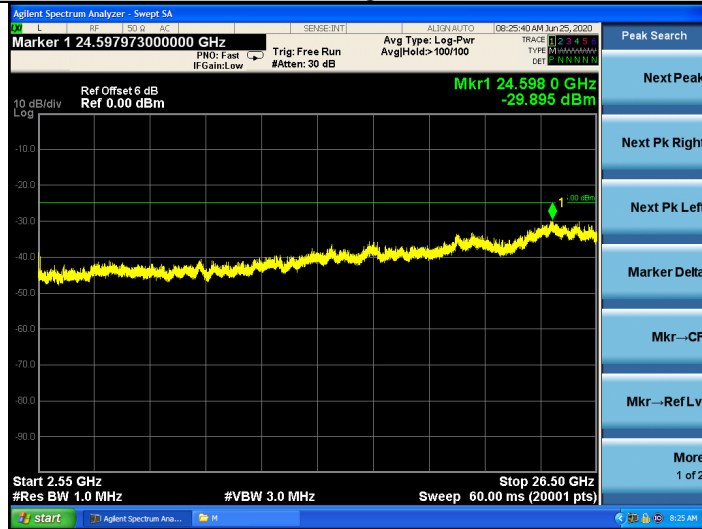
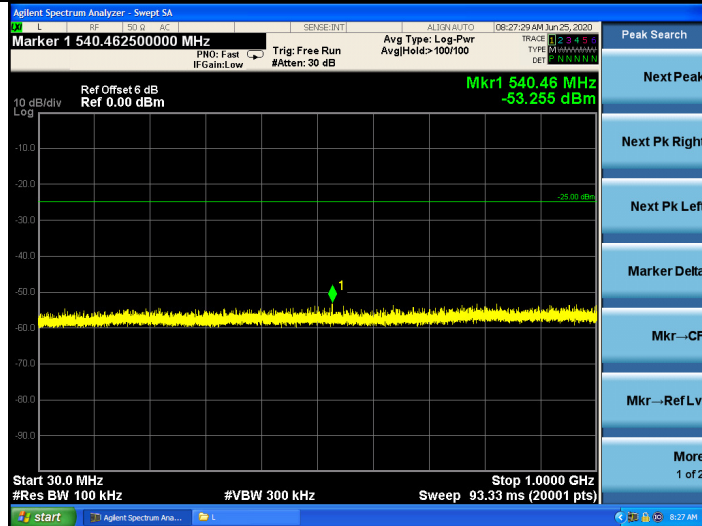


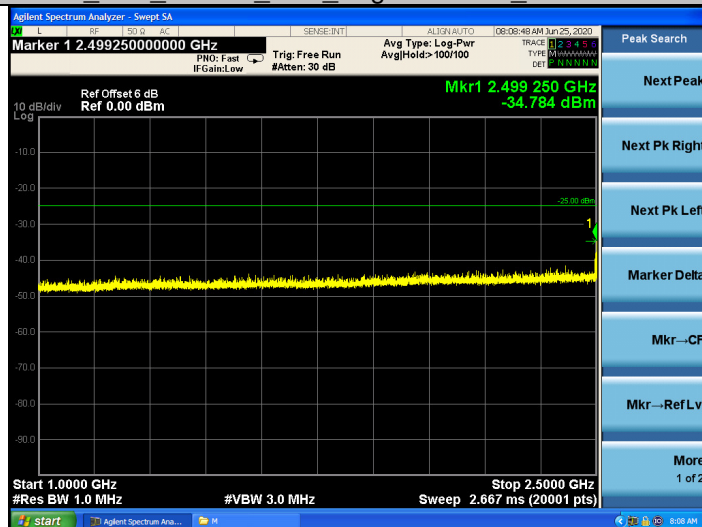
N7\_20M\_502000\_TM1\_Edge 1RB Left\_2550 - 26500



N7\_20M\_507000\_TM1\_Edge 1RB Left\_30 - 1000



N7\_20M\_507000\_TM1\_Edge 1RB Left\_1000 - 2500

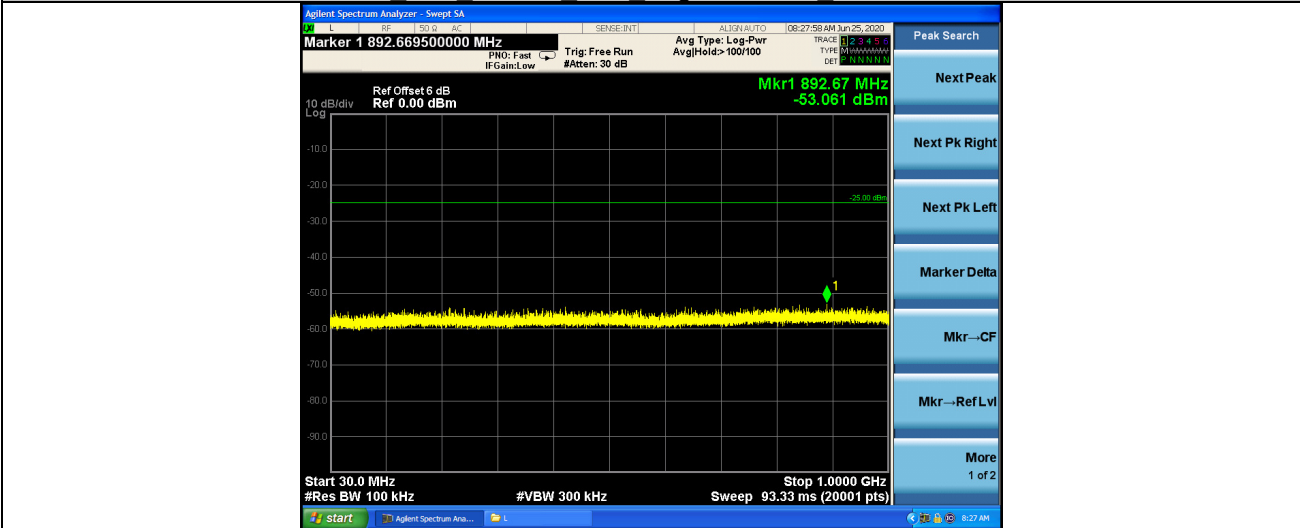


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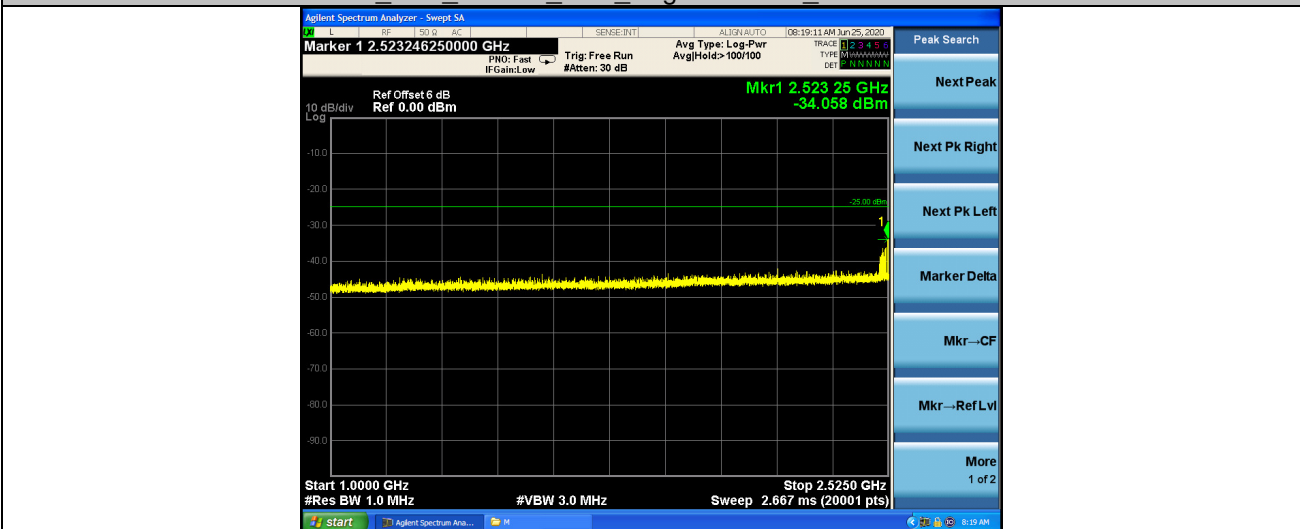
**N7 20M 507000 TM1 Edge 1RB Left 2570 - 26500**



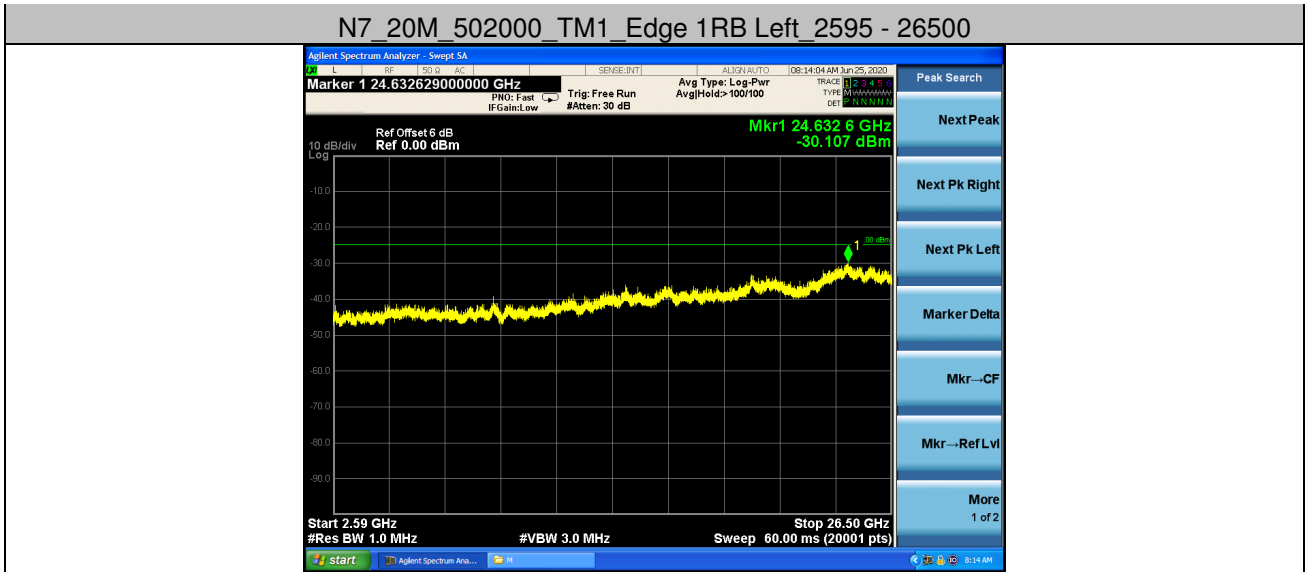
**N7 20M 502000 TM1 Edge 1RB Left 30 - 1000**



**N7 20M 502000 TM1 Edge 1RB Left 1000 - 2525**



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## 7 Field Strength of Spurious Radiation

### 7.1 Test Band = N7

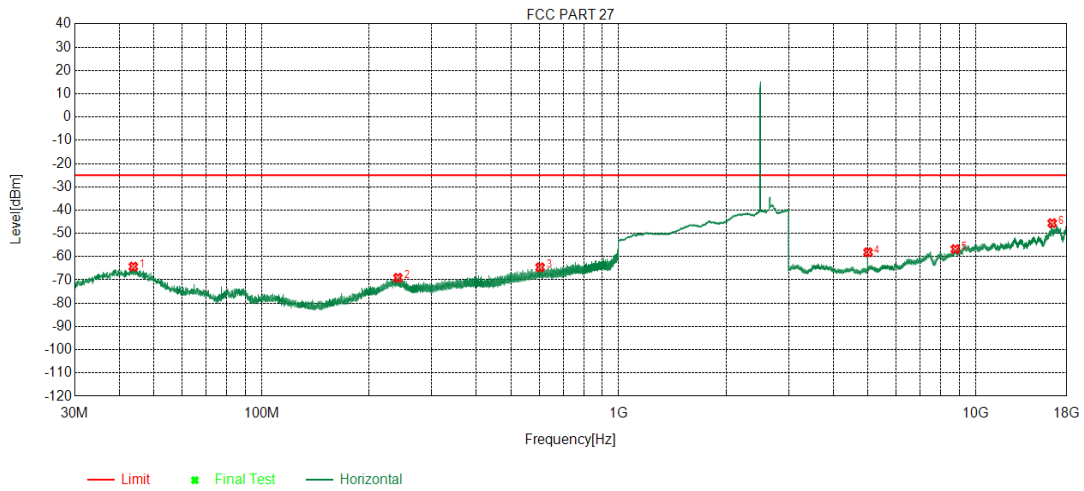
Ant2:

7.1.1 Test Mode = TM1

7.1.1.1 Test Channel = LCH

Band:	7	Mode:	SA
Channel:	502000	State:	

#### Test Graph



Suspected Data List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	43.7747	-71.26	-64.30	-25.00	39.30	6.96	Horizontal
2	241.0826	-71.84	-69.07	-25.00	44.07	2.77	Horizontal
3	603.2987	-72.25	-64.59	-25.00	39.59	7.66	Horizontal
4	5001.0800	-50.90	-58.12	-25.00	33.12	-7.22	Horizontal
5	8781.2312	-60.06	-56.76	-25.00	31.76	3.30	Horizontal
6	16397.9359	-60.03	-45.62	-25.00	20.62	14.41	Horizontal

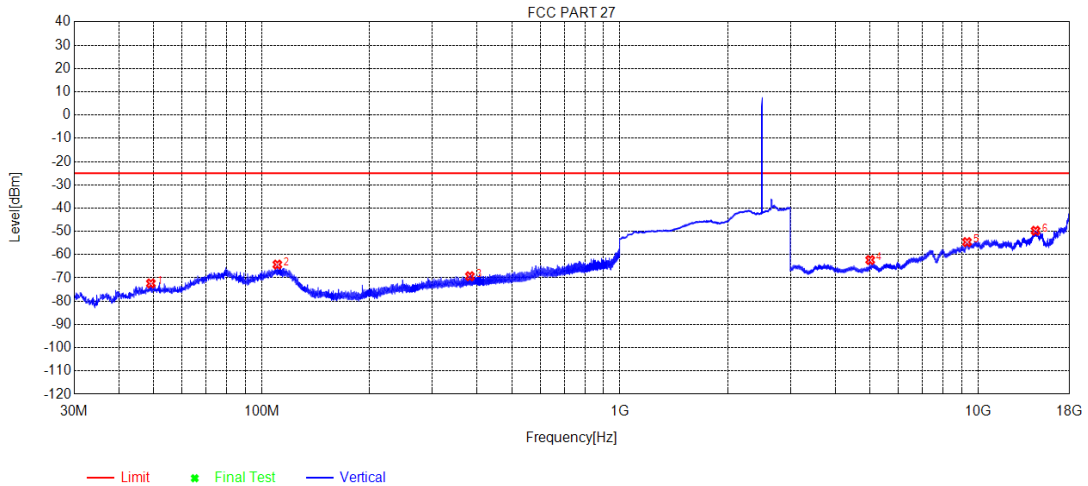


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Band:	7	Mode:	SA
Channel:	502000	State:	

**Test Graph**



Suspected Data List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	49.1100	-70.99	-72.37	-25.00	47.37	-1.38	Vertical
2	110.7080	-70.61	-64.26	-25.00	39.26	6.35	Vertical
3	381.7396	-72.52	-69.26	-25.00	44.26	3.26	Vertical
4	5001.0800	-55.14	-62.30	-25.00	37.30	-7.16	Vertical
5	9321.2529	-60.50	-54.60	-25.00	29.60	5.90	Vertical
6	14482.0593	-62.08	-49.72	-25.00	24.72	12.36	Vertical

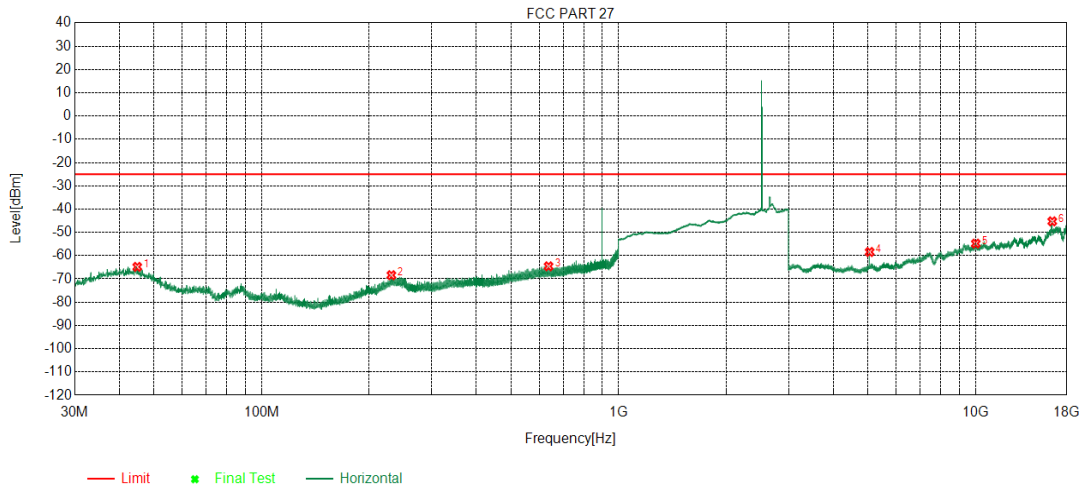


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**7.1.1.2 Test Channel = MCH**

Band:	7	Mode:	SA
Channel:	507000	State:	

**Test Graph**



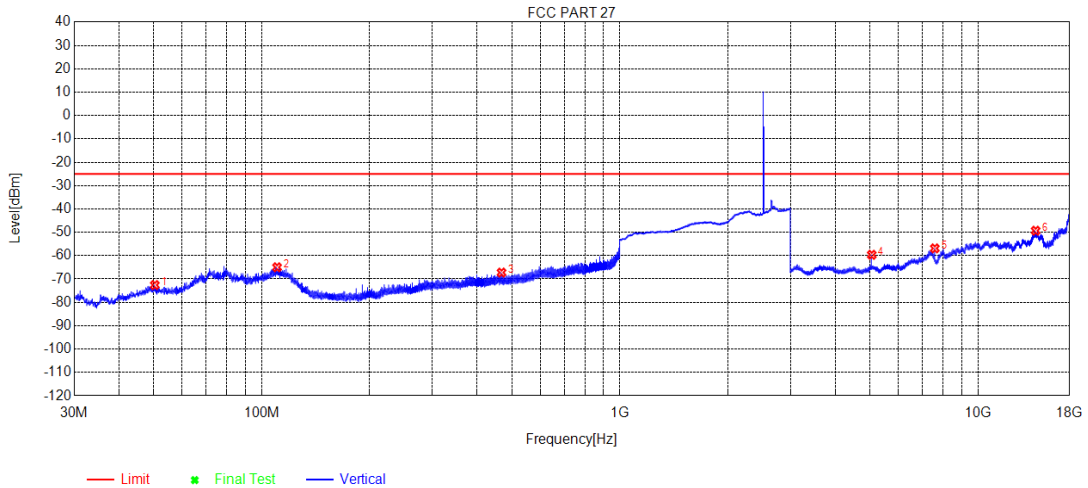
Suspected Data List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	44.8902	-71.83	-64.82	-25.00	39.82	7.01	Horizontal
2	231.1881	-71.22	-68.39	-25.00	43.39	2.83	Horizontal
3	637.2019	-72.39	-64.58	-25.00	39.58	7.81	Horizontal
4	5051.4821	-51.51	-58.42	-25.00	33.42	-6.91	Horizontal
5	10016.6807	-60.39	-54.82	-25.00	29.82	5.57	Horizontal
6	16401.5361	-59.67	-45.26	-25.00	20.26	14.41	Horizontal



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Band:	7	Mode:	SA
Channel:	507000	State:	

**Test Graph**



Suspected Data List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	50.3710	-71.37	-72.58	-25.00	47.58	-1.21	Vertical
2	110.5140	-71.33	-64.97	-25.00	39.97	6.36	Vertical
3	467.7344	-71.47	-67.23	-25.00	42.23	4.24	Vertical
4	5051.4821	-52.55	-59.62	-25.00	34.62	-7.07	Vertical
5	7576.9831	-56.52	-56.87	-25.00	31.87	-0.35	Vertical
6	14488.0595	-61.72	-49.31	-25.00	24.31	12.41	Vertical

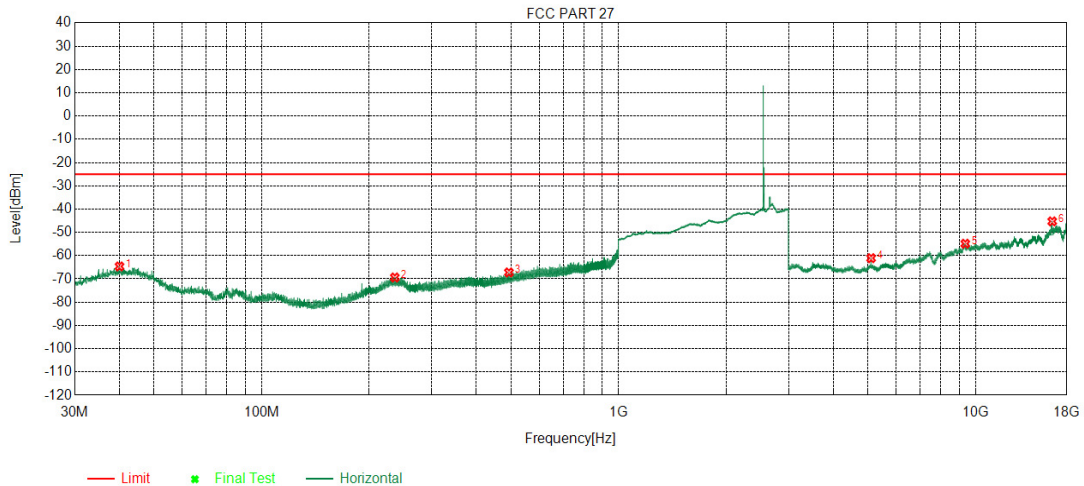


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**7.1.1.3 Test Channel = HCH**

Band:	7	Mode:	SA
Channel:	512000	State:	

**Test Graph**



Suspected Data List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	40.0400	-71.39	-64.63	-25.00	39.63	6.76	Horizontal
2	236.3778	-72.19	-69.39	-25.00	44.39	2.80	Horizontal
3	493.4407	-72.16	-67.21	-25.00	42.21	4.95	Horizontal
4	5101.2841	-54.48	-61.08	-25.00	36.08	-6.60	Horizontal
5	9360.8544	-60.22	-54.86	-25.00	29.86	5.36	Horizontal
6	16397.3359	-59.67	-45.27	-25.00	20.27	14.40	Horizontal

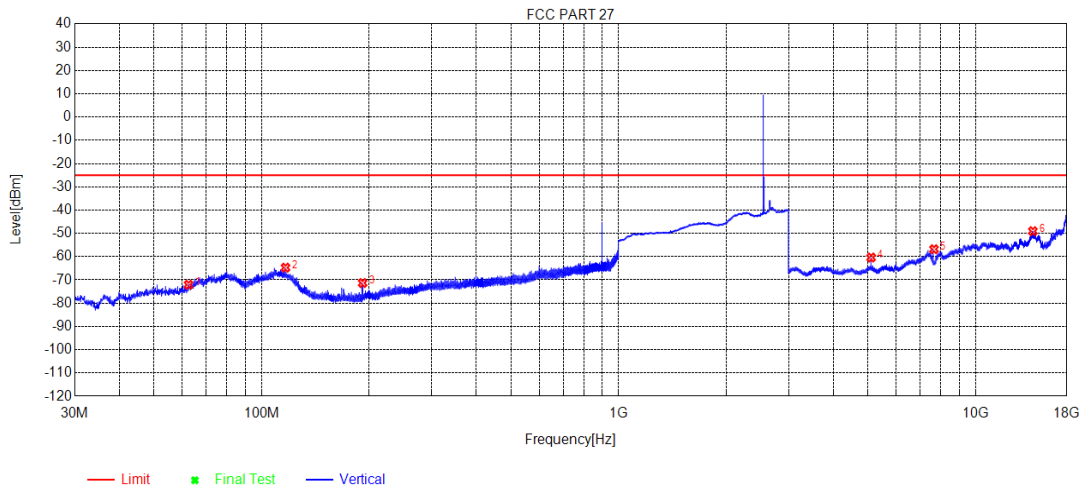


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Band:	7	Mode:	SA
Channel:	512000	State:	

**Test Graph**



Suspected Data List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	62.4966	-72.09	-72.07	-25.00	47.07	0.02	Vertical
2	116.8193	-70.53	-64.72	-25.00	39.72	5.81	Vertical
3	192.0466	-67.90	-71.33	-25.00	46.33	-3.43	Vertical
4	5101.2841	-53.39	-60.37	-25.00	35.37	-6.98	Vertical
5	7651.9861	-55.91	-56.81	-25.00	31.81	-0.90	Vertical
6	14474.2590	-61.36	-49.06	-25.00	24.06	12.30	Vertical



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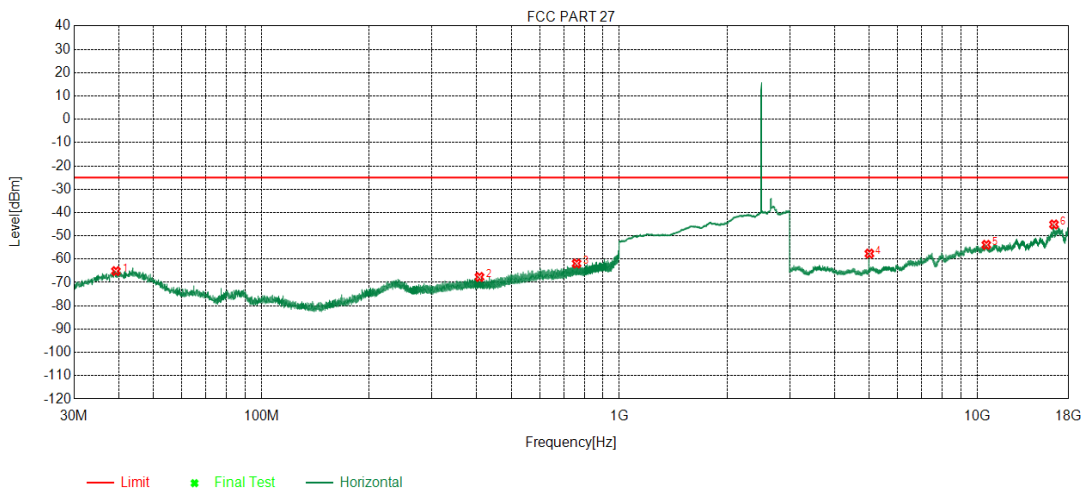
**Ant3:**

**7.1.2 Test Mode = TM1**

**7.1.2.1 Test Channel = LCH**

Band:	7	Mode:	SA
Channel:	502000	State:	

**Test Graph**

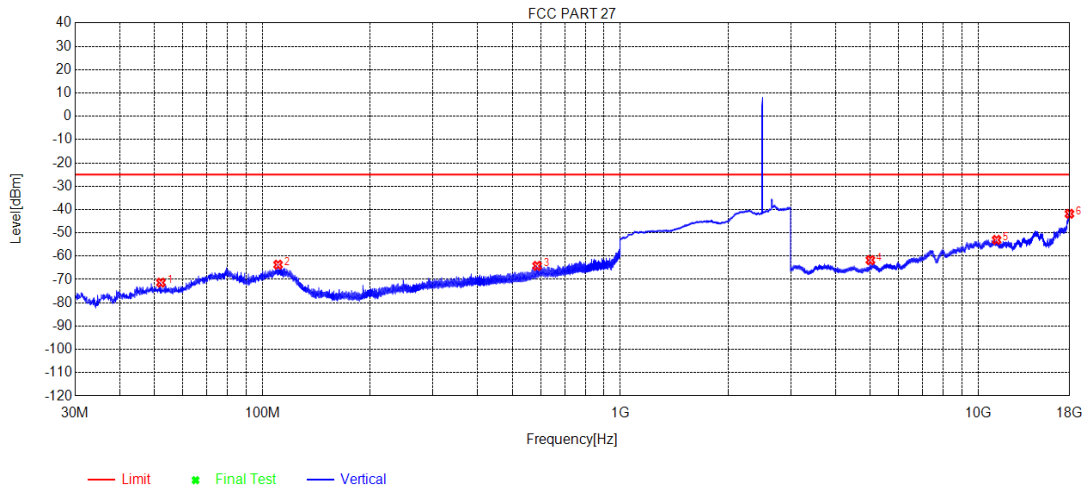


Suspected Data List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	39.2640	-71.64	-65.13	-25.00	40.13	6.51	Horizontal
2	407.1549	-70.84	-67.64	-25.00	42.64	3.20	Horizontal
3	760.5435	-71.80	-61.86	-25.00	36.86	9.94	Horizontal
4	5001.0800	-50.40	-57.62	-25.00	32.62	-7.22	Horizontal
5	10610.7044	-60.05	-53.85	-25.00	28.85	6.20	Horizontal
6	16397.9359	-59.53	-45.12	-25.00	20.12	14.41	Horizontal



Band:	7	Mode:	SA
Channel:	502000	State:	

**Test Graph**



Suspected Data List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	52.1171	-70.04	-71.37	-25.00	46.37	-1.33	Vertical
2	110.7080	-70.01	-63.66	-25.00	38.66	6.35	Vertical
3	586.0318	-71.12	-64.17	-25.00	39.17	6.95	Vertical
4	5001.0800	-54.54	-61.70	-25.00	36.70	-7.16	Vertical
5	11261.7305	-59.31	-53.03	-25.00	28.03	6.28	Vertical
6	17996.9999	-59.62	-41.82	-25.00	16.82	17.80	Vertical

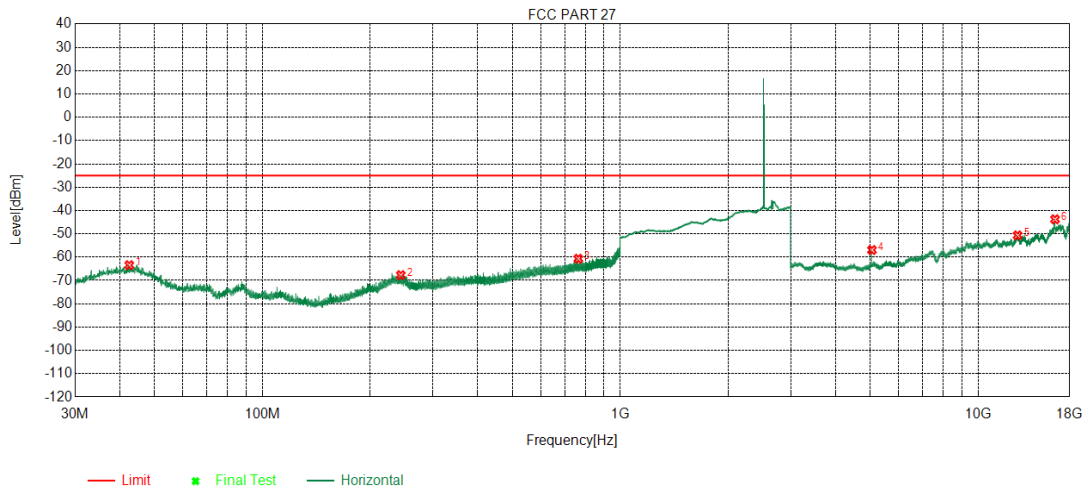


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**7.1.2.2 Test Channel = MCH**

Band:	7	Mode:	SA
Channel:	507000	State:	

**Test Graph**



Suspected Data List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	42.5136	-70.32	-63.43	-25.00	38.43	6.89	Horizontal
2	243.8957	-70.41	-67.71	-25.00	42.71	2.70	Horizontal
3	763.8902	-70.60	-60.67	-25.00	35.67	9.93	Horizontal
4	5051.4821	-50.01	-56.92	-25.00	31.92	-6.91	Horizontal
5	12888.9956	-60.30	-50.64	-25.00	25.64	9.66	Horizontal
6	16401.5361	-58.17	-43.76	-25.00	18.76	14.41	Horizontal

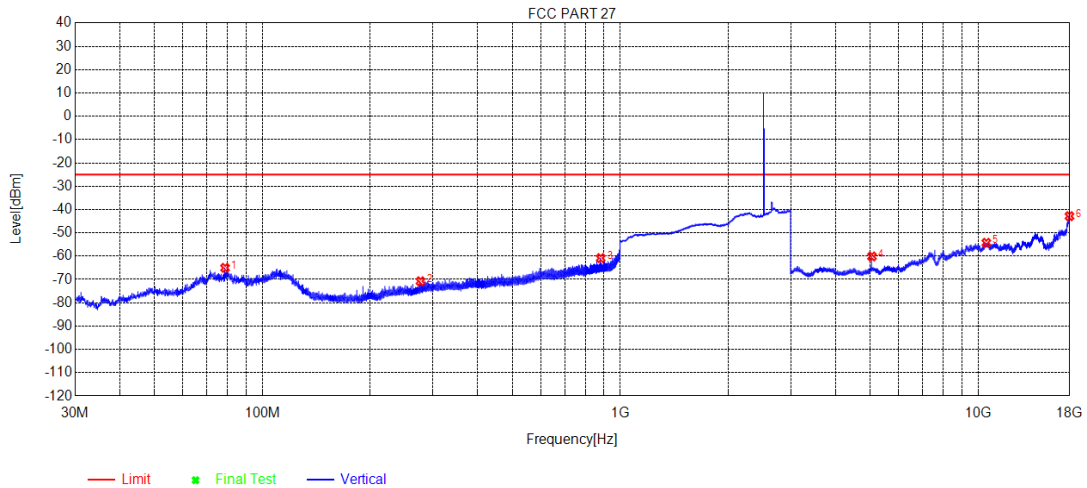


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Band:	7	Mode:	SA
Channel:	507000	State:	

**Test Graph**



Suspected Data List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	78.7449	-66.80	-65.02	-25.00	40.02	1.78	Vertical
2	276.8288	-71.23	-70.77	-25.00	45.77	0.46	Vertical
3	882.3816	-71.98	-60.84	-25.00	35.84	11.14	Vertical
4	5051.4821	-53.05	-60.12	-25.00	35.12	-7.07	Vertical
5	10542.3017	-61.30	-54.26	-25.00	29.26	7.04	Vertical
6	17998.1999	-60.68	-42.85	-25.00	17.85	17.83	Vertical

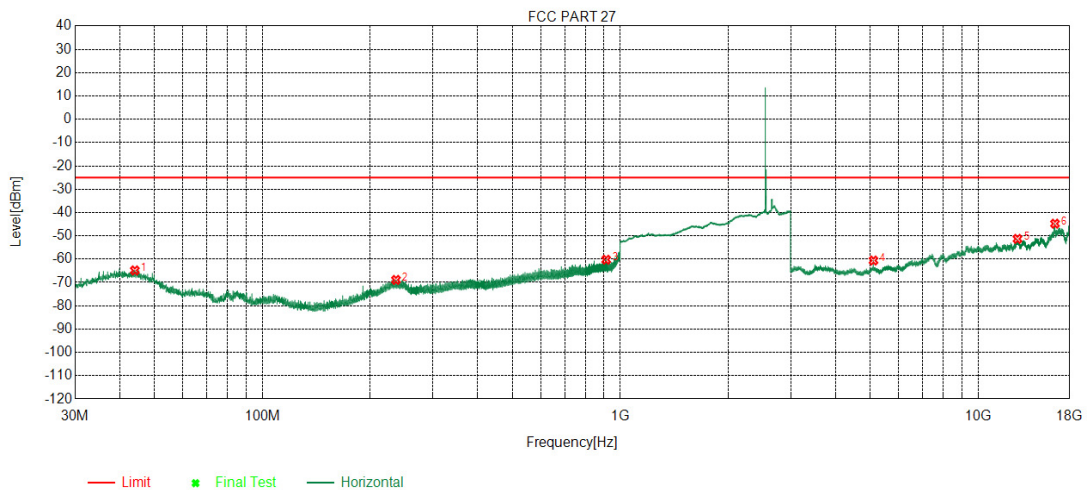


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**7.1.2.3 Test Channel = HCH**

Band:	7	Mode:	SA
Channel:	512000	State:	

**Test Graph**

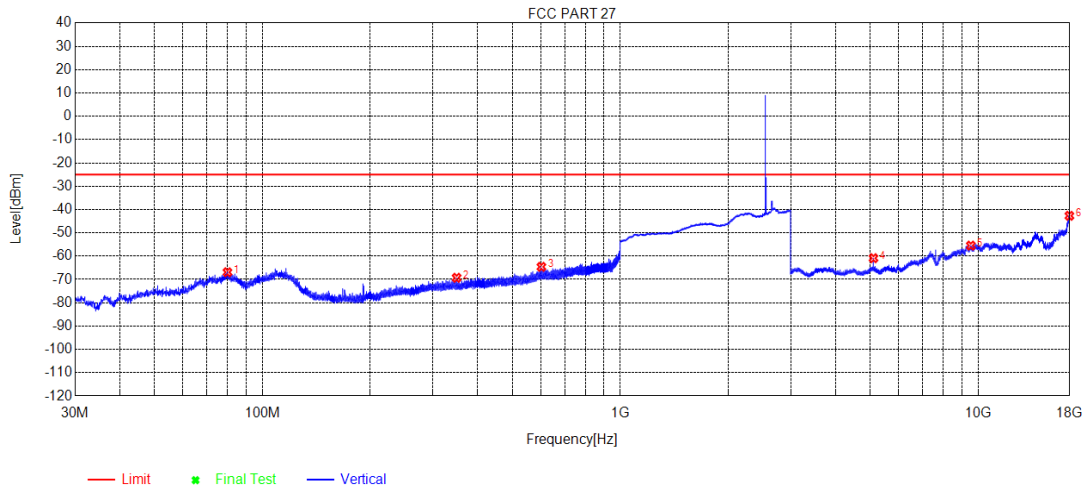


Suspected Data List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	44.0657	-71.80	-64.83	-25.00	39.83	6.97	Horizontal
2	236.3778	-71.69	-68.89	-25.00	43.89	2.80	Horizontal
3	913.7142	-72.19	-60.24	-25.00	35.24	11.95	Horizontal
4	5101.2841	-53.98	-60.58	-25.00	35.58	-6.60	Horizontal
5	12881.1952	-60.91	-51.30	-25.00	26.30	9.61	Horizontal
6	16397.3359	-59.17	-44.77	-25.00	19.77	14.40	Horizontal



Band:	7	Mode:	SA
Channel:	512000	State:	

**Test Graph**



Suspected Data List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	79.9575	-69.02	-66.90	-25.00	41.90	2.12	Vertical
2	349.2430	-71.58	-69.27	-25.00	44.27	2.31	Vertical
3	602.4256	-72.21	-64.58	-25.00	39.58	7.63	Vertical
4	5101.2841	-53.89	-60.87	-25.00	35.87	-6.98	Vertical
5	9542.0617	-60.74	-55.46	-25.00	30.46	5.28	Vertical
6	17990.3996	-60.33	-42.69	-25.00	17.69	17.64	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
N7	15KHz	20MHz	TM1	502000	Outer Full	VL	NT	-10.56	-0.004207	±2.5	PASS
N7	15KHz	20MHz	TM1	502000	Outer Full	VN	NT	-11.53	-0.004594	±2.5	PASS
N7	15KHz	20MHz	TM1	502000	Outer Full	VH	NT	-10.26	-0.004088	±2.5	PASS
N7	15KHz	20MHz	TM1	507000	Outer Full	VL	NT	-13.54	-0.005341	±2.5	PASS
N7	15KHz	20MHz	TM1	507000	Outer Full	VN	NT	-9.64	-0.003803	±2.5	PASS
N7	15KHz	20MHz	TM1	507000	Outer Full	VH	NT	-11.56	-0.004560	±2.5	PASS
N7	15KHz	20MHz	TM1	512000	Outer Full	VL	NT	-13.12	-0.005125	±2.5	PASS
N7	15KHz	20MHz	TM1	512000	Outer Full	VN	NT	9.64	0.003766	±2.5	PASS
N7	15KHz	20MHz	TM1	512000	Outer Full	VH	NT	8.56	0.003344	±2.5	PASS
N7	15KHz	20MHz	TM5	502000	Outer Full	VL	NT	-11.53	-0.004594	±2.5	PASS
N7	15KHz	20MHz	TM5	502000	Outer Full	VN	NT	-12.56	-0.005004	±2.5	PASS
N7	15KHz	20MHz	TM5	502000	Outer Full	VH	NT	-11.33	-0.004514	±2.5	PASS
N7	15KHz	20MHz	TM5	507000	Outer Full	VL	NT	-10.68	-0.004213	±2.5	PASS
N7	15KHz	20MHz	TM5	507000	Outer Full	VN	NT	-18.62	-0.007345	±2.5	PASS
N7	15KHz	20MHz	TM5	507000	Outer Full	VH	NT	-17.65	-0.006963	±2.5	PASS
N7	15KHz	20MHz	TM5	512000	Outer Full	VL	NT	-17.51	-0.006840	±2.5	PASS
N7	15KHz	20MHz	TM5	512000	Outer Full	VN	NT	-10.56	-0.004125	±2.5	PASS
N7	15KHz	20MHz	TM5	512000	Outer Full	VH	NT	-11.35	-0.004434	±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
N7	15KHz	20MHz	TM1	502000	Outer Full	VN	-30	-10.56	-0.004207	±2.5	PASS
N7	15KHz	20MHz	TM1	502000	Outer Full	VN	-20	10.64	0.004239	±2.5	PASS
N7	15KHz	20MHz	TM1	502000	Outer Full	VN	-10	10.53	0.004195	±2.5	PASS
N7	15KHz	20MHz	TM1	502000	Outer Full	VN	0	-11.34	-0.004518	±2.5	PASS
N7	15KHz	20MHz	TM1	502000	Outer Full	VN	10	-12.83	-0.005112	±2.5	PASS
N7	15KHz	20MHz	TM1	502000	Outer Full	VN	20	-13.47	-0.005367	±2.5	PASS
N7	15KHz	20MHz	TM1	502000	Outer Full	VN	30	-12.45	-0.004960	±2.5	PASS
N7	15KHz	20MHz	TM1	502000	Outer Full	VN	40	-13.54	-0.005394	±2.5	PASS
N7	15KHz	20MHz	TM1	502000	Outer Full	VN	50	-11.76	-0.004685	±2.5	PASS
N7	15KHz	20MHz	TM1	507000	Outer Full	VN	-30	-12.84	-0.005065	±2.5	PASS
N7	15KHz	20MHz	TM1	507000	Outer Full	VN	-20	-11.46	-0.004521	±2.5	PASS
N7	15KHz	20MHz	TM1	507000	Outer Full	VN	-10	-11.83	-0.004667	±2.5	PASS
N7	15KHz	20MHz	TM1	507000	Outer Full	VN	0	-12.67	-0.004998	±2.5	PASS
N7	15KHz	20MHz	TM1	507000	Outer Full	VN	10	-12.36	-0.004876	±2.5	PASS
N7	15KHz	20MHz	TM1	507000	Outer Full	VN	20	-10.53	-0.004154	±2.5	PASS



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N7	15KHz	20MHz	TM1	507000	Outer Full	VN	30	-10.24	-0.004039	±2.5	PASS
N7	15KHz	20MHz	TM1	507000	Outer Full	VN	40	-11.58	-0.004568	±2.5	PASS
N7	15KHz	20MHz	TM1	507000	Outer Full	VN	50	5.56	0.002193	±2.5	PASS
N7	15KHz	20MHz	TM1	512000	Outer Full	VN	-30	4.63	0.001809	±2.5	PASS
N7	15KHz	20MHz	TM1	512000	Outer Full	VN	-20	7.56	0.002953	±2.5	PASS
N7	15KHz	20MHz	TM1	512000	Outer Full	VN	-10	8.52	0.003328	±2.5	PASS
N7	15KHz	20MHz	TM1	512000	Outer Full	VN	0	9.36	0.003656	±2.5	PASS
N7	15KHz	20MHz	TM1	512000	Outer Full	VN	10	-10.21	-0.003988	±2.5	PASS
N7	15KHz	20MHz	TM1	512000	Outer Full	VN	20	-10.86	-0.004242	±2.5	PASS
N7	15KHz	20MHz	TM1	512000	Outer Full	VN	30	-11.56	-0.004516	±2.5	PASS
N7	15KHz	20MHz	TM1	512000	Outer Full	VN	40	-12.56	-0.004906	±2.5	PASS
N7	15KHz	20MHz	TM1	512000	Outer Full	VN	50	-14.54	-0.005680	±2.5	PASS
N7	15KHz	20MHz	TM5	502000	Outer Full	VN	-30	-10.53	-0.004195	±2.5	PASS
N7	15KHz	20MHz	TM5	502000	Outer Full	VN	-20	-11.64	-0.004637	±2.5	PASS
N7	15KHz	20MHz	TM5	502000	Outer Full	VN	-10	-10.65	-0.004243	±2.5	PASS
N7	15KHz	20MHz	TM5	502000	Outer Full	VN	0	-9.64	-0.003841	±2.5	PASS
N7	15KHz	20MHz	TM5	502000	Outer Full	VN	10	-11.58	-0.004614	±2.5	PASS
N7	15KHz	20MHz	TM5	502000	Outer Full	VN	20	-10.52	-0.004191	±2.5	PASS
N7	15KHz	20MHz	TM5	502000	Outer Full	VN	30	-11.35	-0.004522	±2.5	PASS
N7	15KHz	20MHz	TM5	502000	Outer Full	VN	40	-12.64	-0.005036	±2.5	PASS
N7	15KHz	20MHz	TM5	502000	Outer Full	VN	50	-11.36	-0.004526	±2.5	PASS
N7	15KHz	20MHz	TM5	507000	Outer Full	VN	-30	-9.54	-0.003763	±2.5	PASS
N7	15KHz	20MHz	TM5	507000	Outer Full	VN	-20	-8.65	-0.003412	±2.5	PASS
N7	15KHz	20MHz	TM5	507000	Outer Full	VN	-10	-10.23	-0.004036	±2.5	PASS
N7	15KHz	20MHz	TM5	507000	Outer Full	VN	0	-11.56	-0.004560	±2.5	PASS
N7	15KHz	20MHz	TM5	507000	Outer Full	VN	10	-10.85	-0.004280	±2.5	PASS
N7	15KHz	20MHz	TM5	507000	Outer Full	VN	20	-11.46	-0.004521	±2.5	PASS
N7	15KHz	20MHz	TM5	507000	Outer Full	VN	30	-10.39	-0.004099	±2.5	PASS
N7	15KHz	20MHz	TM5	507000	Outer Full	VN	40	-8.69	-0.003428	±2.5	PASS
N7	15KHz	20MHz	TM5	507000	Outer Full	VN	50	-9.63	-0.003799	±2.5	PASS
N7	15KHz	20MHz	TM5	512000	Outer Full	VN	-30	-11.56	-0.004516	±2.5	PASS
N7	15KHz	20MHz	TM5	512000	Outer Full	VN	-20	-10.34	-0.004039	±2.5	PASS
N7	15KHz	20MHz	TM5	512000	Outer Full	VN	-10	8.46	0.003305	±2.5	PASS
N7	15KHz	20MHz	TM5	512000	Outer Full	VN	0	11.45	0.004473	±2.5	PASS
N7	15KHz	20MHz	TM5	512000	Outer Full	VN	10	18.65	0.007285	±2.5	PASS
N7	15KHz	20MHz	TM5	512000	Outer Full	VN	20	19.54	0.007633	±2.5	PASS
N7	15KHz	20MHz	TM5	512000	Outer Full	VN	30	-11.12	-0.004344	±2.5	PASS
N7	15KHz	20MHz	TM5	512000	Outer Full	VN	40	-10.68	-0.004172	±2.5	PASS
N7	15KHz	20MHz	TM5	512000	Outer Full	VN	50	-11.54	-0.004508	±2.5	PASS

The End



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