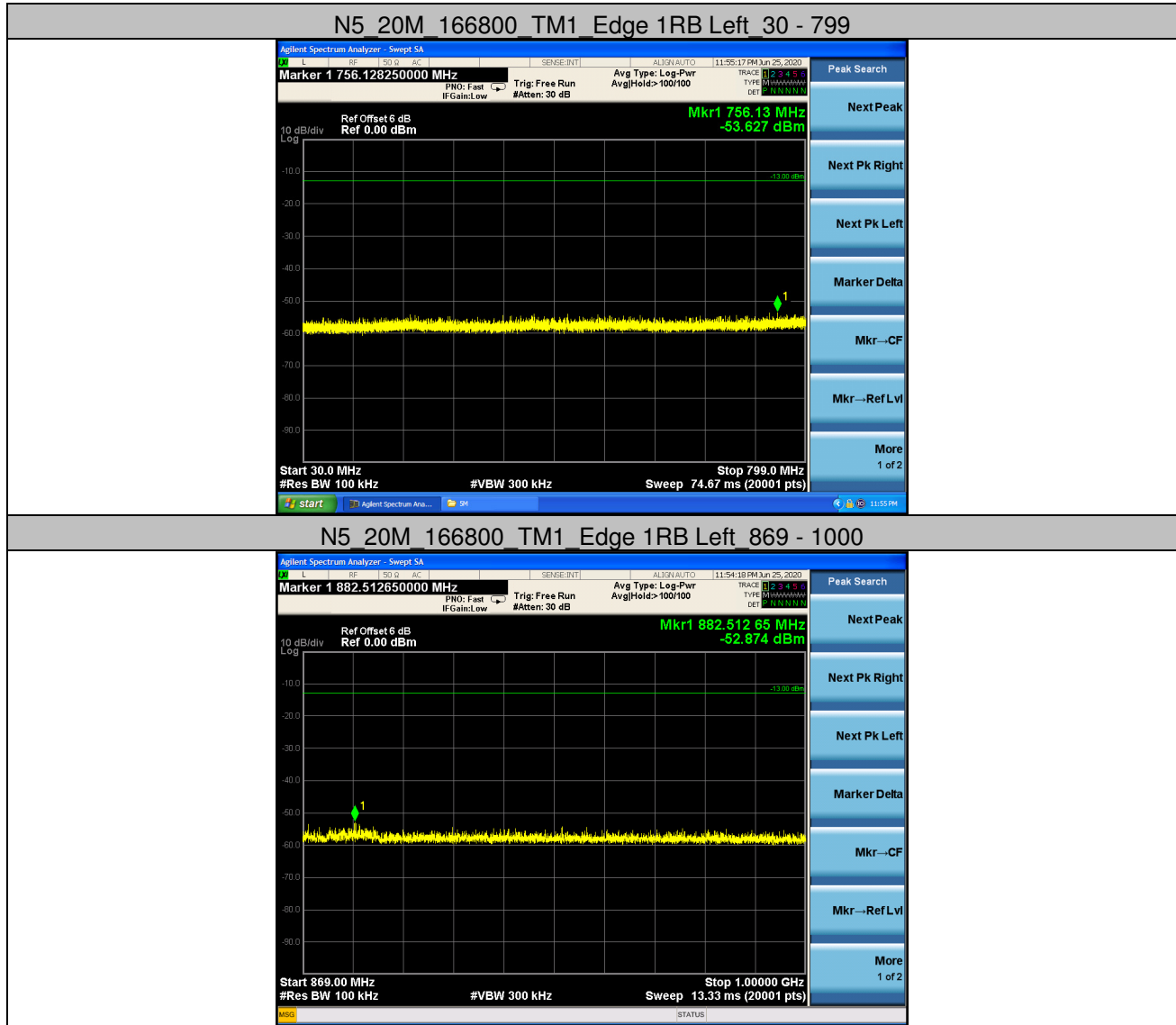


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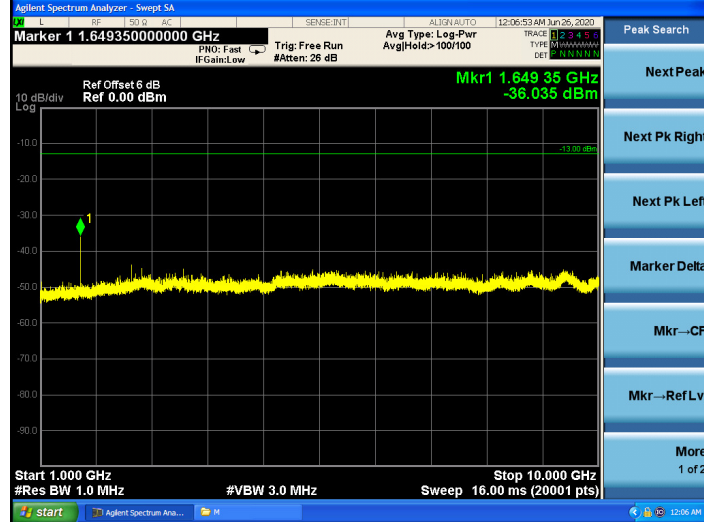
## 6 Spurious Emission at Antenna Terminal

REMARK: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of  $< RBW/2$  so that narrow Band signals are not lost between frequency bins. As to the present test item, the "Measurement Points =  $k * (Span / RBW)$ " with  $k$  between 4 and 5, which results in an acceptable level error of less than 0.5 dB.

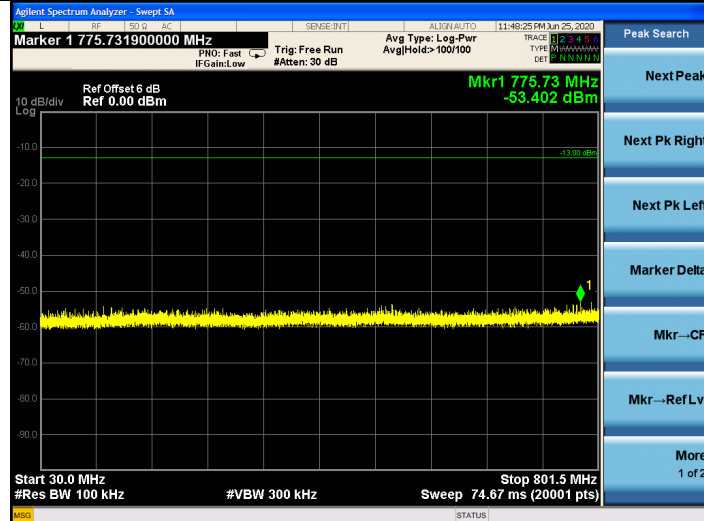
### 6.1 Test Plots



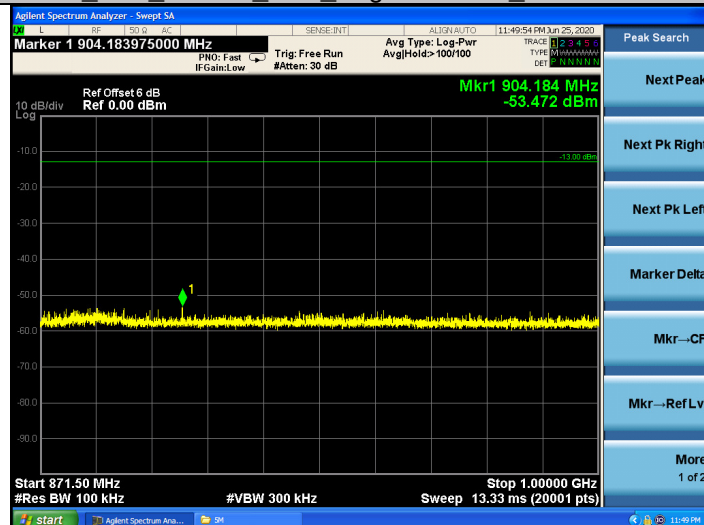
**N5 20M 166800 TM1 Edge 1RB Left 1000 - 10000**



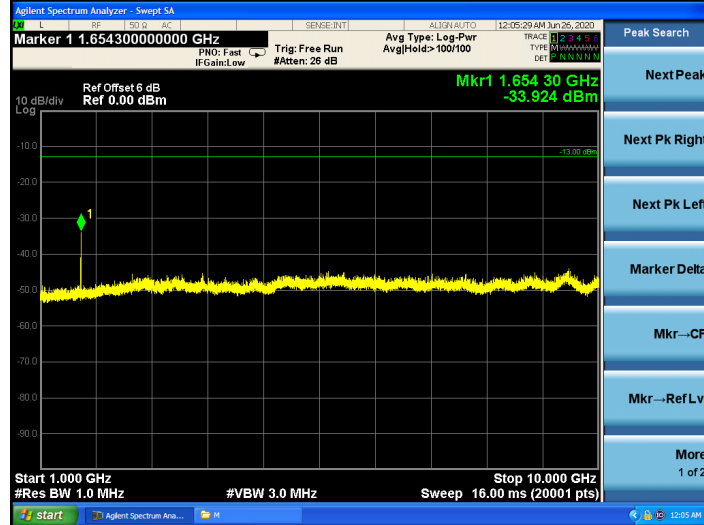
**N5 20M 167300 TM1 Edge 1RB Left 30 - 801.5**



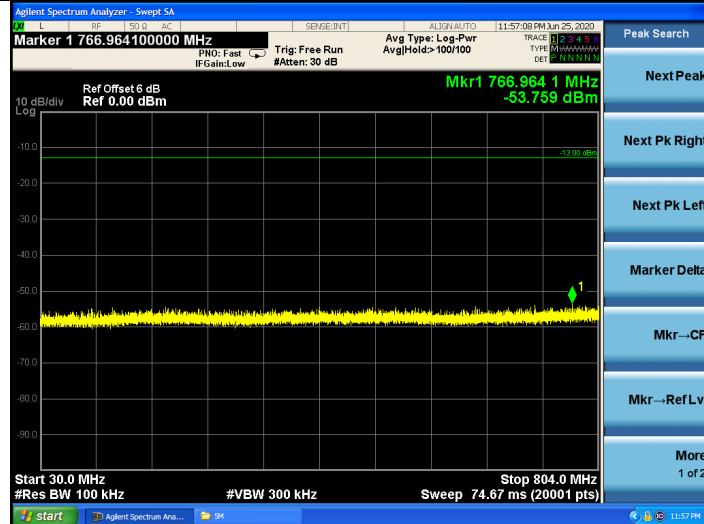
**N5 20M 167300 TM1 Edge 1RB Left 871.5 - 1000**



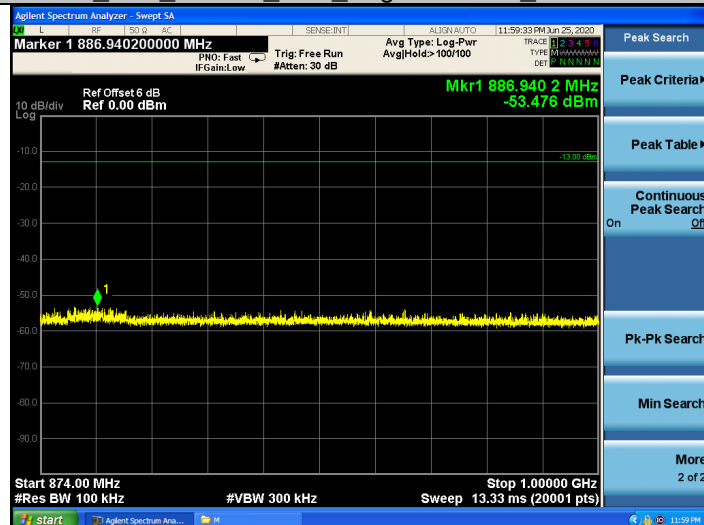
**N5\_20M\_167300\_TM1\_Edge\_1RB\_Left\_1000 - 10000**



**N5\_20M\_167800\_TM1\_Edge\_1RB\_Left\_30 - 804**

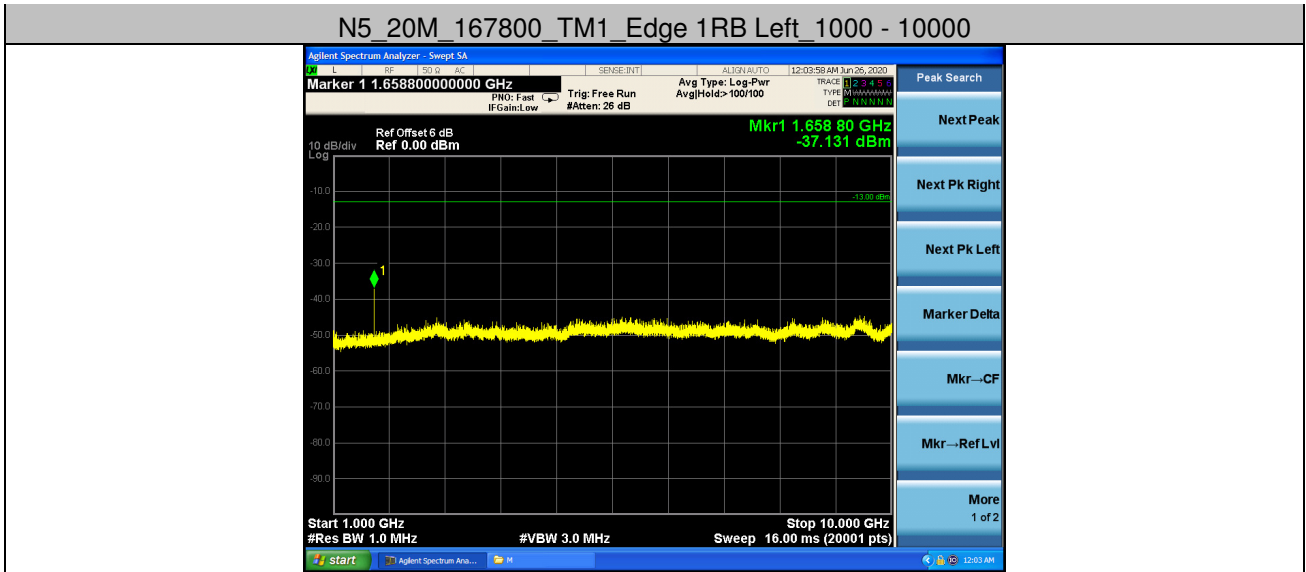


**N5\_20M\_167800\_TM1\_Edge\_1RB\_Left\_874 - 1000**



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## 7 Field Strength of Spurious Radiation

### 7.1 Test Band = EUTRA Band 7 + N5

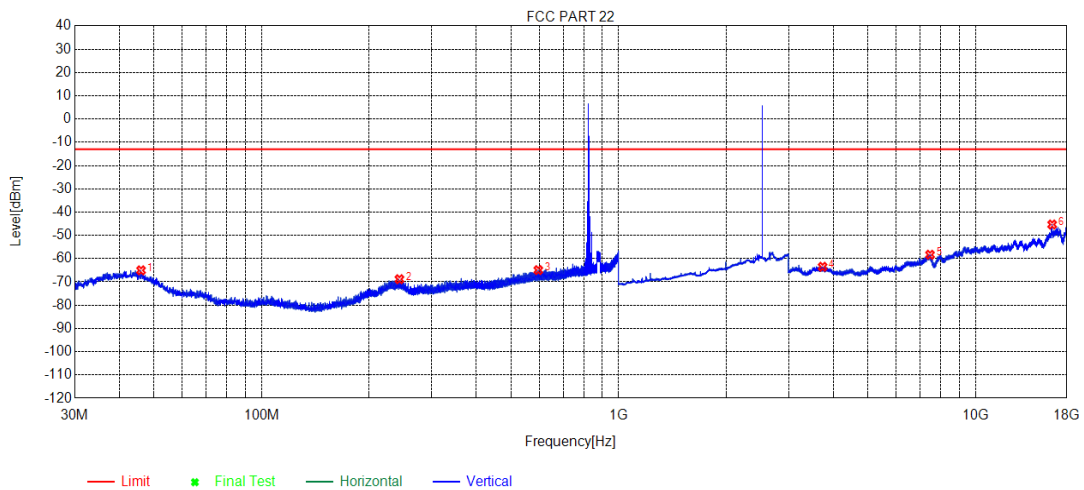
Ant1:

7.1.1 Test Mode = TM1

7.1.1.1 Test Channel = LCH

Band:	LTE B7+N5	Mode:	NSA
Channel:	21100+166800	State:	

#### Test Graph



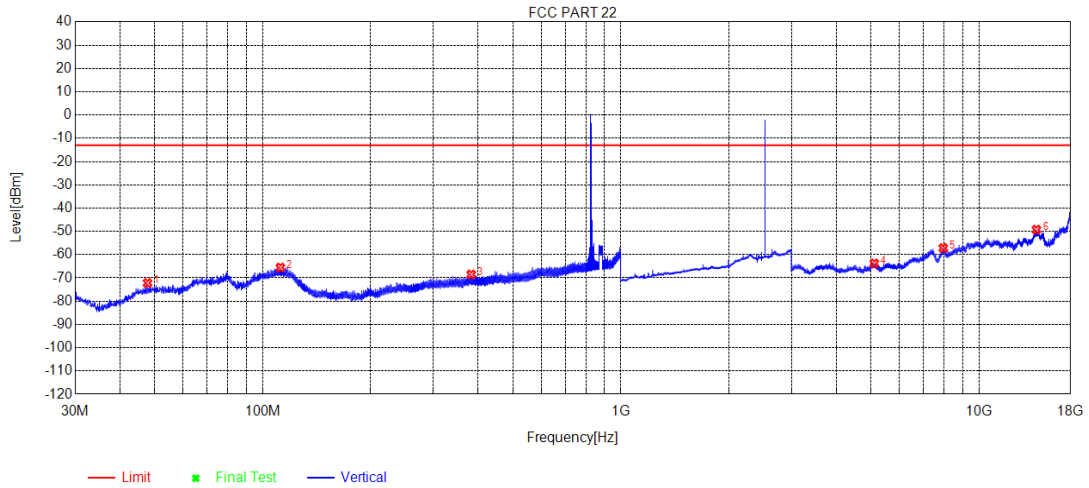
Suspected Data List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	46.0058	-71.46	-65.02	-13.00	52.02	6.44	Horizontal
2	243.5077	-71.55	-68.84	-13.00	55.84	2.71	Horizontal
3	596.3143	-72.47	-64.92	-13.00	51.92	7.55	Horizontal
4	3729.6292	-55.01	-63.49	-13.00	50.49	-8.48	Horizontal
5	7455.7782	-58.29	-58.32	-13.00	45.32	-0.03	Horizontal
6	16391.3357	-59.62	-45.33	-13.00	32.33	14.29	Horizontal



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Band:	LTE B7+N5	Mode:	NSA
Channel:	21100+166800	State:	

**Test Graph**



Suspected Data List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	47.7519	-70.51	-72.19	-13.00	59.19	-1.68	Vertical
2	112.1631	-71.77	-65.55	-13.00	52.55	6.22	Vertical
3	382.5156	-71.77	-68.52	-13.00	55.52	3.25	Vertical
4	5103.6841	-56.79	-63.77	-13.00	50.77	-6.98	Vertical
5	7948.3979	-58.28	-57.18	-13.00	44.18	1.10	Vertical
6	14463.4585	-61.46	-49.25	-13.00	36.25	12.21	Vertical

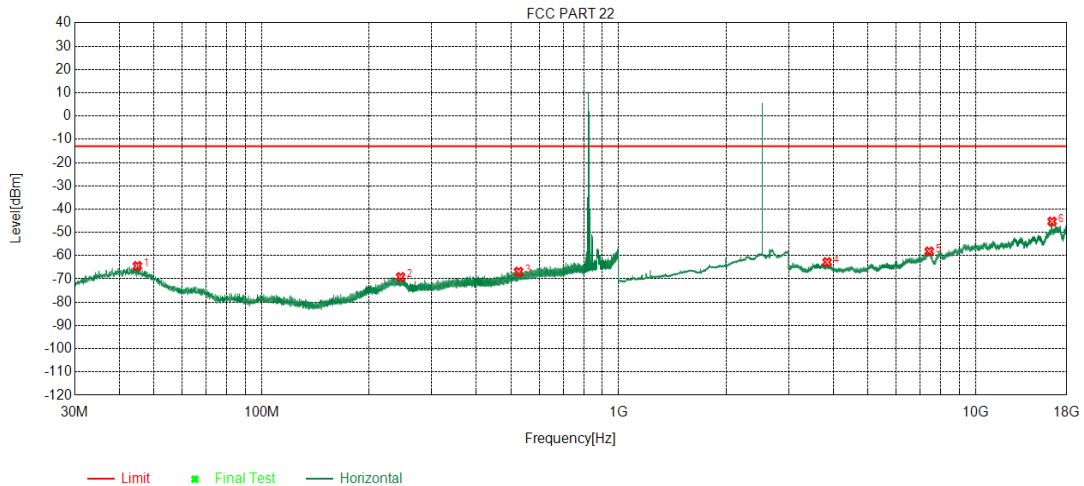


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**7.1.1.2 Test Channel = MCH**

Band:	LTE B7+N5	Mode:	NSA
Channel:	21100+167300	State:	

**Test Graph**



Suspected Data List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	44.9387	-71.44	-64.42	-13.00	51.42	7.02	Horizontal
2	245.3508	-71.83	-69.16	-13.00	56.16	2.67	Horizontal
3	525.2098	-72.73	-66.90	-13.00	53.90	5.83	Horizontal
4	3839.4336	-54.60	-62.78	-13.00	49.78	-8.18	Horizontal
5	7417.9767	-58.13	-58.18	-13.00	45.18	-0.05	Horizontal
6	16387.7355	-59.57	-45.34	-13.00	32.34	14.23	Horizontal

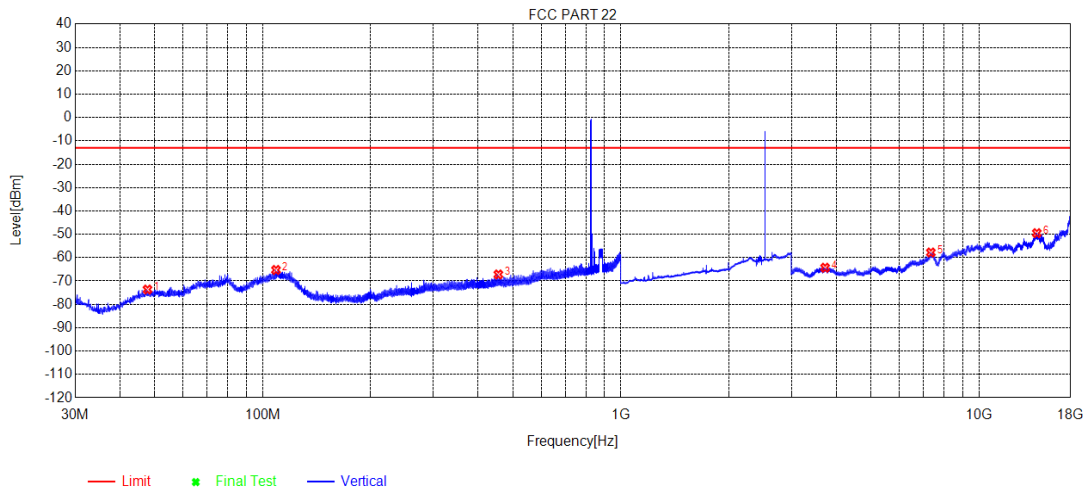


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Band:	LTE B7+N5	Mode:	NSA
Channel:	21100+167300	State:	

**Test Graph**



Suspected Data List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	47.7519	-71.96	-73.64	-13.00	60.64	-1.68	Vertical
2	109.0590	-71.45	-65.26	-13.00	52.26	6.19	Vertical
3	455.3663	-71.38	-67.19	-13.00	54.19	4.19	Vertical
4	3719.4288	-55.03	-64.30	-13.00	51.30	-9.27	Vertical
5	7339.9736	-58.30	-57.79	-13.00	44.79	0.51	Vertical
6	14503.0601	-61.97	-49.49	-13.00	36.49	12.48	Vertical

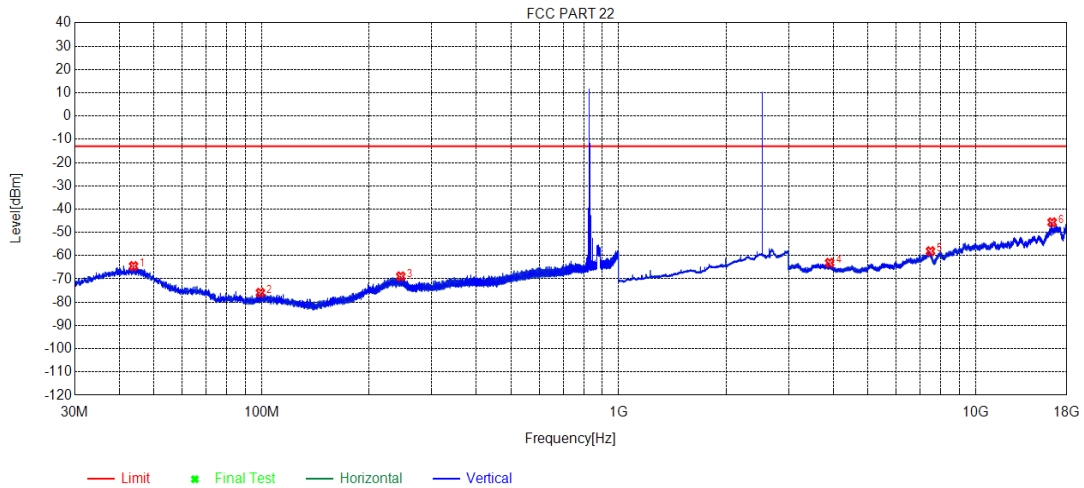


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**7.1.1.3 Test Channel = HCH**

Band:	LTE B7+N5	Mode:	NSA
Channel:	21100+167800	State:	

**Test Graph**



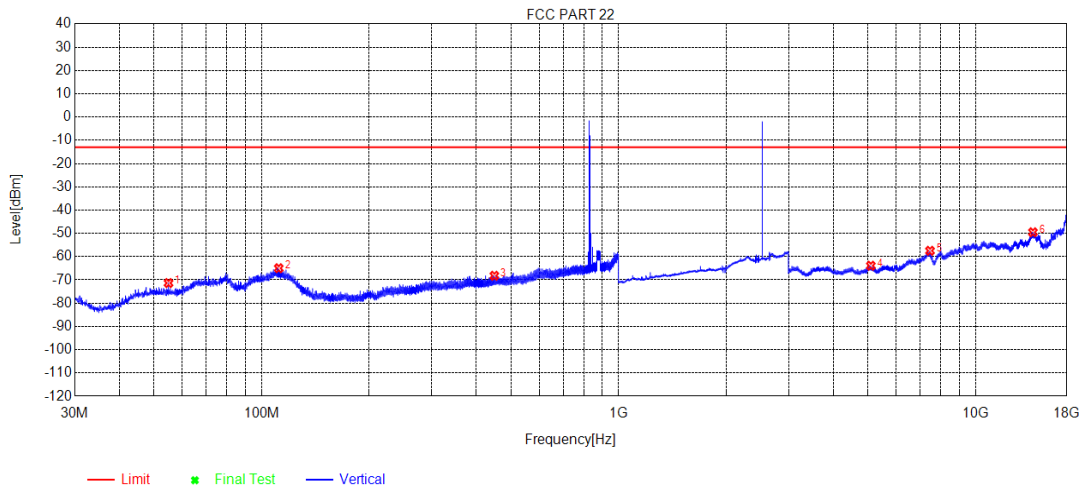
Suspected Data List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	43.8232	-71.43	-64.47	-13.00	51.47	6.96	Horizontal
2	99.3585	-71.32	-75.92	-13.00	62.92	-4.60	Horizontal
3	245.6418	-71.56	-68.89	-13.00	55.89	2.67	Horizontal
4	3902.4361	-55.03	-63.07	-13.00	50.07	-8.04	Horizontal
5	7479.1792	-58.05	-58.06	-13.00	45.06	-0.01	Horizontal
6	16388.3355	-59.91	-45.67	-13.00	32.67	14.24	Horizontal



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Band:	LTE B7+N5	Mode:	NSA
Channel:	21100+167800	State:	

**Test Graph**



Suspected Data List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	54.9302	-69.83	-71.34	-13.00	58.34	-1.51	Vertical
2	111.8236	-71.22	-64.97	-13.00	51.97	6.25	Vertical
3	449.1095	-72.21	-68.20	-13.00	55.20	4.01	Vertical
4	5091.6837	-56.91	-63.90	-13.00	50.90	-6.99	Vertical
5	7456.3783	-57.77	-57.48	-13.00	44.48	0.29	Vertical
6	14479.0592	-61.86	-49.52	-13.00	36.52	12.34	Vertical



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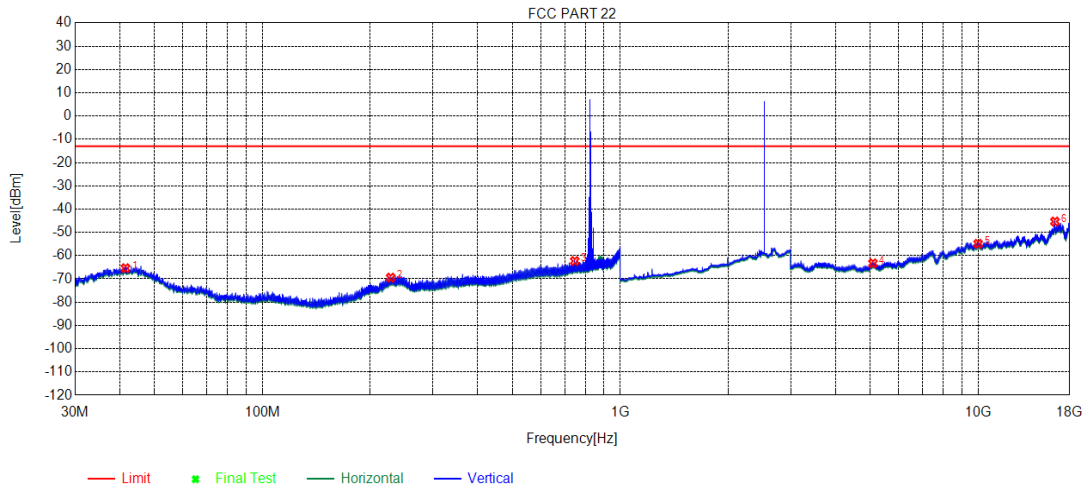
**Ant0:**

**7.1.2 Test Mode = TM1**

**7.1.2.1 Test Channel = LCH**

Band:	LTE B7+N5	Mode:	NSA
Channel:	21100+166800	State:	

**Test Graph**



Suspected Data List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	41.4951	-72.23	-65.39	-13.00	52.39	6.84	Horizontal
2	228.5204	-72.02	-69.46	-13.00	56.46	2.56	Horizontal
3	746.6718	-72.16	-62.31	-13.00	49.31	9.85	Horizontal
4	5083.8834	-56.60	-63.30	-13.00	50.30	-6.70	Horizontal
5	9996.2799	-60.47	-54.90	-13.00	41.90	5.57	Horizontal
6	16391.3357	-59.62	-45.33	-13.00	32.33	14.29	Horizontal

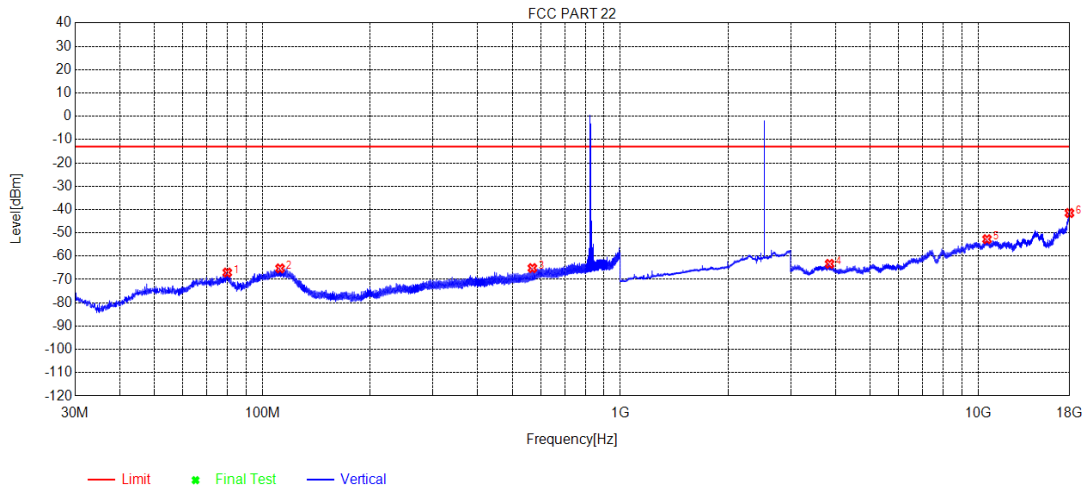


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Band:	LTE B7+N5	Mode:	NSA
Channel:	21100+166800	State:	

**Test Graph**



Suspected Data List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	79.8605	-69.13	-67.04	-13.00	54.04	2.09	Vertical
2	112.1631	-71.47	-65.25	-13.00	52.25	6.22	Vertical
3	568.5224	-71.21	-65.12	-13.00	52.12	6.09	Vertical
4	3847.2339	-54.55	-63.32	-13.00	50.32	-8.77	Vertical
5	10587.3035	-59.53	-52.72	-13.00	39.72	6.81	Vertical
6	17998.8000	-59.34	-41.49	-13.00	28.49	17.85	Vertical

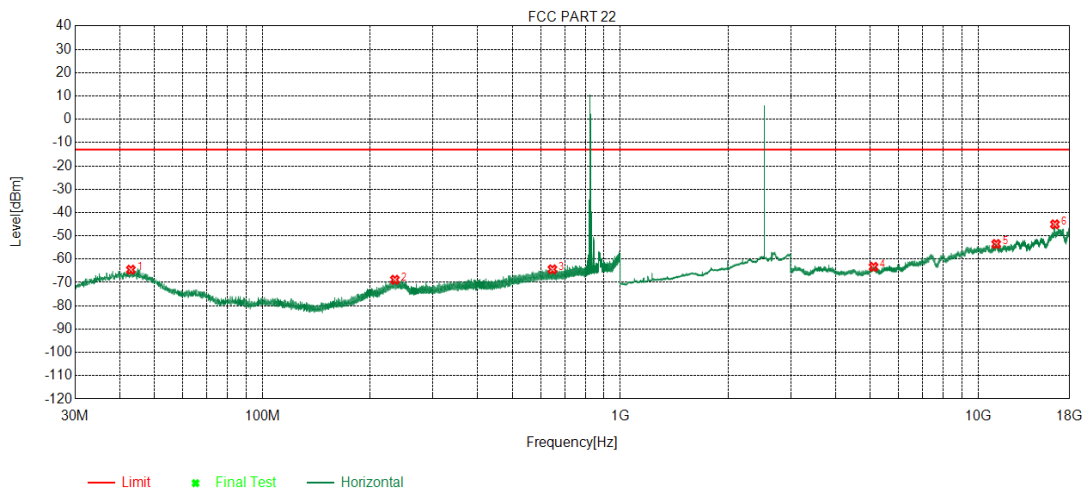


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**7.1.2.2 Test Channel = MCH**

Band:	LTE B7+N5	Mode:	NSA
Channel:	21100+167300	State:	

**Test Graph**



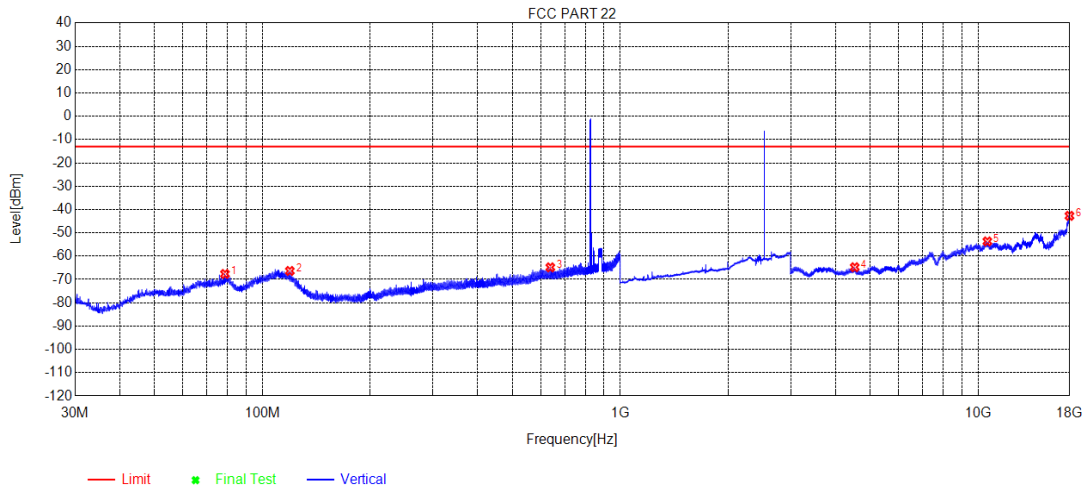
Suspected Data List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	42.9501	-71.42	-64.51	-13.00	51.51	6.91	Horizontal
2	234.7287	-71.64	-68.83	-13.00	55.83	2.81	Horizontal
3	646.7083	-72.21	-64.36	-13.00	51.36	7.85	Horizontal
4	5103.6841	-56.71	-63.32	-13.00	50.32	-6.61	Horizontal
5	11233.5293	-59.44	-53.49	-13.00	40.49	5.95	Horizontal
6	16387.7355	-59.27	-45.04	-13.00	32.04	14.23	Horizontal



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Band:	LTE B7+N5	Mode:	NSA
Channel:	21100+167300	State:	

**Test Graph**



Suspected Data List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	78.6964	-69.39	-67.63	-13.00	54.63	1.76	Vertical
2	119.4385	-71.92	-66.34	-13.00	53.34	5.58	Vertical
3	638.0749	-72.31	-64.80	-13.00	51.80	7.51	Vertical
4	4521.0608	-56.05	-64.74	-13.00	51.74	-8.69	Vertical
5	10611.3045	-60.40	-53.67	-13.00	40.67	6.73	Vertical
6	17996.9999	-60.51	-42.71	-13.00	29.71	17.80	Vertical

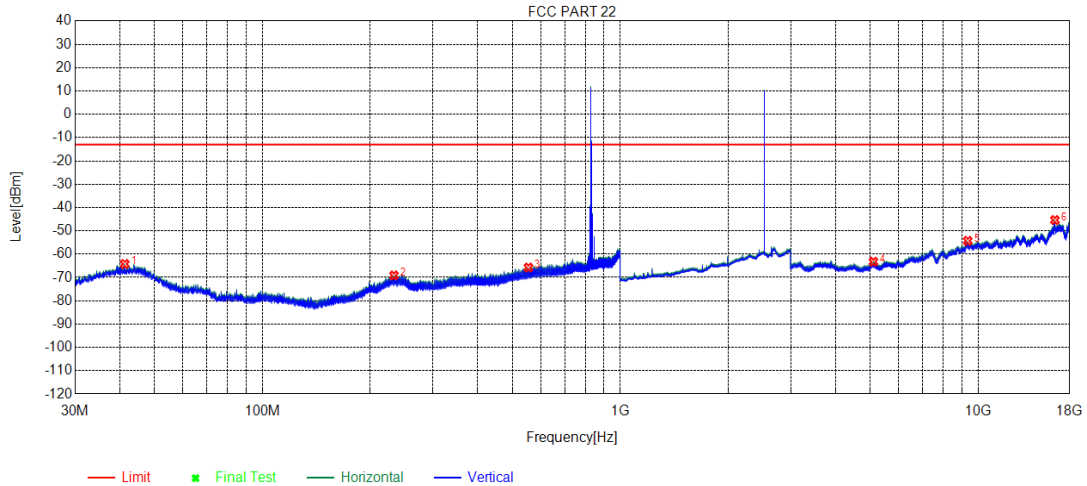


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**7.1.2.3 Test Channel = HCH**

Band:	LTE B7+N5	Mode:	NSA
Channel:	21100+167800	State:	

**Test Graph**



Suspected Data List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	41.3011	-71.04	-64.21	-13.00	51.21	6.83	Horizontal
2	233.3222	-71.94	-69.12	-13.00	56.12	2.82	Horizontal
3	554.2142	-72.24	-65.74	-13.00	52.74	6.50	Horizontal
4	5100.0840	-56.64	-63.24	-13.00	50.24	-6.60	Horizontal
5	9353.0541	-59.75	-54.31	-13.00	41.31	5.44	Horizontal
6	16388.3355	-59.61	-45.37	-13.00	32.37	14.24	Horizontal

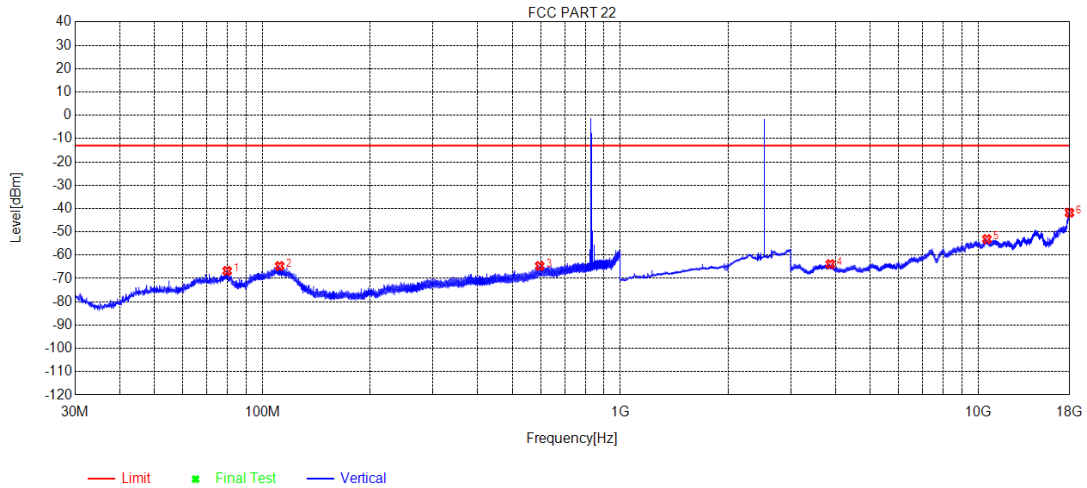


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Band:	LTE B7+N5	Mode:	NSA
Channel:	21100+166800	State:	

**Test Graph**



Suspected Data List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	79.8120	-68.83	-66.75	-13.00	53.75	2.08	Vertical
2	111.8236	-70.92	-64.67	-13.00	51.67	6.25	Vertical
3	596.0233	-72.07	-64.63	-13.00	51.63	7.44	Vertical
4	3865.2346	-55.10	-63.85	-13.00	50.85	-8.75	Vertical
5	10578.3031	-59.95	-53.09	-13.00	40.09	6.86	Vertical
6	17998.1999	-59.62	-41.79	-13.00	28.79	17.83	Vertical

**REMARK:**

1) only the worst case data had been displayed.



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## 8 Frequency Stability

### 8.1 Frequency Error VS. Voltage

NR Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage [Vdc]	Temperature(°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
N5	15KHz	20MHz	TM1	166800	Outer Full	VL	NT	-16.61	-0.019916	±2.5	PASS
N5	15KHz	20MHz	TM1	166800	Outer Full	VN	NT	-22.52	-0.027002	±2.5	PASS
N5	15KHz	20MHz	TM1	166800	Outer Full	VH	NT	-15.64	-0.018753	±2.5	PASS
N5	15KHz	20MHz	TM1	167300	Outer Full	VL	NT	5.08	0.006073	±2.5	PASS
N5	15KHz	20MHz	TM1	167300	Outer Full	VN	NT	-15.46	-0.018482	±2.5	PASS
N5	15KHz	20MHz	TM1	167300	Outer Full	VH	NT	-10.56	-0.012624	±2.5	PASS
N5	15KHz	20MHz	TM1	167800	Outer Full	VL	NT	-13.98	-0.016663	±2.5	PASS
N5	15KHz	20MHz	TM1	167800	Outer Full	VN	NT	-16.18	-0.019285	±2.5	PASS
N5	15KHz	20MHz	TM1	167800	Outer Full	VH	NT	-18.34	-0.021859	±2.5	PASS
N5	15KHz	20MHz	TM5	166800	Outer Full	VL	NT	-16.54	-0.019832	±2.5	PASS
N5	15KHz	20MHz	TM5	166800	Outer Full	VN	NT	-15.46	-0.018537	±2.5	PASS
N5	15KHz	20MHz	TM5	166800	Outer Full	VH	NT	10.46	0.012542	±2.5	PASS
N5	15KHz	20MHz	TM5	167300	Outer Full	VL	NT	8.17	0.009767	±2.5	PASS
N5	15KHz	20MHz	TM5	167300	Outer Full	VN	NT	9.64	0.011524	±2.5	PASS
N5	15KHz	20MHz	TM5	167300	Outer Full	VH	NT	7.46	0.008918	±2.5	PASS
N5	15KHz	20MHz	TM5	167800	Outer Full	VL	NT	-13.34	-0.015900	±2.5	PASS
N5	15KHz	20MHz	TM5	167800	Outer Full	VN	NT	-12.37	-0.014744	±2.5	PASS
N5	15KHz	20MHz	TM5	167800	Outer Full	VH	NT	-13.79	-0.016436	±2.5	PASS

### 8.2 Frequency Error VS. Temperature

NR Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage [Vdc]	Temperature(°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
N5	15KHz	20MHz	TM1	166800	Outer Full	VN	-30	-20.37	-0.024424	±2.5	PASS
N5	15KHz	20MHz	TM1	166800	Outer Full	VN	-20	-5.07	-0.006079	±2.5	PASS
N5	15KHz	20MHz	TM1	166800	Outer Full	VN	-10	14.43	0.017302	±2.5	PASS
N5	15KHz	20MHz	TM1	166800	Outer Full	VN	0	-15.46	-0.018537	±2.5	PASS
N5	15KHz	20MHz	TM1	166800	Outer Full	VN	10	-13.46	-0.016139	±2.5	PASS
N5	15KHz	20MHz	TM1	166800	Outer Full	VN	20	-15.93	-0.019101	±2.5	PASS
N5	15KHz	20MHz	TM1	166800	Outer Full	VN	30	-13.81	-0.016559	±2.5	PASS
N5	15KHz	20MHz	TM1	166800	Outer Full	VN	40	-13.84	-0.016595	±2.5	PASS
N5	15KHz	20MHz	TM1	166800	Outer Full	VN	50	-11.86	-0.014221	±2.5	PASS
N5	15KHz	20MHz	TM1	167300	Outer Full	VN	-30	-12.17	-0.014549	±2.5	PASS
N5	15KHz	20MHz	TM1	167300	Outer Full	VN	-20	-11.38	-0.013604	±2.5	PASS
N5	15KHz	20MHz	TM1	167300	Outer Full	VN	-10	-12.73	-0.015218	±2.5	PASS
N5	15KHz	20MHz	TM1	167300	Outer Full	VN	0	-11.82	-0.014130	±2.5	PASS
N5	15KHz	20MHz	TM1	167300	Outer Full	VN	10	-13.25	-0.015840	±2.5	PASS
N5	15KHz	20MHz	TM1	167300	Outer Full	VN	20	-12.54	-0.014991	±2.5	PASS



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N5	15KHz	20MHz	TM1	167300	Outer Full	VN	30	-13.75	-0.016438	±2.5	PASS
N5	15KHz	20MHz	TM1	167300	Outer Full	VN	40	-11.76	-0.014059	±2.5	PASS
N5	15KHz	20MHz	TM1	167300	Outer Full	VN	50	-13.83	-0.016533	±2.5	PASS
N5	15KHz	20MHz	TM1	167800	Outer Full	VN	-30	-8.63	-0.010286	±2.5	PASS
N5	15KHz	20MHz	TM1	167800	Outer Full	VN	-20	-9.76	-0.011633	±2.5	PASS
N5	15KHz	20MHz	TM1	167800	Outer Full	VN	-10	-10.54	-0.012563	±2.5	PASS
N5	15KHz	20MHz	TM1	167800	Outer Full	VN	0	-20.56	-0.024505	±2.5	PASS
N5	15KHz	20MHz	TM1	167800	Outer Full	VN	10	-16.64	-0.019833	±2.5	PASS
N5	15KHz	20MHz	TM1	167800	Outer Full	VN	20	-13.48	-0.016067	±2.5	PASS
N5	15KHz	20MHz	TM1	167800	Outer Full	VN	30	-13.76	-0.016400	±2.5	PASS
N5	15KHz	20MHz	TM1	167800	Outer Full	VN	40	-14.46	-0.017235	±2.5	PASS
N5	15KHz	20MHz	TM1	167800	Outer Full	VN	50	-12.42	-0.014803	±2.5	PASS
N5	15KHz	20MHz	TM5	166800	Outer Full	VN	-30	-12.46	-0.014940	±2.5	PASS
N5	15KHz	20MHz	TM5	166800	Outer Full	VN	-20	-15.38	-0.018441	±2.5	PASS
N5	15KHz	20MHz	TM5	166800	Outer Full	VN	-10	-10.89	-0.013058	±2.5	PASS
N5	15KHz	20MHz	TM5	166800	Outer Full	VN	0	-13.64	-0.016355	±2.5	PASS
N5	15KHz	20MHz	TM5	166800	Outer Full	VN	10	-14.56	-0.017458	±2.5	PASS
N5	15KHz	20MHz	TM5	166800	Outer Full	VN	20	-10.98	-0.013165	±2.5	PASS
N5	15KHz	20MHz	TM5	166800	Outer Full	VN	30	-10.58	-0.012686	±2.5	PASS
N5	15KHz	20MHz	TM5	166800	Outer Full	VN	40	-8.69	-0.010420	±2.5	PASS
N5	15KHz	20MHz	TM5	166800	Outer Full	VN	50	-7.65	-0.009173	±2.5	PASS
N5	15KHz	20MHz	TM5	167300	Outer Full	VN	-30	-11.57	-0.013831	±2.5	PASS
N5	15KHz	20MHz	TM5	167300	Outer Full	VN	-20	-13.56	-0.016210	±2.5	PASS
N5	15KHz	20MHz	TM5	167300	Outer Full	VN	-10	-12.04	-0.014393	±2.5	PASS
N5	15KHz	20MHz	TM5	167300	Outer Full	VN	0	-11.57	-0.013831	±2.5	PASS
N5	15KHz	20MHz	TM5	167300	Outer Full	VN	10	-10.63	-0.012708	±2.5	PASS
N5	15KHz	20MHz	TM5	167300	Outer Full	VN	20	-9.84	-0.011763	±2.5	PASS
N5	15KHz	20MHz	TM5	167300	Outer Full	VN	30	-11.56	-0.013819	±2.5	PASS
N5	15KHz	20MHz	TM5	167300	Outer Full	VN	40	-12.35	-0.014764	±2.5	PASS
N5	15KHz	20MHz	TM5	167300	Outer Full	VN	50	-13.58	-0.016234	±2.5	PASS
N5	15KHz	20MHz	TM5	167800	Outer Full	VN	-30	-11.65	-0.013886	±2.5	PASS
N5	15KHz	20MHz	TM5	167800	Outer Full	VN	-20	-10.64	-0.012682	±2.5	PASS
N5	15KHz	20MHz	TM5	167800	Outer Full	VN	-10	-18.63	-0.022205	±2.5	PASS
N5	15KHz	20MHz	TM5	167800	Outer Full	VN	0	-11.56	-0.013778	±2.5	PASS
N5	15KHz	20MHz	TM5	167800	Outer Full	VN	10	-12.64	-0.015066	±2.5	PASS
N5	15KHz	20MHz	TM5	167800	Outer Full	VN	20	-13.85	-0.016508	±2.5	PASS
N5	15KHz	20MHz	TM5	167800	Outer Full	VN	30	-14.56	-0.017354	±2.5	PASS
N5	15KHz	20MHz	TM5	167800	Outer Full	VN	40	-12.69	-0.015125	±2.5	PASS
N5	15KHz	20MHz	TM5	167800	Outer Full	VN	50	-15.76	-0.018784	±2.5	PASS

The End



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