



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

Report No.: SZCR240400116001

Rev.: 01

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Appendix B.4

WCDMA Band IV



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Shenzhen Branch Wireless Laboratory

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1. Effective (Isotropic) Radiated Power Output Data

1.1 Band IV_EIRP

1.1.1 Test Result

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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	23.38	-2.20	21.18	<=30	Pass
			1732.6	23.31	-2.20	21.11	<=30	Pass
			1752.6	23.39	-2.20	21.19	<=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	3.7	6.332	0.0037	/	Pass
			3.91	6.763	0.0039	/	Pass
			4.4	6.685	0.0039	/	Pass
		-30	3.91	6.105	0.0036	/	Pass
		-20	3.91	6.275	0.0037	/	Pass
		-10	3.91	6.871	0.0040	/	Pass
		0	3.91	6.739	0.0039	/	Pass
		10	3.91	6.722	0.0039	/	Pass
		30	3.91	6.709	0.0039	/	Pass
		40	3.91	6.780	0.0040	/	Pass
		50	3.91	6.759	0.0039	/	Pass
	1732.6	20	3.7	-3.298	-0.0019	/	Pass
			3.91	-3.719	-0.0021	/	Pass
			4.4	-3.467	-0.0020	/	Pass
		-30	3.91	-3.296	-0.0019	/	Pass
		-20	3.91	-2.984	-0.0017	/	Pass
		-10	3.91	-3.361	-0.0019	/	Pass
		0	3.91	-2.979	-0.0017	/	Pass
		10	3.91	-3.018	-0.0017	/	Pass
		30	3.91	-3.114	-0.0018	/	Pass
		40	3.91	-2.979	-0.0017	/	Pass
		50	3.91	-3.448	-0.0020	/	Pass
	1752.6	20	3.7	-5.604	-0.0032	/	Pass
			3.91	-5.665	-0.0032	/	Pass
			4.4	-5.614	-0.0032	/	Pass
		-30	3.91	-5.937	-0.0034	/	Pass
		-20	3.91	-5.454	-0.0031	/	Pass
		-10	3.91	-5.359	-0.0031	/	Pass
		0	3.91	-5.754	-0.0033	/	Pass
		10	3.91	-5.175	-0.0030	/	Pass
		30	3.91	-5.152	-0.0029	/	Pass
		40	3.91	-5.642	-0.0032	/	Pass
		50	3.91	-5.721	-0.0033	/	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	4.171	/	Pass
			1732.6	4.166	/	Pass
			1752.6	4.170	/	Pass



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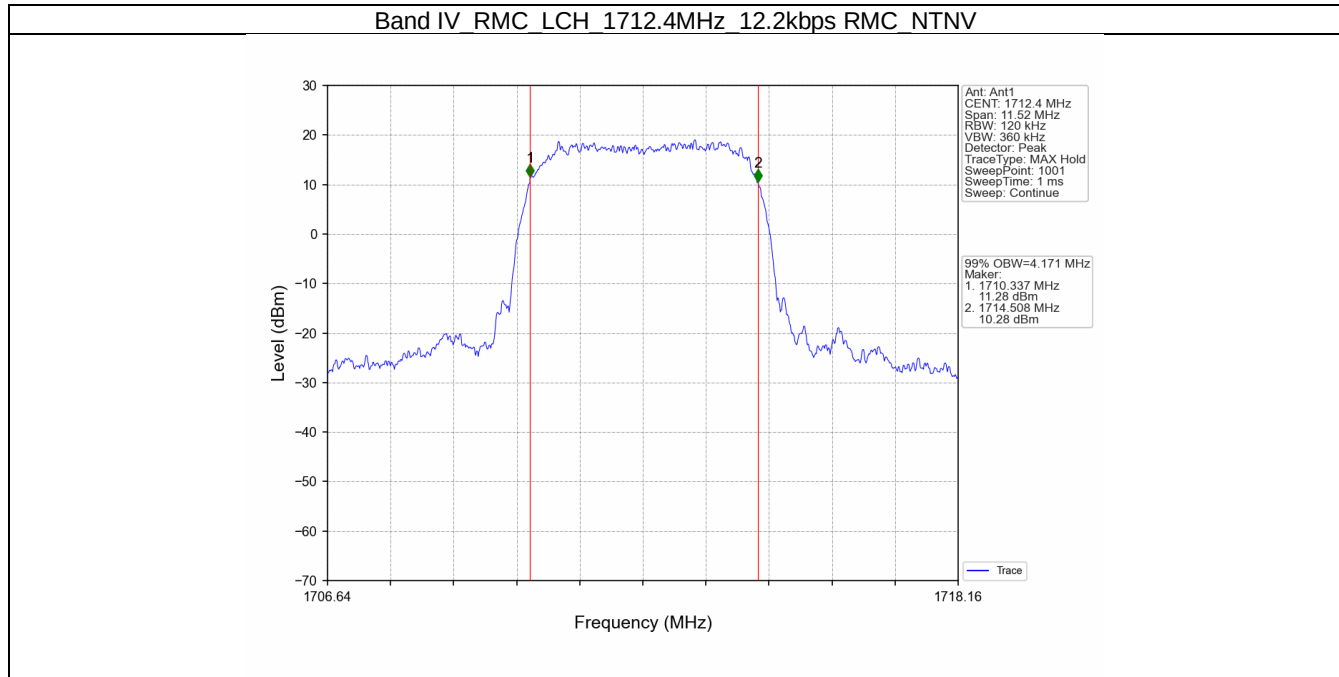
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3.1.2 Test Graph



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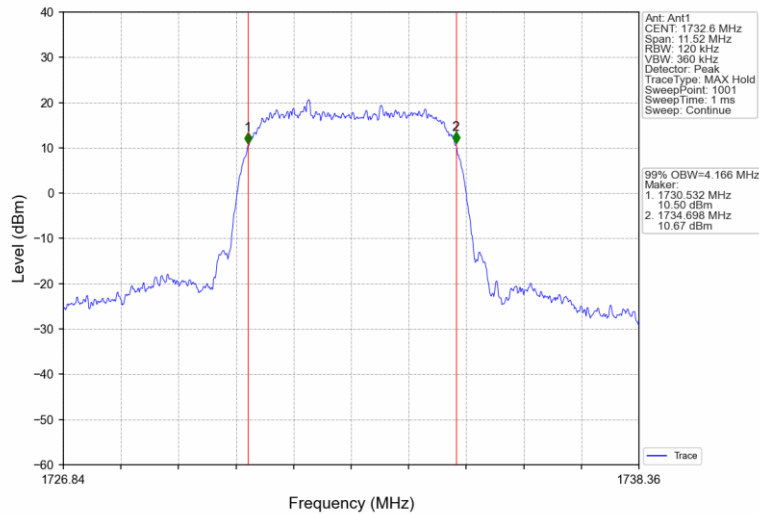
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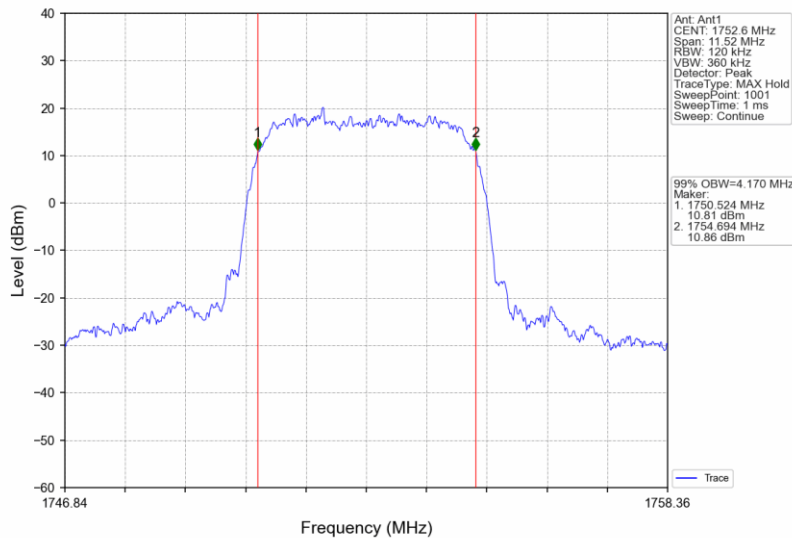
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Band IV_RMC_MCH_1732.6MHz_12.2kbps RMC_NTNV



Band IV_RMC_HCH_1752.6MHz_12.2kbps RMC_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	4.752	/	Pass
			1732.6	4.730	/	Pass
			1752.6	4.722	/	Pass



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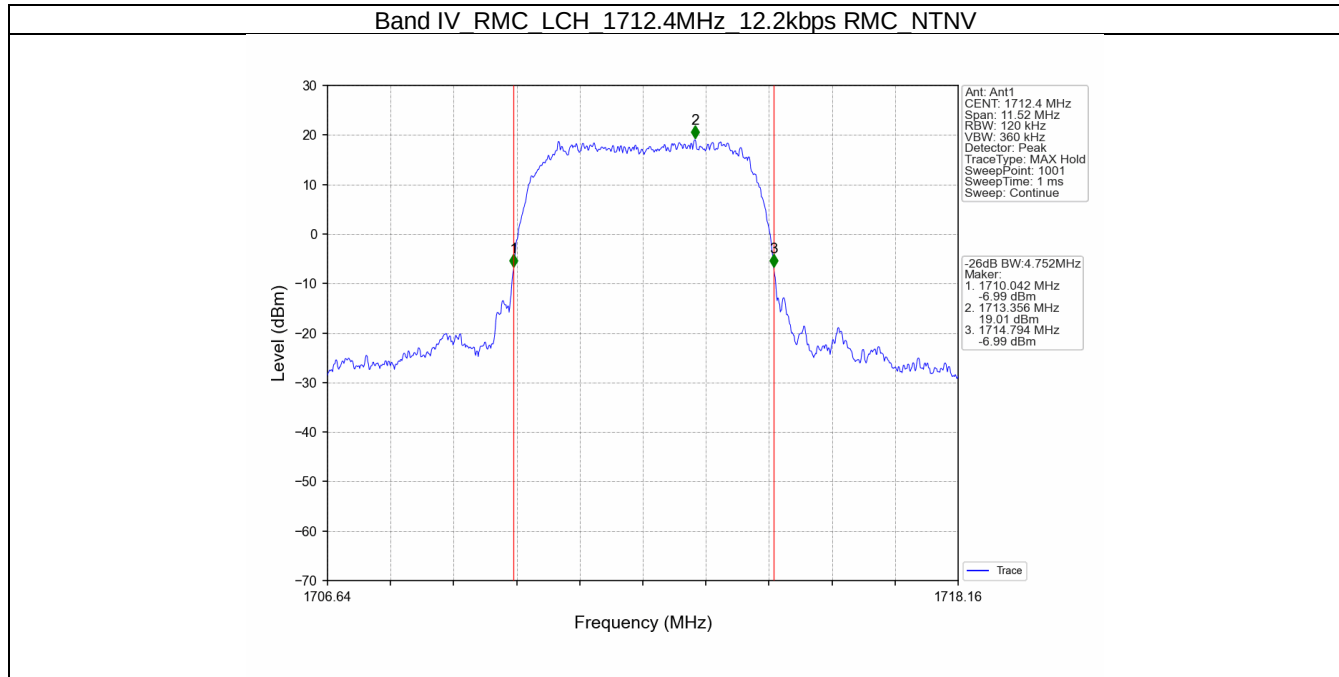
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3.2.2 Test Graph



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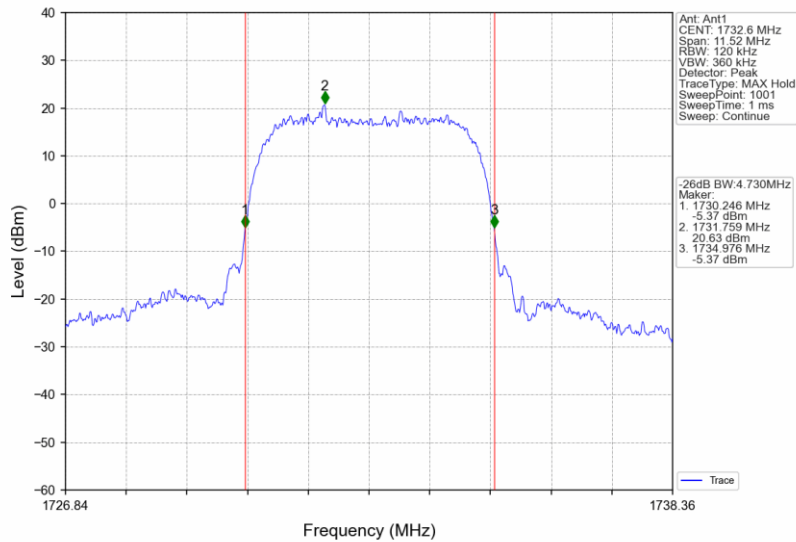
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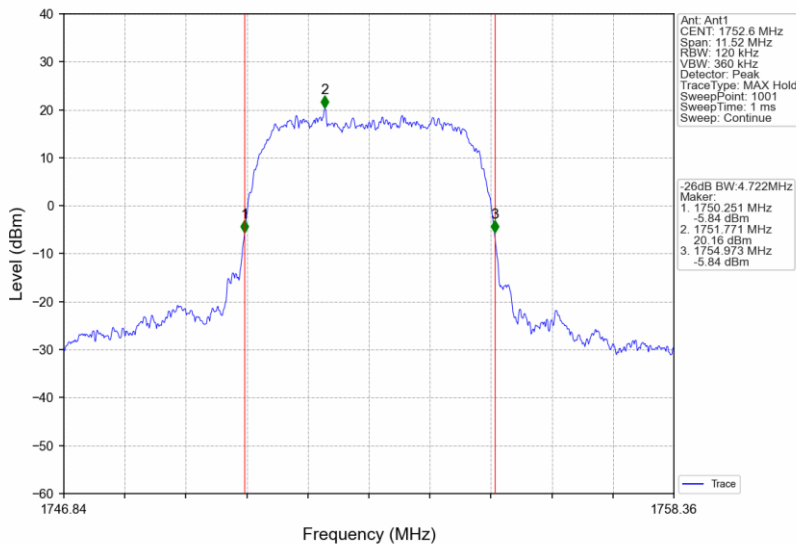
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Band IV_RMC_MCH_1732.6MHz_12.2kbps RMC_NTNV



Band IV_RMC_HCH_1752.6MHz_12.2kbps RMC_NTNV



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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	2.96	<=13	Pass
			1732.6	3.12	<=13	Pass
			1752.6	2.94	<=13	Pass



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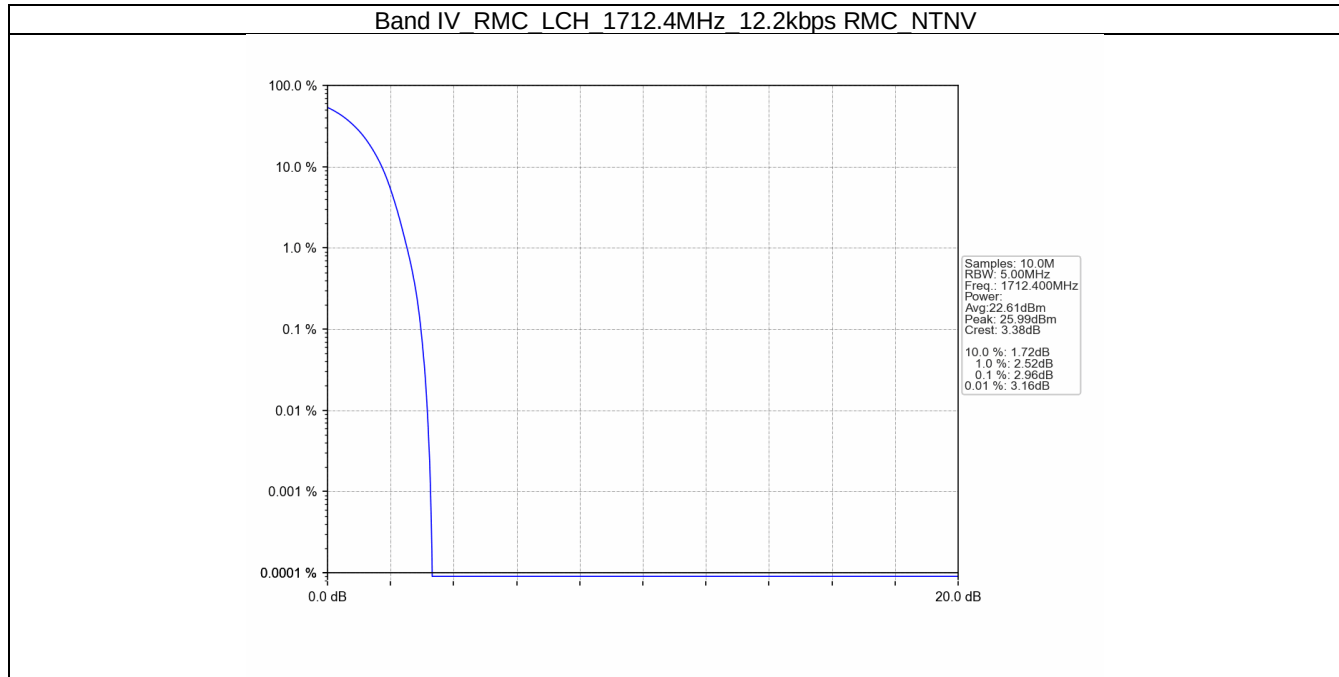
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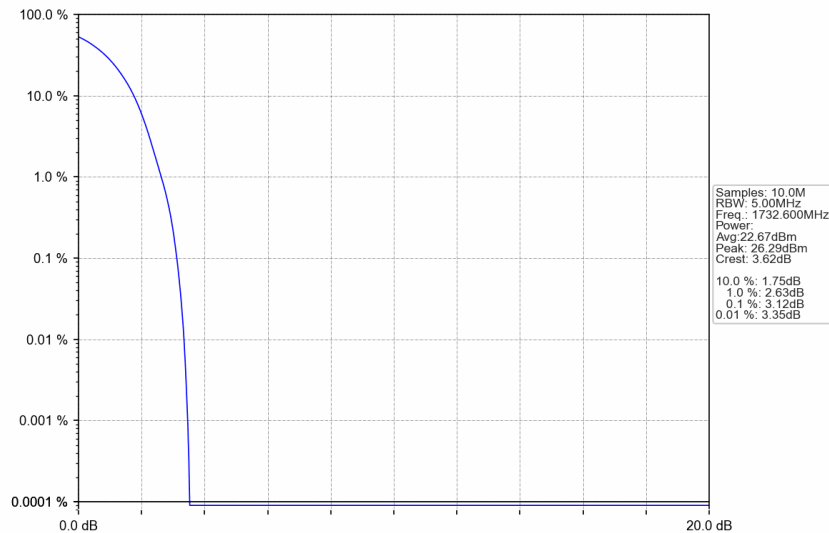
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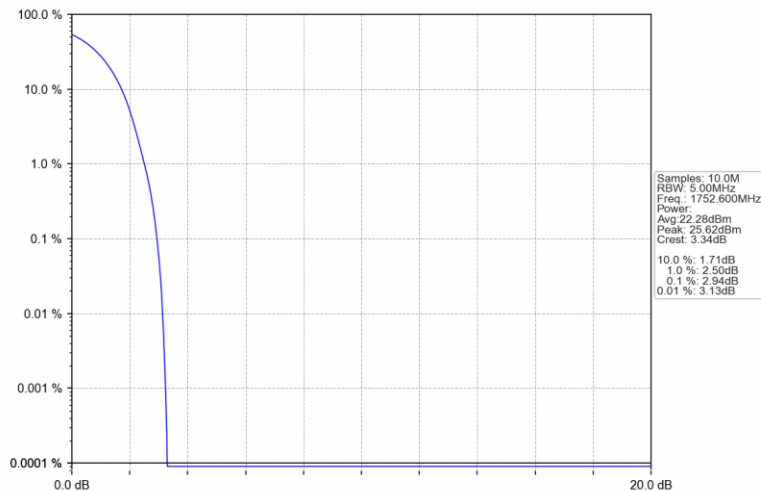
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Band IV_RMC_MCH_1732.6MHz_12.2kbps RMC_NTNV



Band IV_RMC_HCH_1752.6MHz_12.2kbps RMC_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



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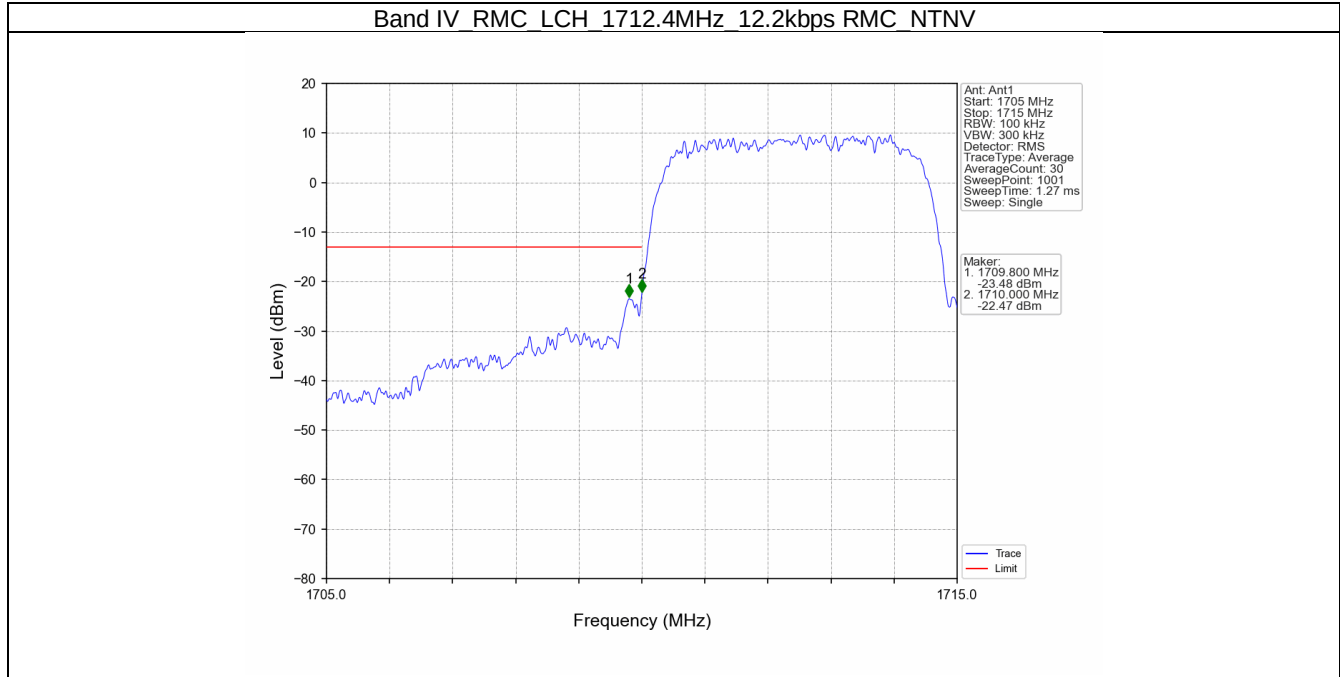
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5.1.2 Test Graph



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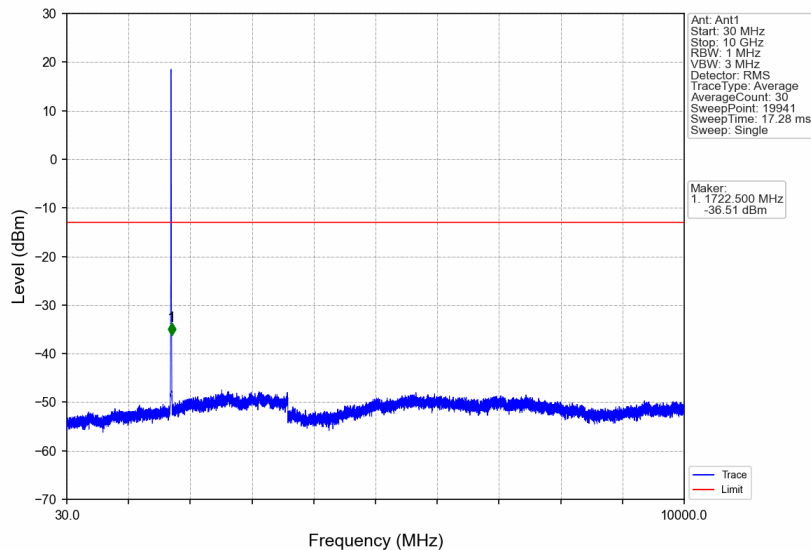
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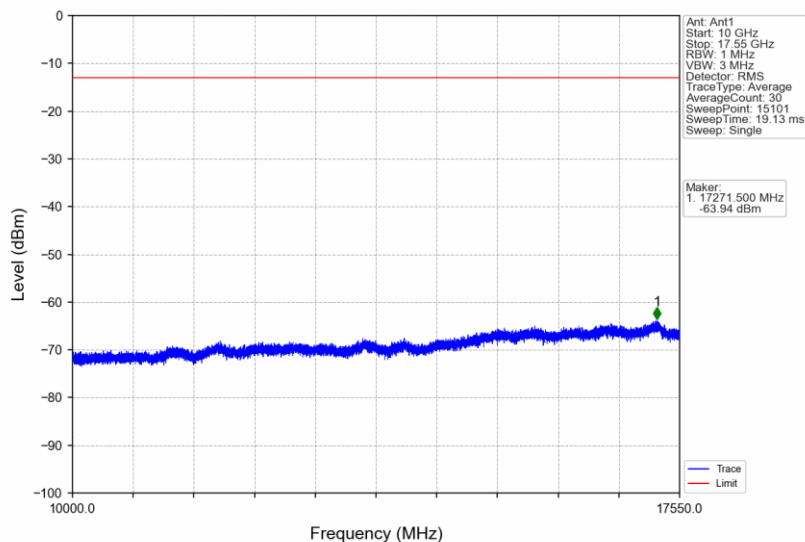
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Band IV_RMC_LCH_1712.4MHz_12.2kbps RMC_NTNV



Band IV_RMC_LCH_1712.4MHz_12.2kbps RMC_NTNV



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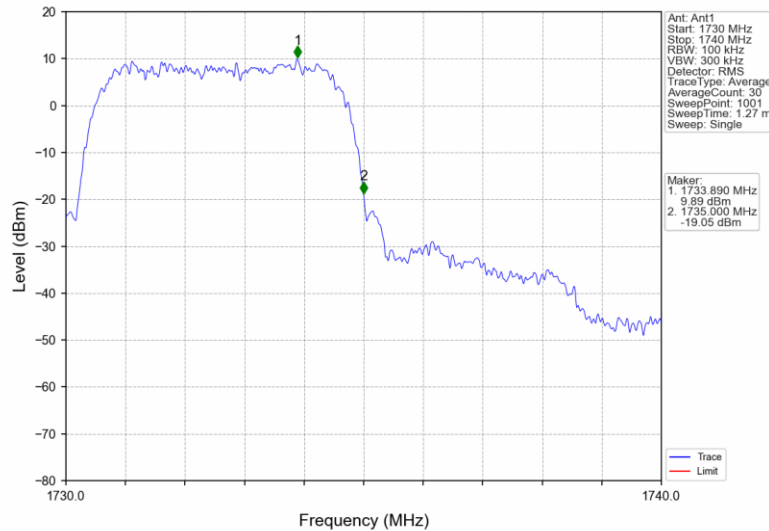
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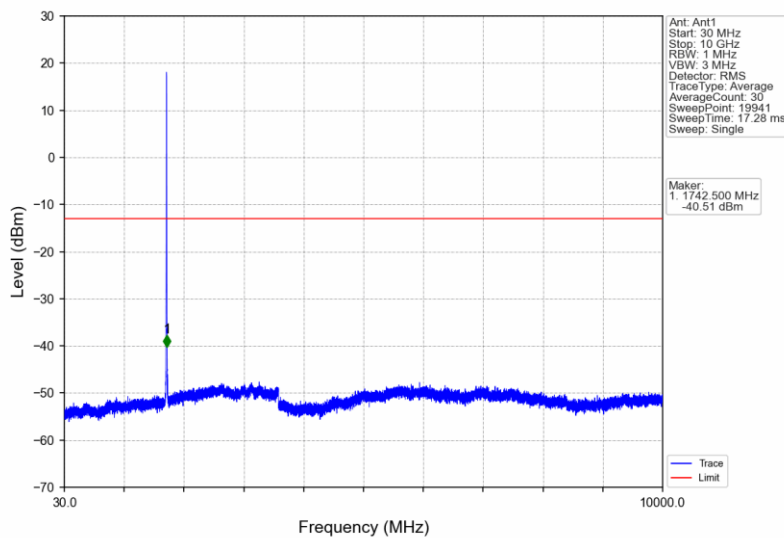
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Band IV_RMC_MCH_1732.6MHz_12.2kbps RMC_NTNV



Band IV_RMC_MCH_1732.6MHz_12.2kbps RMC_NTNV



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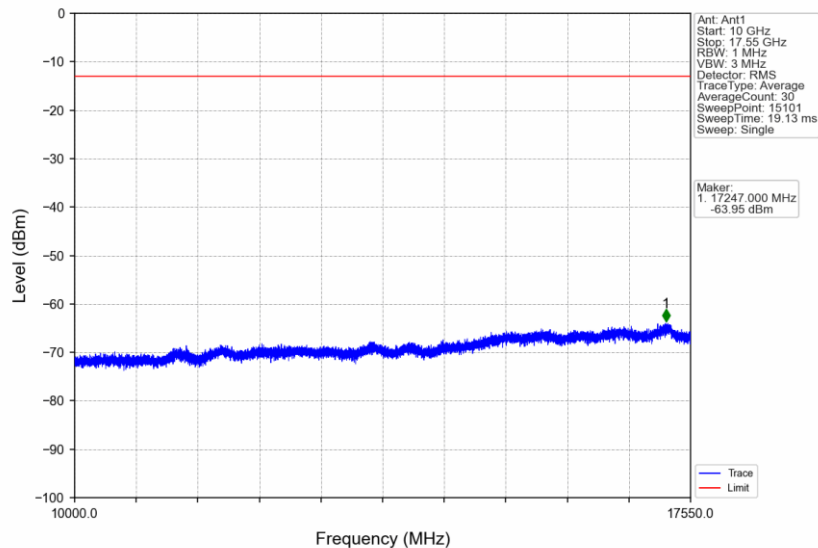
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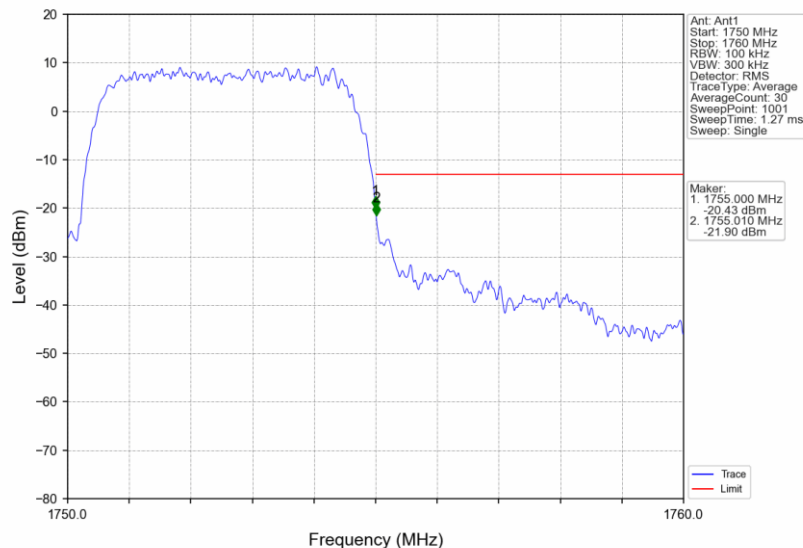
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Band IV_RMC_MCH_1732.6MHz_12.2kbps RMC_NTNV



Band IV_RMC_HCH_1752.6MHz_12.2kbps RMC_NTNV



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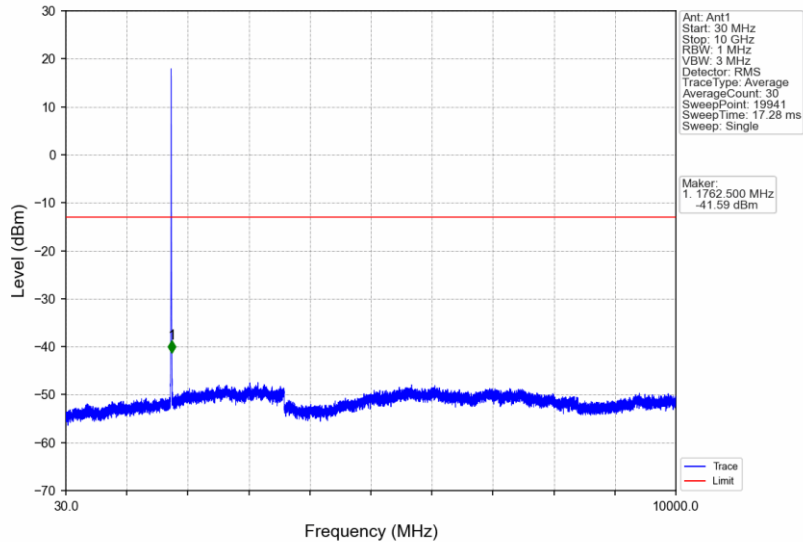
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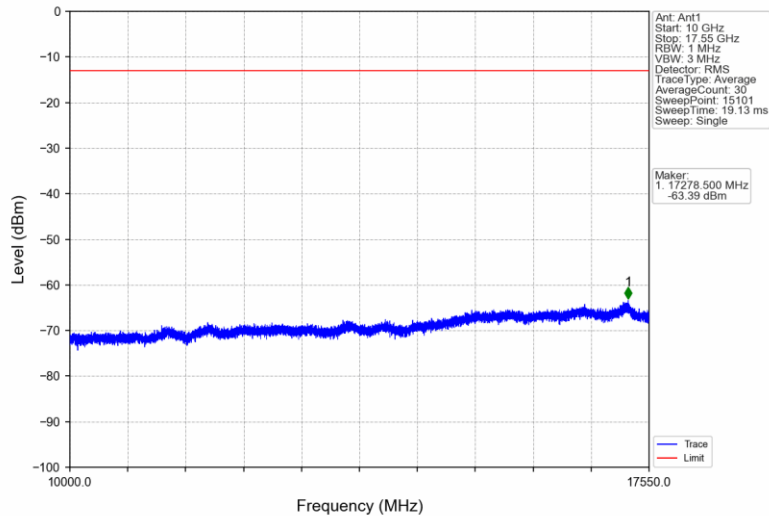
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Band IV_RMC_HCH_1752.6MHz_12.2kbps RMC_NTNV



Band IV_RMC_HCH_1752.6MHz_12.2kbps RMC_NTNV



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6. Field Strength of Spurious Radiation

Test Band = BIV ANT13_ 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	44.61	28.68	-47.01	-68.98	-13.00	55.98	Horizontal
2	5137.2000	44.09	31.73	-47.01	-66.45	-13.00	53.45	Horizontal
3	6849.6000	43.76	35.44	-46.12	-62.18	-13.00	49.18	Horizontal
4	8562.0000	41.15	36.14	-43.29	-61.26	-13.00	48.26	Horizontal
5	10274.400	37.73	38.73	-40.45	-59.25	-13.00	46.25	Horizontal
6	11986.800	36.86	39.80	-38.63	-57.23	-13.00	44.23	Horizontal

Final Data List								
NO	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3424.8000	44.84	28.68	-47.01	-68.75	-13.00	55.75	Vertical
2	5137.2000	44.45	31.73	-47.01	-66.09	-13.00	53.09	Vertical
3	6849.6000	43.56	35.44	-46.12	-62.38	-13.00	49.38	Vertical
4	8562.0000	41.05	36.14	-43.29	-61.36	-13.00	48.36	Vertical
5	10274.400	37.66	38.73	-40.45	-59.32	-13.00	46.32	Vertical
6	11986.800	36.70	39.80	-38.63	-57.39	-13.00	44.39	Vertical



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Test Band = BIV ANT13_ 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	44.90	28.69	-46.95	-68.62	-13.00	55.62	Horizontal
2	5197.8000	43.95	31.87	-46.92	-66.36	-13.00	53.36	Horizontal
3	6930.4000	43.14	35.63	-45.99	-62.48	-13.00	49.48	Horizontal
4	8663.0000	41.03	36.13	-43.17	-61.27	-13.00	48.27	Horizontal
5	10395.600	37.63	38.88	-40.47	-59.22	-13.00	46.22	Horizontal
6	12128.200	36.72	39.79	-38.80	-57.55	-13.00	44.55	Horizontal

Final Data List								
NO	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3465.2000	43.83	28.69	-46.95	-69.69	-13.00	56.69	Vertical
2	5197.8000	43.69	31.87	-46.92	-66.62	-13.00	53.62	Vertical
3	6930.4000	43.34	35.63	-45.99	-62.28	-13.00	49.28	Vertical
4	8663.0000	40.83	36.13	-43.17	-61.47	-13.00	48.47	Vertical
5	10395.600	37.49	38.88	-40.47	-59.36	-13.00	46.36	Vertical
6	12128.200	36.94	39.79	-38.80	-57.33	-13.00	44.33	Vertical



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Test Band = BIV ANT13_ 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	43.98	28.71	-46.94	-69.51	-13.00	56.51	Horizontal
2	5257.8000	44.00	32.02	-47.04	-66.28	-13.00	53.28	Horizontal
3	7010.4000	43.38	35.81	-45.73	-61.80	-13.00	48.80	Horizontal
4	8763.0000	40.73	36.12	-43.26	-61.67	-13.00	48.67	Horizontal
5	10515.600	38.00	39.02	-40.30	-58.54	-13.00	45.54	Horizontal
6	12268.200	37.46	39.77	-38.38	-56.41	-13.00	43.41	Horizontal

Final Data List								
NO	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3505.2000	45.34	28.71	-46.94	-68.15	-13.00	55.15	Vertical
2	5257.8000	44.45	32.02	-47.04	-65.83	-13.00	52.83	Vertical
3	7010.4000	43.44	35.81	-45.73	-61.74	-13.00	48.74	Vertical
4	8763.0000	40.93	36.12	-43.26	-61.47	-13.00	48.47	Vertical
5	10515.600	38.00	39.02	-40.30	-58.54	-13.00	45.54	Vertical
6	12268.200	36.62	39.77	-38.38	-57.25	-13.00	44.25	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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