

Appendix for KSCR2211002212AT-LTE-Band14+5GNR-N14

1. Out of band rejection

1.1 Band14

1.1.1 Test Result

Band: 14 / NTNV							
Signal	Sweep Frequency Range (MHz)	TX Type	ANT	F0 (MHz)	FL (MHz)	FH (MHz)	Verdict
CW	738 - 788	SISO	1	763.050	757.750	768.300	Pass

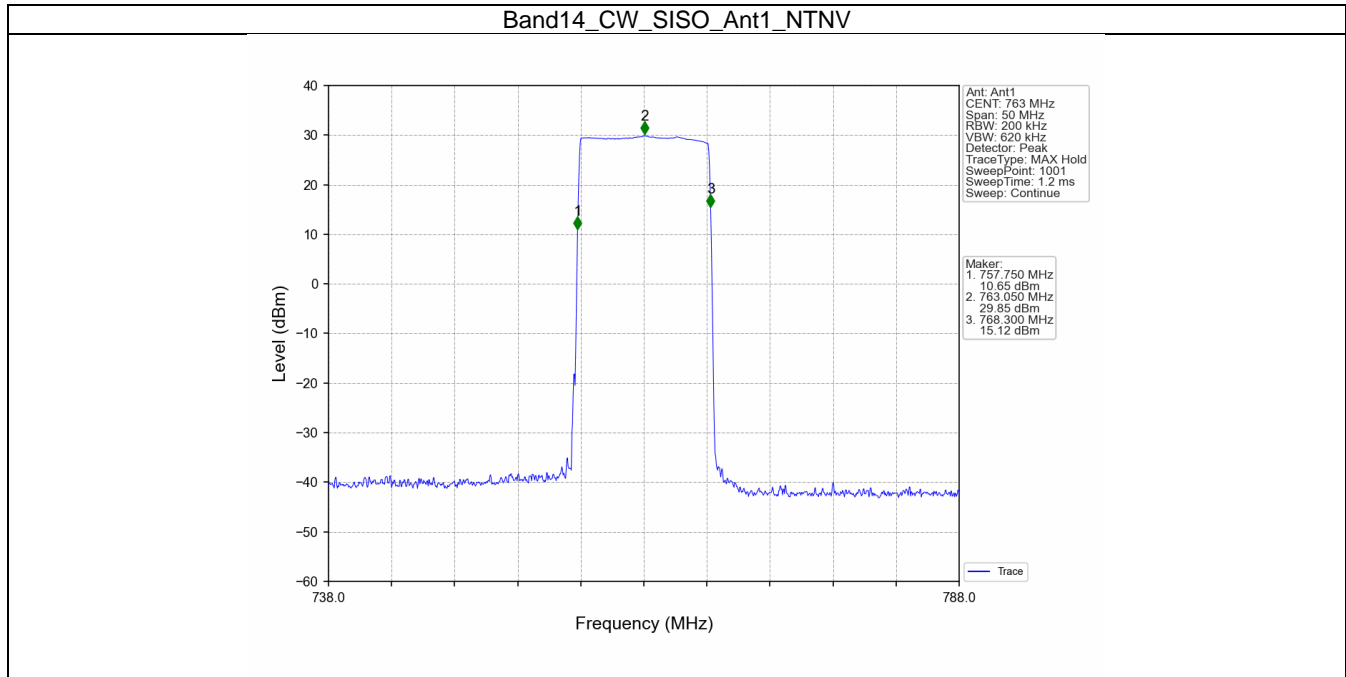


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1.1.2 Test Graph



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## 2. AGC threshold

### 2.1 Band14

#### 2.1.1 Test Result

Band: 14 / NTNV					
Signal	Frequency (MHz)	TX Type	ANT	AGC Threshold (dBm)	Verdict
AWGN	763.05	SISO	1	0.30	Pass
GMSK	763.05	SISO	1	0.30	Pass



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### 3. Input-versus-output signal comparison

#### 3.1 Band14\_OBW

##### 3.1.1 Test Result

For LTE Band 14

Band: 14 / NTN							
Type	Signal		TX Type	ANT	99% OBW (MHz)		Verdict
	Level (dBm)	Frequency (MHz)			Output	Input	
AWGN	0.3	763.05	SISO	1	4.542	4.532	Pass
	3.3	763.05	SISO	1	4.540	4.541	Pass
GMSK	0.3	763.05	SISO	1	0.246	0.243	Pass
	3.3	763.05	SISO	1	0.245	0.245	Pass

For 5G NR N14

N14 / NTN							
Type	Signal		TX Type	ANT	99% OBW (MHz)		Verdict
	Level (dBm)	Frequency (MHz)			Output	Input	
AWGN	0.3	763	SISO	1	9.3492	9.3316	Pass
	3.3	763	SISO	1	9.3734	9.3560	Pass

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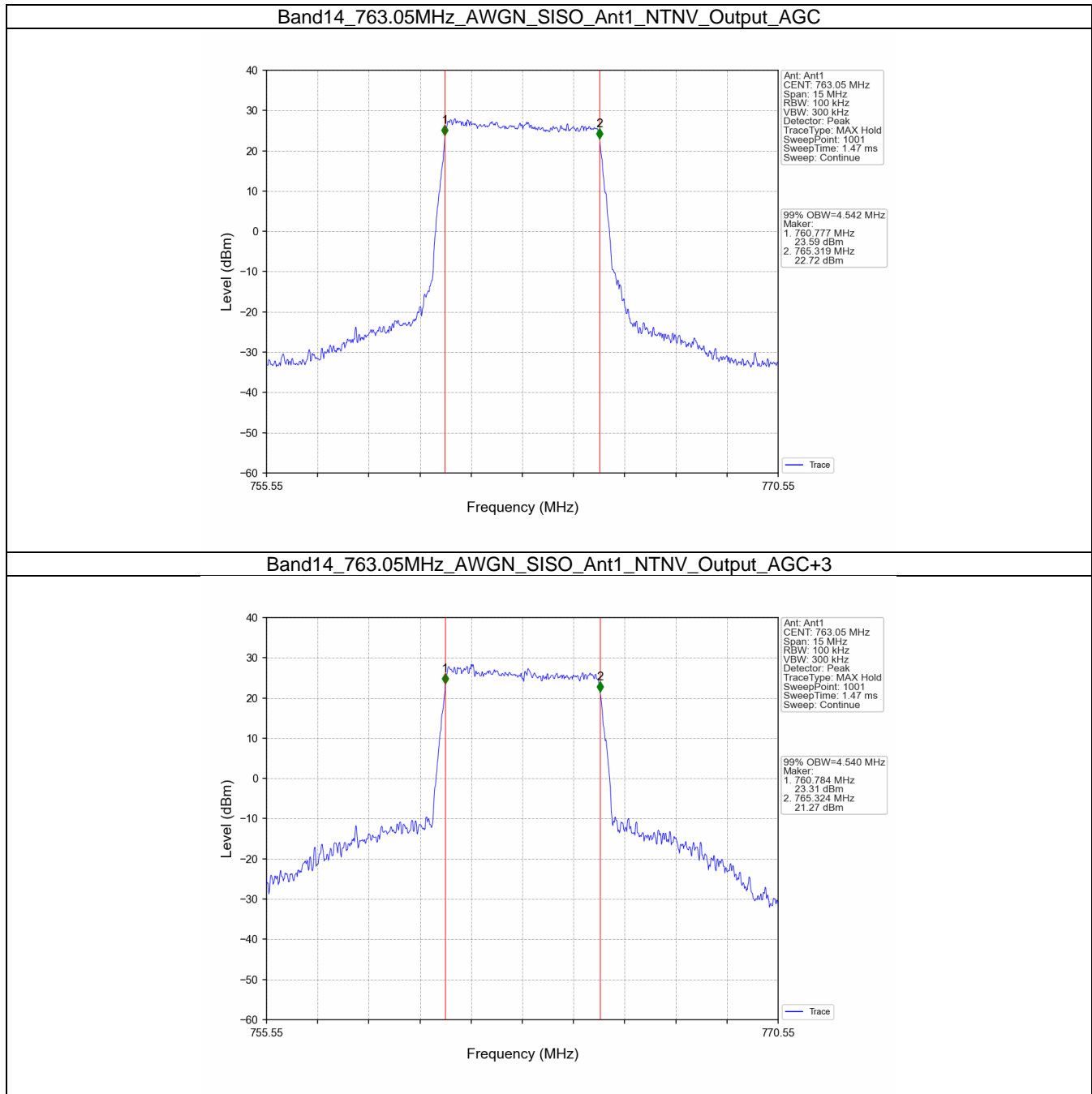
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3.1.2 Test Graph

For LTE Band 14

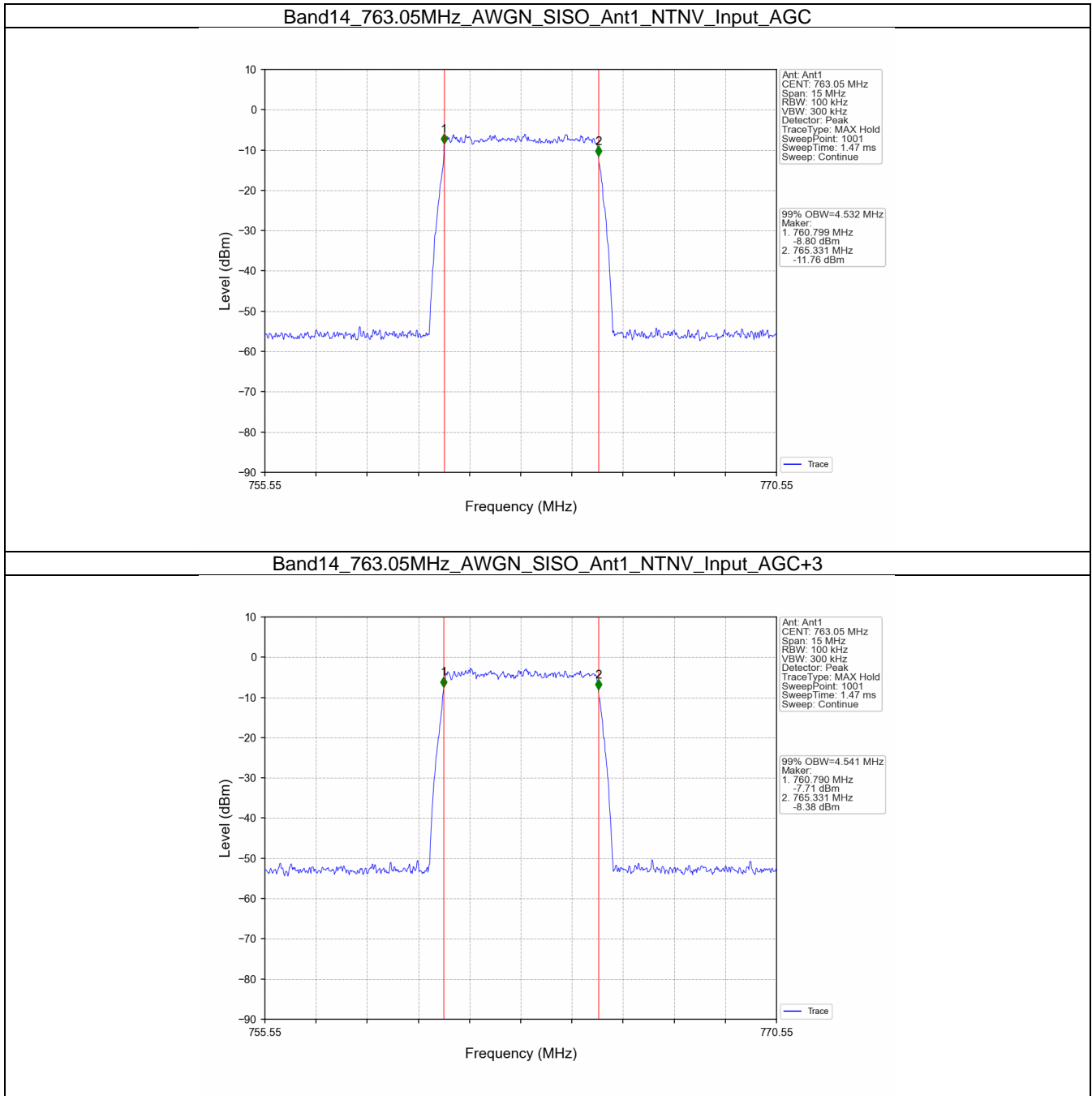


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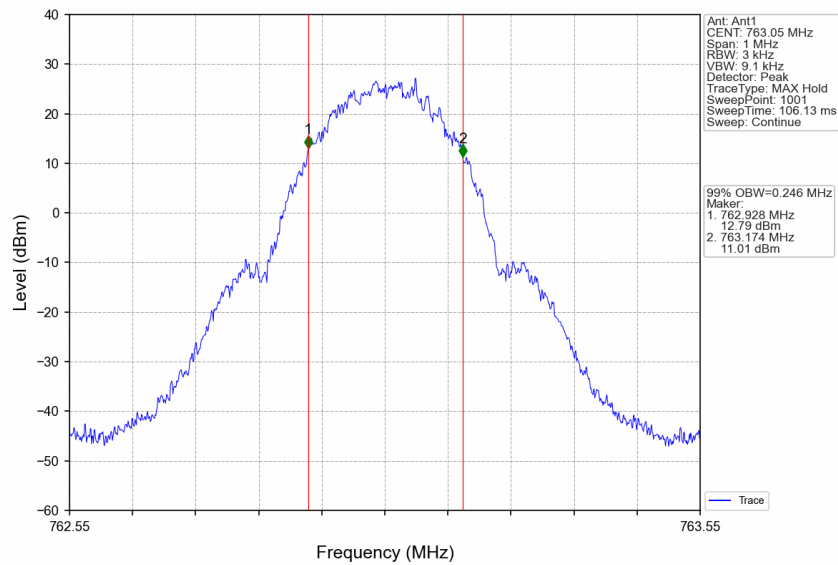
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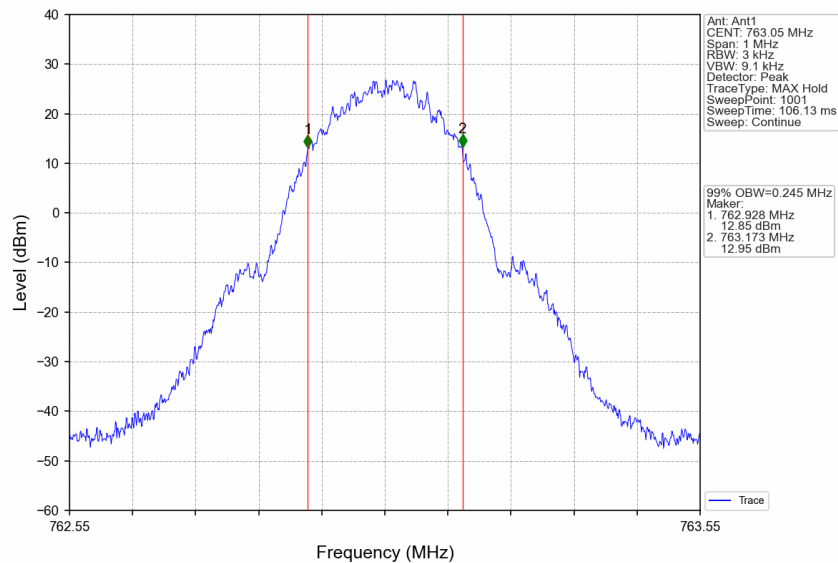
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Band14\_763.05MHz\_GMSK\_SISO\_Ant1\_NTNV\_Output\_AGC



Band14\_763.05MHz\_GMSK\_SISO\_Ant1\_NTNV\_Output\_AGC+3



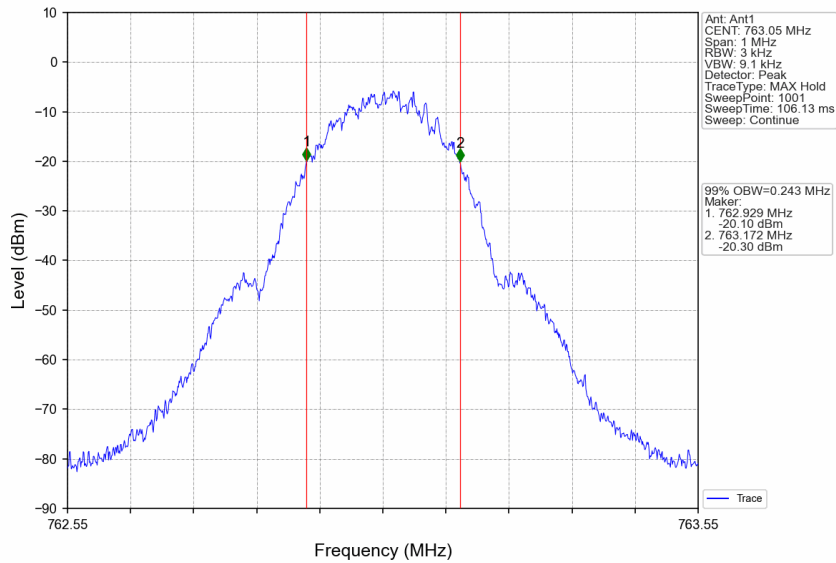
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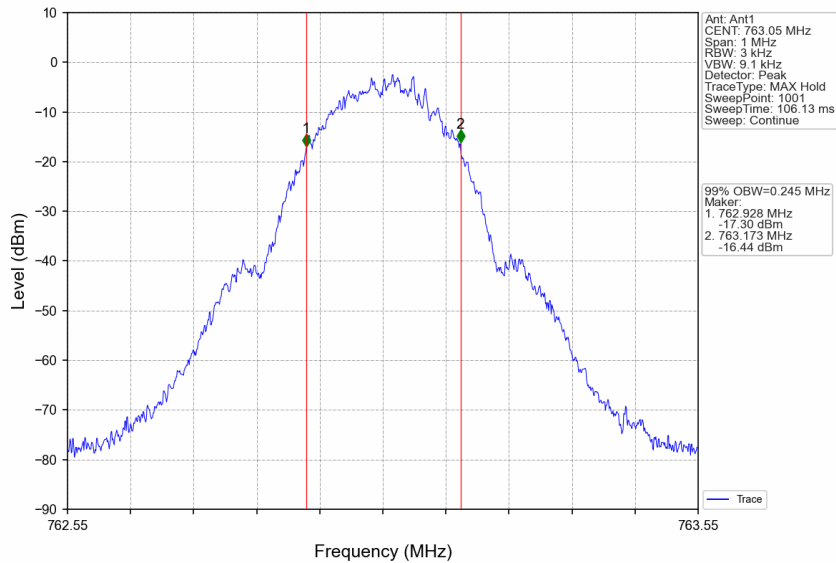
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Band14\_763.05MHz\_GMSK\_SISO\_Ant1\_NTNV\_Input\_AGC



Band14\_763.05MHz\_GMSK\_SISO\_Ant1\_NTNV\_Input\_AGC+3



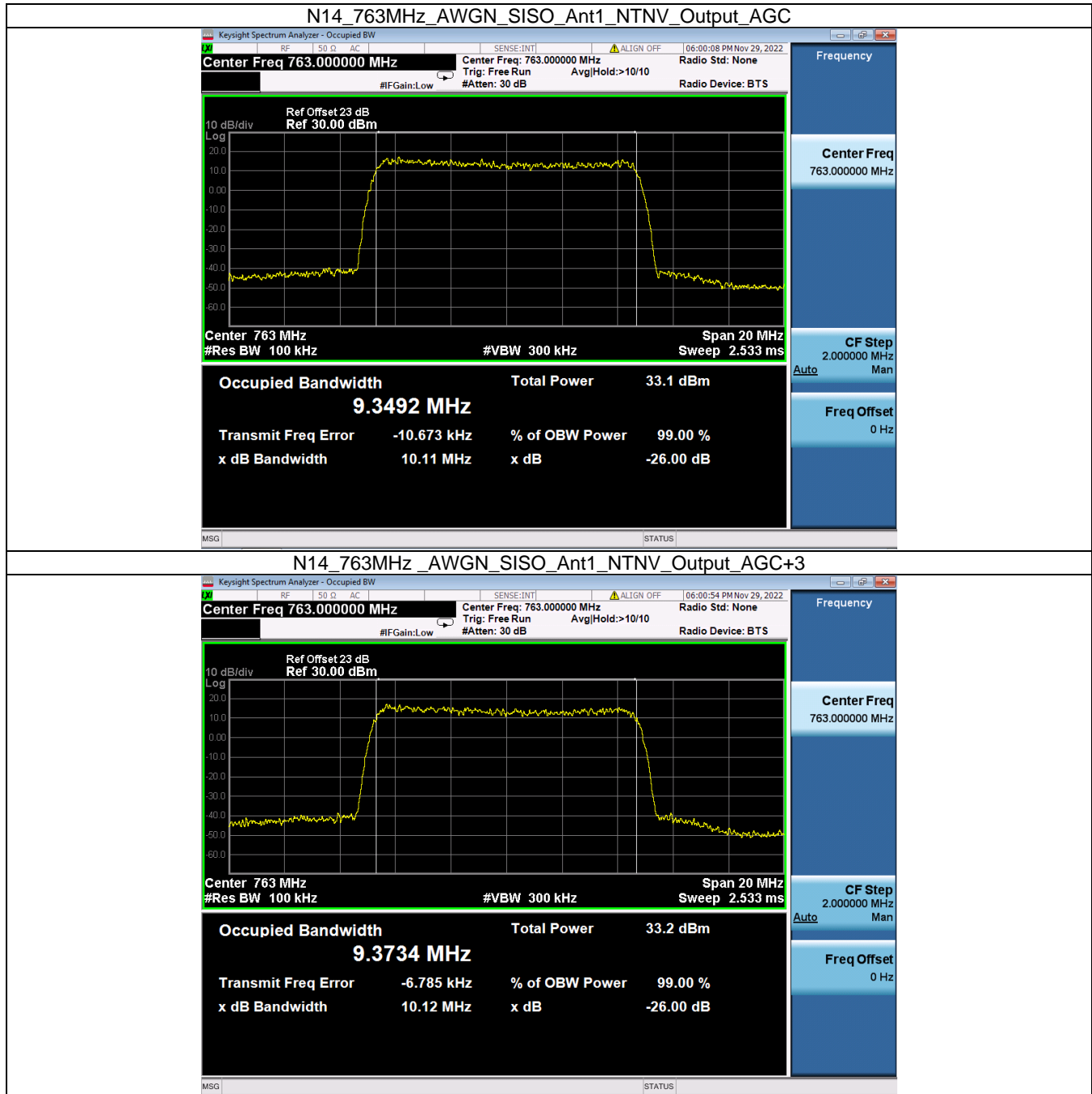
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For 5G NR N14



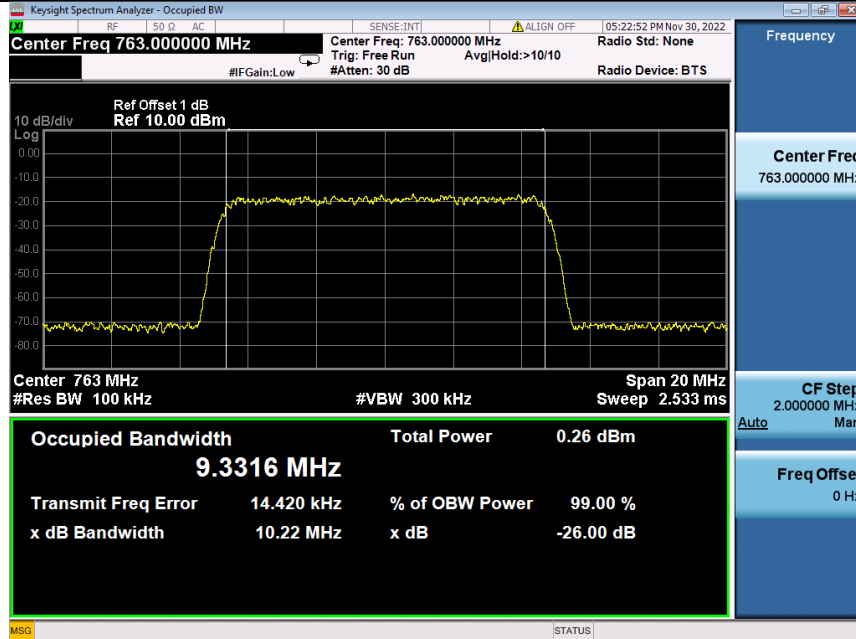
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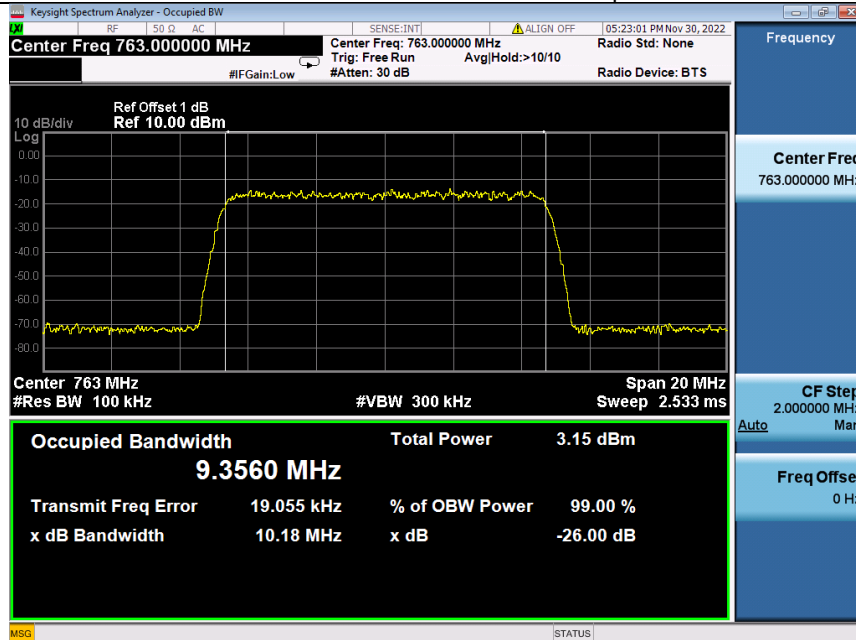
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## N14\_763MHz AWGN\_SISO\_Ant1\_NTNV\_Input\_AGC



## N14\_763MHz AWGN\_SISO\_Ant1\_NTNV\_Input\_AGC+3



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3.2 Band14\_EBW

3.2.1 Test Result

For LTE Band 14

Band: 14 / NTNV							
Type	Signal		TX Type	ANT	26dB EBW (MHz)		Verdict
	Level (dBm)	Frequency (MHz)			Output	Input	
AWGN	0.3	763.05	SISO	1	5.049	5.060	Pass
	3.3	763.05	SISO	1	5.053	5.053	Pass
GMSK	0.3	763.05	SISO	1	0.314	0.313	Pass
	3.3	763.05	SISO	1	0.312	0.313	Pass

For 5G NR N14

N14 / NTNV							
Type	Signal		TX Type	ANT	26dB EBW (MHz)		Verdict
	Level (dBm)	Frequency (MHz)			Output	Input	
AWGN	0.3	763	SISO	1	10.11	10.22	Pass
	3.3	763	SISO	1	10.12	10.18	Pass



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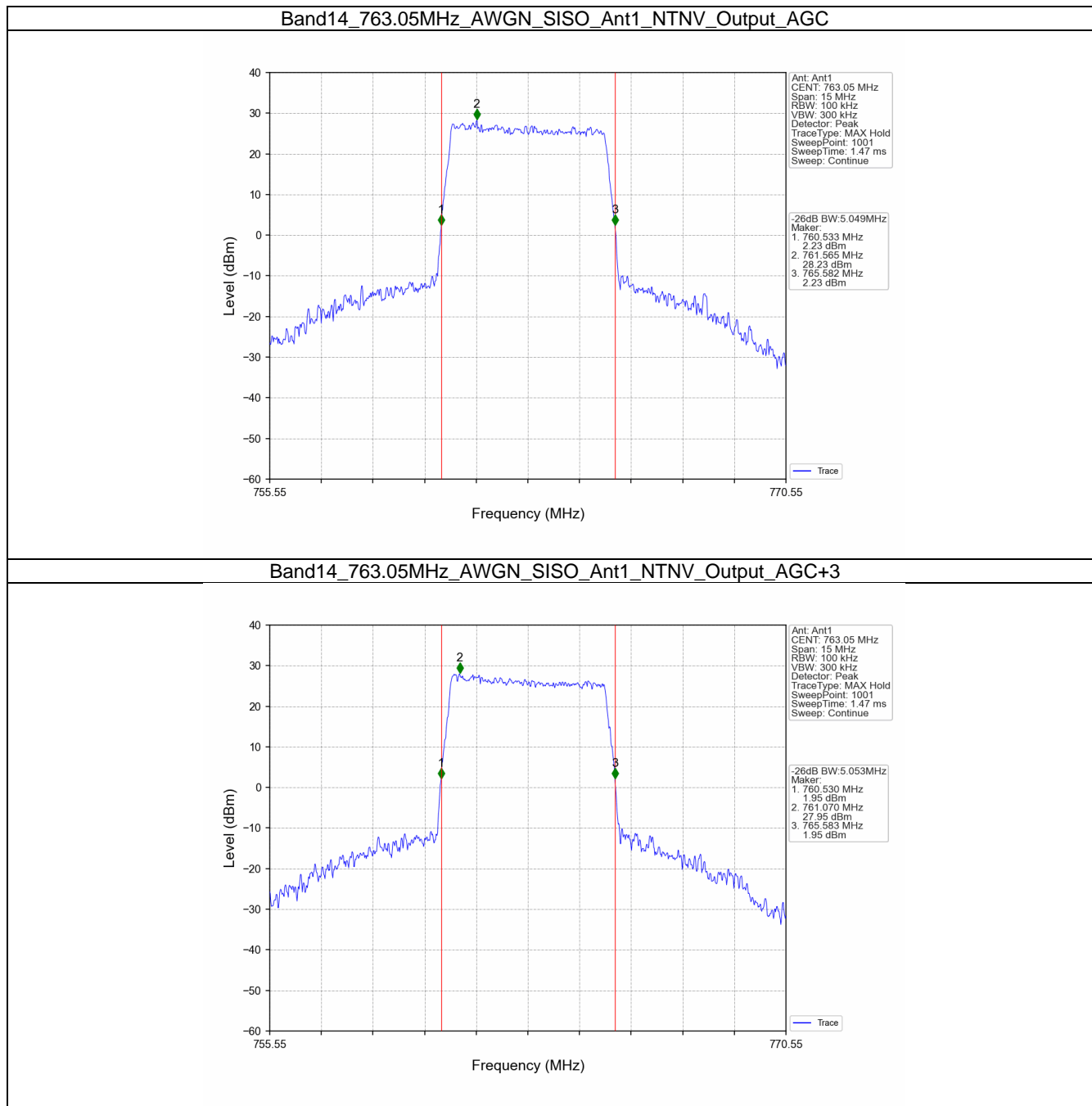
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### 3.2.2 Test Graph

For LTE Band 14

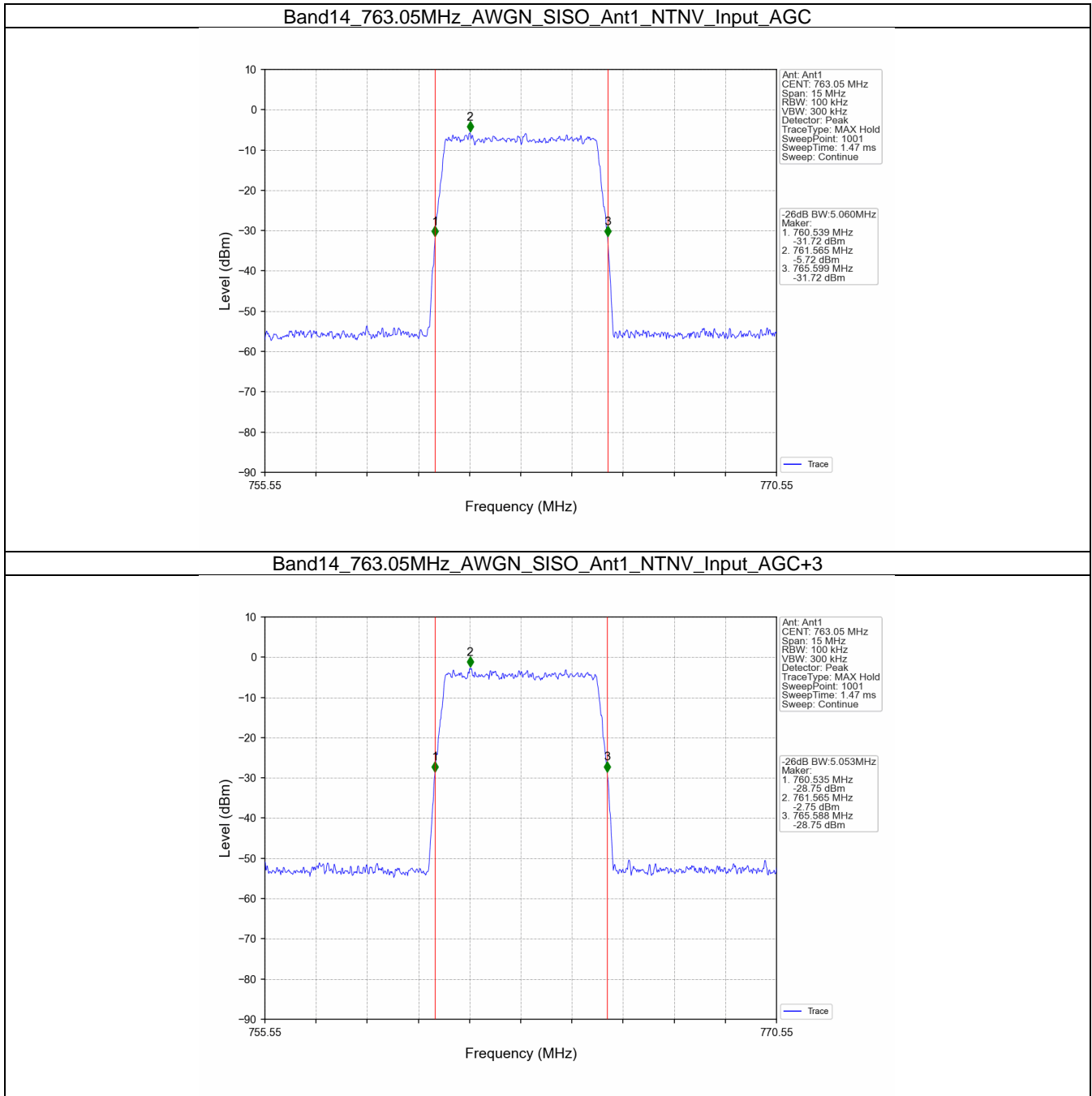


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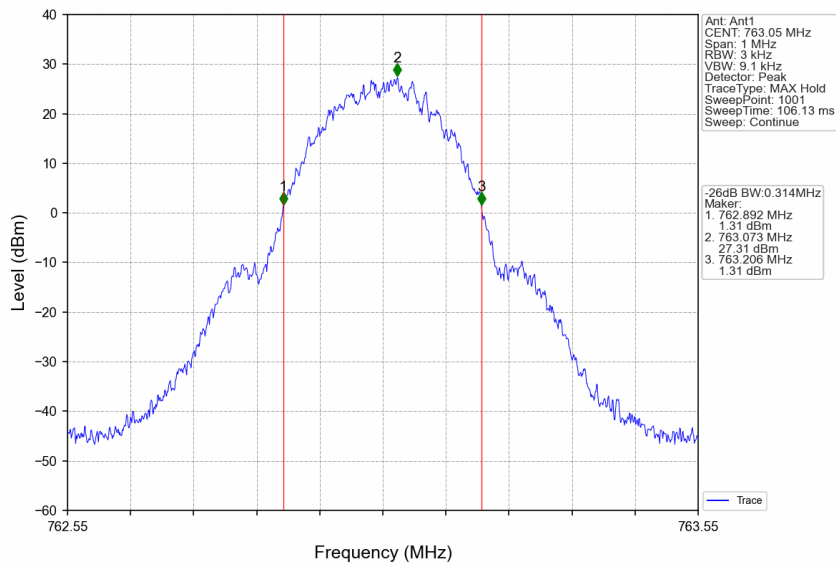
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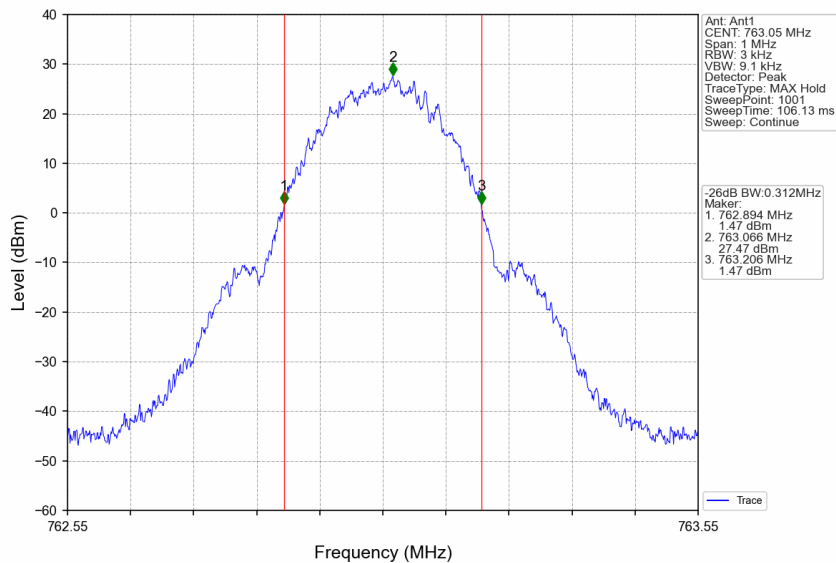
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Band14\_763.05MHz\_GMSK\_SISO\_Ant1\_NTNV\_Output\_AGC+3



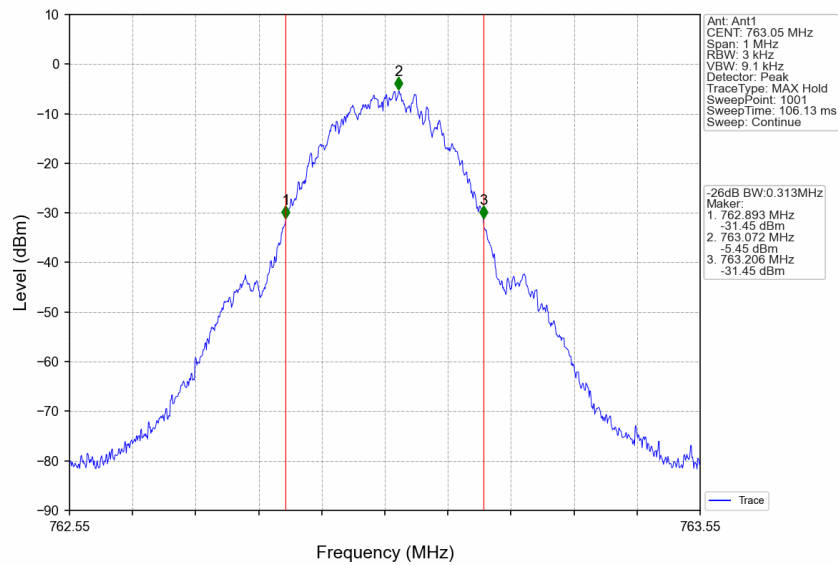
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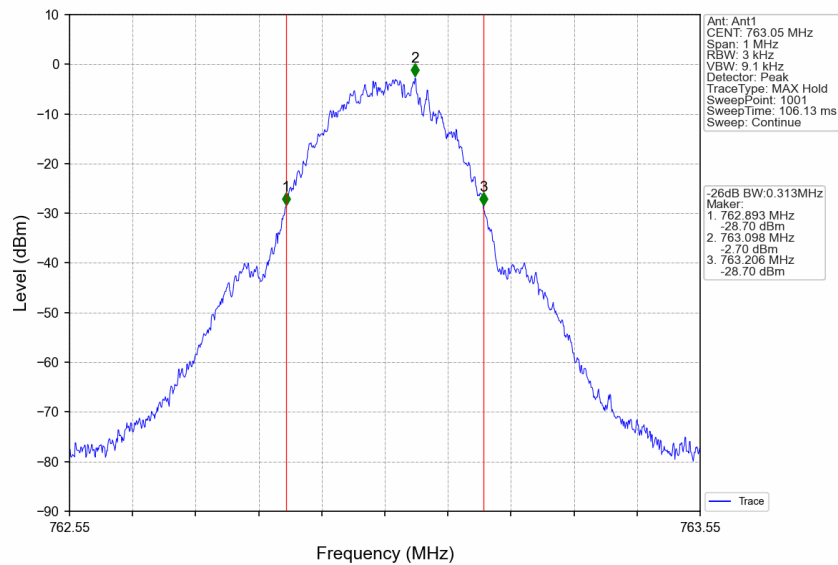
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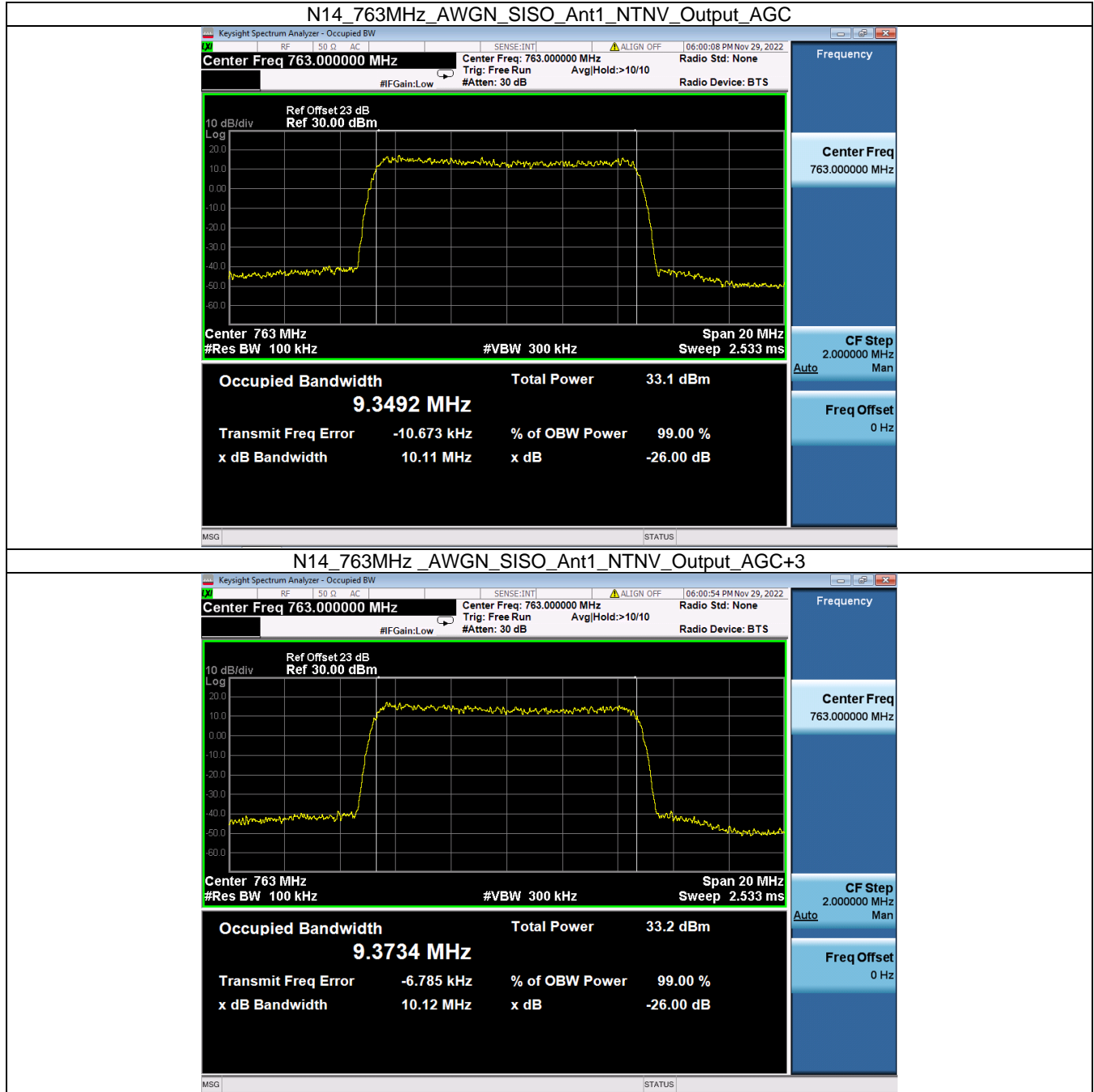
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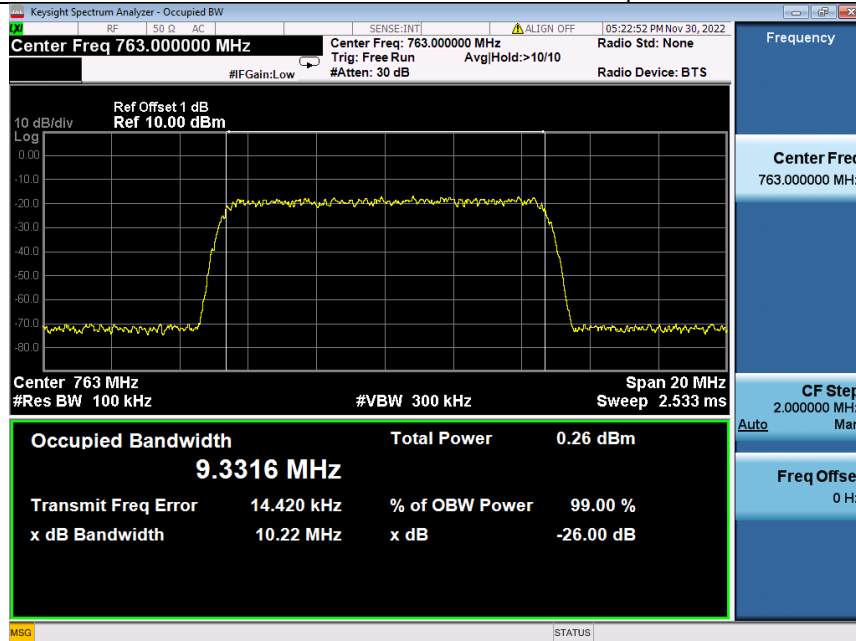
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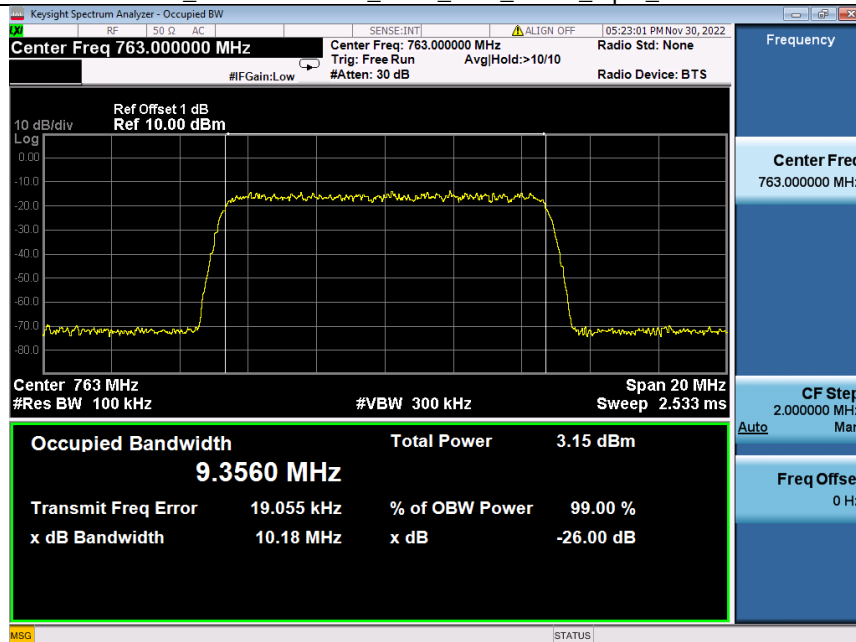
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## N14\_763MHz AWGN\_SISO\_Ant1\_NTNV\_Input\_AGC



## N14\_763MHz AWGN\_SISO\_Ant1\_NTNV\_Input\_AGC+3



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#### 4. Input/output power and amplifier/booster gain

##### 4.1 Band14\_ERP

##### 4.1.1 Test Result

##### For LTE Band 14

Band: 14 / NTNV										
Signal			TX Type	ANT	Conducted Power (dBm/MHz)		ERP (dBm/MHz)		Booster Gain (dB)	Verdict
Type	Level (dBm)	Frequency (MHz)			Output	Input	Result	Limit		
AWGN	0.3	763.05	SISO	1	26.41	-6.86	36.26	<=60	33.27	Pass
	3.3	763.05	SISO	1	26.46	-3.87	36.31	<=60	/	Pass
GMSK	0.3	763.05	SISO	1	33.51	0.22	43.36	<=60	33.29	Pass
	3.3	763.05	SISO	1	33.52	3.23	43.37	<=60	/	Pass

758MHz-768MHz / NTNV							
Operation Band	Frequency (MHz)	Signal	Signal Level	Input Power (dBm)	Total Output Power (dBm)	ERP(dBm)	Gain (dB)
					SISO	SISO	
758MHz-768MHz	763.05	AWGN	Pre-AGC	0.3	33.40	43.25	/
			3dB Above AGC	3.3	33.45	43.30	/
	763.05	GMSK	Pre-AGC	0.3	33.51	43.36	/
			3dB Above AGC	3.3	33.52	43.37	/

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For 5G NR N14

N14 / NTN										
Signal			TX Type	ANT	Conducted Power (dBm/MHz)		ERP (dBm/MHz)		Booster Gain (dB)	Verdict
Type	Level (dBm)	Frequency (MHz)			Output	Input	Result	Limit		
AWGN	0.3	763	SISO	1	23.22	-10.03	33.07	<=60	33.25	Pass
	3.3	763	SISO	1	23.40	-7.01	33.25	<=60	/	Pass

758MHz-768MHz / NTN							
Operation Band	Frequency (MHz)	Signal	Signal Level	Input Power (dBm)	Total Output Power (dBm)	ERP(dBm)	Gain (dB)
					SISO	SISO	
758MHz-768MHz	763	AWGN	Pre-AGC	0.3	33.21	43.06	/
			3dB Above AGC	3.3	33.38	43.23	/

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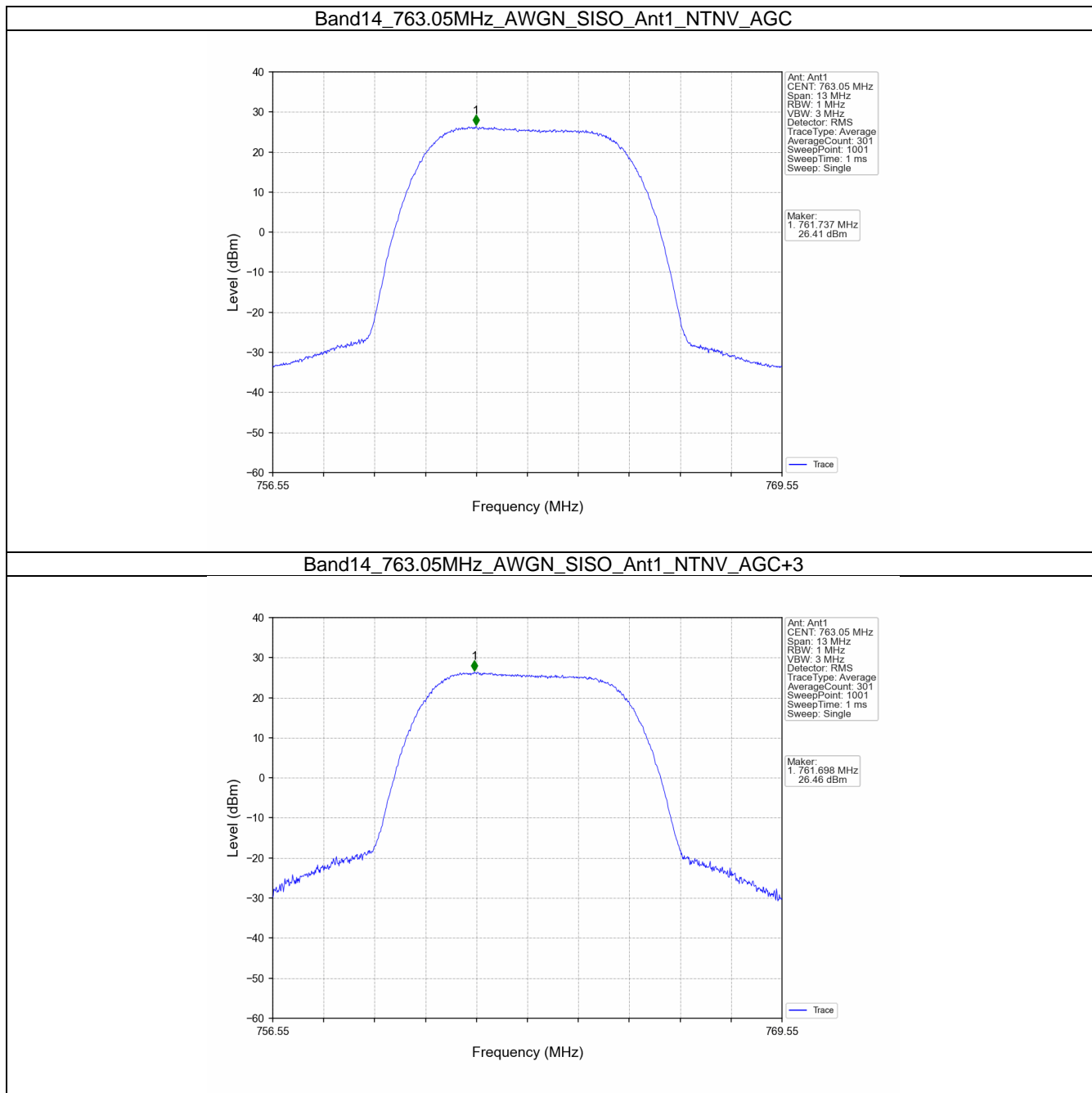
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4.1.2 Test Graph

For LTE Band 14



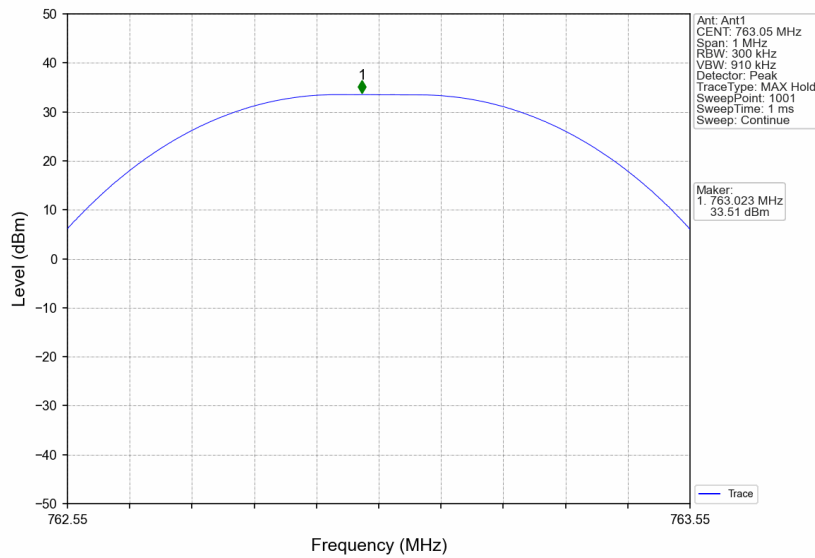
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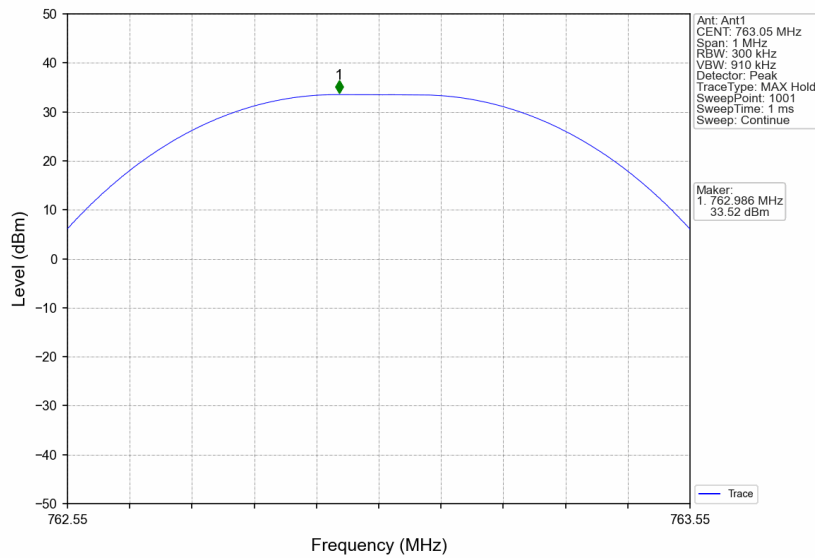
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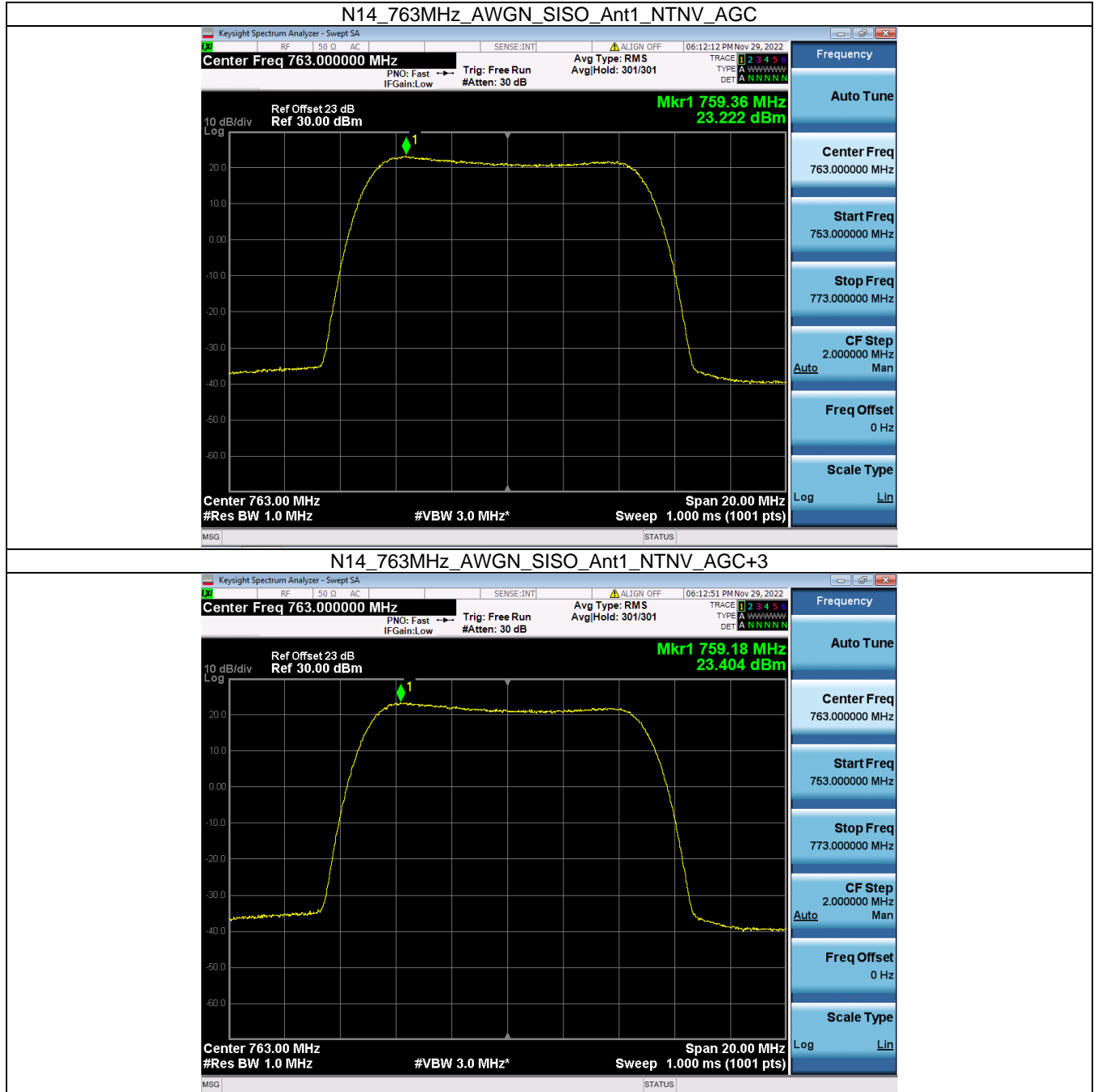


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4.2 Band14\_PAPR

4.2.1 Test Result

For LTE Band 14

Band: 14 / NTV							
Type	Signal		TX Type	ANT	PAPR (dB)		Verdict
	Level (dBm)	Frequency (MHz)			Result	Limit	
AWGN	0.3	763.05	SISO	1	8.18	<=13	Pass
	3.3	763.05	SISO	1	8.18	<=13	Pass
GMSK	0.3	763.05	SISO	1	0.36	<=13	Pass
	3.3	763.05	SISO	1	0.29	<=13	Pass

For 5G NR N14

N14 / NTV							
Type	Signal		TX Type	ANT	PAPR (dB)		Verdict
	Level (dBm)	Frequency (MHz)			Result	Limit	
AWGN	0.3	763	SISO	1	8.39	<=13	Pass
	3.3	763	SISO	1	8.40	<=13	Pass



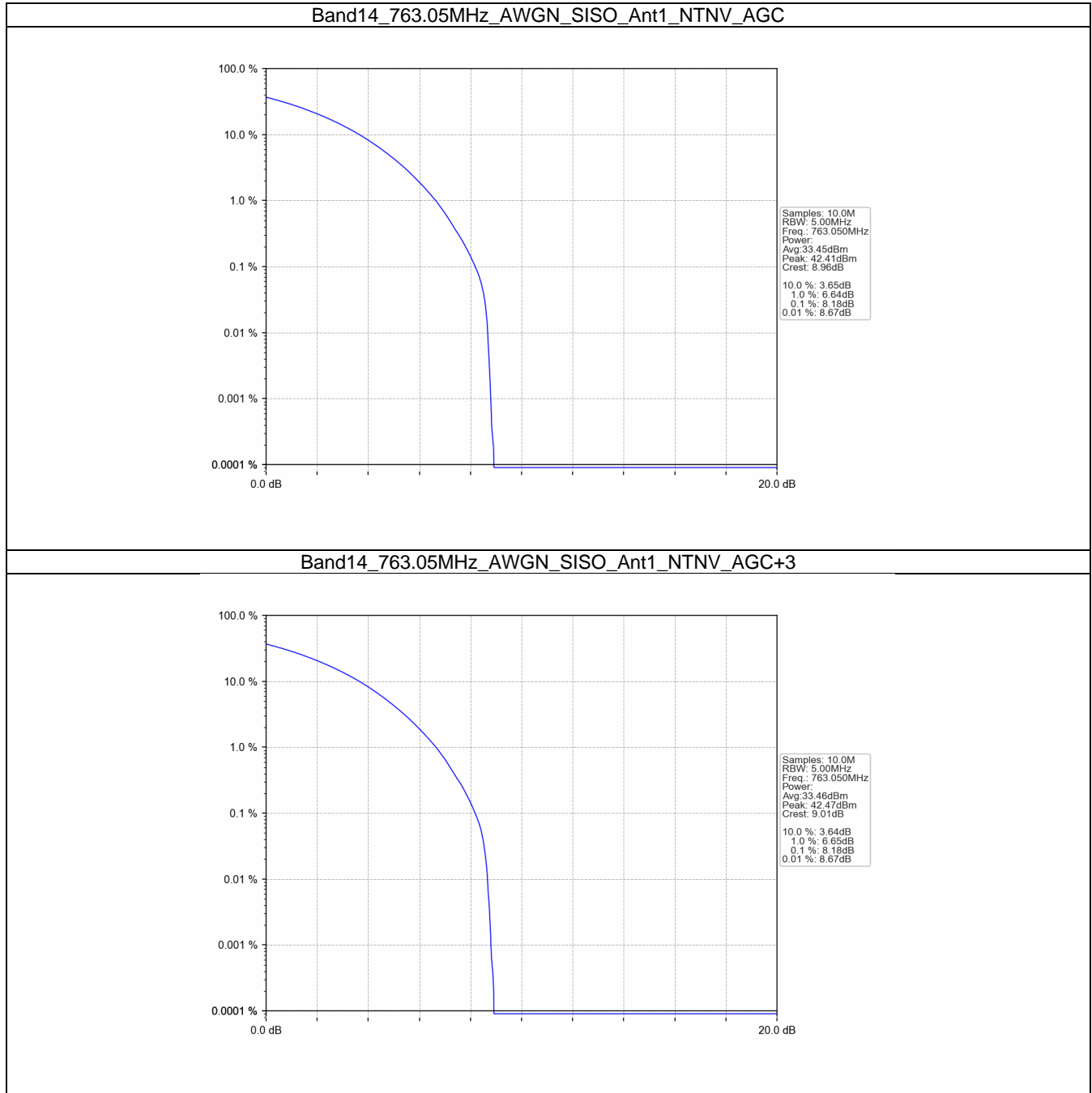
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4.2.2 Test Graph

For LTE Band 14



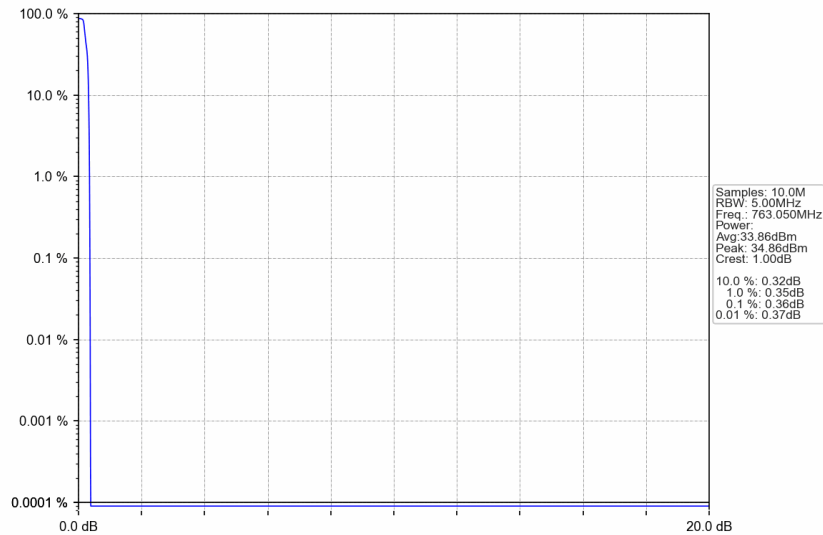
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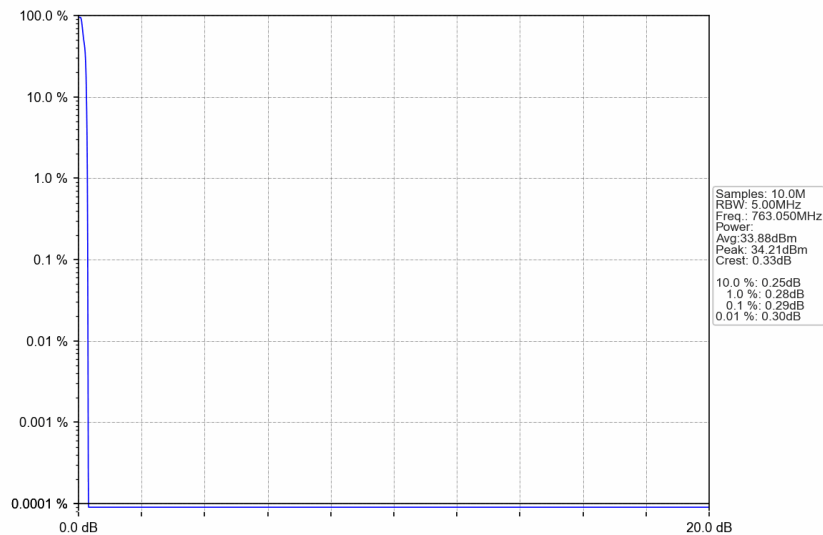
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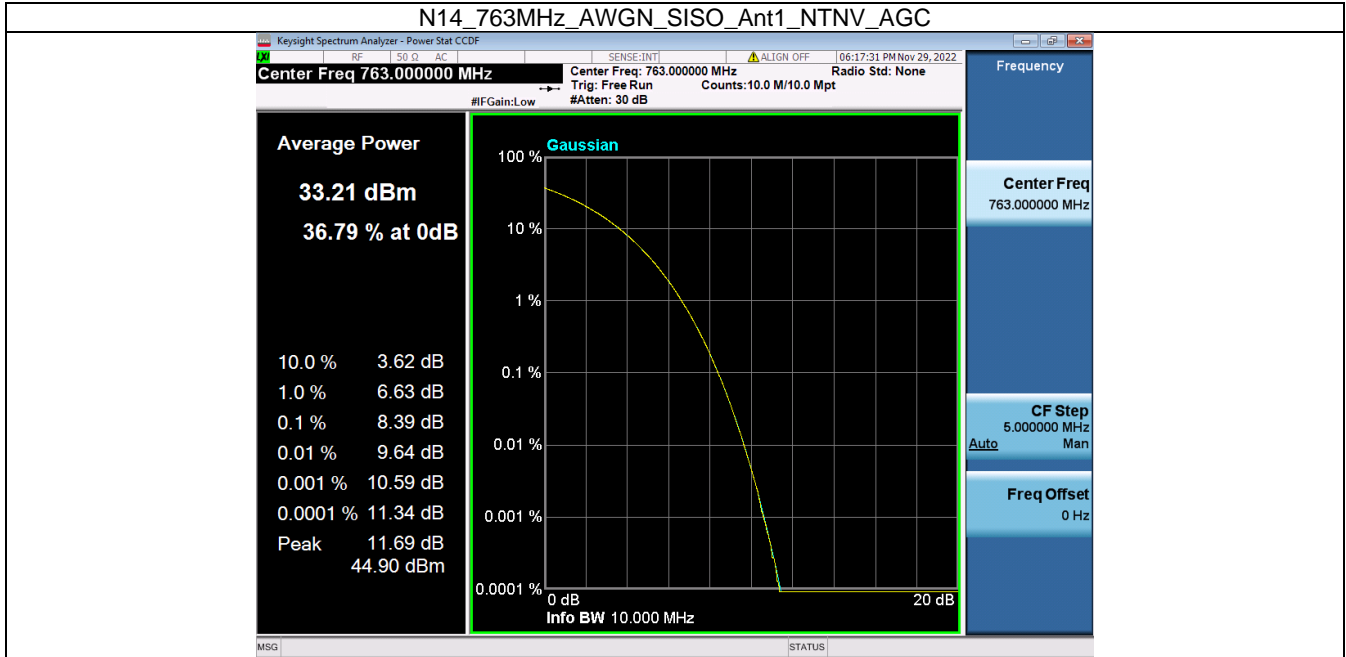
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## 5. Out-of-band/out-of-block (including intermodulation) emissions

### 5.1 Band14

#### 5.1.1 Test Result

#### For LTE Band 14

Band: 14 / NTN									
Input	Type	Signal		Channel	TX Type	ANT	OOB (dBm)		Verdict
		Level (dBm)	Frequency (MHz)				Result	Limit	
Two	AWGN	0.3	760.5	LCH	SISO	1	-61.72	Refer To Test Graph	Pass
		3.3	760.5	LCH	SISO	1	-61.56	Refer To Test Graph	Pass
One	AWGN	0.3	760.5	LCH	SISO	1	-61.42	Refer To Test Graph	Pass
		3.3	760.5	LCH	SISO	1	-62.00	Refer To Test Graph	Pass
Two	AWGN	0.3	765.5	HCH	SISO	1	-61.98	Refer To Test Graph	Pass
		3.3	765.5	HCH	SISO	1	-61.75	Refer To Test Graph	Pass
One	AWGN	0.3	765.5	HCH	SISO	1	-61.44	Refer To Test Graph	Pass
		3.3	765.5	HCH	SISO	1	-61.80	Refer To Test Graph	Pass
Two	GMSK	0.3	758.1	LCH	SISO	1	-61.92	Refer To Test Graph	Pass
		3.3	758.1	LCH	SISO	1	-61.91	Refer To Test Graph	Pass
One	GMSK	0.3	758.1	LCH	SISO	1	-61.57	Refer To Test Graph	Pass
		3.3	758.1	LCH	SISO	1	-61.94	Refer To Test Graph	Pass
Two	GMSK	0.3	767.9	HCH	SISO	1	-62.13	Refer To Test Graph	Pass
		3.3	767.9	HCH	SISO	1	-61.92	Refer To Test Graph	Pass
One	GMSK	0.3	767.9	HCH	SISO	1	-61.83	Refer To Test Graph	Pass
		3.3	767.9	HCH	SISO	1	-61.90	Refer To Test Graph	Pass

#### For 5G NR N14

N14 / NTN									
Input	Type	Signal		Channel	TX Type	ANT	OOB (dBm)		Verdict
		Level (dBm)	Frequency (MHz)				Result	Limit	
Two	AWGN	0.3	763	MCH	SISO	1	-43.127	Refer To Test Graph	Pass
		3.3	763	MCH	SISO	1	-43.007	Refer To Test Graph	Pass
One	AWGN	0.3	763	MCH	SISO	1	-43.411	Refer To Test Graph	Pass
		3.3	763	MCH	SISO	1	-43.320	Refer To Test Graph	Pass
Two	AWGN	0.3	763	MCH	SISO	1	-43.210	Refer To Test Graph	Pass
		3.3	763	MCH	SISO	1	-43.226	Refer To Test Graph	Pass
One	AWGN	0.3	763	MCH	SISO	1	-43.297	Refer To Test Graph	Pass
		3.3	763	MCH	SISO	1	-42.751	Refer To Test Graph	Pass



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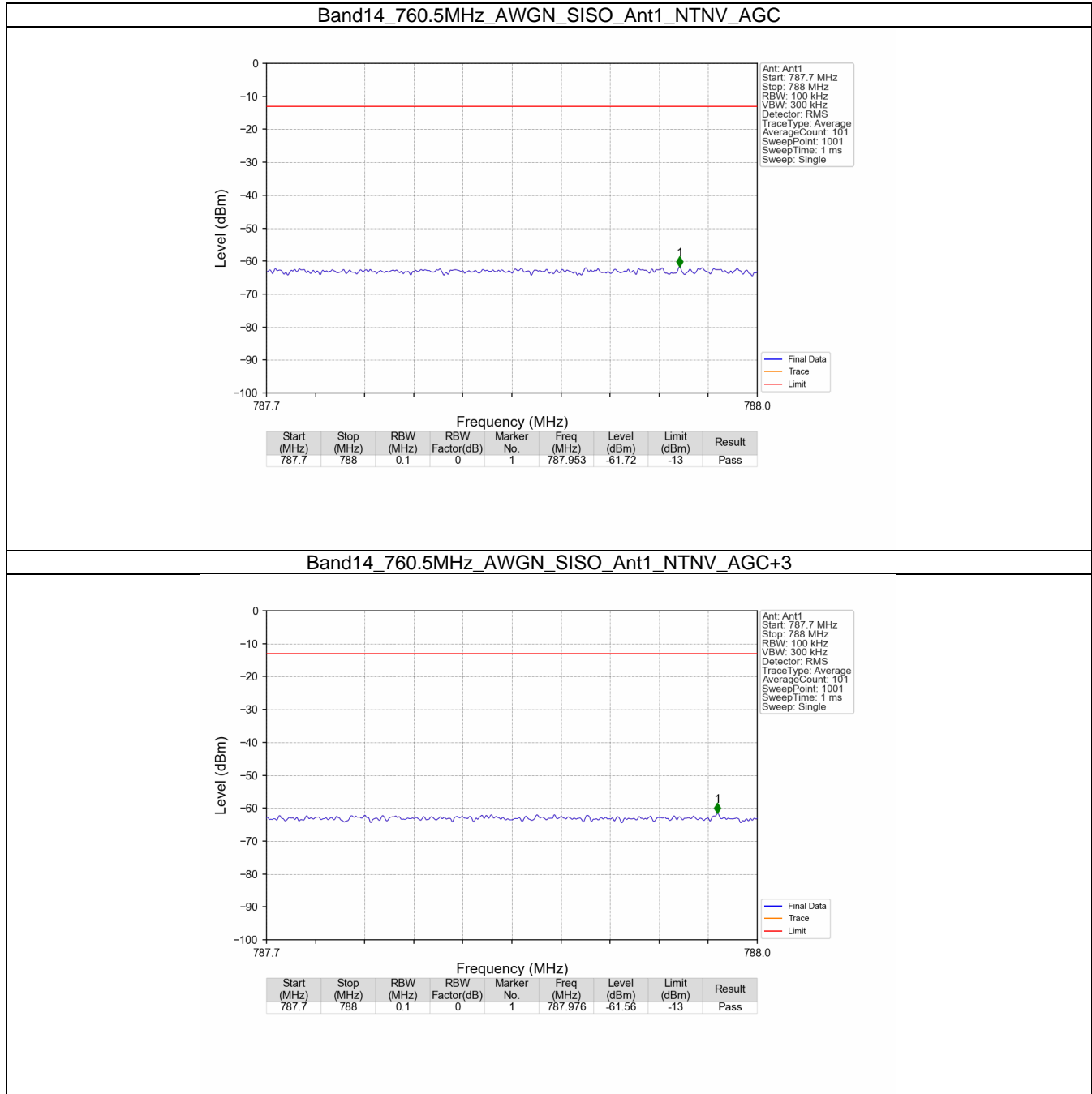
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5.1.2 Test Graph

For LTE Band 14



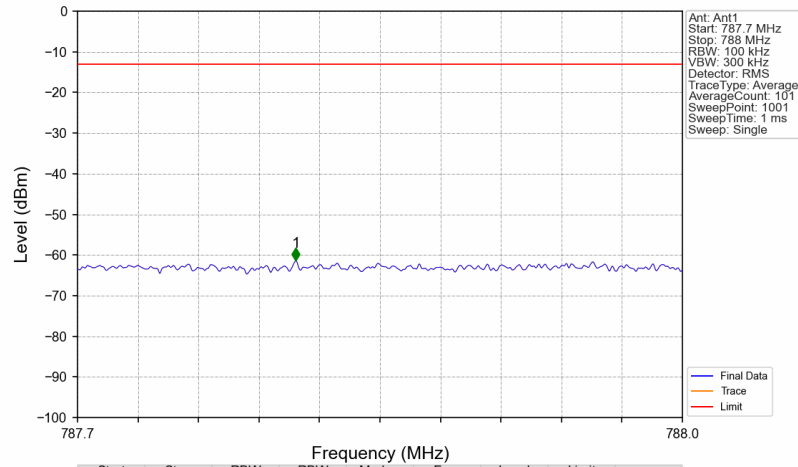
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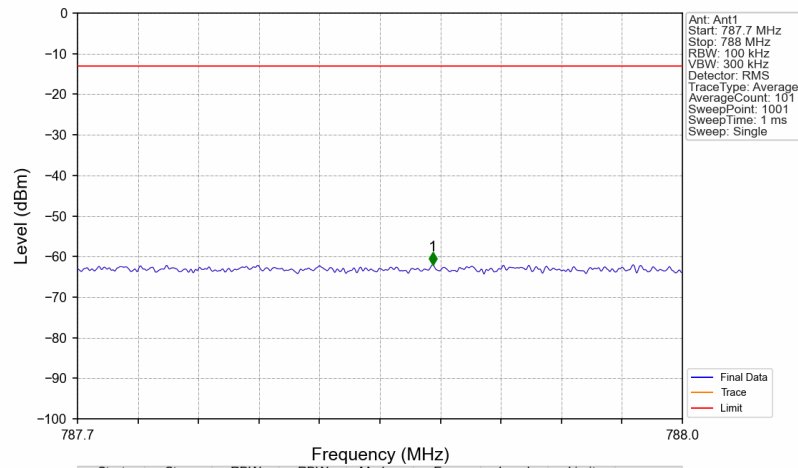
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### Band14\_760.5MHz\_AWGN\_SISO\_Ant1\_NTNV\_AGC



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor (dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
787.7	788	0.1	0	1	787.808	-61.42	-13	Pass

### Band14\_760.5MHz\_AWGN\_SISO\_Ant1\_NTNV\_AGC+3



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor (dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
787.7	788	0.1	0	1	787.876	-62.00	-13	Pass



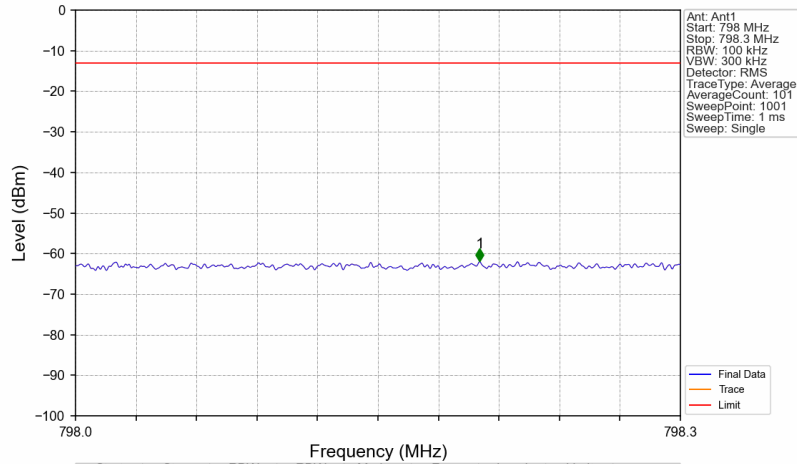
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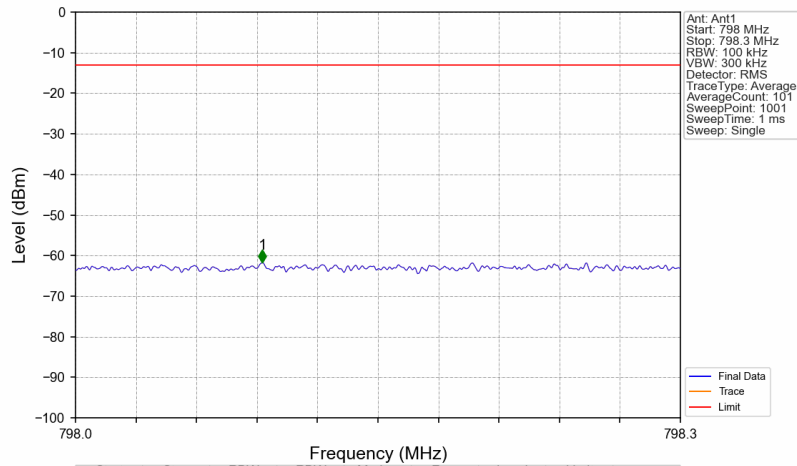
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### Band14\_765.5MHz\_AWGN\_SISO\_Ant1\_NTNV\_AGC



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
798	798.3	0.1	0	1	798.200	-61.98	-13	Pass

### Band14\_765.5MHz\_AWGN\_SISO\_Ant1\_NTNV\_AGC+3



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
798	798.3	0.1	0	1	798.093	-61.75	-13	Pass



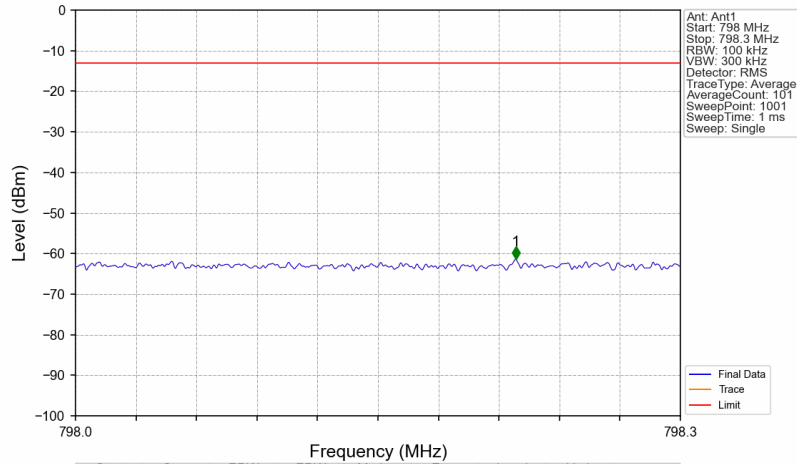
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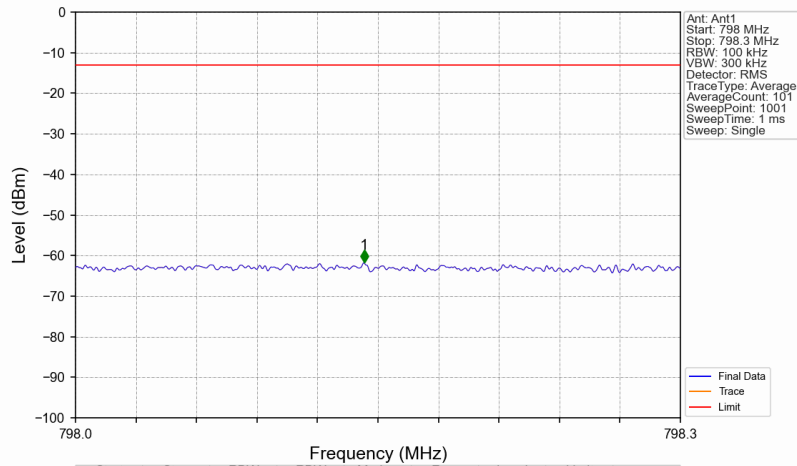
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### Band14\_765.5MHz\_AWGN\_SISO\_Ant1\_NTNV\_AGC



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor (dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
798	798.3	0.1	0	1	798.218	-61.44	-13	Pass

### Band14\_765.5MHz\_AWGN\_SISO\_Ant1\_NTNV\_AGC+3



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor (dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
798	798.3	0.1	0	1	798.143	-61.80	-13	Pass



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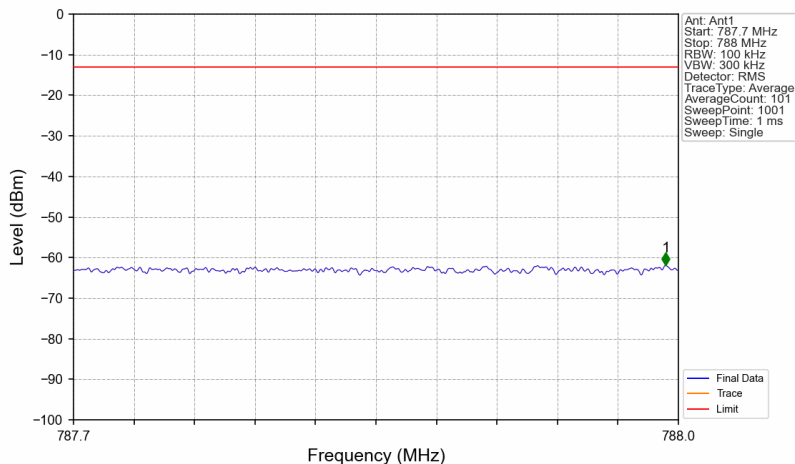
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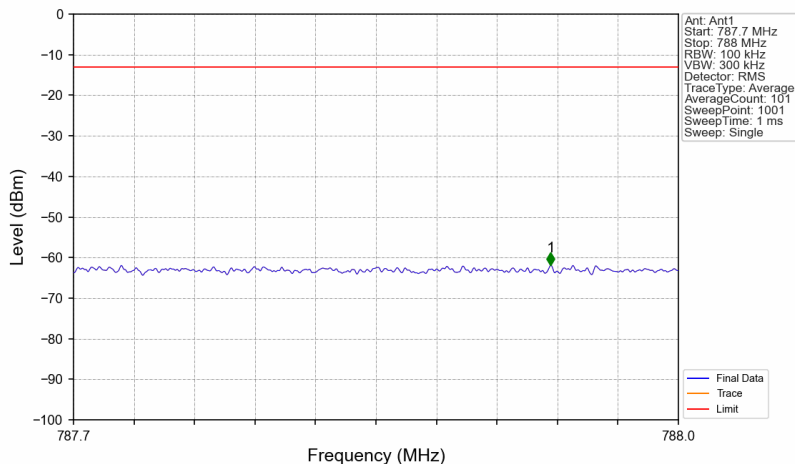
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### Band14\_758.1MHz\_GMSK\_SISO\_Ant1\_NTNV\_AGC



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
787.7	788	0.1	0	1	787.994	-61.92	-13	Pass

### Band14\_758.1MHz\_GMSK\_SISO\_Ant1\_NTNV\_AGC+3



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
787.7	788	0.1	0	1	787.937	-61.91	-13	Pass



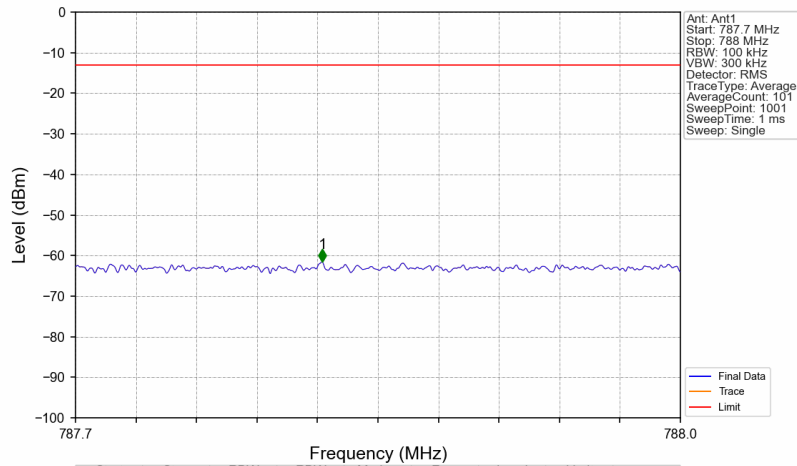
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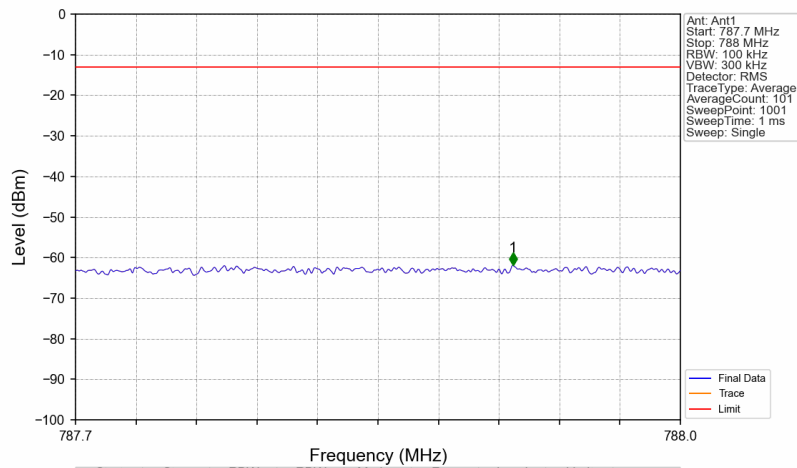


### Band14\_758.1MHz\_GMSK\_SISO\_Ant1\_NTNV\_AGC



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
787.7	788	0.1	0	1	787.822	-61.57	-13	Pass

### Band14\_758.1MHz\_GMSK\_SISO\_Ant1\_NTNV\_AGC+3



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
787.7	788	0.1	0	1	787.917	-61.94	-13	Pass



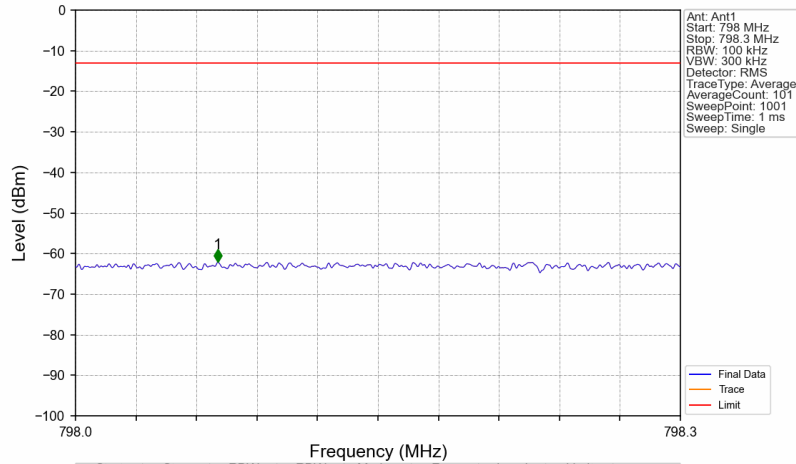
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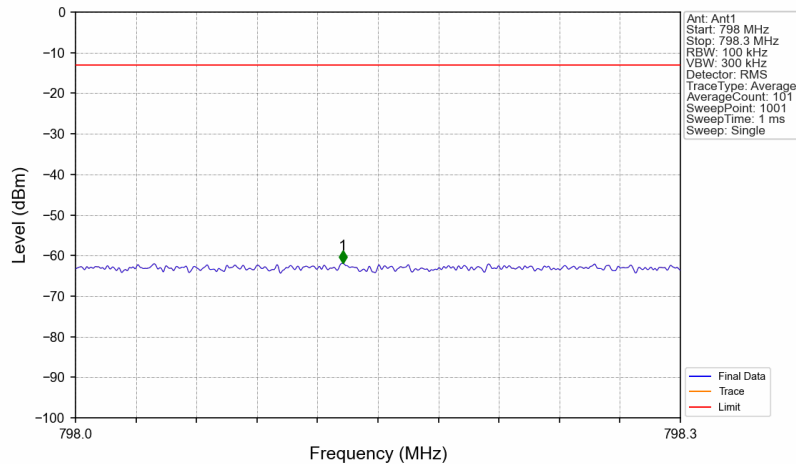
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### Band14\_767.9MHz\_GMSK\_SISO\_Ant1\_NTNV\_AGC



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor (dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
798	798.3	0.1	0	1	798.071	-62.13	-13	Pass

### Band14\_767.9MHz\_GMSK\_SISO\_Ant1\_NTNV\_AGC+3



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor (dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
798	798.3	0.1	0	1	798.133	-61.92	-13	Pass



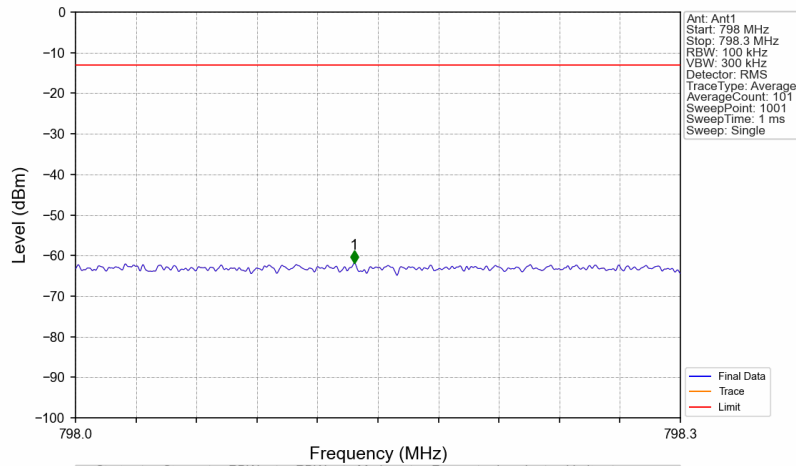
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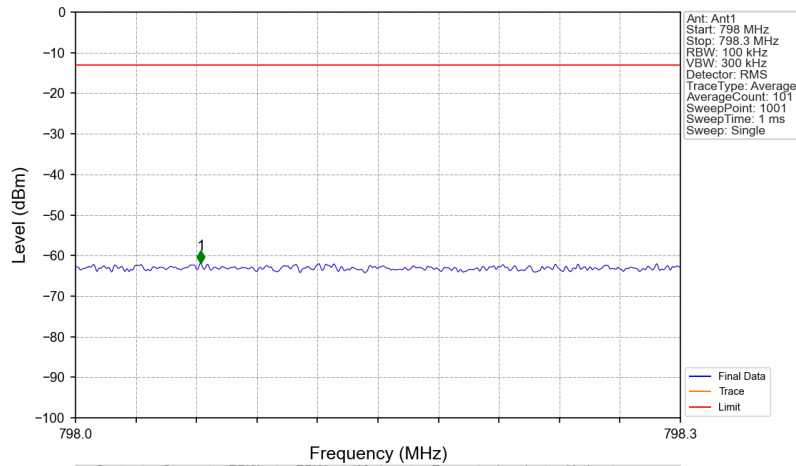
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### Band14\_767.9MHz\_GMSK\_SISO\_Ant1\_NTNV\_AGC



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
798	798.3	0.1	0	1	798.138	-61.83	-13	Pass

### Band14\_767.9MHz\_GMSK\_SISO\_Ant1\_NTNV\_AGC+3



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
798	798.3	0.1	0	1	798.062	-61.90	-13	Pass



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For 5G NR N14



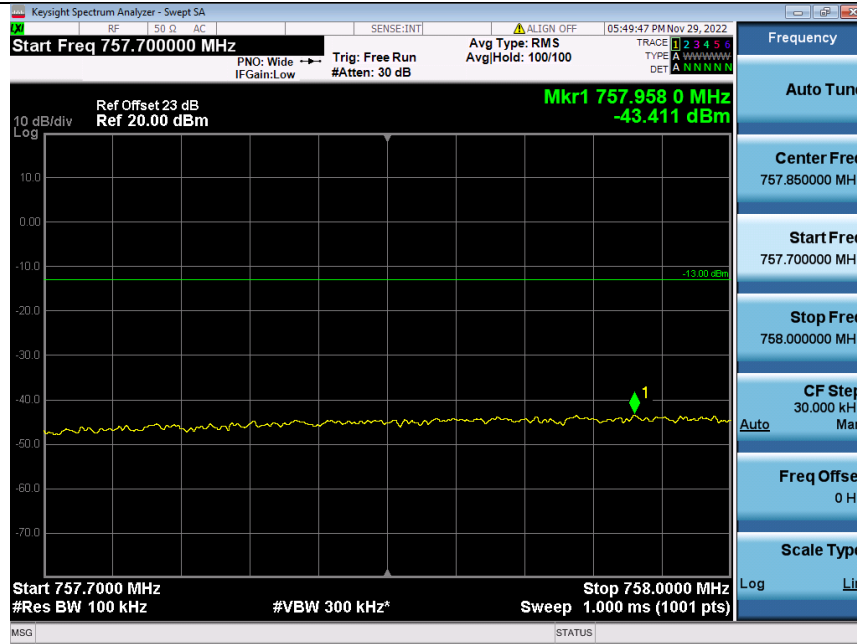
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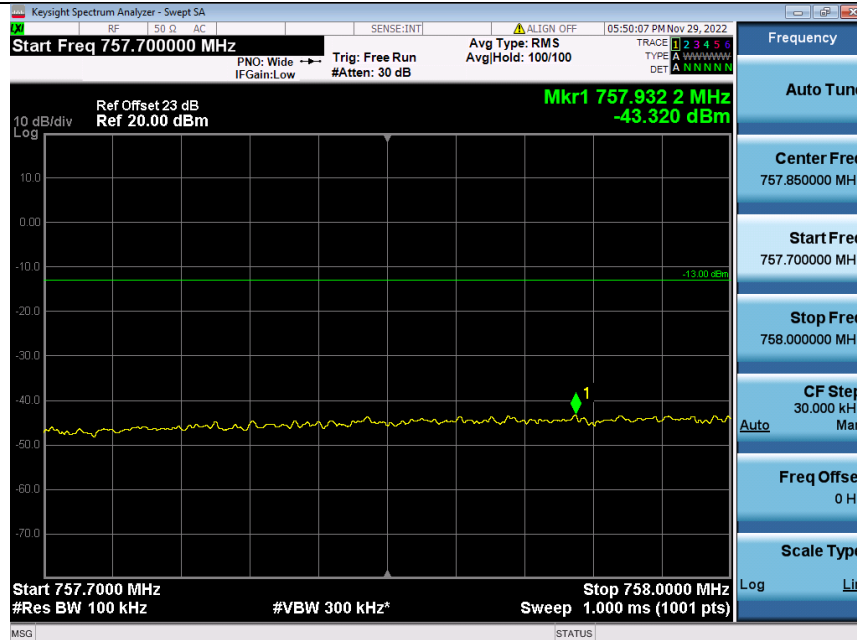
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## N14\_763MHz AWGN\_SISO\_Ant1\_NTNV\_AGC



## N14\_763MHz AWGN\_SISO\_Ant1\_NTNV\_AGC+3



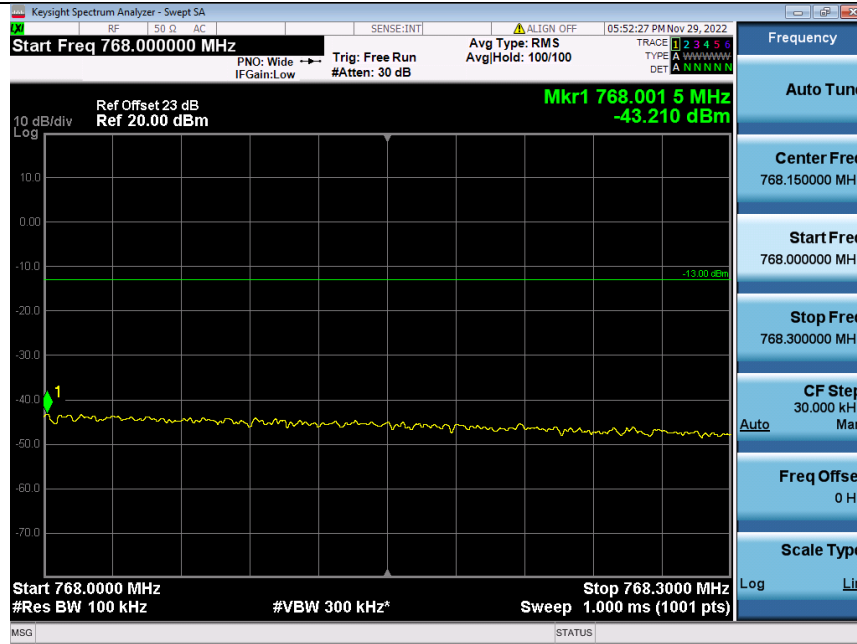
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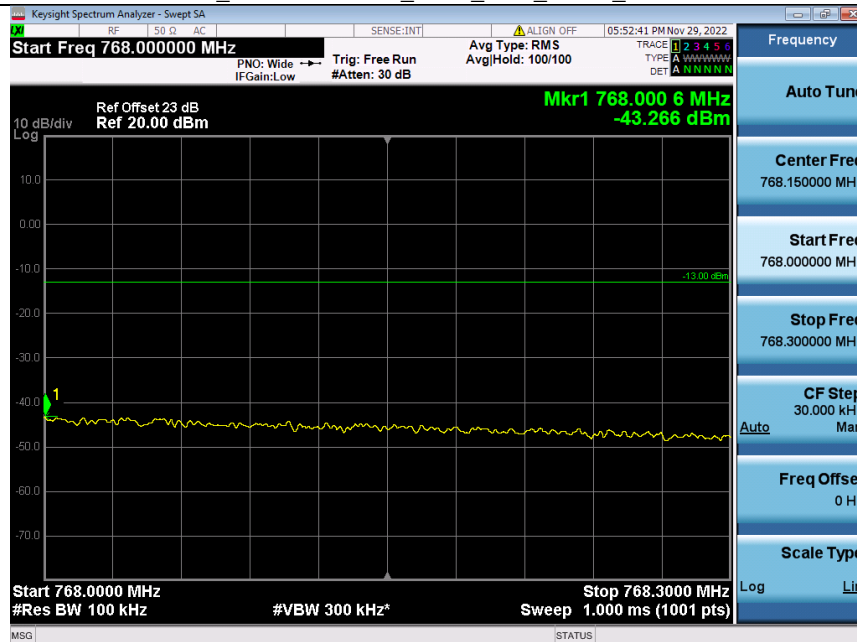
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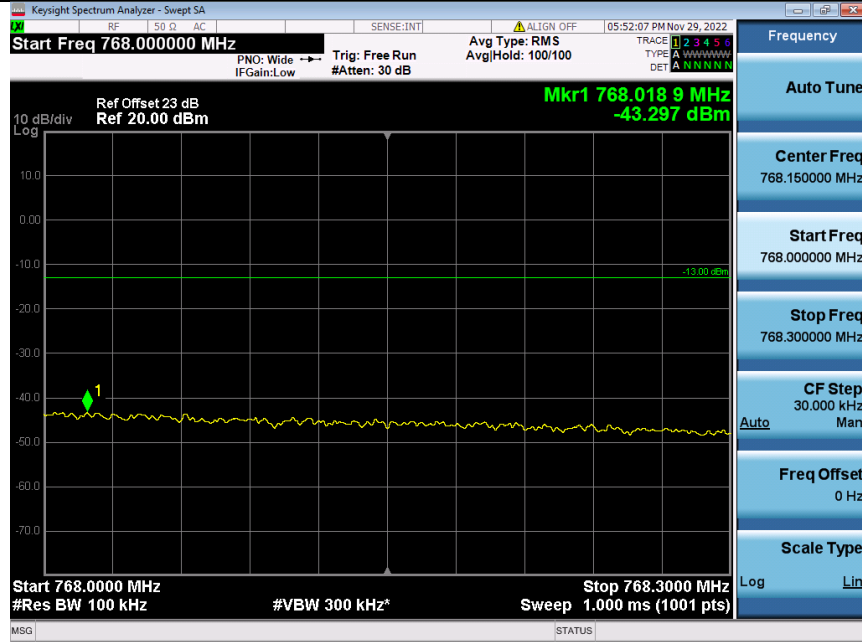
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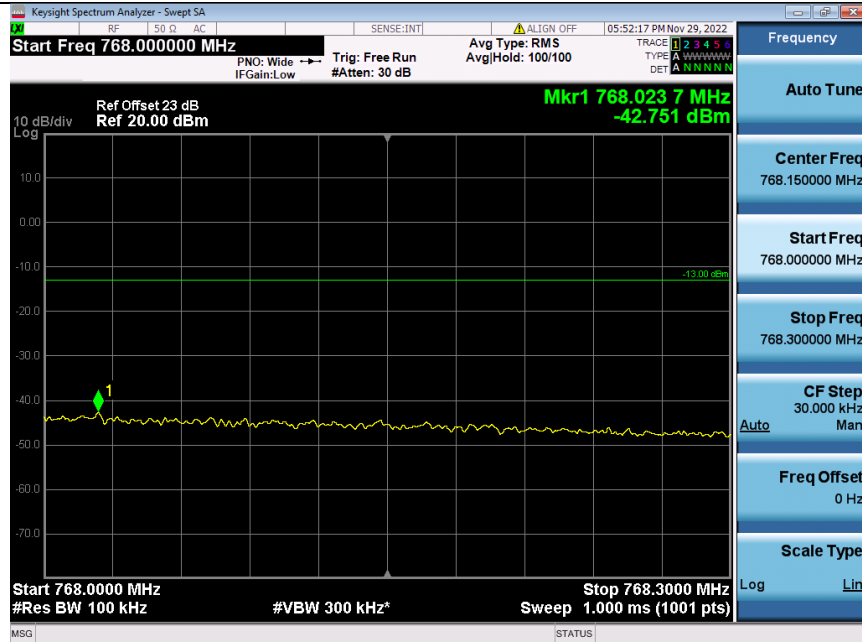
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## N14\_763MHz AWGN\_SISO\_Ant1\_NTNV\_AGC



## N14\_763MHz AWGN\_SISO\_Ant1\_NTNV\_AGC+3



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## 6. Spurious emissions

### 6.1 Band14

#### 6.1.1 Test Result

##### For LTE Band 14

Band: 14 / NTNV								
Signal			Channel	TX Type	ANT	SE (dBm)		Verdict
Type	Level (dBm)	Frequency (MHz)				Result	Limit	
AWGN	0.3	760.5	LCH	SISO	1	Refer To Test Graph		Pass
		763	MCH	SISO	1	Refer To Test Graph		Pass
		765.5	HCH	SISO	1	Refer To Test Graph		Pass
GMSK	0.3	758.1	LCH	SISO	1	Refer To Test Graph		Pass
		763	MCH	SISO	1	Refer To Test Graph		Pass
		767.9	HCH	SISO	1	Refer To Test Graph		Pass

##### For 5G NR N14

N14 / NTNV								
Signal			Channel	TX Type	ANT	SE (dBm)		Verdict
Type	Level (dBm)	Frequency (MHz)				Result	Limit	
AWGN	0.3	763	MCH	SISO	1	Refer To Test Graph		Pass

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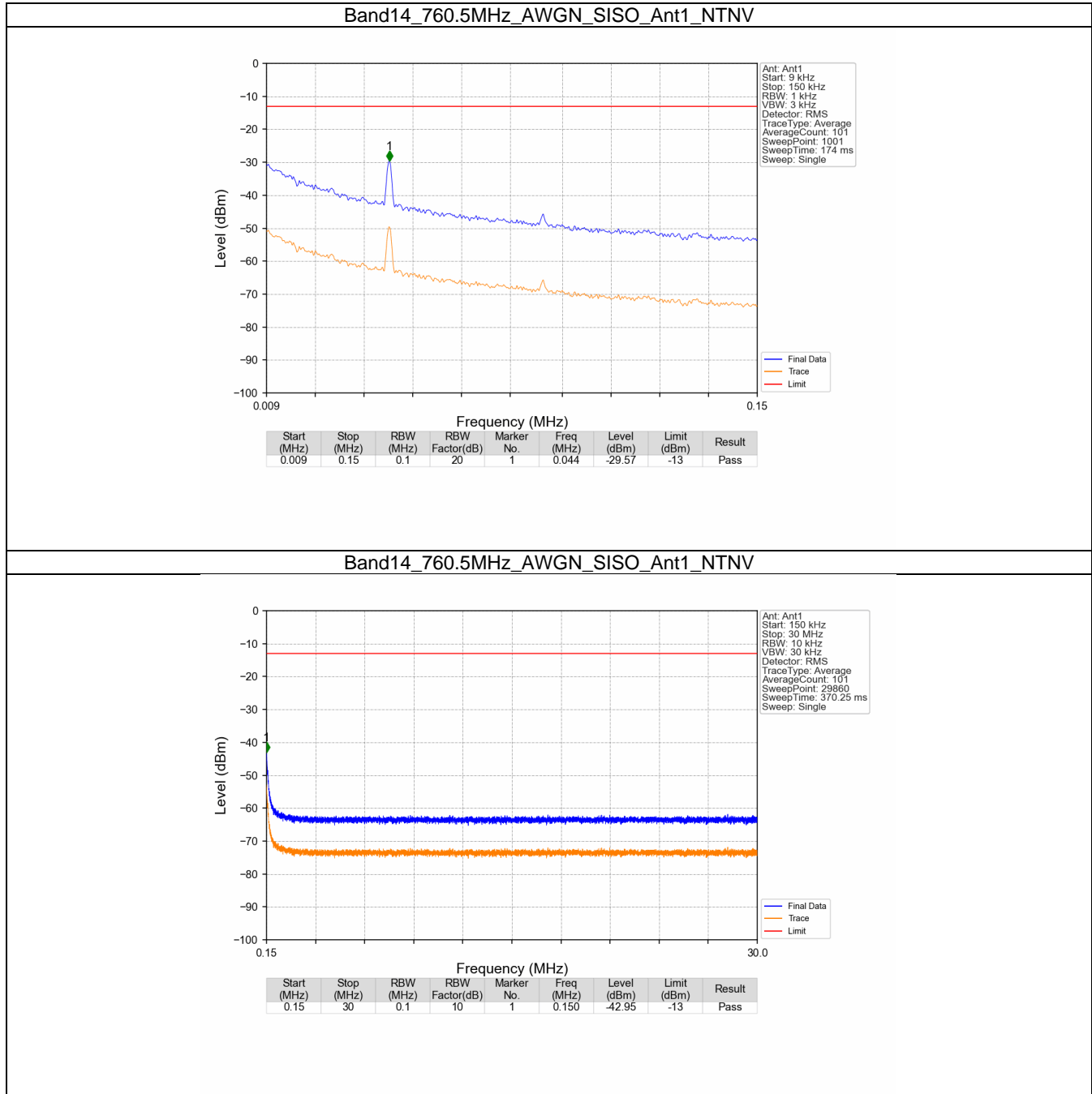
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6.1.2 Test Graph

For LTE Band 14



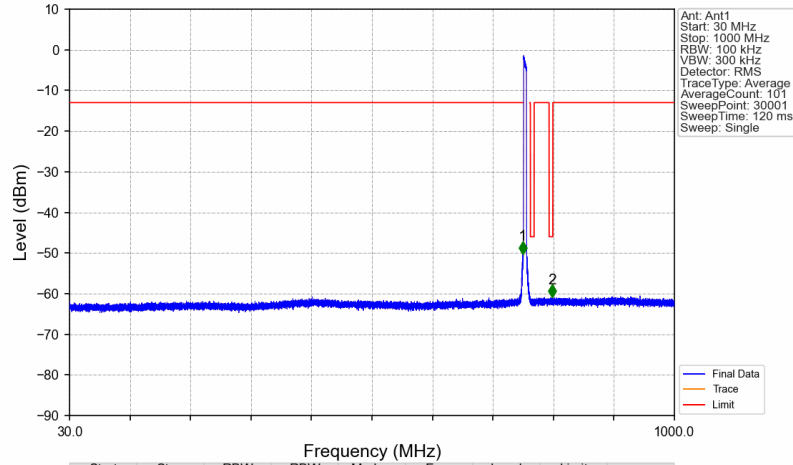
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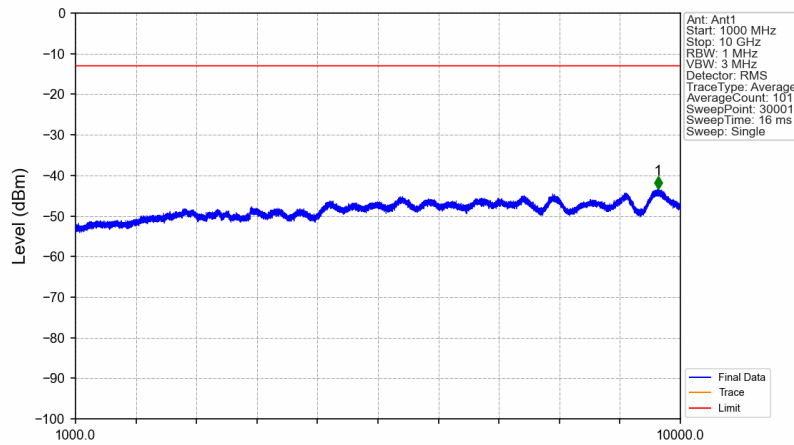
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### Band14\_760.5MHz\_AWGN\_SISO\_Ant1\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
30	757.9	0.1	0	1	756.950	-50.24	-13	Pass
757.9	769	0.1	0	/	/	/	/	/
769	1000	0.1	0	2	804.480	-60.93	-46	Pass

### Band14\_760.5MHz\_AWGN\_SISO\_Ant1\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1000	10000	1	0	1	9665.800	-43.33	-13	Pass



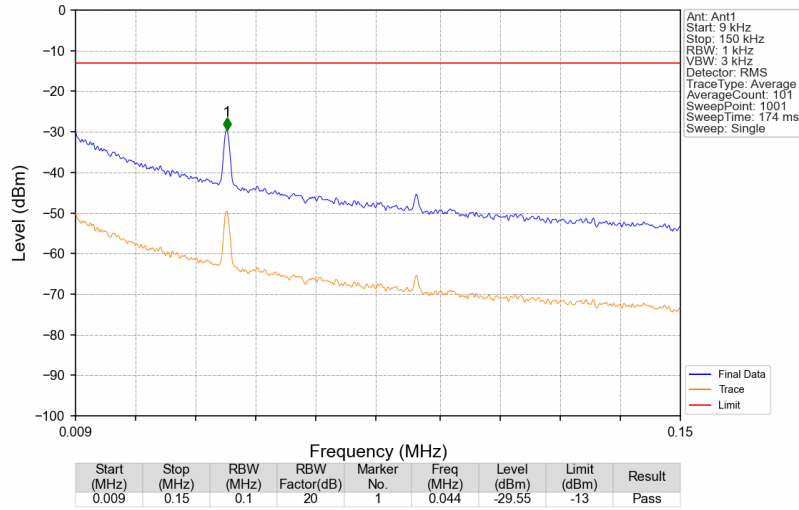
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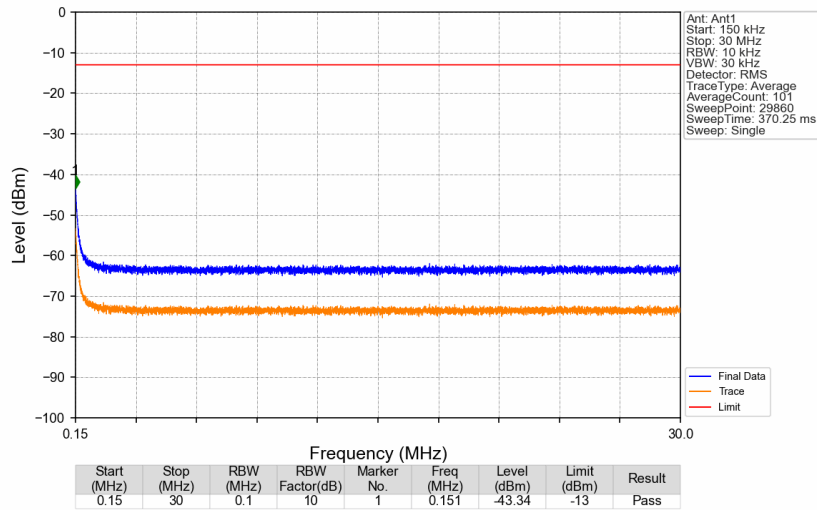
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Band14\_763MHz\_AWGN\_SISO\_Ant1\_NTNV



Band14\_763MHz\_AWGN\_SISO\_Ant1\_NTNV



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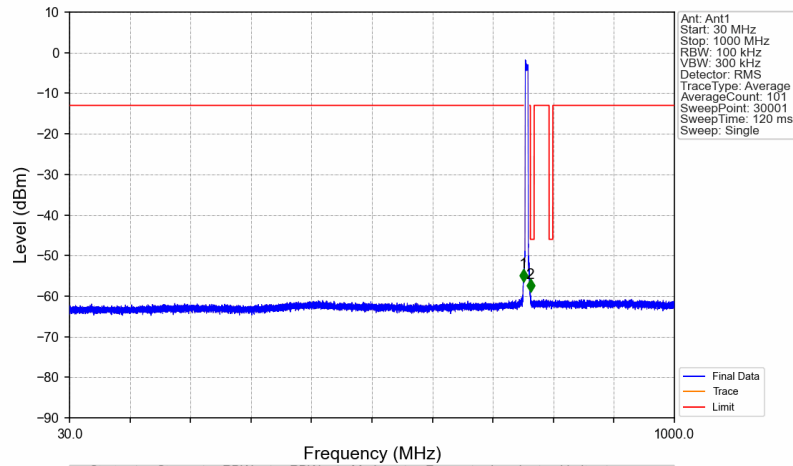
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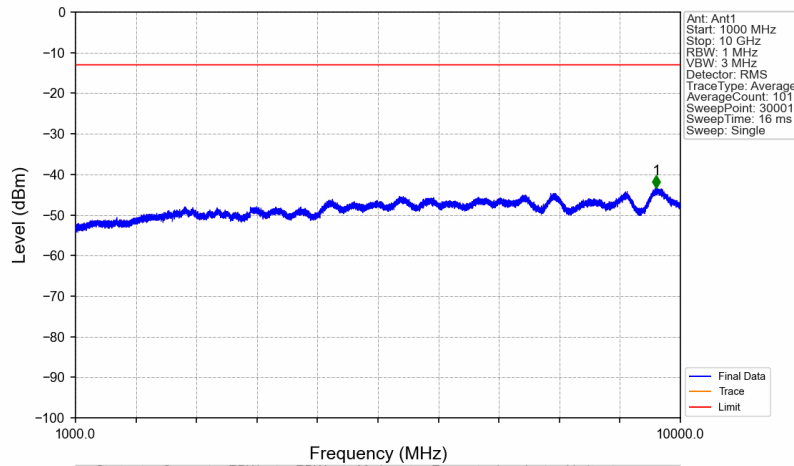
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Band14\_763MHz\_AWGN\_SISO\_Ant1\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
30	757.9	0.1	0	1	757.694	-56.43	-13	Pass
757.9	769	0.1	0	/	/	/	/	/
769	1000	0.1	0	2	769.011	-58.94	-46	Pass

Band14\_763MHz\_AWGN\_SISO\_Ant1\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1000	10000	1	0	1	9643.300	-43.38	-13	Pass



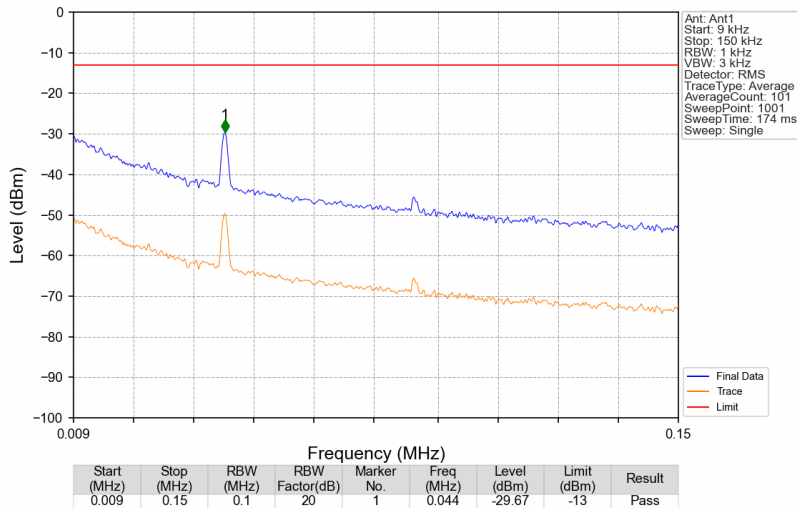
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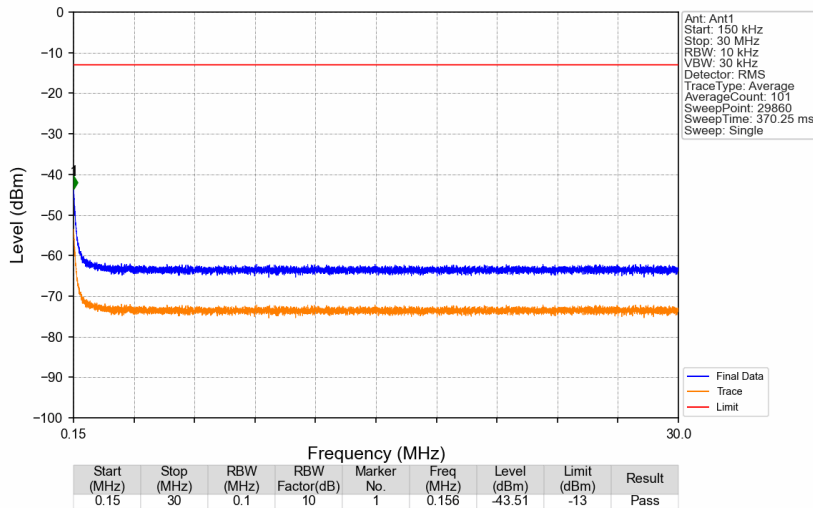
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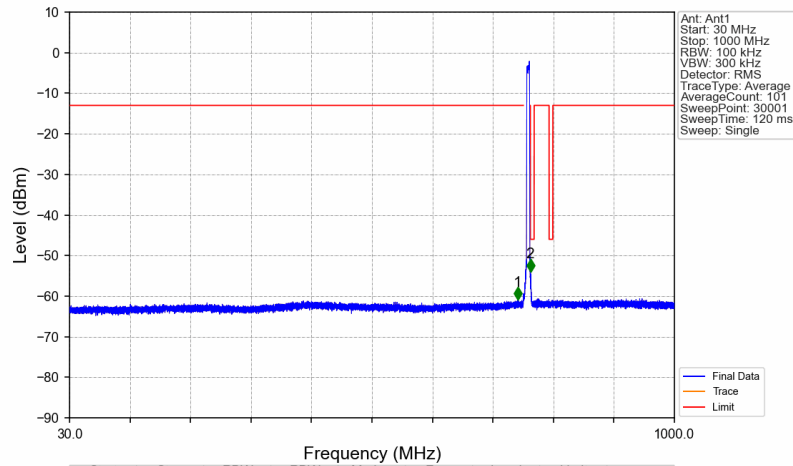
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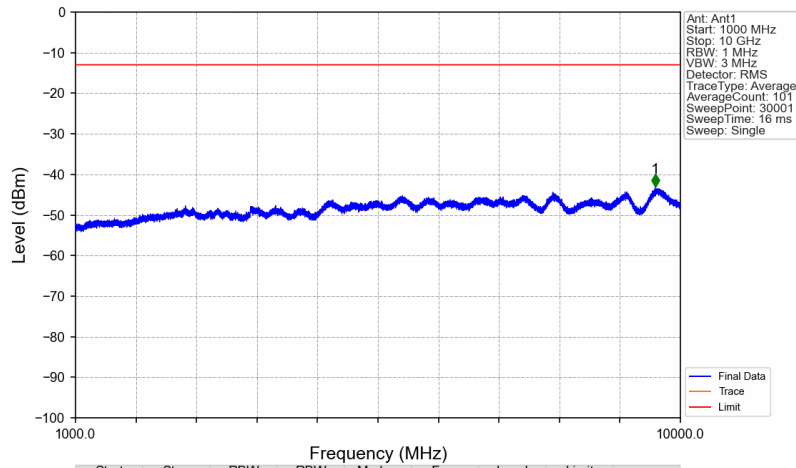


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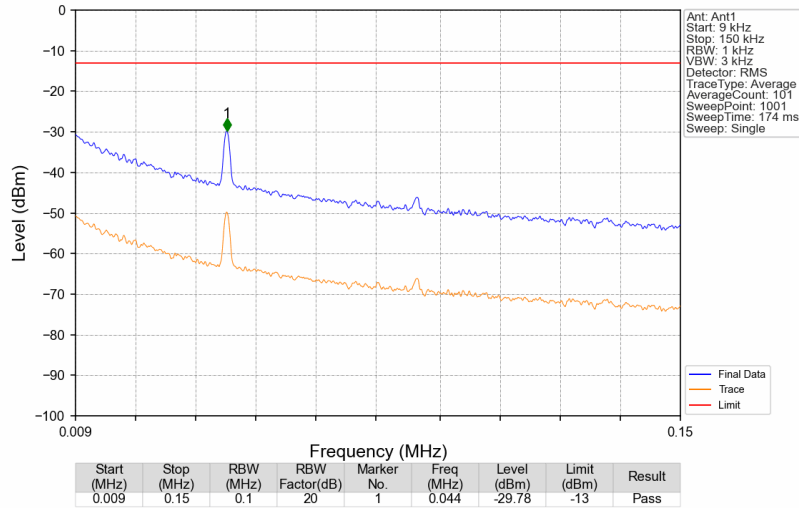
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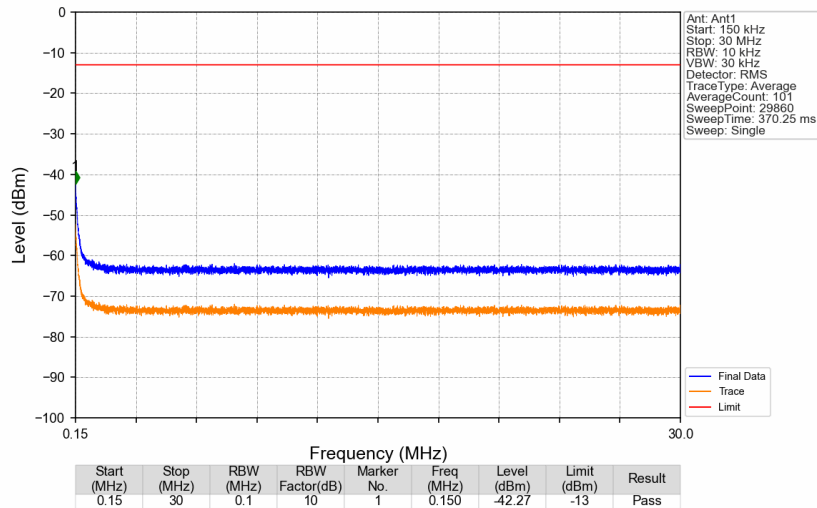
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Band14\_758.1MHz\_GMSK\_SISO\_Ant1\_NTNV



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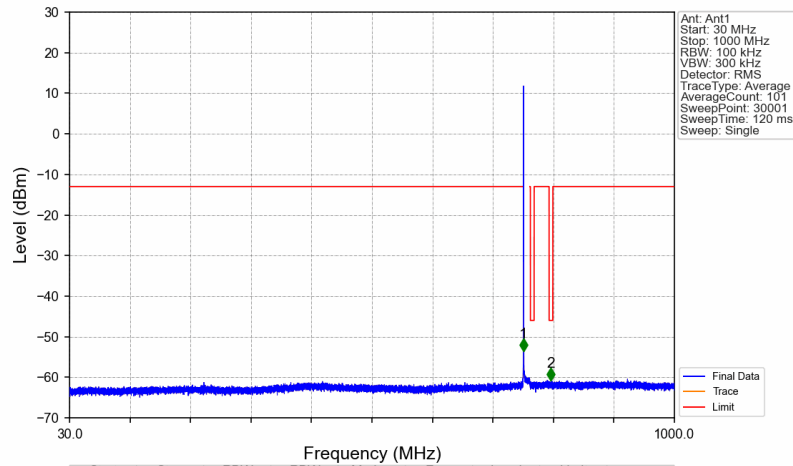
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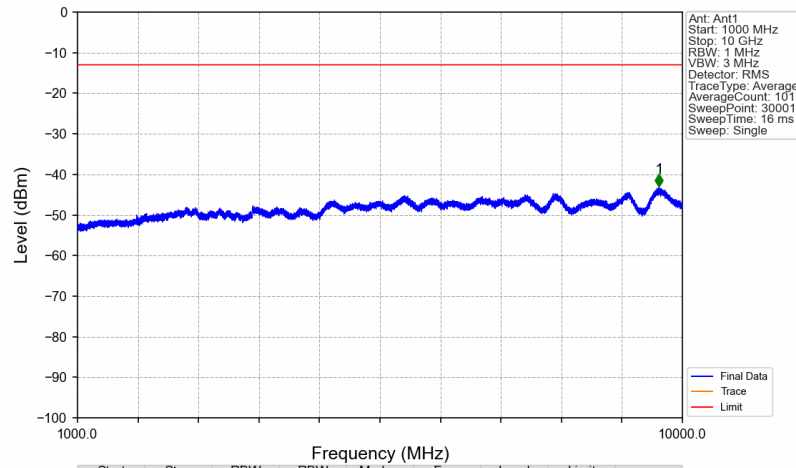


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### Band14\_758.1MHz\_GMSK\_SISO\_Ant1\_NTNV



### Band14\_758.1MHz\_GMSK\_SISO\_Ant1\_NTNV



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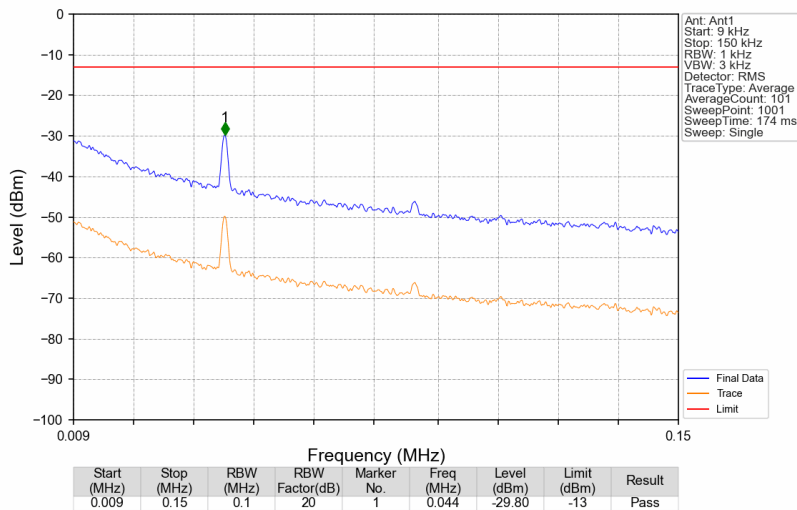
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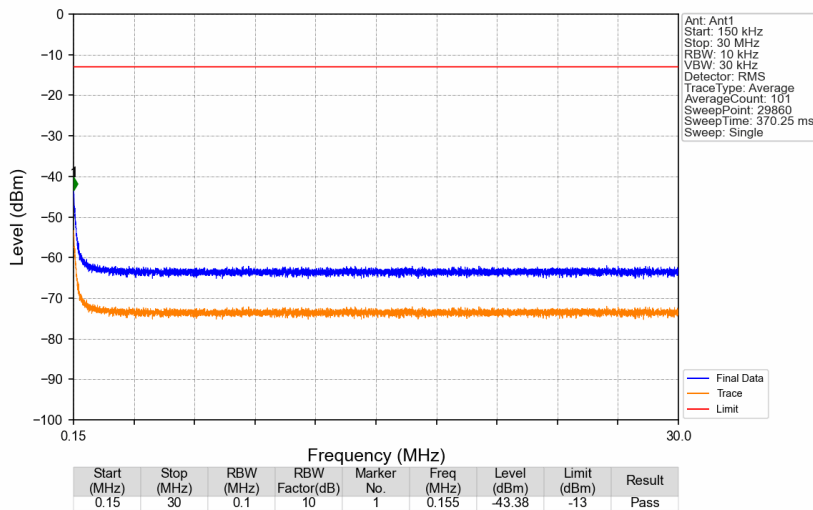
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Band14\_763MHz\_GMSK\_SISO\_Ant1\_NTNV



Band14\_763MHz\_GMSK\_SISO\_Ant1\_NTNV



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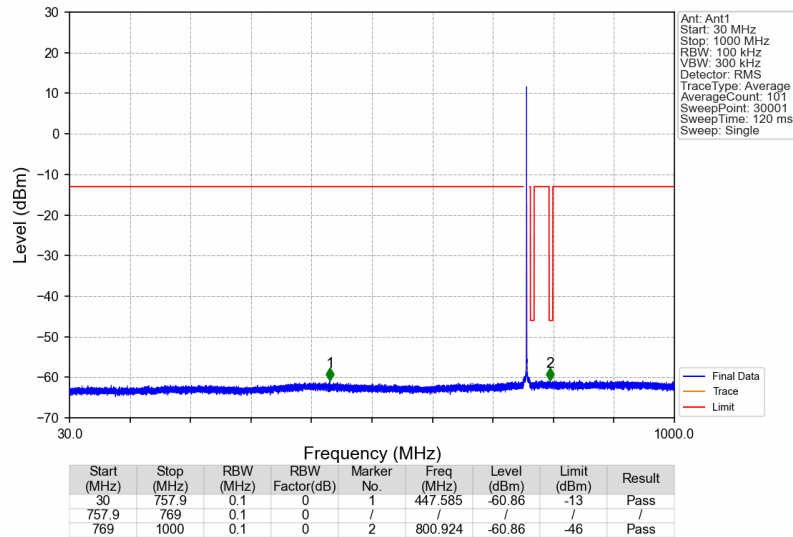
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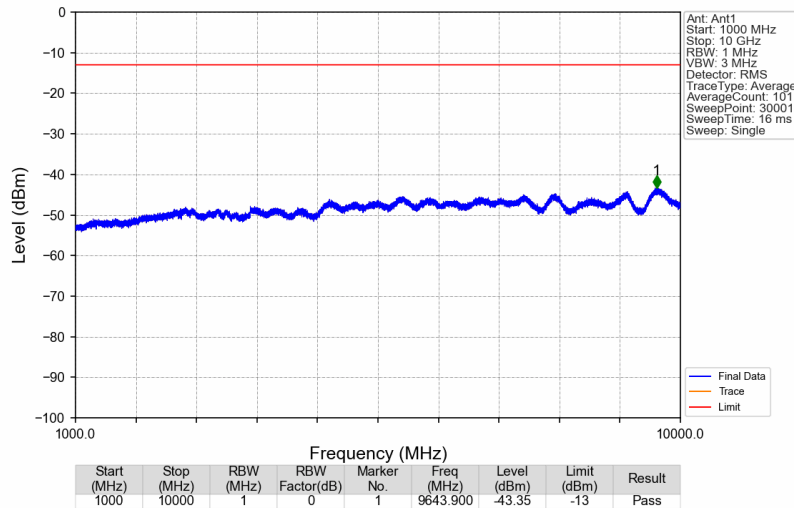


Compliance Certification Services (Kunshan) Inc.  
 EMC Laboratory

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Band14\_763MHz\_GMSK\_SISO\_Ant1\_NTNV



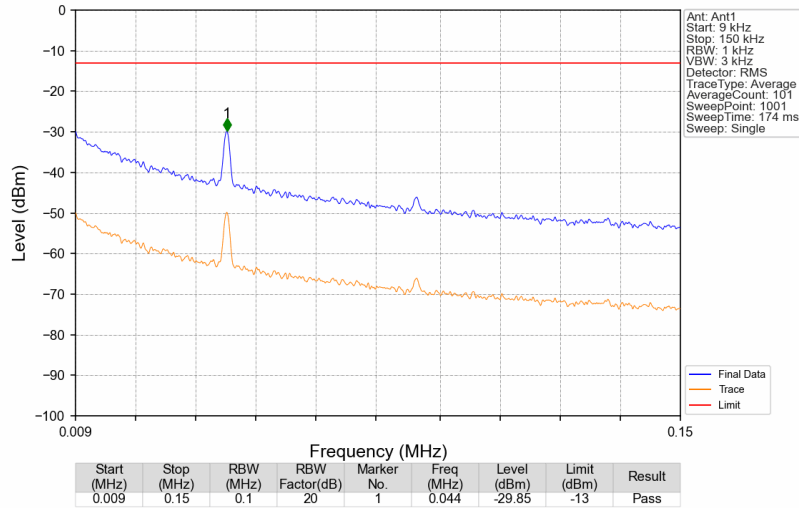
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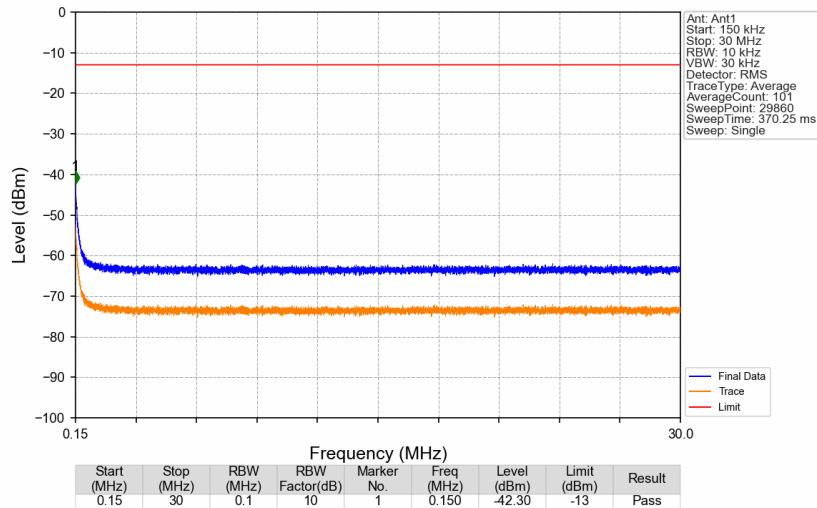
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### Band14\_767.9MHz\_GMSK\_SISO\_Ant1\_NTNV



### Band14\_767.9MHz\_GMSK\_SISO\_Ant1\_NTNV



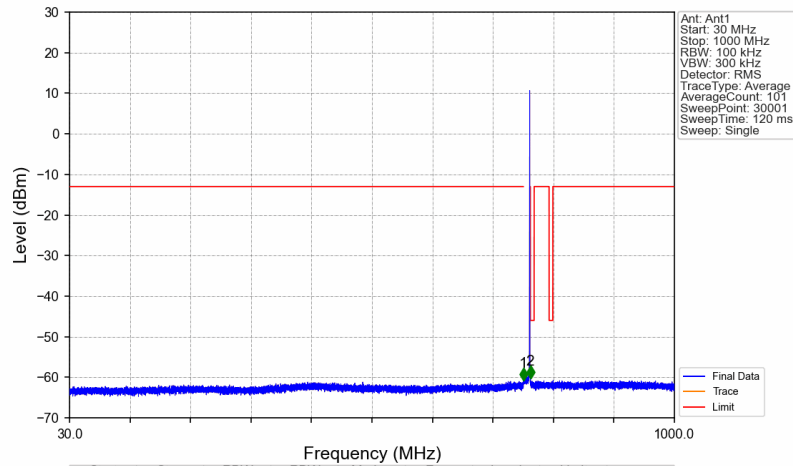
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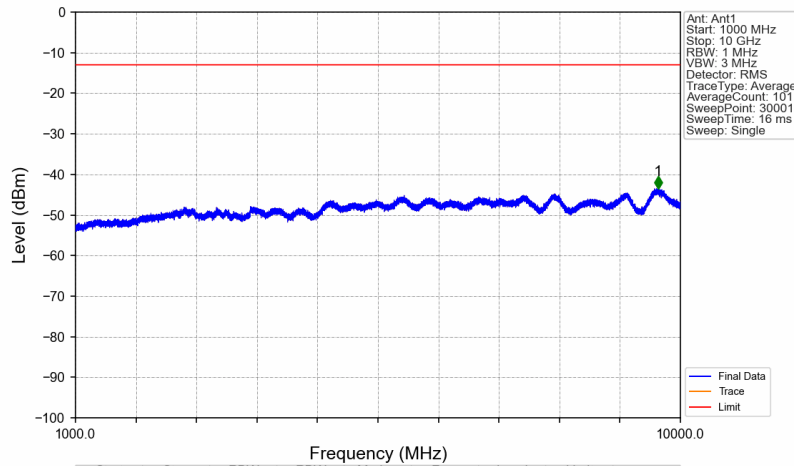
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### Band14\_767.9MHz\_GMSK\_SISO\_Ant1\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
30	757.9	0.1	0	1	757.662	-60.85	-13	Pass
757.9	769	0.1	0	/	/	/	/	/
769	1000	0.1	0	2	769.043	-60.34	-46	Pass

### Band14\_767.9MHz\_GMSK\_SISO\_Ant1\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1000	10000	1	0	1	9670.600	-43.53	-13	Pass



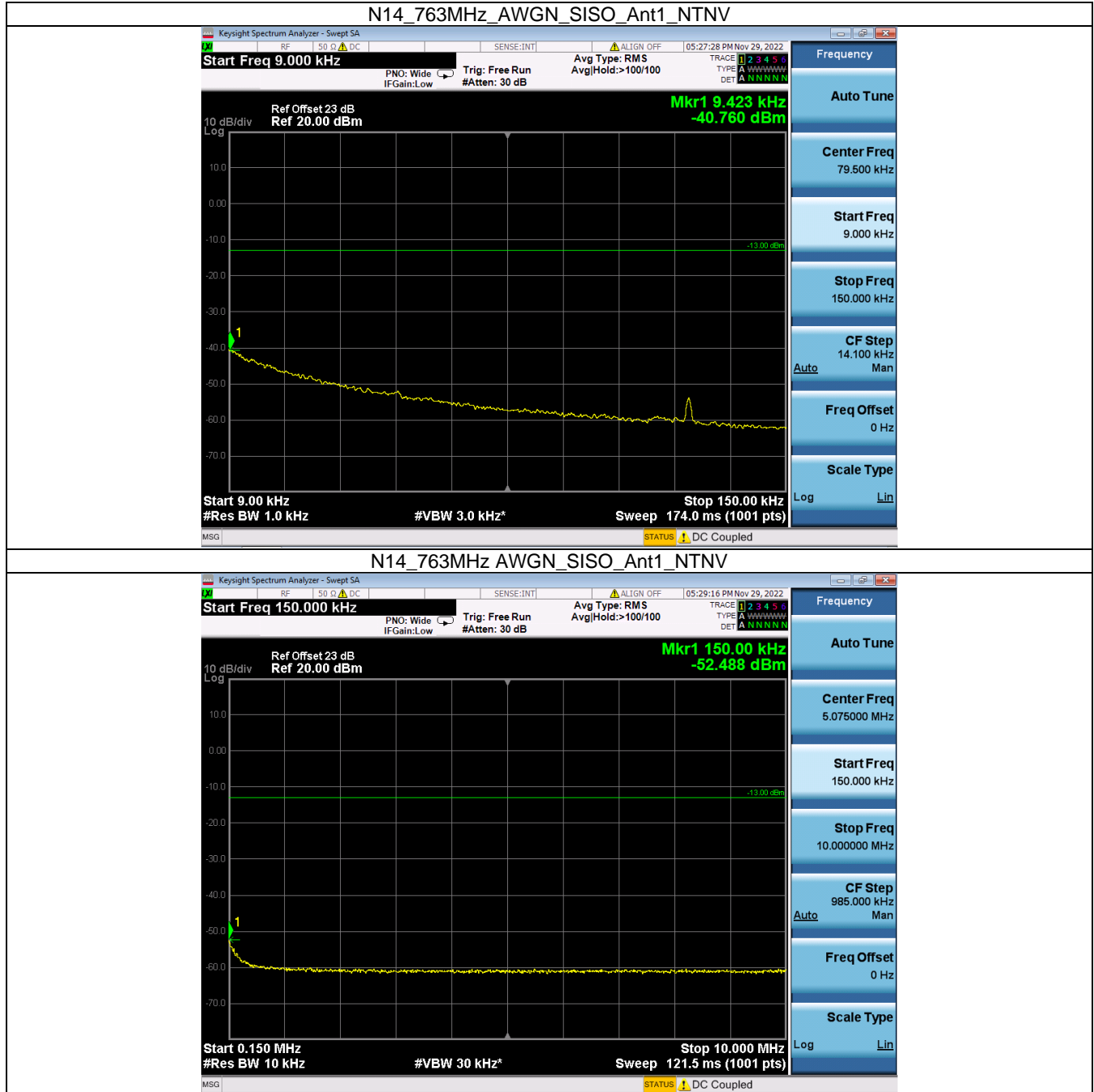
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For 5G NR N14



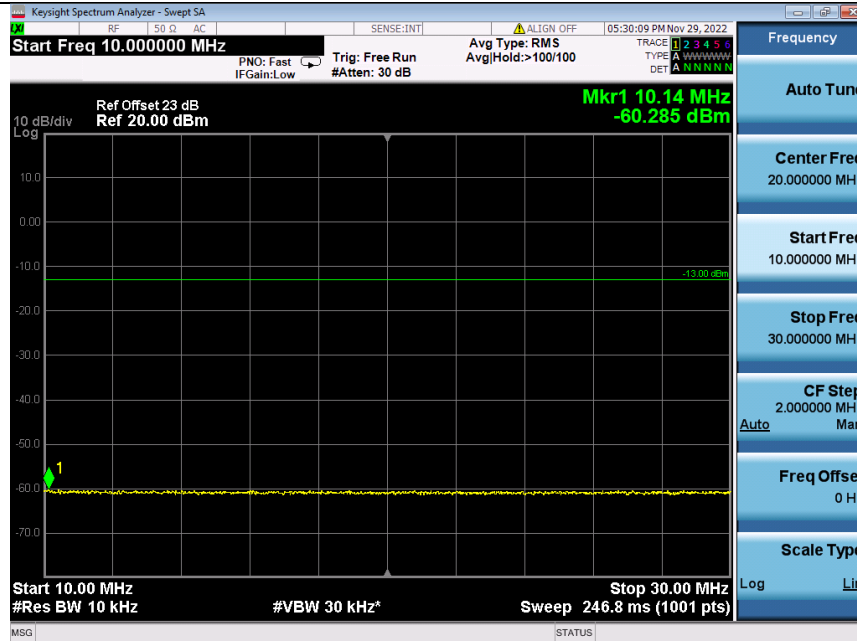
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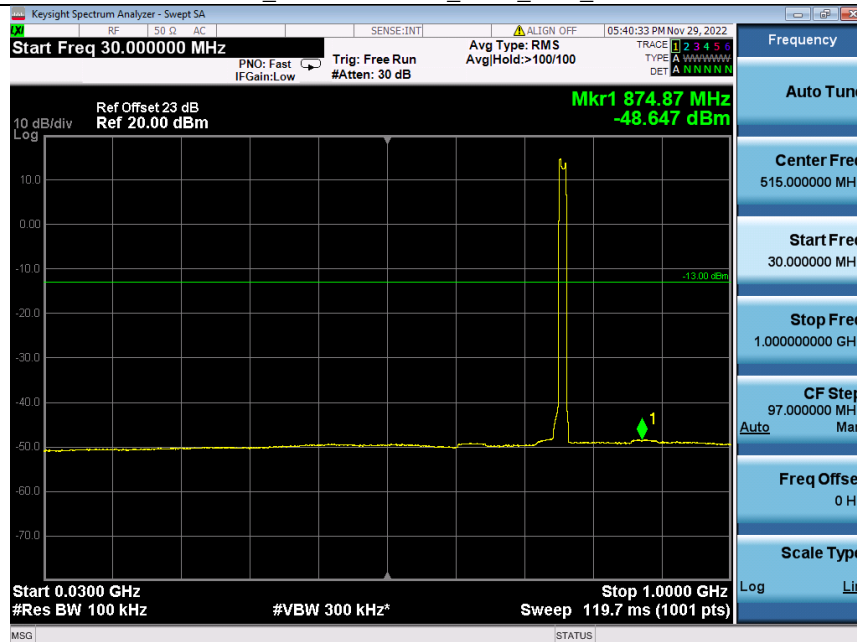
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## N14\_763MHz AWGN\_SISO\_Ant1\_NTNV



## N14\_763MHz AWGN\_SISO\_Ant1\_NTNV



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7. Frequency stability measurements

7.1 Band14\_Ant1

7.1.1 Test Result

Band: 14 / NTNV								
Signal			Temp (°C)	Voltage (VAC)	Freq. Error (Hz)	Tolerance (ppm)	Verdict	
Type	Level (dBm)	Frequency (MHz)						
CW	0.3	758.1	20	102	0	0.00	Pass	
				120	0	0.00	Pass	
				138	0	0.00	Pass	
			-40	120	0	0.00	Pass	
				-30	120	0	0.00	Pass
				-20	120	0	0.00	Pass
			-10	120	0	0.00	Pass	
				0	120	0	0.00	Pass
				10	120	0	0.00	Pass
			30	120	0	0.00	Pass	
				40	120	0	0.00	Pass
				55	120	0	0.00	Pass
		763	20	102	0	0.00	Pass	
				120	0	0.00	Pass	
				138	0	0.00	Pass	
			-40	120	0	0.00	Pass	
				-30	120	0	0.00	Pass
				-20	120	0	0.00	Pass
			-10	120	0	0.00	Pass	
				0	120	0	0.00	Pass
				10	120	0	0.00	Pass
			30	120	0	0.00	Pass	
				40	120	0	0.00	Pass
				55	120	0	0.00	Pass
		767.9	20	102	0	0.00	Pass	
				120	0	0.00	Pass	
				138	0	0.00	Pass	
			-40	120	0	0.00	Pass	
				-30	120	0	0.00	Pass
				-20	120	0	0.00	Pass
-10	120		0	0.00	Pass			
	0		120	0	0.00	Pass		
	10		120	0	0.00	Pass		
30	120		0	0.00	Pass			
	40		120	0	0.00	Pass		
	55		120	0	0.00	Pass		



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8. Mask

8.1 Band14\_Ant1

8.1.1 Test Result

For LTE Band 14



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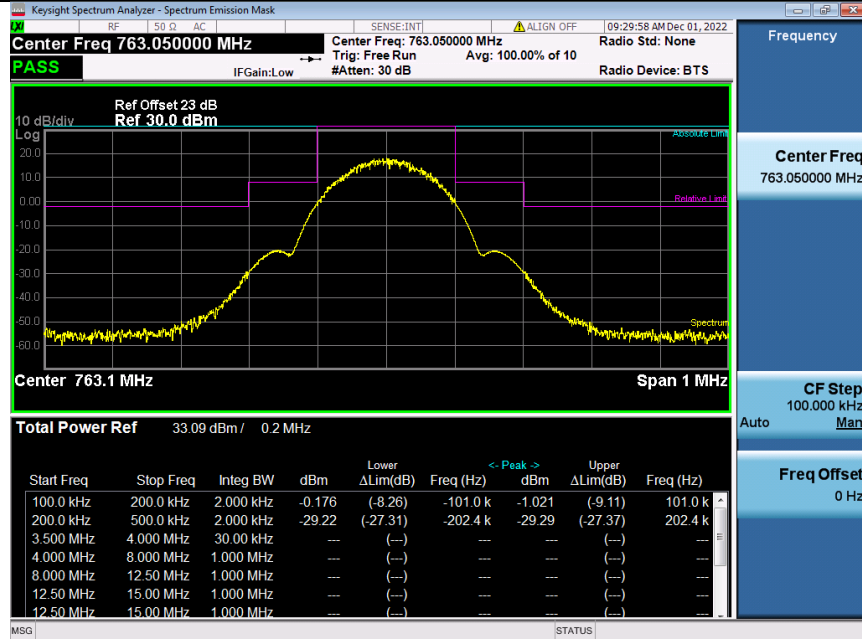
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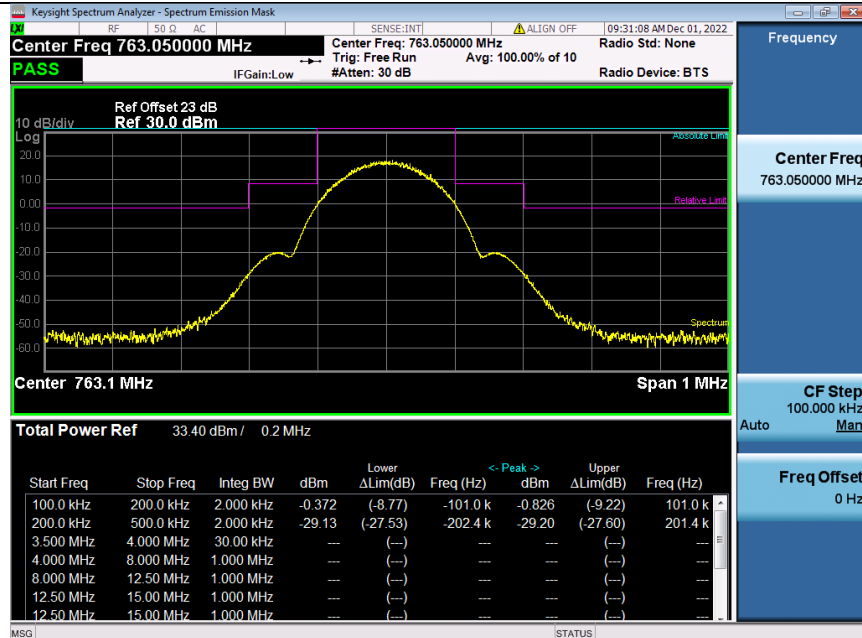
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## Band14\_763.1MHz\_GMSK-AGC\_SISO\_Ant1\_NTNV



## Band14\_763.1MHz\_GMSK-AGC+3\_SISO\_Ant1\_NTNV



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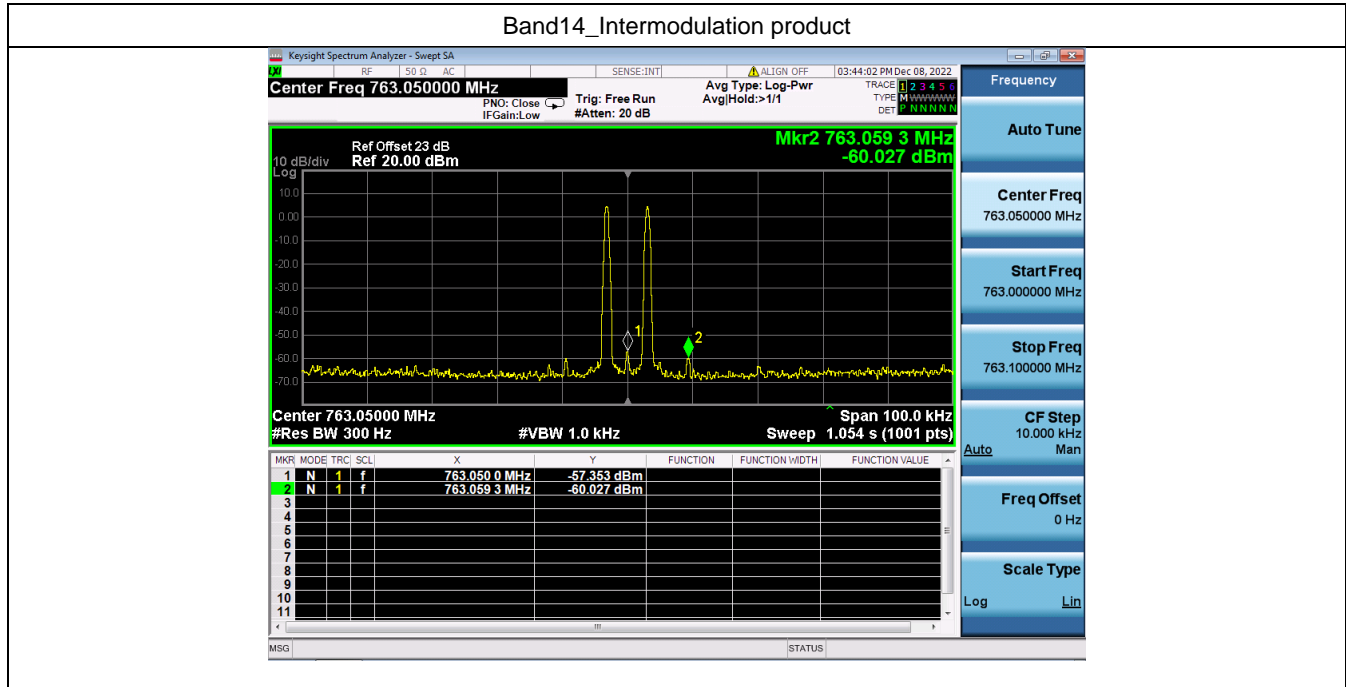
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## 9.Noise/emission at Antenna Terminal

### 9.1 Band14\_Ant1

#### 9.1.1 Test Result

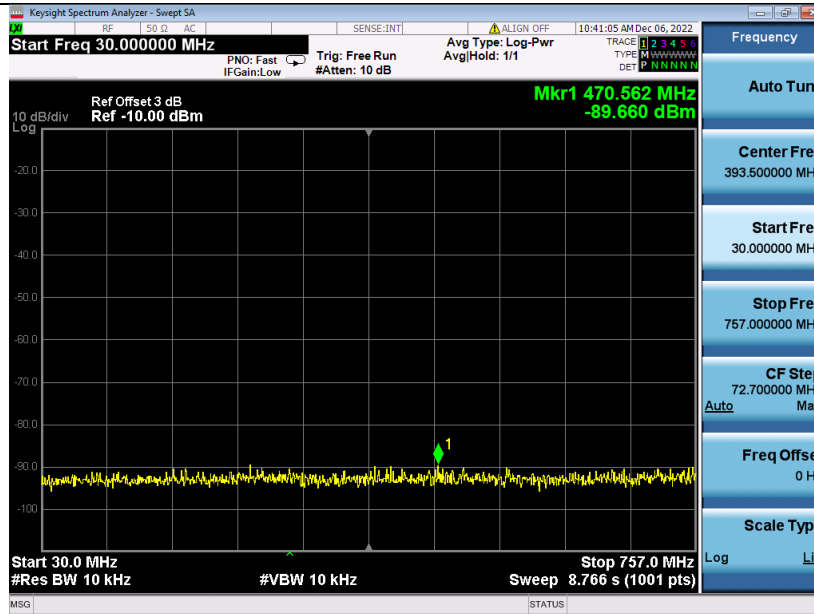


**Remark:**  
 The antenna gain of this device in band 14 is 12dBi.  
 ERP = EIRP - 2.15dB  
 The conducted max intermodulation product is -57.353dBm/300Hz = -42.124dBm/10kHz, ERP of intermodulation product is -42.124dBm/10kHz + 12dBi -2.15dB = -32.274dBm/10kHz  
 Applicant must use good engineering practice to make sure that the ERP of intermodulation products should not exceed the level -30dBm in 10kHz measurement bandwidth.

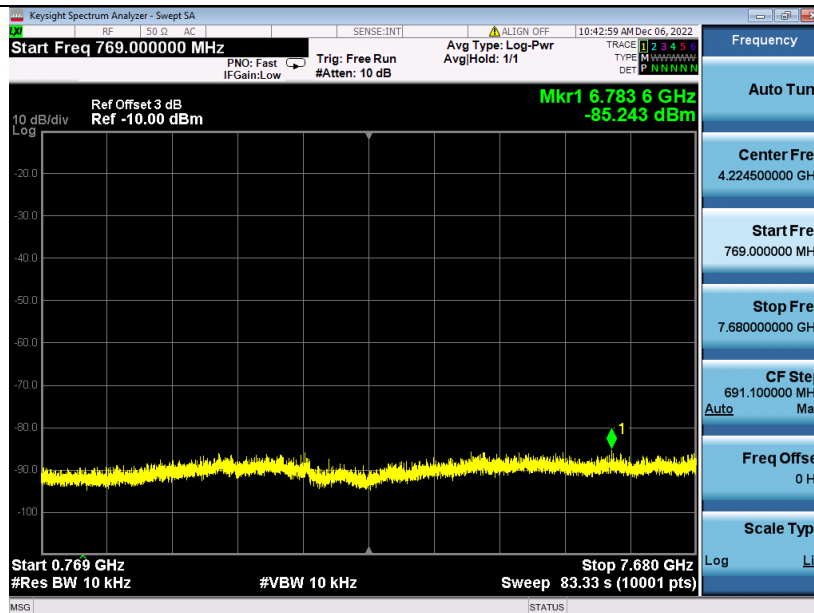


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Band14\_ Noise outside of the passband



Band14\_ Noise outside of the passband



Remark:

The antenna gain of this device in band 14 is 12dBi.

ERP = EIRP - 2.15dB

The conducted max. noise on spectrum more than 1MHz outside of the passband is -85.243dBm/k10Hz, ERP of noise on spectrum more than 1MHz outside of the passband is -85.243dBm/10kHz + 12dBi -2.15dB = -75.393dBm/10kHz.

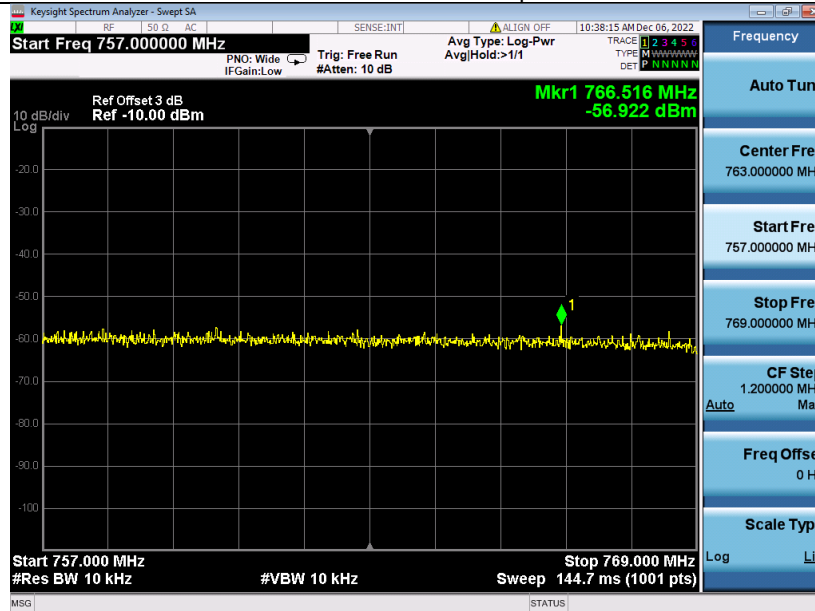
Applicant must use good engineering practice to make sure that the ERP of noise on spectrum more than 1MHz outside of the passband should not exceed the level -70dBm in 10kHz measurement bandwidth.



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Band14\_ Noise within of the passband



Remark:

The antenna gain of this device in band 14 is 12dBi.

ERP = EIRP - 2.15dB

The conducted max. noise on spectrum within the passband is -56.922dBm/10kHz, ERP of noise on spectrum within the passband is -56.922dBm/10kHz + 12dBi -2.15dB = -47.072 dBm/10kHz.

Applicant must use good engineering practice to make sure that the ERP of noise within of the passband should not exceed the level -43dBm in 10kHz measurement bandwidth



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## 10. Radiated Spurious Emissions

### 10.1 Band14\_Ant1

#### 10.1.1 Test Result

For LTE Band 14

AWGN_Low channel					
Frequency	Spurious Emission Polarization and Level		Limit	Over limit	Result
	MHz	polarization			
385.0	Horizontal	-67.10	-13	-54.10	pass
573.5	Horizontal	-63.33	-13	-50.33	pass
926.6	Horizontal	-59.15	-13	-46.15	pass
1367.6	Horizontal	-57.46	-13	-44.46	pass
2769.3	Horizontal	-52.04	-13	-39.04	pass
6298.7	Horizontal	-49.12	-13	-36.12	pass
391.9	Vertical	-69.24	-13	-56.24	pass
606.1	Vertical	-61.50	-13	-48.50	pass
942.0	Vertical	-58.06	-13	-45.06	pass
1360.8	Vertical	-61.60	-13	-48.60	pass
2769.9	Vertical	-53.42	-13	-40.42	pass
6282.2	Vertical	-50.96	-13	-37.96	pass

AWGN_Middle channel					
Frequency	Spurious Emission Polarization and Level		Limit	Over limit	Result
	MHz	polarization			
373.6	Horizontal	-67.56	-13	-54.56	pass
595.5	Horizontal	-65.94	-13	-52.94	pass
968.5	Horizontal	-58.19	-13	-45.19	pass
1370.1	Horizontal	-58.39	-13	-45.39	pass
2747.7	Horizontal	-56.32	-13	-43.32	pass
6279.5	Horizontal	-49.37	-13	-36.37	pass
387.2	Vertical	-67.87	-13	-54.87	pass
581.0	Vertical	-65.54	-13	-52.54	pass
944.6	Vertical	-56.38	-13	-43.38	pass
1325.7	Vertical	-60.82	-13	-47.82	pass
2732.2	Vertical	-52.09	-13	-39.09	pass
6285.0	Vertical	-51.57	-13	-38.57	pass

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AWGN_High channel					
Frequency	Spurious Emission Polarization and Level		Limit	Over limit	Result
	MHz	polarization			
396.1	Horizontal	-67.04	-13	-54.04	pass
601.1	Horizontal	-62.90	-13	-49.90	pass
934.1	Horizontal	-59.06	-13	-46.06	pass
1335.5	Horizontal	-58.40	-13	-45.40	pass
2762.4	Horizontal	-55.95	-13	-42.95	pass
6323.2	Horizontal	-47.16	-13	-34.16	pass
364.2	Vertical	-66.72	-13	-53.72	pass
575.5	Vertical	-61.49	-13	-48.49	pass
928.0	Vertical	-56.99	-13	-43.99	pass
1358.2	Vertical	-56.57	-13	-43.57	pass
2770.7	Vertical	-56.78	-13	-43.78	pass
6323.9	Vertical	-48.08	-13	-35.08	pass

GMSK_Low channel					
Frequency	Spurious Emission Polarization and Level		Limit	Over limit	Result
	MHz	polarization			
380.1	Horizontal	-71.09	-13	-58.09	pass
574.9	Horizontal	-64.89	-13	-51.89	pass
928.6	Horizontal	-58.58	-13	-45.58	pass
1370.1	Horizontal	-61.52	-13	-48.52	pass
2755.7	Horizontal	-54.90	-13	-41.90	pass
6310.3	Horizontal	-46.02	-13	-33.02	pass
355.8	Vertical	-69.95	-13	-56.95	pass
574.5	Vertical	-65.08	-13	-52.08	pass
970.7	Vertical	-60.73	-13	-47.73	pass
1357.7	Vertical	-58.87	-13	-45.87	pass
2756.5	Vertical	-53.18	-13	-40.18	pass
6323.2	Vertical	-50.14	-13	-37.14	pass



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GMSK_Middle channel					
Frequency	Spurious Emission Polarization and Level		Limit	Over limit	Result
	MHz	polarization			
389.7	Horizontal	-70.49	-13	-57.49	pass
572.5	Horizontal	-64.08	-13	-51.08	pass
954.6	Horizontal	-61.32	-13	-48.32	pass
1334.8	Horizontal	-58.00	-13	-45.00	pass
2767.6	Horizontal	-53.40	-13	-40.40	pass
6317.3	Horizontal	-49.82	-13	-36.82	pass
372.7	Vertical	-67.20	-13	-54.20	pass
586.6	Vertical	-61.07	-13	-48.07	pass
929.9	Vertical	-59.85	-13	-46.85	pass
1354.7	Vertical	-60.07	-13	-47.07	pass
2742.1	Vertical	-52.37	-13	-39.37	pass
6282.7	Vertical	-46.68	-13	-33.68	pass

GMSK_High channel					
Frequency	Spurious Emission Polarization and Level		Limit	Over limit	Result
	MHz	polarization			
392.3	Horizontal	-71.91	-13	-58.91	pass
572.4	Horizontal	-64.94	-13	-51.94	pass
946.5	Horizontal	-59.74	-13	-46.74	pass
1346.0	Horizontal	-61.48	-13	-48.48	pass
2773.3	Horizontal	-52.07	-13	-39.07	pass
6316.6	Horizontal	-50.68	-13	-37.68	pass
396.8	Vertical	-67.49	-13	-54.49	pass
586.3	Vertical	-62.78	-13	-49.78	pass
970.4	Vertical	-58.05	-13	-45.05	pass
1332.0	Vertical	-59.99	-13	-46.99	pass
2742.6	Vertical	-52.72	-13	-39.72	pass
6313.6	Vertical	-49.40	-13	-36.40	pass



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For 5GNR N14

AWGN_Middle channel					
Frequency	Spurious Emission Polarization and Level		Limit	Over limit	Result
	MHz	polarization	dBm	dB	
381.1	Horizontal	-68.84	-13	-55.84	pass
578.1	Horizontal	-64.85	-13	-51.85	pass
956.0	Horizontal	-60.47	-13	-47.47	pass
1326.3	Horizontal	-59.64	-13	-46.64	pass
2731.9	Horizontal	-54.59	-13	-41.59	pass
6279.4	Horizontal	-46.56	-13	-33.56	pass
357.8	Vertical	-71.62	-13	-58.62	pass
596.6	Vertical	-63.89	-13	-50.89	pass
958.5	Vertical	-60.49	-13	-47.49	pass
1331.6	Vertical	-57.04	-13	-44.04	pass
2757.4	Vertical	-52.43	-13	-39.43	pass
6322.2	Vertical	-50.02	-13	-37.02	pass



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