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# Appendix B.3

## 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	22.36	1.10	23.46	<=30	Pass
			1732.6	22.41	1.10	23.51	<=30	Pass
			1752.6	22.23	1.10	23.33	<=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	2.66	<=13	Pass
			1732.6	2.68	<=13	Pass
			1752.6	2.62	<=13	Pass



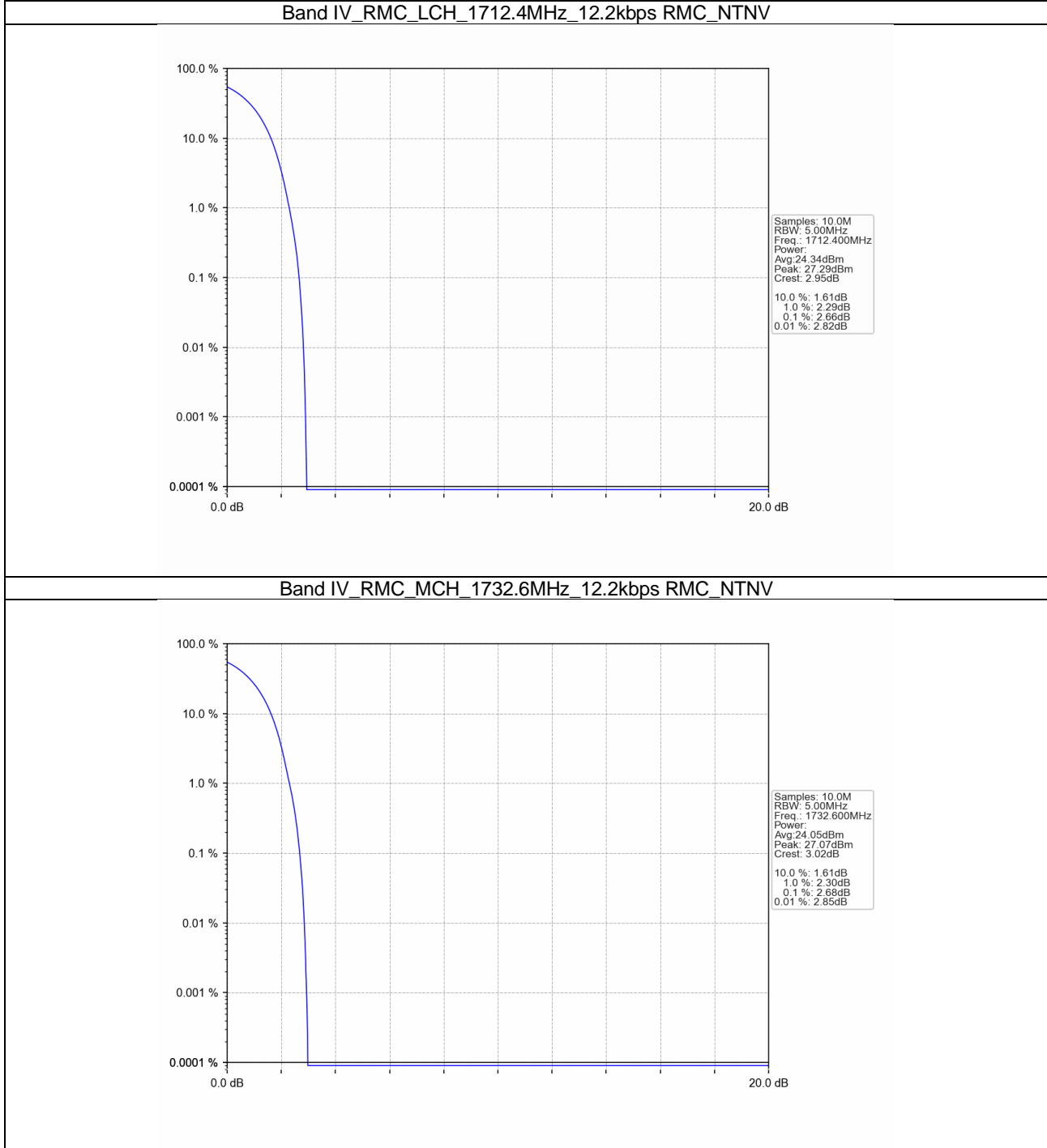
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Test Graph



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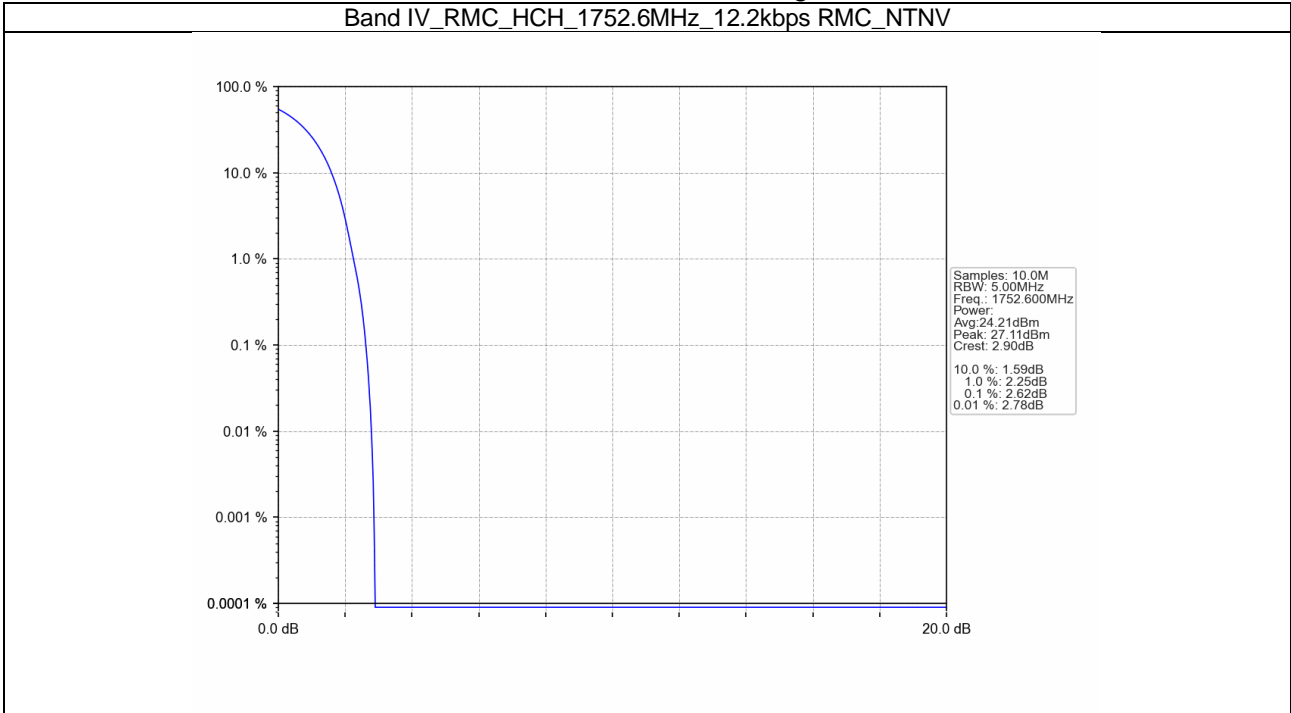
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Band IV\_RMC\_HCH\_1752.6MHz\_12.2kbps RMC\_NTNV



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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	4.182	/	Pass
			1732.6	4.172	/	Pass
			1752.6	4.169	/	Pass

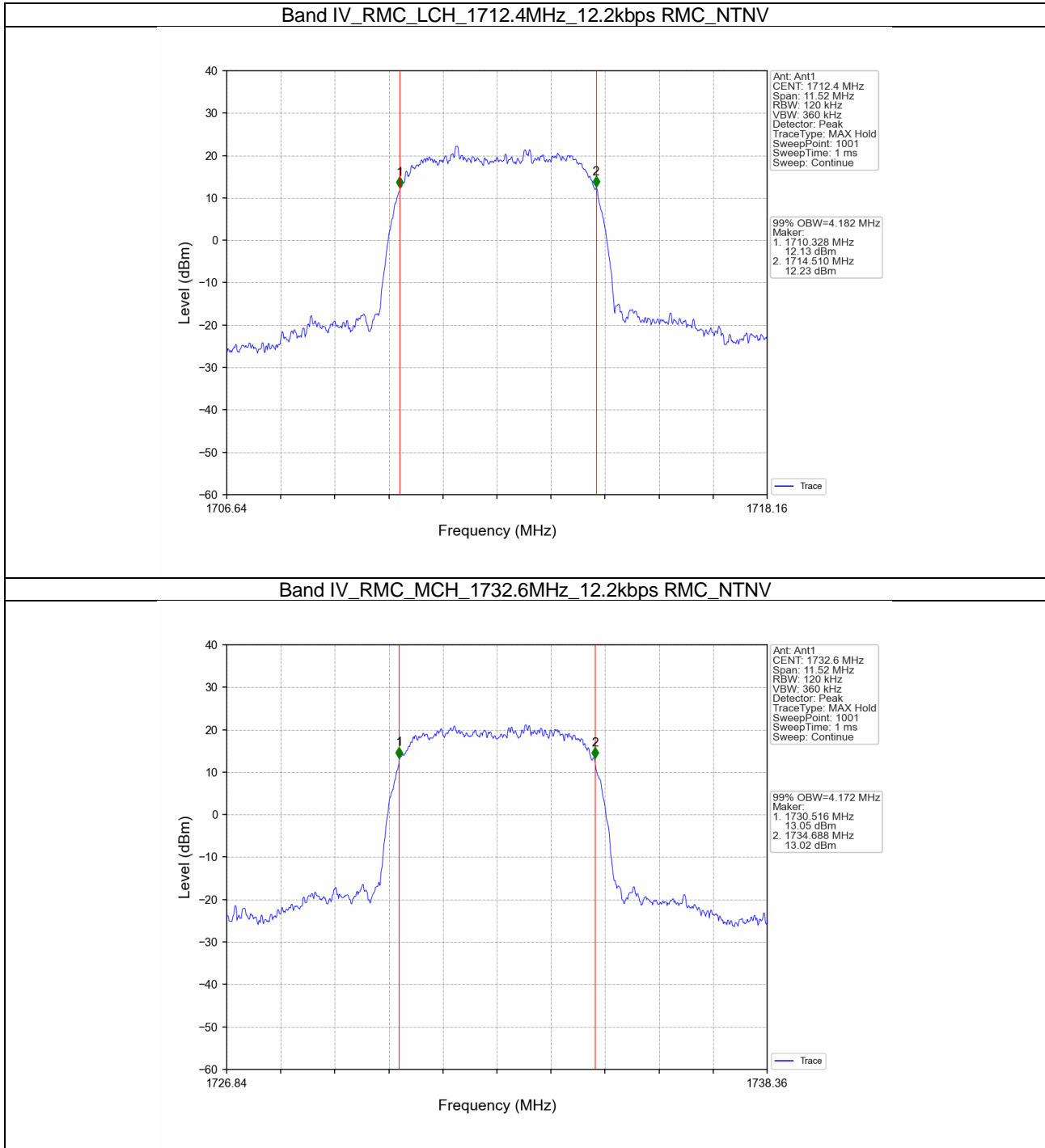


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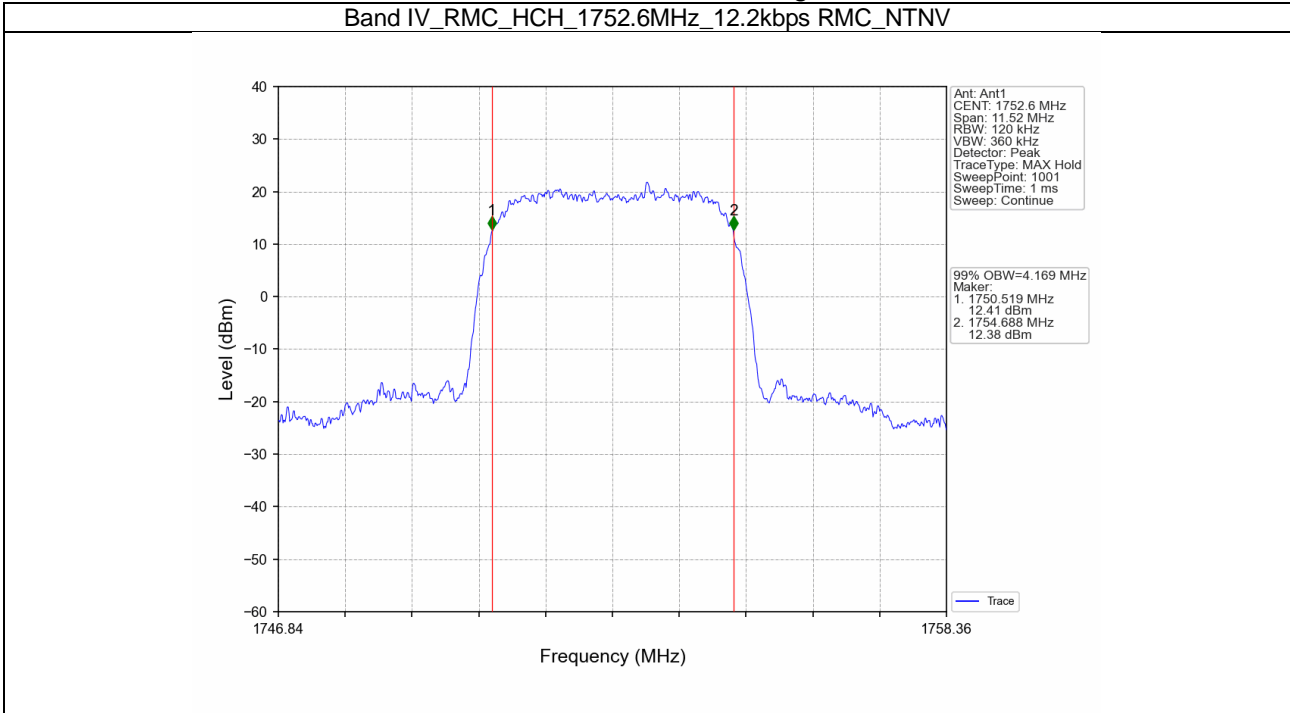
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Band IV\_XDB

Test Result

Band IV						
ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1712.4	4.756	/	Pass
			1732.6	4.779	/	Pass
			1752.6	4.777	/	Pass



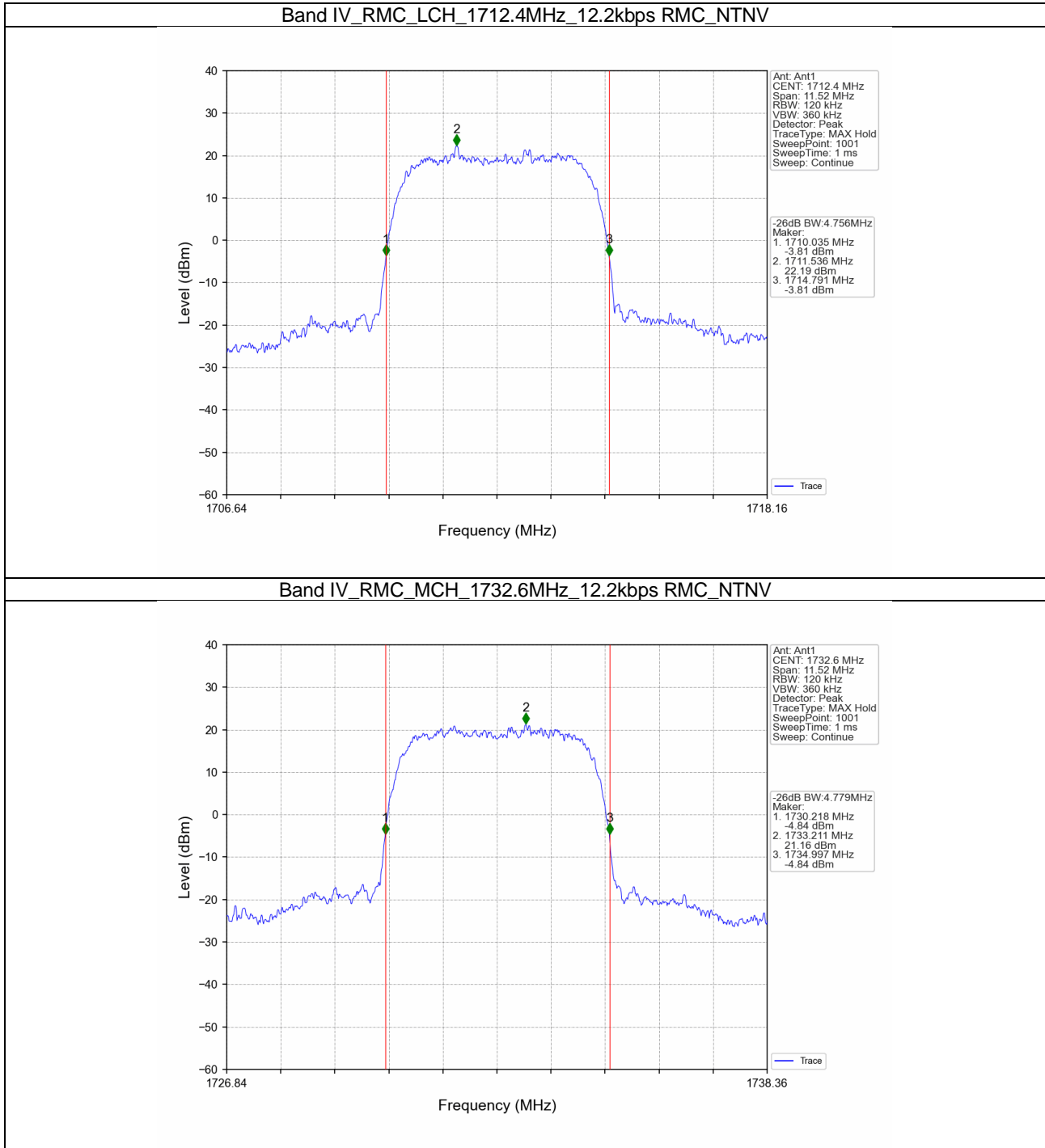
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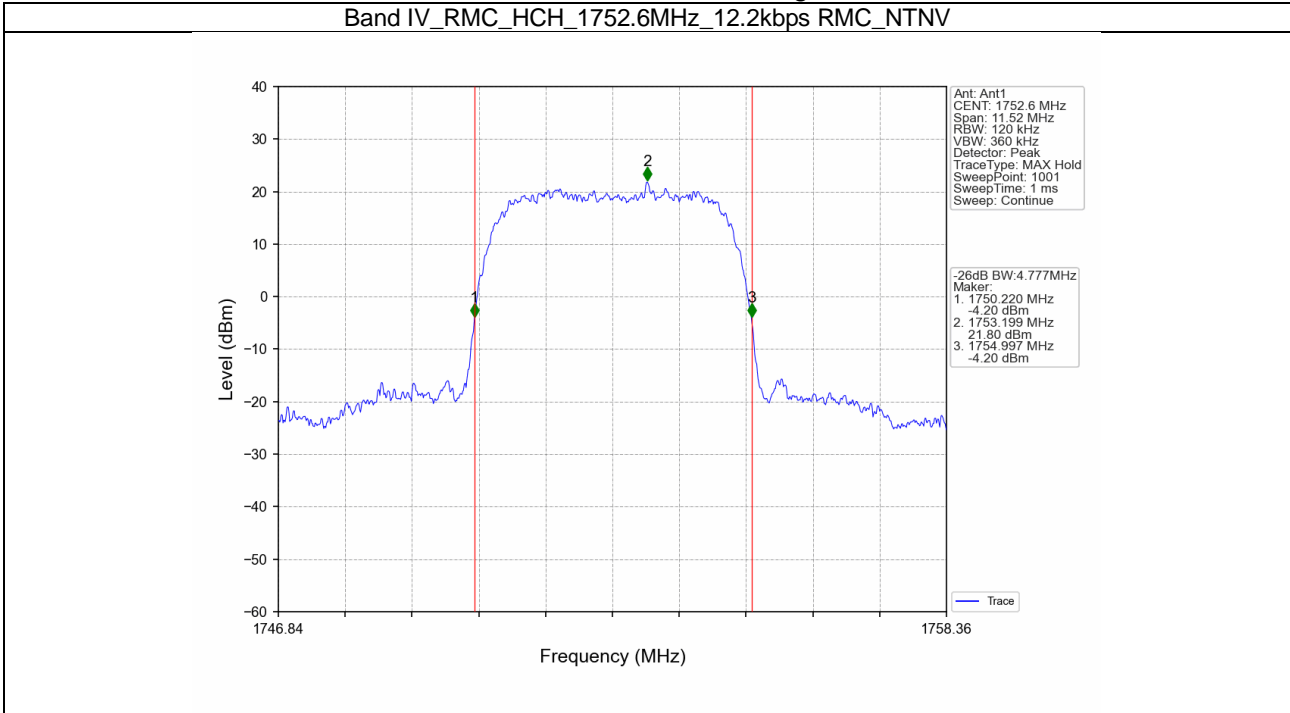


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## Spurious Emission & Band Edge

Band IV

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



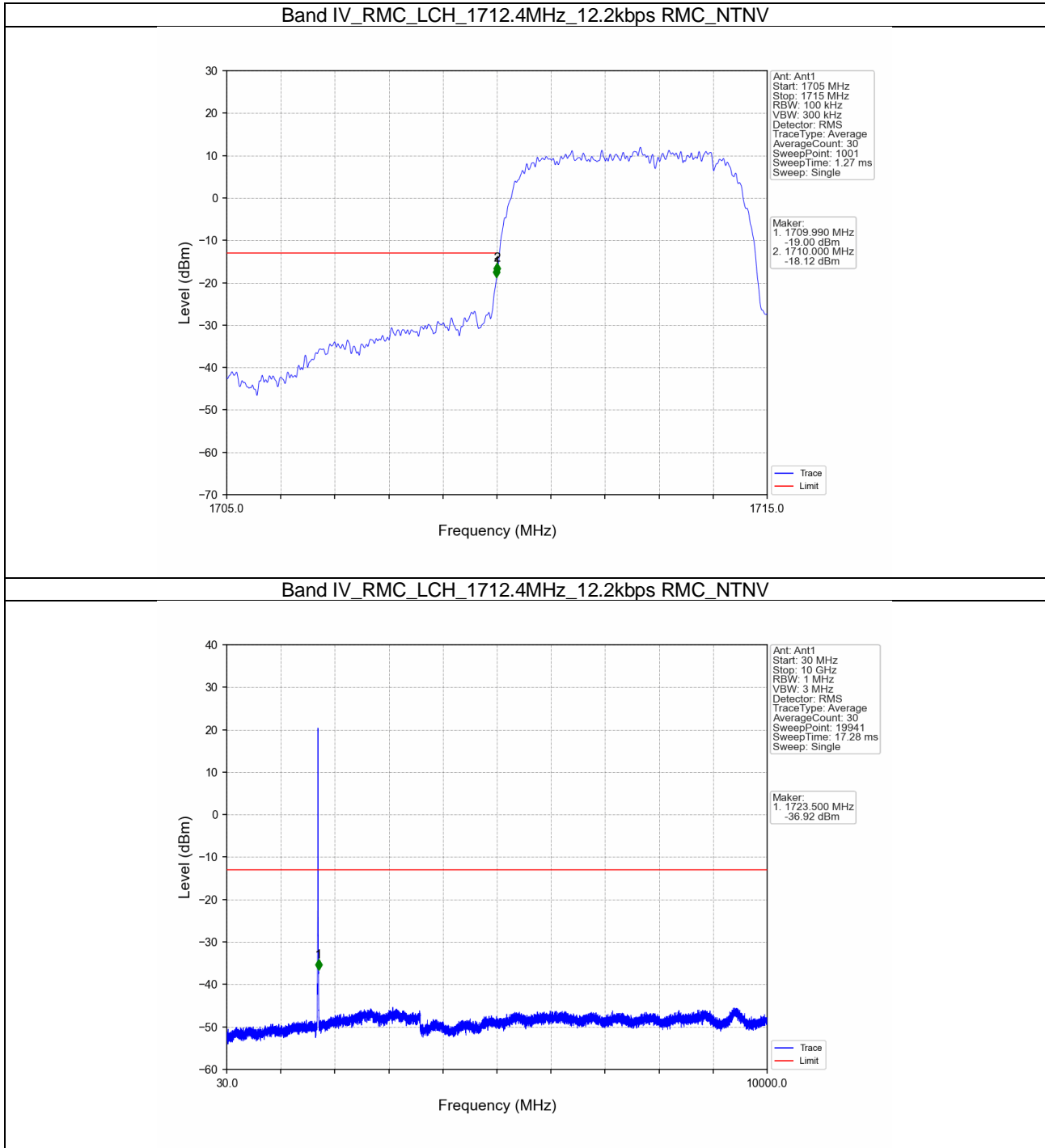
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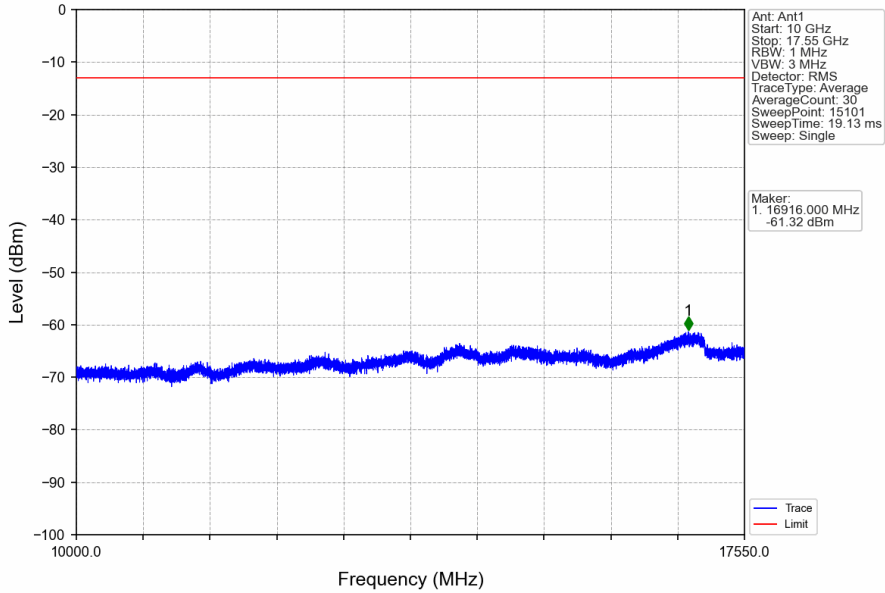
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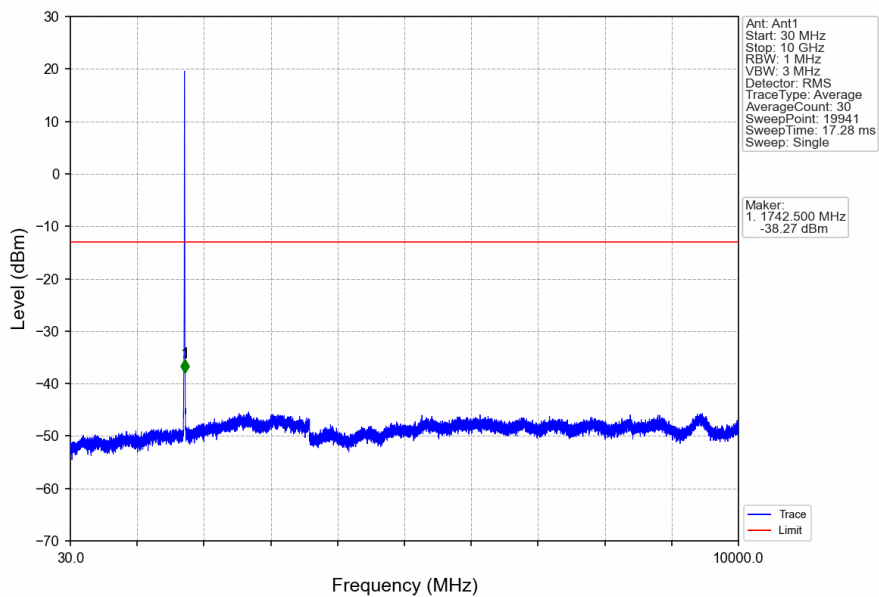
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Band IV\_RMC\_LCH\_1712.4MHz\_12.2kbps RMC\_NTNV



Band IV\_RMC\_MCH\_1732.6MHz\_12.2kbps RMC\_NTNV

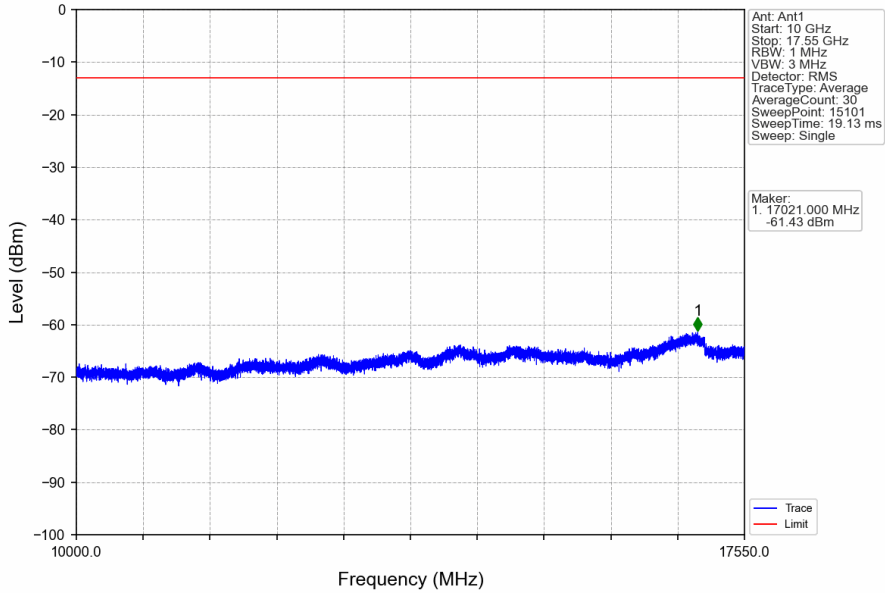


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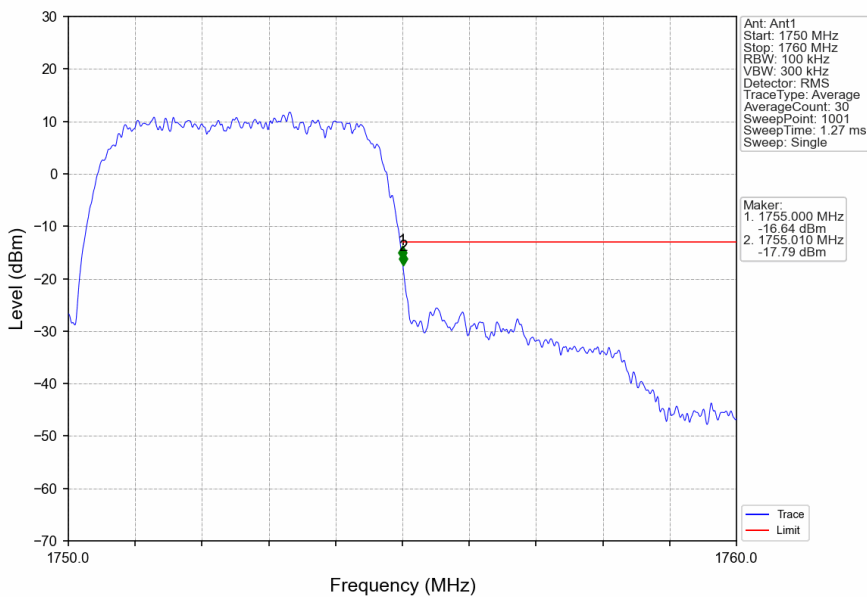
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Band IV\_RMC\_MCH\_1732.6MHz\_12.2kbps RMC\_NTNV



Band IV\_RMC\_HCH\_1752.6MHz\_12.2kbps RMC\_NTNV



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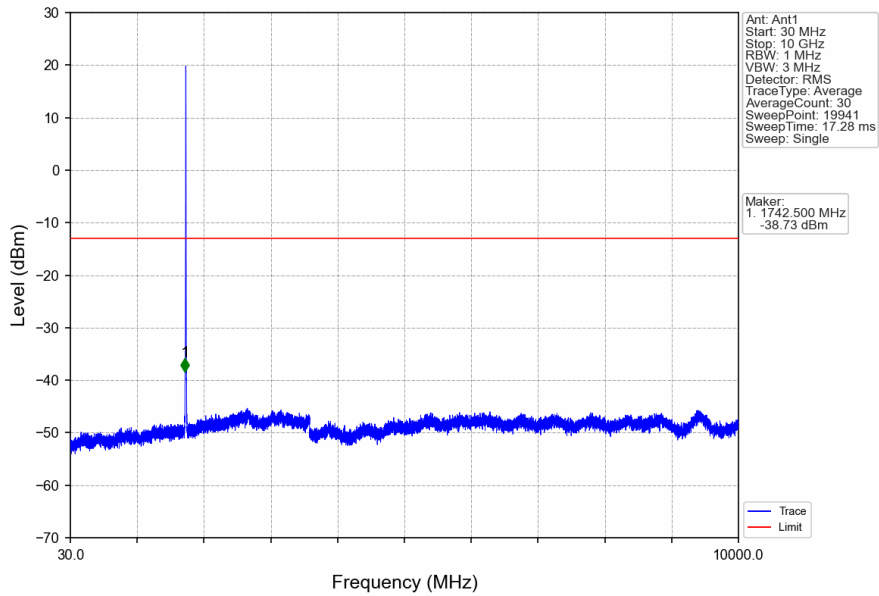
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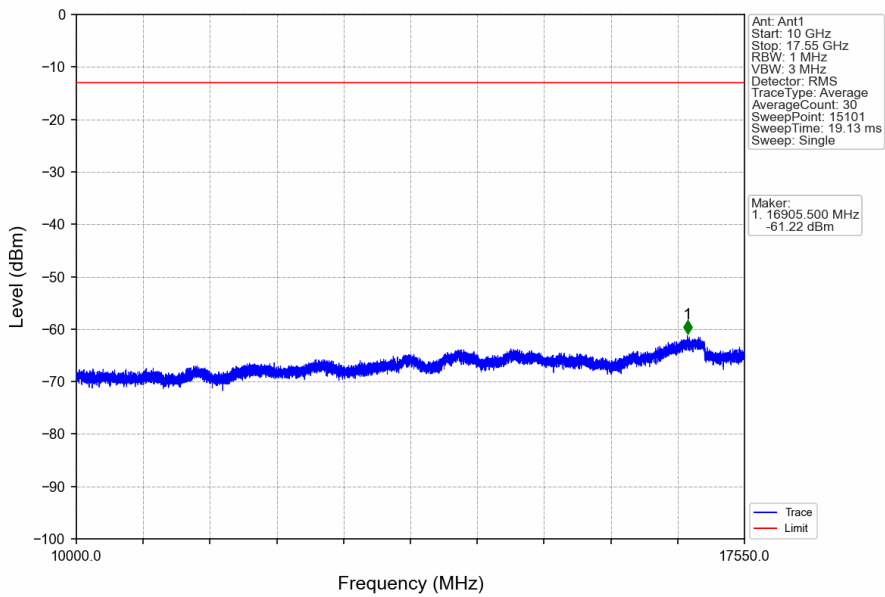
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Band IV\_RMC\_HCH\_1752.6MHz\_12.2kbps RMC\_NTNV



Band IV\_RMC\_HCH\_1752.6MHz\_12.2kbps RMC\_NTNV



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Wireless Laboratory

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## Field Strength of Spurious Radiation

Test Band = WCDMA Band IV\_ TM1

Test Channel = Low Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3424.8	35.57	-43.25	29.59	-73.36	-13.00	60.36	Horizontal
2	5137.2	34.03	-41.10	33.17	-69.16	-13.00	56.16	Horizontal
3	6849.6	31.85	-38.40	35.94	-65.87	-13.00	52.87	Horizontal
4	8562	30.40	-35.32	37.38	-62.80	-13.00	49.80	Horizontal
5	10274.4	29.02	-32.18	38.04	-60.38	-13.00	47.38	Horizontal
6	11986.8	27.14	-29.64	38.40	-59.36	-13.00	46.36	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3424.8	34.46	-43.25	29.59	-74.47	-13.00	61.47	Vertical
2	5137.2	32.71	-41.10	33.17	-70.48	-13.00	57.48	Vertical
3	6849.6	32.41	-38.40	35.94	-65.31	-13.00	52.31	Vertical
4	8562	30.88	-35.32	37.38	-62.32	-13.00	49.32	Vertical
5	10274.4	29.46	-32.18	38.04	-59.94	-13.00	46.94	Vertical
6	11986.8	28.22	-29.64	38.40	-58.28	-13.00	45.28	Vertical



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Test Band = WCDMA Band IV\_ TM1

Test Channel = Mid Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3465.2	35.22	-43.16	29.59	-73.61	-13.00	60.61	Horizontal
2	5197.8	33.87	-40.82	33.16	-69.05	-13.00	56.05	Horizontal
3	6930.4	33.05	-38.35	35.97	-64.58	-13.00	51.58	Horizontal
4	8663	29.31	-35.33	37.43	-63.85	-13.00	50.85	Horizontal
5	10395.6	27.81	-31.48	38.10	-60.83	-13.00	47.83	Horizontal
6	12128.2	28.10	-29.39	38.55	-57.99	-13.00	44.99	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3465.2	35.88	-43.16	29.59	-72.95	-13.00	59.95	Vertical
2	5197.8	33.41	-40.82	33.16	-69.51	-13.00	56.51	Vertical
3	6930.4	32.82	-38.35	35.97	-64.81	-13.00	51.81	Vertical
4	8663	30.41	-35.33	37.43	-62.75	-13.00	49.75	Vertical
5	10395.6	28.46	-31.48	38.10	-60.18	-13.00	47.18	Vertical
6	12128.2	27.98	-29.39	38.55	-58.11	-13.00	45.11	Vertical



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Test Band = WCDMA Band IV\_ TM1

Test Channel = High Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3505.2	35.54	-43.06	29.62	-73.16	-13.00	60.16	Horizontal
2	5257.8	33.07	-40.87	33.15	-69.91	-13.00	56.91	Horizontal
3	7010.4	32.47	-38.35	36.01	-65.13	-13.00	52.13	Horizontal
4	8763	30.17	-35.10	37.48	-62.70	-13.00	49.70	Horizontal
5	10515.6	28.09	-31.20	38.16	-60.21	-13.00	47.21	Horizontal
6	12268.2	27.62	-29.90	38.72	-58.82	-13.00	45.82	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3505.2	34.53	-43.06	29.62	-74.17	-13.00	61.17	Vertical
2	5257.8	33.41	-40.87	33.15	-69.57	-13.00	56.57	Vertical
3	7010.4	32.61	-38.35	36.01	-64.99	-13.00	51.99	Vertical
4	8763	29.80	-35.10	37.48	-63.07	-13.00	50.07	Vertical
5	10515.6	27.87	-31.20	38.16	-60.43	-13.00	47.43	Vertical
6	12268.2	27.77	-29.90	38.72	-58.67	-13.00	45.67	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	0.730	0.0004	/	Pass
			3.89	0.443	0.0003	/	Pass
			4.48	0.908	0.0005	/	Pass
		-30	3.89	1.016	0.0006	/	Pass
		-20	3.89	0.293	0.0002	/	Pass
		-10	3.89	1.817	0.0011	/	Pass
		0	3.89	1.802	0.0011	/	Pass
		10	3.89	2.103	0.0012	/	Pass
		30	3.89	1.853	0.0011	/	Pass
		40	3.89	3.748	0.0022	/	Pass
	50	3.89	3.541	0.0021	/	Pass	
	1732.6	20	3.4	-2.325	-0.0013	/	Pass
			3.89	-4.170	-0.0024	/	Pass
			4.48	-2.632	-0.0015	/	Pass
		-30	3.89	-2.789	-0.0016	/	Pass
		-20	3.89	-2.589	-0.0015	/	Pass
		-10	3.89	-2.317	-0.0013	/	Pass
		0	3.89	-2.332	-0.0013	/	Pass
		10	3.89	-3.026	-0.0017	/	Pass
		30	3.89	-2.596	-0.0015	/	Pass
		40	3.89	-2.975	-0.0017	/	Pass
	50	3.89	-2.775	-0.0016	/	Pass	
	1752.6	20	3.4	-3.376	-0.0019	/	Pass
			3.89	-1.702	-0.0010	/	Pass
			4.48	-3.333	-0.0019	/	Pass
		-30	3.89	-2.825	-0.0016	/	Pass
		-20	3.89	-2.074	-0.0012	/	Pass
		-10	3.89	-2.697	-0.0015	/	Pass
		0	3.89	-2.203	-0.0013	/	Pass
		10	3.89	-1.960	-0.0011	/	Pass
30		3.89	-2.410	-0.0014	/	Pass	
40		3.89	-1.996	-0.0011	/	Pass	
50	3.89	-2.024	-0.0012	/	Pass		

---End of Attachment---



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