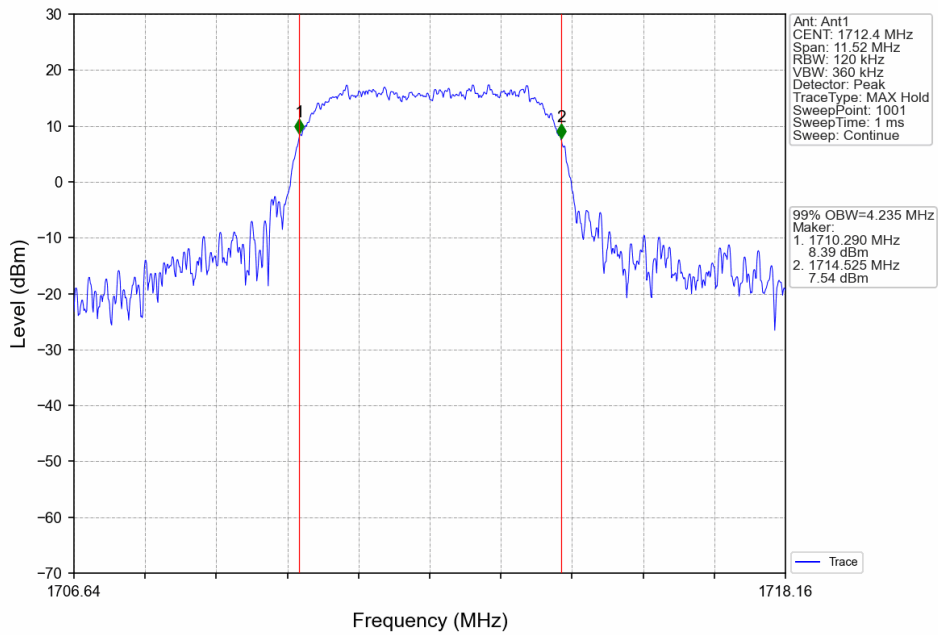
4.1.2 Test Graph



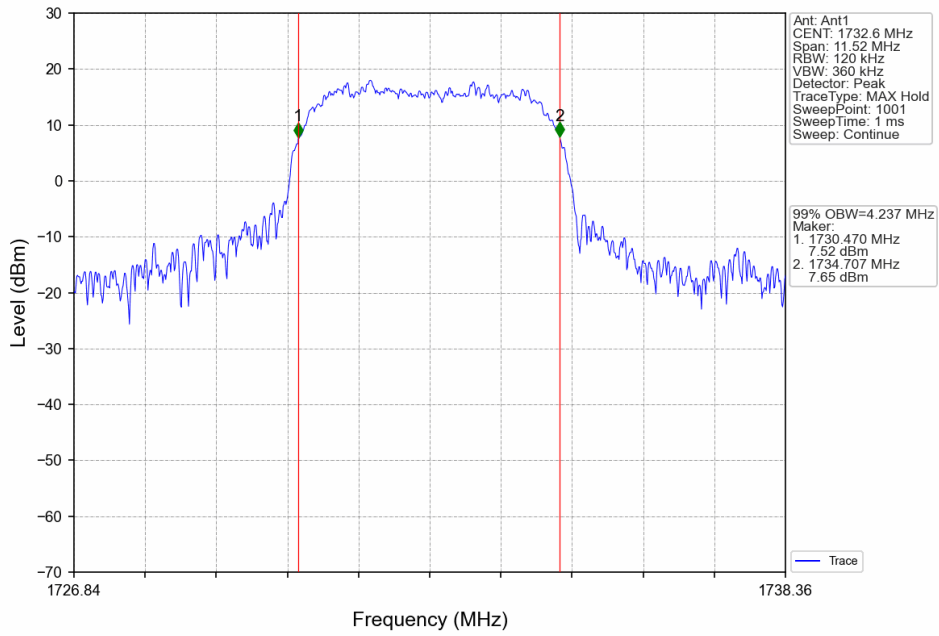
Band4_RMC_HCH_1752.6MHz_12.2kbps RMC_NTNV



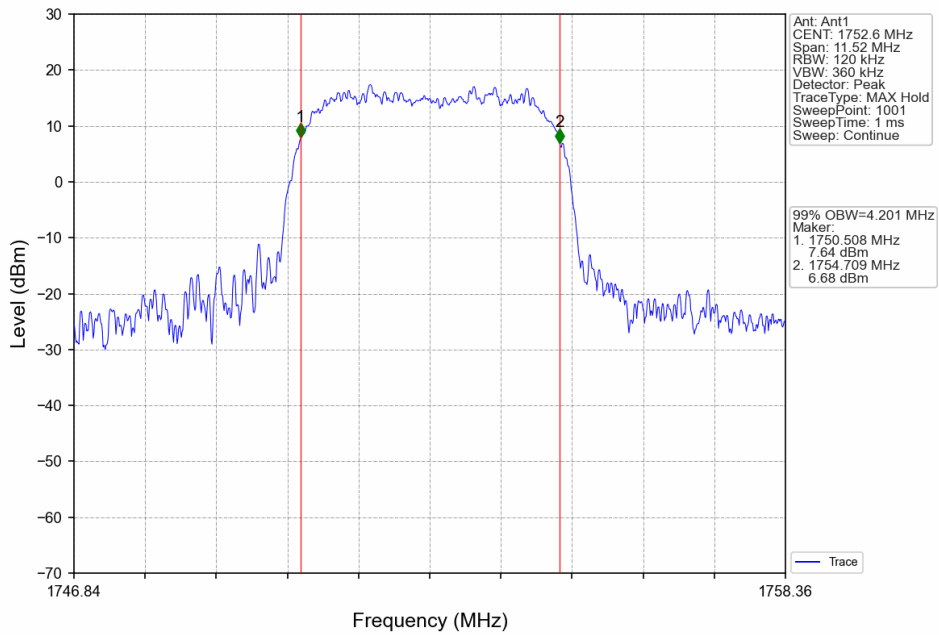
Band4_HSDPA_LCH_1712.4MHz_Subtest 1_NTNV



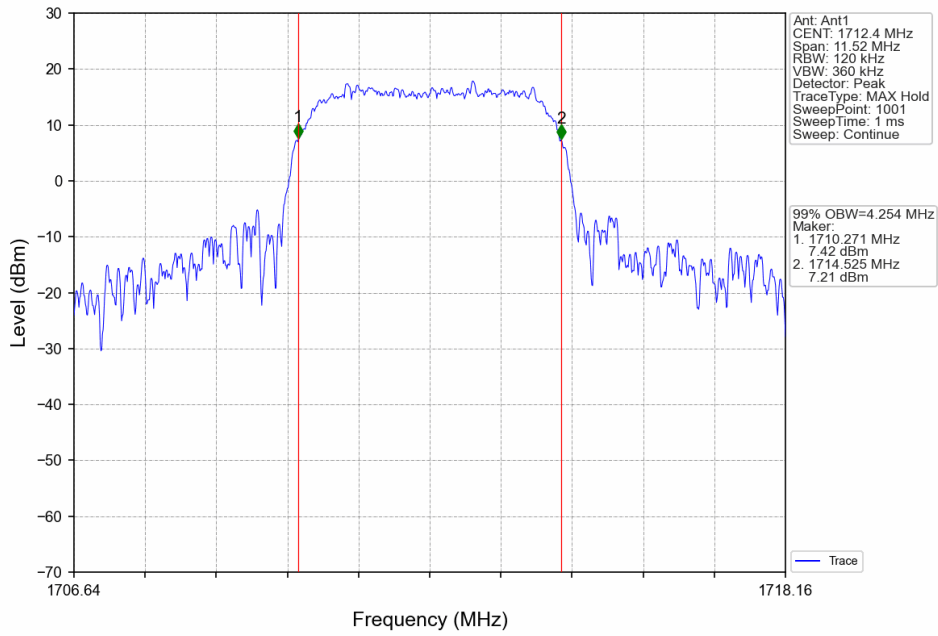
Band4_HSDPA_MCH_1732.6MHz_Subtest 1_NTNV



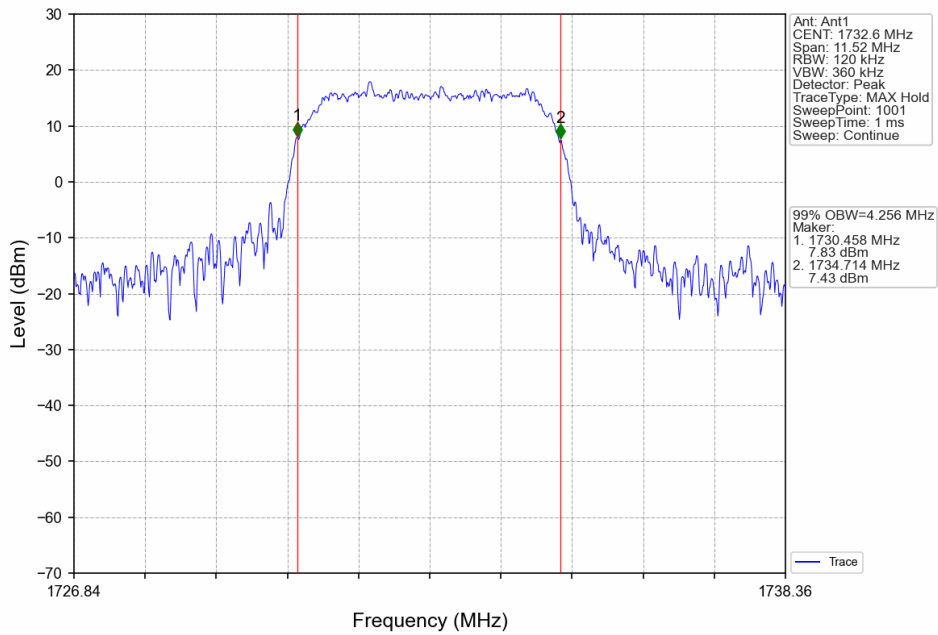
Band4_HSDPA_HCH_1752.6MHz_Subtest 1_NTNV



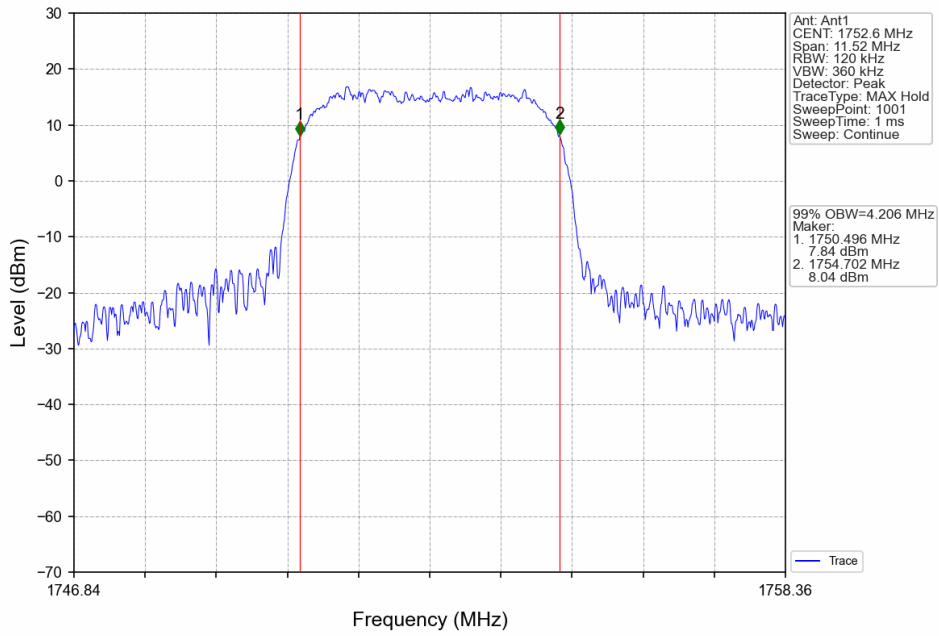
Band4_HSUPA_LCH_1712.4MHz_Subtest 1_NTNV



Band4_HSUPA_MCH_1732.6MHz_Subtest 1_NTNV



Band4_HSUPA_HCH_1752.6MHz_Subtest 1_NTNV

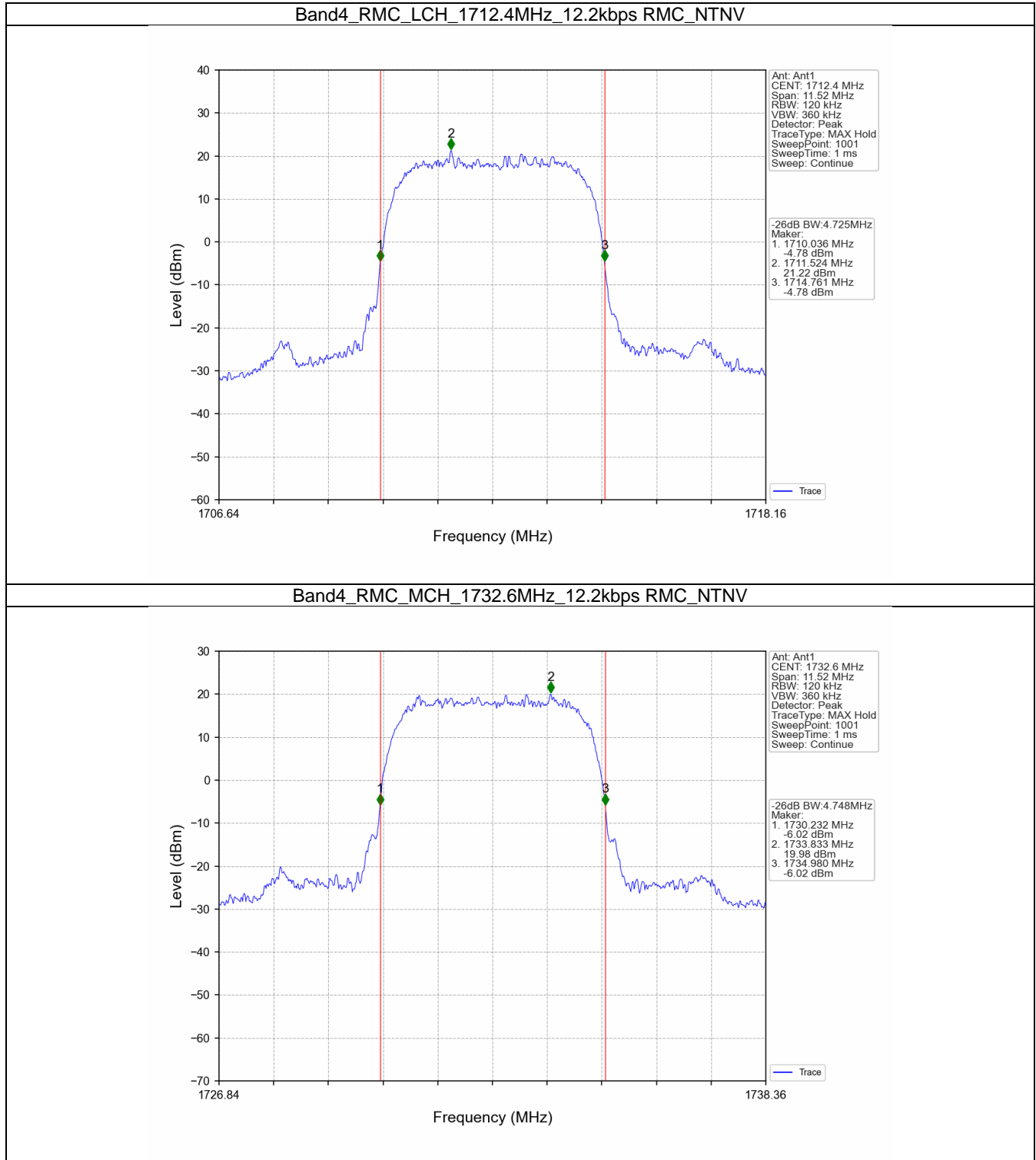


4.2 Band4_XDB

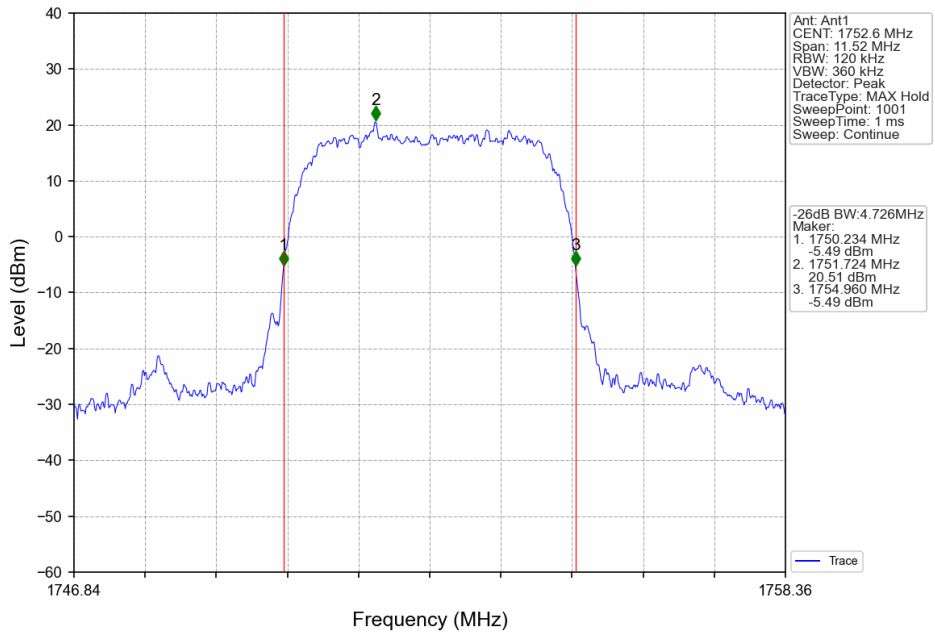
4.2.1 Test Result

Band: 4					
ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)	Verdict
	Network	Subset		Result	
NTNV	RMC	12.2kbps RMC	1712.4	4.725	Pass
			1732.6	4.748	Pass
			1752.6	4.726	Pass
	HSDPA	Subtest 1	1712.4	5.694	Pass
			1732.6	5.664	Pass
			1752.6	4.748	Pass
	HSUPA	Subtest 1	1712.4	6.230	Pass
			1732.6	5.691	Pass
			1752.6	4.765	Pass

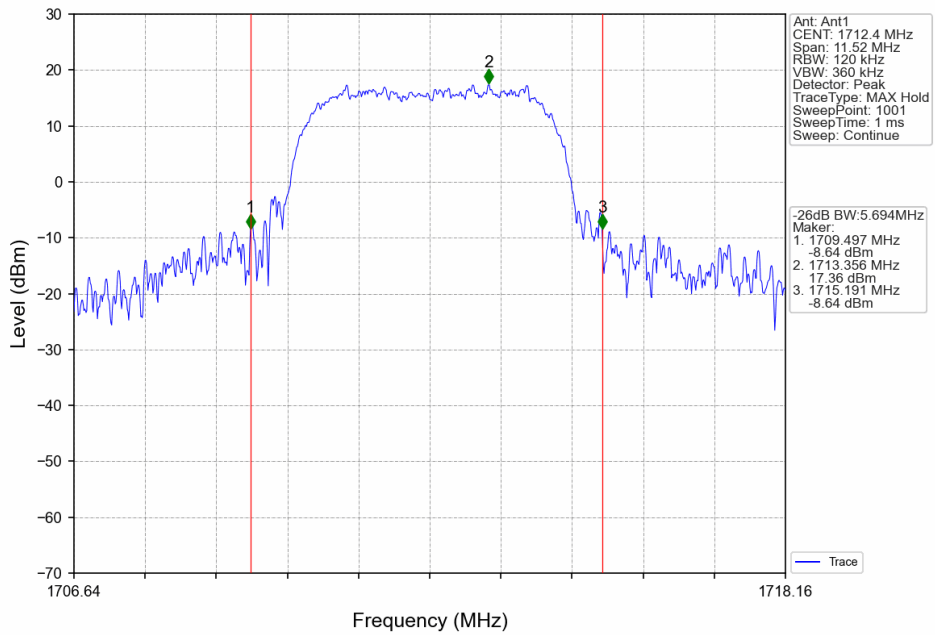
4.2.2 Test Graph



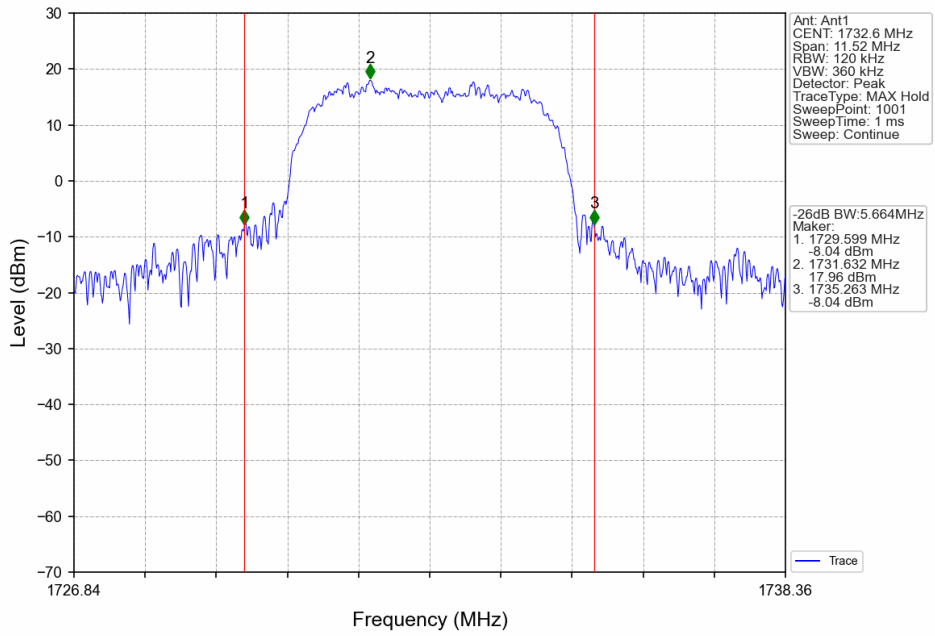
Band4_RMC_HCH_1752.6MHz_12.2kbps RMC_NTNV



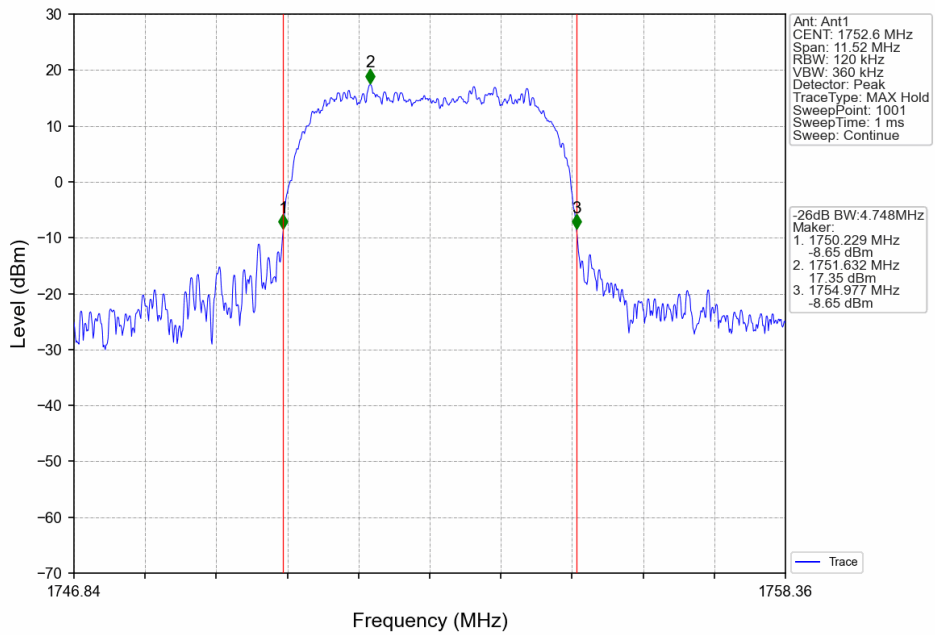
Band4_HSDPA_LCH_1712.4MHz_Subtest 1_NTNV



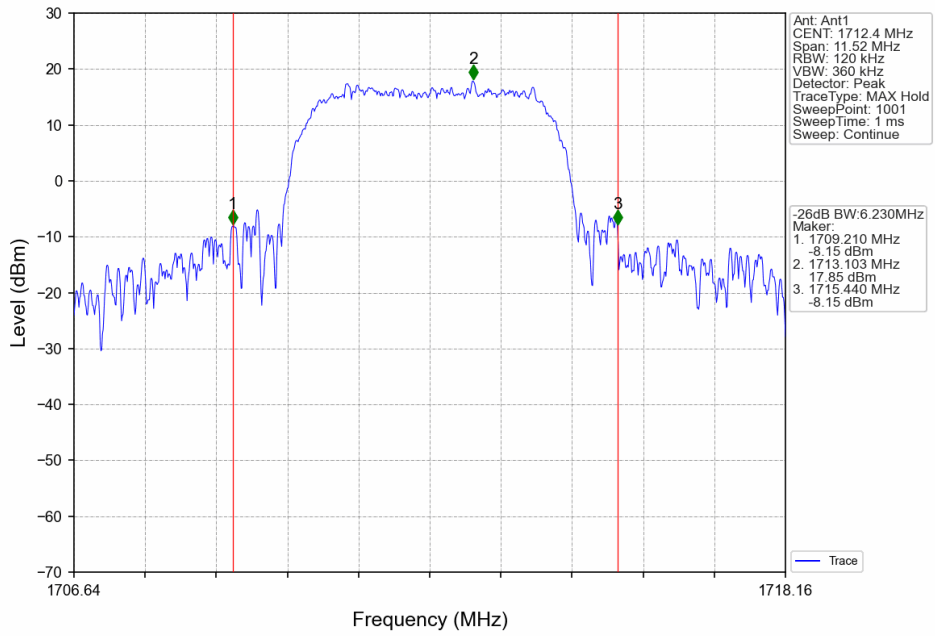
Band4_HSDPA_MCH_1732.6MHz_Subtest 1_NTNV



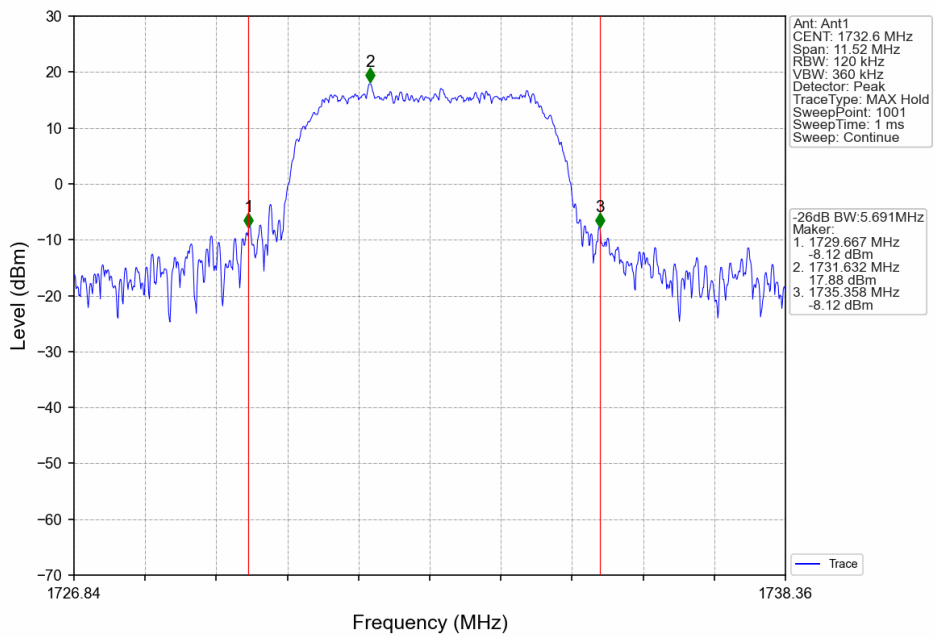
Band4_HSDPA_HCH_1752.6MHz_Subtest 1_NTNV



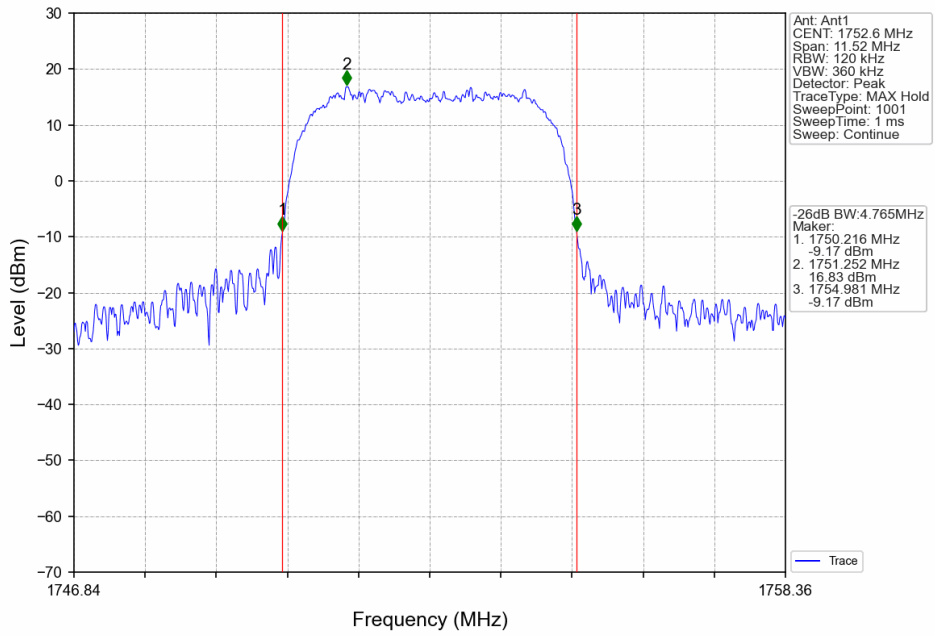
Band4_HSUPA_LCH_1712.4MHz_Subtest 1_NTNV



Band4_HSUPA_MCH_1732.6MHz_Subtest 1_NTNV



Band4_HSUPA_HCH_1752.6MHz_Subtest 1_NTNV



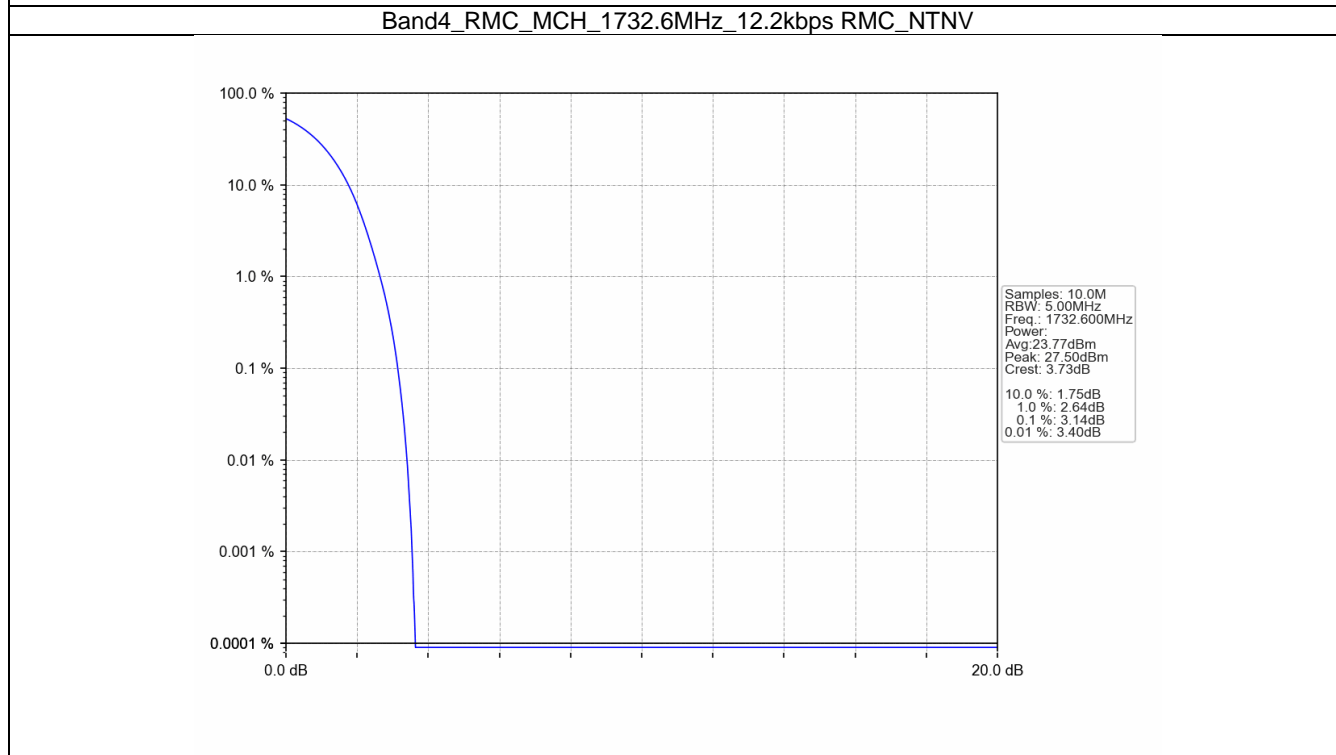
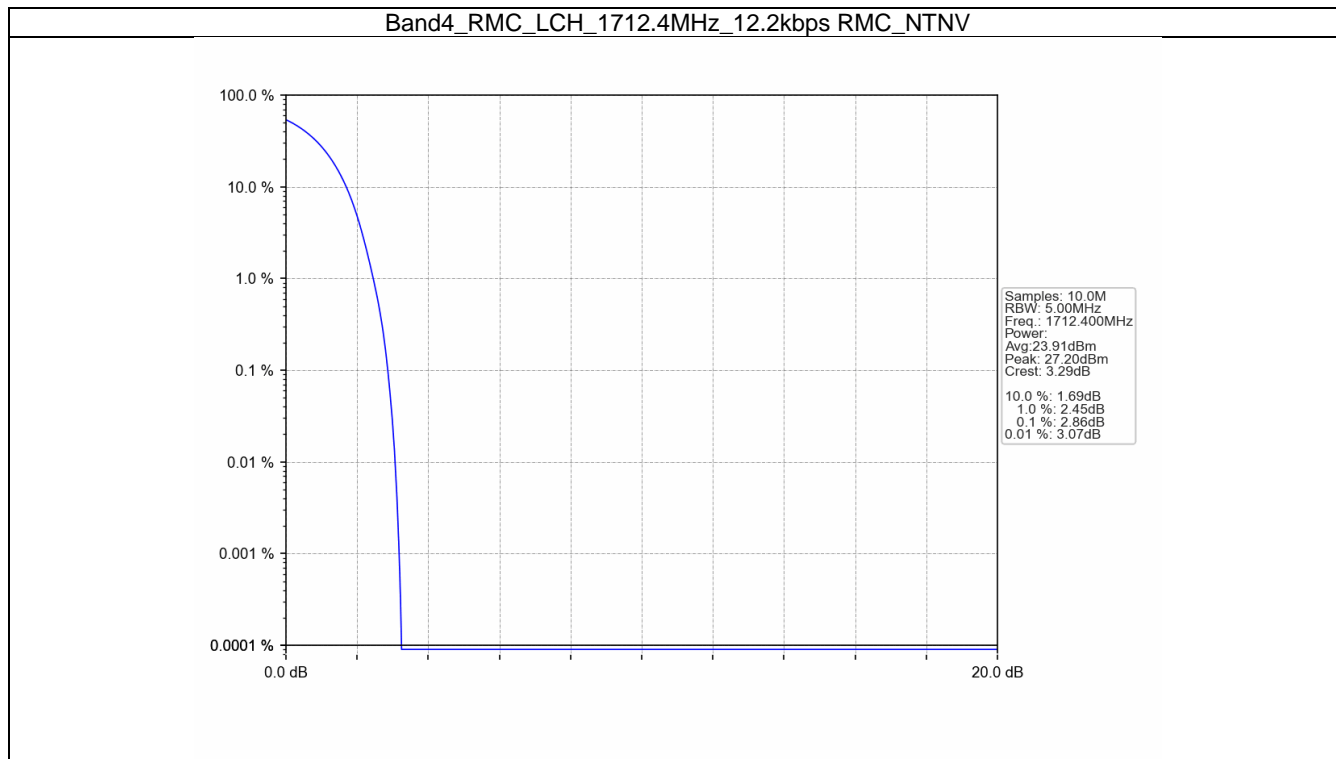
5. Peak-Average Ratio

5.1 Band4

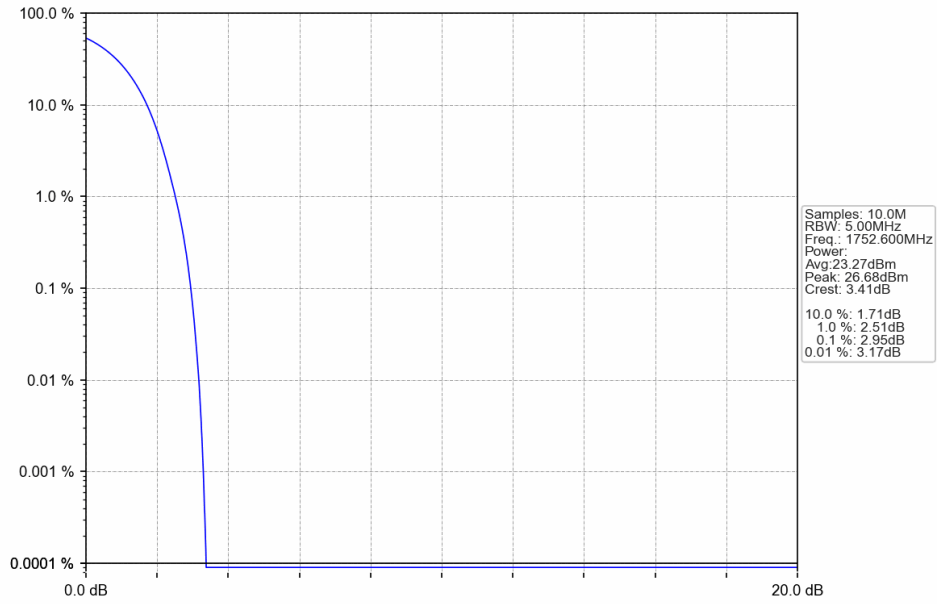
5.1.1 Test Result

Band: 4						
ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1712.4	2.86	<=13	Pass
			1732.6	3.14	<=13	Pass
			1752.6	2.95	<=13	Pass
	HSDPA	Subtest 1	1712.4	6.03	<=13	Pass
			1732.6	6.00	<=13	Pass
			1752.6	5.94	<=13	Pass
	HSUPA	Subtest 1	1712.4	5.93	<=13	Pass
			1732.6	6.04	<=13	Pass
			1752.6	5.96	<=13	Pass

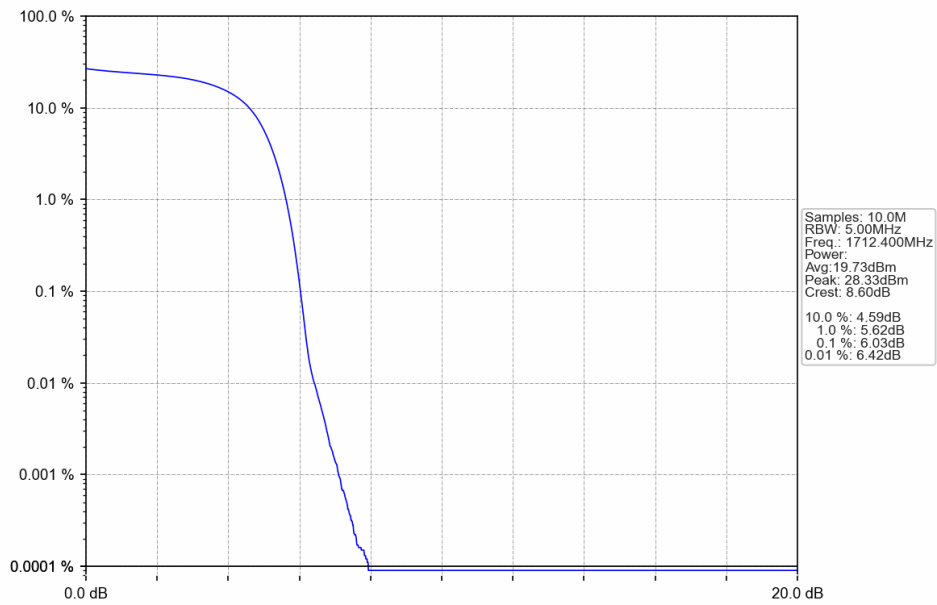
5.1.2 Test Graph



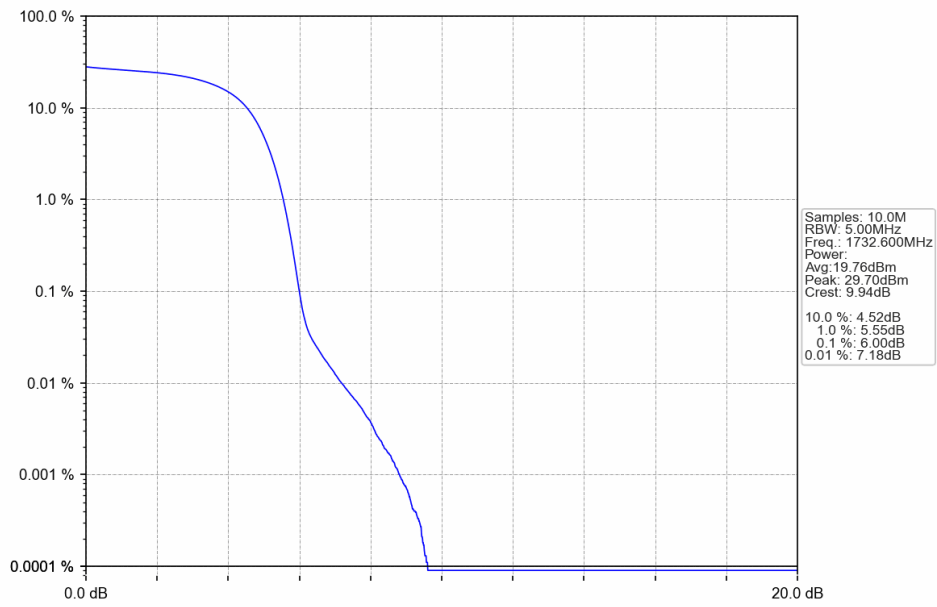
Band4_RMC_HCH_1752.6MHz_12.2kbps RMC_NTNV



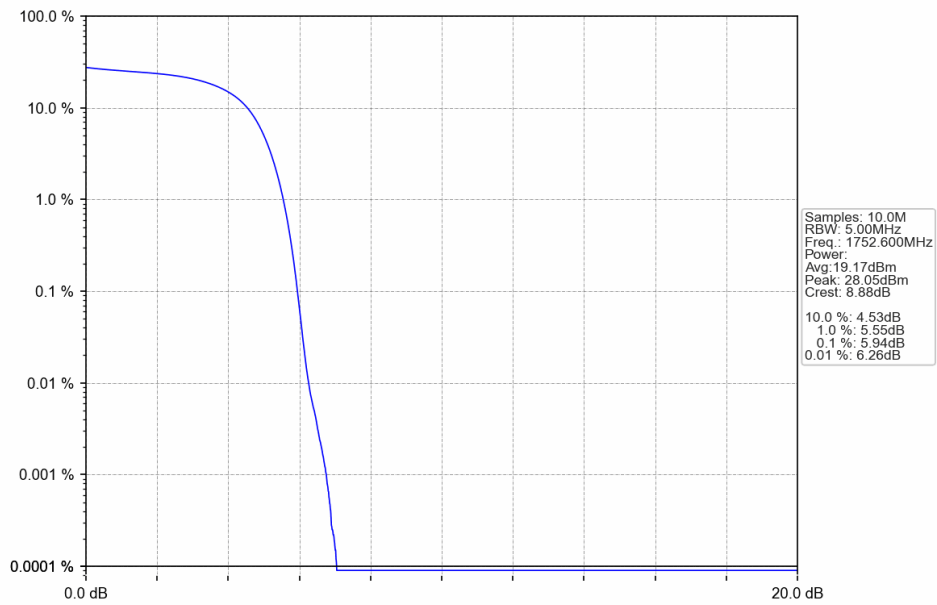
Band4_HSDPA_LCH_1712.4MHz_Subtest 1_NTNV



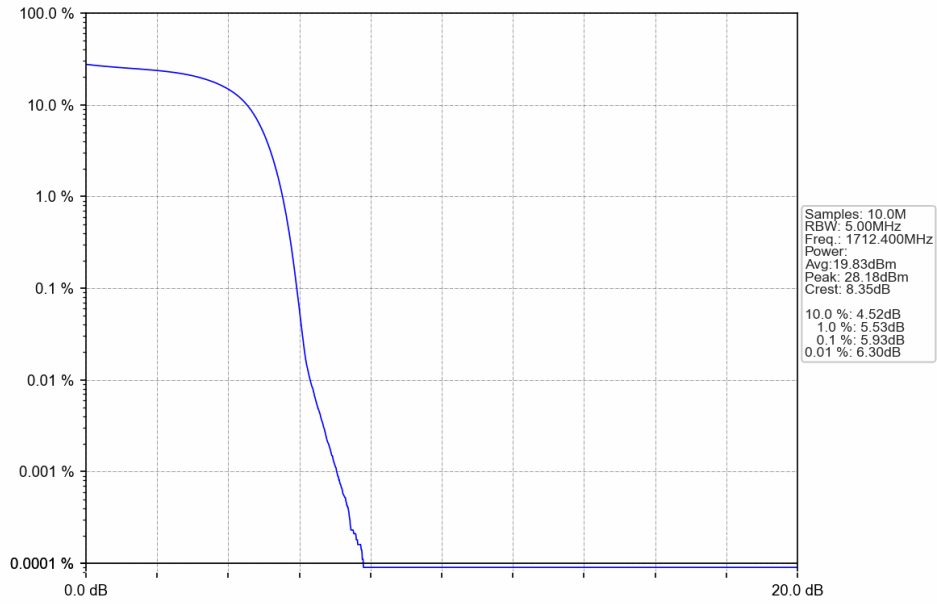
Band4_HSDPA_MCH_1732.6MHz_Subtest 1_NTNV



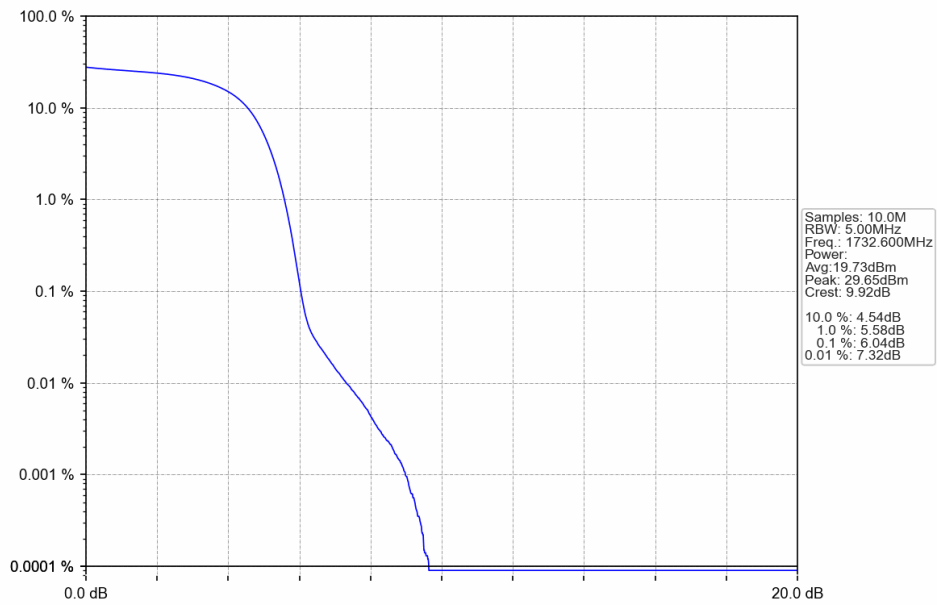
Band4_HSDPA_HCH_1752.6MHz_Subtest 1_NTNV



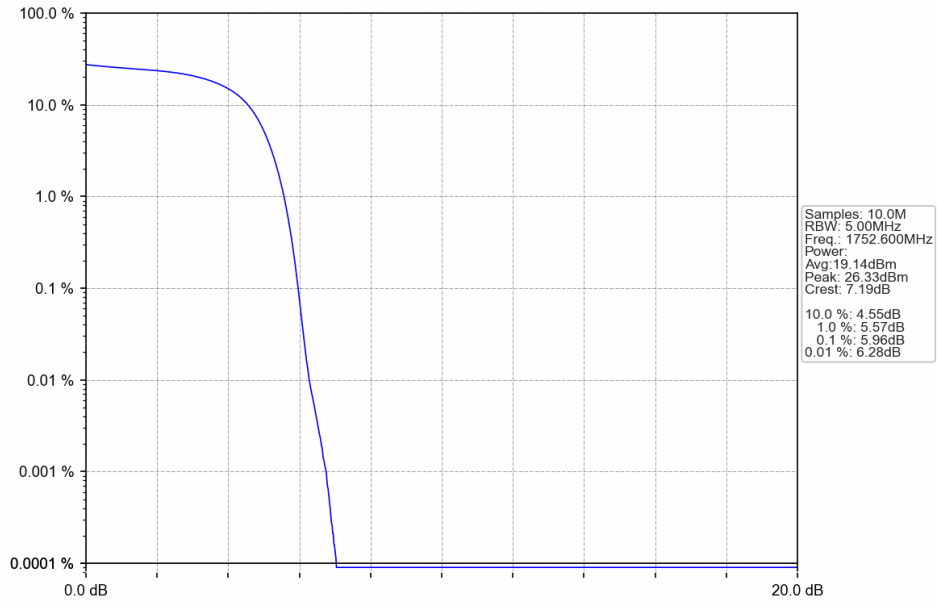
Band4_HSUPA_LCH_1712.4MHz_Subtest 1_NTNV



Band4_HSUPA_MCH_1732.6MHz_Subtest 1_NTNV



Band4_HSUPA_HCH_1752.6MHz_Subtest 1_NTNV



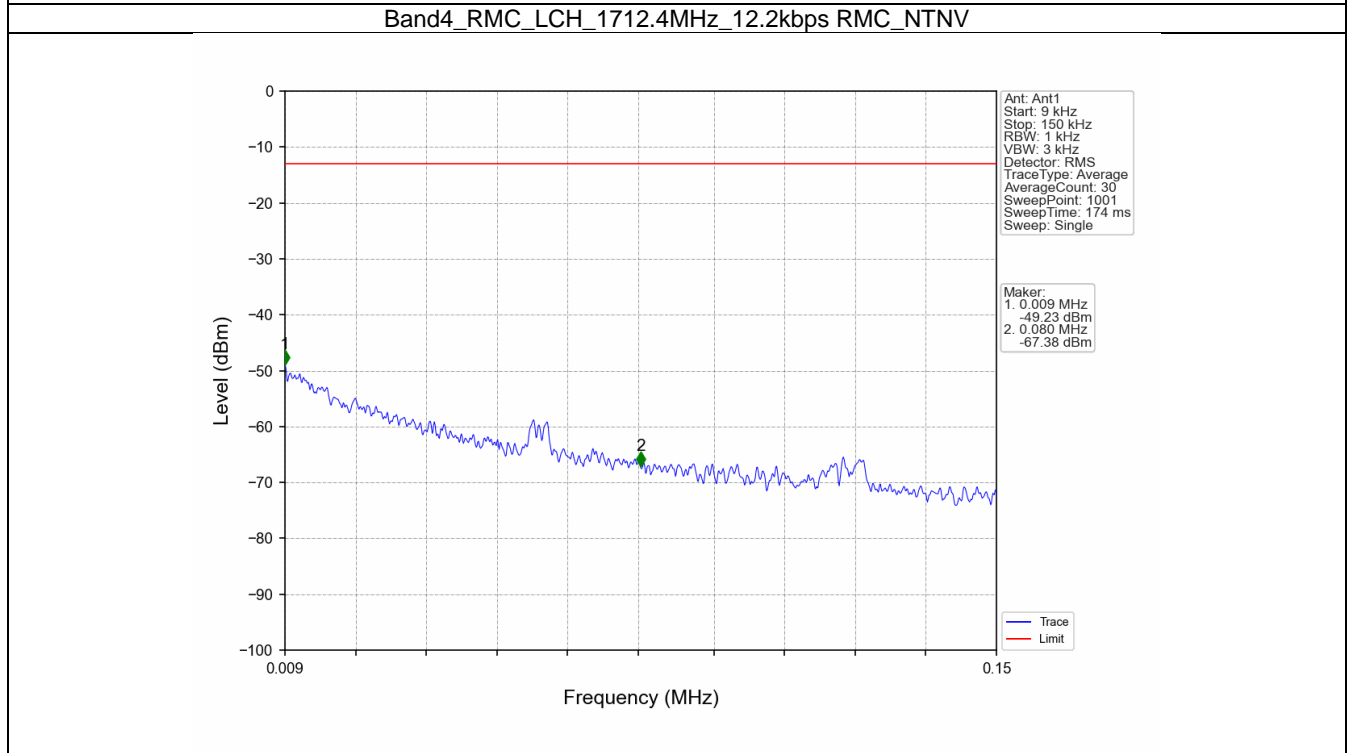
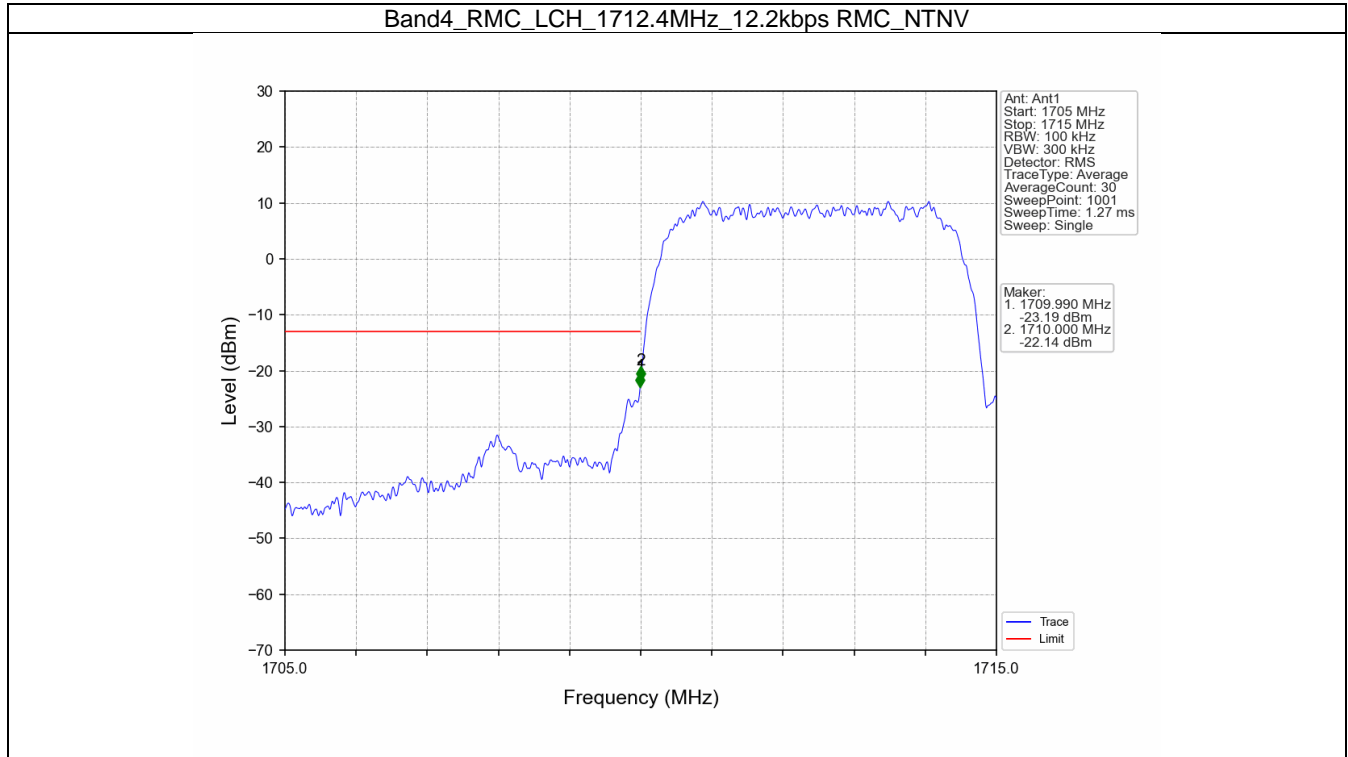
6. Spurious Emission

6.1 Band4

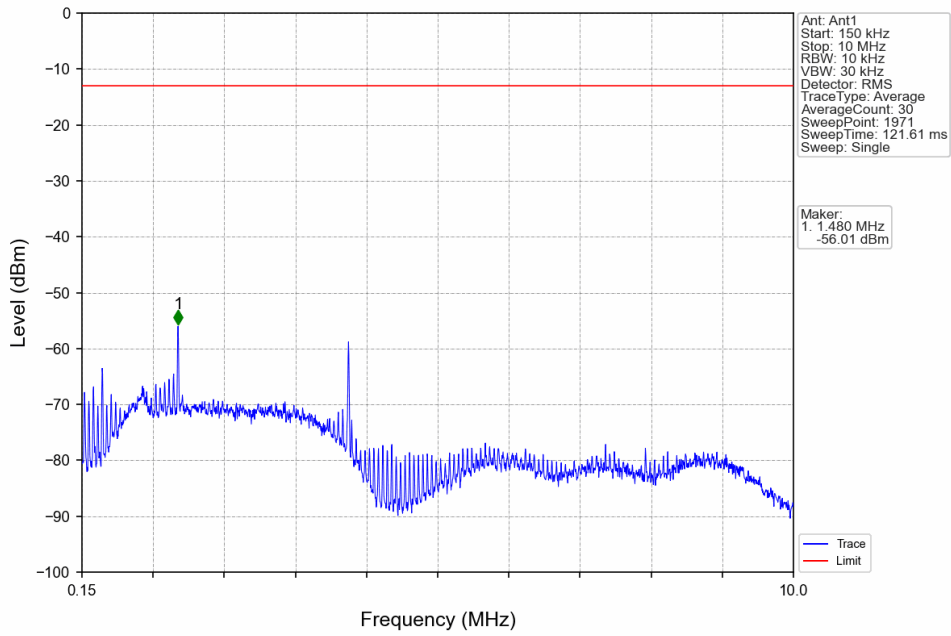
6.1.1 Test Result

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

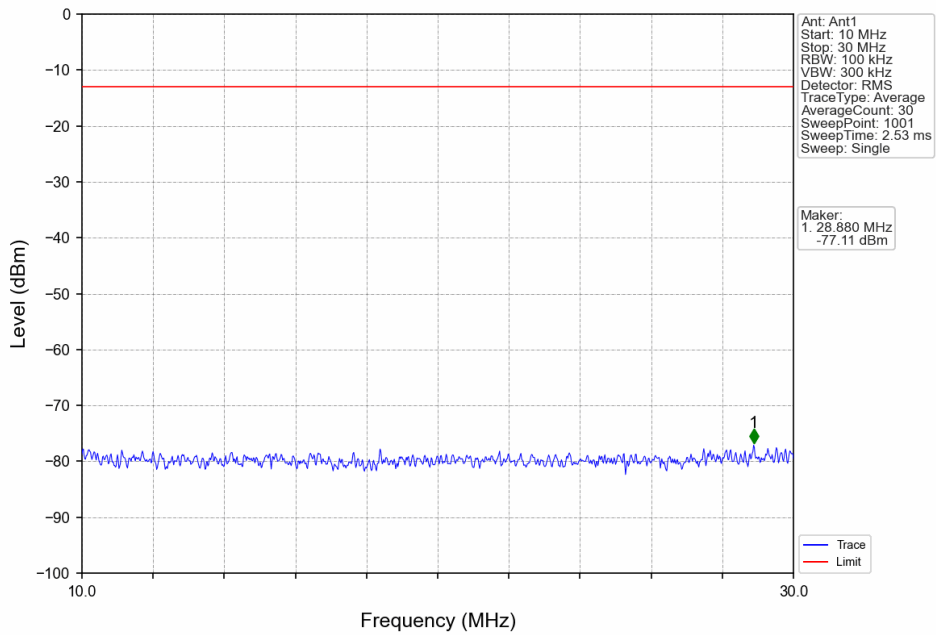
6.1.2 Test Graph



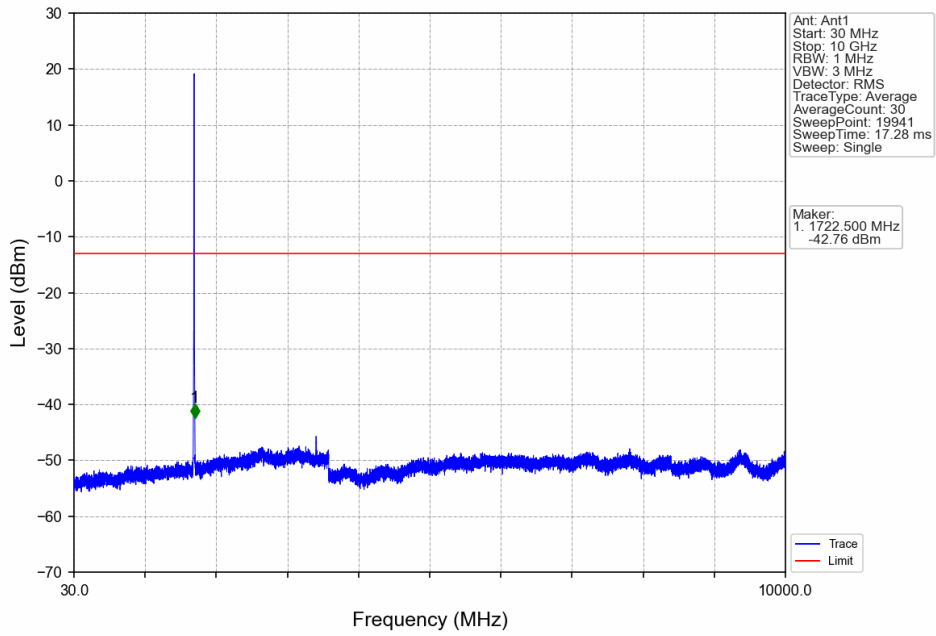
Band4_RMC_LCH_1712.4MHz_12.2kbps RMC_NTNV



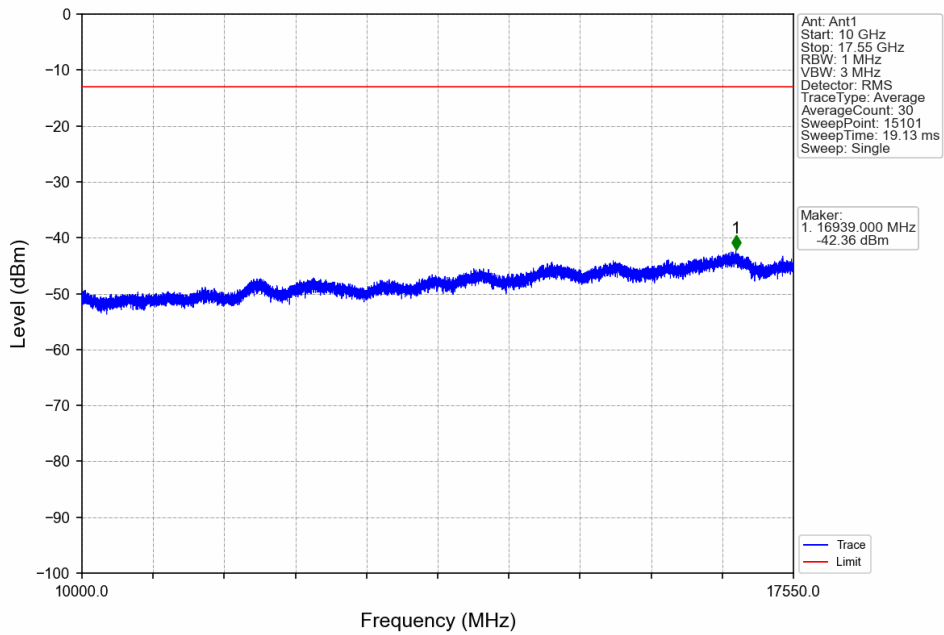
Band4_RMC_LCH_1712.4MHz_12.2kbps RMC_NTNV



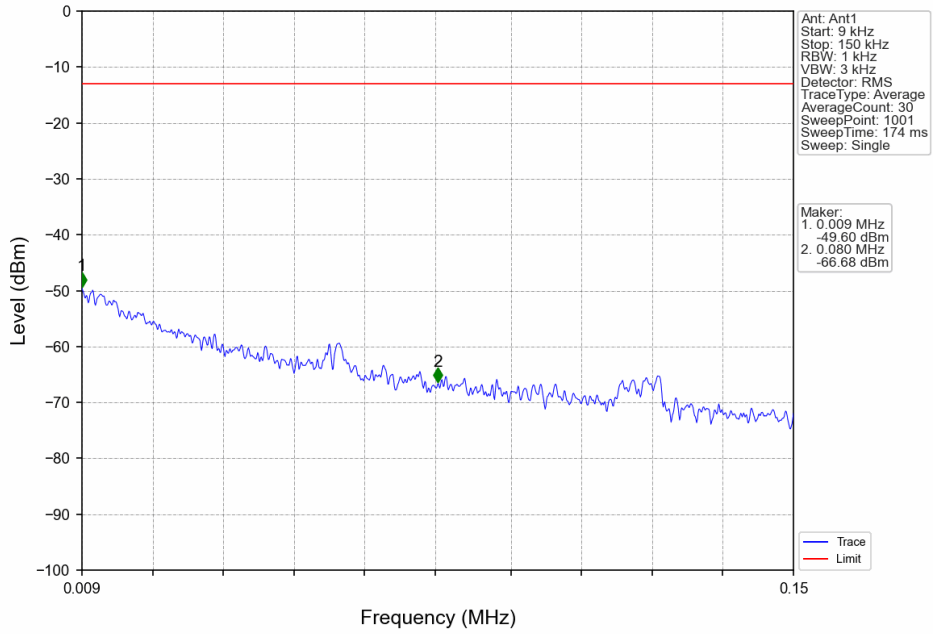
Band4_RMC_LCH_1712.4MHz_12.2kbps RMC_NTNV



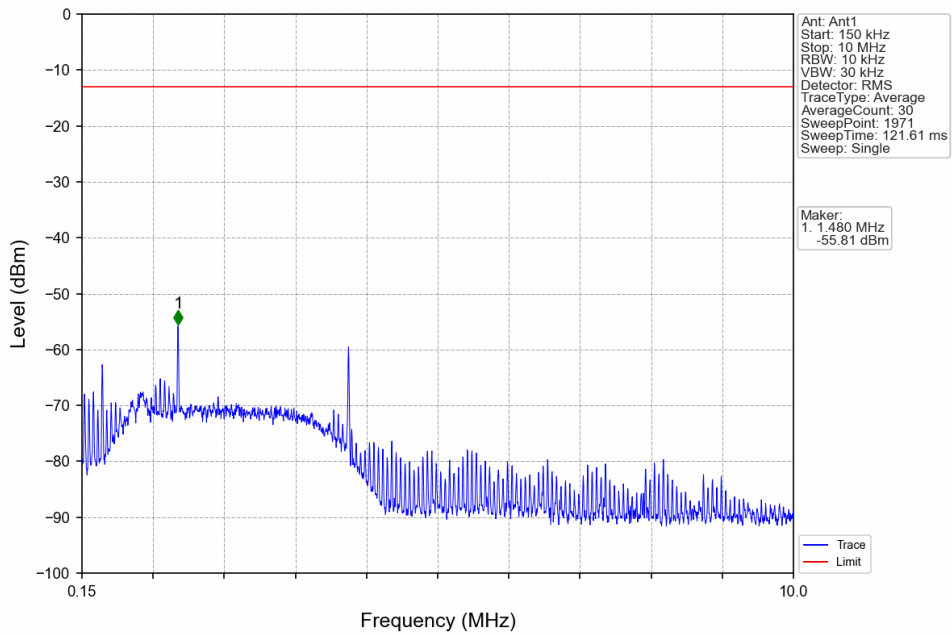
Band4_RMC_LCH_1712.4MHz_12.2kbps RMC_NTNV



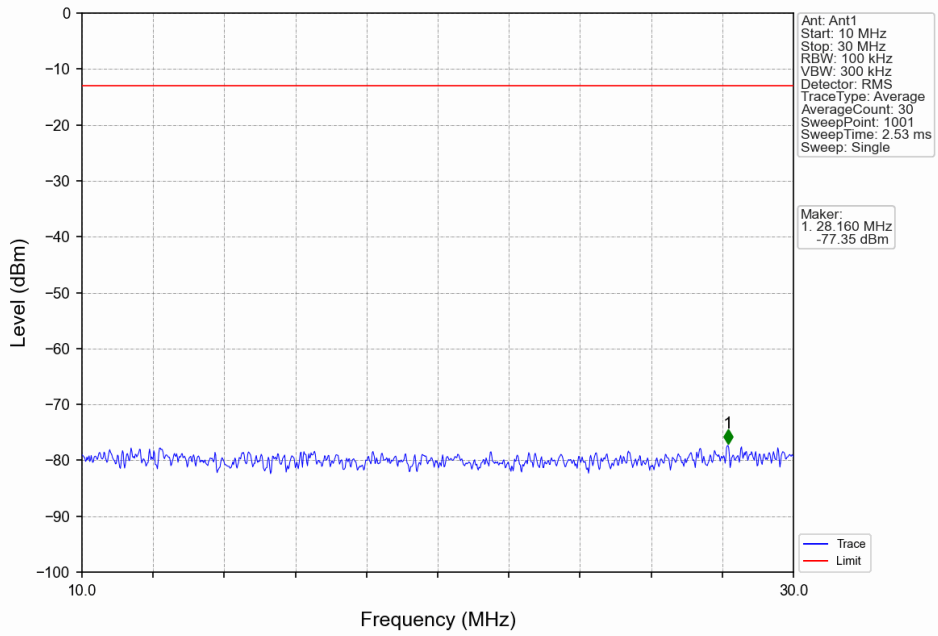
Band4_RMC_MCH_1732.6MHz_12.2kbps RMC_NTNV



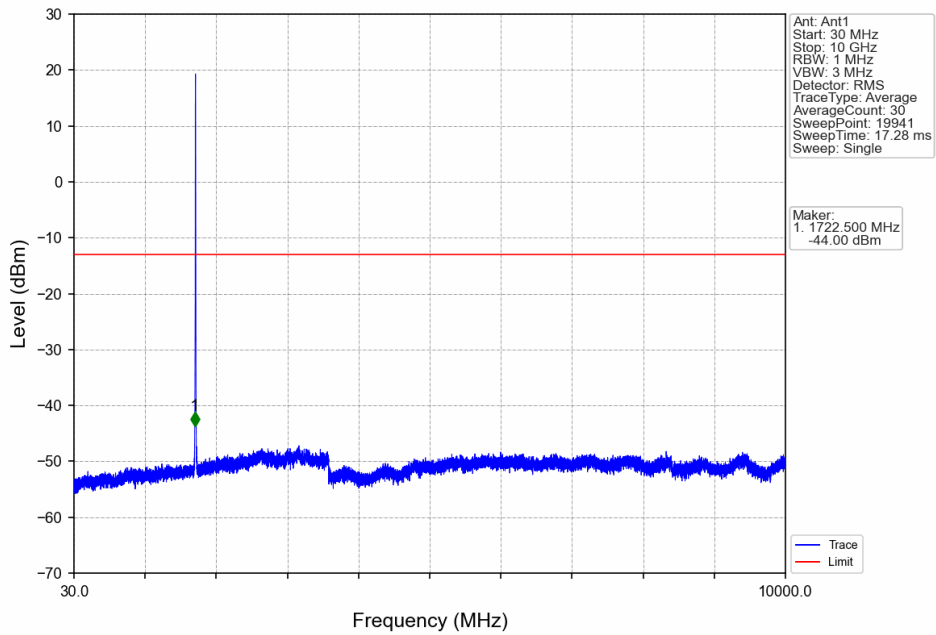
Band4_RMC_MCH_1732.6MHz_12.2kbps RMC_NTNV



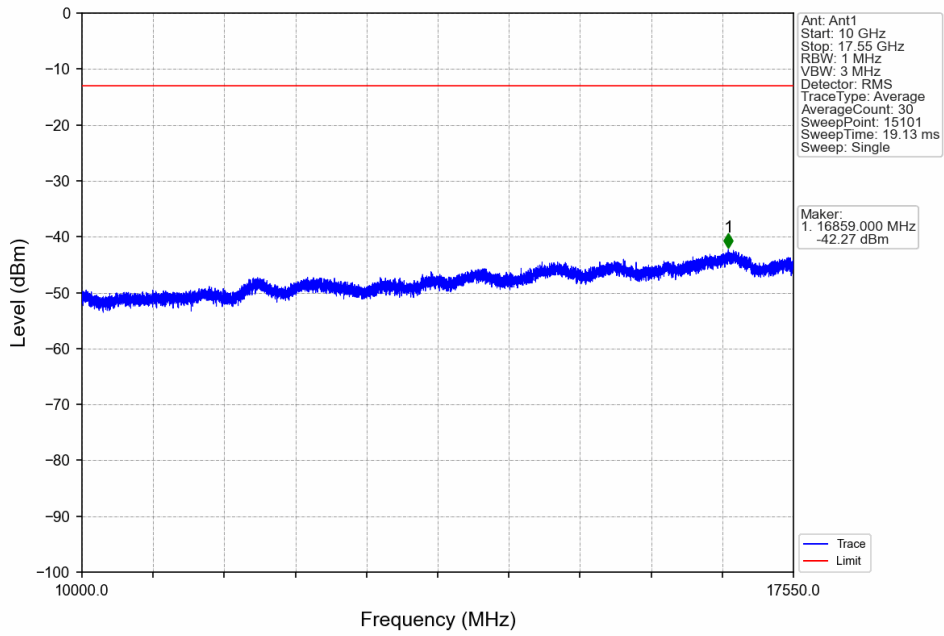
Band4_RMC_MCH_1732.6MHz_12.2kbps RMC_NTNV



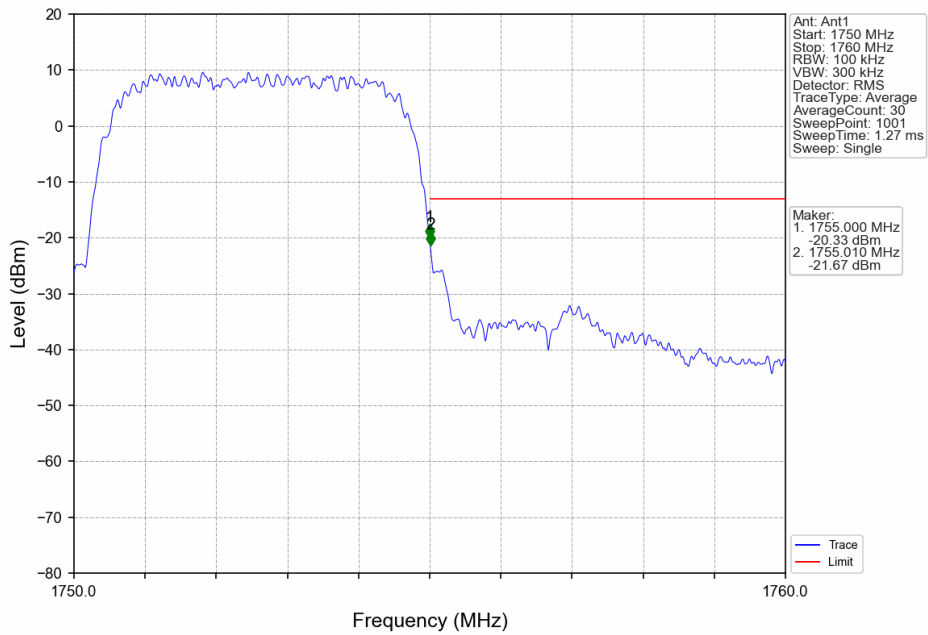
Band4_RMC_MCH_1732.6MHz_12.2kbps RMC_NTNV



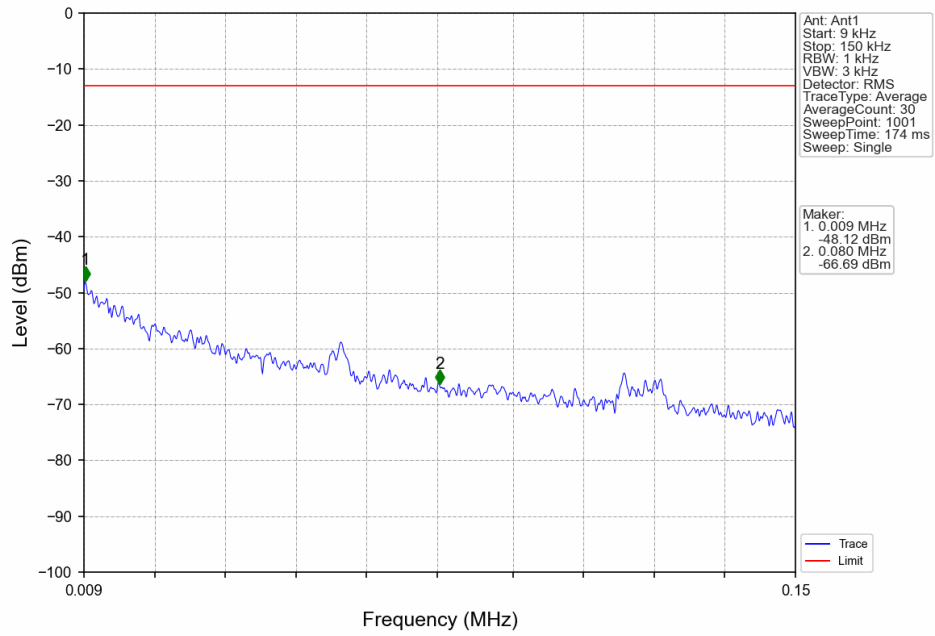
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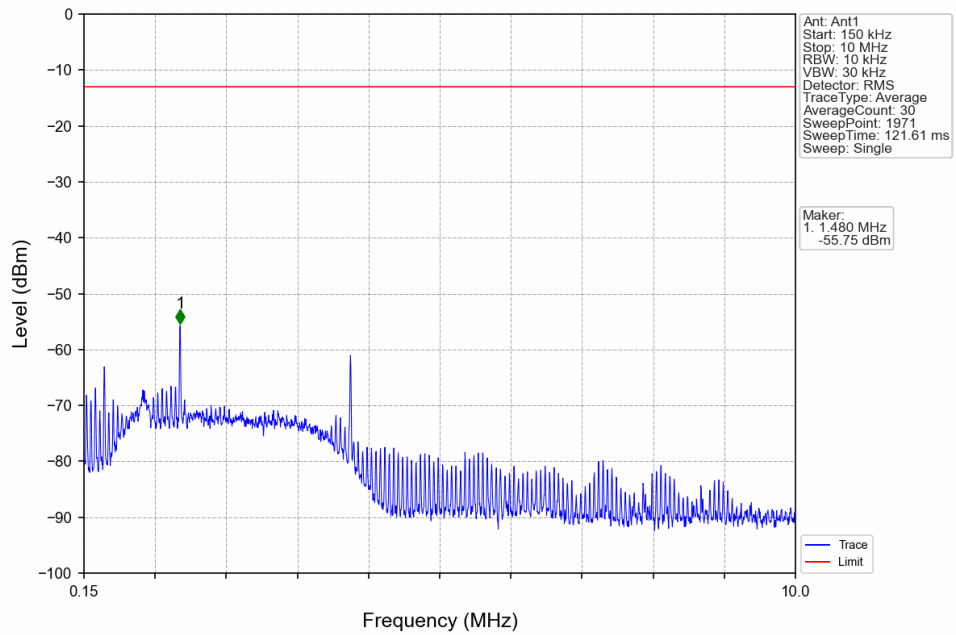
Band4_RMC_HCH_1752.6MHz_12.2kbps RMC_NTNV



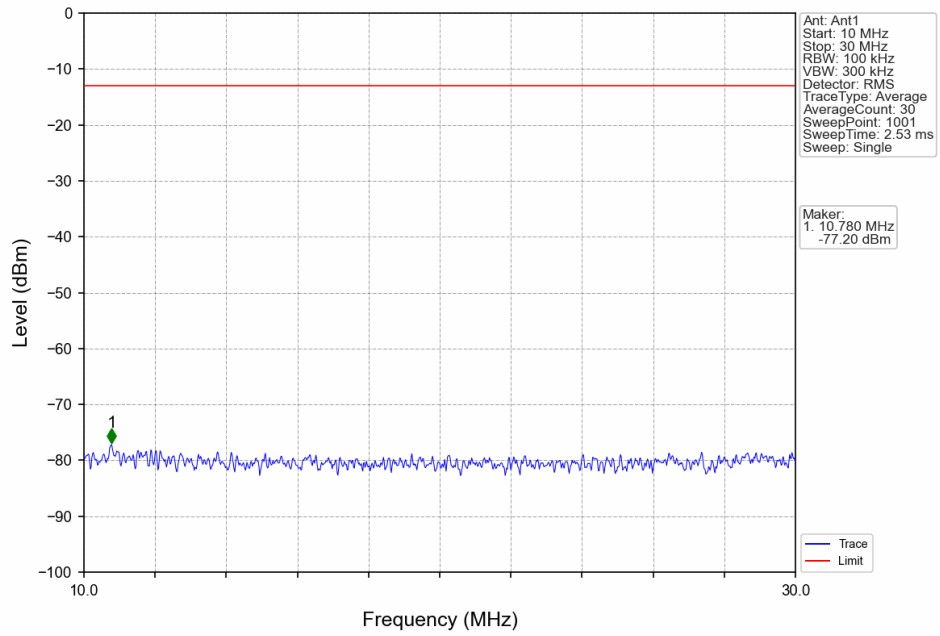
Band4_RMC_HCH_1752.6MHz_12.2kbps RMC_NTNV



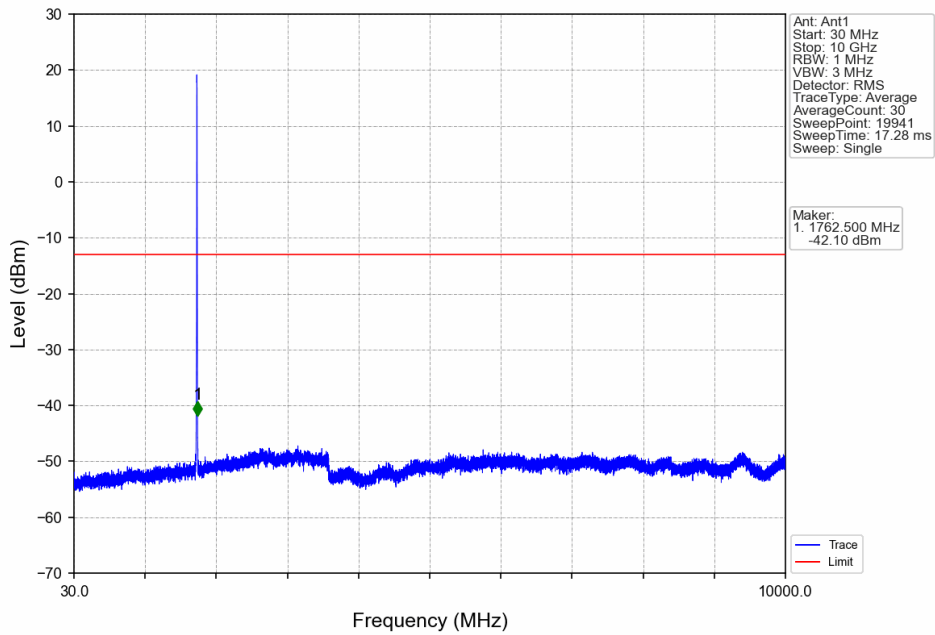
Band4_RMC_HCH_1752.6MHz_12.2kbps RMC_NTNV



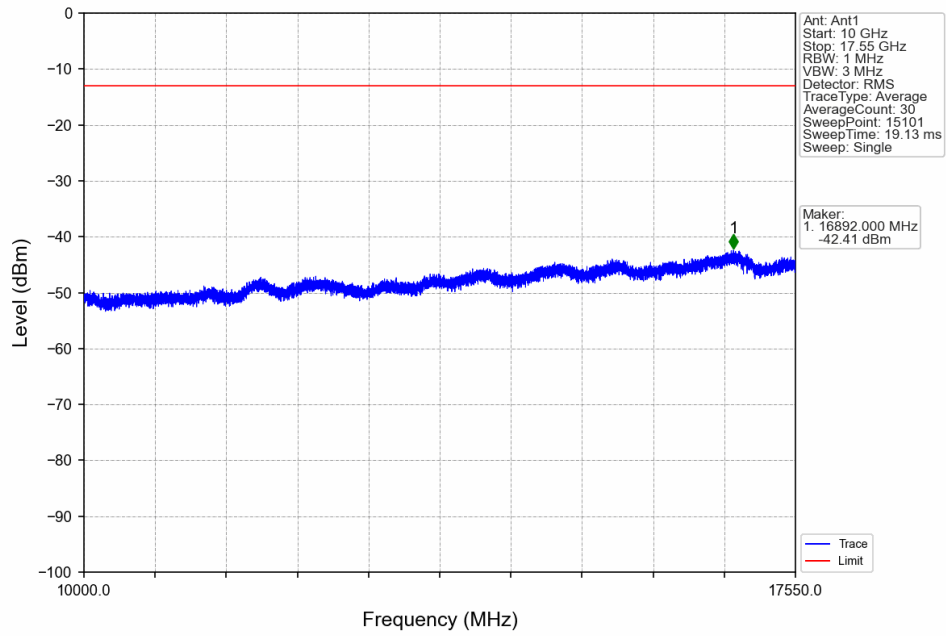
Band4_RMC_HCH_1752.6MHz_12.2kbps RMC_NTNV



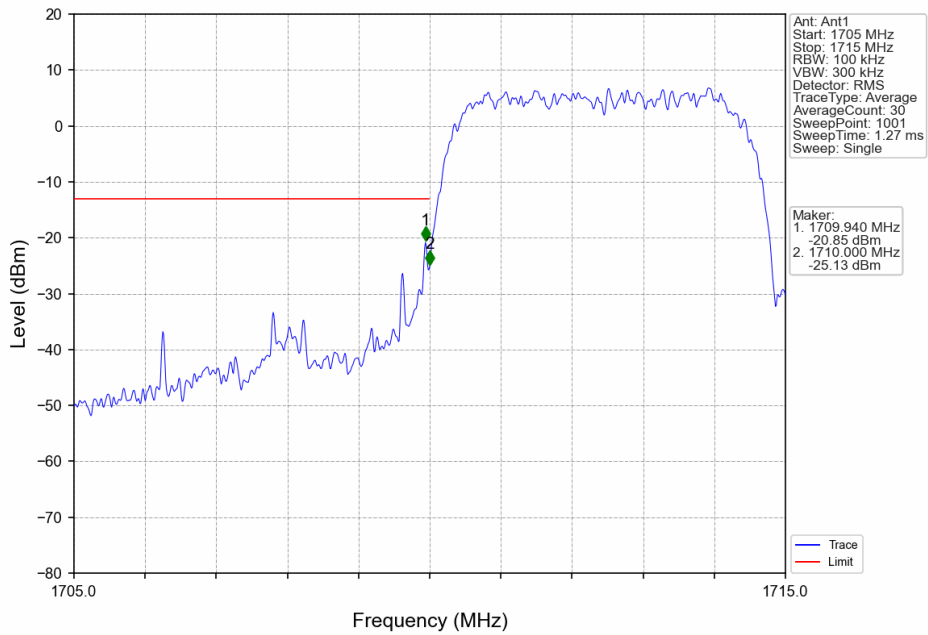
Band4_RMC_HCH_1752.6MHz_12.2kbps RMC_NTNV



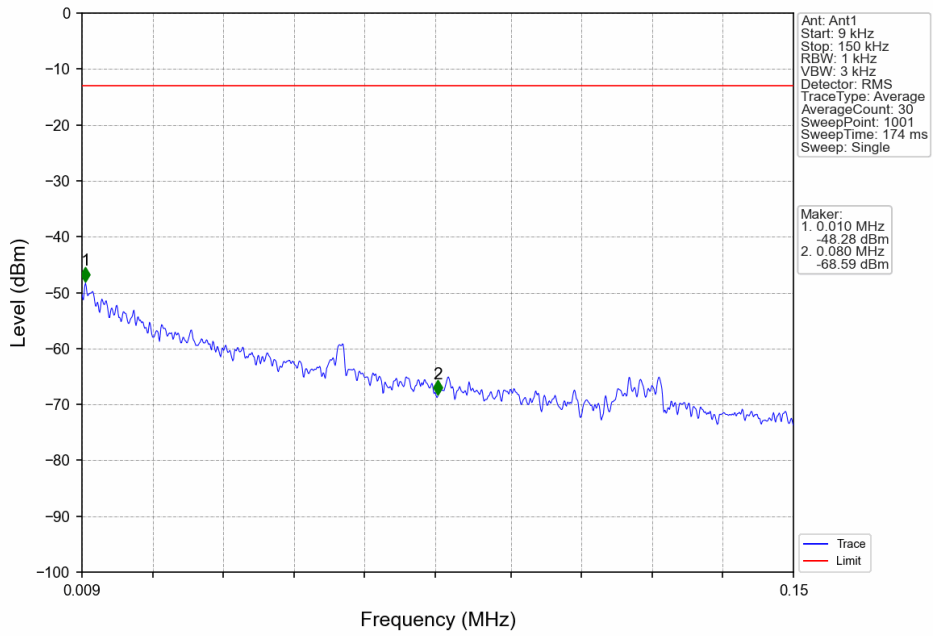
Band4_RMC_HCH_1752.6MHz_12.2kbps RMC_NTNV



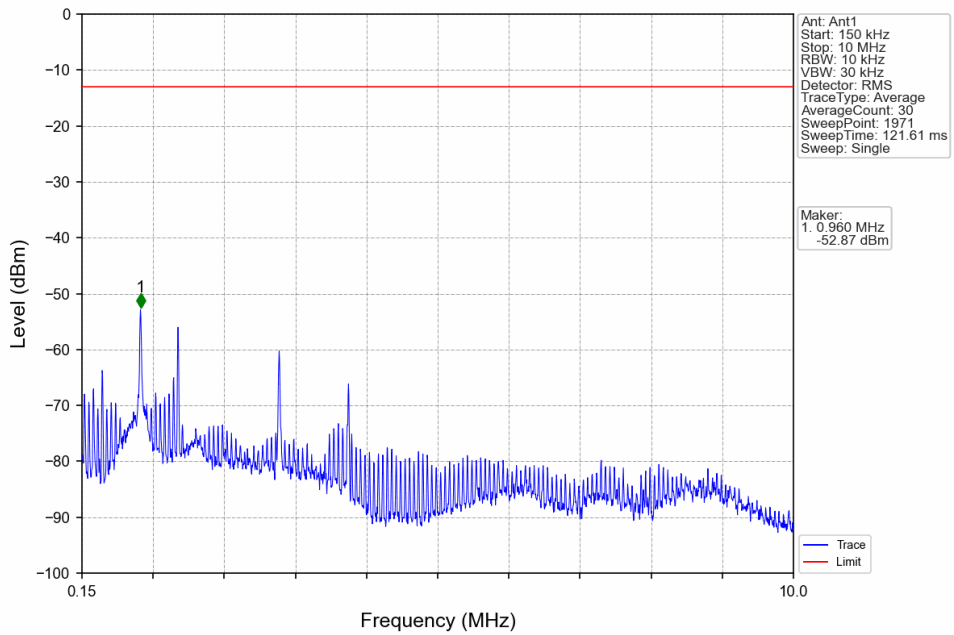
Band4_HSDPA_LCH_1712.4MHz_Subtest 1_NTNV



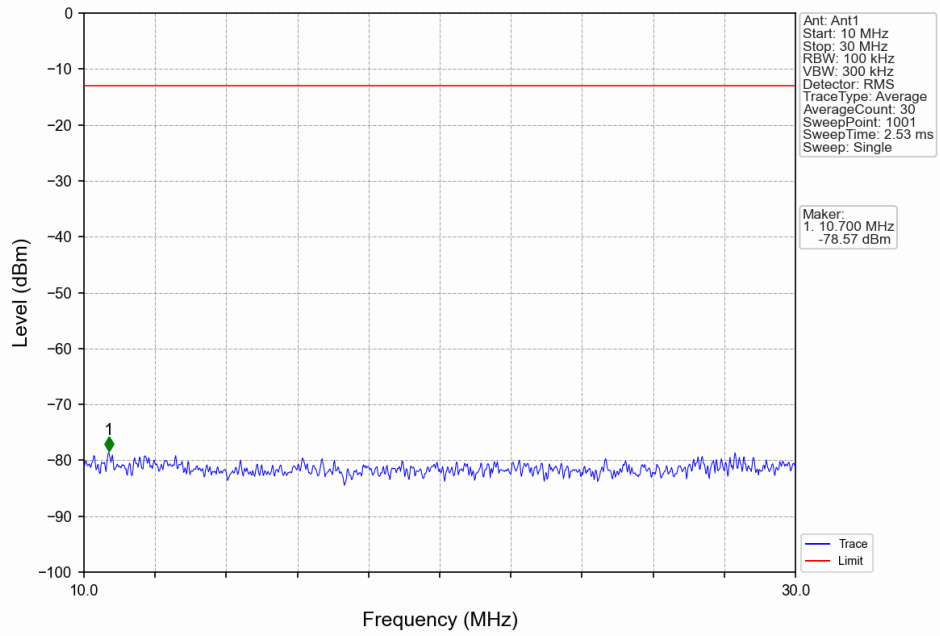
Band4_HSDPA_LCH_1712.4MHz_Subtest 1_NTNV



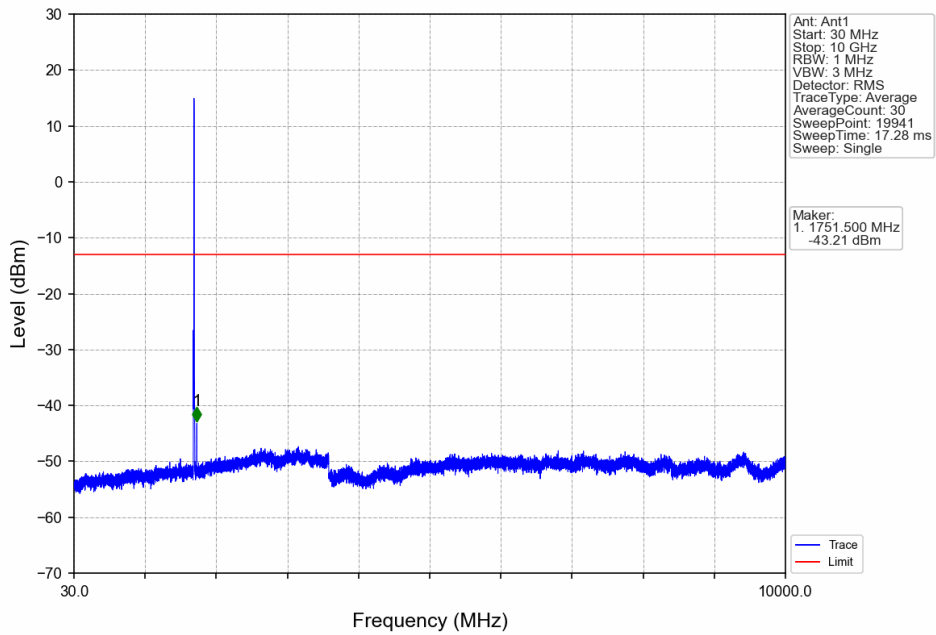
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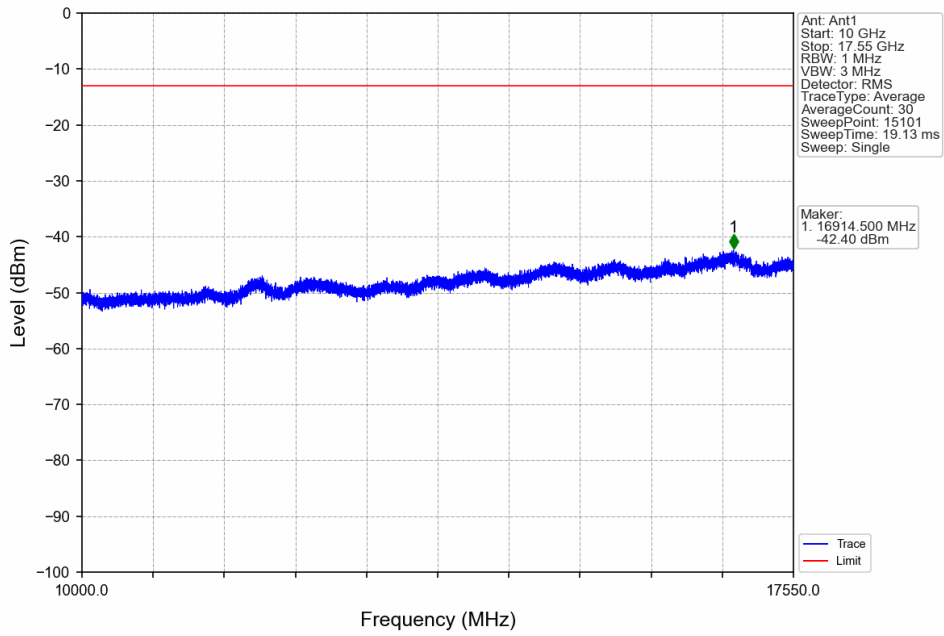
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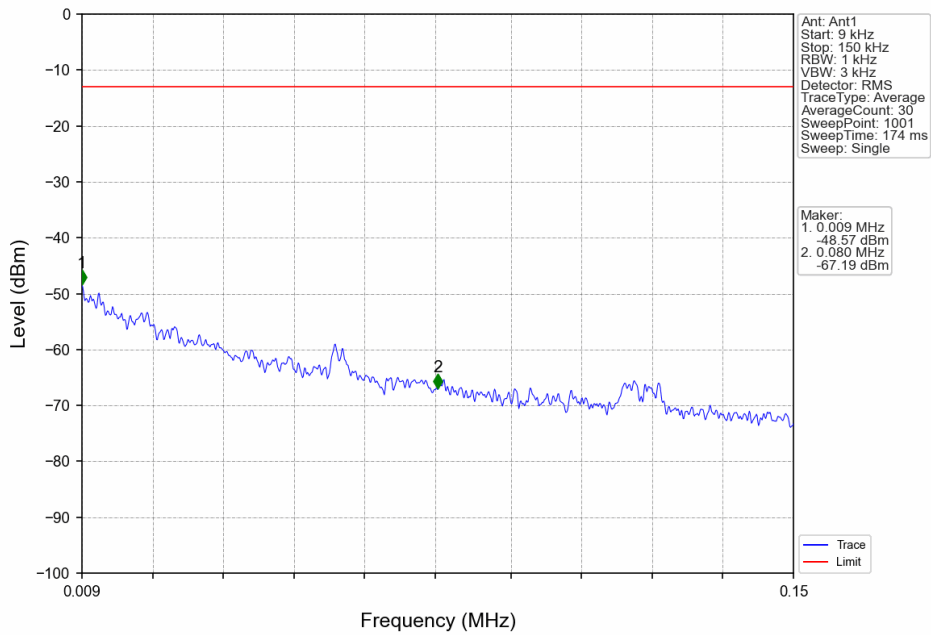
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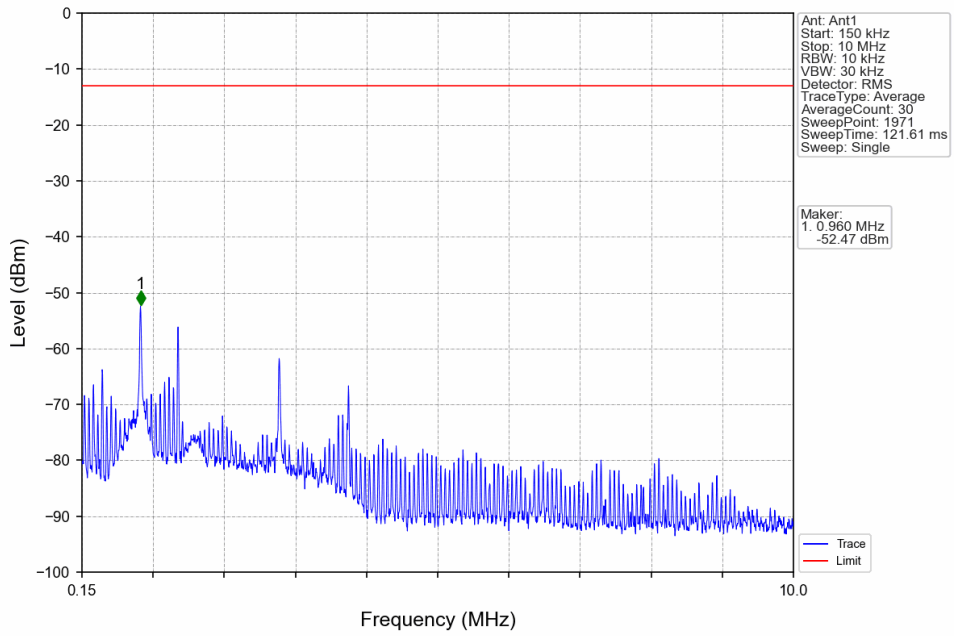
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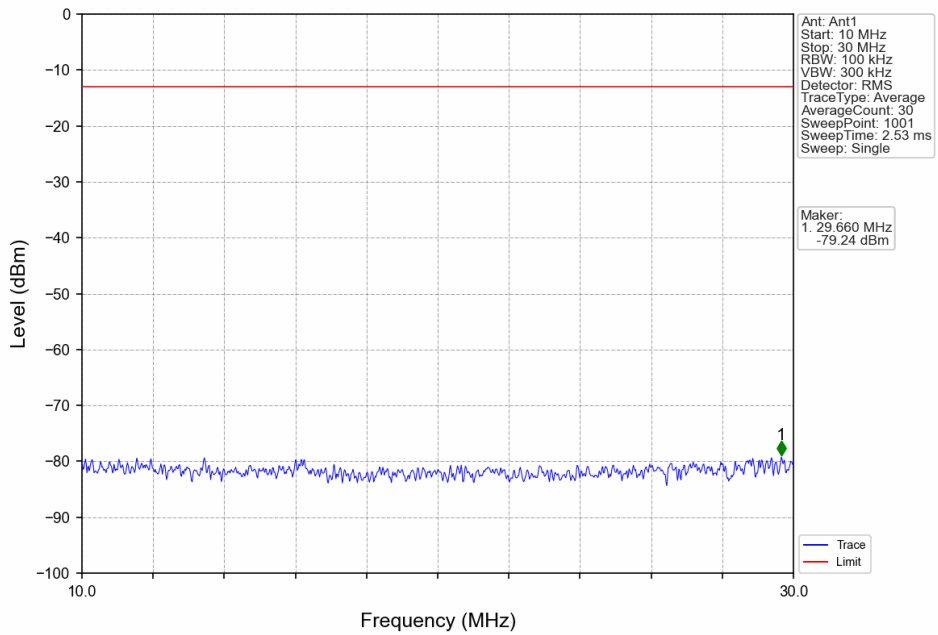
Band4_HSDPA_MCH_1732.6MHz_Subtest 1_NTNV



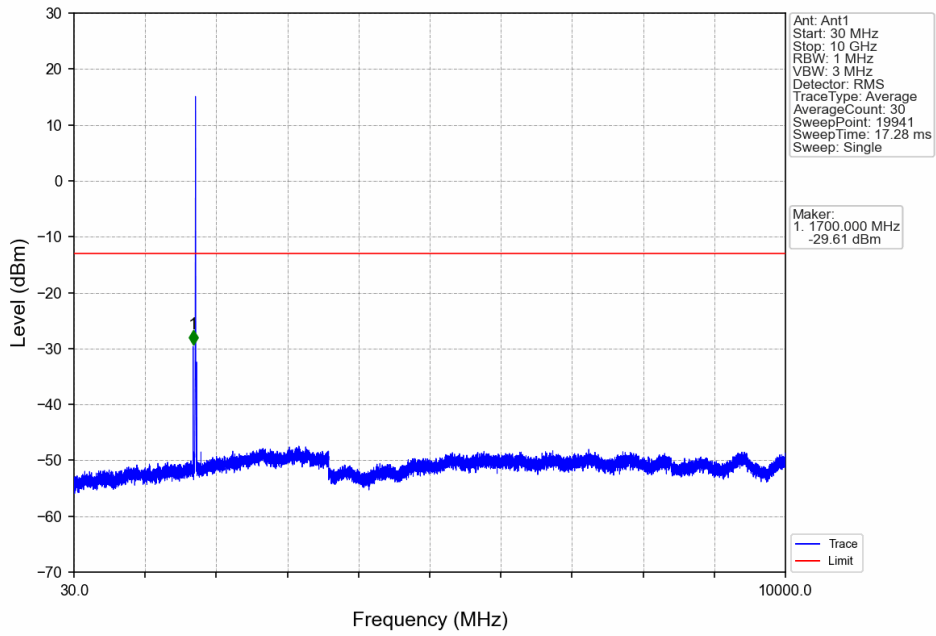
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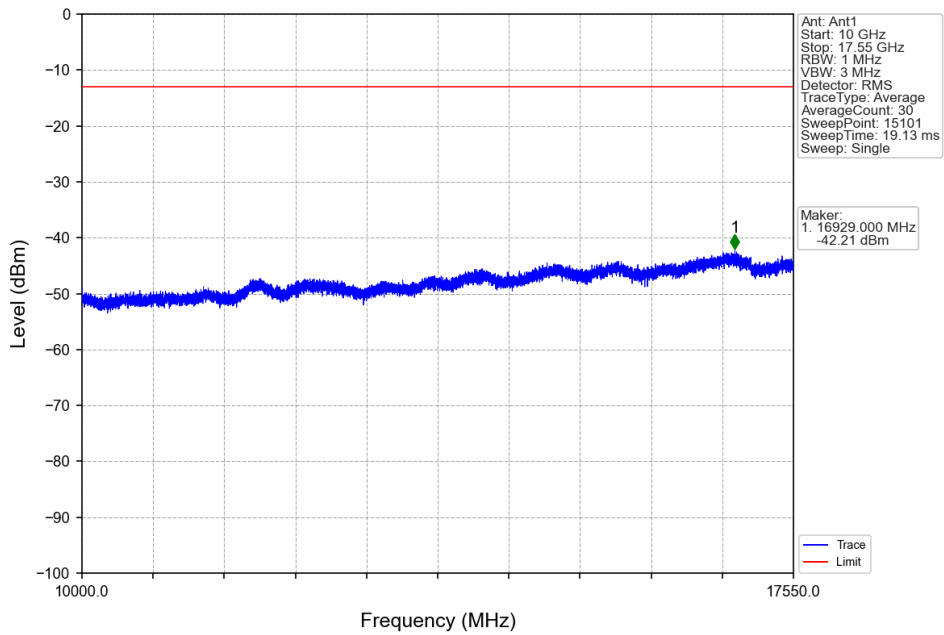
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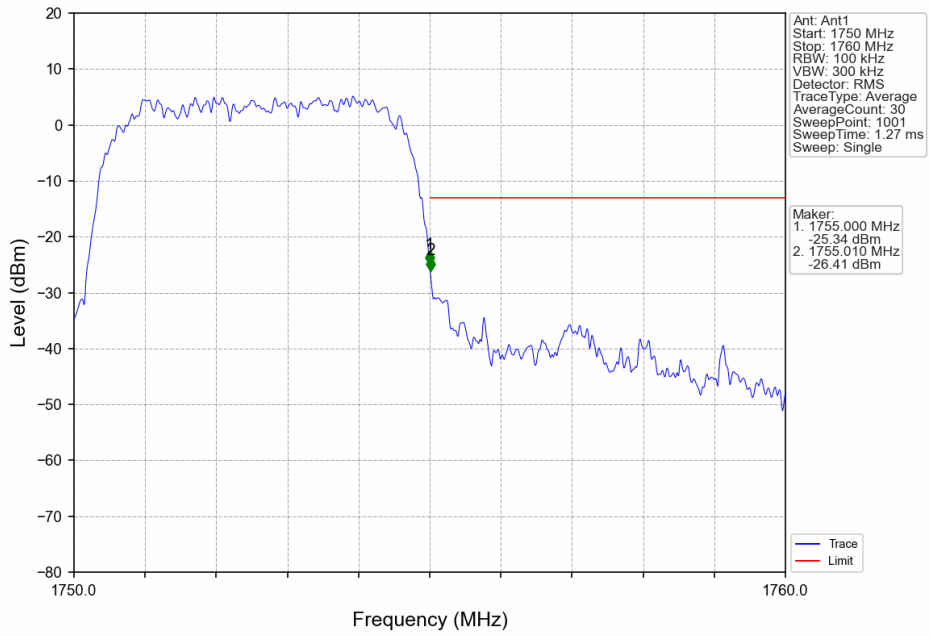
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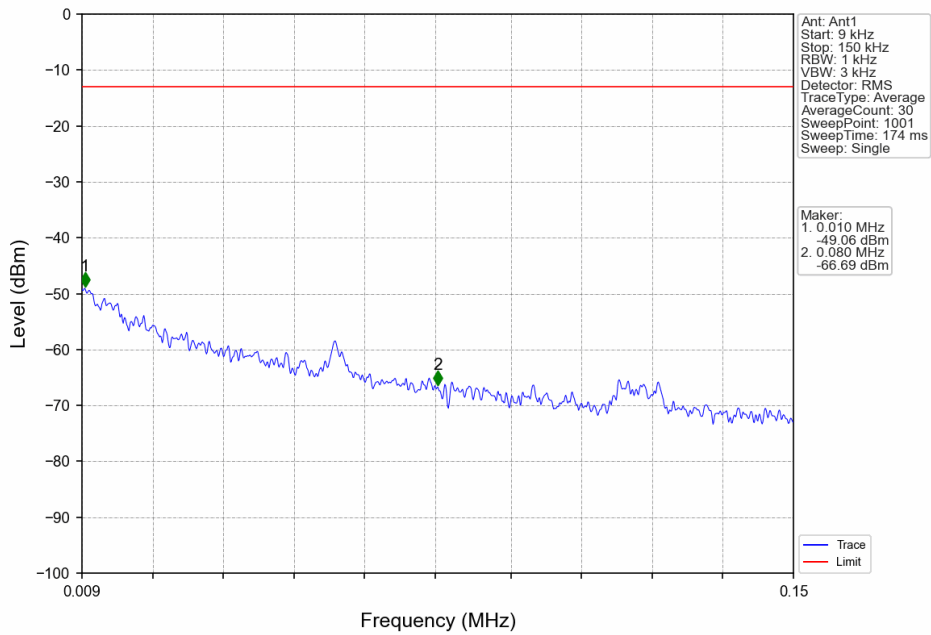
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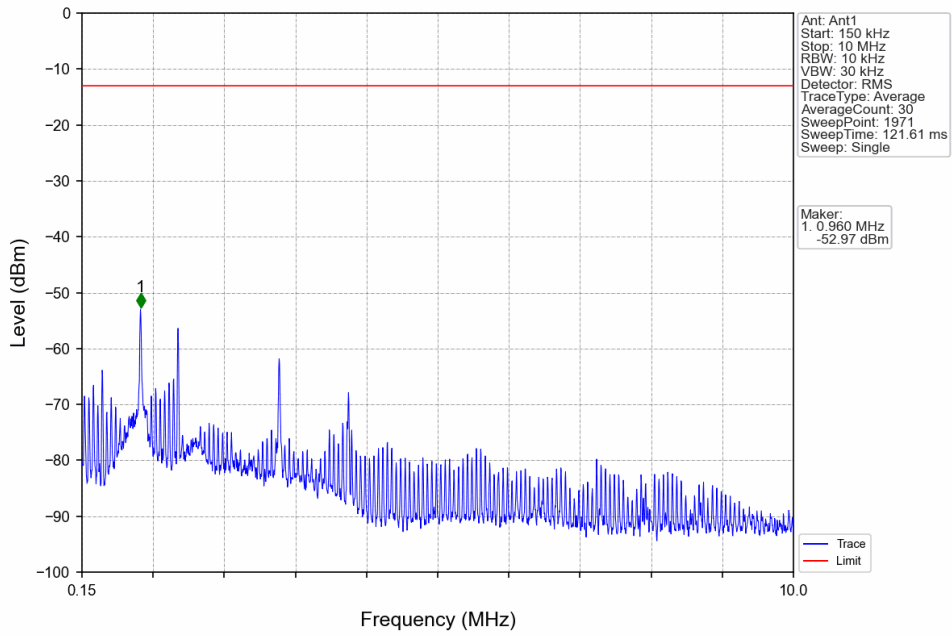
Band4_HSDPA_HCH_1752.6MHz_Subtest 1_NTNV



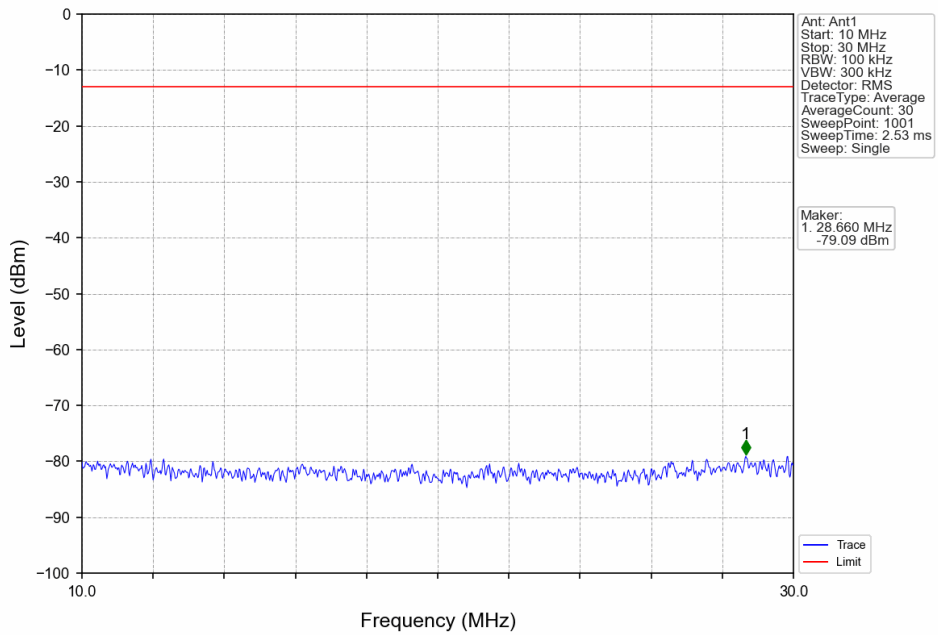
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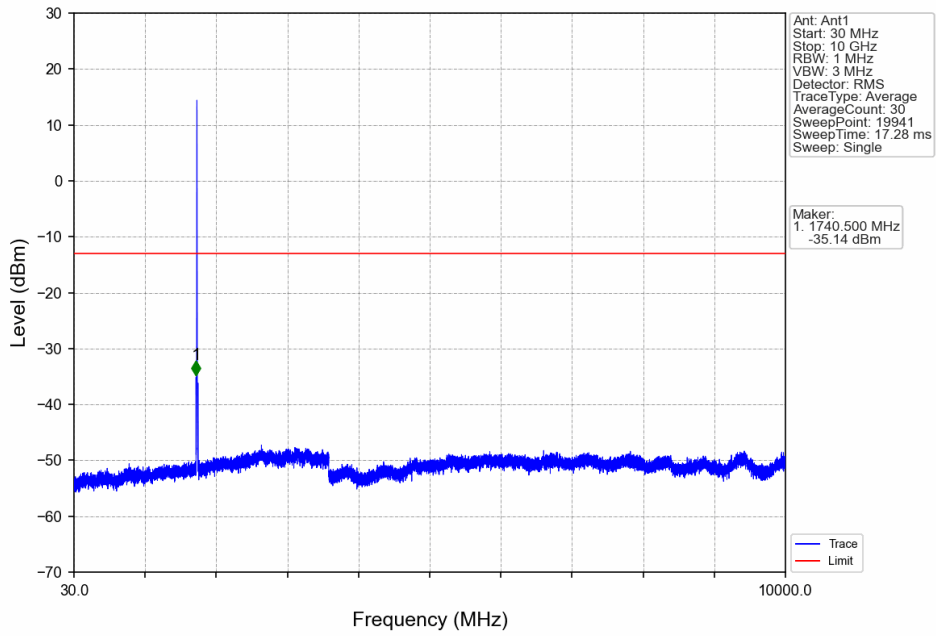
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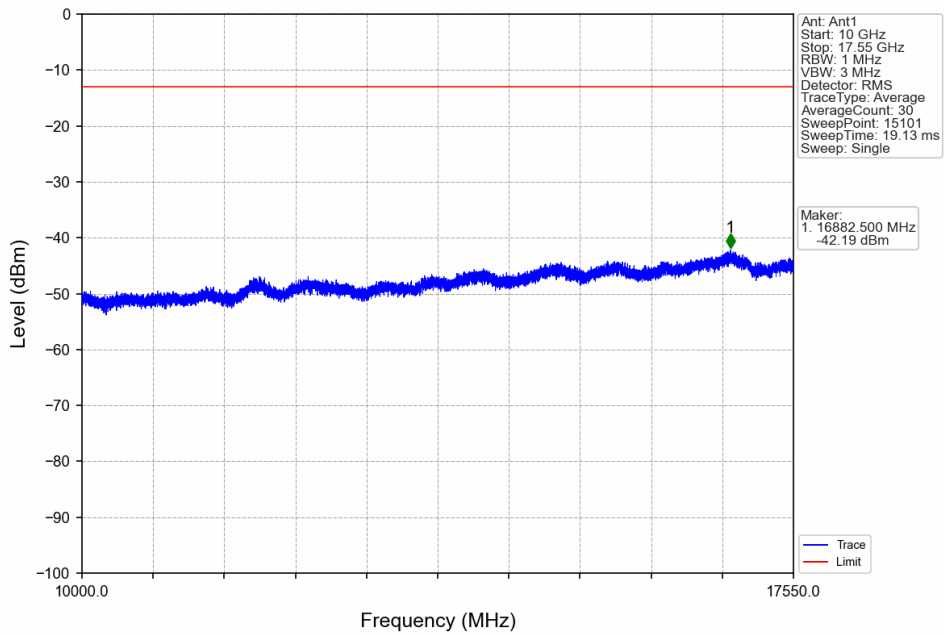
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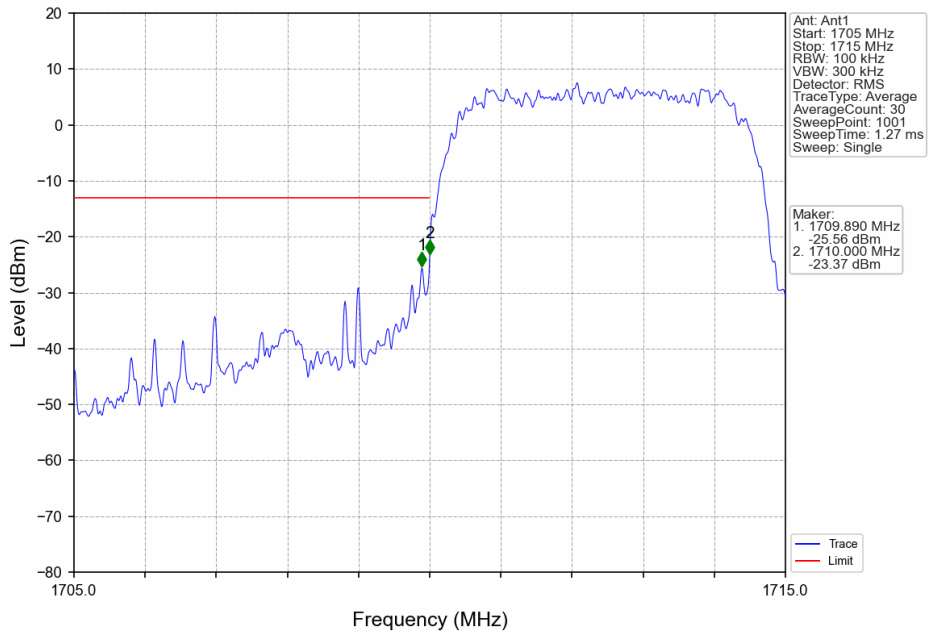
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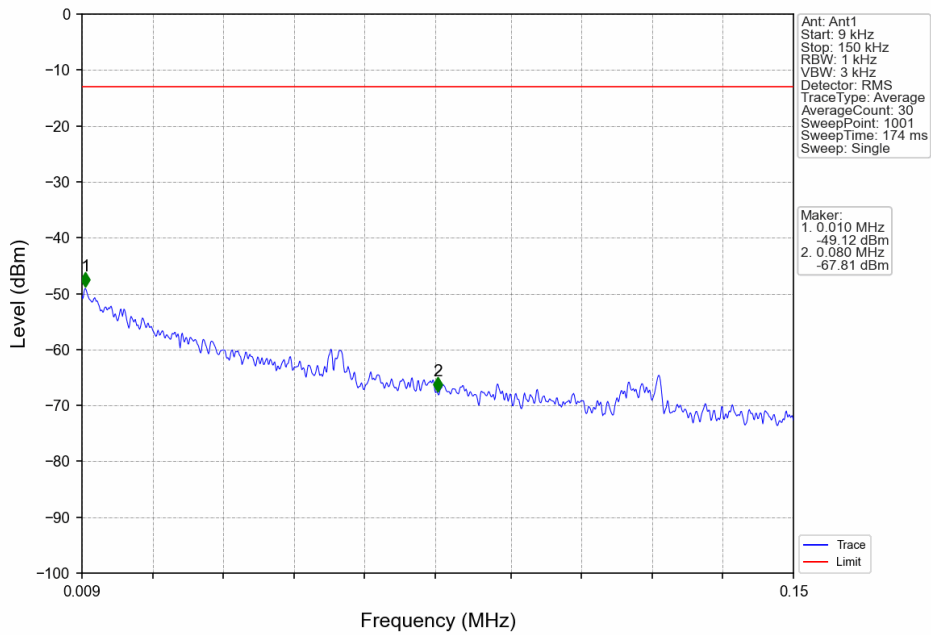
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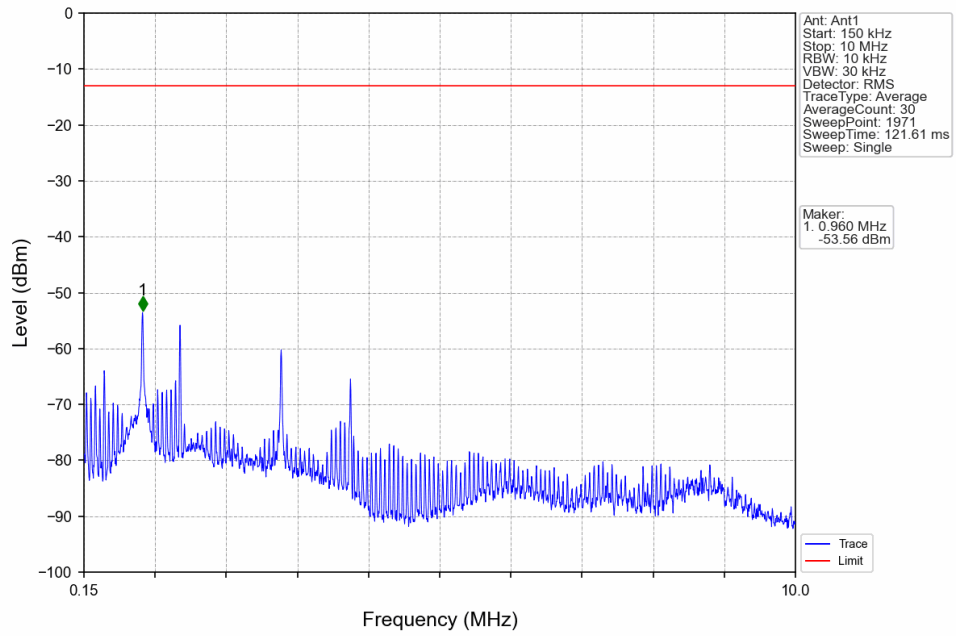
Band4_HSUPA_LCH_1712.4MHz_Subtest 1_NTNV



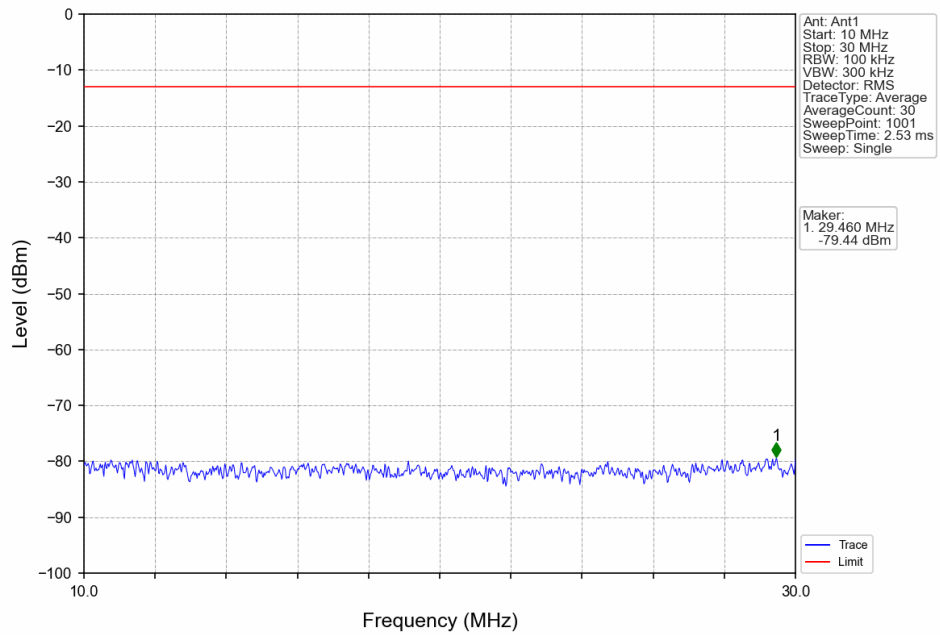
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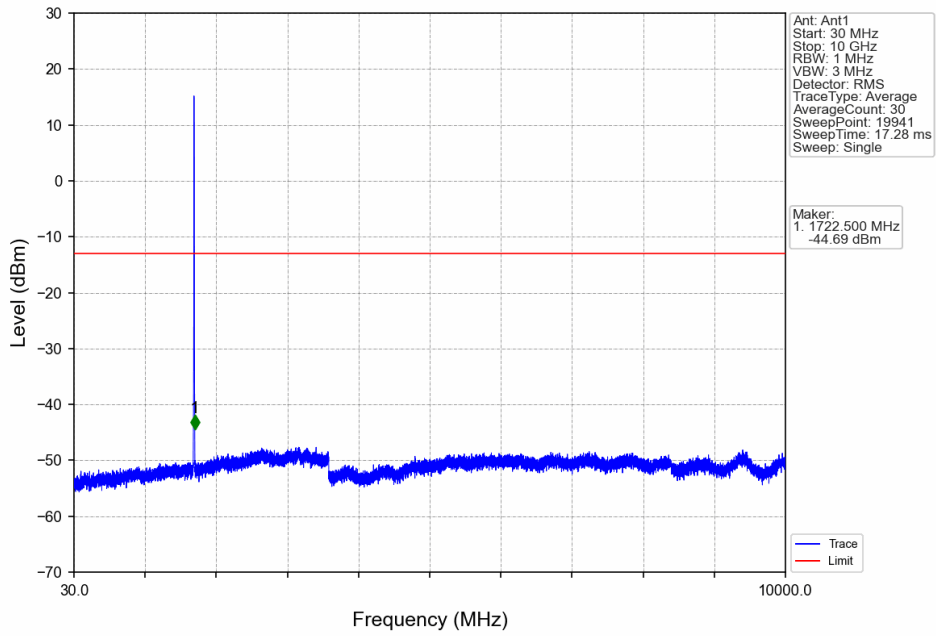
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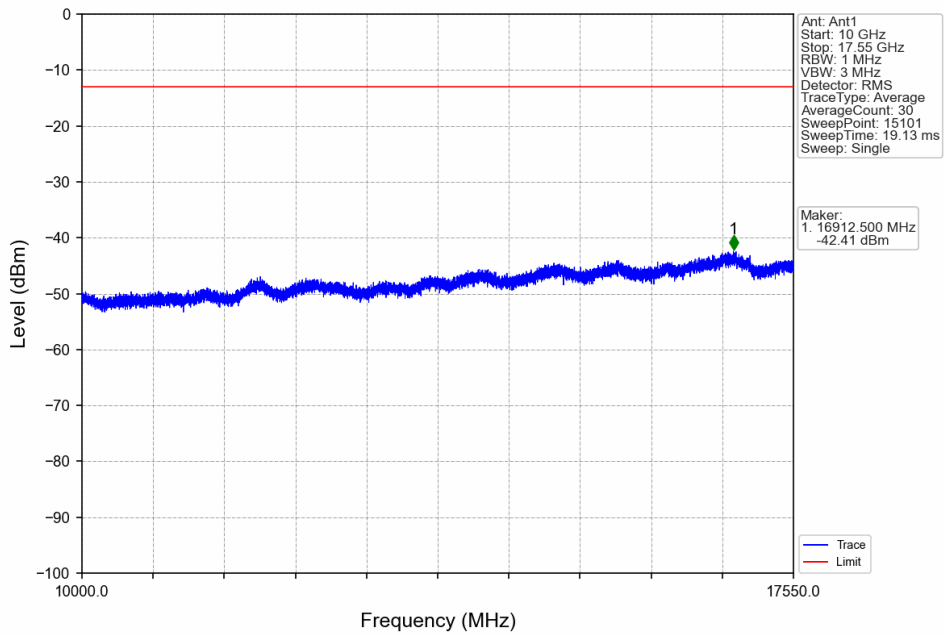
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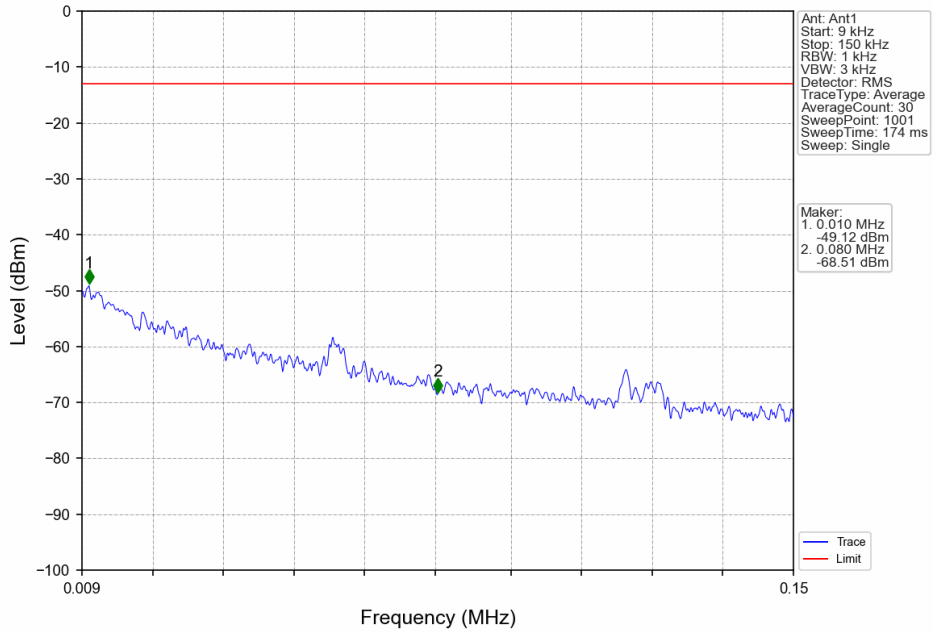
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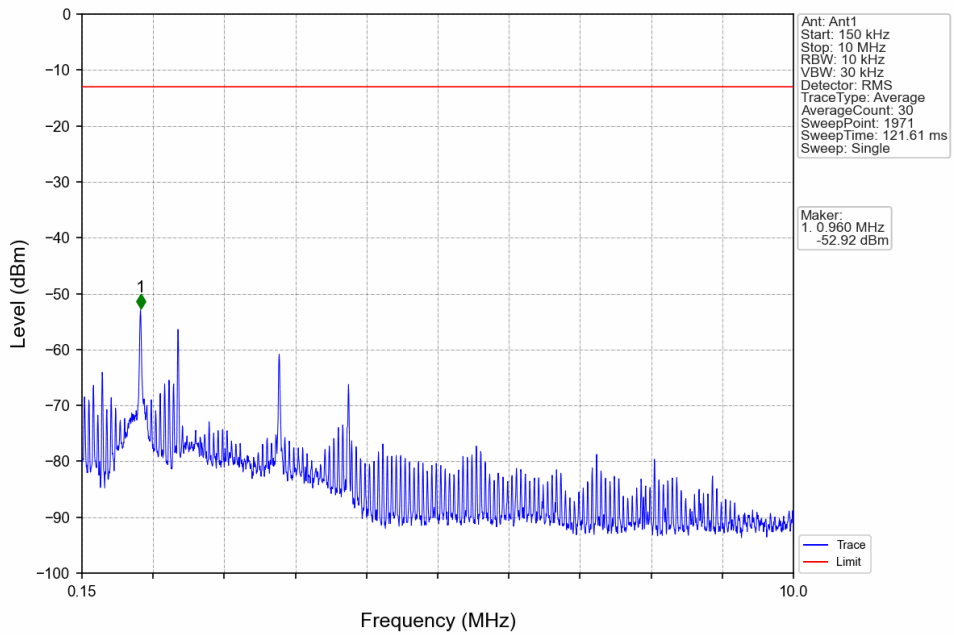
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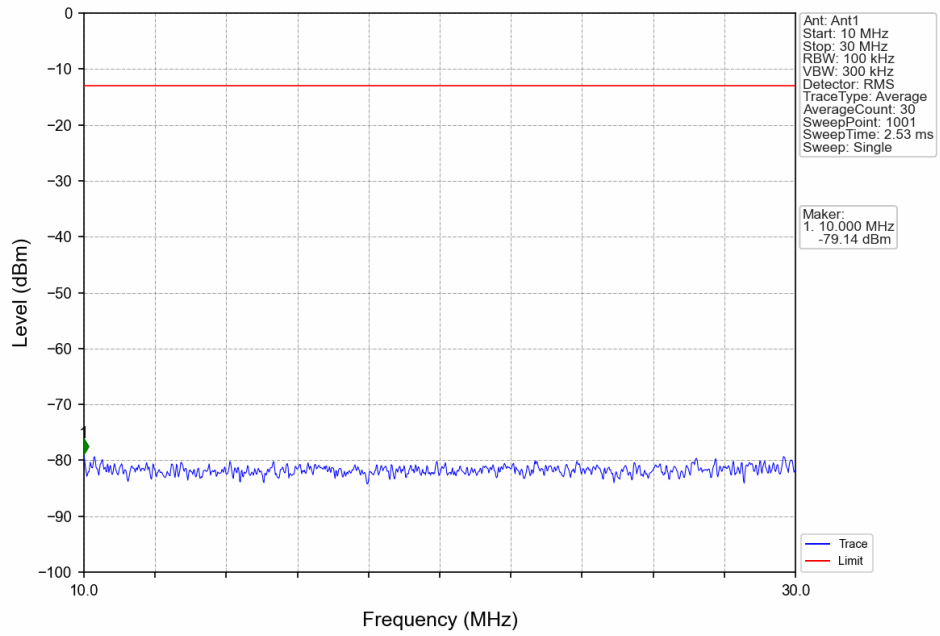
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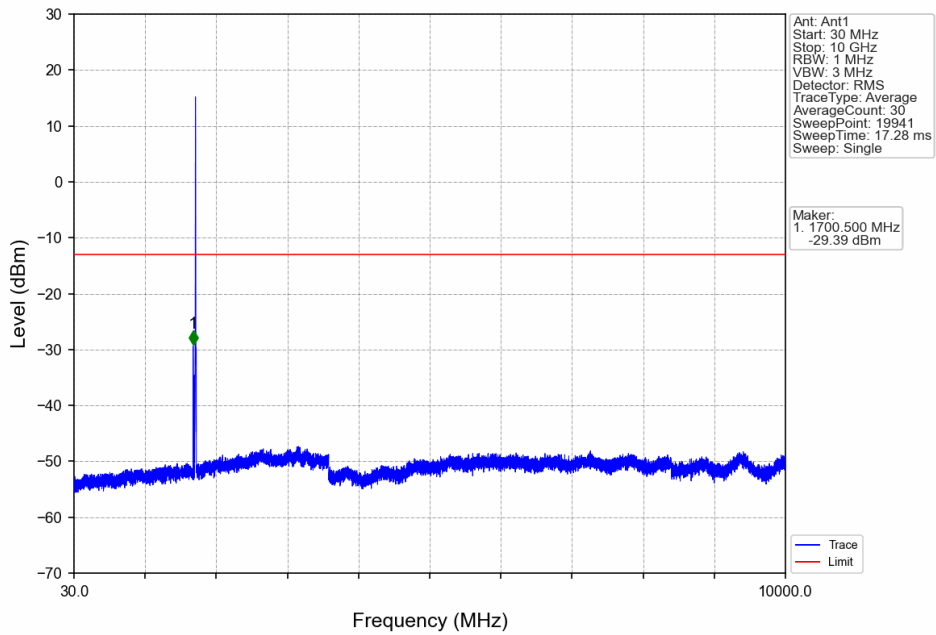
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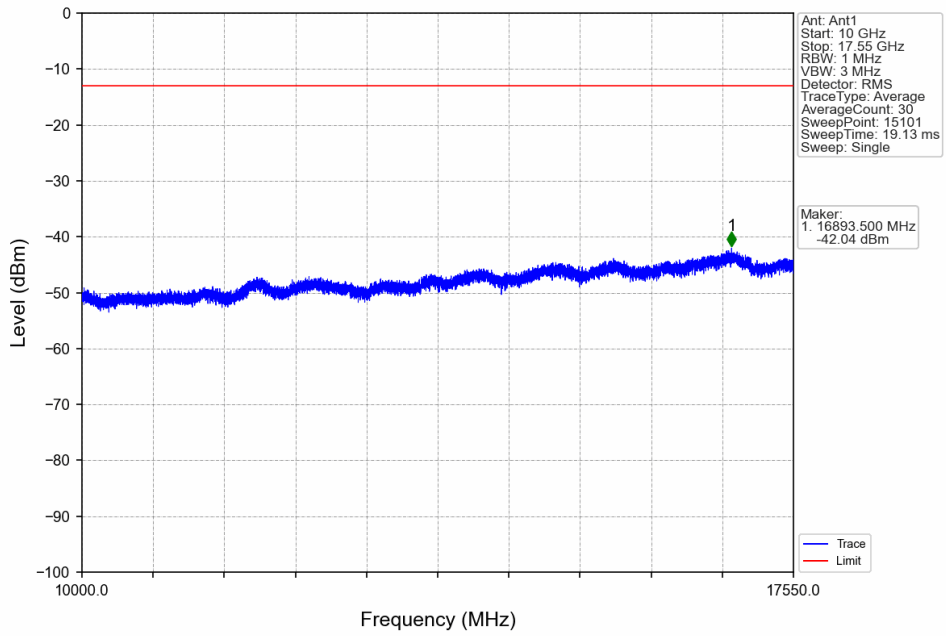
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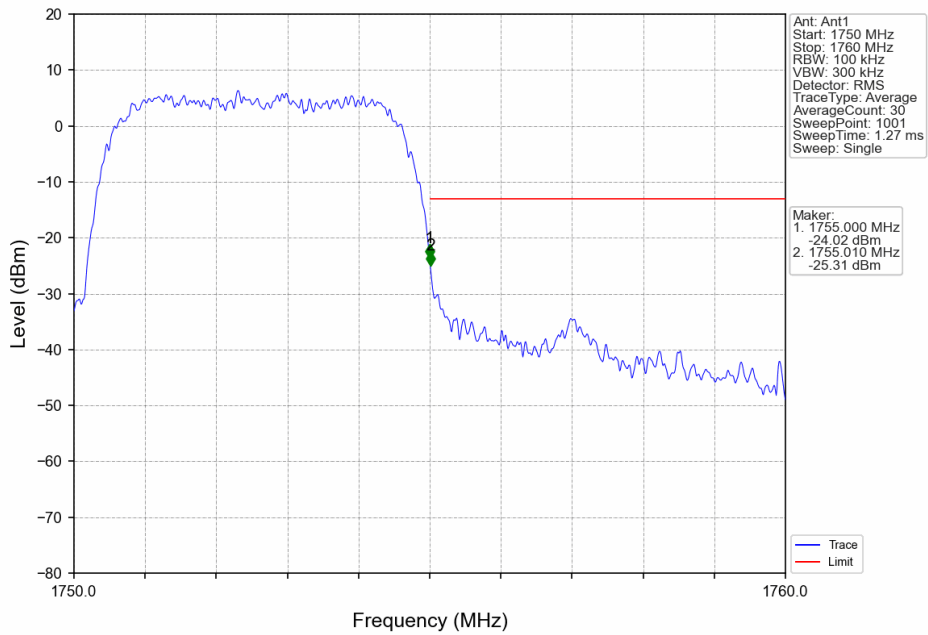
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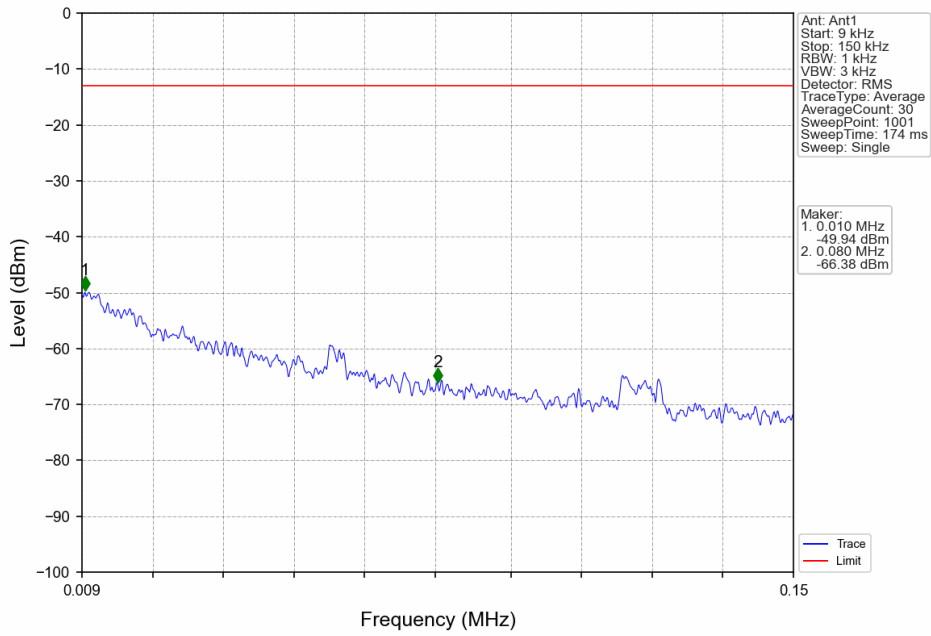
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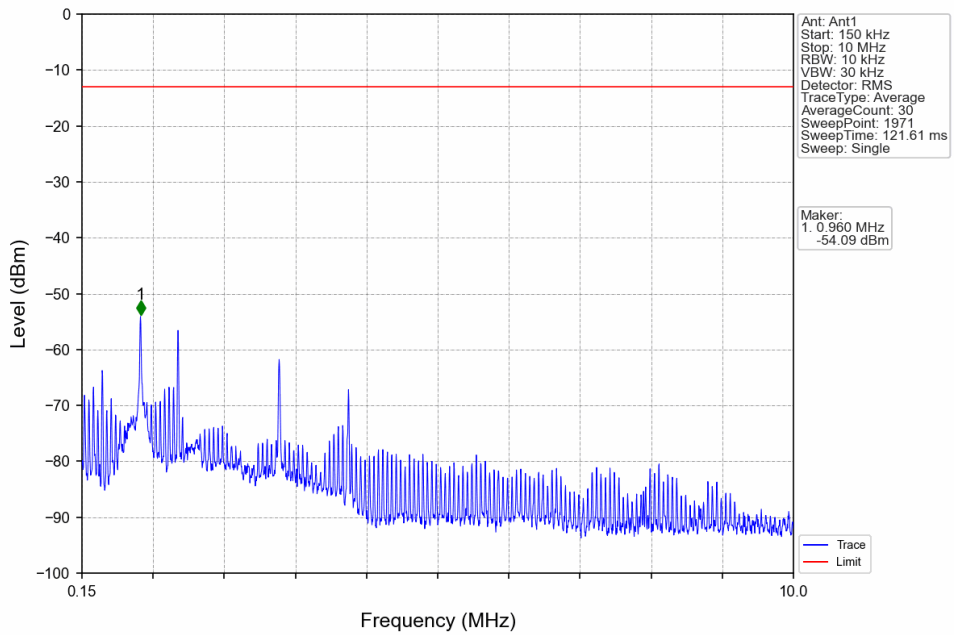
Band4_HSUPA_HCH_1752.6MHz_Subtest 1_NTNV



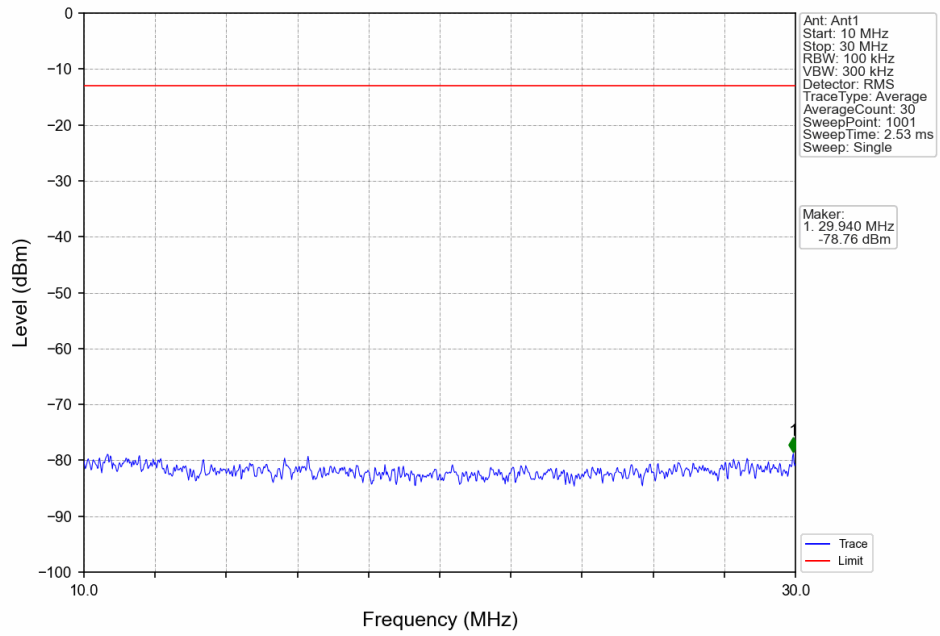
Band4_HSUPA_HCH_1752.6MHz_Subtest 1_NTNV



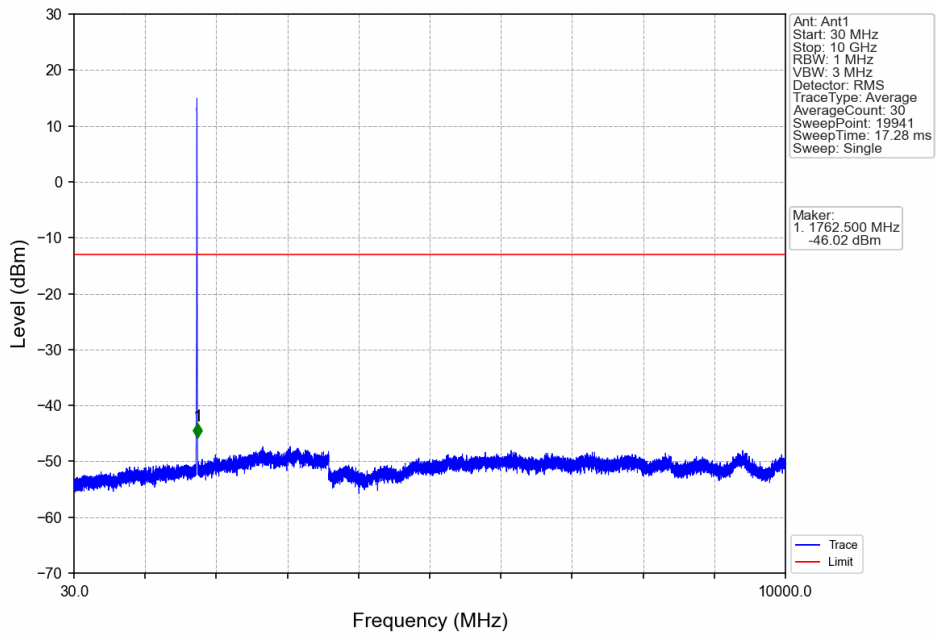
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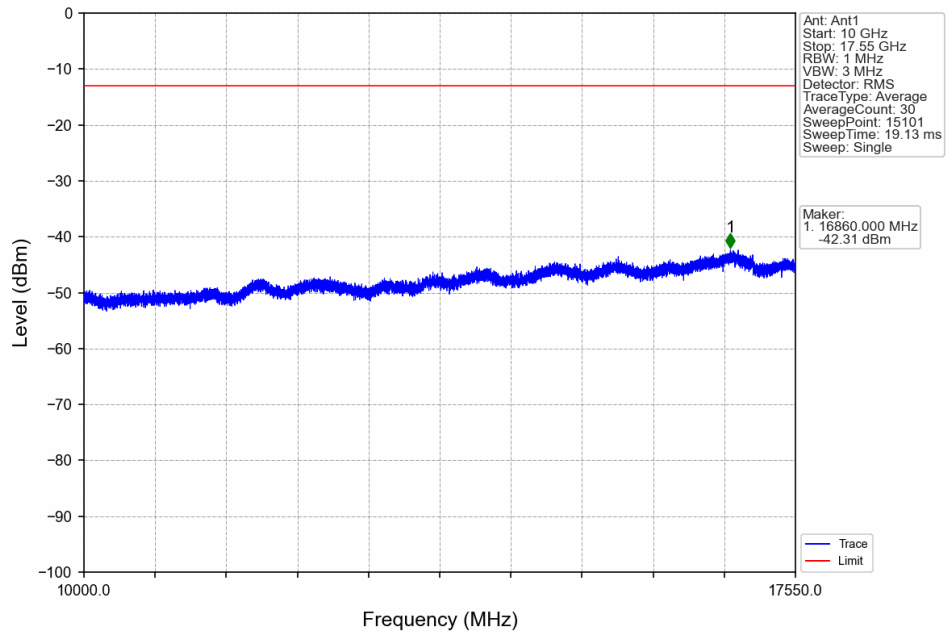
Band4_HSUPA_HCH_1752.6MHz_Subtest 1_NTNV



Band4_HSUPA_HCH_1752.6MHz_Subtest 1_NTNV



Band4_HSUPA_HCH_1752.6MHz_Subtest 1_NTNV



7. Form731

7.1 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	0.2559	0.0109	ppm	4M26F9W	24E	24.08

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	0.2831	0.0109	ppm	4M26F9W	24E	24.52