

# 1. Effective (Isotropic) Radiated Power Output Data

## 1.1 Band IV\_EIRP(ANT31)

### 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	23.47	-0.9	22.57	<=30	Pass
			1732.6	23.75	-0.9	22.85	<=30	Pass
			1752.6	23.67	-0.9	22.77	<=30	Pass

Note1: EIRP=Conducted Power+Antenna Gain

# 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	3.465	0.0020	/	Pass
			3.91	3.989	0.0023	/	Pass
			4.4	1.020	0.0006	/	Pass
		-30	3.91	1.626	0.0009	/	Pass
		-20	3.91	1.555	0.0009	/	Pass
		-10	3.91	1.946	0.0011	/	Pass
		0	3.91	3.622	0.0021	/	Pass
		10	3.91	2.063	0.0012	/	Pass
		30	3.91	2.428	0.0014	/	Pass
		40	3.91	1.572	0.0009	/	Pass
	50	3.91	1.167	0.0007	/	Pass	
	1732.6	20	3.7	1.112	0.0006	/	Pass
			3.91	1.370	0.0008	/	Pass
			4.4	0.985	0.0006	/	Pass
		-30	3.91	-0.209	-0.0001	/	Pass
		-20	3.91	1.734	0.0010	/	Pass
		-10	3.91	-0.372	-0.0002	/	Pass
		0	3.91	0.620	0.0004	/	Pass
		10	3.91	0.705	0.0004	/	Pass
		30	3.91	0.818	0.0005	/	Pass
		40	3.91	-1.495	-0.0009	/	Pass
	50	3.91	1.842	0.0011	/	Pass	
	1752.6	20	3.7	-4.145	-0.0024	/	Pass
			3.91	-1.170	-0.0007	/	Pass
			4.4	-4.841	-0.0028	/	Pass
		-30	3.91	-1.151	-0.0007	/	Pass
		-20	3.91	-3.004	-0.0017	/	Pass
		-10	3.91	-1.119	-0.0006	/	Pass
		0	3.91	-2.055	-0.0012	/	Pass
		10	3.91	-3.968	-0.0023	/	Pass
30		3.91	-1.864	-0.0011	/	Pass	
40		3.91	-3.167	-0.0018	/	Pass	

		50	3.91	-4.751	-0.0027	/	Pass
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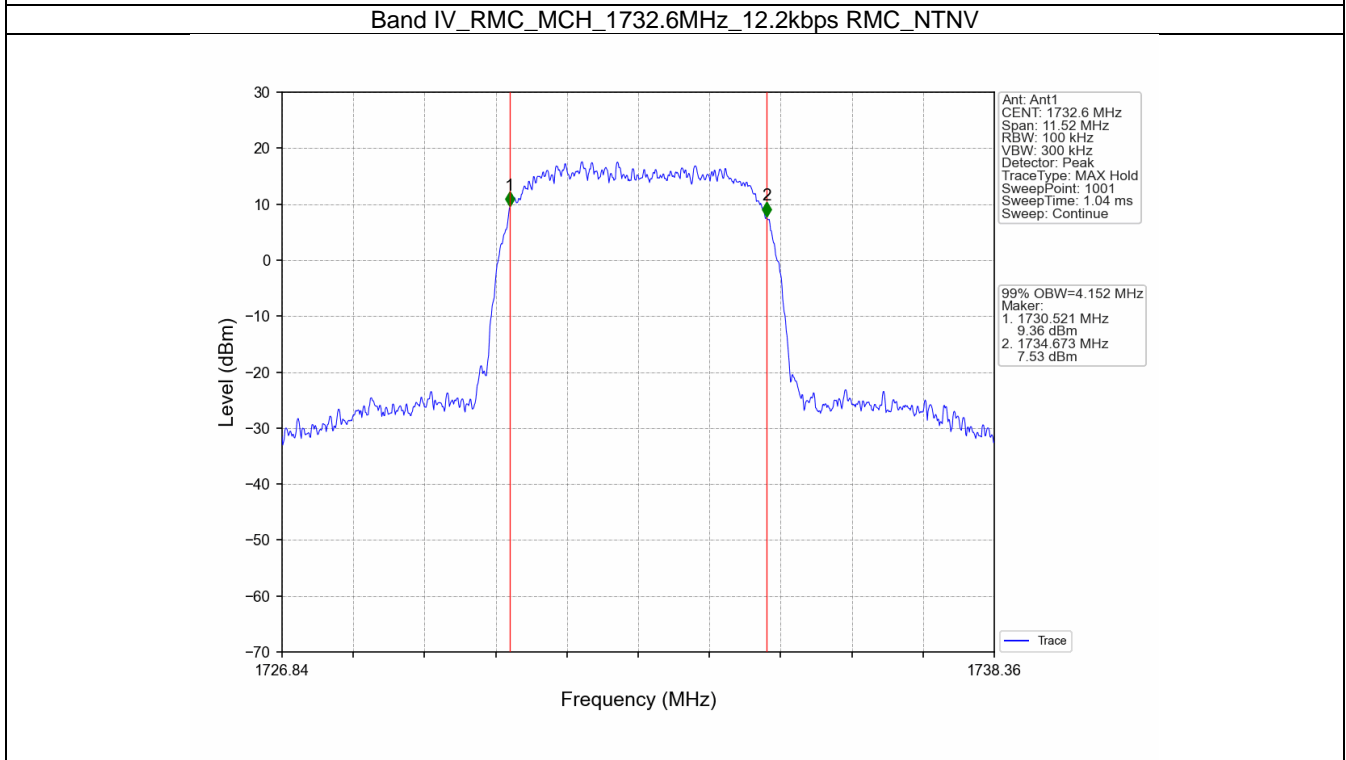
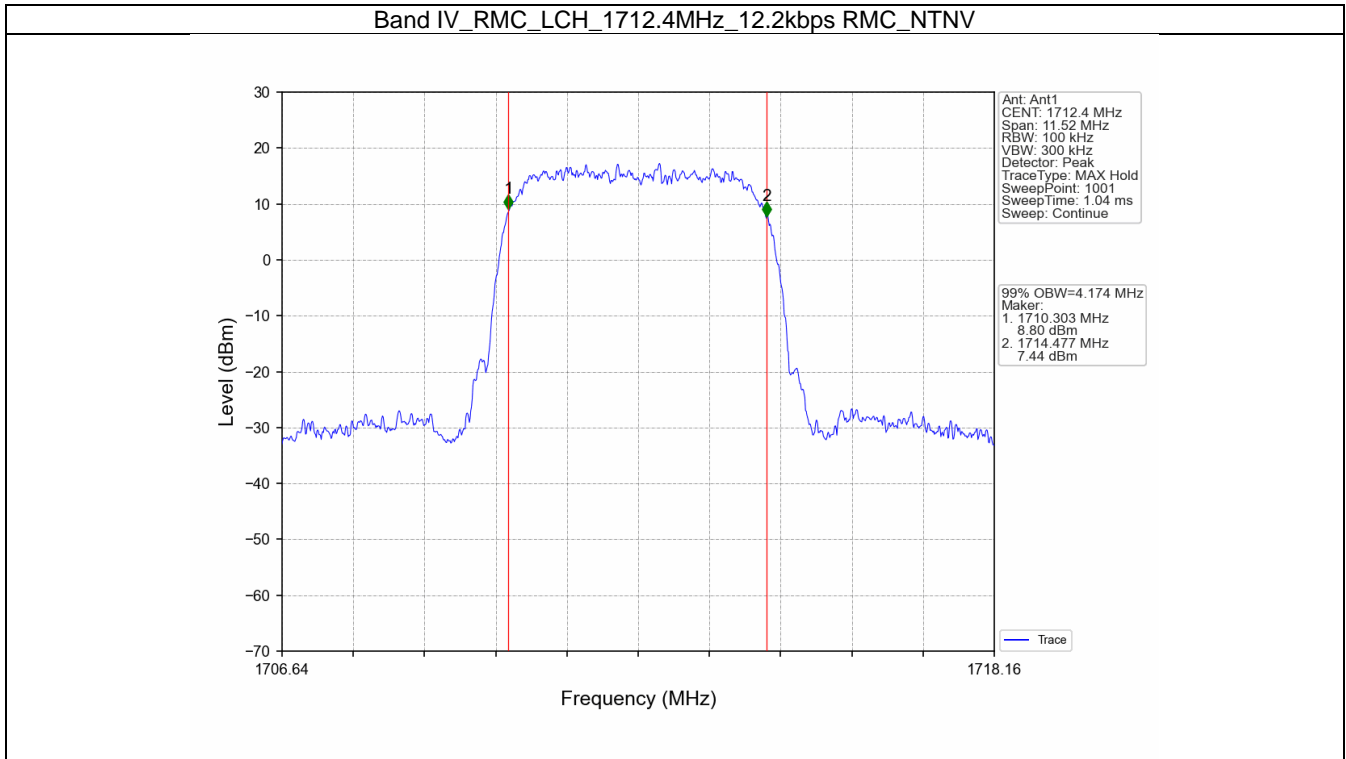
### 3. 99% & 26dB Bandwidth

#### 3.1 Band IV\_OBW

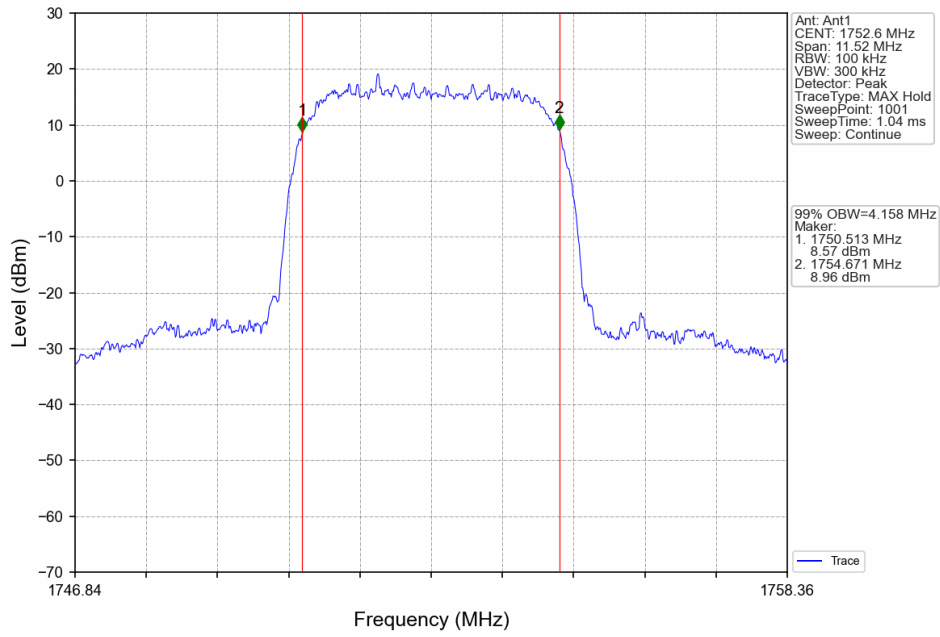
##### 3.1.1 Test Result

Band IV						
ENV	Mode		Frequency (MHz)	99% Occupied Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1712.4	4.174	/	Pass
			1732.6	4.152	/	Pass
			1752.6	4.158	/	Pass

### 3.1.2 Test Graph



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

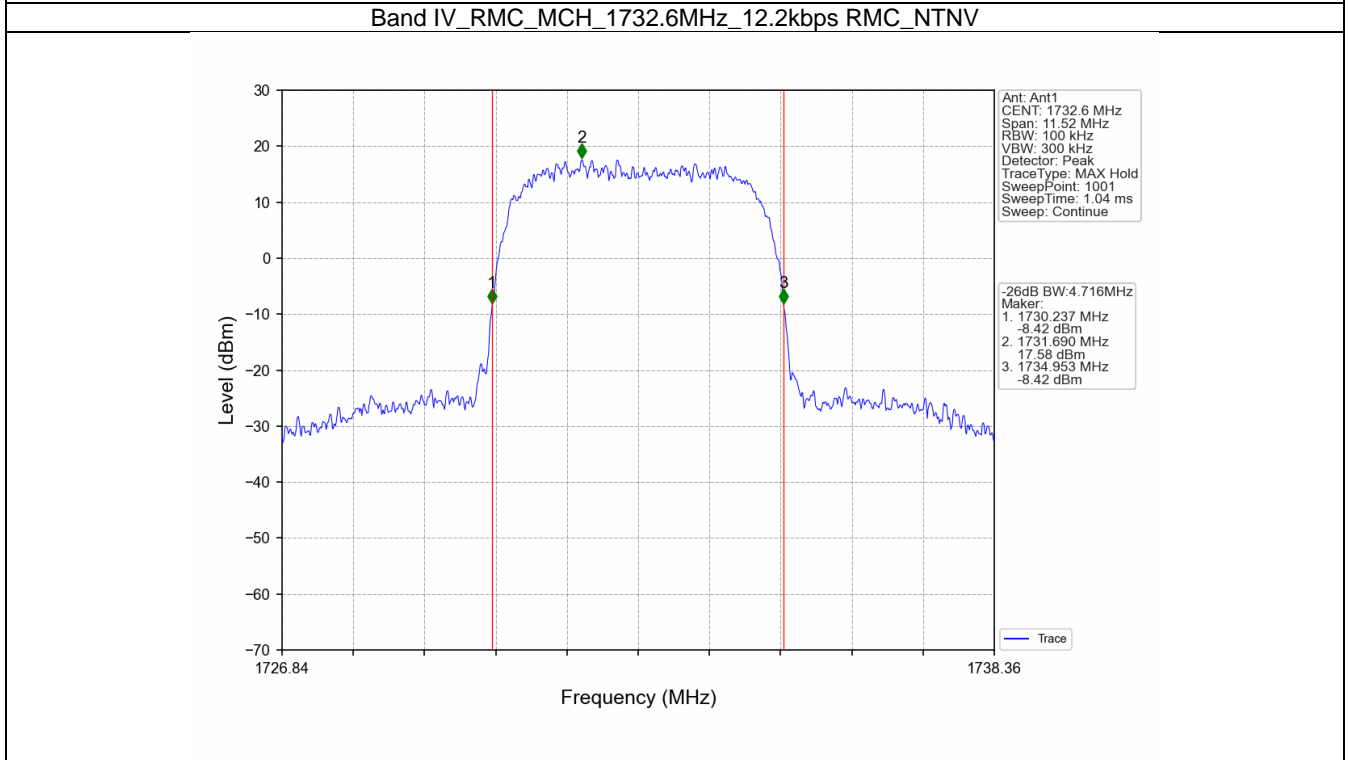
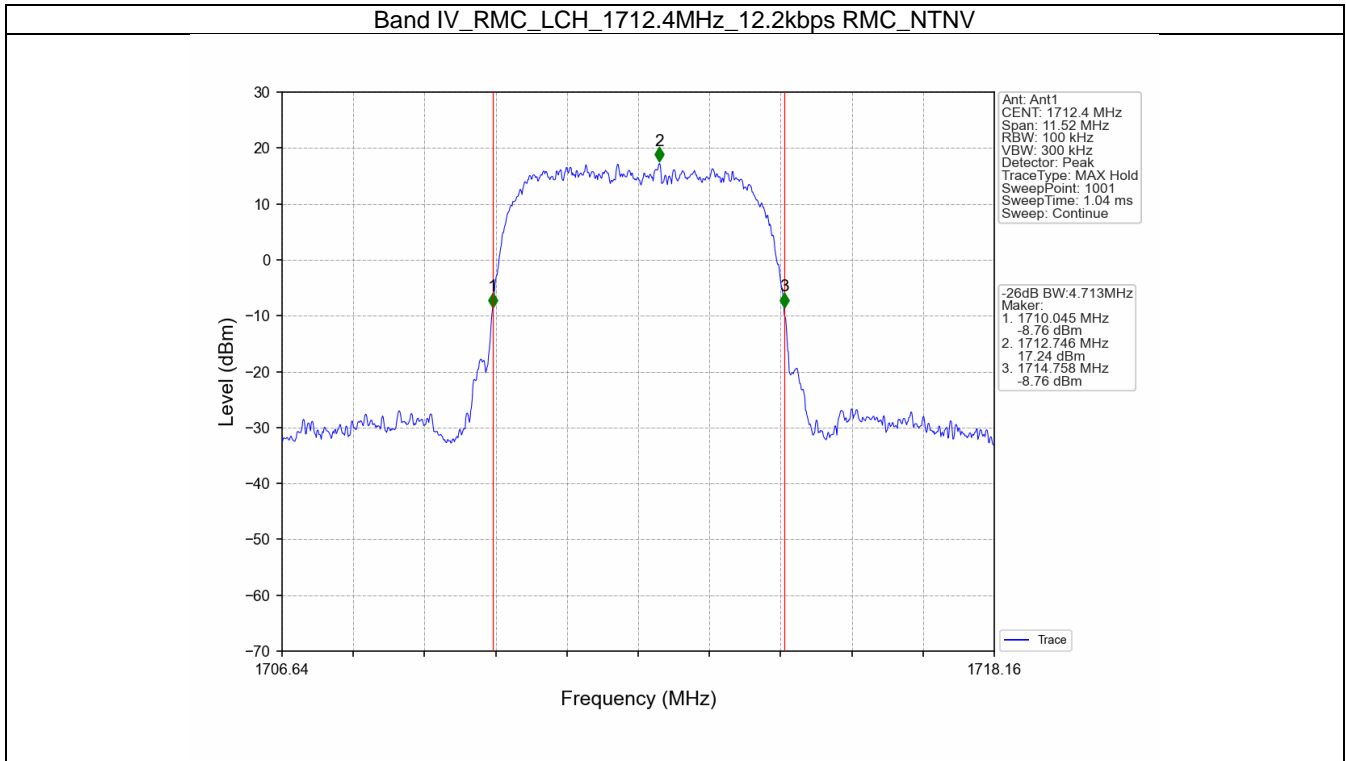


## 3.2 Band IV\_XDB

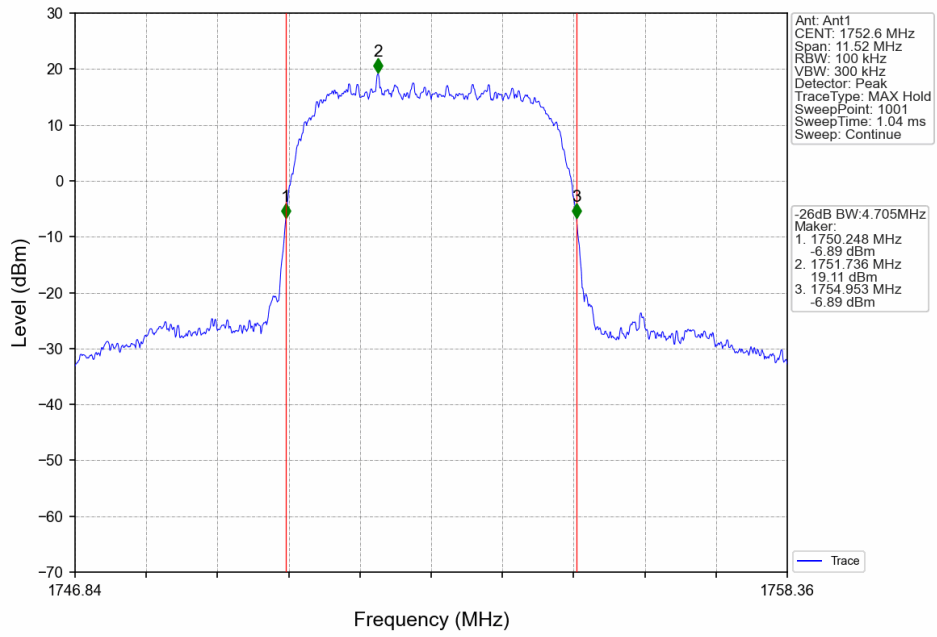
### 3.2.1 Test Result

Band IV						
ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1712.4	4.713	/	Pass
			1732.6	4.716	/	Pass
			1752.6	4.705	/	Pass

### 3.2.2 Test Graph



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



## 4. Peak-Average Ratio

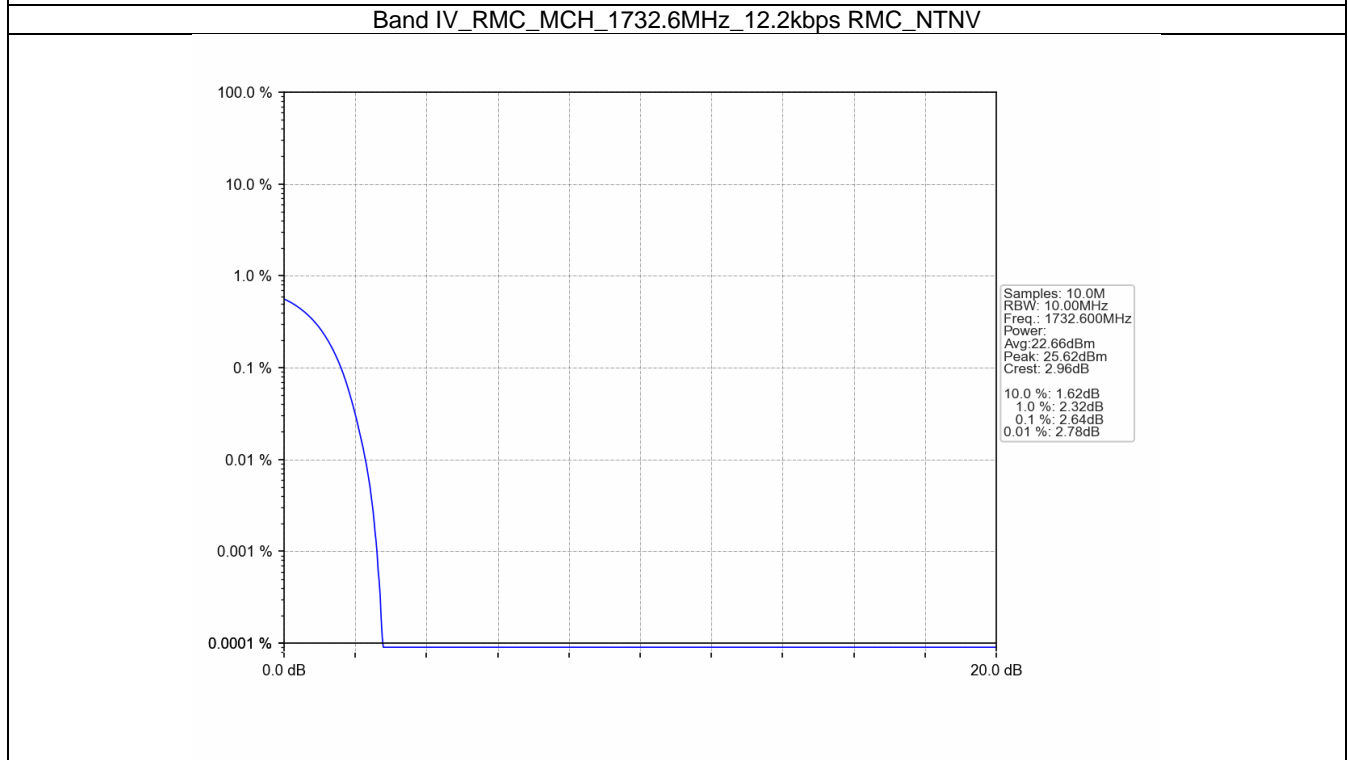
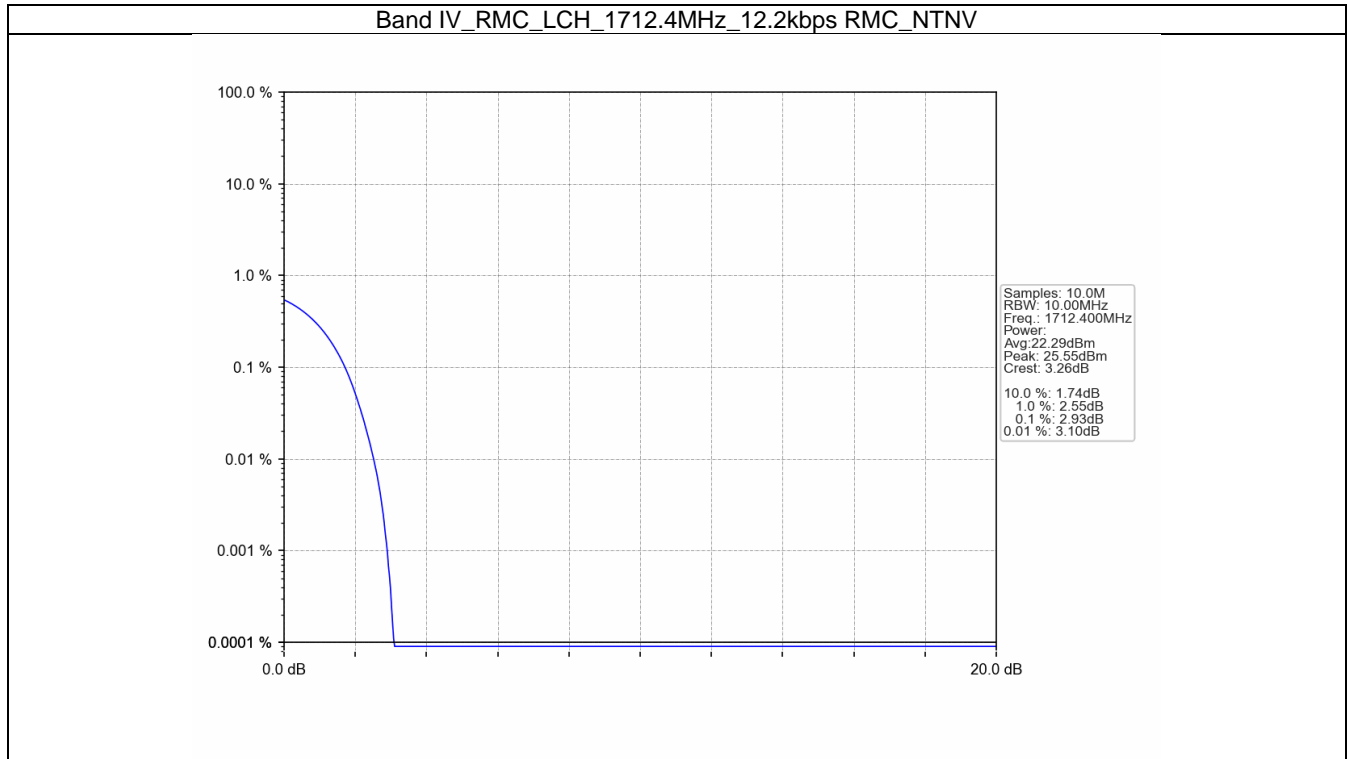
### 4.1 Band IV

#### 4.1.1 Test Result

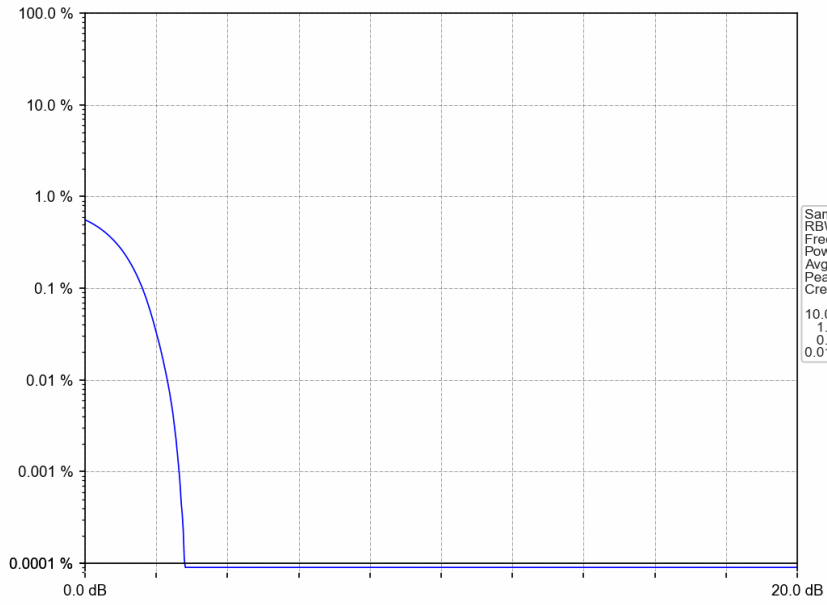
Band IV						
ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1712.4	2.93	<=13	Pass
			1732.6	2.64	<=13	Pass
			1752.6	2.67	<=13	Pass



## 4.1.2 Test Graph



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



Samples: 10.0M  
RBW: 10.00MHz  
Freq.: 1752.600MHz  
Power:  
Avg: 22.58dBm  
Peak: 25.56dBm  
Crest: 2.98dB  
10.0 %: 1.62dB  
1.0 %: 2.35dB  
0.1 %: 2.67dB  
0.01 %: 2.81dB

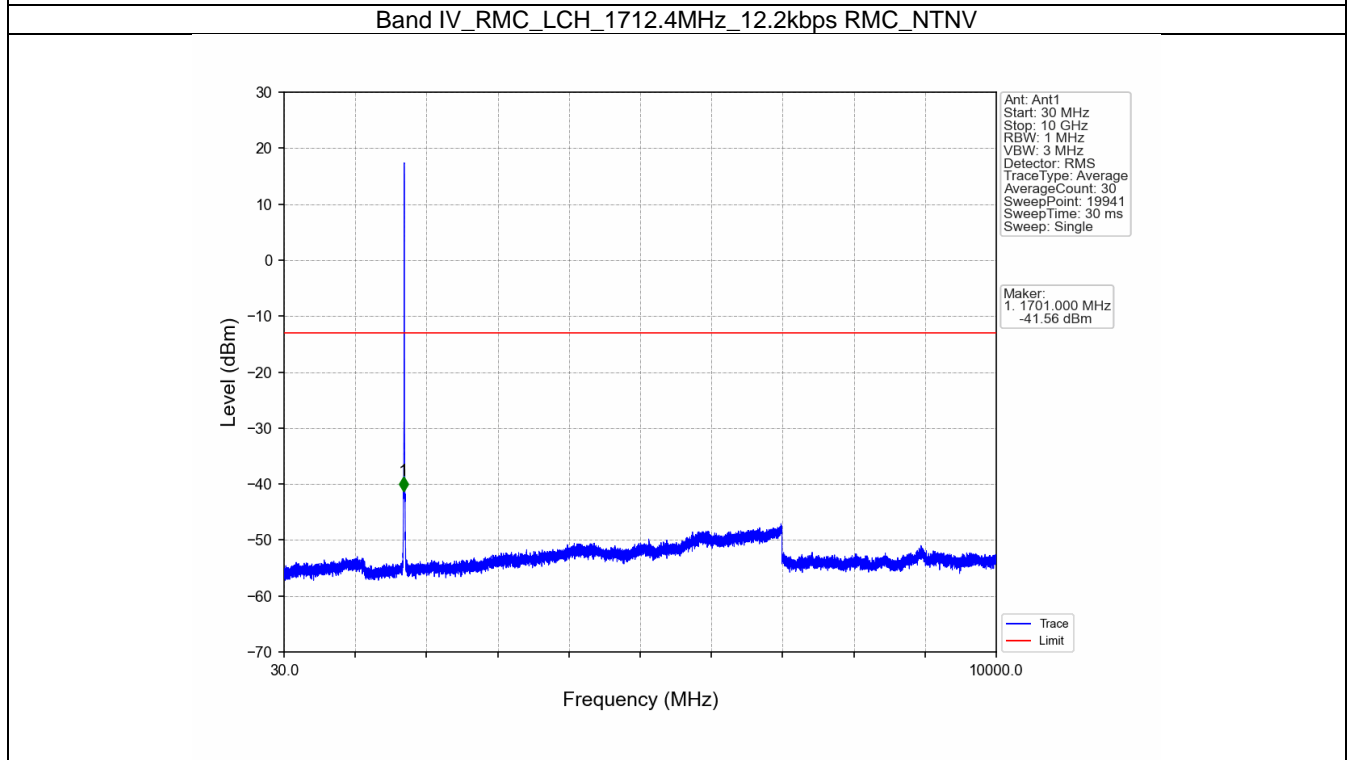
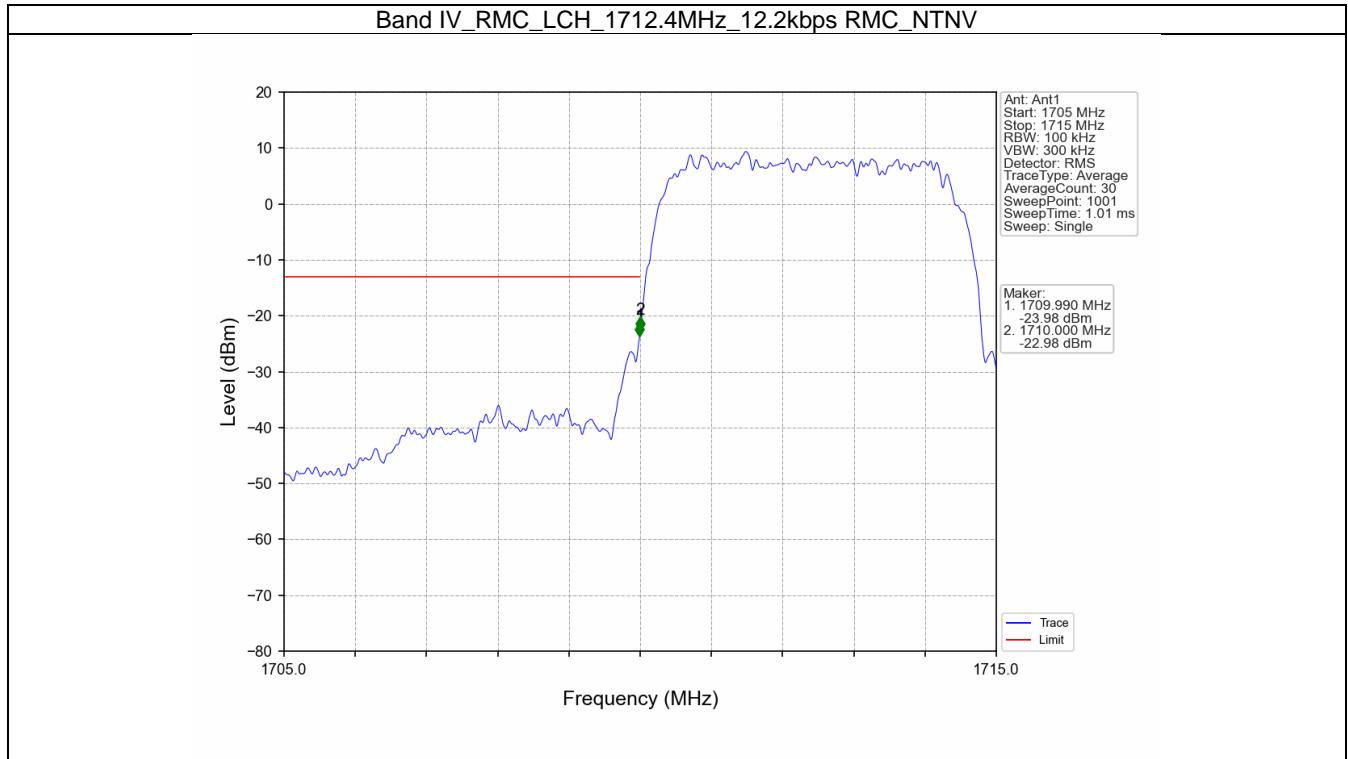
## 5. Spurious Emission & Band Edges

### 5.1 Band IV

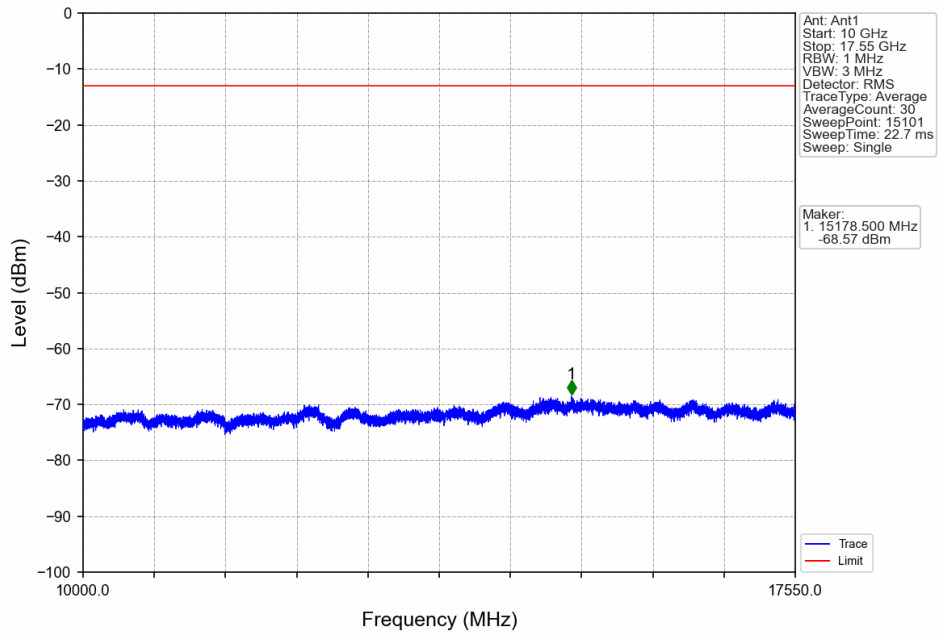
#### 5.1.1 Test Result

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	

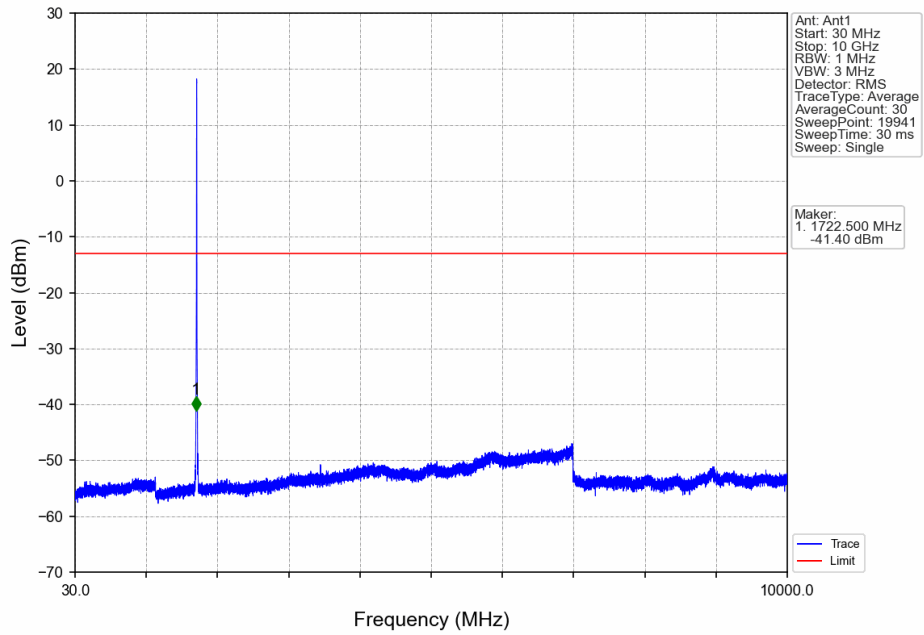
### 5.1.2 Test Graph



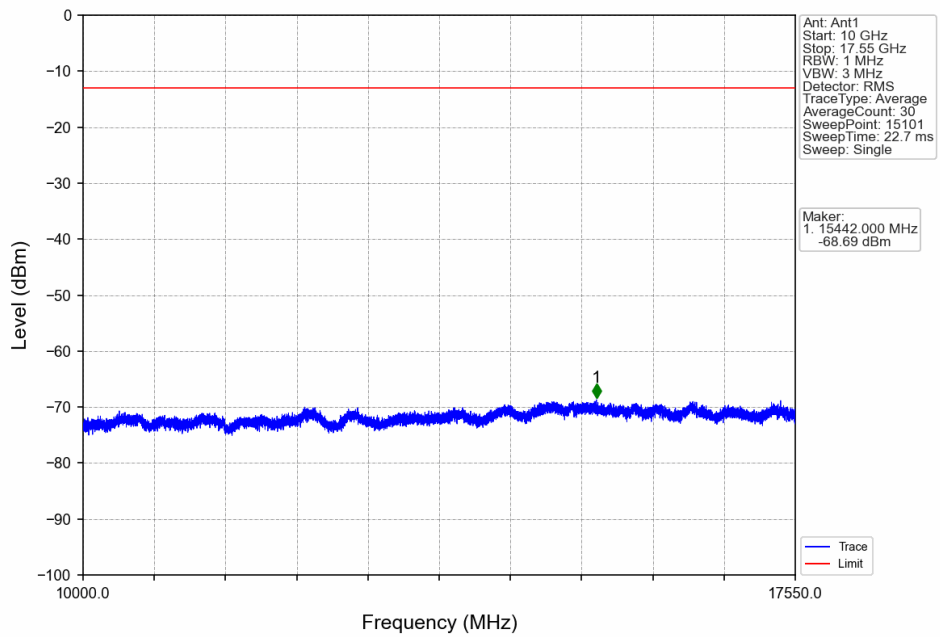
Band IV\_RMC\_LCH\_1712.4MHz\_12.2kbps RMC\_NTNV



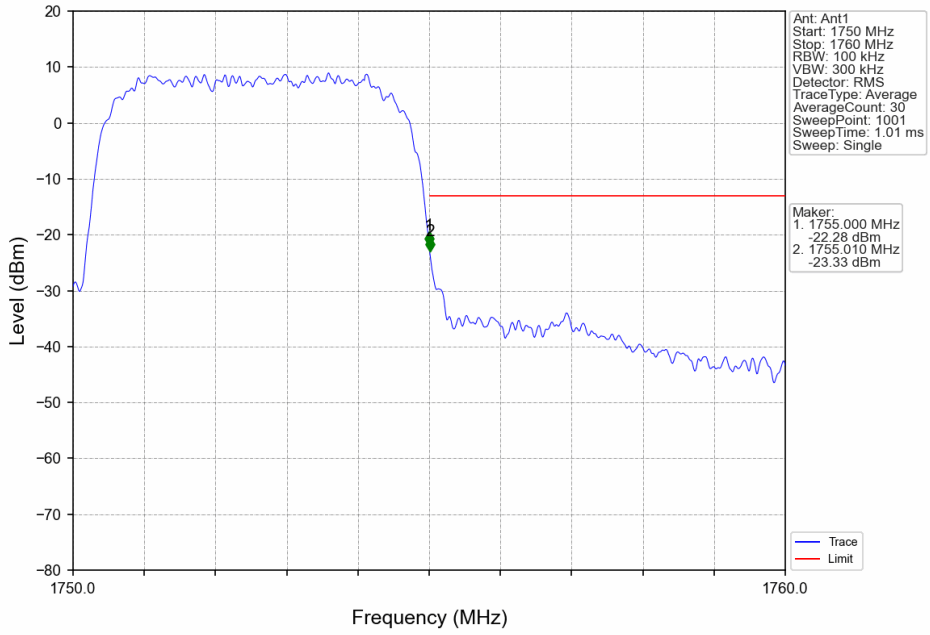
Band IV\_RMC\_MCH\_1732.6MHz\_12.2kbps RMC\_NTNV



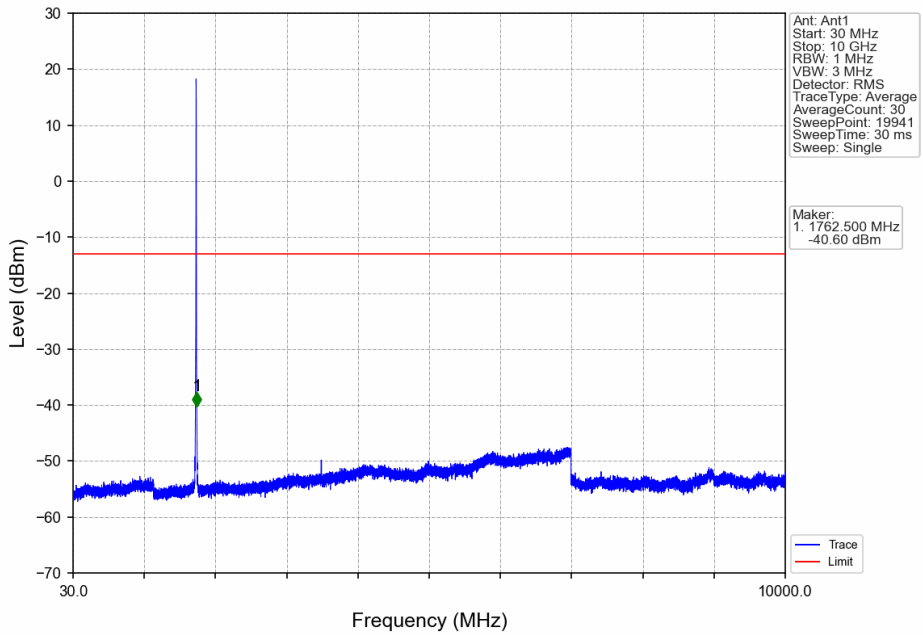
Band IV\_RMC\_MCH\_1732.6MHz\_12.2kbps RMC\_NTNV



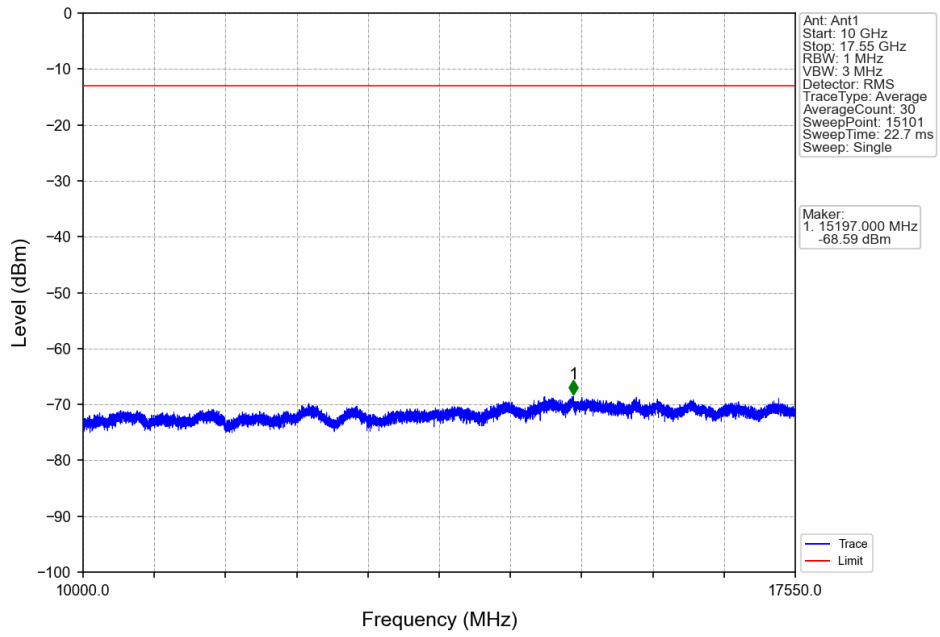
Band IV\_RMC\_HCH\_1752.6MHz\_12.2kbps RMC\_NTNV



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



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





## 6. Field Strength of Spurious Radiation

WCDMA Band IV ANT13-Low channel								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
3424.8	-66.45	-13	-53.45	-71.07	3.36	7.98	Horizontal	Pass
5137.2	-62.79	-13	-49.79	-68.41	4.61	10.23	Horizontal	Pass
6849.6	-60.81	-13	-47.81	-66.85	4.9	10.94	Horizontal	Pass
3424.8	-66.6	-13	-53.6	-71.22	3.36	7.98	Vertical	Pass
5137.2	-62.87	-13	-49.87	-68.49	4.61	10.23	Vertical	Pass
6849.6	-60.33	-13	-47.33	-66.37	4.9	10.94	Vertical	Pass

WCDMA Band IV ANT13-Middle channel								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
3465.2	-66.65	-13	-53.65	-71.35	3.38	8.08	Horizontal	Pass
5197.8	-63.03	-13	-50.03	-68.66	4.63	10.26	Horizontal	Pass
6930.4	-60.39	-13	-47.39	-66.52	4.91	11.04	Horizontal	Pass
3465.2	-66.17	-13	-53.17	-70.87	3.38	8.08	Vertical	Pass
5197.8	-62.59	-13	-49.59	-68.22	4.63	10.26	Vertical	Pass
6930.4	-60.08	-13	-47.08	-66.21	4.91	11.04	Vertical	Pass

WCDMA Band IV ANT13-High channel								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
3505.2	-66.5	-13	-53.5	-71.28	3.4	8.18	Horizontal	Pass
5257.8	-62.6	-13	-49.6	-68.25	4.65	10.3	Horizontal	Pass
7010.4	-60.31	-13	-47.31	-66.53	4.92	11.14	Horizontal	Pass
3505.2	-66.4	-13	-53.4	-71.18	3.4	8.18	Vertical	Pass
5257.8	-62.01	-13	-49.01	-67.66	4.65	10.3	Vertical	Pass
7010.4	-60.55	-13	-47.55	-66.77	4.92	11.14	Vertical	Pass

1) All antennas of RSE are tested, and only the worst data is presented.

---End of Attachment---