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Appendix B.1

WCDMA Band IV



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Effective (Isotropic) Radiated Power Output Data

Band IV_EIRP Ant1

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	22.56	1.10	23.66	<=30	Pass
			1732.6	22.37	1.10	23.47	<=30	Pass
			1752.6	22.45	1.10	23.55	<=30	Pass
Note1: EIRP=Conducted Power+Antenna Gain								



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Peak-Average Ratio

Band IV

Test Result

Band IV						
ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1712.4	2.64	<=13	Pass
			1732.6	2.65	<=13	Pass
			1752.6	2.60	<=13	Pass



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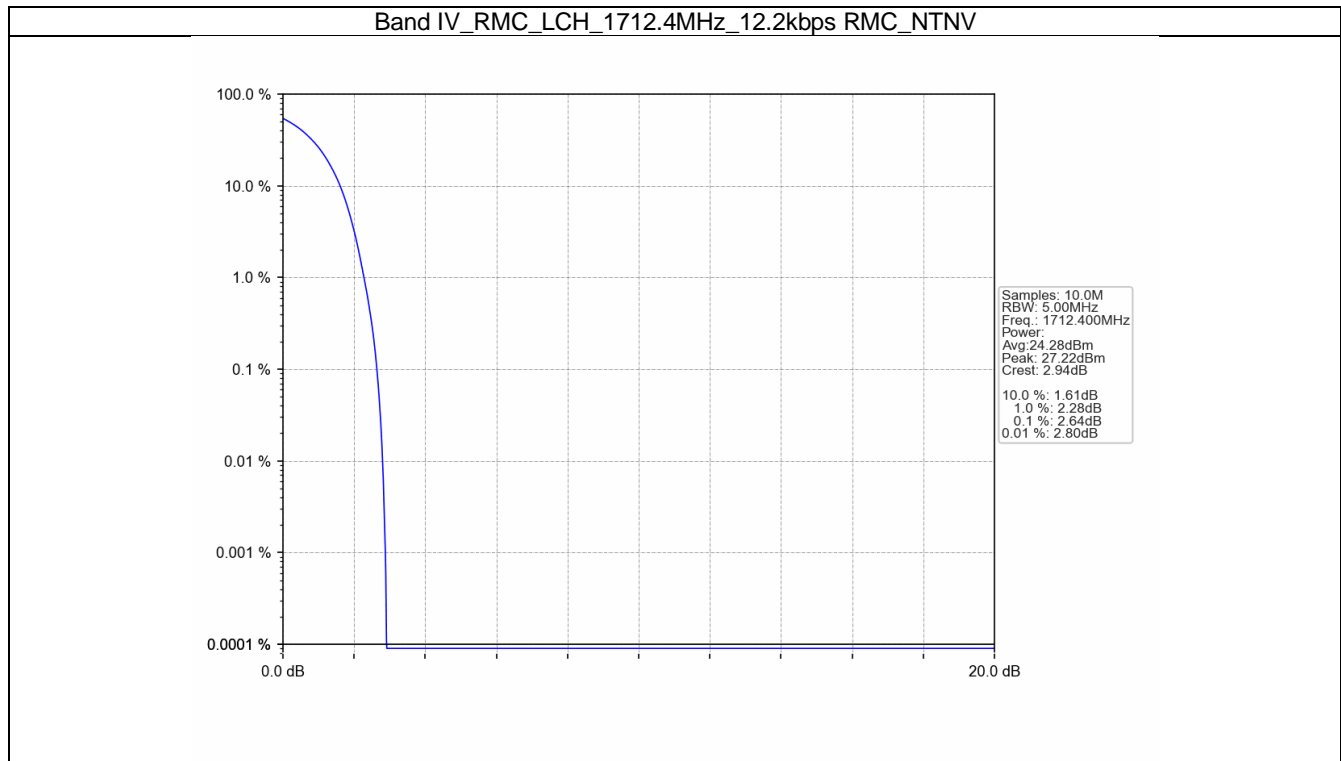
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Test Graph



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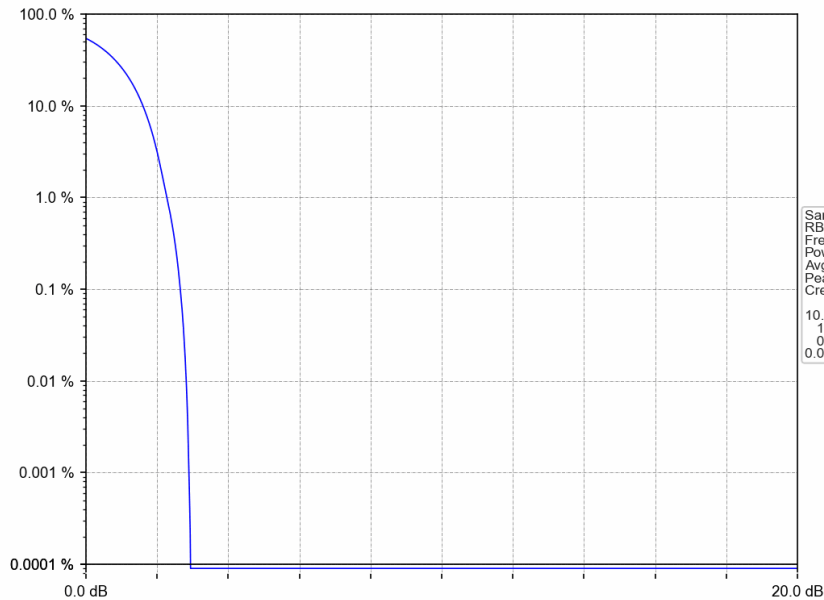
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Band IV_RMC_MCH_1732.6MHz_12.2kbps RMC_NTNV



Samples: 10.0M
RBW: 5.00MHz
Freq.: 1732.600MHz
Power:
Avg: 24.02dBm
Peak: 26.98dBm
Crest: 2.96dB
10.0 %: 1.60dB
1.0 %: 2.28dB
0.1 %: 2.65dB
0.01 %: 2.82dB



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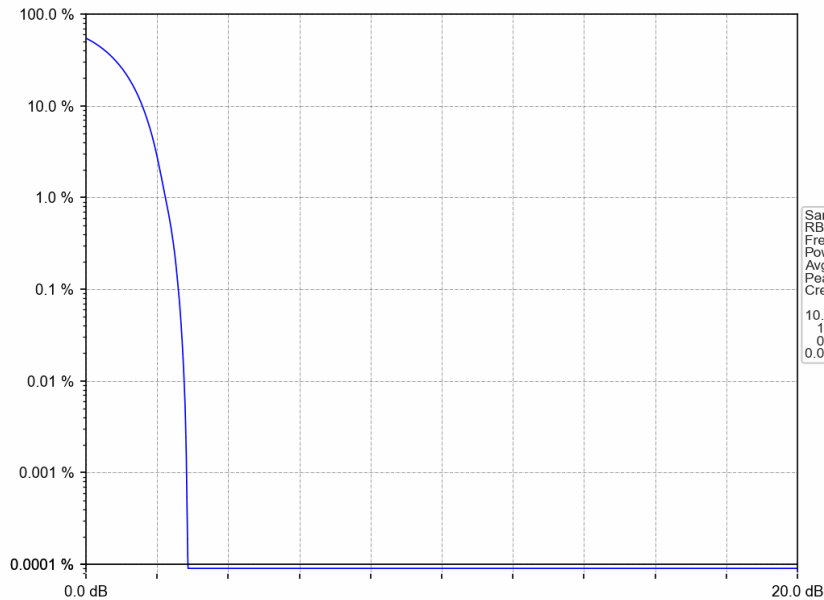
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Band IV_RMC_HCH_1752.6MHz_12.2kbps RMC_NTNV



Samples: 10.0M
RBW: 5.00MHz
Freq.: 1752.600MHz
Power:
Avg: 24.17dBm
Peak: 27.04dBm
Crest: 2.87dB

10.0 %: 1.58dB
1.0 %: 2.23dB
0.1 %: 2.60dB
0.01 %: 2.76dB



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99% & 26dB Bandwidth

Band IV_OBW

Test Result

Band IV						
ENV	Mode		Frequency (MHz)	99% Occupied Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1712.4	4.180	/	Pass
			1732.6	4.172	/	Pass
			1752.6	4.176	/	Pass



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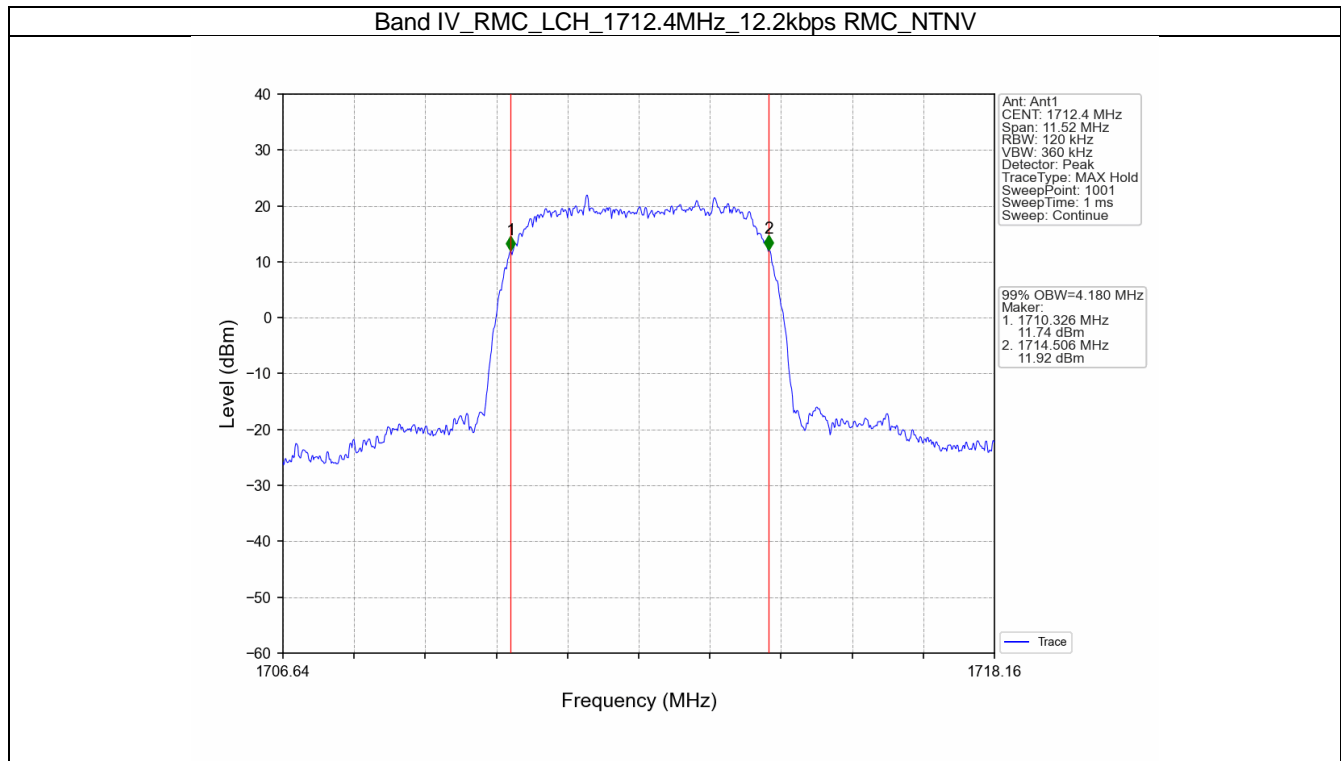
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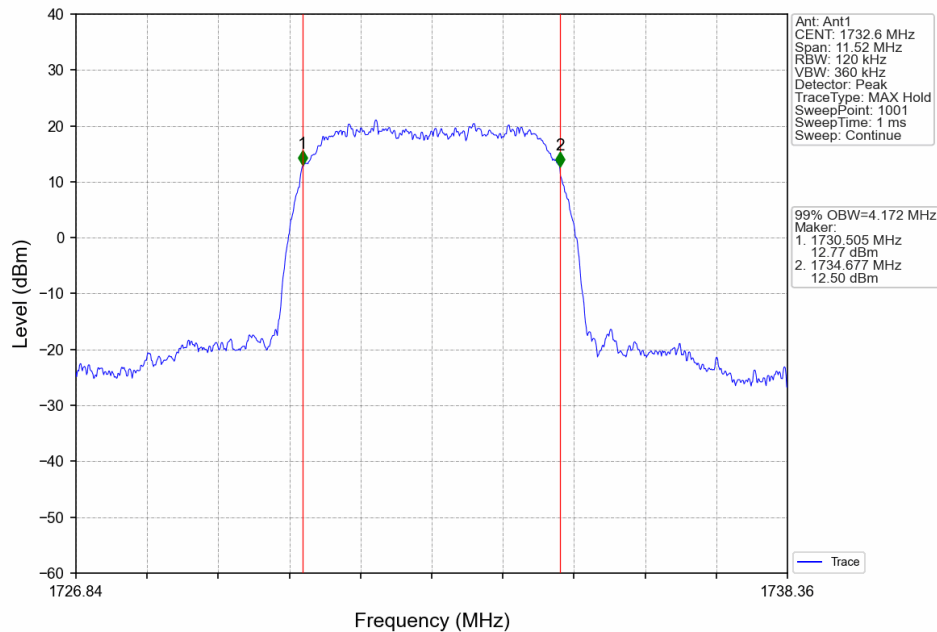
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Band IV_RMC_MCH_1732.6MHz_12.2kbps RMC_NTNV



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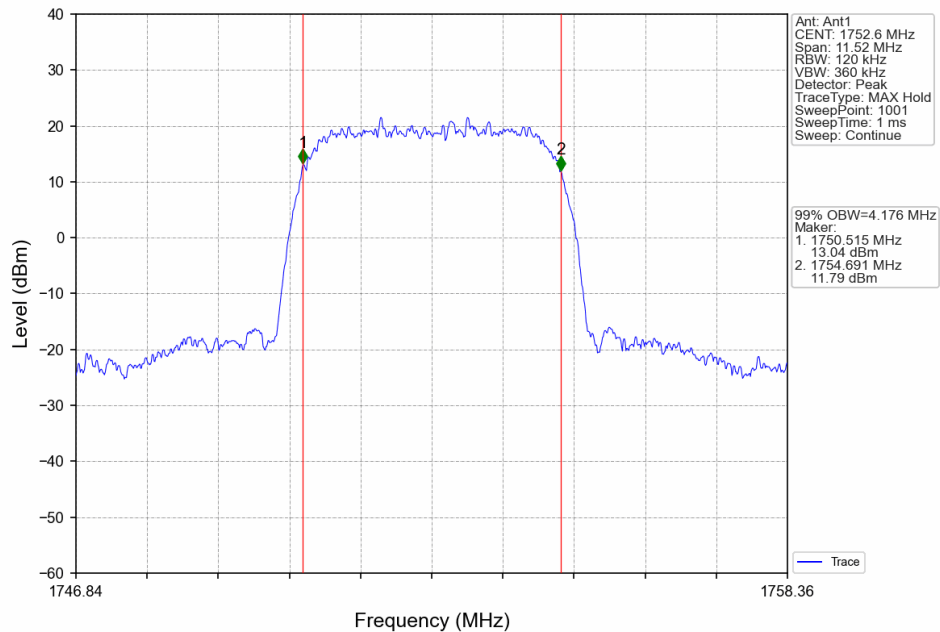
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Band IV_RMC_HCH_1752.6MHz_12.2kbps RMC_NTNV



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Band IV_XDB

Test Result

Band IV					
ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)	
	Network	Subset		Result	Limit
NTNV	RMC	12.2kbps RMC	1712.4	4.770	/
			1732.6	4.778	/
			1752.6	4.763	/
					Pass
					Pass
					Pass



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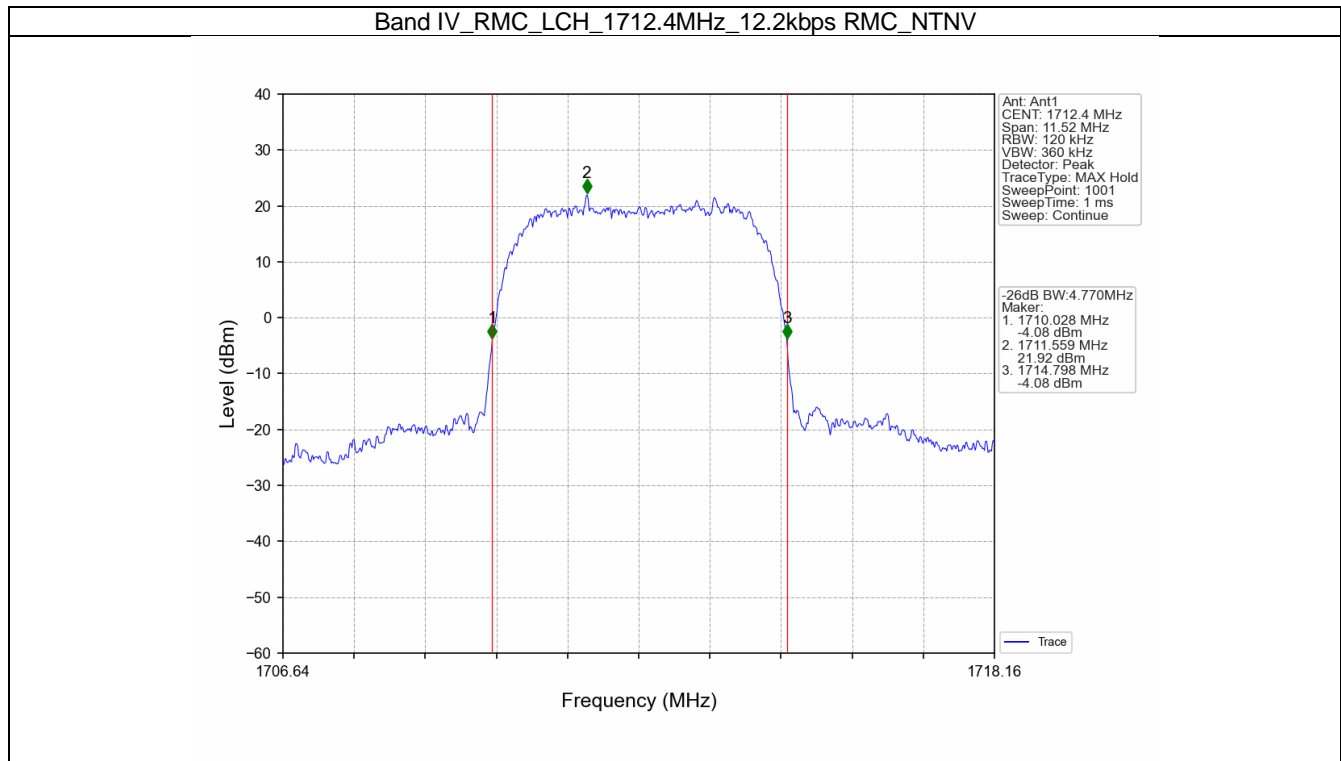
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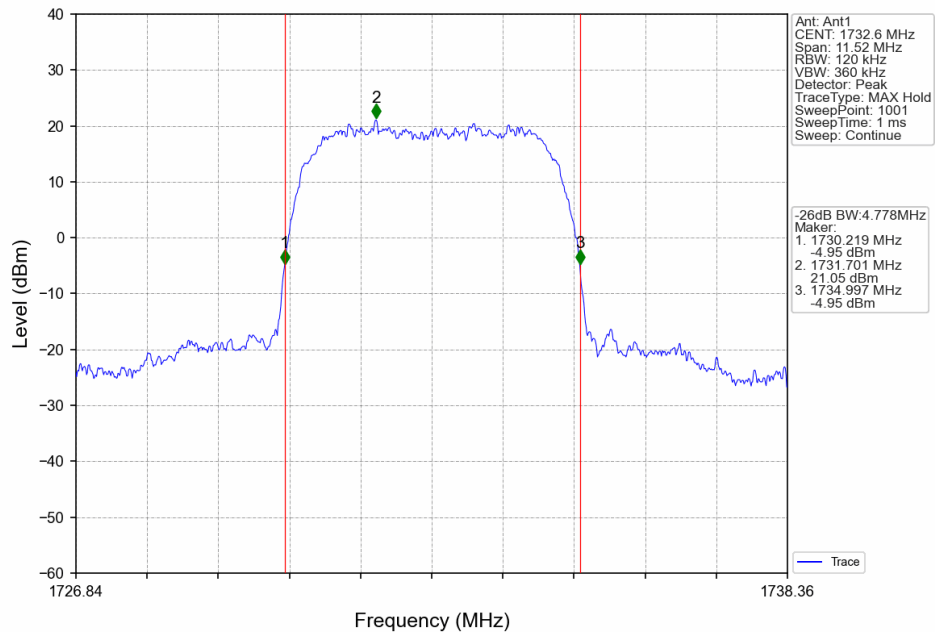
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Band IV_RMC_MCH_1732.6MHz_12.2kbps RMC_NTNV



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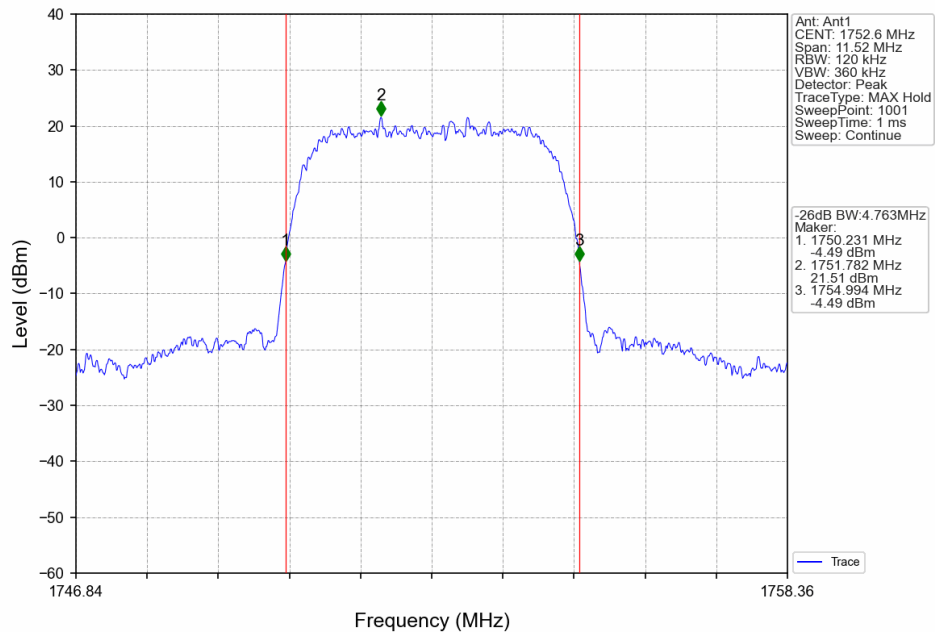
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Band IV_RMC_HCH_1752.6MHz_12.2kbps RMC_NTNV



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Spurious Emission & Band Edge

Band IV

Test Result

Band IV					
ENV	Mode		Frequency (MHz)	Spurious Emission	
	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



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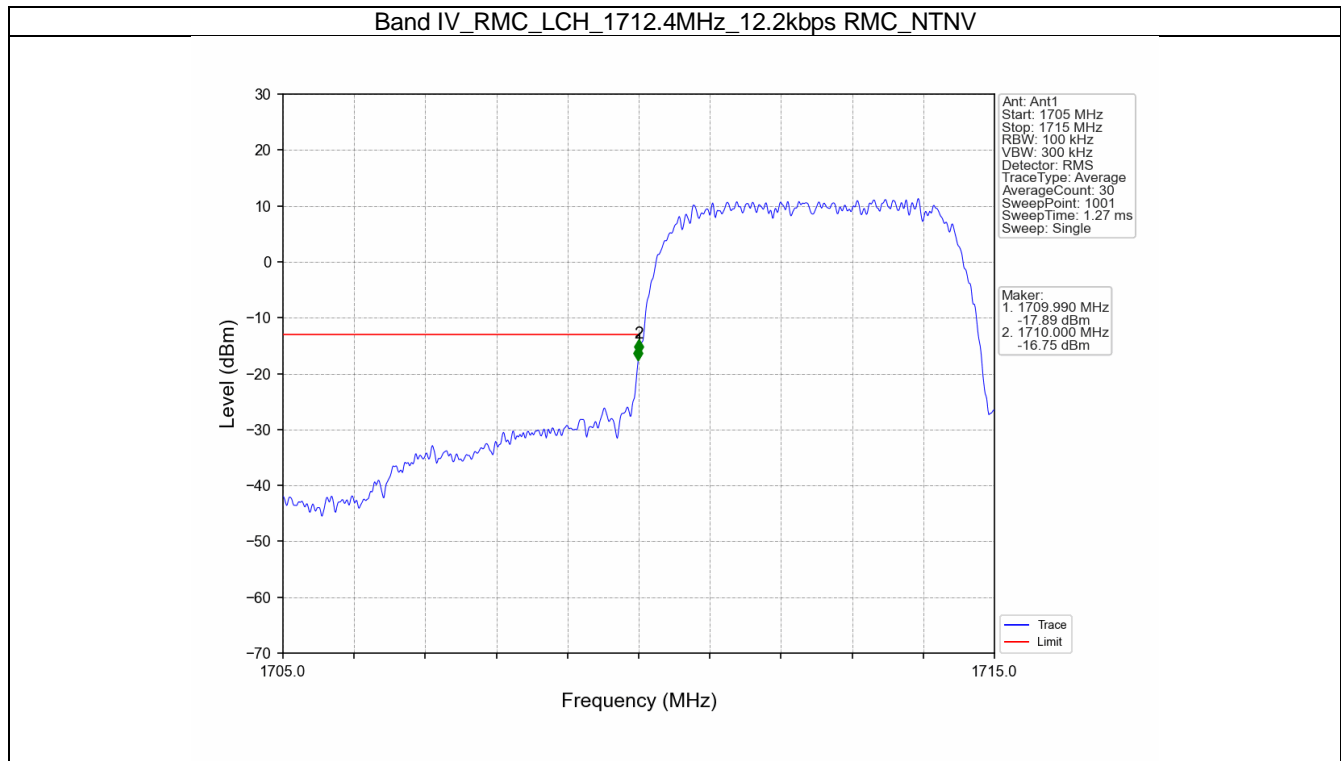
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Test Graph



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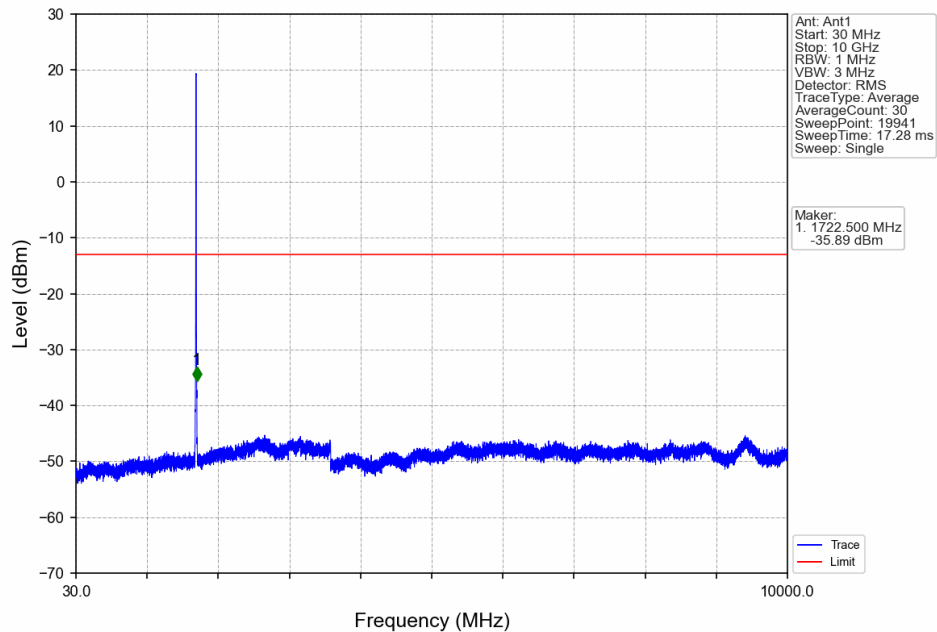
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Band IV_RMC_LCH_1712.4MHz_12.2kbps RMC_NTNV



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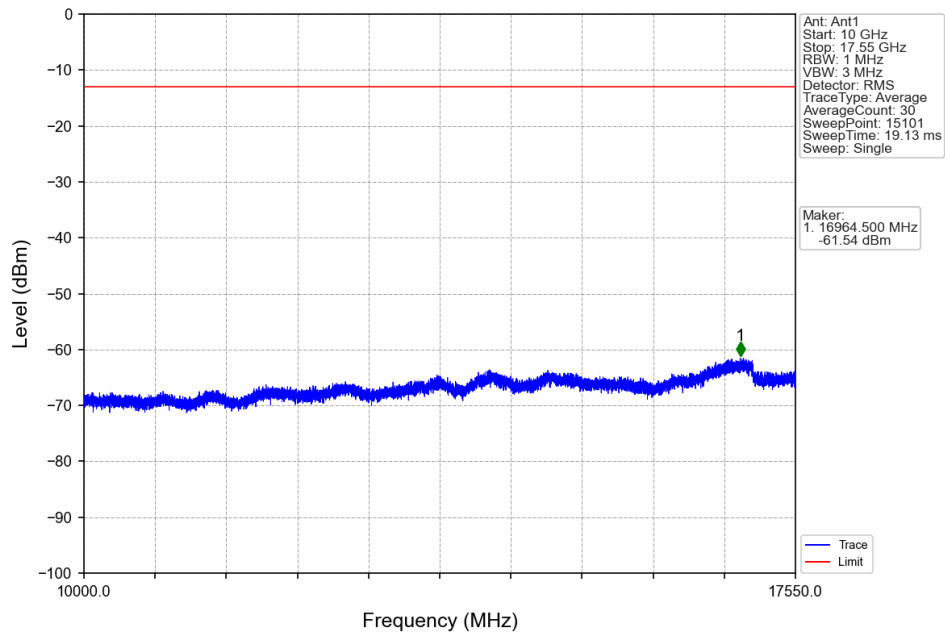
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Band IV_RMC_LCH_1712.4MHz_12.2kbps RMC_NTNV



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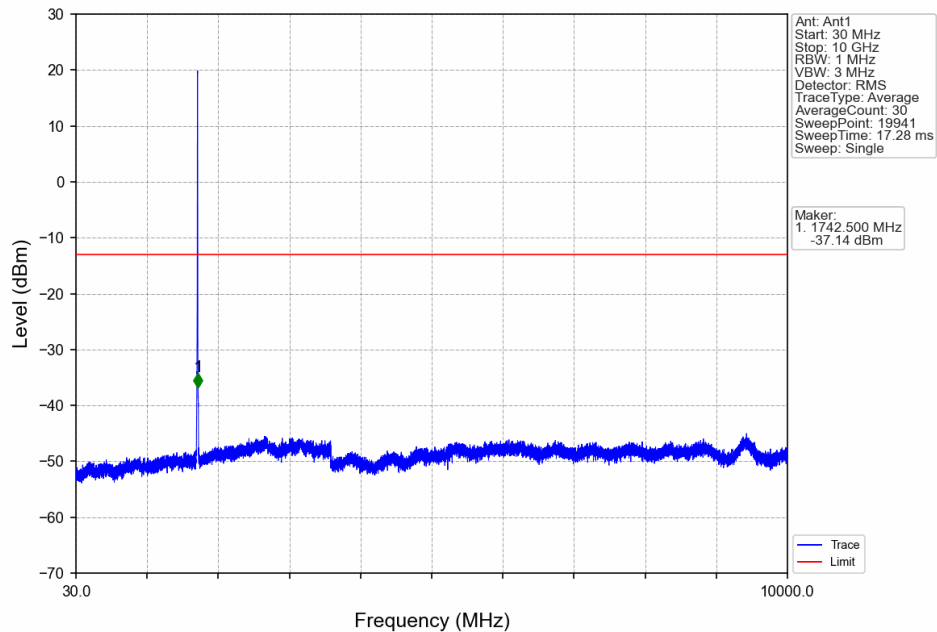
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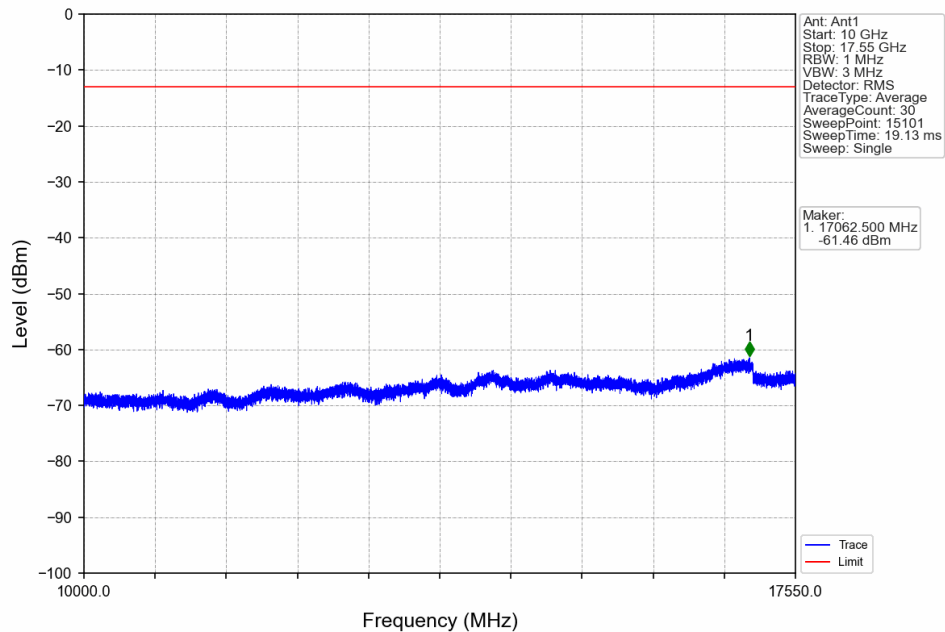


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Band IV_RMC_MCH_1732.6MHz_12.2kbps RMC_NTNV



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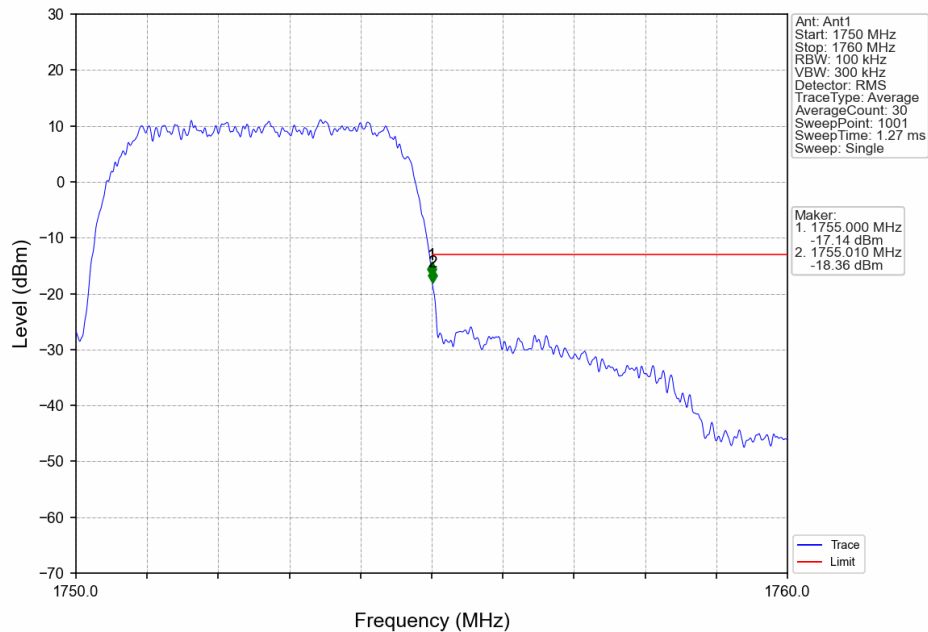
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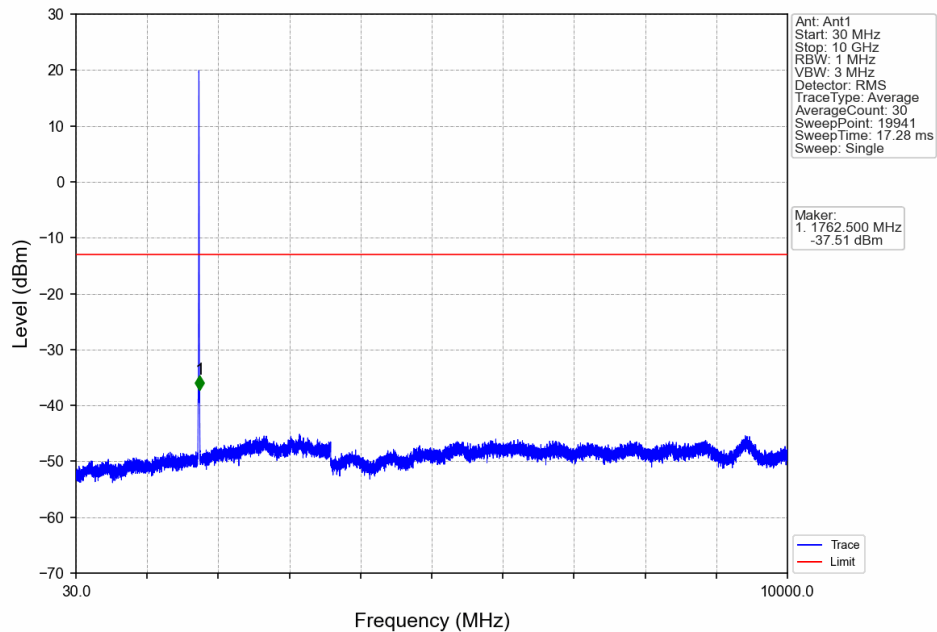


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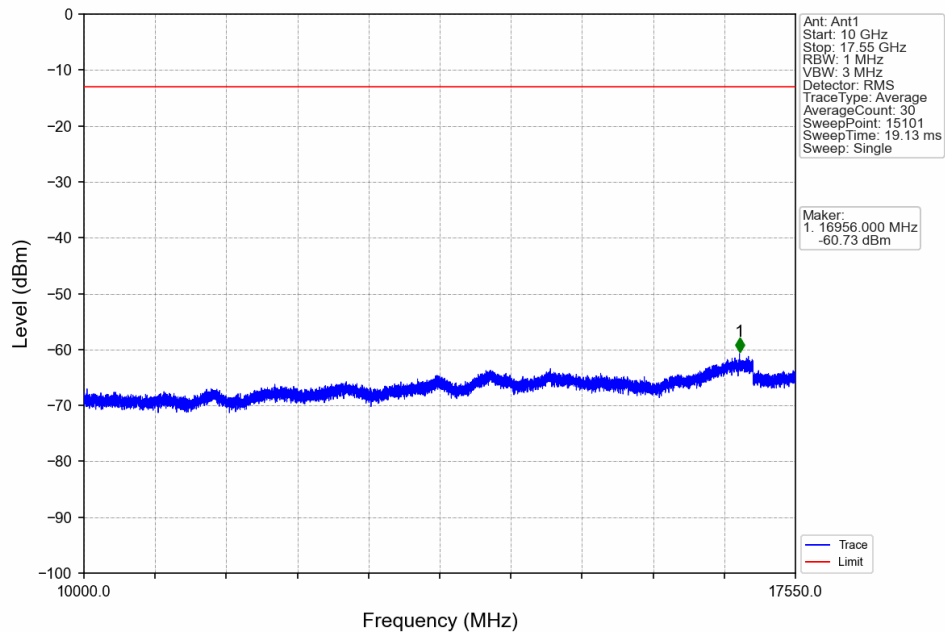


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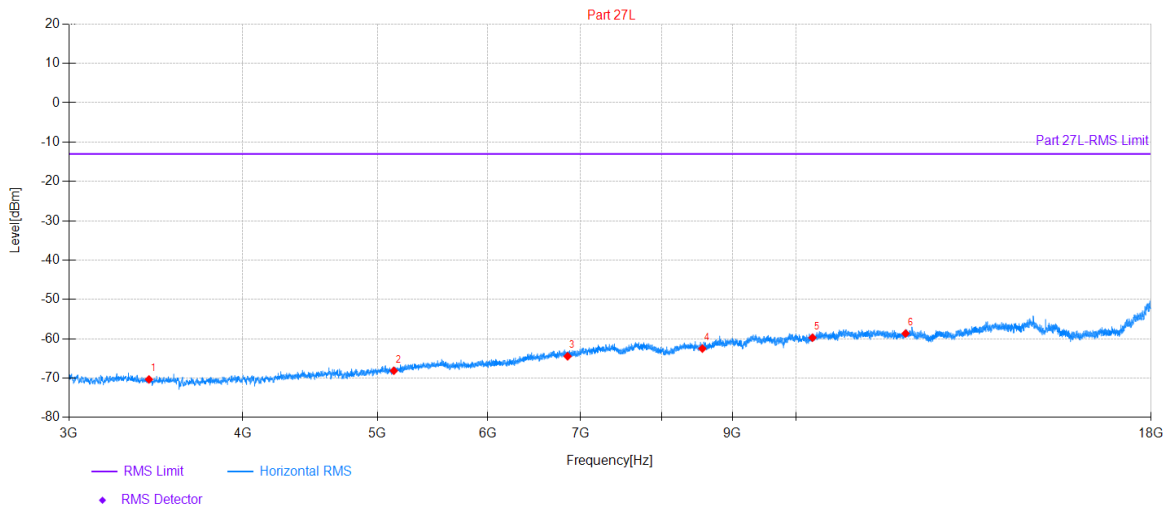
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Field Strength of Spurious Radiation

Test Band = WCDMA Band IV_ TM1

Test Channel = Low Channel



Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3424.8	44.64	-48.38	28.67	-70.33	-13.00	57.33	Horizontal
2	5137.2	43.16	-47.85	31.83	-68.12	-13.00	55.12	Horizontal
3	6849.6	42.35	-46.81	35.27	-64.45	-13.00	51.45	Horizontal
4	8562	39.88	-44.09	36.99	-62.48	-13.00	49.48	Horizontal
5	10274.4	38.19	-41.40	38.75	-59.72	-13.00	46.72	Horizontal
6	11986.8	36.88	-39.49	39.20	-58.67	-13.00	45.67	Horizontal



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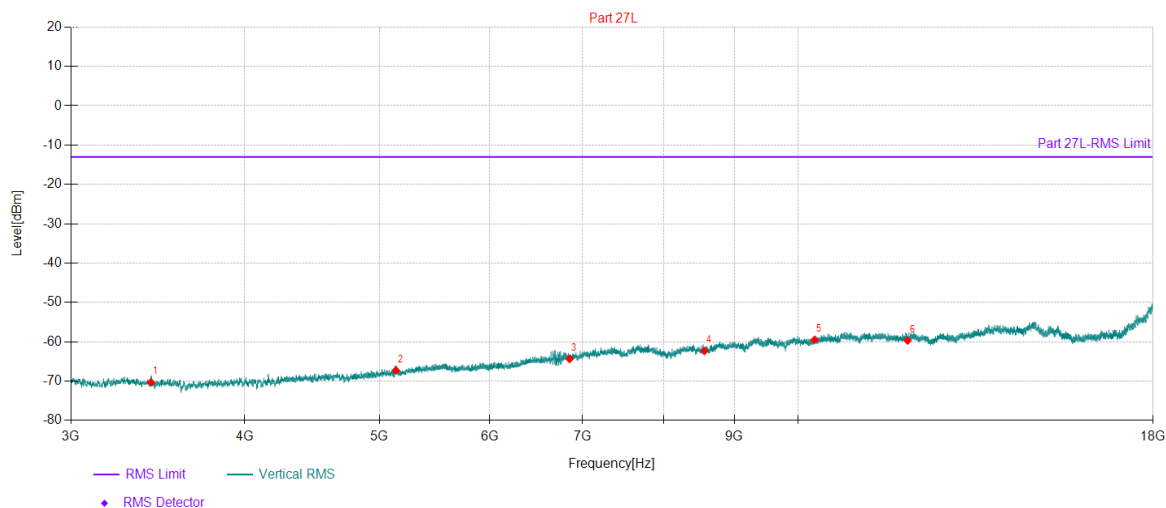
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Test Band = WCDMA Band IV_ TM1

Test Channel = Low Channel



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3424.8	44.69	-48.38	28.67	-70.28	-13.00	57.28	Vertical
2	5137.2	44.03	-47.85	31.83	-67.25	-13.00	54.25	Vertical
3	6849.6	42.43	-46.81	35.27	-64.37	-13.00	51.37	Vertical
4	8562	40.02	-44.09	36.99	-62.34	-13.00	49.34	Vertical
5	10274.4	38.40	-41.40	38.75	-59.51	-13.00	46.51	Vertical
6	11986.8	35.87	-39.49	39.20	-59.68	-13.00	46.68	Vertical



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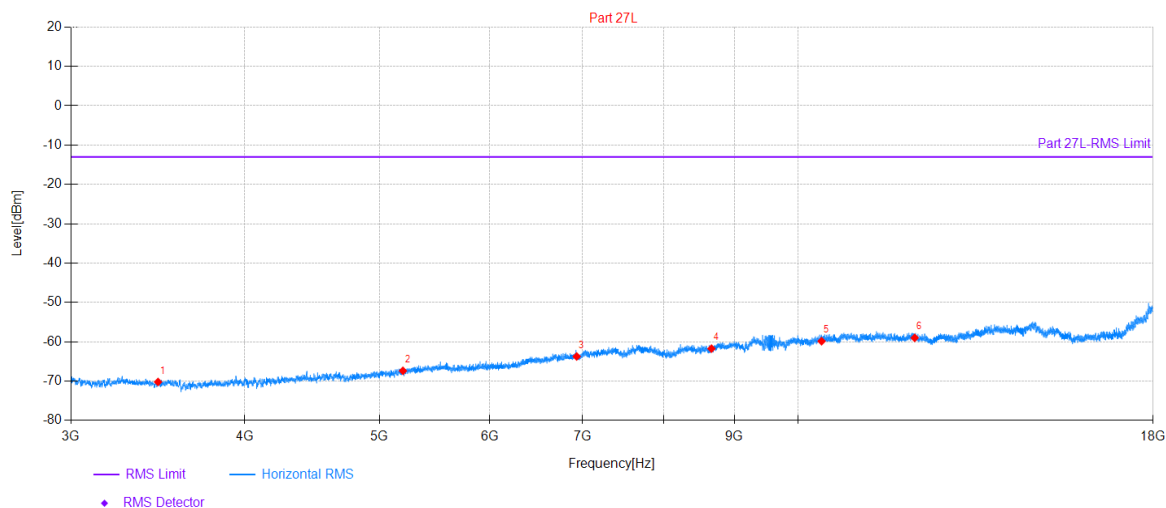
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Test Band = WCDMA Band IV_ TM1

Test Channel = Mid Channel



Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3465.2	44.69	-48.33	28.69	-70.21	-13.00	57.21	Horizontal
2	5197.8	43.79	-47.89	31.98	-67.38	-13.00	54.38	Horizontal
3	6930.4	42.77	-46.69	35.45	-63.73	-13.00	50.73	Horizontal
4	8663	40.46	-44.06	37.13	-61.74	-13.00	48.74	Horizontal
5	10395.6	37.80	-41.24	38.86	-59.84	-13.00	46.84	Horizontal
6	12128.2	36.82	-39.68	39.12	-59.00	-13.00	46.00	Horizontal



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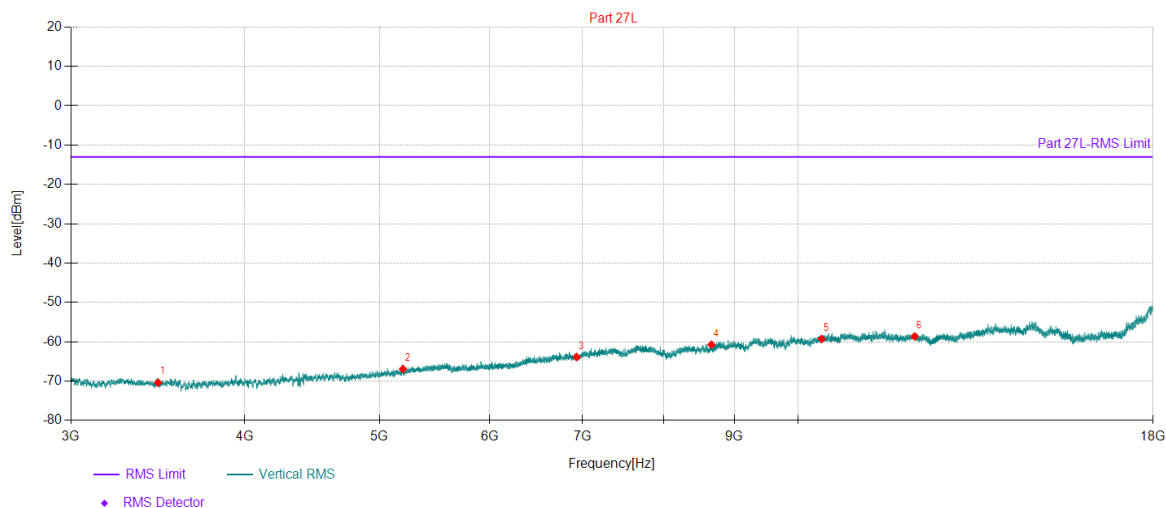
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Test Band = WCDMA Band IV_ TM1

Test Channel = Mid Channel



Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3465.2	44.49	-48.33	28.69	-70.41	-13.00	57.41	Vertical
2	5197.8	44.24	-47.89	31.98	-66.93	-13.00	53.93	Vertical
3	6930.4	42.62	-46.69	35.45	-63.88	-13.00	50.88	Vertical
4	8663	41.47	-44.06	37.13	-60.73	-13.00	47.73	Vertical
5	10395.6	38.35	-41.24	38.86	-59.29	-13.00	46.29	Vertical
6	12128.2	37.18	-39.68	39.12	-58.64	-13.00	45.64	Vertical



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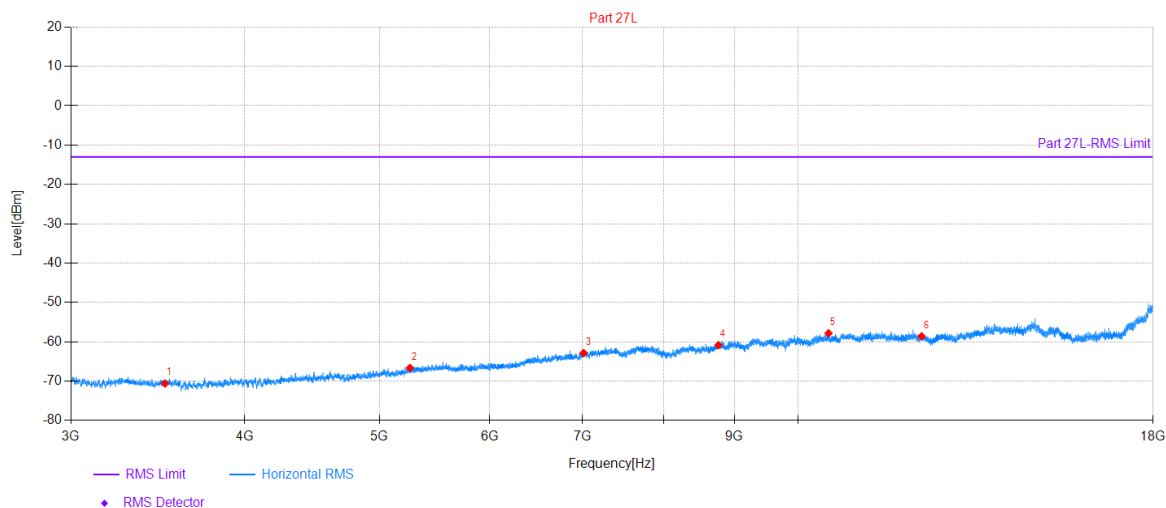
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Test Band = WCDMA Band IV_ TM1

Test Channel = High Channel



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3505.2	44.23	-48.29	28.71	-70.61	-13.00	57.61	Horizontal
2	5257.8	44.31	-47.83	32.12	-66.66	-13.00	53.66	Horizontal
3	7010.4	43.28	-46.52	35.63	-62.87	-13.00	49.87	Horizontal
4	8763	41.17	-44.04	37.27	-60.86	-13.00	47.86	Horizontal
5	10515.6	39.20	-40.74	38.96	-57.84	-13.00	44.84	Horizontal
6	12268.2	37.37	-39.76	39.04	-58.61	-13.00	45.61	Horizontal



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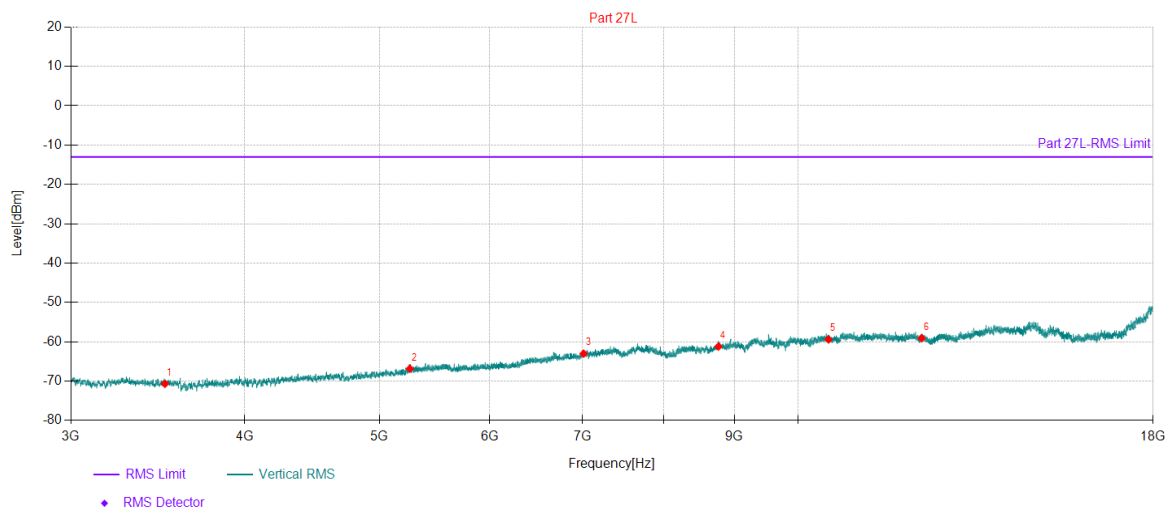
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Test Band = WCDMA Band IV_ TM1

Test Channel = High Channel



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3505.2	44.17	-48.29	28.71	-70.67	-13.00	57.67	Vertical
2	5257.8	44.14	-47.83	32.12	-66.83	-13.00	53.83	Vertical
3	7010.4	43.14	-46.52	35.63	-63.01	-13.00	50.01	Vertical
4	8763	40.82	-44.04	37.27	-61.21	-13.00	48.21	Vertical
5	10515.6	37.64	-40.74	38.96	-59.40	-13.00	46.40	Vertical
6	12268.2	36.89	-39.76	39.04	-59.09	-13.00	46.09	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



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Frequency Stability

Band IV

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	3.4	6.423	0.0038	/	Pass
			3.89	6.452	0.0038	/	Pass
			4.48	6.931	0.0040	/	Pass
		-30	3.89	6.137	0.0036	/	Pass
		-20	3.89	6.559	0.0038	/	Pass
		-10	3.89	6.495	0.0038	/	Pass
		0	3.89	6.630	0.0039	/	Pass
		10	3.89	5.980	0.0035	/	Pass
		30	3.89	6.216	0.0036	/	Pass
		40	3.89	6.258	0.0037	/	Pass
		50	3.89	6.194	0.0036	/	Pass
	1732.6	20	3.4	-2.961	-0.0017	/	Pass
			3.89	-3.161	-0.0018	/	Pass
			4.48	-2.904	-0.0017	/	Pass
		-30	3.89	-2.911	-0.0017	/	Pass
		-20	3.89	-2.668	-0.0015	/	Pass
		-10	3.89	-2.561	-0.0015	/	Pass
		0	3.89	-2.975	-0.0017	/	Pass
		10	3.89	-2.961	-0.0017	/	Pass
		30	3.89	-2.847	-0.0016	/	Pass
		40	3.89	-2.739	-0.0016	/	Pass
		50	3.89	-2.782	-0.0016	/	Pass
	1752.6	20	3.4	-3.405	-0.0019	/	Pass
			3.89	-3.262	-0.0019	/	Pass
			4.48	-3.405	-0.0019	/	Pass
		-30	3.89	-3.576	-0.0020	/	Pass
		-20	3.89	-3.669	-0.0021	/	Pass
		-10	3.89	-3.490	-0.0020	/	Pass
		0	3.89	-3.433	-0.0020	/	Pass
		10	3.89	-3.583	-0.0020	/	Pass
		30	3.89	-3.541	-0.0020	/	Pass
		40	3.89	-3.304	-0.0019	/	Pass
		50	3.89	-3.612	-0.0021	/	Pass

---End of Attachment---



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