

Report No.: SUCR240400011301
Rev.: 01
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Appendix B.2

WCDMA Band IV



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1. Effective (Isotropic) Radiated Power Output Data

1.1 Band IV_EIRP (NPANT001)

1.1.1 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	23.10	3.91	27.01	<=30	Pass
			1732.6	23.17	3.91	27.08	<=30	Pass
			1752.6	23.21	3.91	27.12	<=30	Pass

Note1: EIRP=Conducted Power+Antenna Gain



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2. Frequency Stability

2.1 Band IV

2.1.1 Test Result

Table with columns: Network, Frequency (MHz), Temp. (°C), Voltage (VDC), Freq. Error (Hz), Freq. vs. Rated (ppm) (Result, Limit), Verdict. Data is organized by frequency bands (1712.4, 1732.6, 1752.6) and temperature points (-30, -20, -10, 0, 10, 30, 40, 50).



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3. 99% & 26dB Bandwidth

3.1 Band IV_OBW

3.1.1 Test Result

Table with 6 columns: ENV, Mode (Network, Subset), Frequency (MHz), 99% Occupied Bandwidth (MHz) (Result, Limit), and Verdict. Data rows show NTNV with RMC mode and 12.2kbps RMC subset, with frequencies 1712.4, 1732.6, and 1752.6 MHz, all resulting in 'Pass' verdicts.



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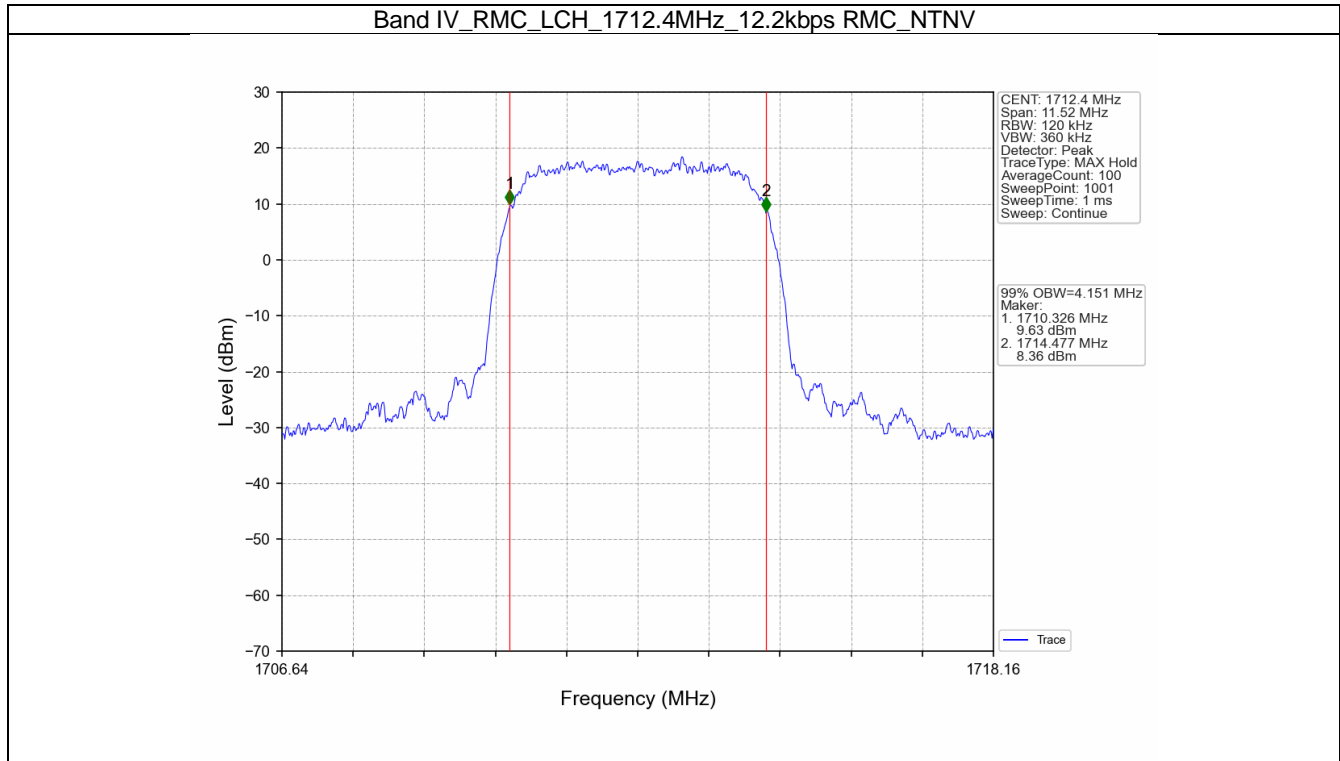
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3.1.2 Test Graph



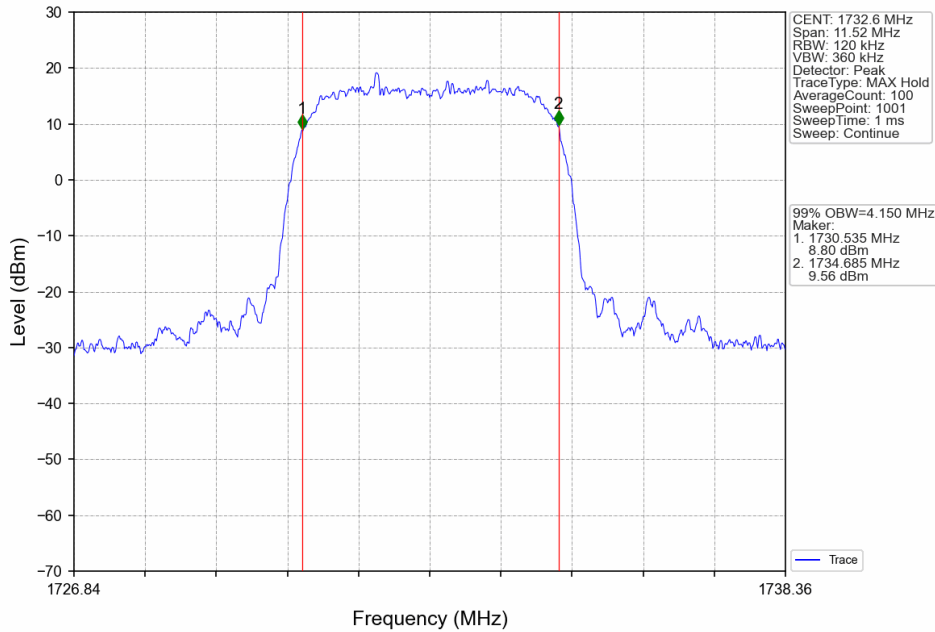
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Band IV_RMC_MCH_1732.6MHz_12.2kbps RMC_NTNV



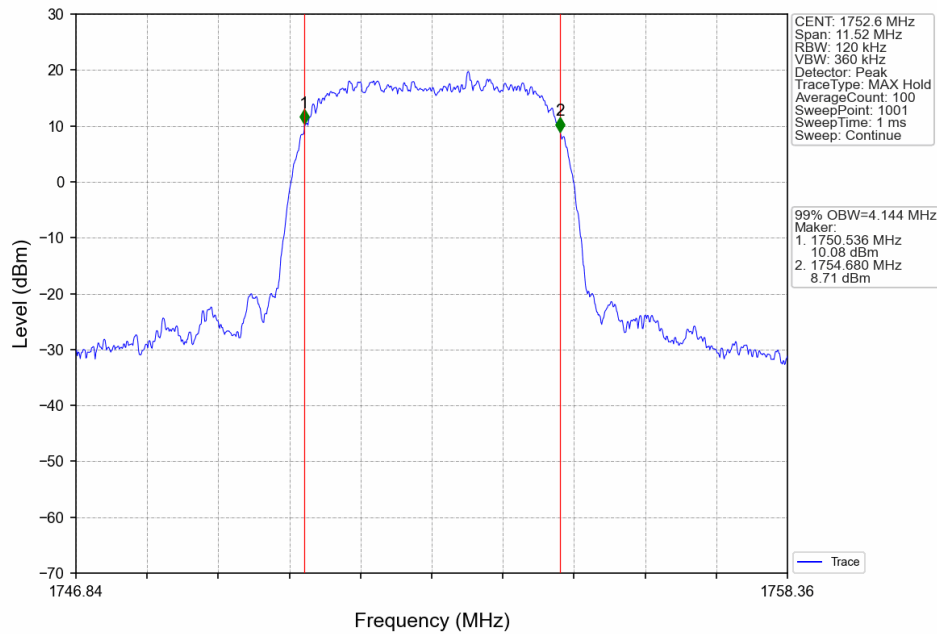
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Band IV_RMC_HCH_1752.6MHz_12.2kbps RMC_NTNV



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3.2 Band IV_XDB

3.2.1 Test Result

ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1712.4	4.761	/	Pass
			1732.6	4.721	/	Pass
			1752.6	4.738	/	Pass



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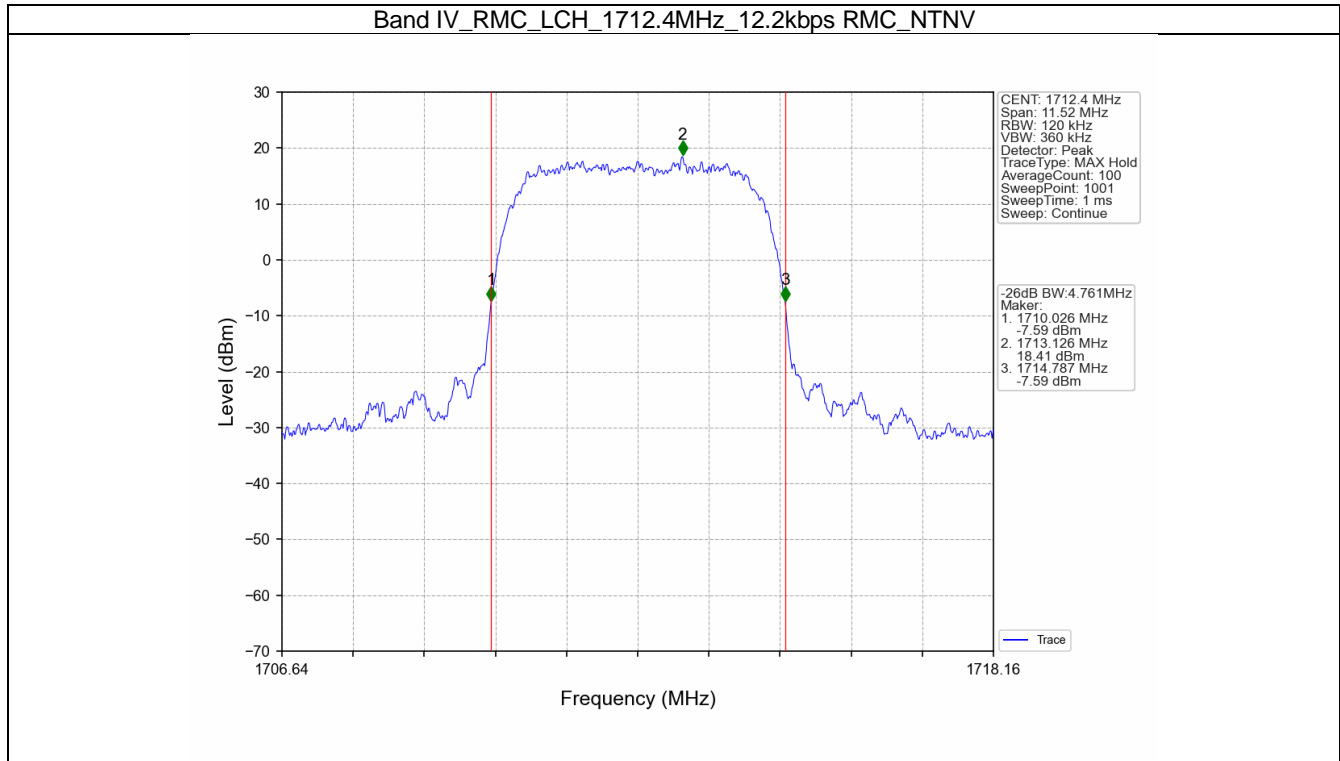
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3.2.2 Test Graph



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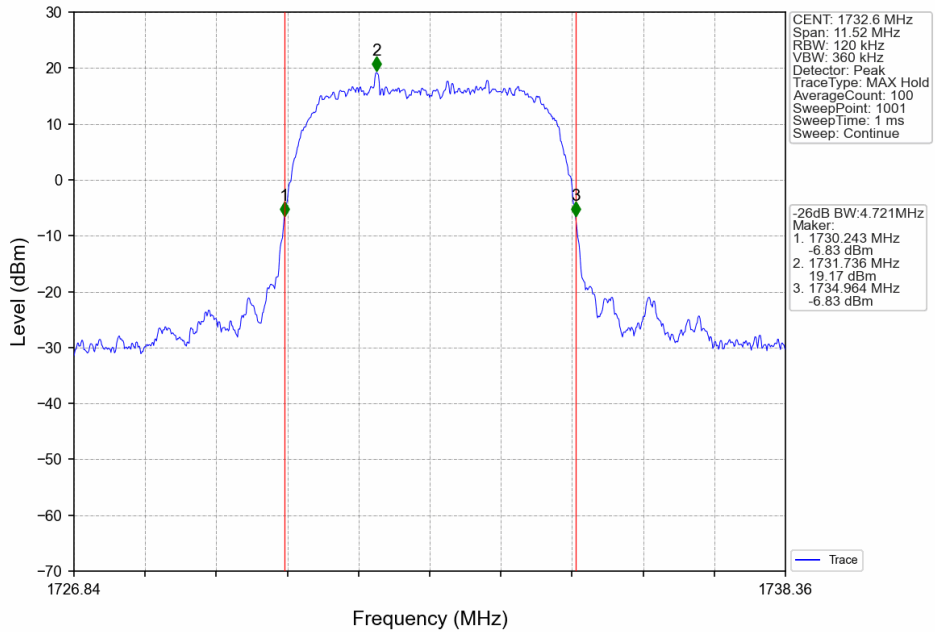
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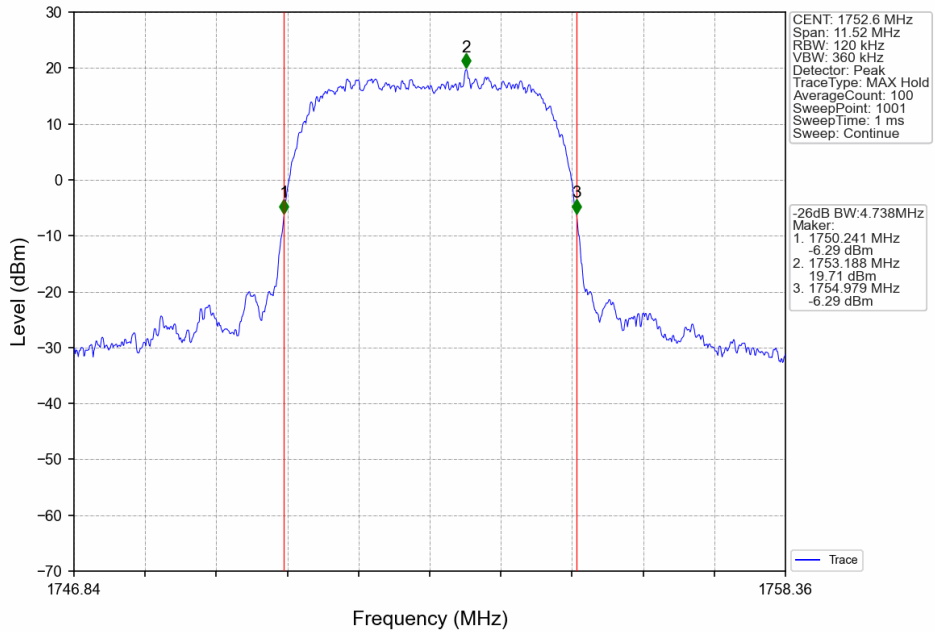
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4. Peak-Average Ratio

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	2.83	<=13	Pass
			1732.6	2.83	<=13	Pass
			1752.6	2.79	<=13	Pass



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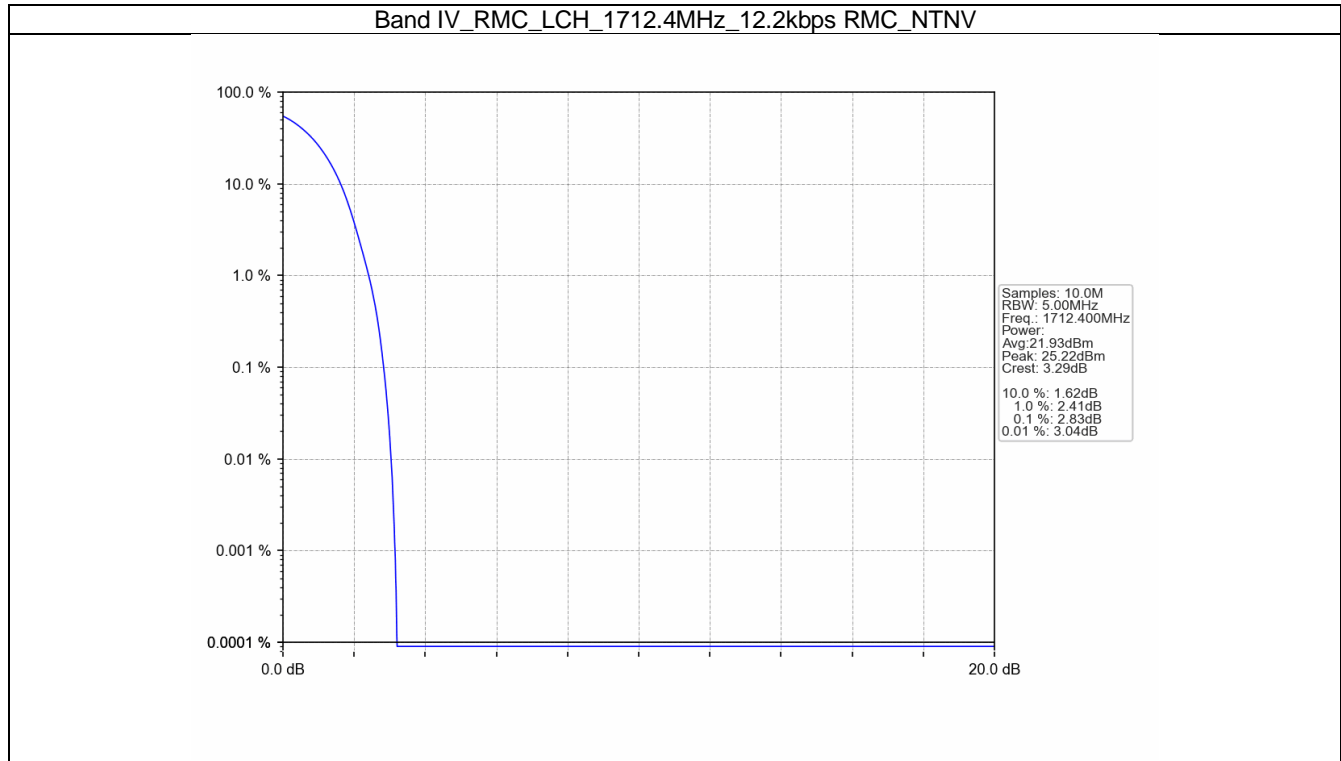
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4.1.2 Test Graph



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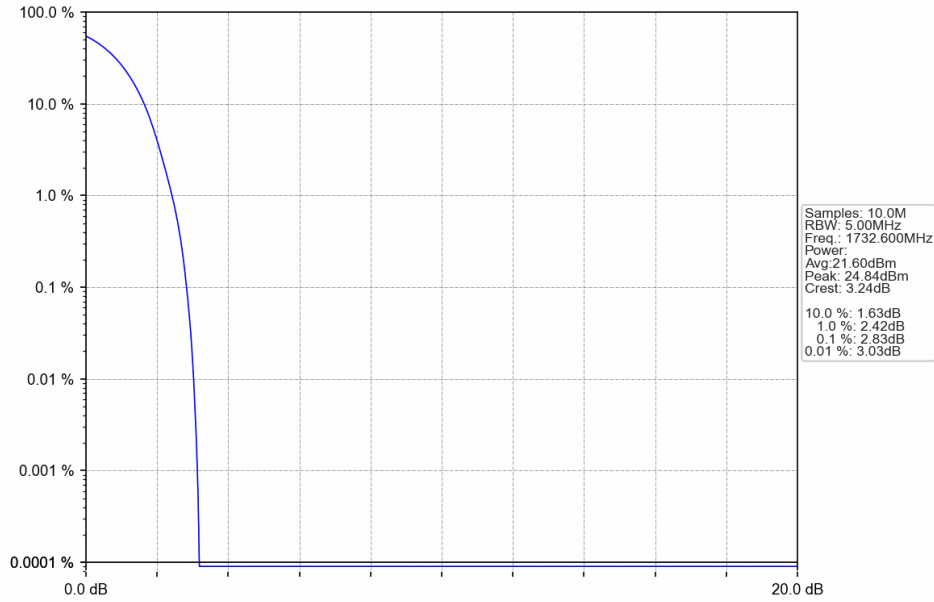
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Band IV_RMC_MCH_1732.6MHz_12.2kbps RMC_NTNV



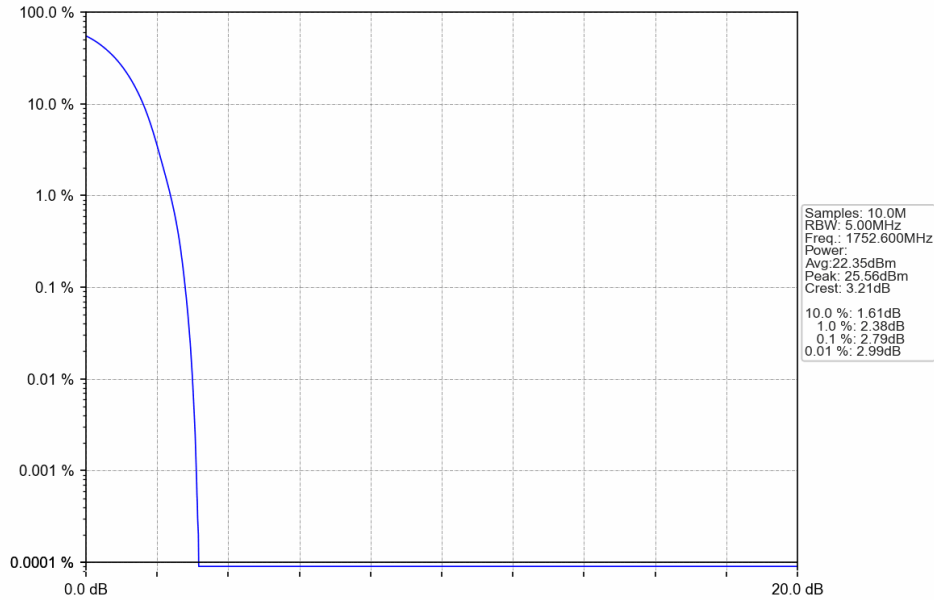
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Band IV_RMC_HCH_1752.6MHz_12.2kbps RMC_NTNV



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5. Spurious Emission & Band Edge

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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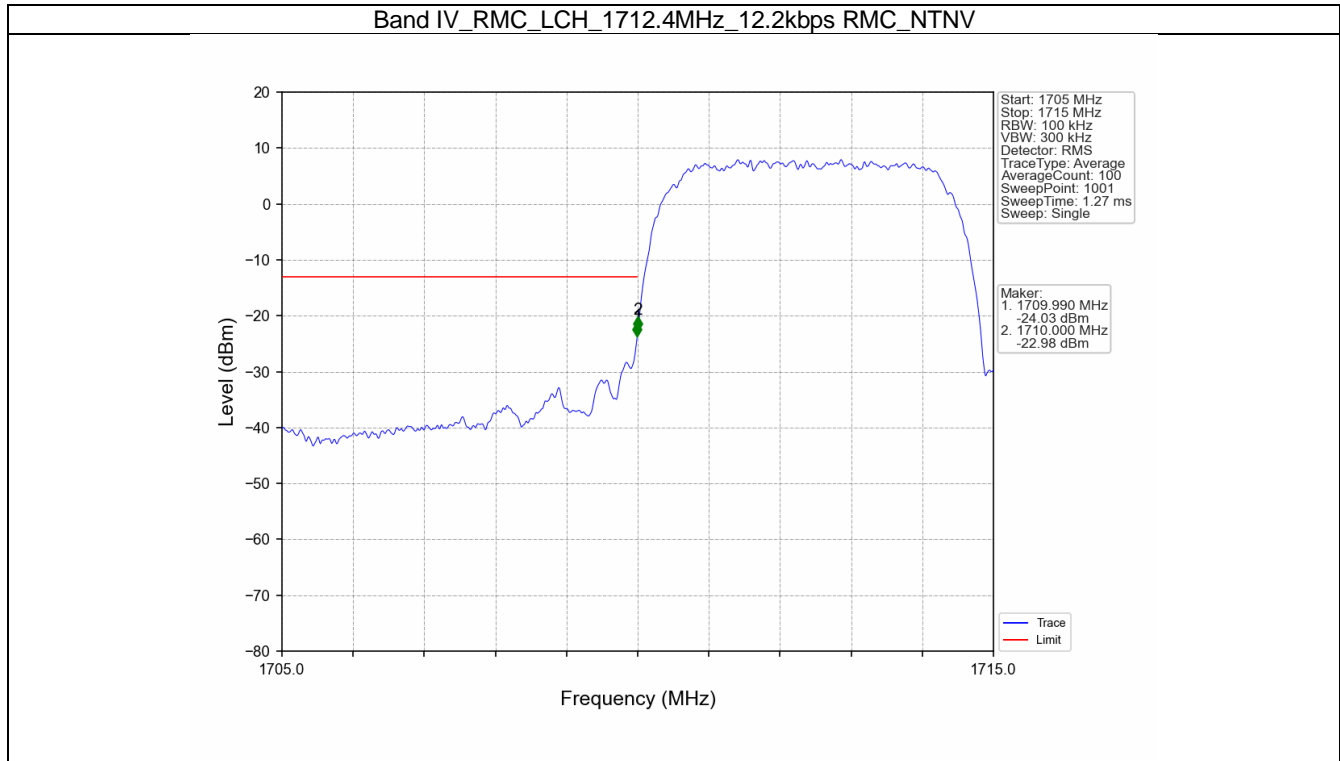
SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.
 Wireless Laboratories

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5.1.2 Test Graph



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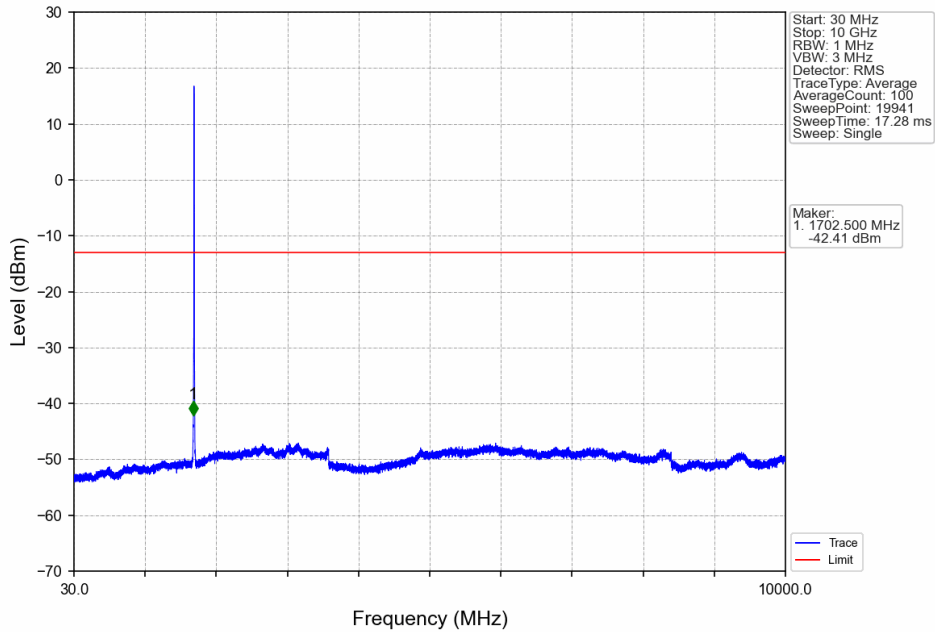
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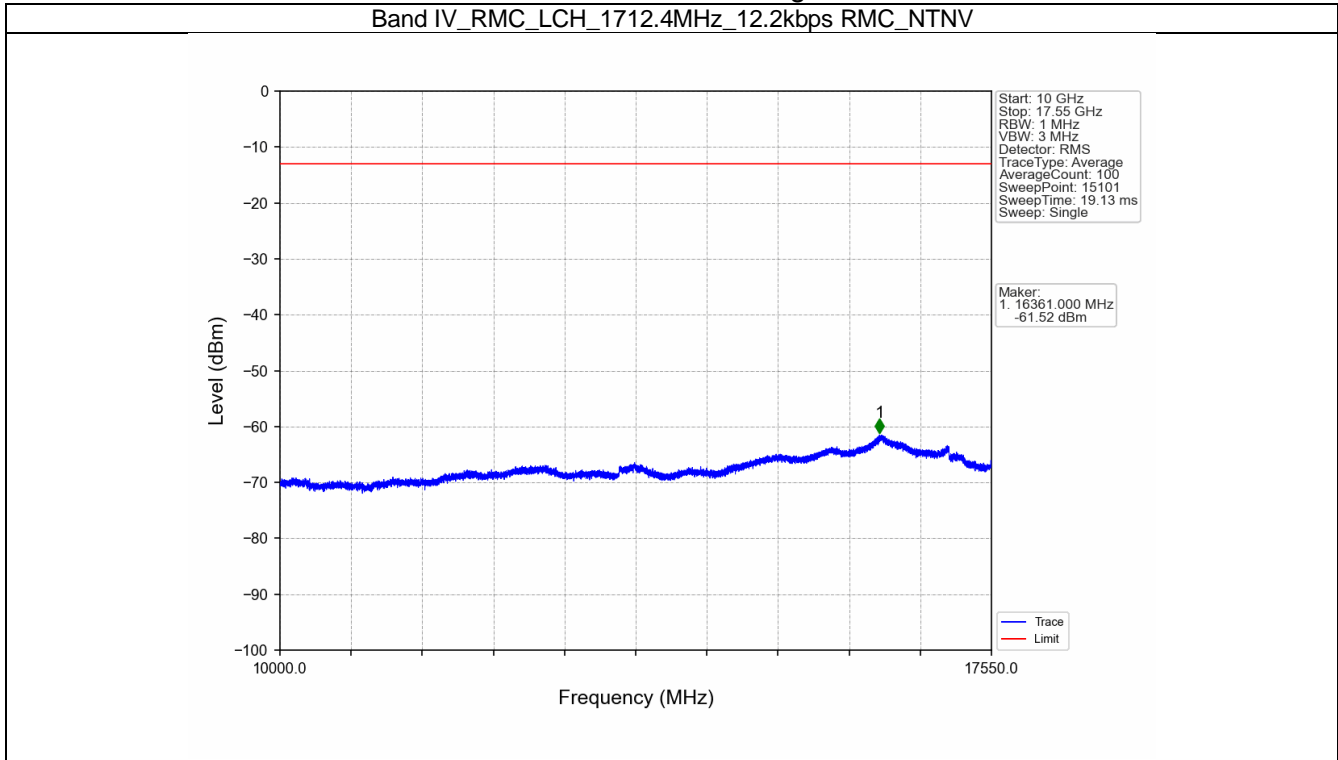
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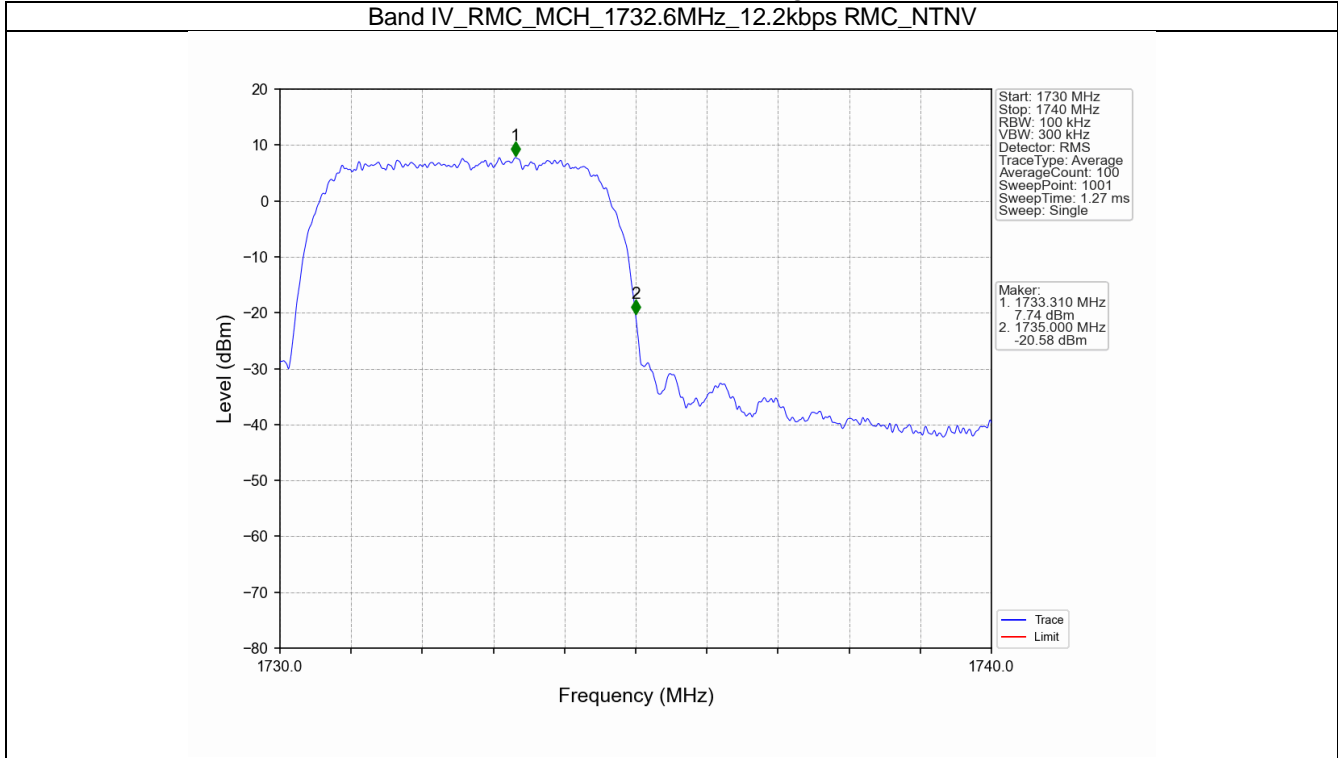
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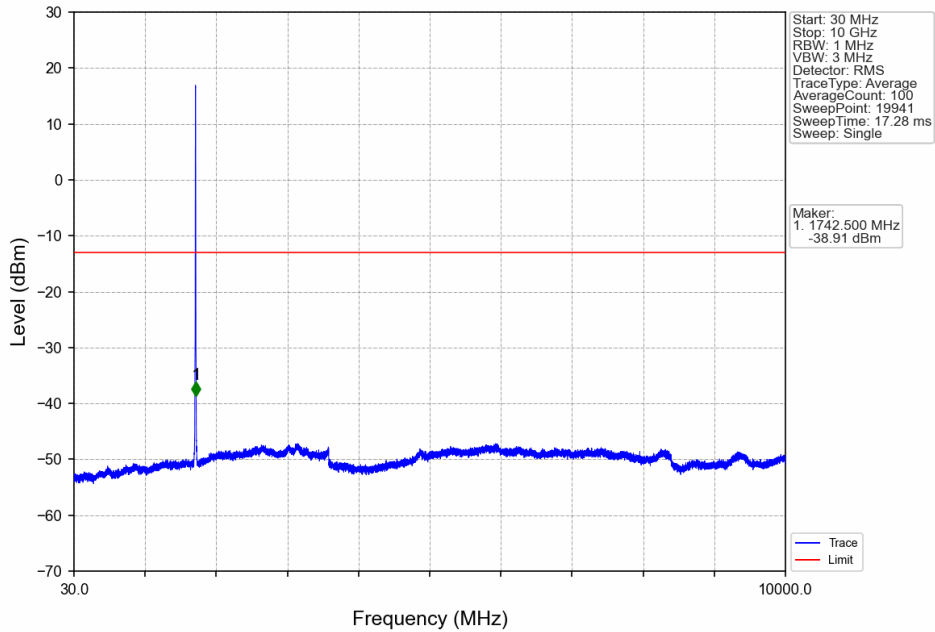
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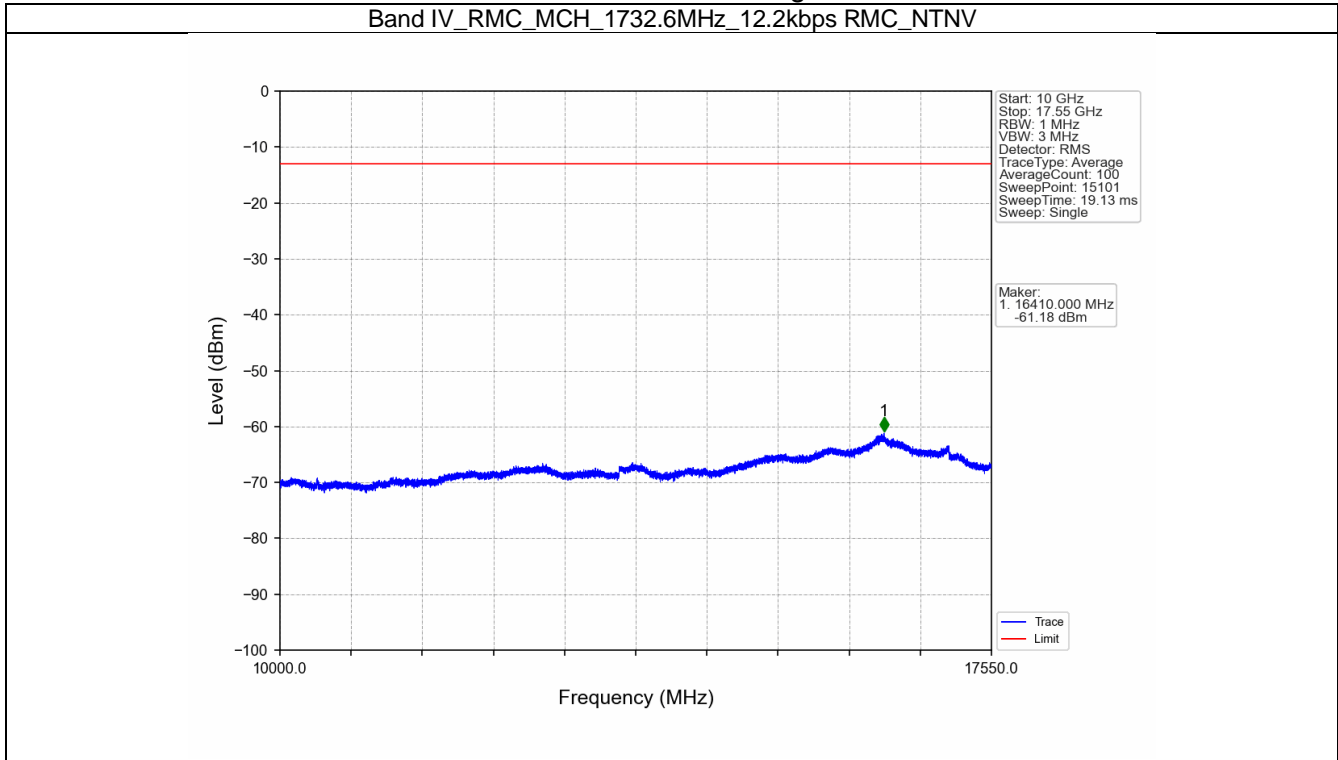
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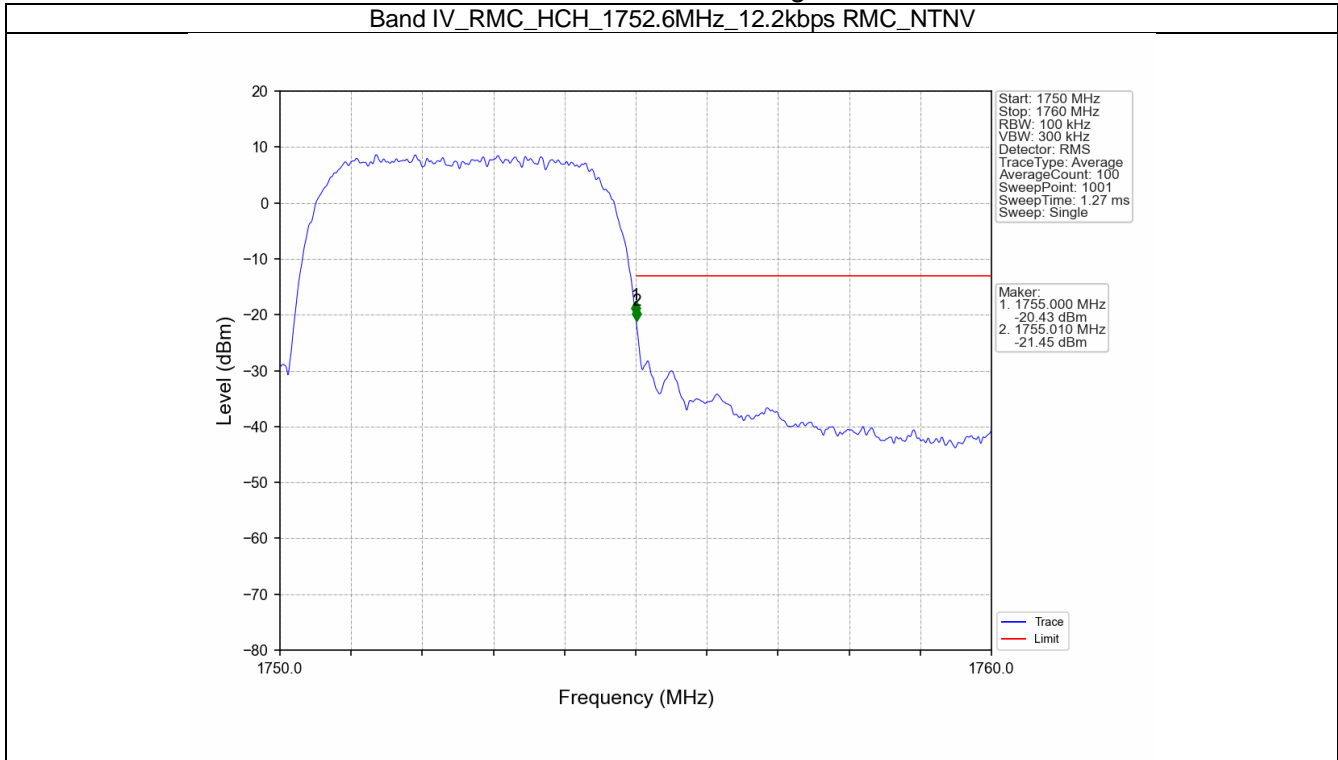
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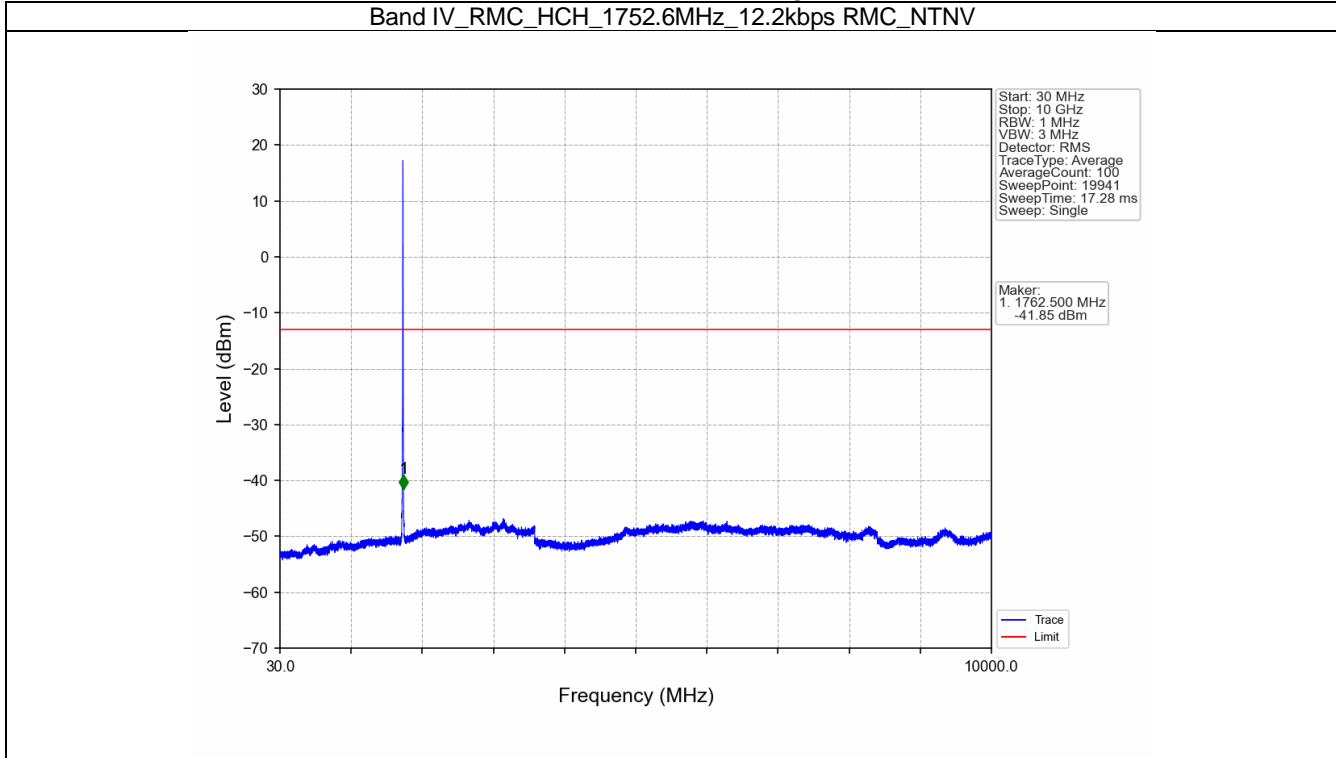
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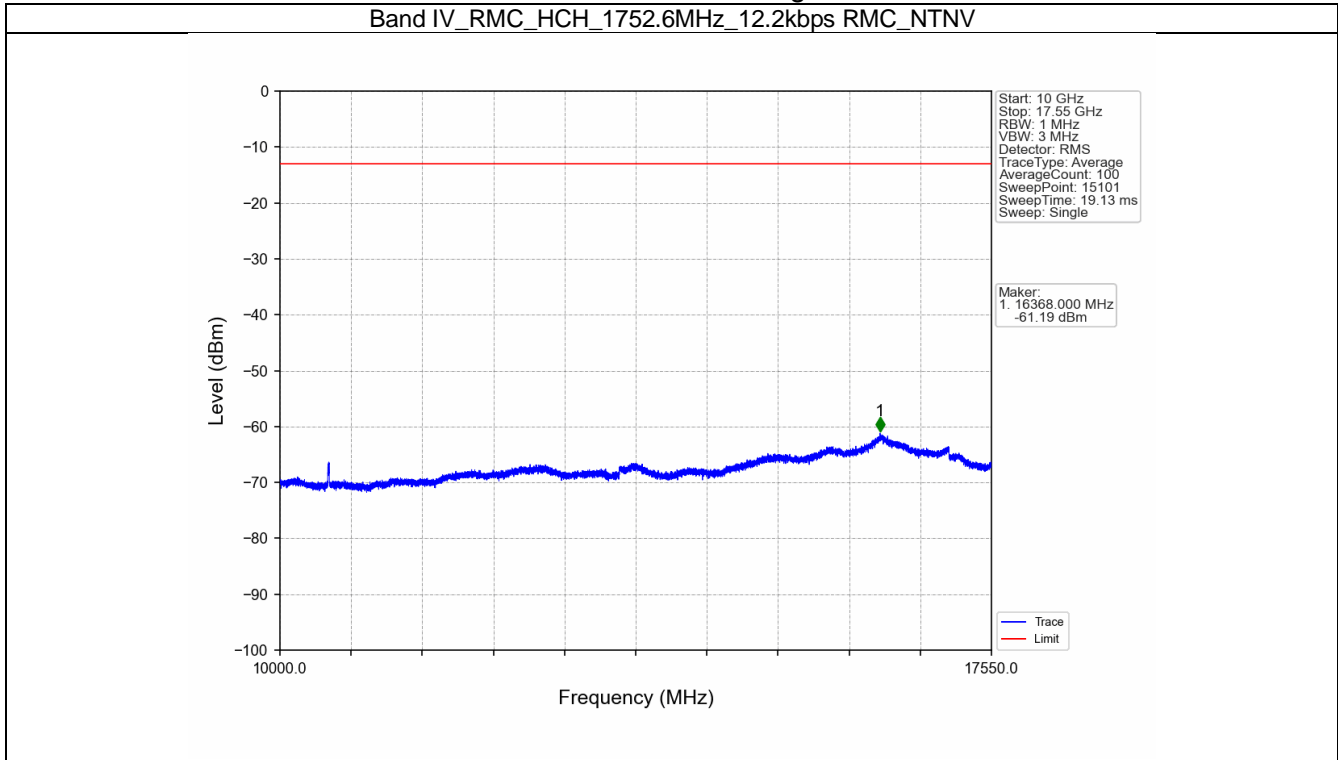
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6. Field Strength of Spurious Radiation

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	37.54	-43.25	29.59	-71.39	-13.00	58.39	Horizontal
2	5137.2	35.50	-41.10	33.17	-67.69	-13.00	54.69	Horizontal
3	6849.6	34.32	-38.40	35.94	-63.40	-13.00	50.40	Horizontal
4	8562	32.78	-35.32	37.38	-60.42	-13.00	47.42	Horizontal
5	10274.4	30.18	-32.18	38.04	-59.22	-13.00	46.22	Horizontal
6	11986.8	29.30	-29.64	38.40	-57.20	-13.00	44.20	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3424.8	35.85	-43.25	29.59	-73.08	-13.00	60.08	Vertical
2	5137.2	35.00	-41.10	33.17	-68.19	-13.00	55.19	Vertical
3	6849.6	34.57	-38.40	35.94	-63.15	-13.00	50.15	Vertical
4	8562	32.24	-35.32	37.38	-60.96	-13.00	47.96	Vertical
5	10274.4	30.42	-32.18	38.04	-58.98	-13.00	45.98	Vertical
6	11986.8	28.88	-29.64	38.40	-57.62	-13.00	44.62	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	36.64	-43.16	29.59	-72.19	-13.00	59.19	Horizontal
2	5197.8	35.18	-40.82	33.16	-67.74	-13.00	54.74	Horizontal
3	6930.4	34.59	-38.35	35.97	-63.04	-13.00	50.04	Horizontal
4	8663	30.77	-35.33	37.43	-62.39	-13.00	49.39	Horizontal
5	10395.6	29.11	-31.48	38.10	-59.53	-13.00	46.53	Horizontal
6	12128.2	28.72	-29.39	38.55	-57.37	-13.00	44.37	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3465.2	35.87	-43.16	29.59	-72.96	-13.00	59.96	Vertical
2	5197.8	34.51	-40.82	33.16	-68.41	-13.00	55.41	Vertical
3	6930.4	33.71	-38.35	35.97	-63.92	-13.00	50.92	Vertical
4	8663	31.69	-35.33	37.43	-61.47	-13.00	48.47	Vertical
5	10395.6	30.63	-31.48	38.10	-58.01	-13.00	45.01	Vertical
6	12128.2	28.96	-29.39	38.55	-57.13	-13.00	44.13	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	36.46	-43.06	29.62	-72.24	-13.00	59.24	Horizontal
2	5257.8	34.92	-40.87	33.15	-68.06	-13.00	55.06	Horizontal
3	7010.4	34.29	-38.35	36.01	-63.31	-13.00	50.31	Horizontal
4	8763	31.74	-35.10	37.48	-61.13	-13.00	48.13	Horizontal
5	10515.6	29.06	-31.20	38.16	-59.24	-13.00	46.24	Horizontal
6	12268.2	28.71	-29.90	38.72	-57.73	-13.00	44.73	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3505.2	35.28	-43.06	29.62	-73.42	-13.00	60.42	Vertical
2	5257.8	34.63	-40.87	33.15	-68.35	-13.00	55.35	Vertical
3	7010.4	33.94	-38.35	36.01	-63.66	-13.00	50.66	Vertical
4	8763	31.44	-35.10	37.48	-61.43	-13.00	48.43	Vertical
5	10515.6	28.84	-31.20	38.16	-59.46	-13.00	46.46	Vertical
6	12268.2	29.45	-29.90	38.72	-56.99	-13.00	43.99	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

---End of Attachment---



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