



Report No.: SEWM2311000478RG01  
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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	22.64	1.10	23.74	<=30	Pass
			1732.6	22.61	1.10	23.71	<=30	Pass
			1752.6	22.80	1.10	23.9	<=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	2.85	<=13	Pass
			1732.6	2.68	<=13	Pass
			1752.6	2.85	<=13	Pass

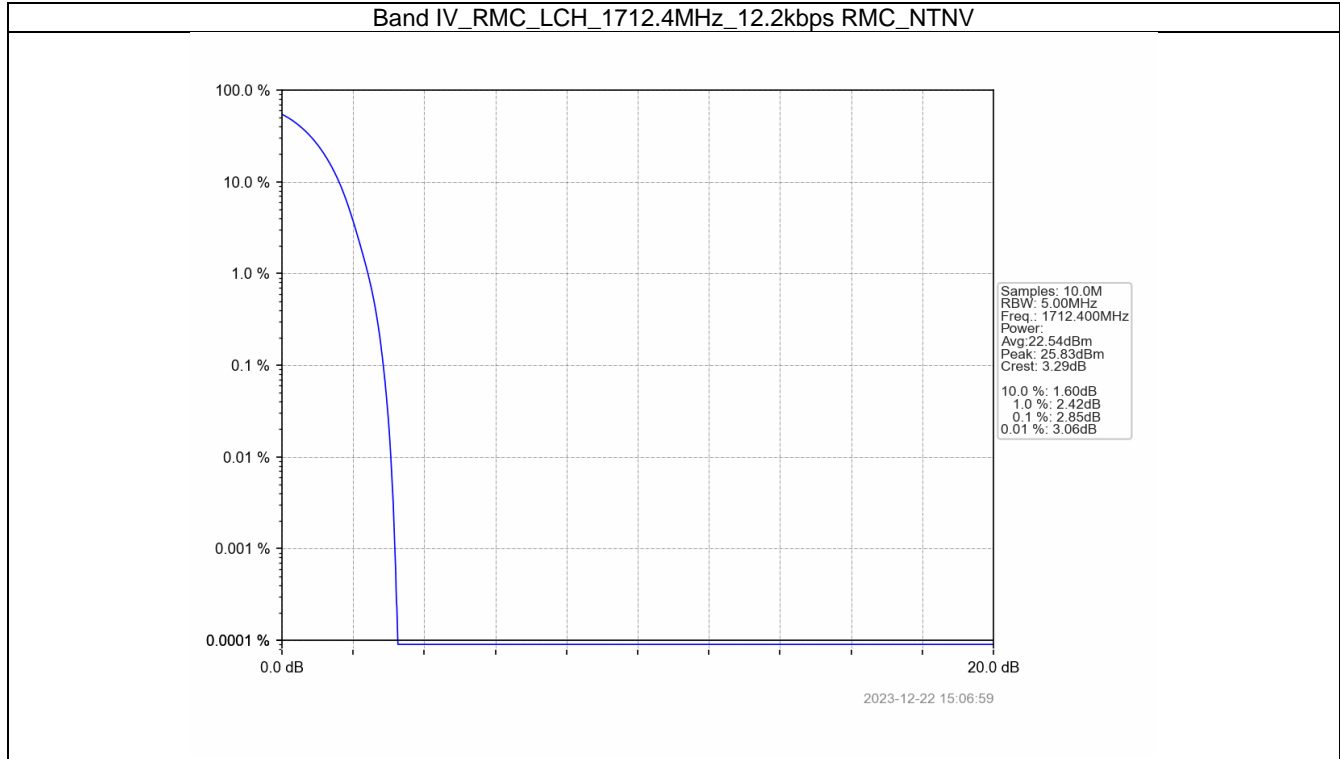


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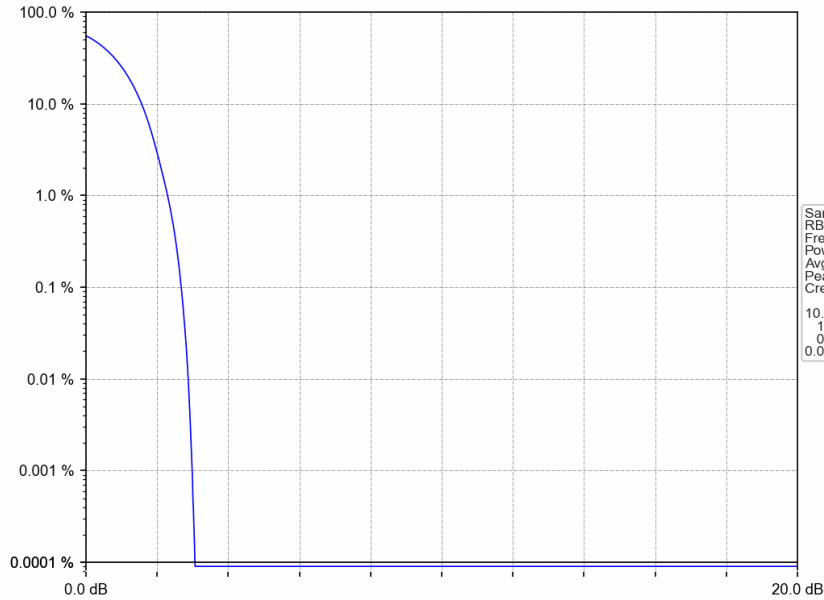


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Band IV\_RMC\_MCH\_1732.6MHz\_12.2kbps RMC\_NTNV



Samples: 10.0M  
 RBW: 5.00MHz  
 Freq.: 1732.600MHz  
 Power:  
 Avg: 22.34dBm  
 Peak: 25.74dBm  
 Crest: 3.40dB

10.0 %: 1.56dB  
 1.0 %: 2.29dB  
 0.1 %: 2.68dB  
 0.01 %: 2.87dB

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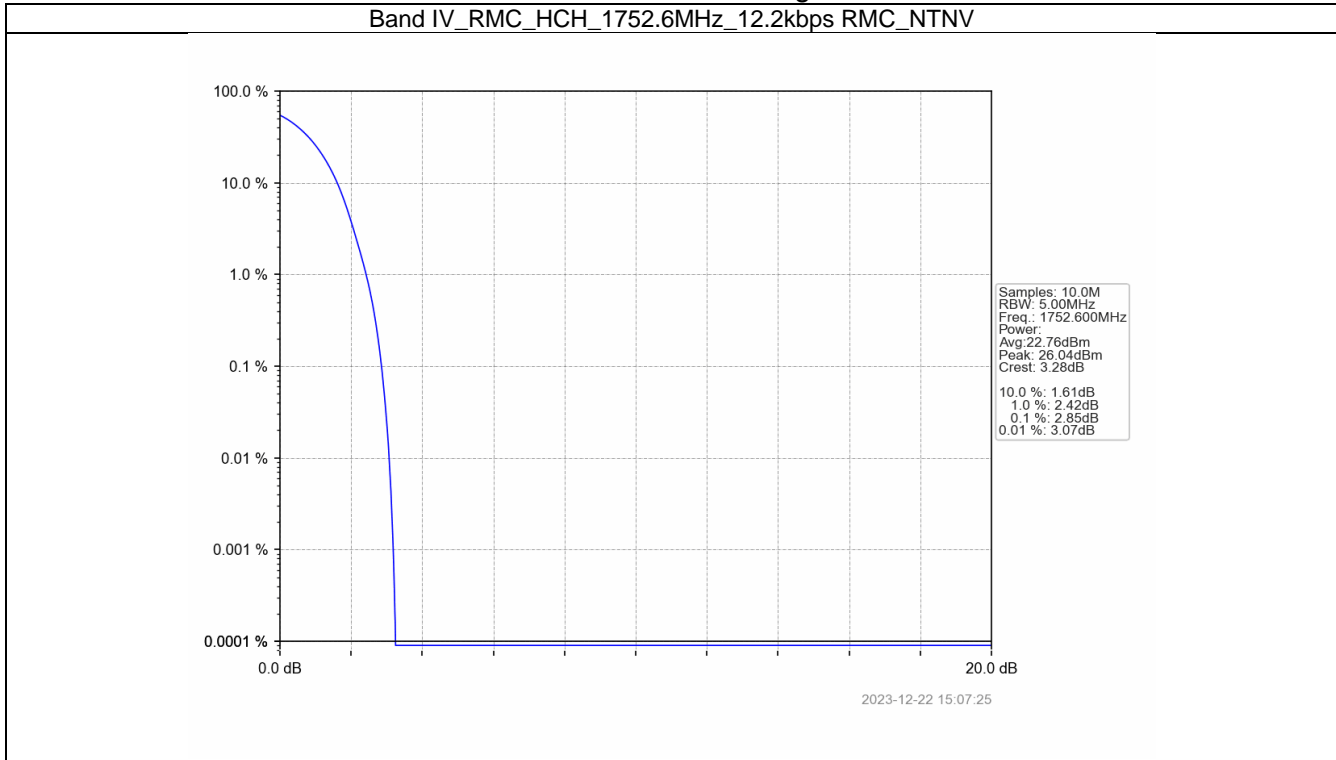


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Band IV\_RMC\_HCH\_1752.6MHz\_12.2kbps RMC\_NTNV



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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	4.136	/	Pass
			1732.6	4.153	/	Pass
			1752.6	4.150	/	Pass



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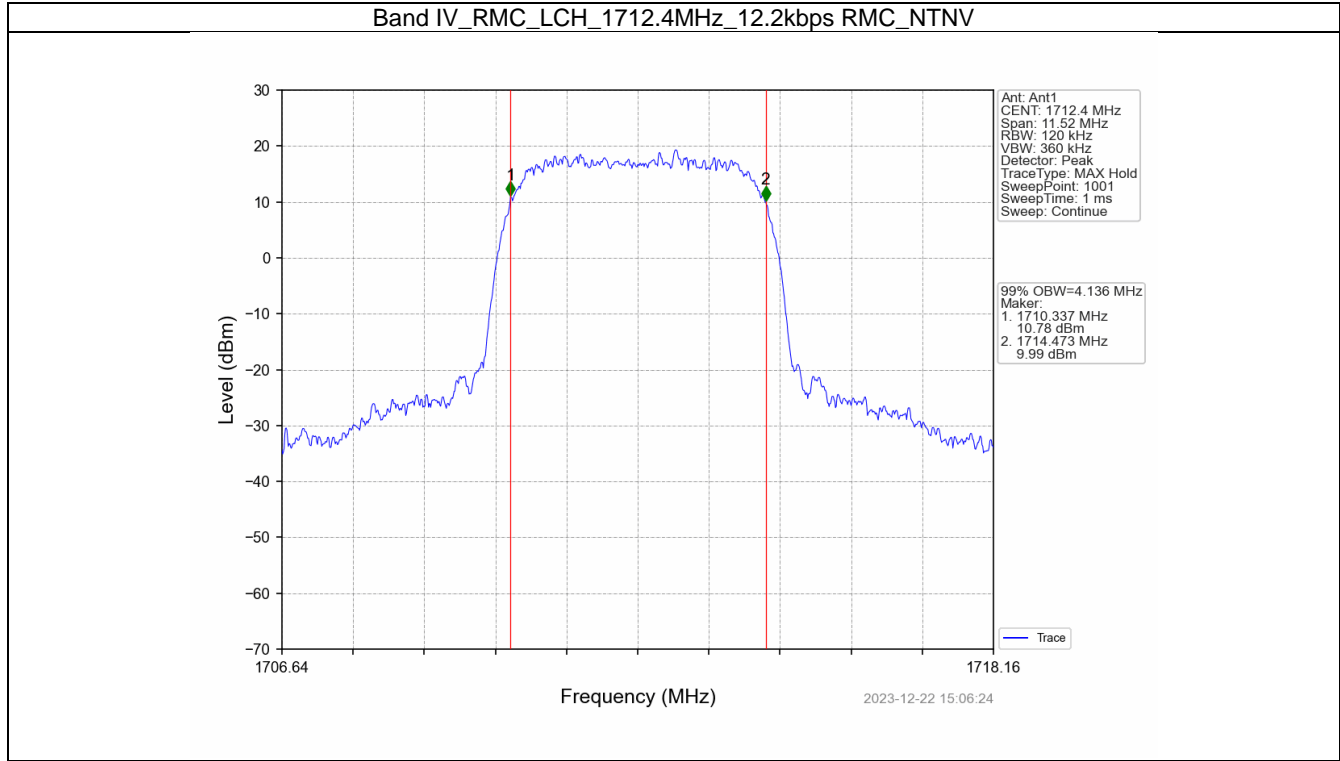
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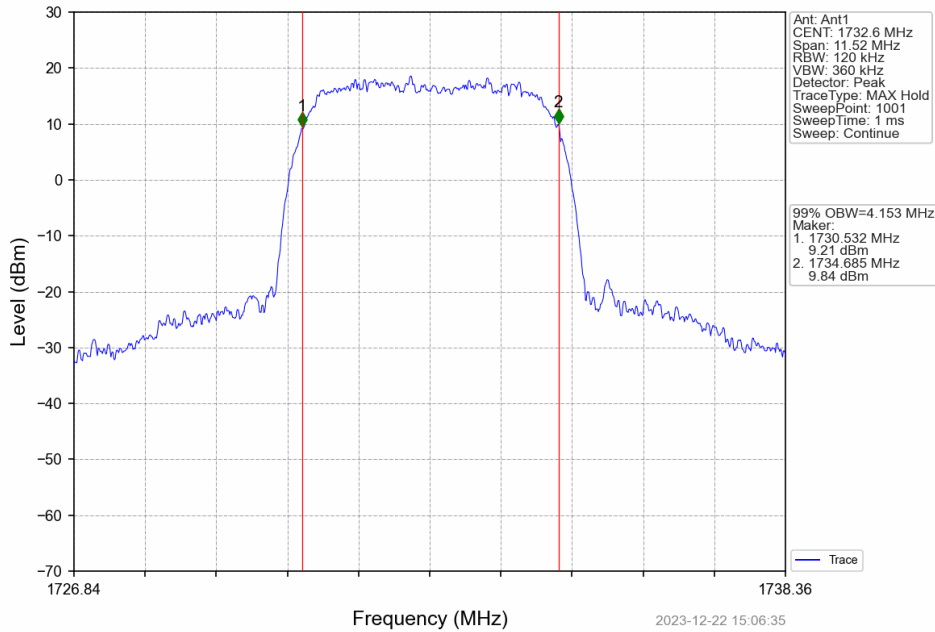
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Band IV\_RMC\_MCH\_1732.6MHz\_12.2kbps RMC\_NTNV



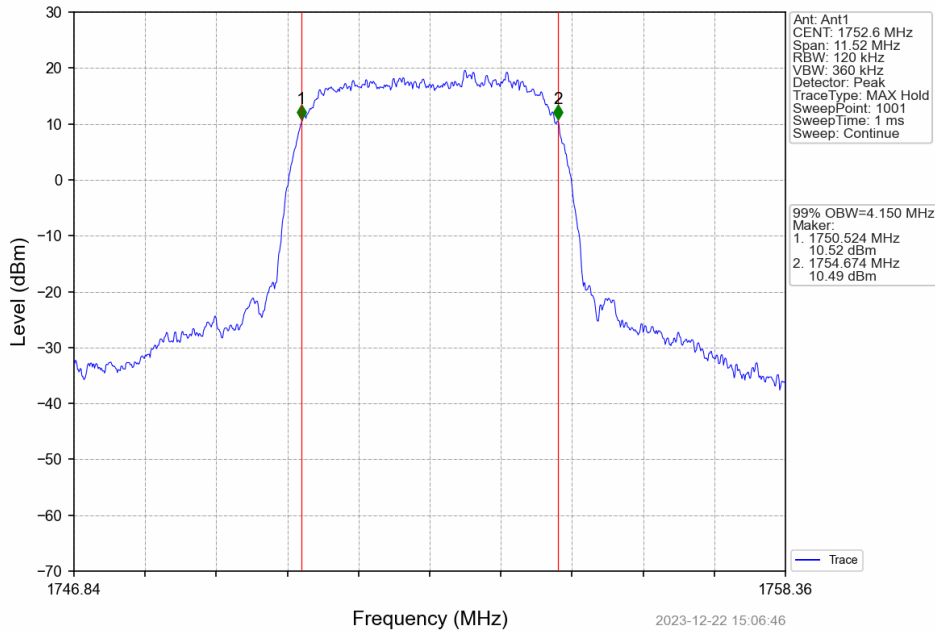
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Band IV\_RMC\_HCH\_1752.6MHz\_12.2kbps RMC\_NTNV



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Band IV\_XDB

Test Result

Band IV						
ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1712.4	4.725	/	Pass
			1732.6	4.763	/	Pass
			1752.6	4.736	/	Pass



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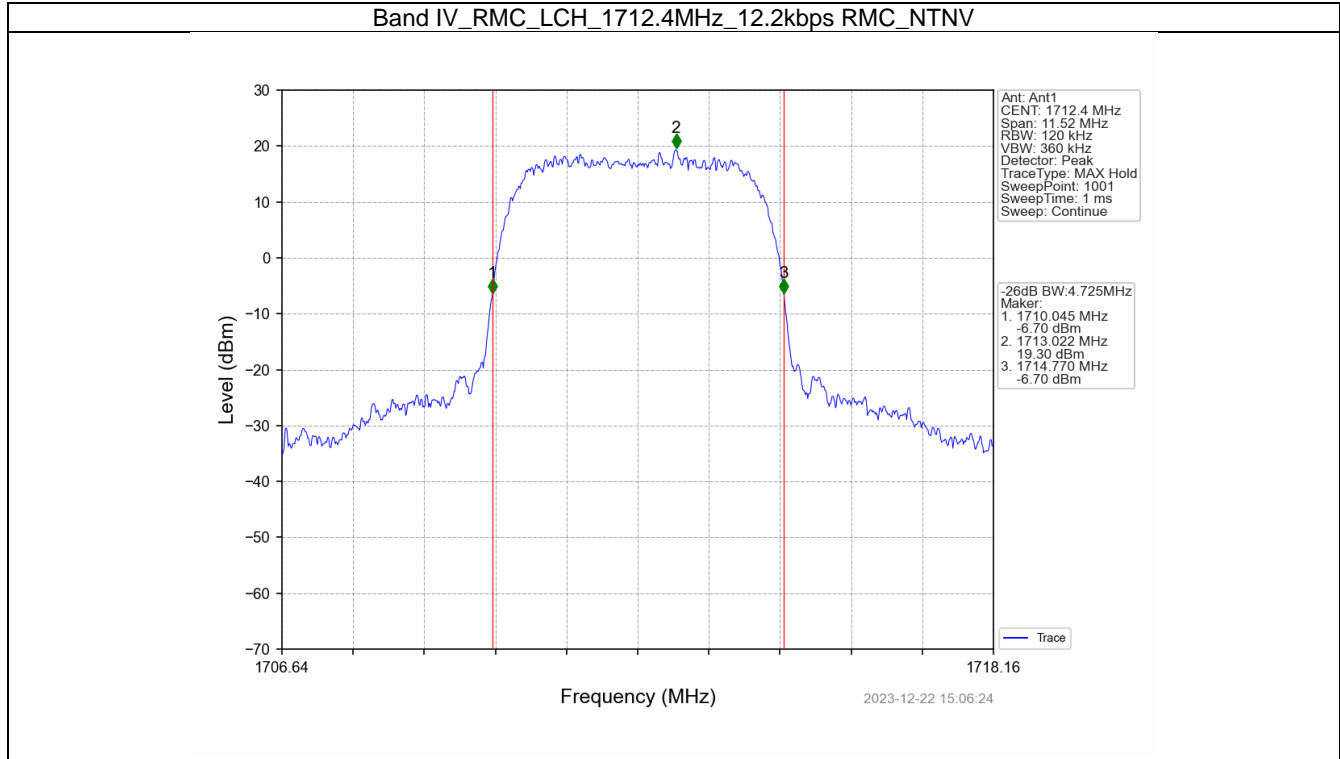
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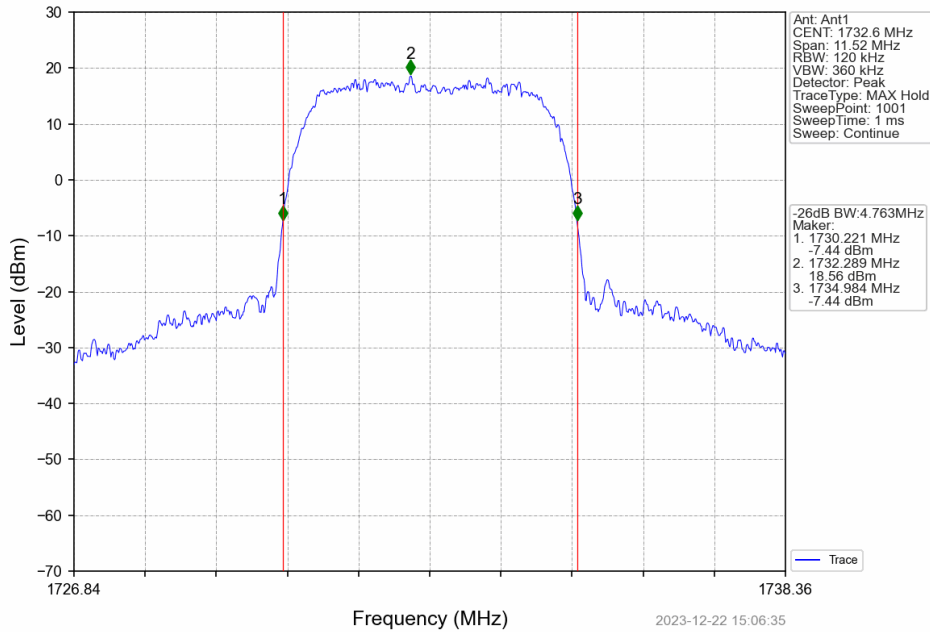
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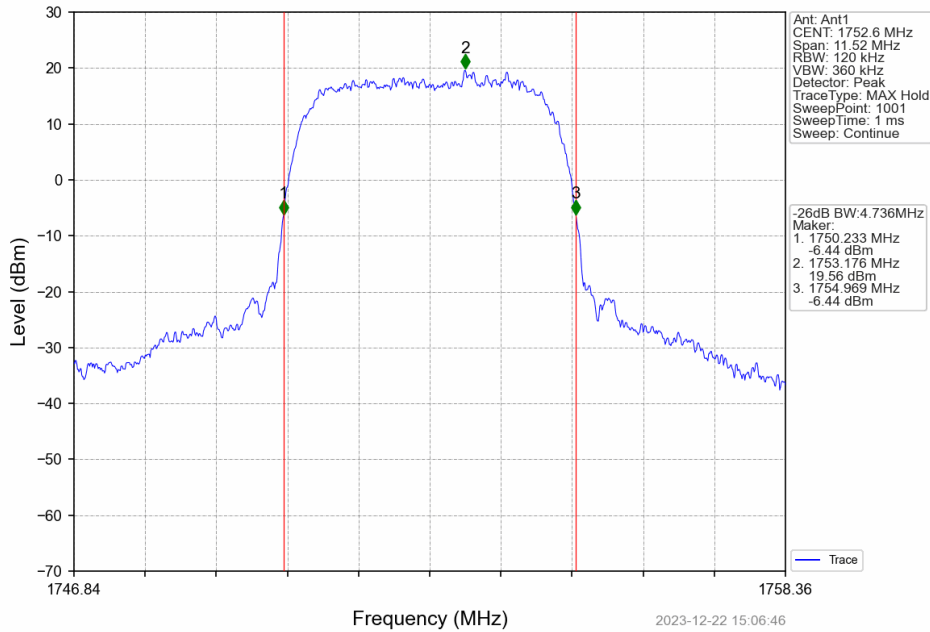


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Band IV\_RMC\_HCH\_1752.6MHz\_12.2kbps RMC\_NTNV



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### Spurious Emission & Band Edge

#### Band IV

#### Test Result

Band IV						
ENV	Mode		Frequency (MHz)	Spurious Emission		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

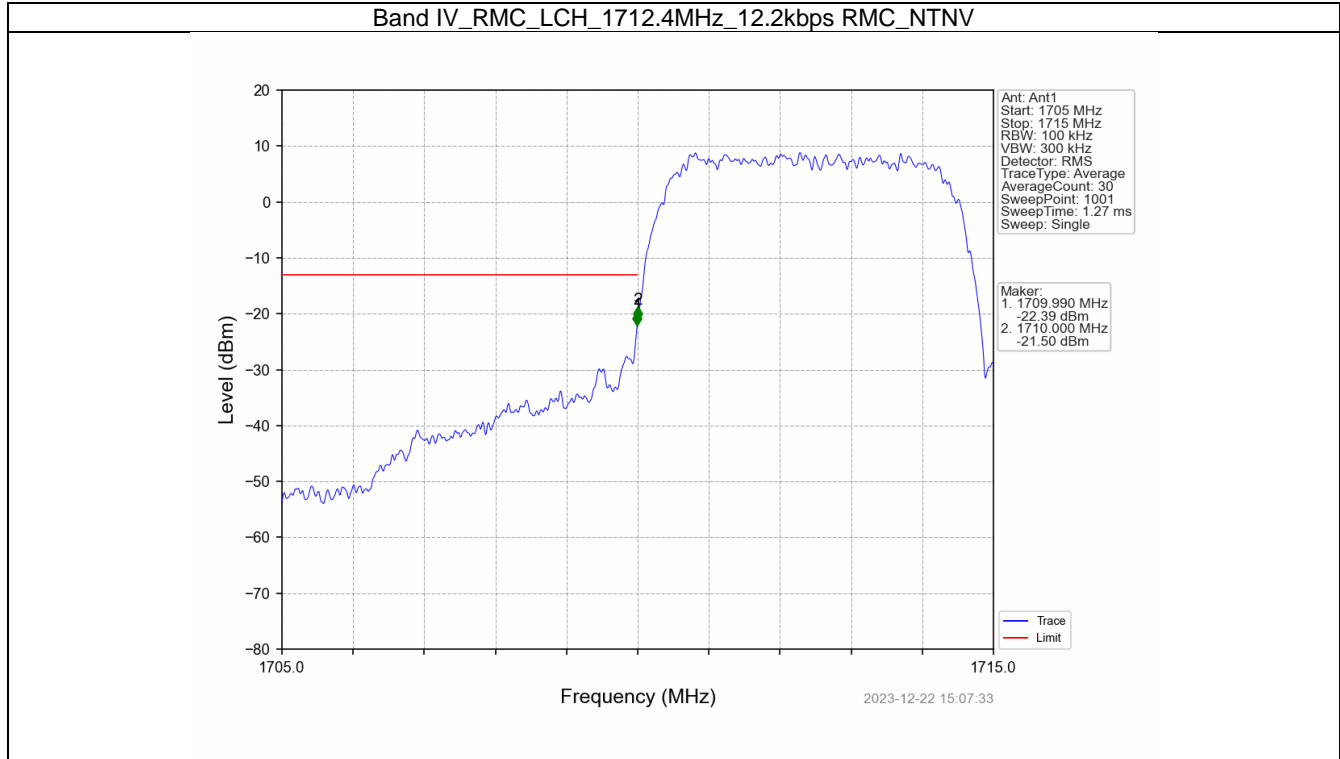


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Test Graph



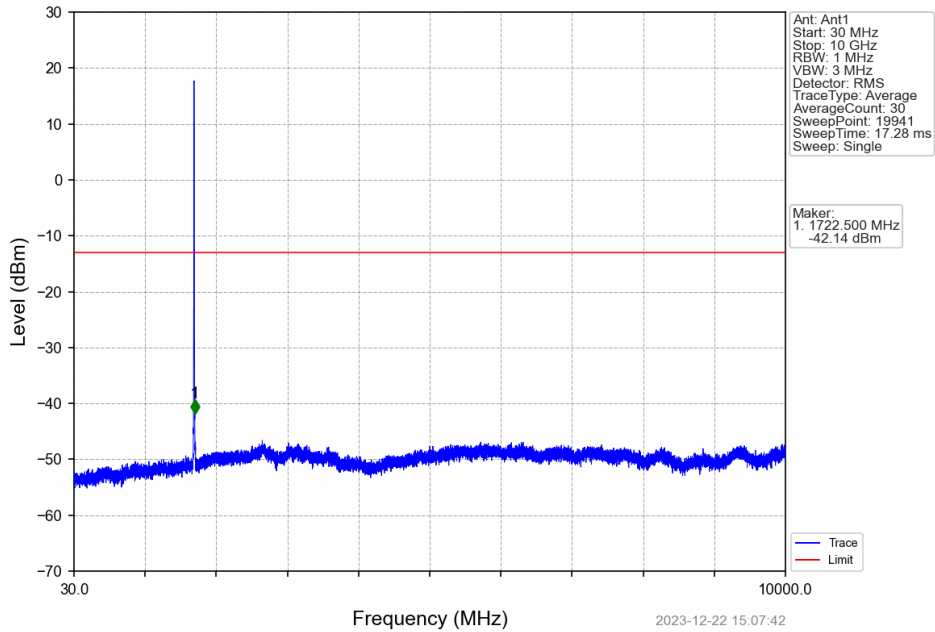
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Band IV\_RMC\_LCH\_1712.4MHz\_12.2kbps RMC\_NTNV



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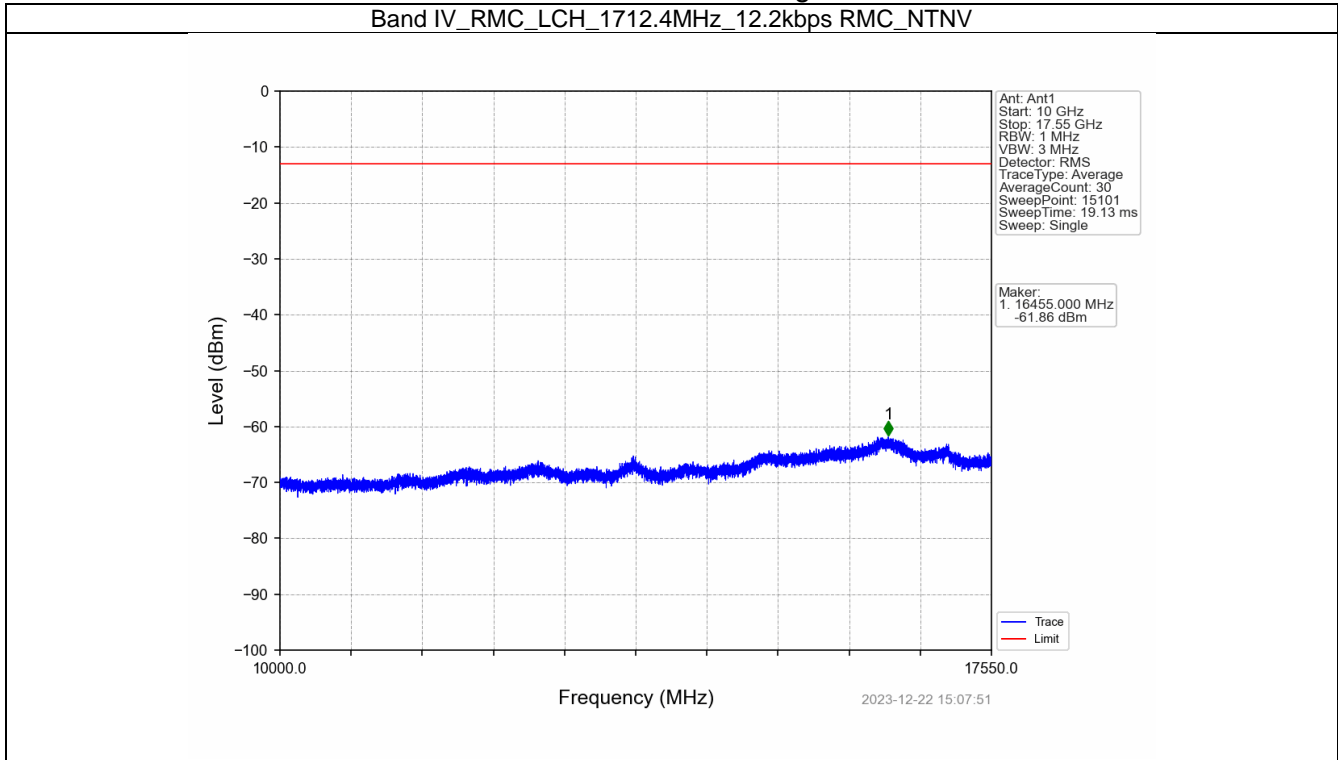


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Band IV\_RMC\_LCH\_1712.4MHz\_12.2kbps RMC\_NTNV



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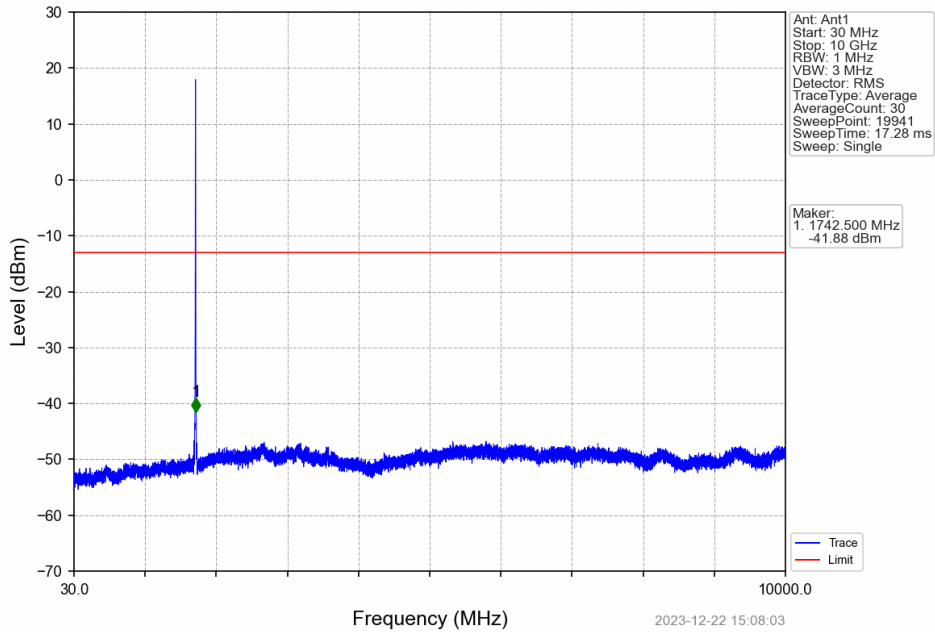


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Band IV\_RMC\_MCH\_1732.6MHz\_12.2kbps RMC\_NTNV



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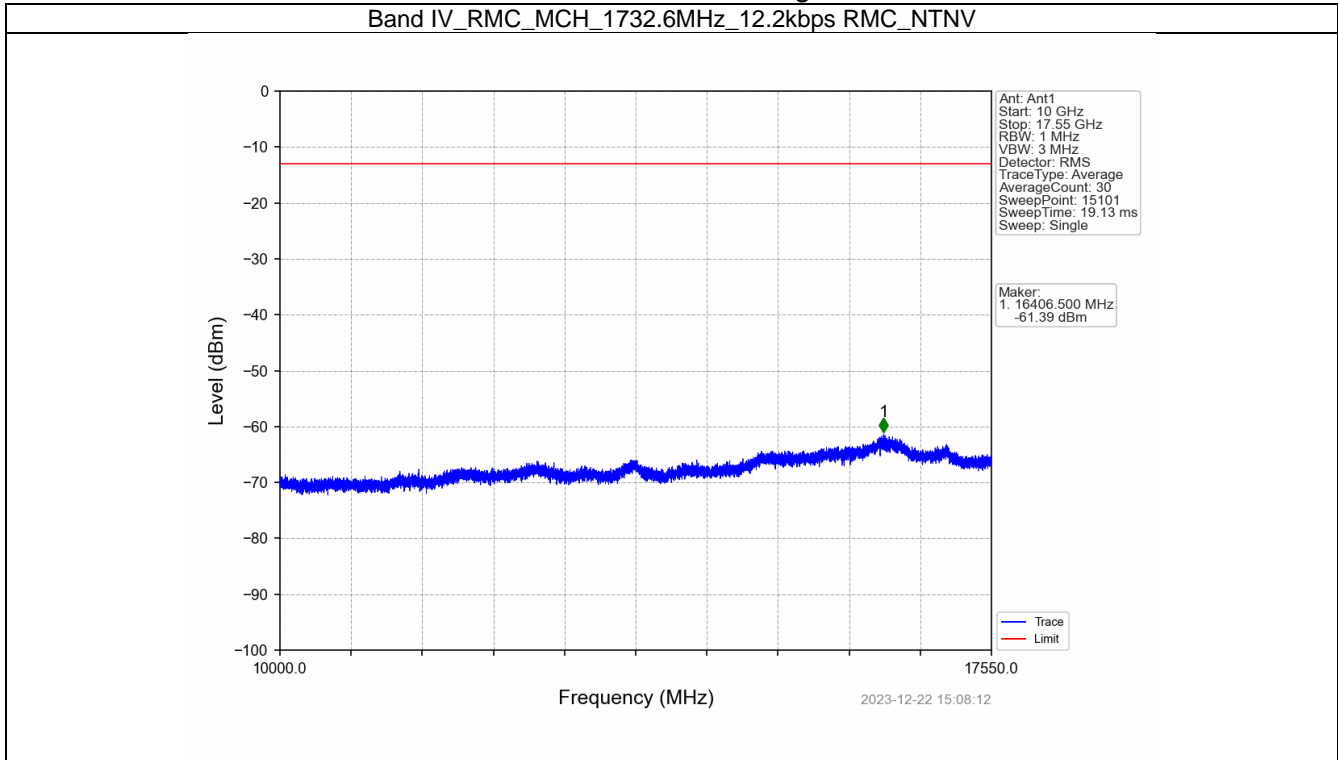


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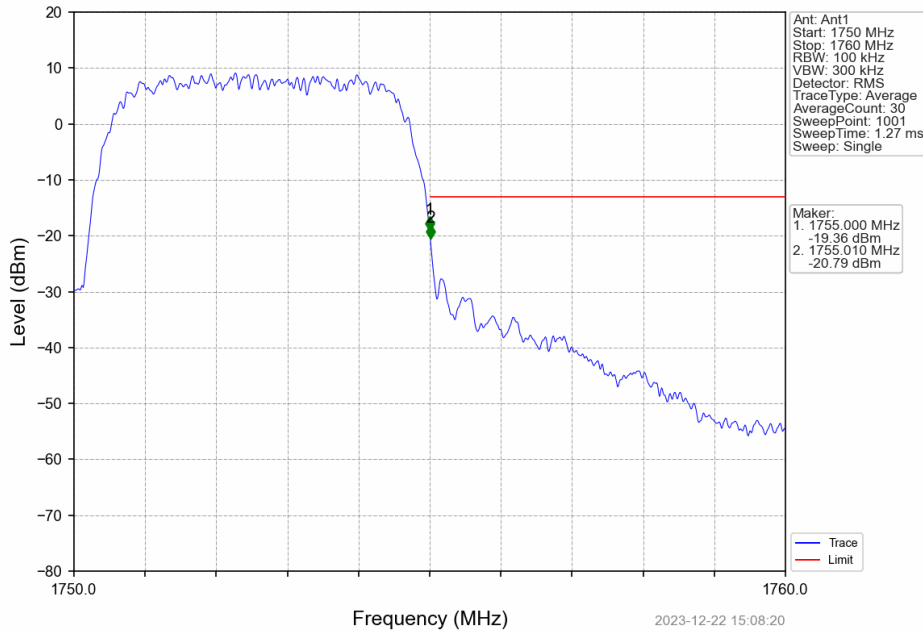
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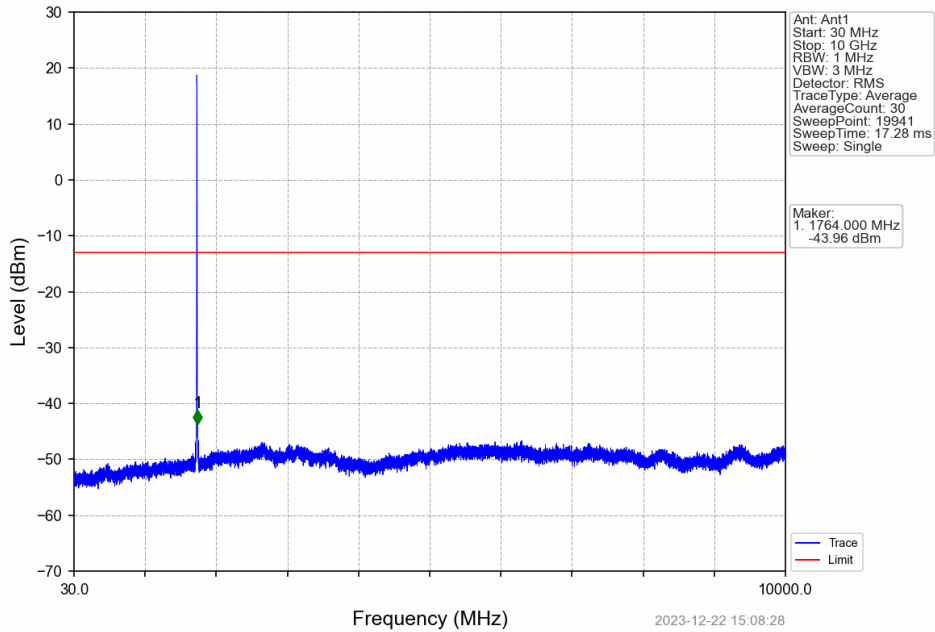


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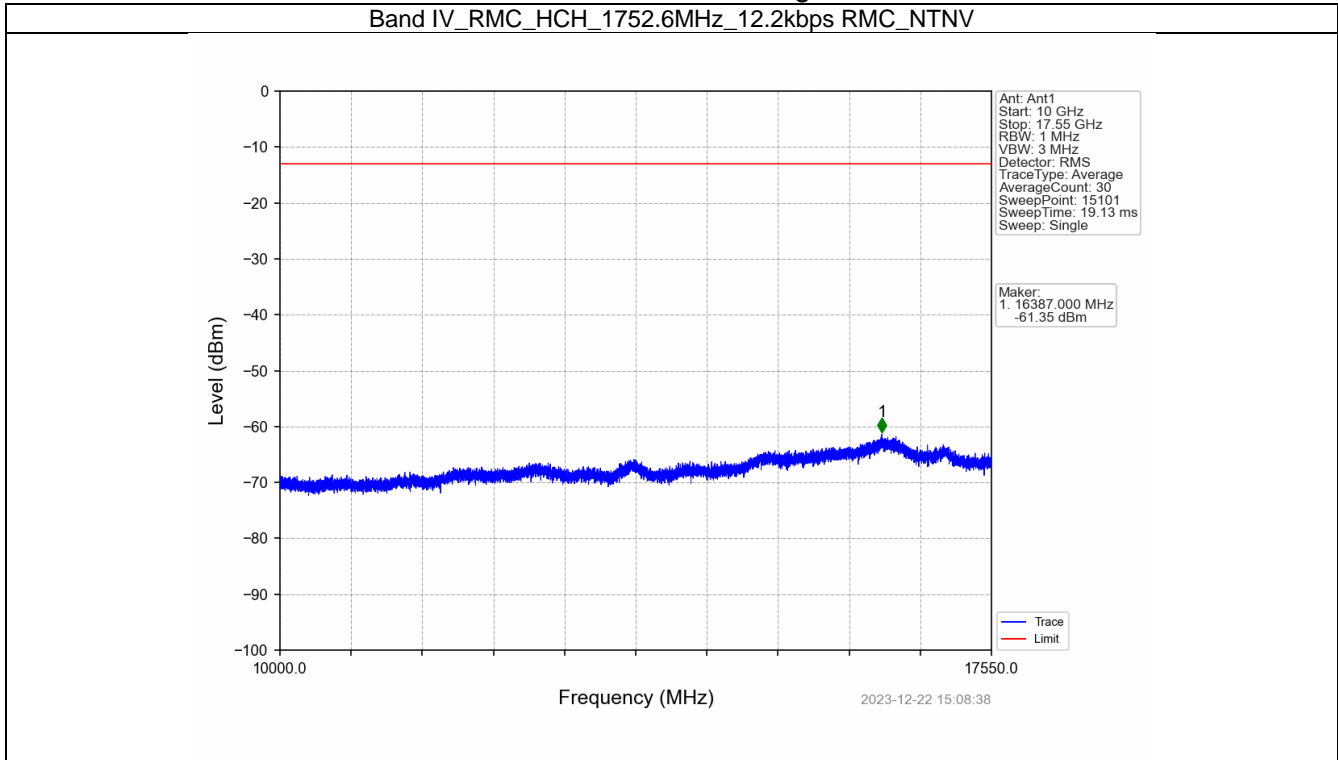


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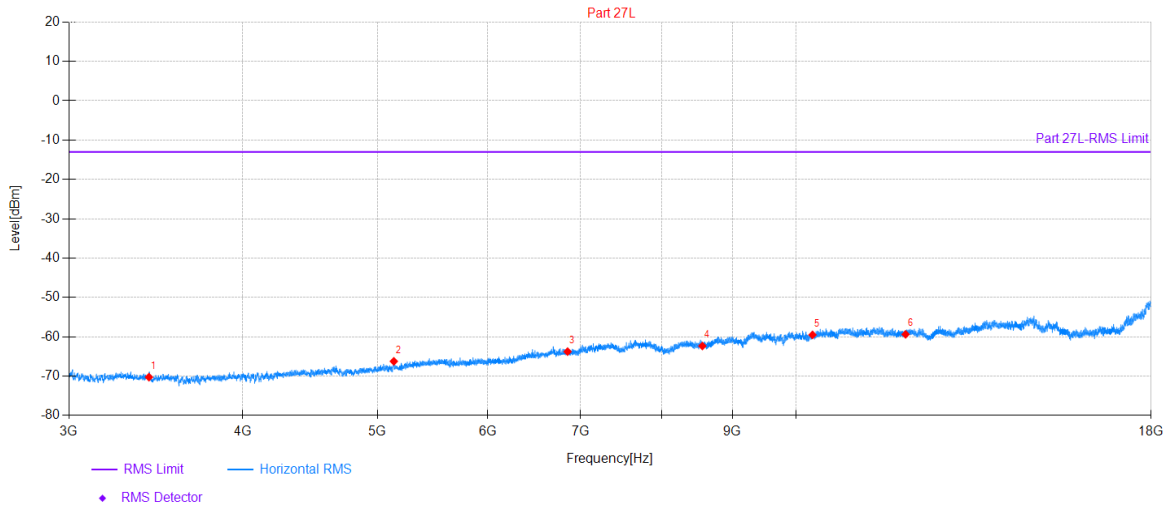
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## Field Strength of Spurious Radiation

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	44.71	-48.38	28.67	-70.26	-13.00	57.26	Horizontal
2	5137.2	45.04	-47.85	31.83	-66.24	-13.00	53.24	Horizontal
3	6849.6	43.03	-46.81	35.27	-63.77	-13.00	50.77	Horizontal
4	8562	40.02	-44.09	36.99	-62.34	-13.00	49.34	Horizontal
5	10274.4	38.40	-41.40	38.75	-59.51	-13.00	46.51	Horizontal
6	11986.8	36.17	-39.49	39.20	-59.38	-13.00	46.38	Horizontal



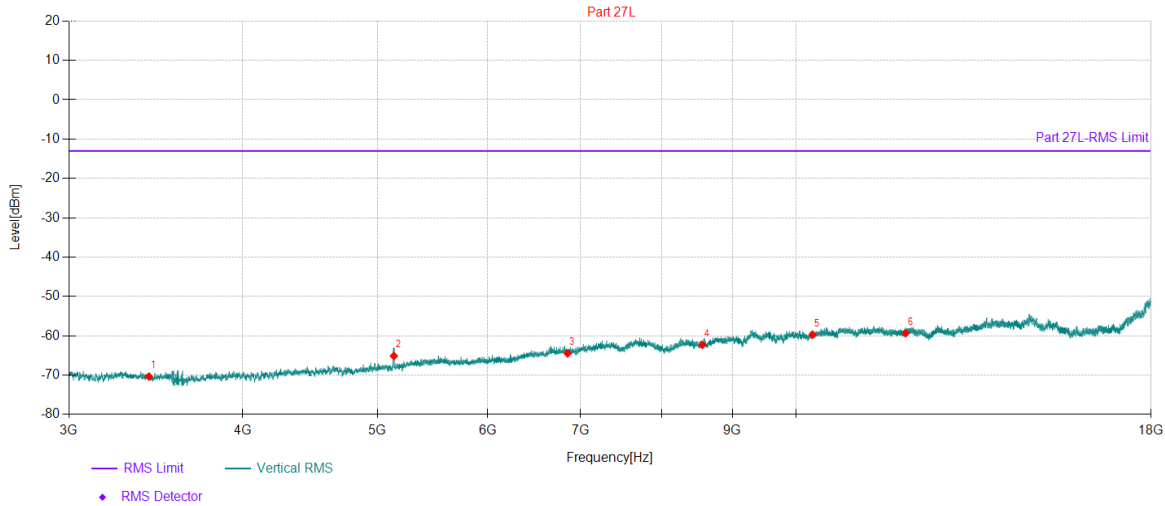
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**Test Band = WCDMA Band IV\_ TM1**  
**Test Channel = Low Channel**



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
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2	5137.2	46.16	-47.85	31.83	-65.12	-13.00	52.12	Vertical
3	6849.6	42.32	-46.81	35.27	-64.48	-13.00	51.48	Vertical
4	8562	40.05	-44.09	36.99	-62.31	-13.00	49.31	Vertical
5	10274.4	38.18	-41.40	38.75	-59.73	-13.00	46.73	Vertical
6	11986.8	36.18	-39.49	39.20	-59.37	-13.00	46.37	Vertical



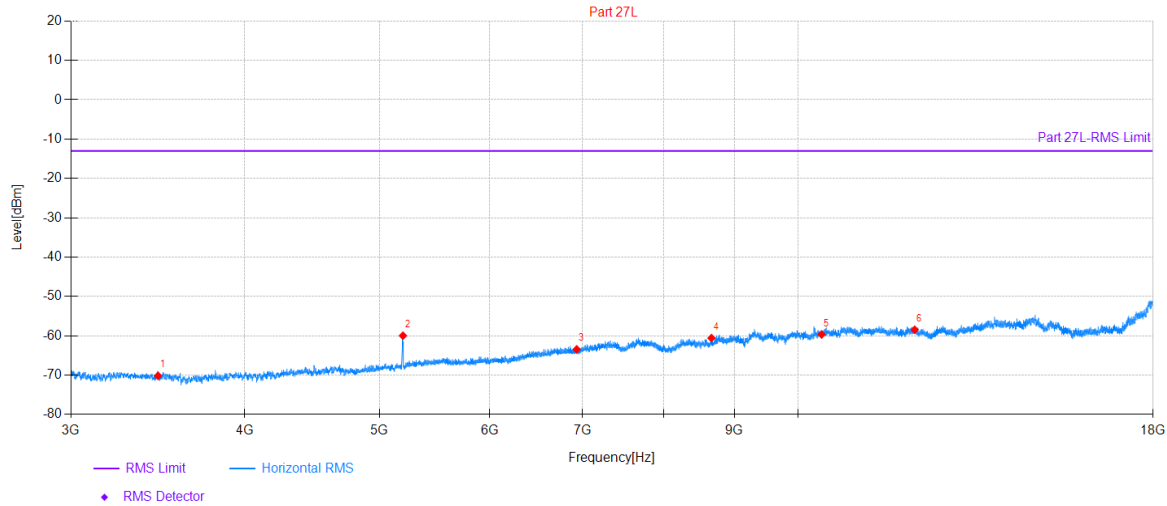
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**Test Band = WCDMA Band IV\_ TM1**

**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	44.74	-48.33	28.69	-70.16	-13.00	57.16	Horizontal
2	5197.8	51.20	-47.89	31.98	-59.97	-13.00	46.97	Horizontal
3	6930.4	43.06	-46.69	35.45	-63.44	-13.00	50.44	Horizontal
4	8663	41.62	-44.06	37.13	-60.58	-13.00	47.58	Horizontal
5	10395.6	37.98	-41.24	38.86	-59.66	-13.00	46.66	Horizontal
6	12128.2	37.35	-39.68	39.12	-58.47	-13.00	45.47	Horizontal



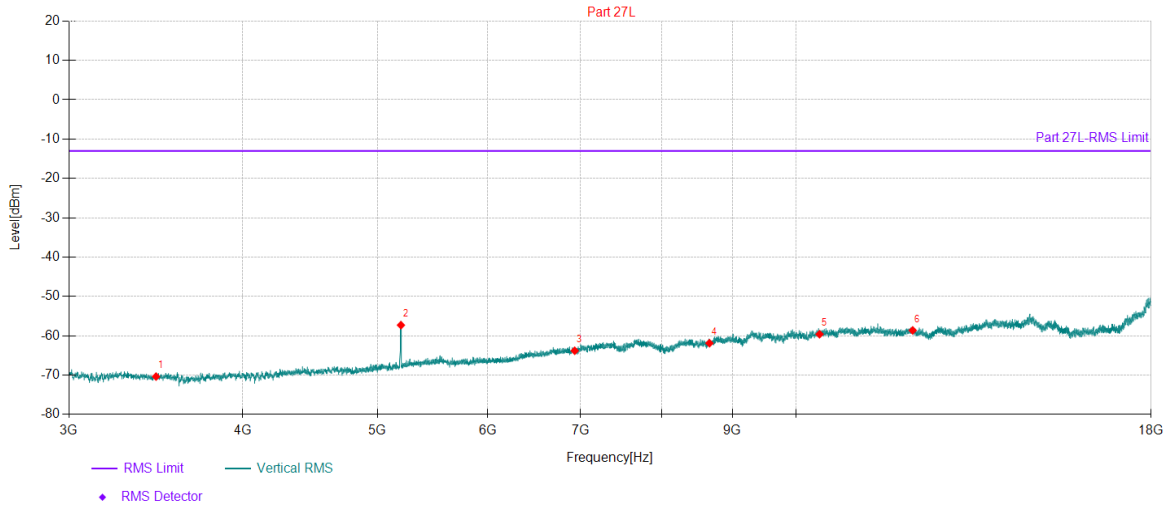
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**Test Band = WCDMA Band IV\_ TM1**

**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	44.54	-48.33	28.69	-70.36	-13.00	57.36	Vertical
2	5197.8	53.88	-47.89	31.98	-57.29	-13.00	44.29	Vertical
3	6930.4	42.70	-46.69	35.45	-63.80	-13.00	50.80	Vertical
4	8663	40.31	-44.06	37.13	-61.89	-13.00	48.89	Vertical
5	10395.6	38.04	-41.24	38.86	-59.60	-13.00	46.60	Vertical
6	12128.2	37.19	-39.68	39.12	-58.63	-13.00	45.63	Vertical



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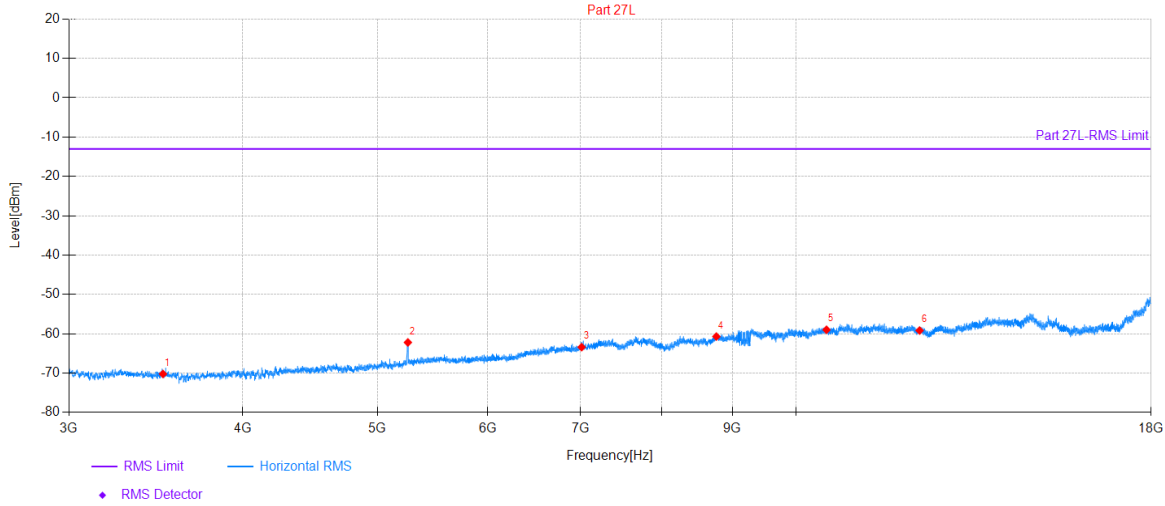


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Rev.: 01

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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	44.63	-48.29	28.71	-70.21	-13.00	57.21	Horizontal
2	5257.8	48.77	-47.83	32.12	-62.20	-13.00	49.20	Horizontal
3	7010.4	42.76	-46.52	35.63	-63.39	-13.00	50.39	Horizontal
4	8763	41.33	-44.04	37.27	-60.70	-13.00	47.70	Horizontal
5	10515.6	38.06	-40.74	38.96	-58.98	-13.00	45.98	Horizontal
6	12268.2	36.81	-39.76	39.04	-59.17	-13.00	46.17	Horizontal



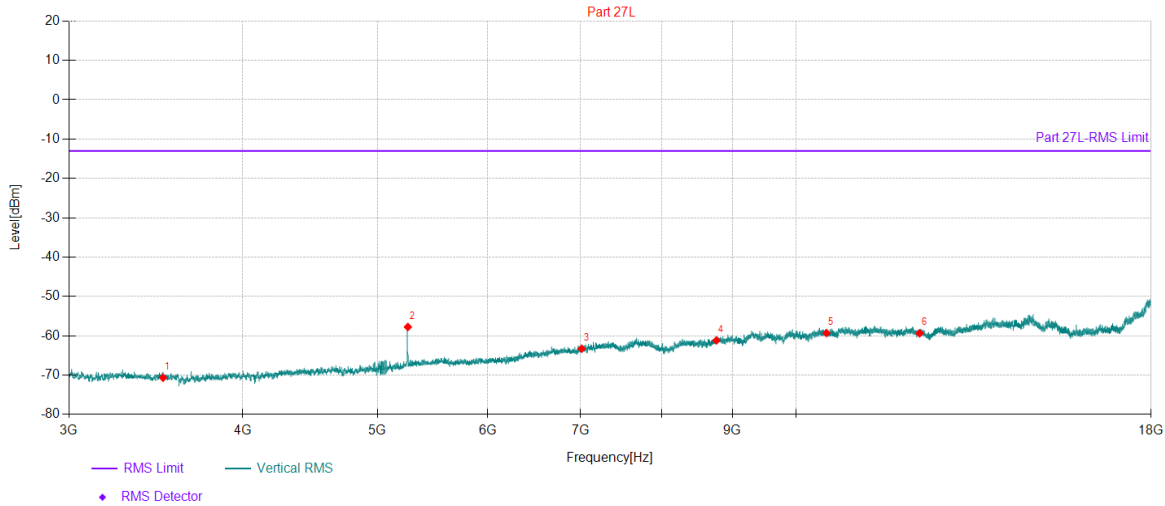
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Member of the SGS Group (SGS SA)

**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	44.18	-48.29	28.71	-70.66	-13.00	57.66	Vertical
2	5257.8	53.21	-47.83	32.12	-57.76	-13.00	44.76	Vertical
3	7010.4	42.86	-46.52	35.63	-63.29	-13.00	50.29	Vertical
4	8763	40.84	-44.04	37.27	-61.19	-13.00	48.19	Vertical
5	10515.6	37.73	-40.74	38.96	-59.31	-13.00	46.31	Vertical
6	12268.2	36.61	-39.76	39.04	-59.37	-13.00	46.37	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

Table with columns: Network, Frequency (MHz), Temp. (°C), Voltage (VDC), Freq. Error (Hz), Freq. vs. Rated (ppm) (Result, Limit), Verdict. Data rows for RMC network at frequencies 1712.4, 1732.6, and 1752.6 MHz.

---End of Attachment---



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