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Rev.: 01
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Appendix B.2

WCDMA Band IV



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1. Effective (Isotropic) Radiated Power Output Data

For report SUCR240400011301:

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

For report SUCR240500014801:

1.2 Band IV _EIRP (NPANT001)

1.2.1 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	22.94	3.91	26.85	<=30	Pass
			1732.6	22.86	3.91	26.77	<=30	Pass
			1752.6	22.96	3.91	26.87	<=30	Pass

Note1: EIRP=Conducted Power+Antenna Gain



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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	3.135	6.492	0.0038	/	Pass	
			3.7	7.383	0.0043	/	Pass	
			4.4	7.811	0.0046	/	Pass	
		-30	3.7	6.555	0.0038	/	Pass	
			-20	3.7	7.835	0.0046	/	Pass
				-10	3.7	7.596	0.0044	/
		0	3.7	8.248	0.0048	/	Pass	
			10	3.7	8.285	0.0048	/	Pass
			30	3.7	7.755	0.0045	/	Pass
			40	3.7	7.792	0.0046	/	Pass
	50		3.7	8.610	0.0050	/	Pass	
	1732.6		20	3.135	-12.503	-0.0072	/	Pass
				3.7	-11.025	-0.0064	/	Pass
		4.4		-11.513	-0.0066	/	Pass	
		-30	3.7	-11.828	-0.0068	/	Pass	
			-20	3.7	-11.932	-0.0069	/	Pass
				-10	3.7	-11.869	-0.0069	/
		0	3.7	-11.908	-0.0069	/	Pass	
			10	3.7	-12.113	-0.0070	/	Pass
			30	3.7	-11.433	-0.0066	/	Pass
			40	3.7	-12.019	-0.0069	/	Pass
	50		3.7	-11.826	-0.0068	/	Pass	
	1752.6		20	3.135	-1.095	-0.0006	/	Pass
				3.7	-0.003	0.0000	/	Pass
		4.4		-0.484	-0.0003	/	Pass	
		-30	3.7	-0.934	-0.0005	/	Pass	
			-20	3.7	-1.472	-0.0008	/	Pass
				-10	3.7	-0.936	-0.0005	/
		0	3.7	-1.312	-0.0007	/	Pass	
			10	3.7	-1.268	-0.0007	/	Pass
30			3.7	-1.792	-0.0010	/	Pass	
40			3.7	-0.677	-0.0004	/	Pass	
50	3.7		-0.745	-0.0004	/	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	4.151	/	Pass
			1732.6	4.150	/	Pass
			1752.6	4.144	/	Pass



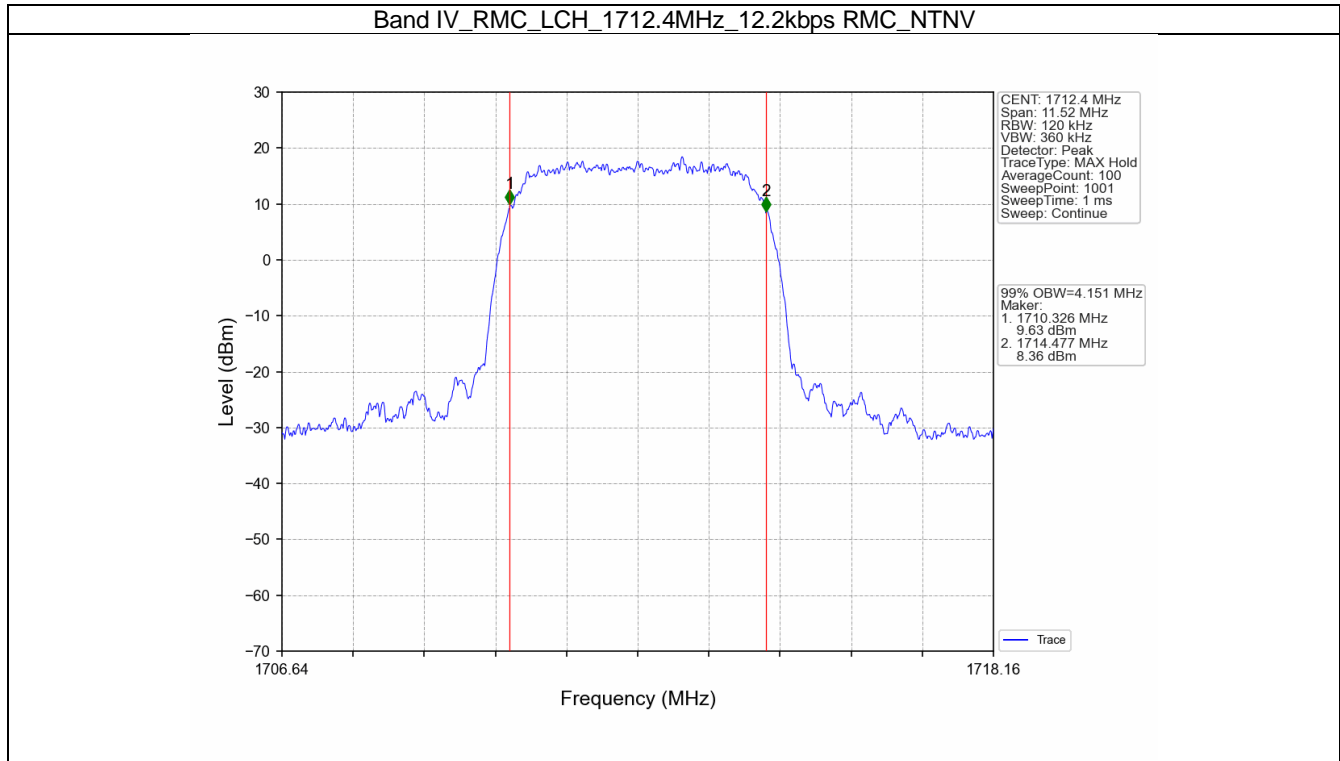
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3.1.2 Test Graph



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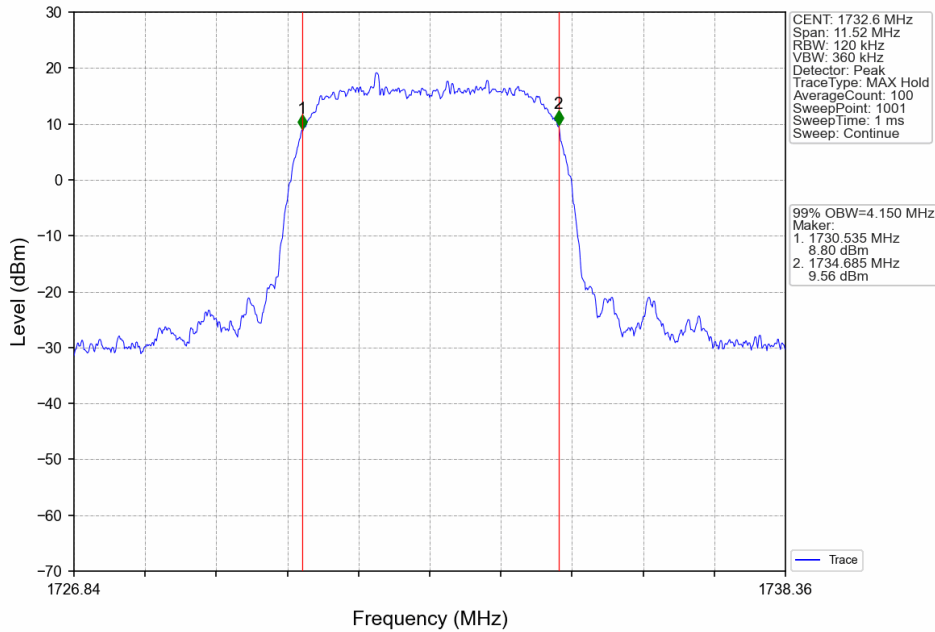
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Band IV_RMC_MCH_1732.6MHz_12.2kbps RMC_NTNV



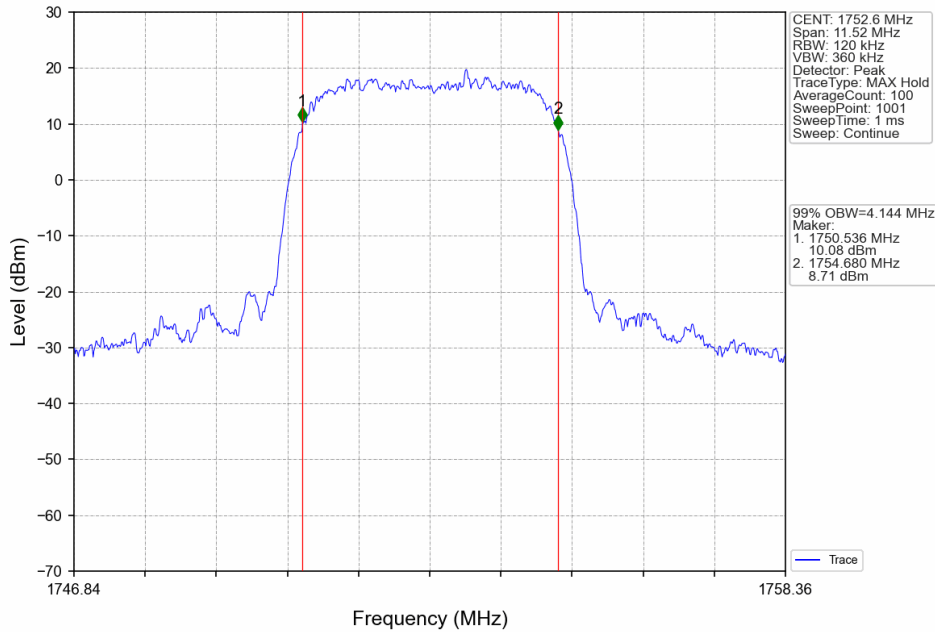
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Band IV_RMC_HCH_1752.6MHz_12.2kbps RMC_NTNV



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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	4.761	/	Pass
			1732.6	4.721	/	Pass
			1752.6	4.738	/	Pass

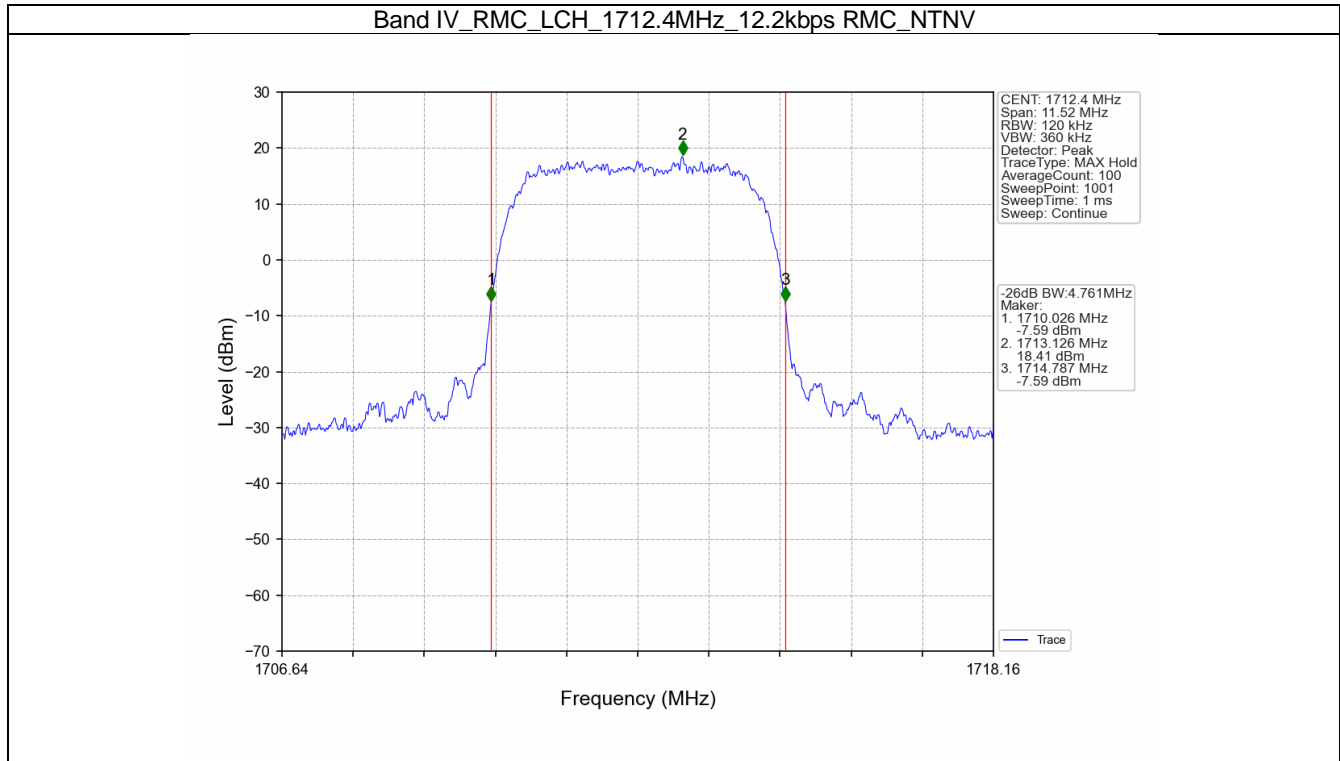


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3.2.2 Test Graph



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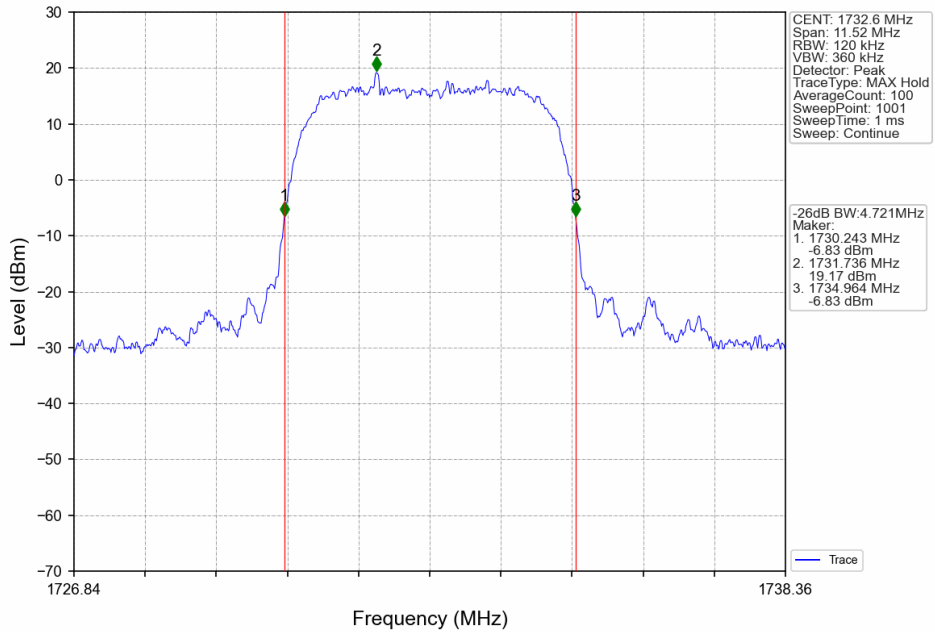
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Band IV_RMC_MCH_1732.6MHz_12.2kbps RMC_NTNV



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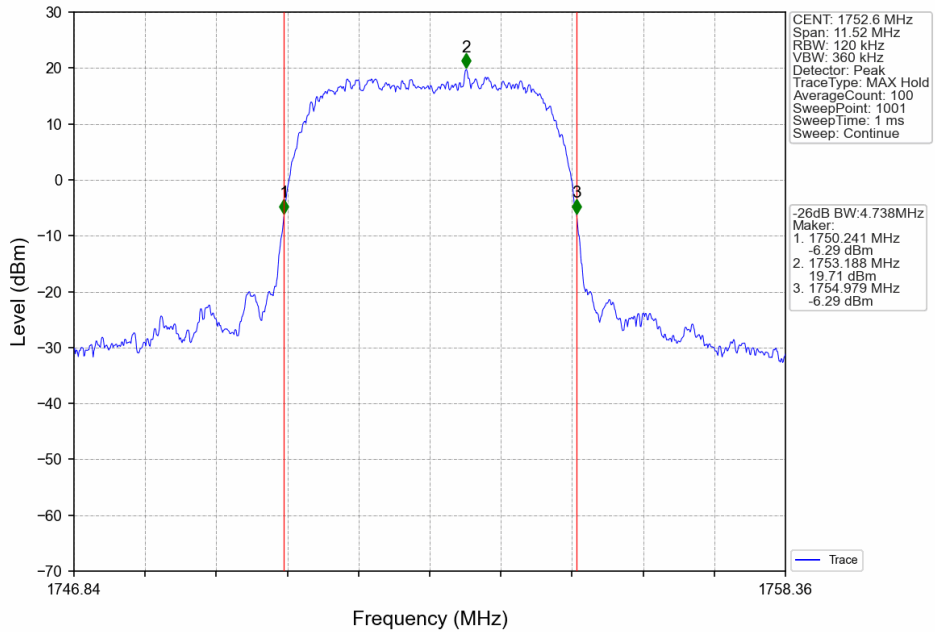
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Band IV_RMC_HCH_1752.6MHz_12.2kbps RMC_NTNV



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



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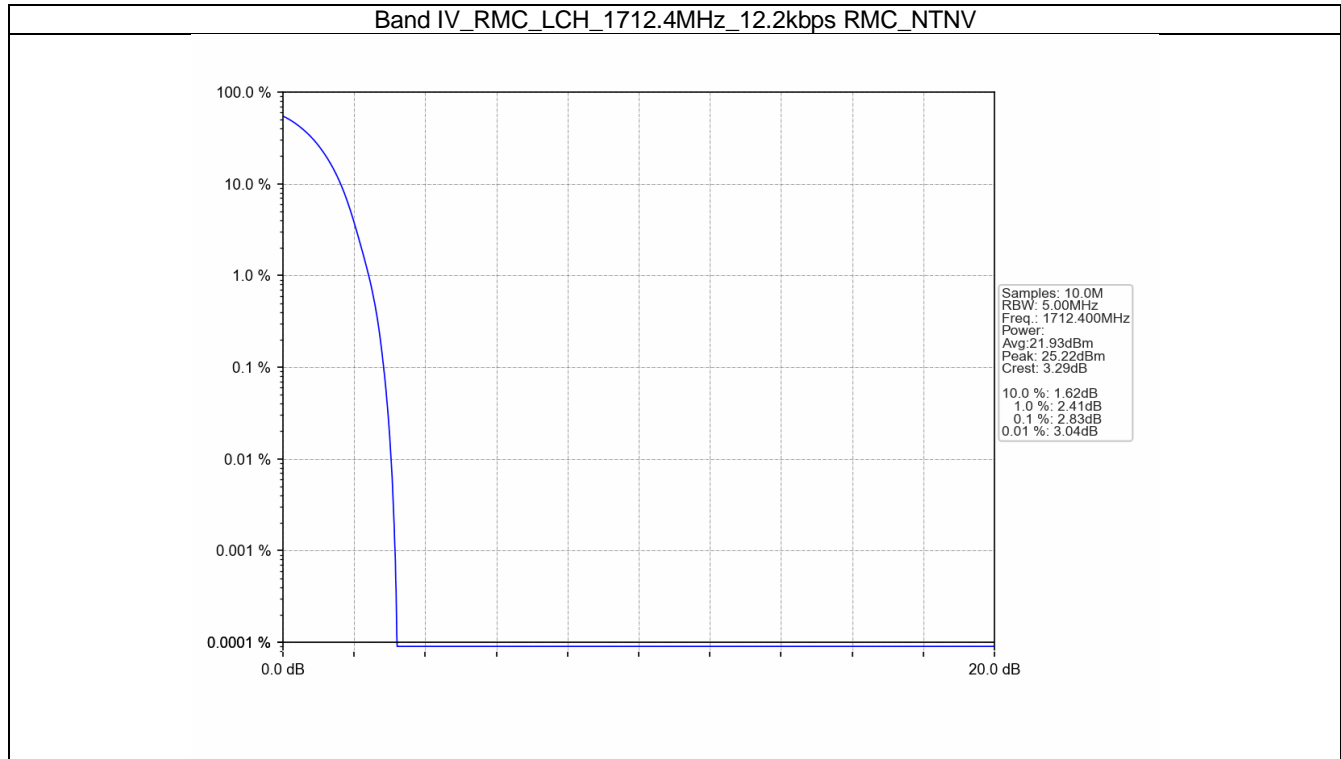
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4.1.2 Test Graph



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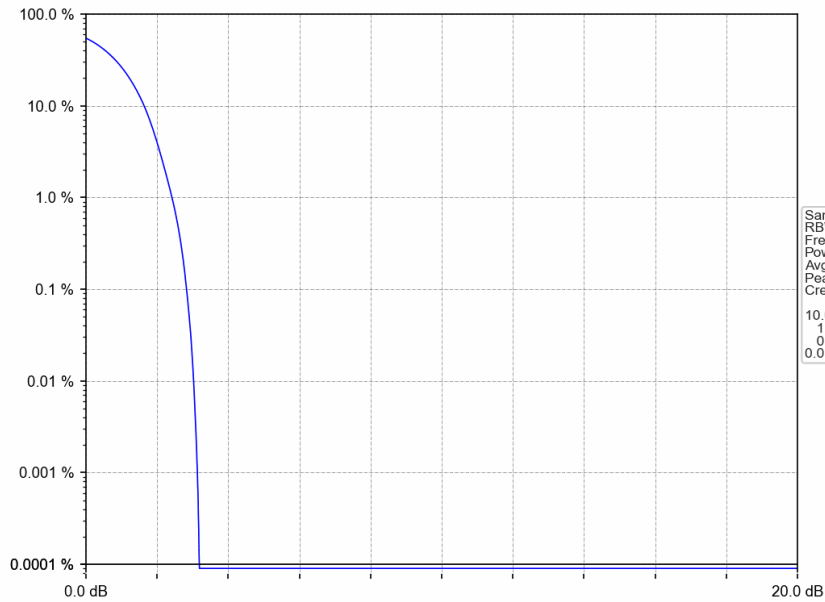
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Report No.: SUCR240500014801

Rev.: 01

Page: 14 of 28

Band IV_RMC_MCH_1732.6MHz_12.2kbps RMC_NTNV



Samples: 10.0M
 RBW: 5.00MHz
 Freq.: 1732.600MHz
 Power:
 Avg: 21.60dBm
 Peak: 24.84dBm
 Crest: 3.24dB
 10.0%: 1.63dB
 1.0%: 2.42dB
 0.1%: 2.83dB
 0.01%: 3.03dB

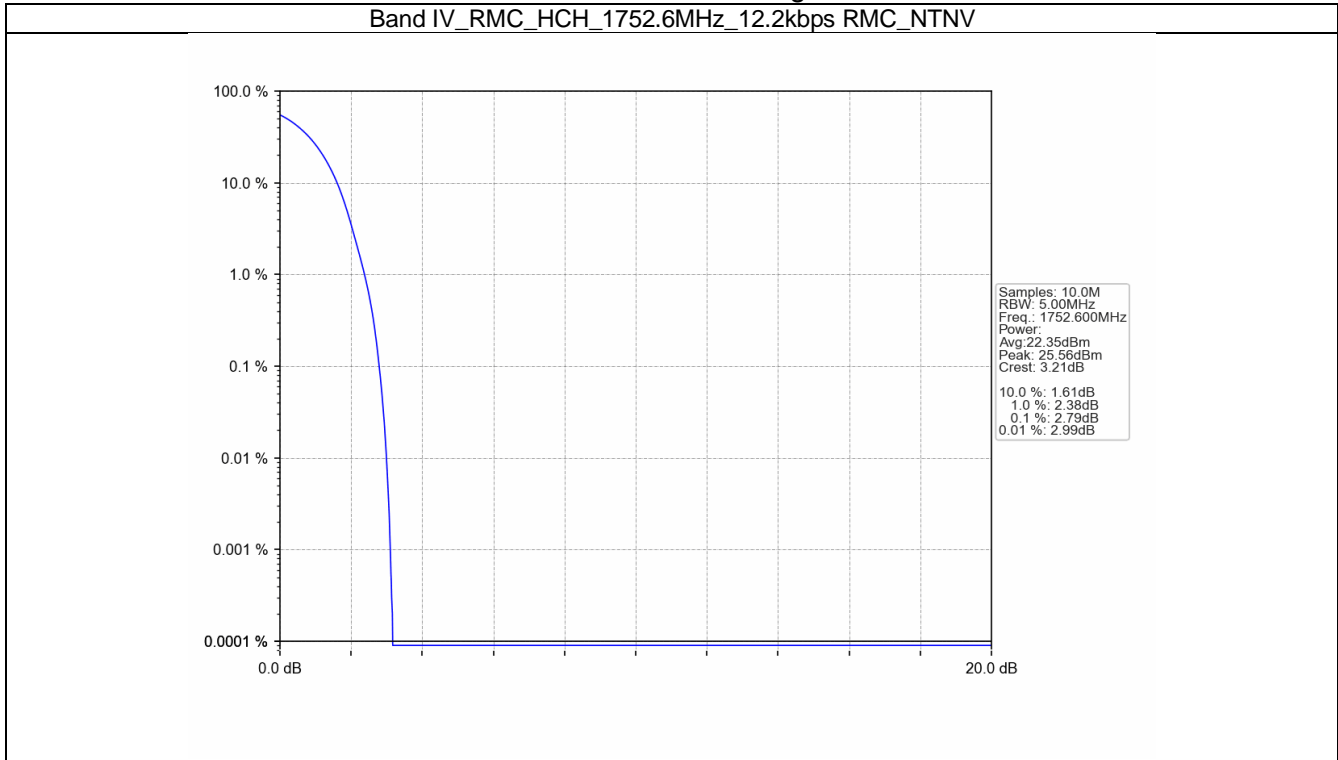


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Band IV_RMC_HCH_1752.6MHz_12.2kbps RMC_NTNV



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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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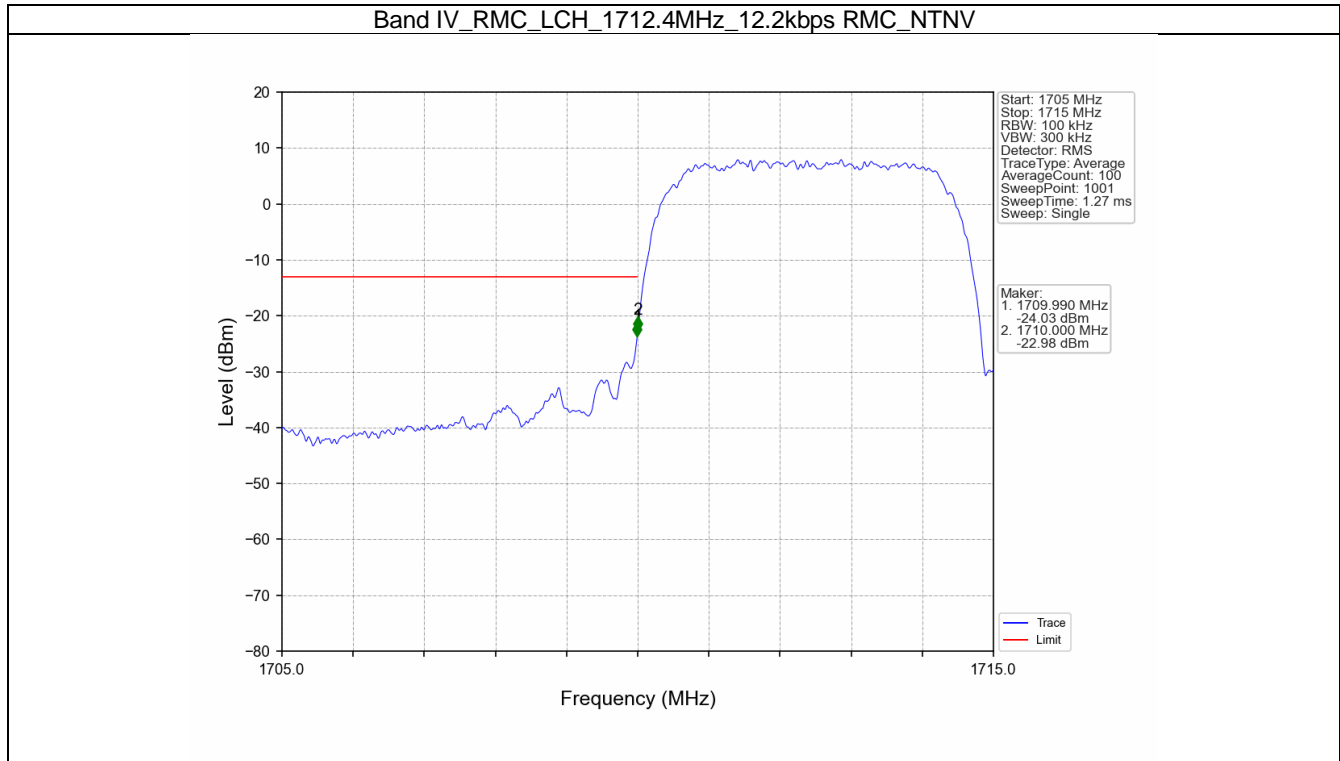
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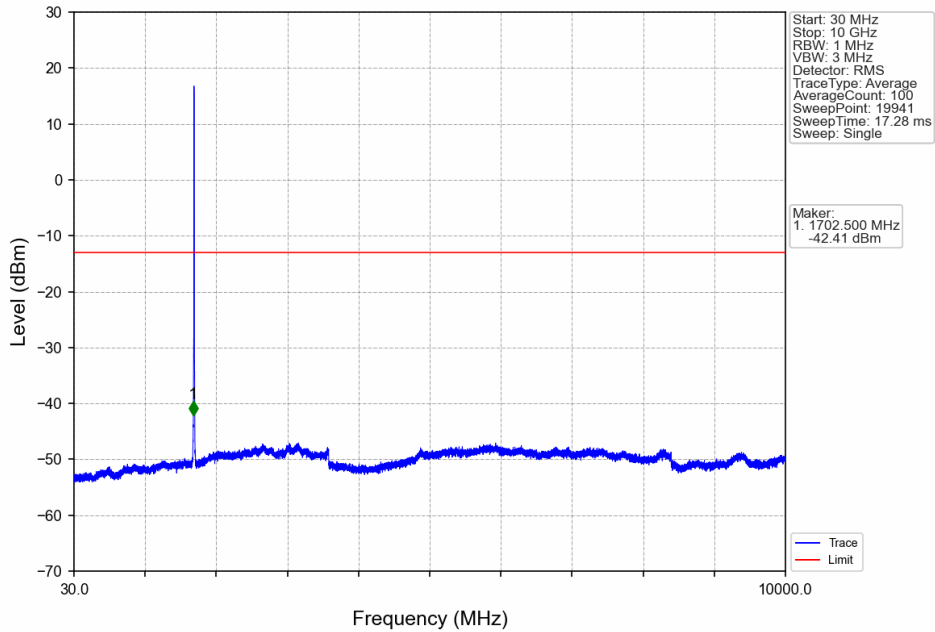
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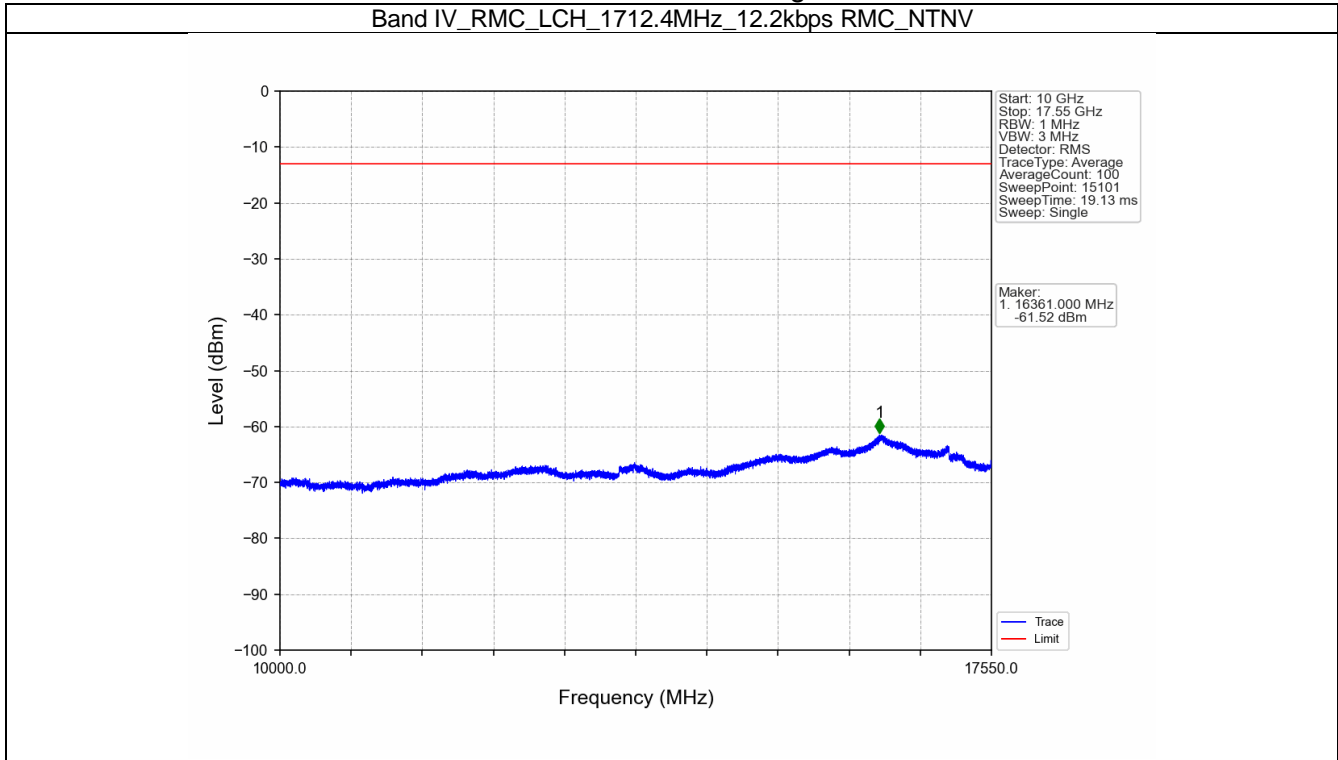
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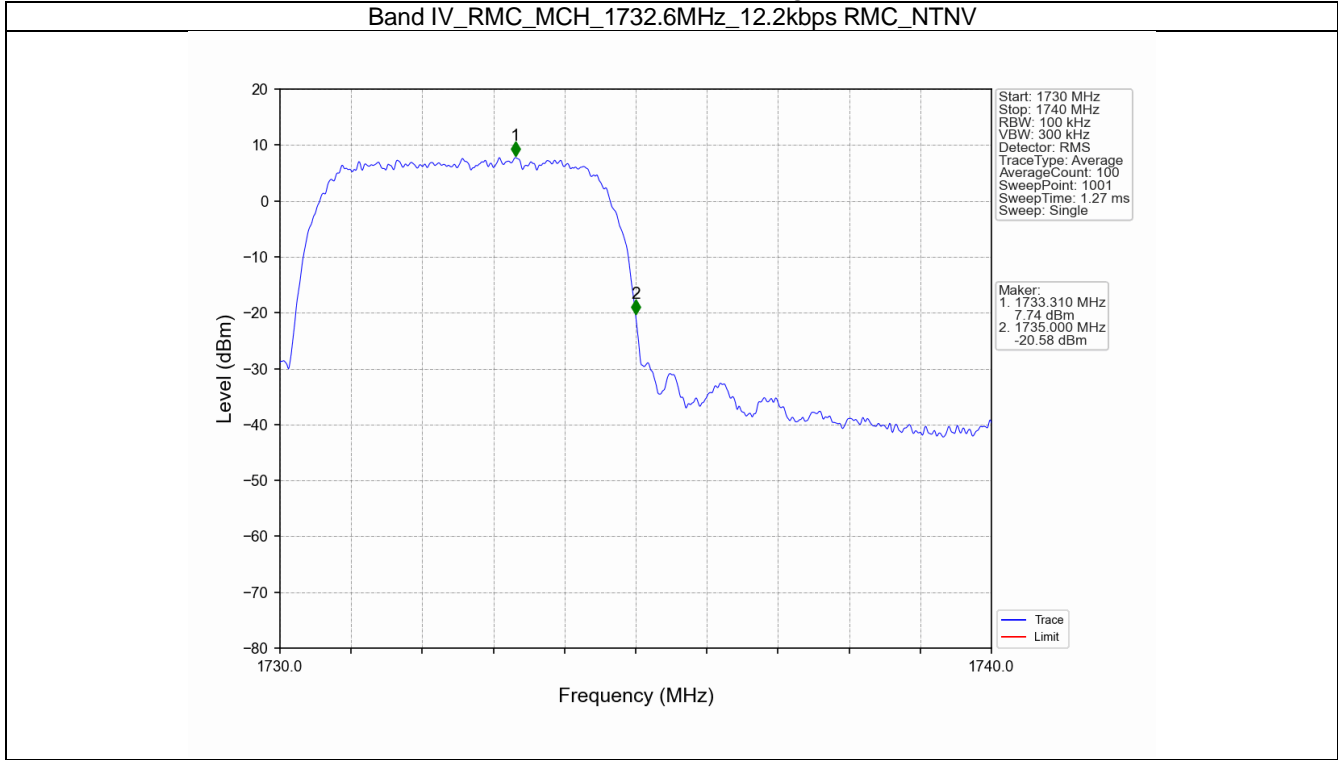
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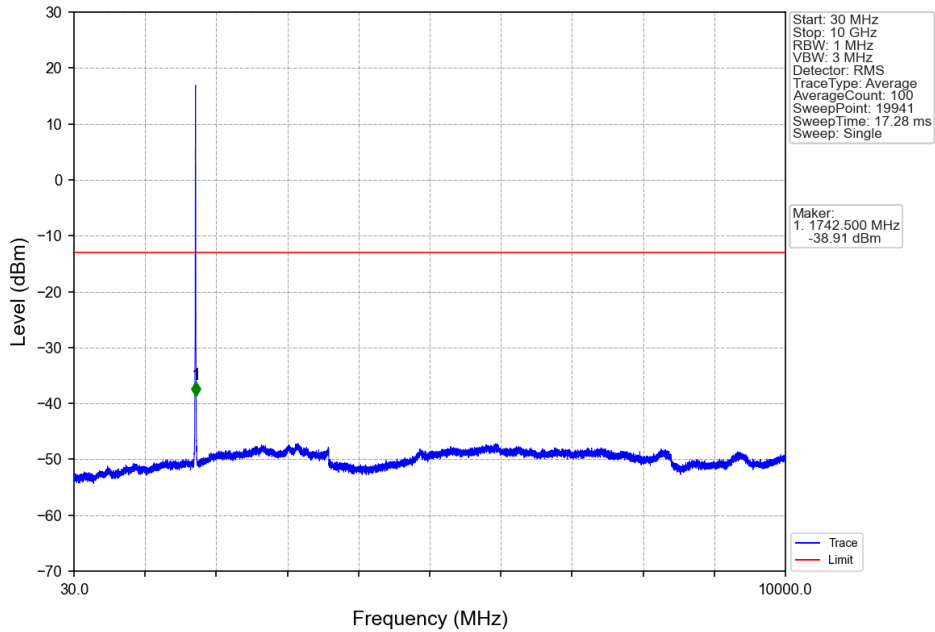
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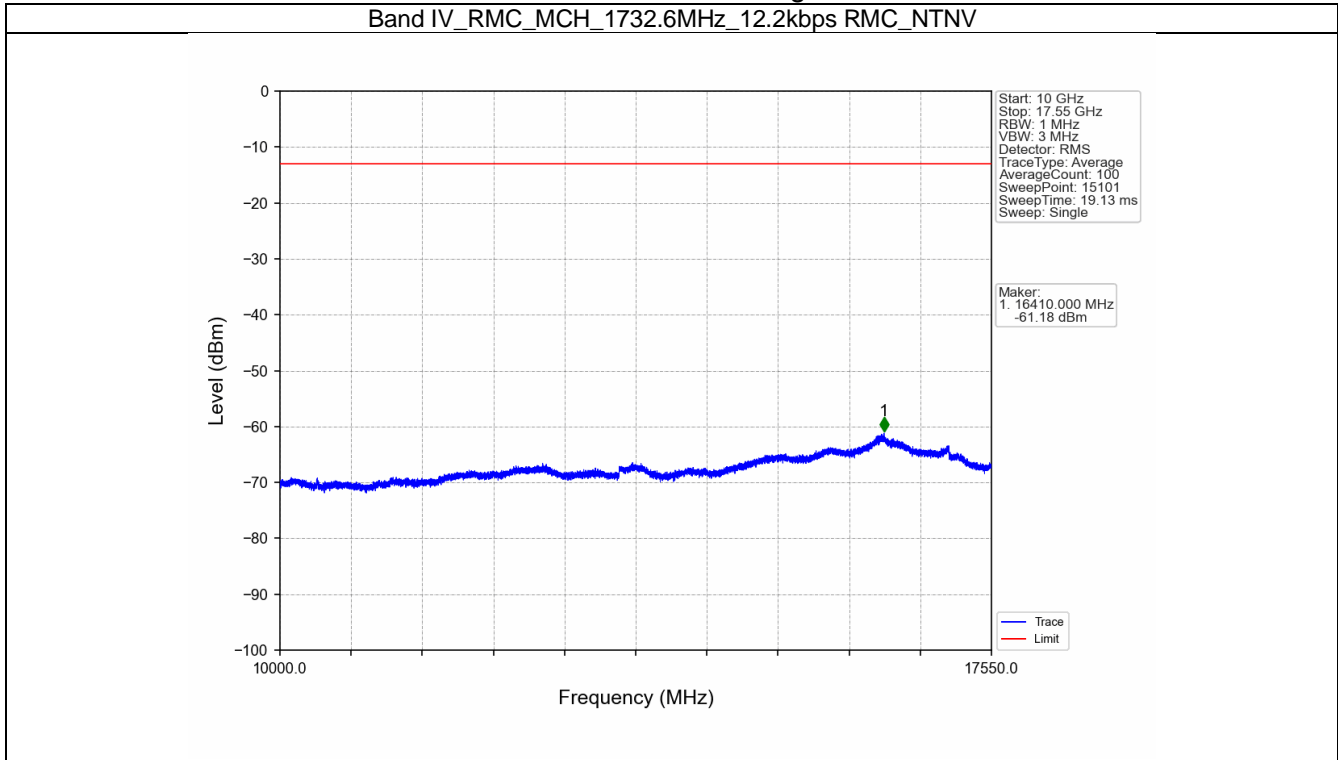
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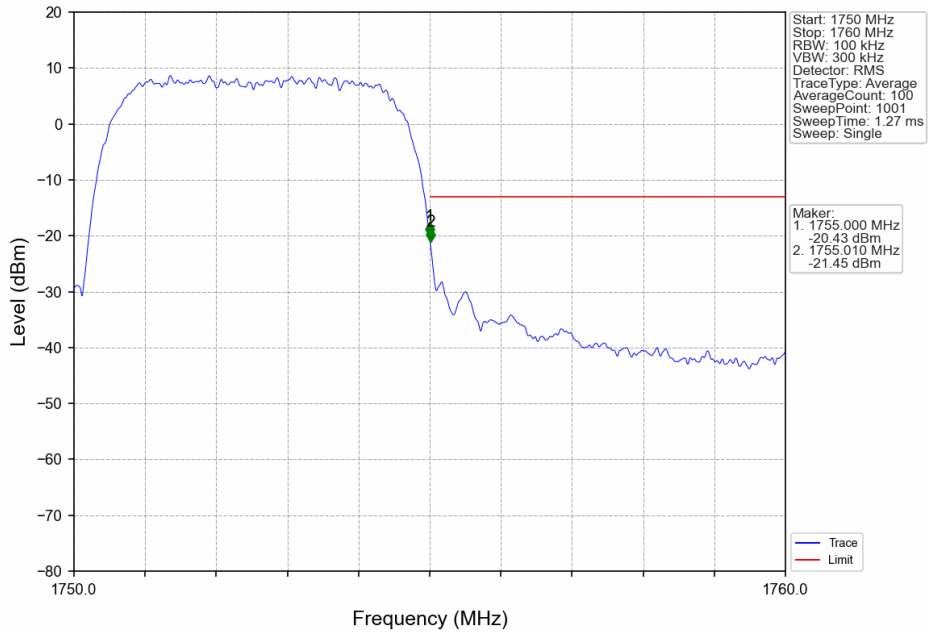
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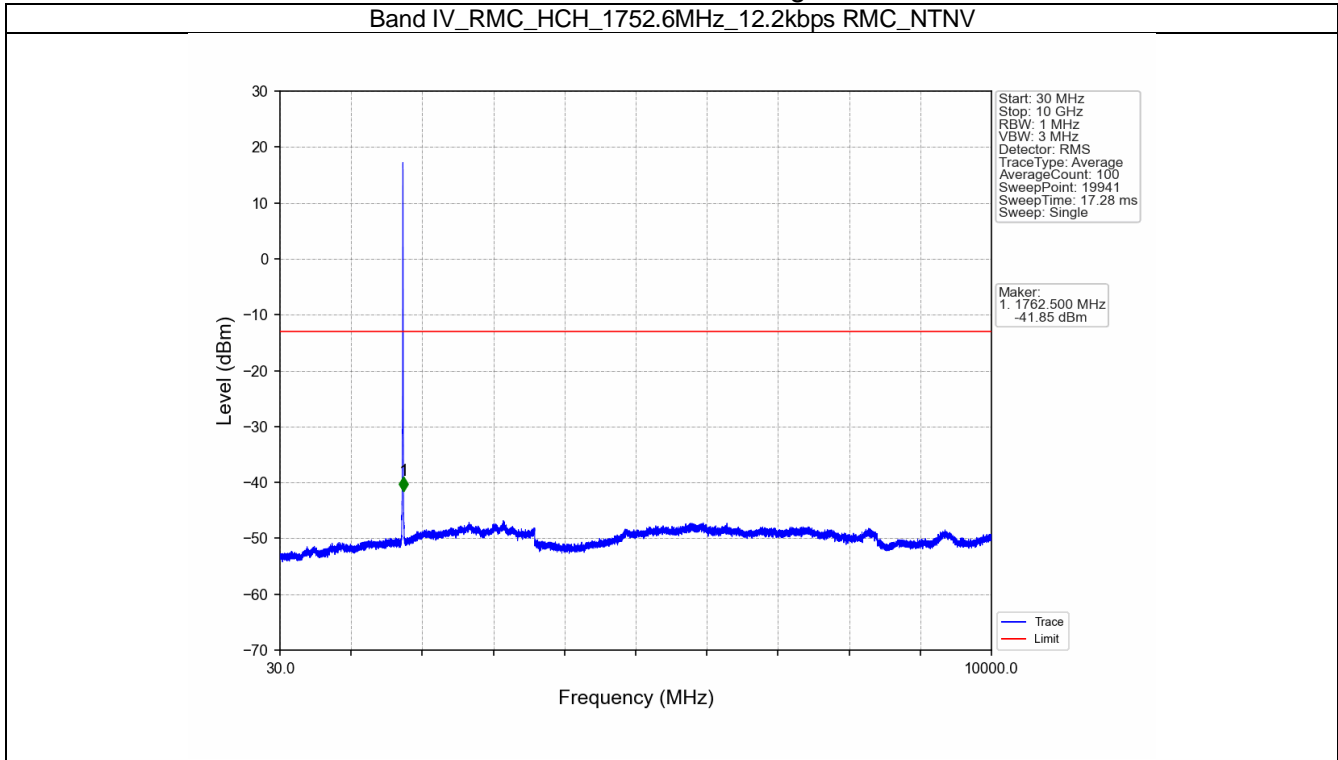
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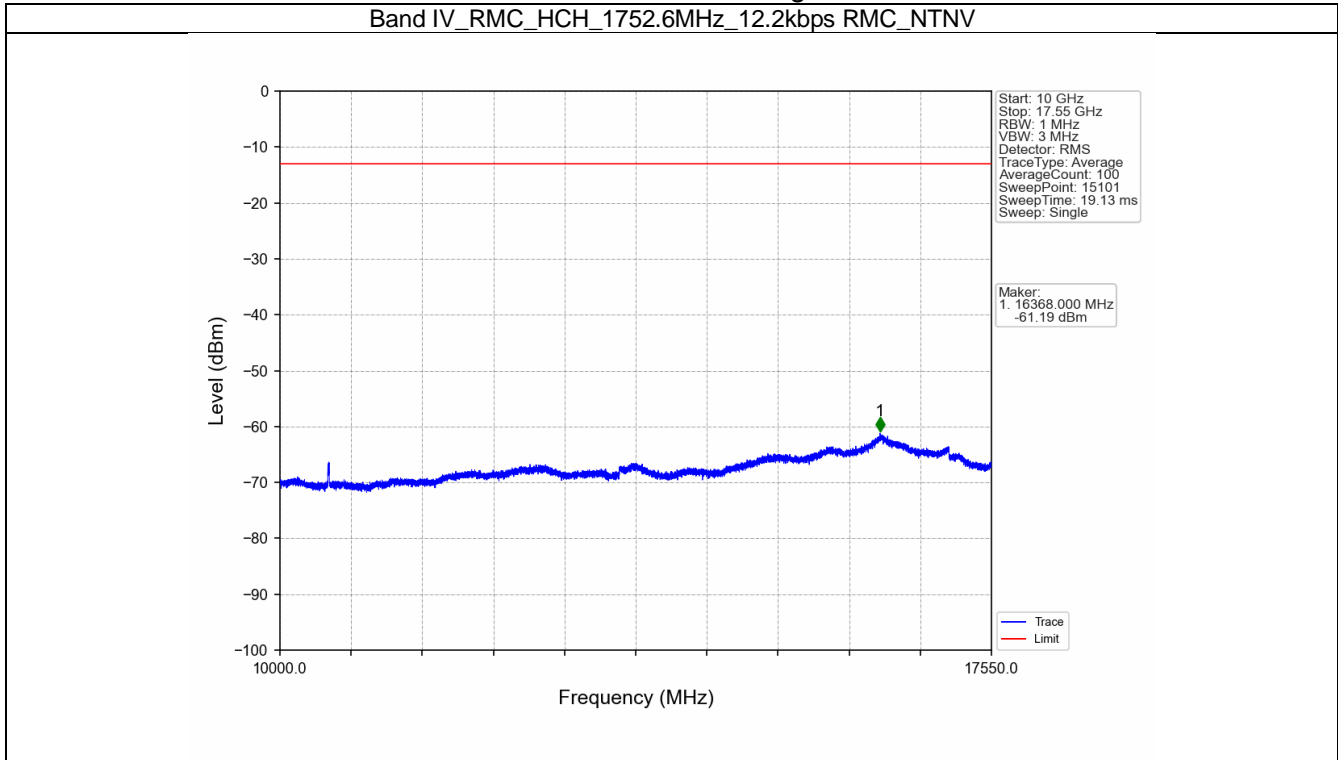
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6. Field Strength of Spurious Radiation

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

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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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