



# Appendix B

## E-UTRA Band CA\_13A\_66A



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# 1 Effective (Isotropic) Radiated Power Output Data

## 1.1.1. Max Power Test Result for LTE Band CA\_13A\_66A

### PCC

Band	Bandwidth	Modulation	Channel	RB Configuration	Conducted Power(dBm)	ERP (dBm)	Limit (dBm)	Verdict
Band13	15MHz	QPSK	23230	1RB#24	22.24	22.09	34.77	PASS
Band13	15MHz	QPSK	23230	1RB#0	22.13	21.98	34.77	PASS
Band13	15MHz	QPSK	23230	1RB#49	22.11	21.96	34.77	PASS
Band13	15MHz	QPSK	23230	25RB#25	21.44	21.29	34.77	PASS
Band13	15MHz	QPSK	23230	25RB#0	21.21	21.06	34.77	PASS
Band13	15MHz	QPSK	23230	25RB#12	21.13	20.98	34.77	PASS
Band13	15MHz	QPSK	23230	50RB#0	21.12	20.97	34.77	PASS
Band13	15MHz	64QAM	23230	1RB#49	20.59	20.44	34.77	PASS
Band13	15MHz	64QAM	23230	1RB#0	20.23	20.08	34.77	PASS
Band13	15MHz	64QAM	23230	1RB#24	20.17	20.02	34.77	PASS
Band13	15MHz	64QAM	23230	25RB#25	19.51	19.36	34.77	PASS
Band13	15MHz	64QAM	23230	25RB#0	19.46	19.31	34.77	PASS
Band13	15MHz	64QAM	23230	25RB#12	19.30	19.15	34.77	PASS
Band13	15MHz	64QAM	23230	50RB#0	19.48	19.33	34.77	PASS
Band13	15MHz	16QAM	23230	1RB#24	21.32	21.17	34.77	PASS
Band13	15MHz	16QAM	23230	1RB#49	21.29	21.14	34.77	PASS
Band13	15MHz	16QAM	23230	1RB#0	21.52	21.37	34.77	PASS
Band13	15MHz	16QAM	23230	25RB#12	20.48	20.33	34.77	PASS
Band13	15MHz	16QAM	23230	25RB#0	20.44	20.29	34.77	PASS
Band13	15MHz	16QAM	23230	25RB#25	20.38	20.23	34.77	PASS
Band13	15MHz	16QAM	23230	50RB#0	20.19	20.04	34.77	PASS



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**SCC**

Band	Bandwidth	Modulation	Channel	RB Configuration	Conducted Power(dBm)	EIRP (dBm)	Limit (dBm)	Verdict
Band66	10MHz	QPSK	132022	1RB#0	21.89	25.89	30	PASS
Band66	10MHz	QPSK	132022	1RB#24	21.92	25.92	30	PASS
Band66	10MHz	QPSK	132022	1RB#49	22.32	26.32	30	PASS
Band66	10MHz	QPSK	132022	25RB#0	21.30	25.3	30	PASS
Band66	10MHz	QPSK	132022	25RB#12	21.22	25.22	30	PASS
Band66	10MHz	QPSK	132022	25RB#25	21.38	25.38	30	PASS
Band66	10MHz	QPSK	132022	50RB#0	21.44	25.44	30	PASS
Band66	10MHz	QPSK	132322	1RB#0	22.49	26.49	30	PASS
Band66	10MHz	QPSK	132322	1RB#24	22.21	26.21	30	PASS
Band66	10MHz	QPSK	132322	1RB#49	22.46	26.46	30	PASS
Band66	10MHz	QPSK	132322	25RB#12	21.50	25.5	30	PASS
Band66	10MHz	QPSK	132322	25RB#25	21.38	25.38	30	PASS
Band66	10MHz	QPSK	132322	25RB#0	21.52	25.52	30	PASS
Band66	10MHz	QPSK	132322	50RB#0	21.56	25.56	30	PASS
Band66	10MHz	QPSK	132622	1RB#0	22.33	26.33	30	PASS
Band66	10MHz	QPSK	132622	1RB#24	22.29	26.29	30	PASS
Band66	10MHz	QPSK	132622	1RB#49	22.49	26.49	30	PASS
Band66	10MHz	QPSK	132622	25RB#0	21.39	25.39	30	PASS
Band66	10MHz	QPSK	132622	25RB#12	21.52	25.52	30	PASS
Band66	10MHz	QPSK	132622	25RB#25	21.44	25.44	30	PASS
Band66	10MHz	QPSK	132622	50RB#0	21.41	25.41	30	PASS
Band66	10MHz	64QAM	132022	1RB#0	21.55	25.55	30	PASS
Band66	10MHz	64QAM	132022	1RB#49	21.89	25.89	30	PASS
Band66	10MHz	64QAM	132022	1RB#24	21.81	25.81	30	PASS
Band66	10MHz	64QAM	132022	25RB#12	20.87	24.87	30	PASS
Band66	10MHz	64QAM	132022	25RB#0	20.78	24.78	30	PASS
Band66	10MHz	64QAM	132022	25RB#25	20.91	24.91	30	PASS
Band66	10MHz	64QAM	132022	50RB#0	20.83	24.83	30	PASS
Band66	10MHz	64QAM	132322	1RB#0	21.97	25.97	30	PASS
Band66	10MHz	64QAM	132322	1RB#49	22.09	26.09	30	PASS
Band66	10MHz	64QAM	132322	1RB#24	21.68	25.68	30	PASS
Band66	10MHz	64QAM	132322	25RB#0	20.63	24.63	30	PASS
Band66	10MHz	64QAM	132322	25RB#12	20.90	24.9	30	PASS
Band66	10MHz	64QAM	132322	25RB#25	20.56	24.56	30	PASS
Band66	10MHz	64QAM	132322	50RB#0	20.87	24.87	30	PASS
Band66	10MHz	64QAM	132622	1RB#49	21.88	25.88	30	PASS



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Band66	10MHz	64QAM	132622	1RB#24	21.77	25.77	30	PASS
Band66	10MHz	64QAM	132622	1RB#0	21.56	25.56	30	PASS
Band66	10MHz	64QAM	132622	25RB#25	20.59	24.59	30	PASS
Band66	10MHz	64QAM	132622	25RB#0	20.73	24.73	30	PASS
Band66	10MHz	64QAM	132622	25RB#12	20.78	24.78	30	PASS
Band66	10MHz	64QAM	132622	50RB#0	20.63	24.63	30	PASS
Band66	10MHz	16QAM	132022	1RB#49	21.56	25.56	30	PASS
Band66	10MHz	16QAM	132022	1RB#0	20.99	24.99	30	PASS
Band66	10MHz	16QAM	132022	1RB#24	21.64	25.64	30	PASS
Band66	10MHz	16QAM	132022	25RB#25	20.25	24.25	30	PASS
Band66	10MHz	16QAM	132022	25RB#0	19.94	23.94	30	PASS
Band66	10MHz	16QAM	132022	25RB#12	20.44	24.44	30	PASS
Band66	10MHz	16QAM	132022	50RB#0	20.41	24.41	30	PASS
Band66	10MHz	16QAM	132322	1RB#0	21.88	25.88	30	PASS
Band66	10MHz	16QAM	132322	1RB#24	21.59	25.59	30	PASS
Band66	10MHz	16QAM	132322	1RB#49	21.38	25.38	30	PASS
Band66	10MHz	16QAM	132322	25RB#0	20.29	24.29	30	PASS
Band66	10MHz	16QAM	132322	25RB#12	20.47	24.47	30	PASS
Band66	10MHz	16QAM	132322	25RB#25	20.33	24.33	30	PASS
Band66	10MHz	16QAM	132322	50RB#0	20.43	24.43	30	PASS
Band66	10MHz	16QAM	132622	1RB#24	21.30	25.3	30	PASS
Band66	10MHz	16QAM	132622	1RB#49	21.50	25.5	30	PASS
Band66	10MHz	16QAM	132622	1RB#0	21.64	25.64	30	PASS
Band66	10MHz	16QAM	132622	25RB#0	20.39	24.39	30	PASS
Band66	10MHz	16QAM	132622	25RB#12	20.28	24.28	30	PASS
Band66	10MHz	16QAM	132622	25RB#25	20.30	24.3	30	PASS
Band66	10MHz	16QAM	132622	50RB#0	20.56	24.56	30	PASS
Band66	20MHz	QPSK	132072	1RB#49	22.26	26.26	30	PASS
Band66	20MHz	QPSK	132072	1RB#99	22.28	26.28	30	PASS
Band66	20MHz	QPSK	132072	1RB#0	21.90	25.9	30	PASS
Band66	20MHz	QPSK	132072	50RB#0	21.67	25.67	30	PASS
Band66	20MHz	QPSK	132072	50RB#25	21.43	25.43	30	PASS
Band66	20MHz	QPSK	132072	50RB#50	21.60	25.6	30	PASS
Band66	20MHz	QPSK	132072	100RB#0	21.64	25.64	30	PASS
Band66	20MHz	QPSK	132322	1RB#99	22.51	26.51	30	PASS
Band66	20MHz	QPSK	132322	1RB#49	22.29	26.29	30	PASS
Band66	20MHz	QPSK	132322	1RB#0	22.67	26.67	30	PASS
Band66	20MHz	QPSK	132322	50RB#25	21.50	25.5	30	PASS
Band66	20MHz	QPSK	132322	50RB#0	21.64	25.64	30	PASS
Band66	20MHz	QPSK	132322	50RB#50	21.69	25.69	30	PASS



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Band66	20MHz	QPSK	132322	100RB#0	21.75	25.75	30	PASS
Band66	20MHz	QPSK	132572	1RB#49	22.47	26.47	30	PASS
Band66	20MHz	QPSK	132572	1RB#0	22.47	26.47	30	PASS
Band66	20MHz	QPSK	132572	1RB#99	22.42	26.42	30	PASS
Band66	20MHz	QPSK	132572	50RB#25	21.84	25.84	30	PASS
Band66	20MHz	QPSK	132572	50RB#50	21.83	25.83	30	PASS
Band66	20MHz	QPSK	132572	50RB#0	21.68	25.68	30	PASS
Band66	20MHz	QPSK	132572	100RB#0	21.64	25.64	30	PASS
Band66	20MHz	64QAM	132072	1RB#0	21.82	25.82	30	PASS
Band66	20MHz	64QAM	132072	1RB#49	22.07	26.07	30	PASS
Band66	20MHz	64QAM	132072	1RB#99	22.24	26.24	30	PASS
Band66	20MHz	64QAM	132072	50RB#0	21.02	25.02	30	PASS
Band66	20MHz	64QAM	132072	50RB#25	21.01	25.01	30	PASS
Band66	20MHz	64QAM	132072	50RB#50	20.89	24.89	30	PASS
Band66	20MHz	64QAM	132072	100RB#0	20.77	24.77	30	PASS
Band66	20MHz	64QAM	132322	1RB#99	22.06	26.06	30	PASS
Band66	20MHz	64QAM	132322	1RB#0	22.07	26.07	30	PASS
Band66	20MHz	64QAM	132322	1RB#49	21.94	25.94	30	PASS
Band66	20MHz	64QAM	132322	50RB#25	20.90	24.9	30	PASS
Band66	20MHz	64QAM	132322	50RB#50	20.85	24.85	30	PASS
Band66	20MHz	64QAM	132322	50RB#0	21.08	25.08	30	PASS
Band66	20MHz	64QAM	132322	100RB#0	20.89	24.89	30	PASS
Band66	20MHz	64QAM	132572	1RB#49	21.90	25.9	30	PASS
Band66	20MHz	64QAM	132572	1RB#99	21.90	25.9	30	PASS
Band66	20MHz	64QAM	132572	1RB#0	21.93	25.93	30	PASS
Band66	20MHz	64QAM	132572	50RB#50	20.79	24.79	30	PASS
Band66	20MHz	64QAM	132572	50RB#0	21.00	25	30	PASS
Band66	20MHz	64QAM	132572	50RB#25	20.91	24.91	30	PASS
Band66	20MHz	64QAM	132572	100RB#0	20.90	24.9	30	PASS
Band66	20MHz	16QAM	132072	1RB#99	21.80	25.8	30	PASS
Band66	20MHz	16QAM	132072	1RB#0	20.97	24.97	30	PASS
Band66	20MHz	16QAM	132072	1RB#49	21.60	25.6	30	PASS
Band66	20MHz	16QAM	132072	50RB#0	20.66	24.66	30	PASS
Band66	20MHz	16QAM	132072	50RB#25	20.46	24.46	30	PASS
Band66	20MHz	16QAM	132072	50RB#50	20.59	24.59	30	PASS
Band66	20MHz	16QAM	132072	100RB#0	20.39	24.39	30	PASS
Band66	20MHz	16QAM	132322	1RB#99	21.77	25.77	30	PASS
Band66	20MHz	16QAM	132322	1RB#49	21.97	25.97	30	PASS
Band66	20MHz	16QAM	132322	1RB#0	21.73	25.73	30	PASS
Band66	20MHz	16QAM	132322	50RB#25	20.69	24.69	30	PASS



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Band66	20MHz	16QAM	132322	50RB#0	20.59	24.59	30	PASS
Band66	20MHz	16QAM	132322	50RB#50	20.64	24.64	30	PASS
Band66	20MHz	16QAM	132322	100RB#0	20.66	24.66	30	PASS
Band66	20MHz	16QAM	132572	1RB#99	21.70	25.7	30	PASS
Band66	20MHz	16QAM	132572	1RB#49	21.73	25.73	30	PASS
Band66	20MHz	16QAM	132572	1RB#0	21.80	25.8	30	PASS
Band66	20MHz	16QAM	132572	50RB#50	20.53	24.53	30	PASS
Band66	20MHz	16QAM	132572	50RB#25	20.80	24.8	30	PASS
Band66	20MHz	16QAM	132572	50RB#0	20.56	24.56	30	PASS
Band66	20MHz	16QAM	132572	100RB#0	20.45	24.45	30	PASS

**Remark:**

a: For getting the EIRP (Efficient Isotropic Radiated Power), the following formula should be taken to calculate it,  
 ERP [dBm] = Conducted Power [dBm] + Gain [dBd]  
 EIRP [dBm] = Conducted Power [dBm] + Gain [dBi]



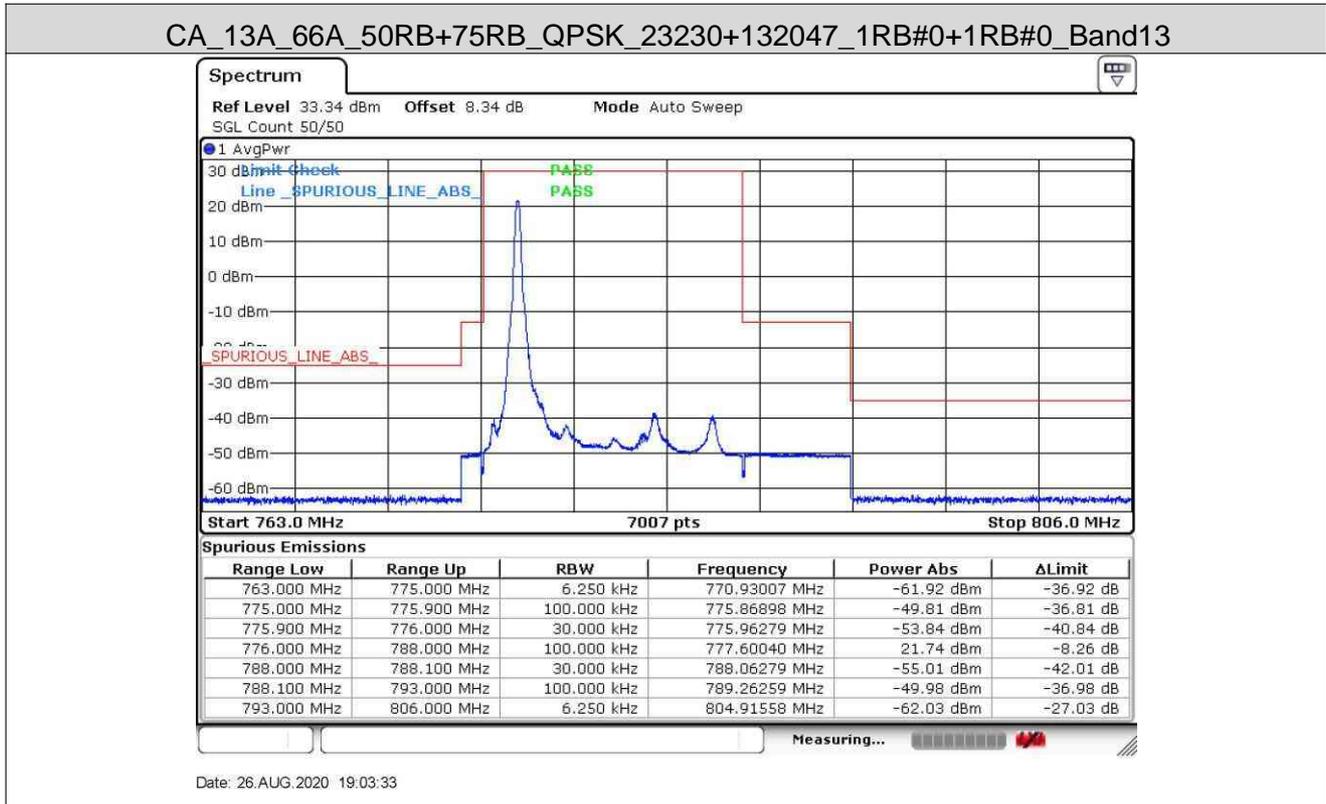
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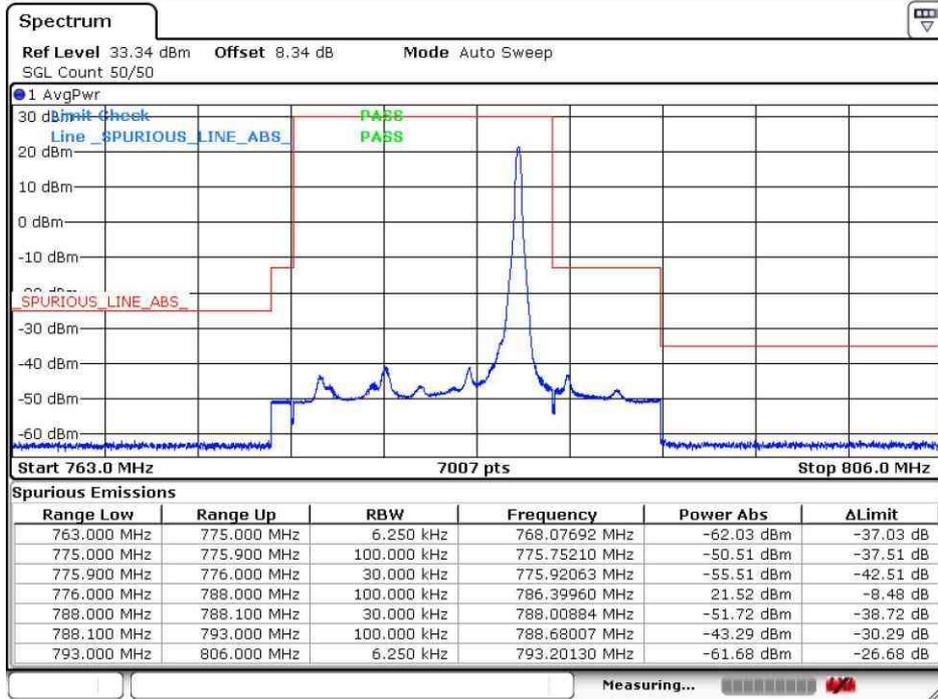
## 2 Band Edges Compliance

### 1.1.2. For LTE

#### 2.1.1 Test Band = LTE Band CA\_13A\_66A

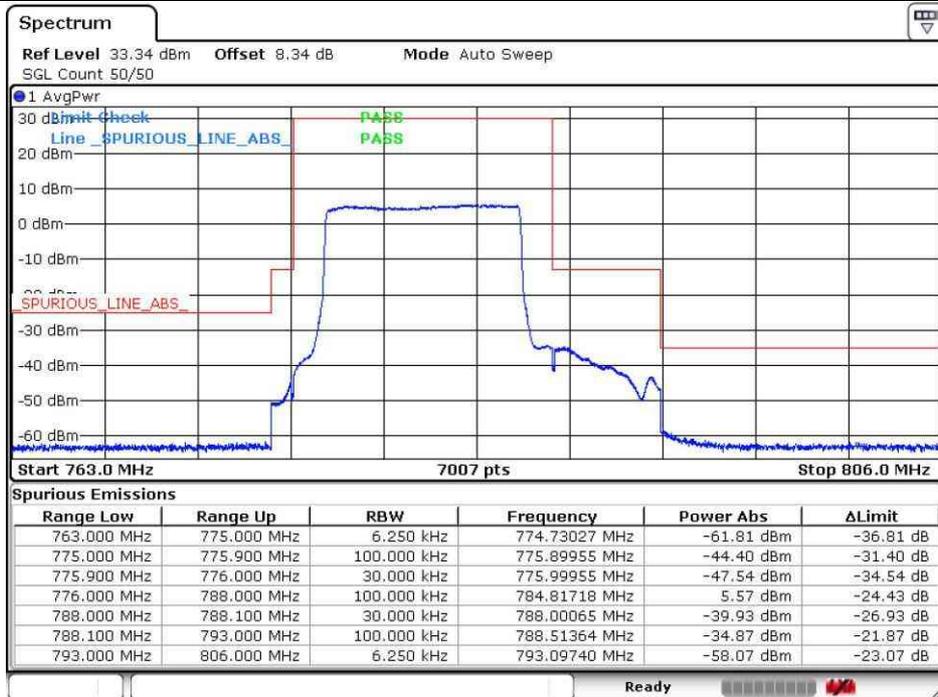


CA\_13A\_66A\_50RB+75RB\_QPSK\_23230+132597\_1RB#49+1RB#74\_Band13



Date: 26.AUG.2020 19:07:12

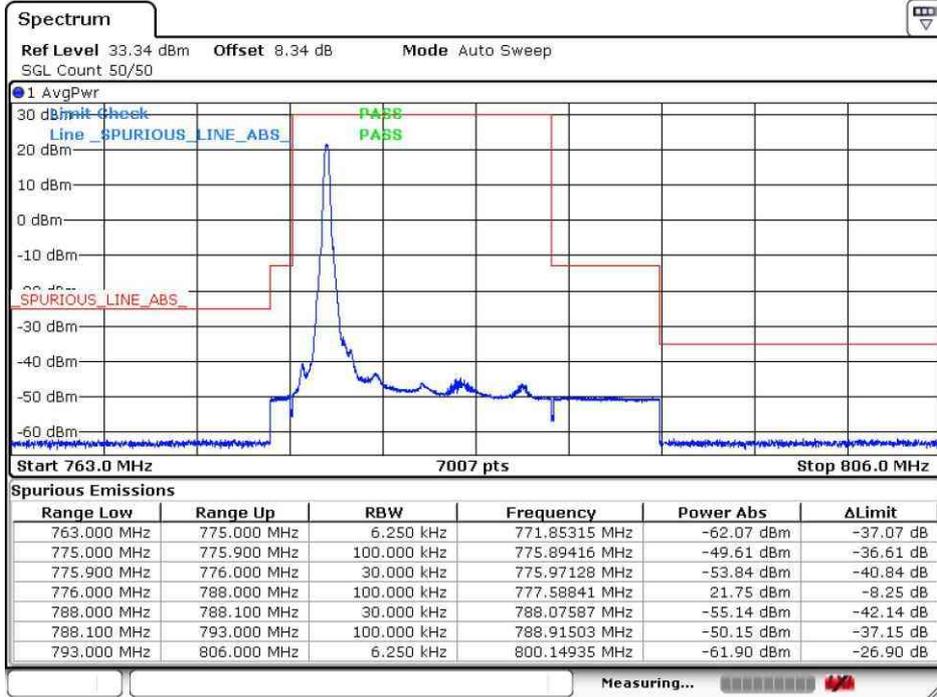
CA\_13A\_66A\_50RB+75RB\_QPSK\_23230+132597\_50RB#0+75RB#0\_Band13



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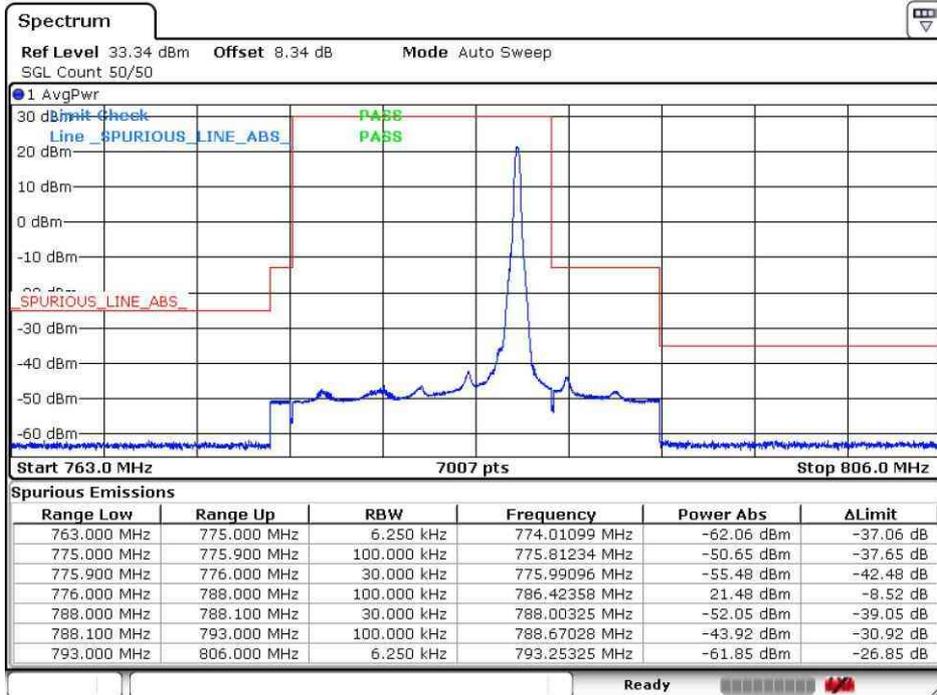


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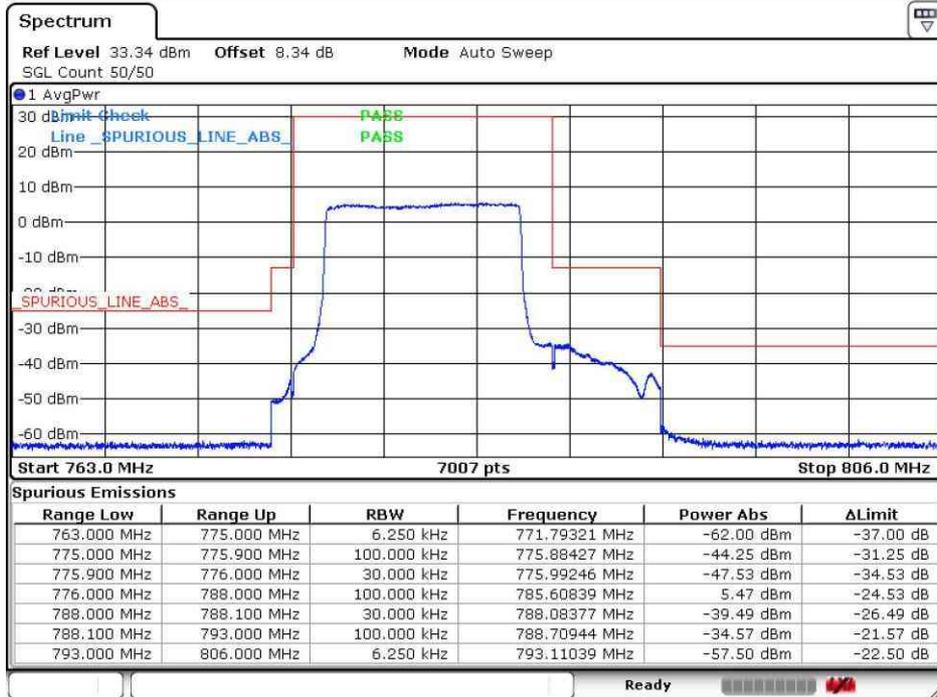
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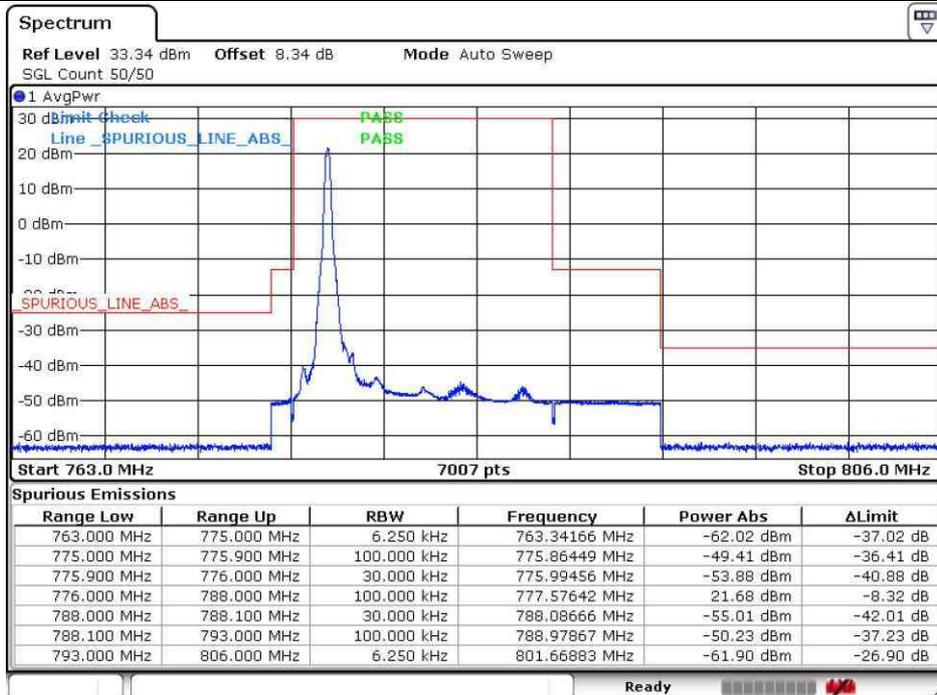


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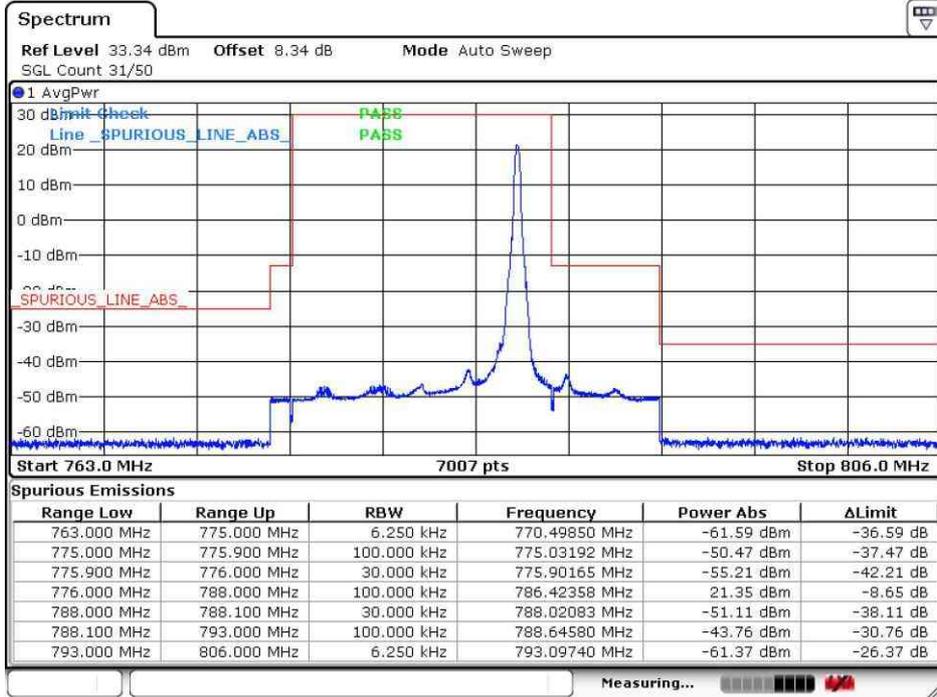
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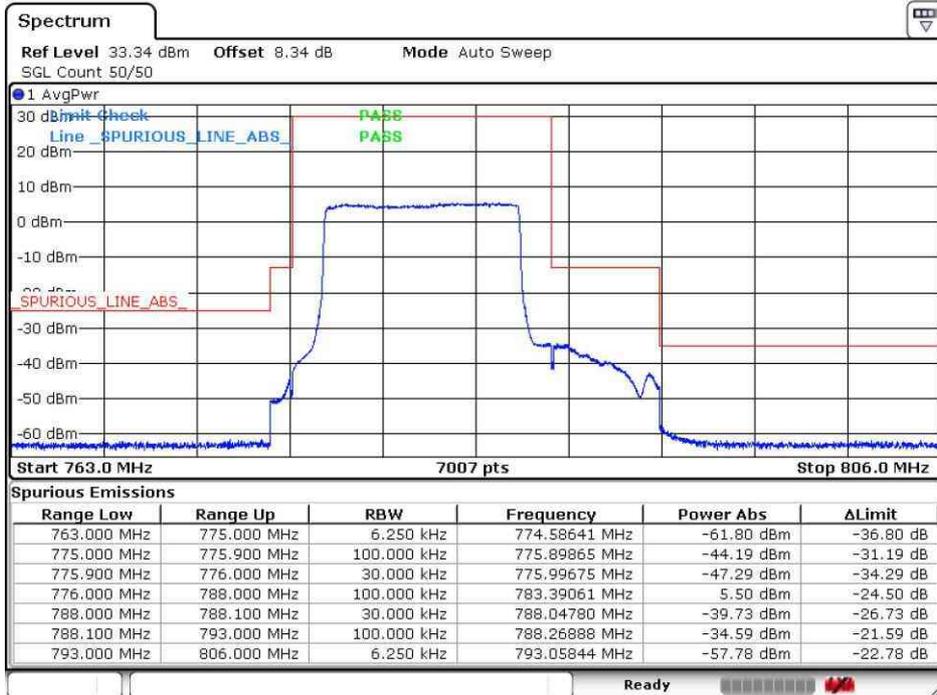
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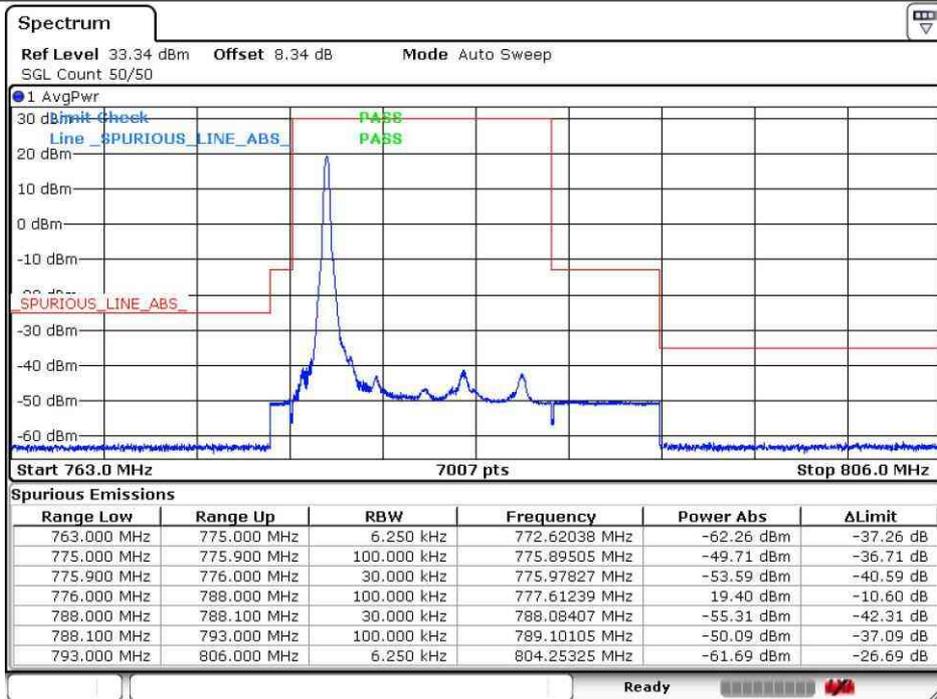
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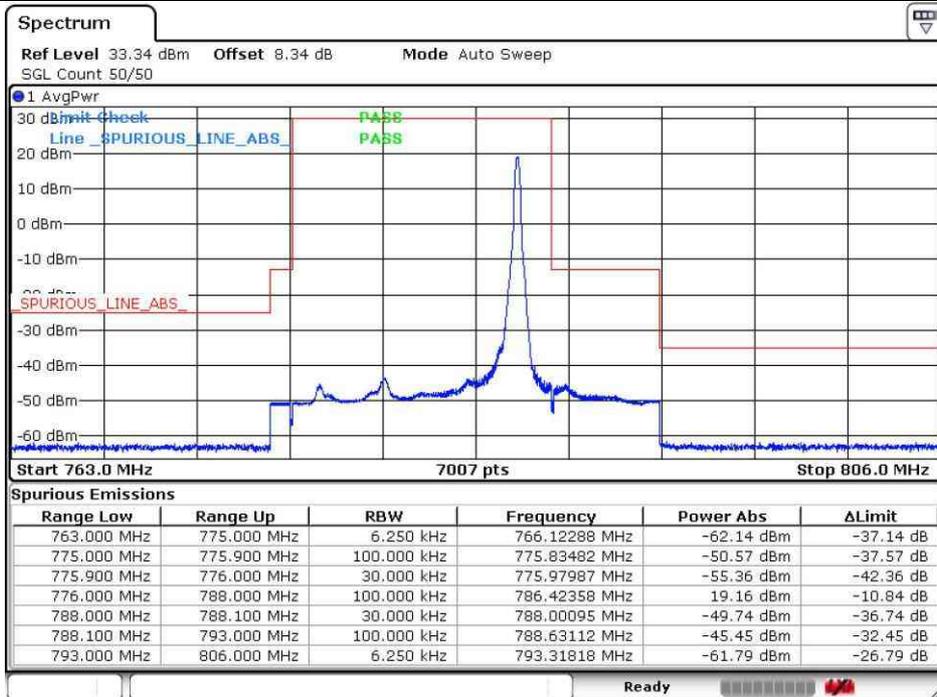


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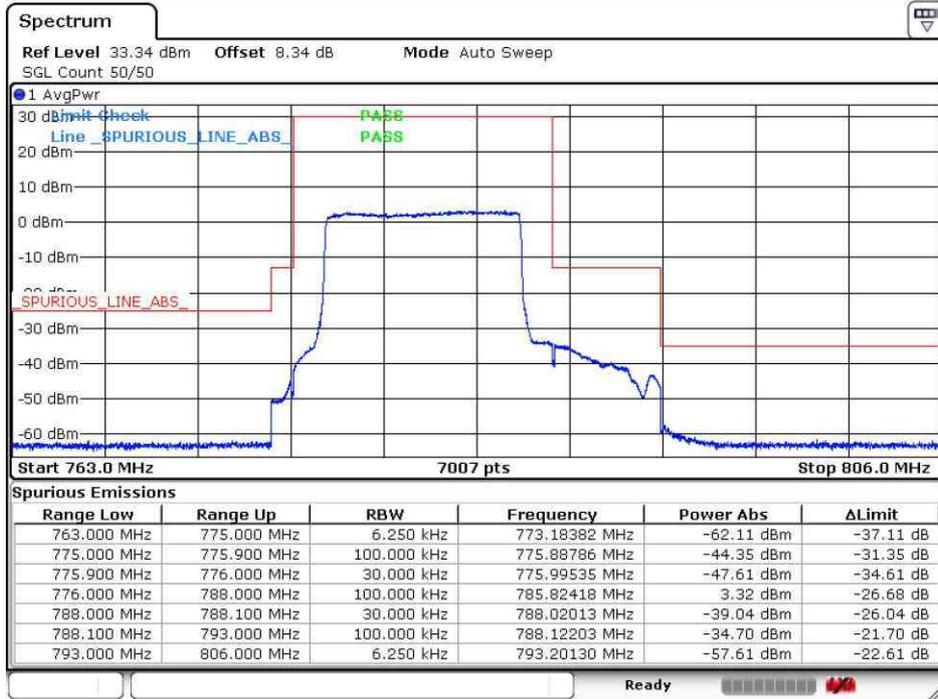
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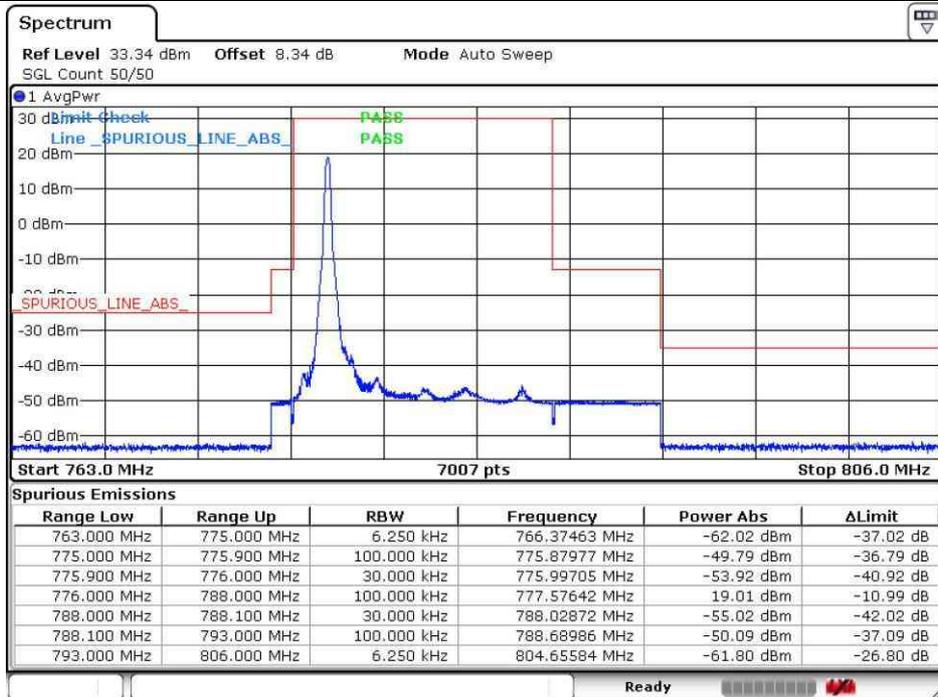


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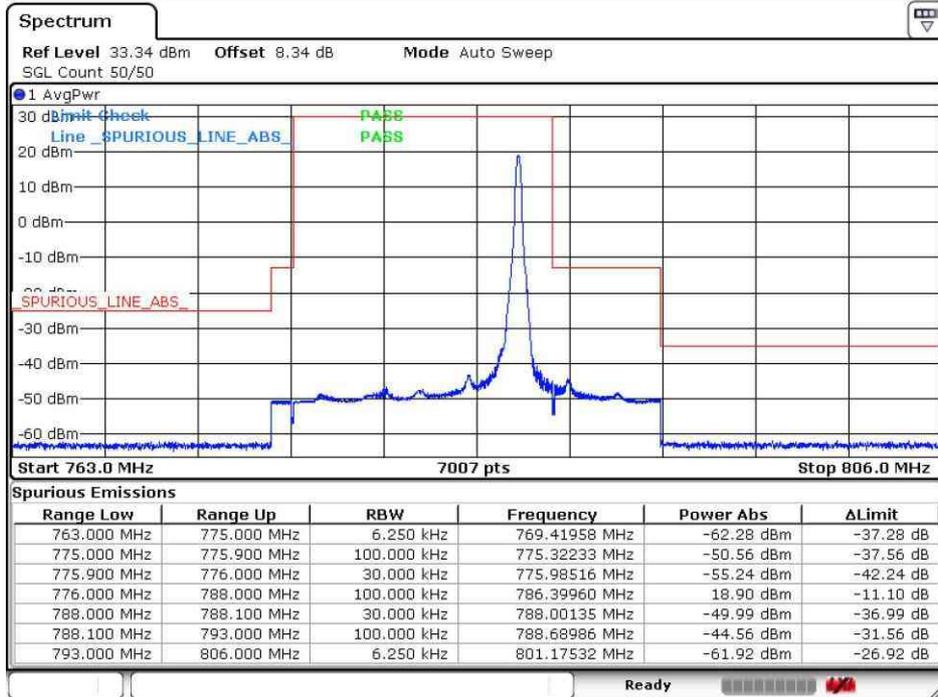


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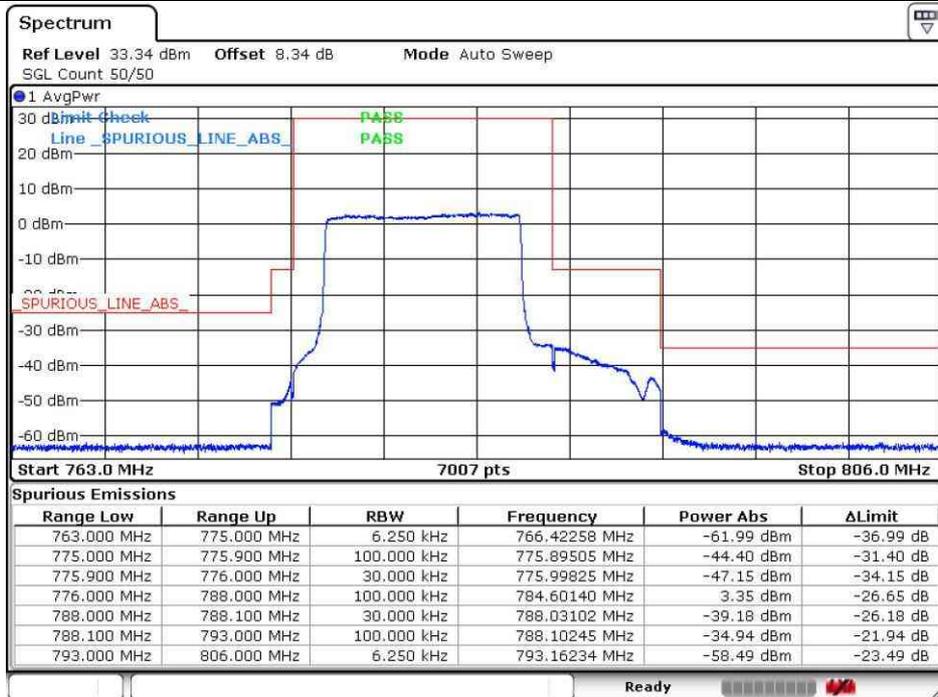


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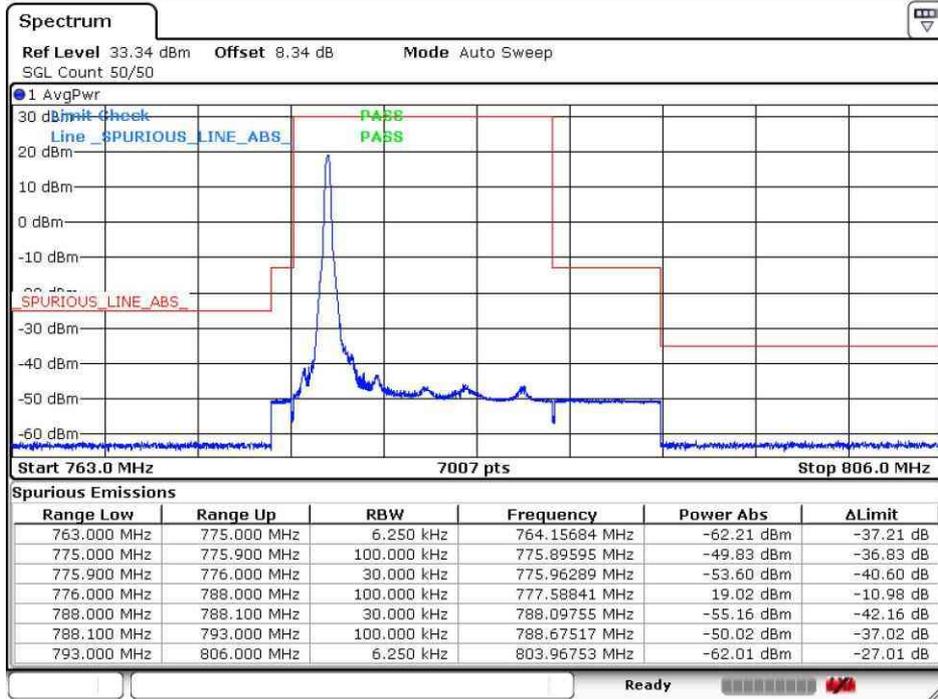
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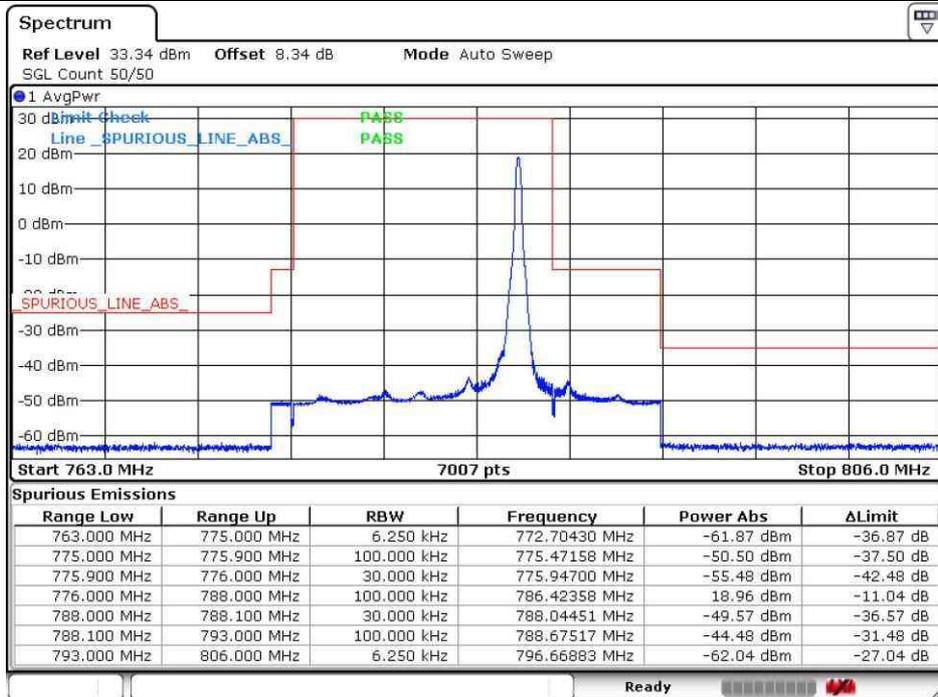


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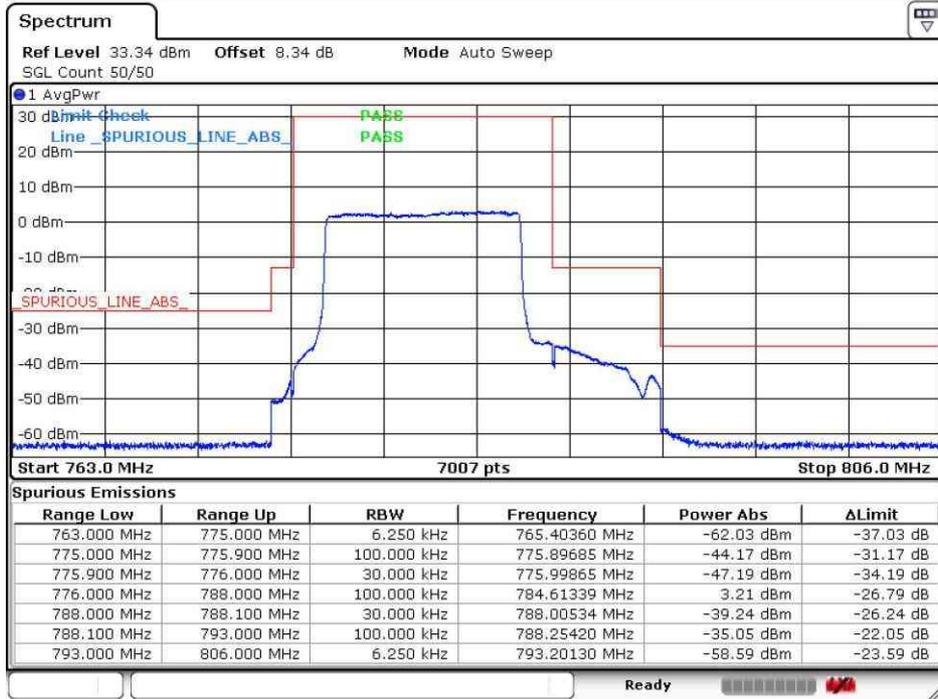
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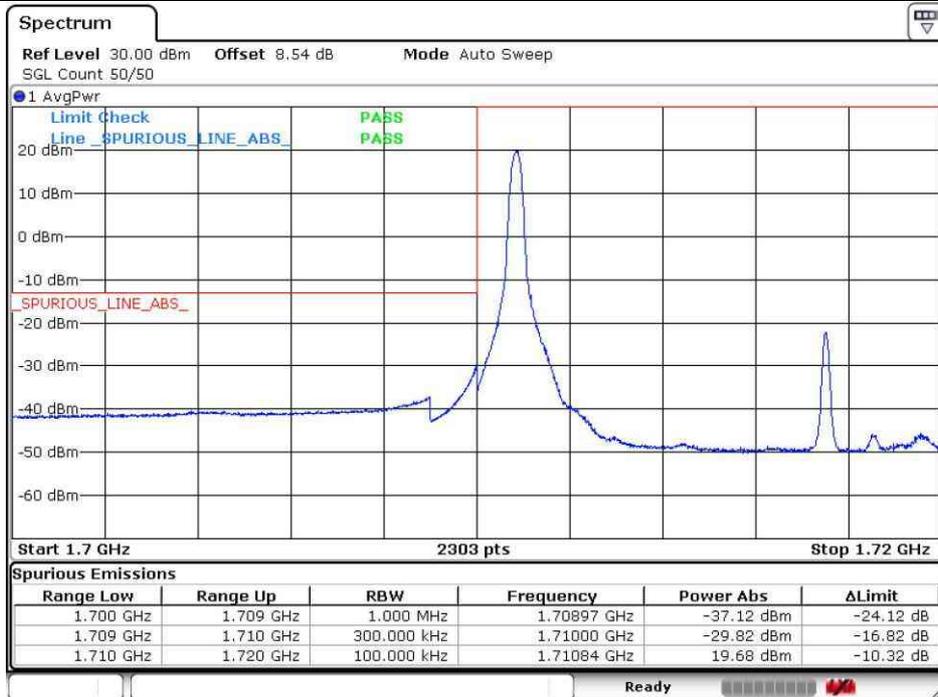


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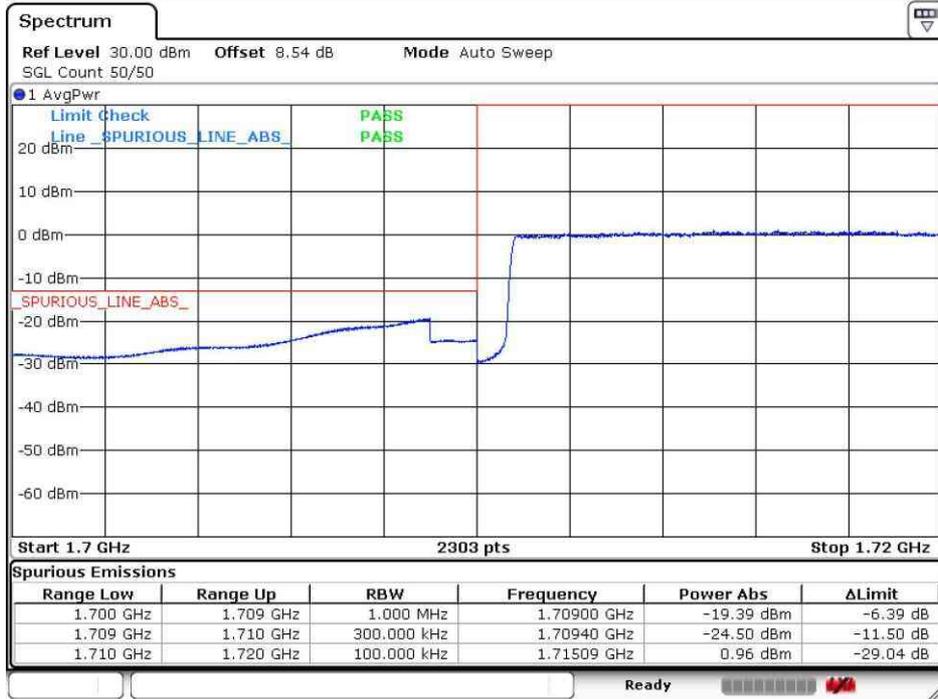
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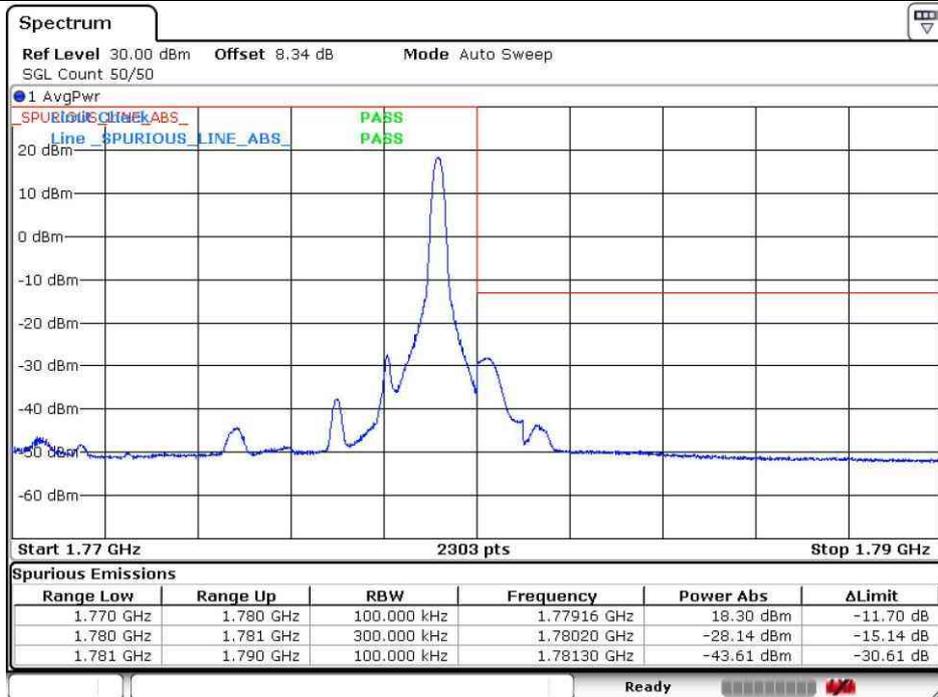


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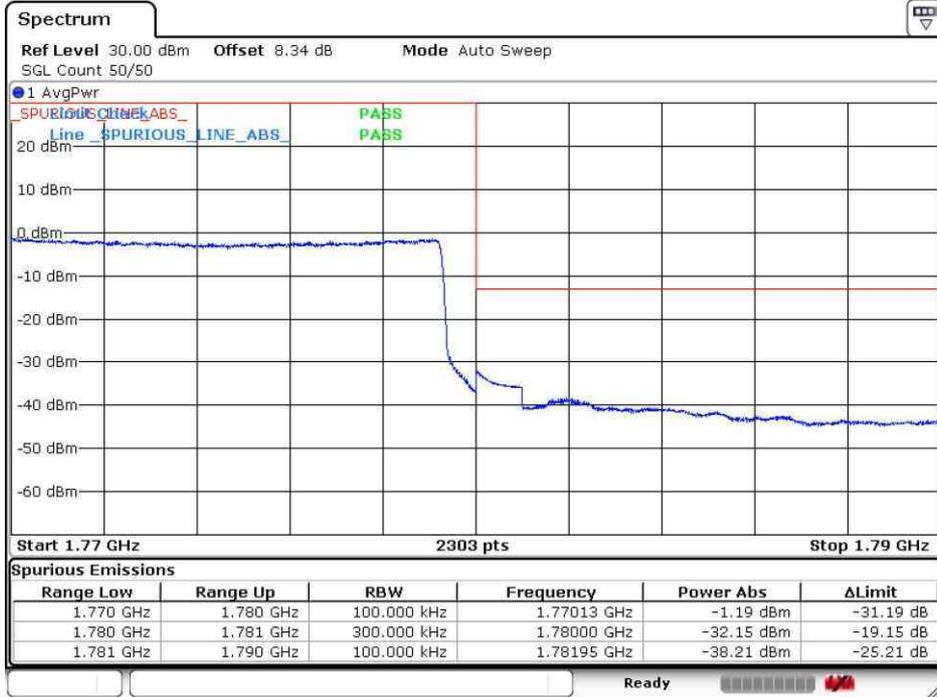
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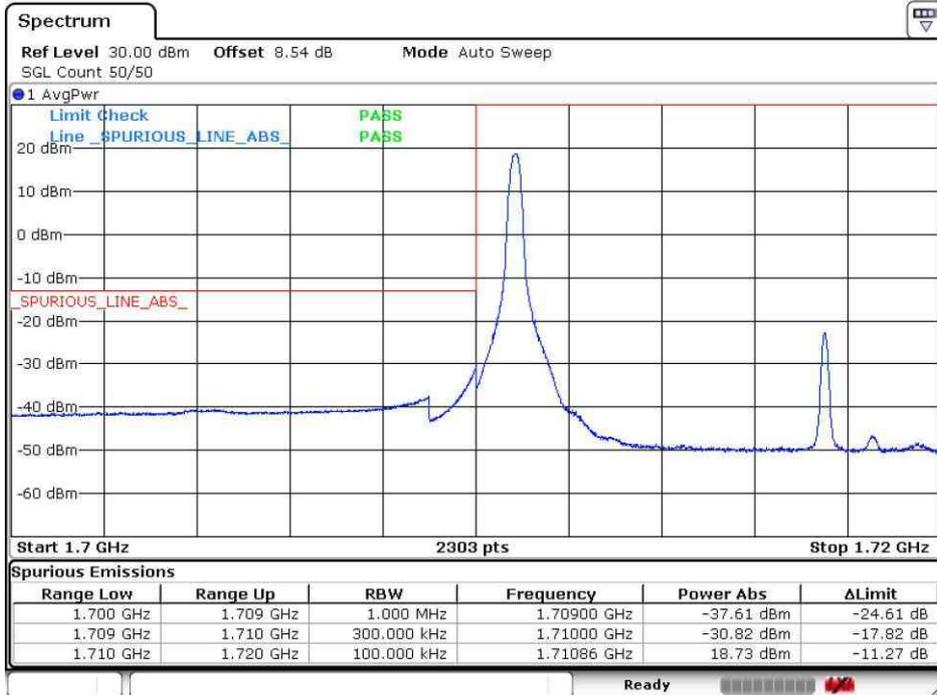


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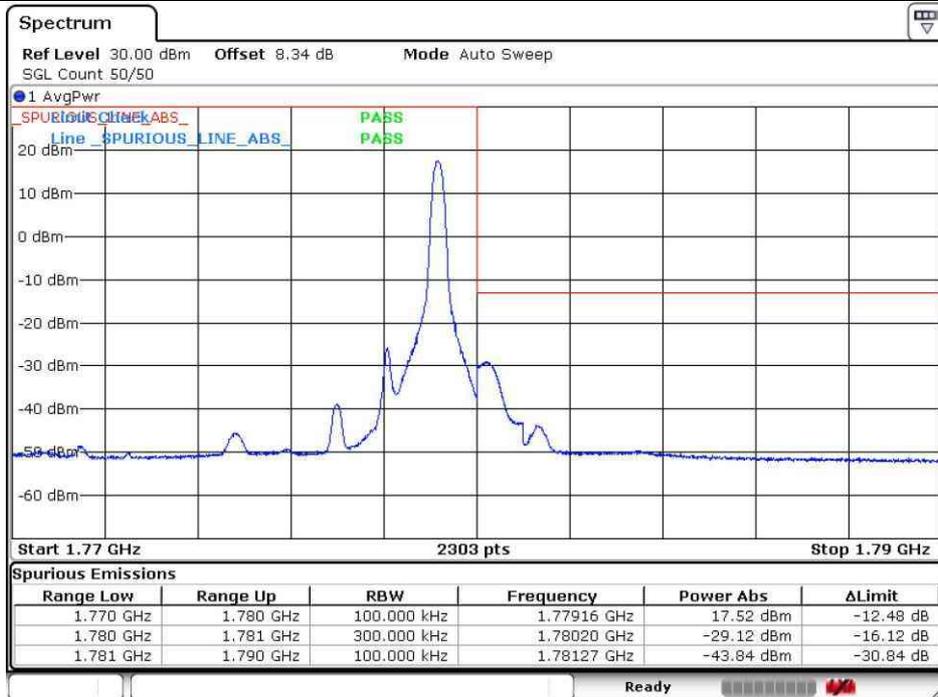


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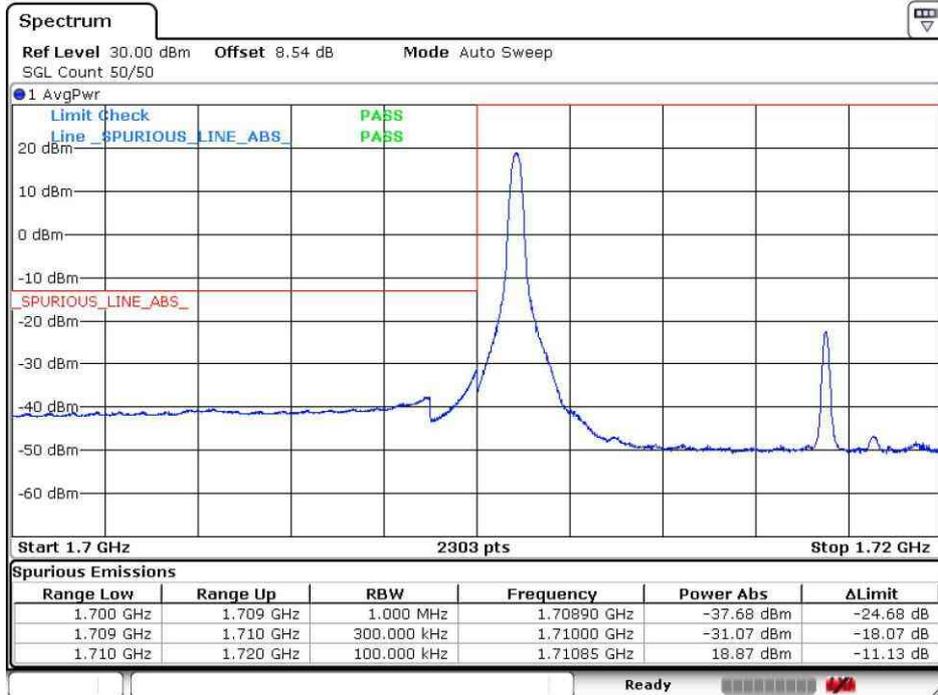


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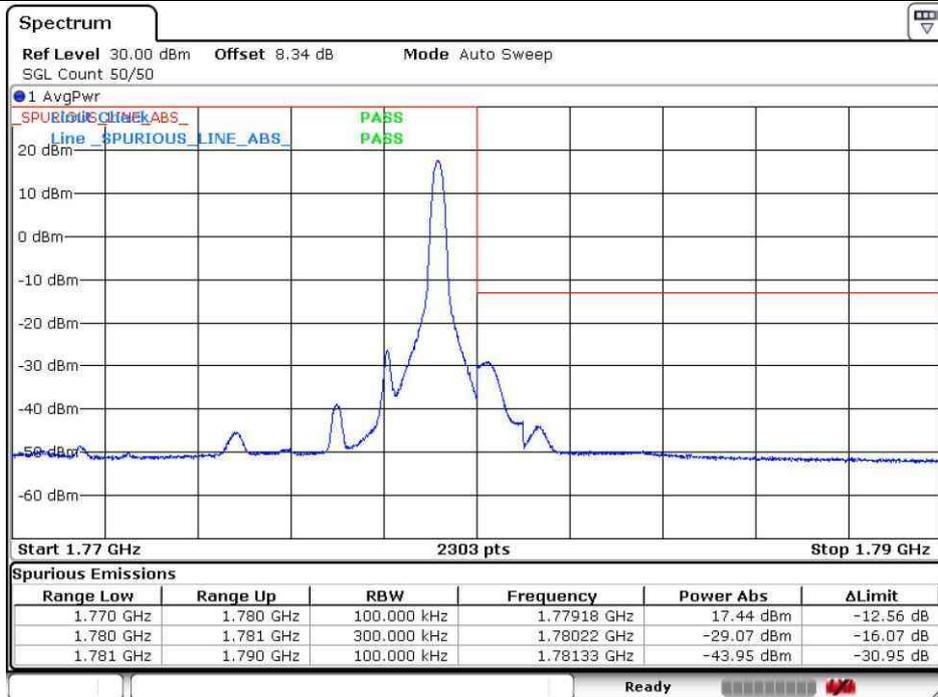


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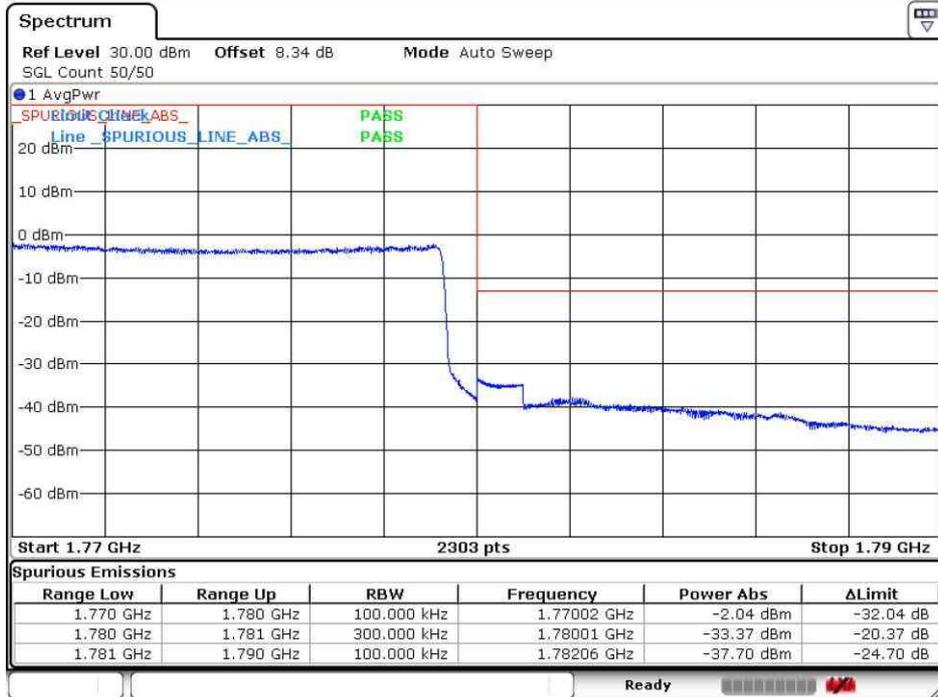
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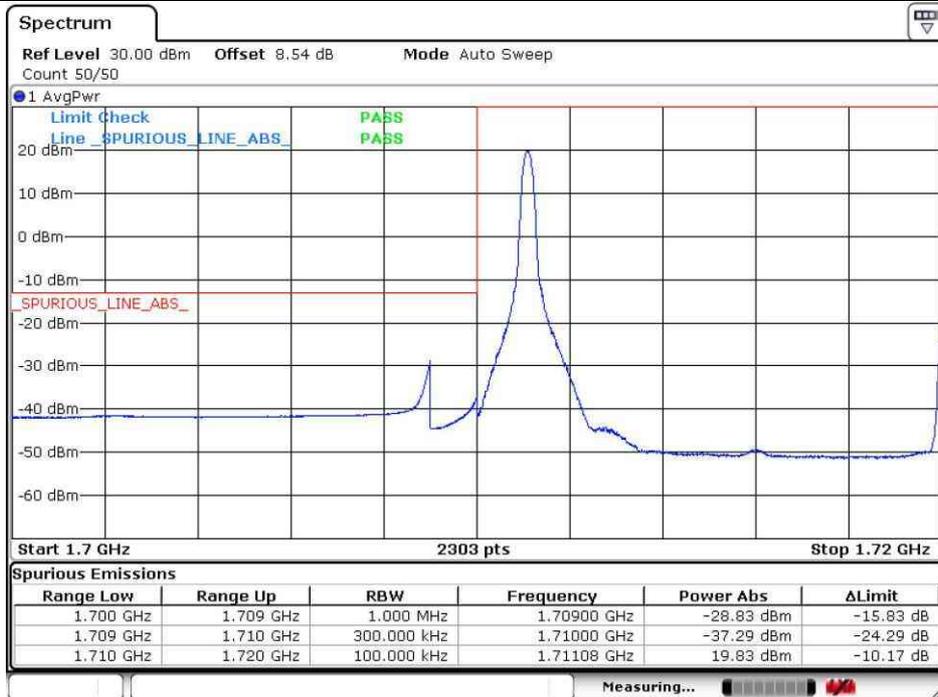


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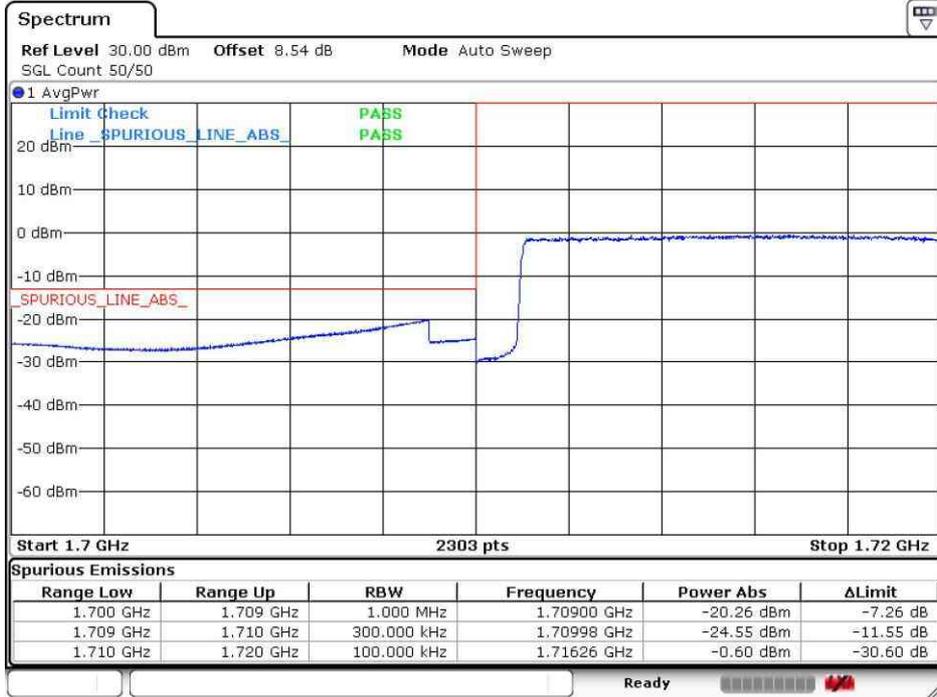
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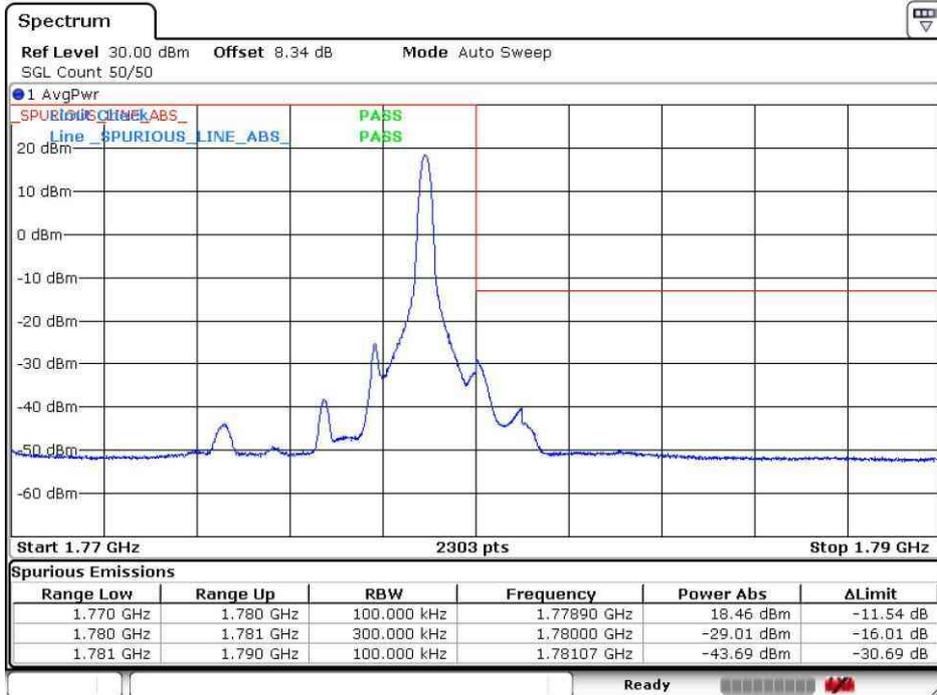


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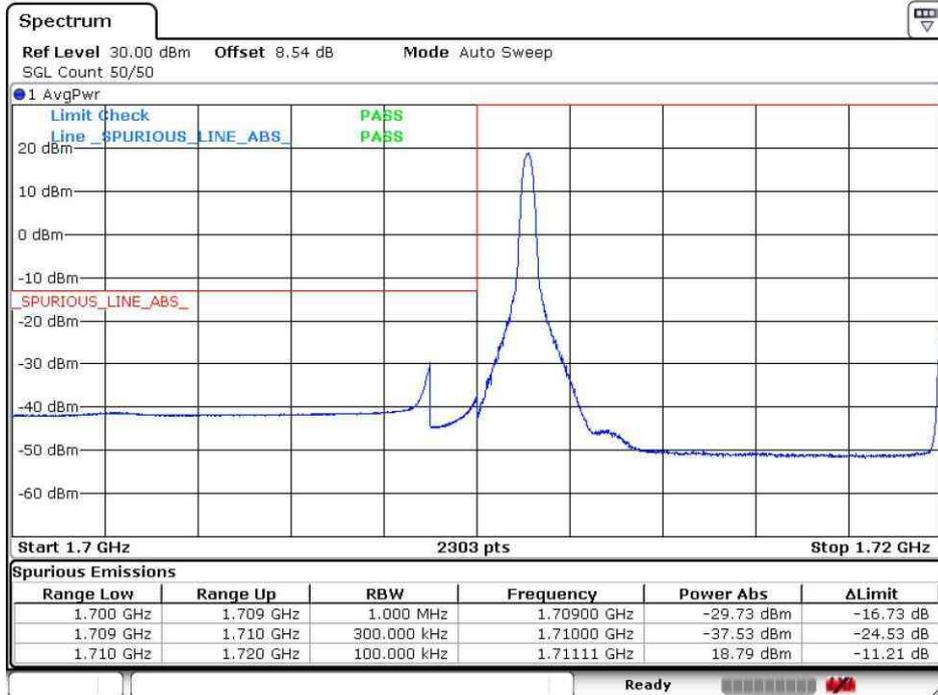


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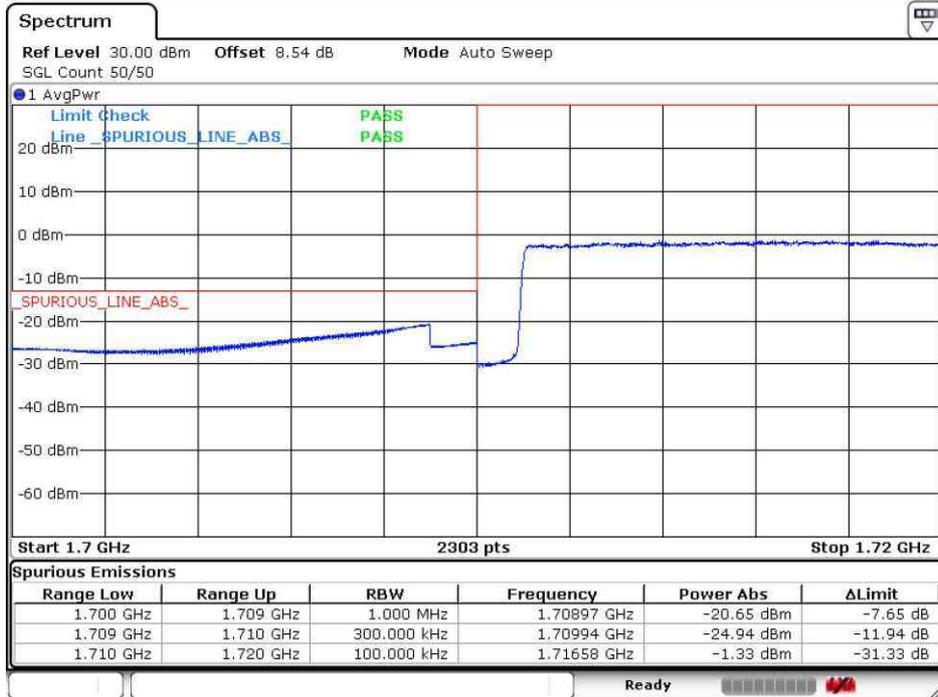
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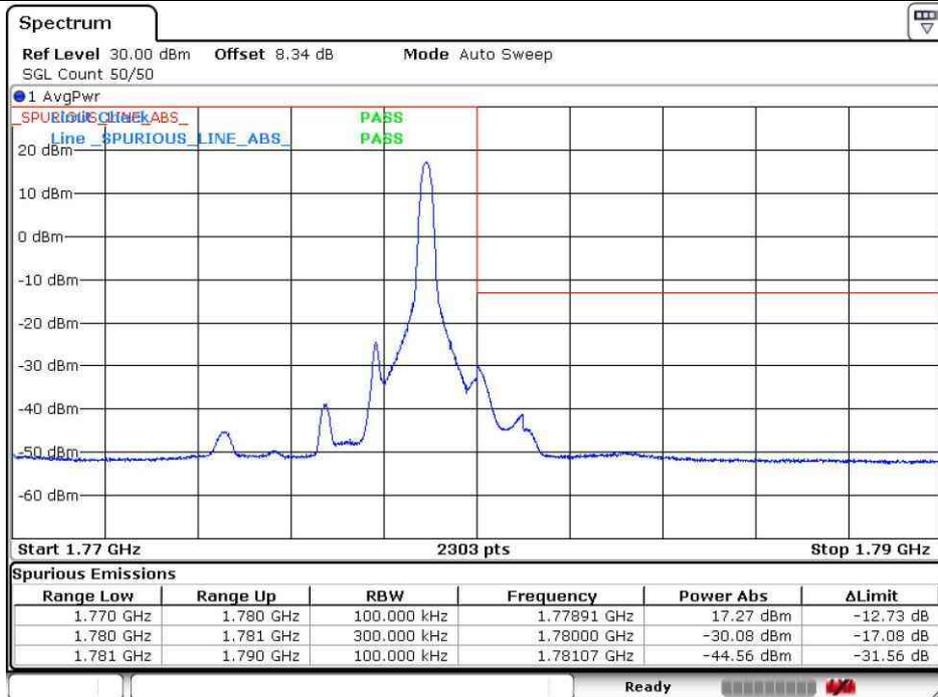


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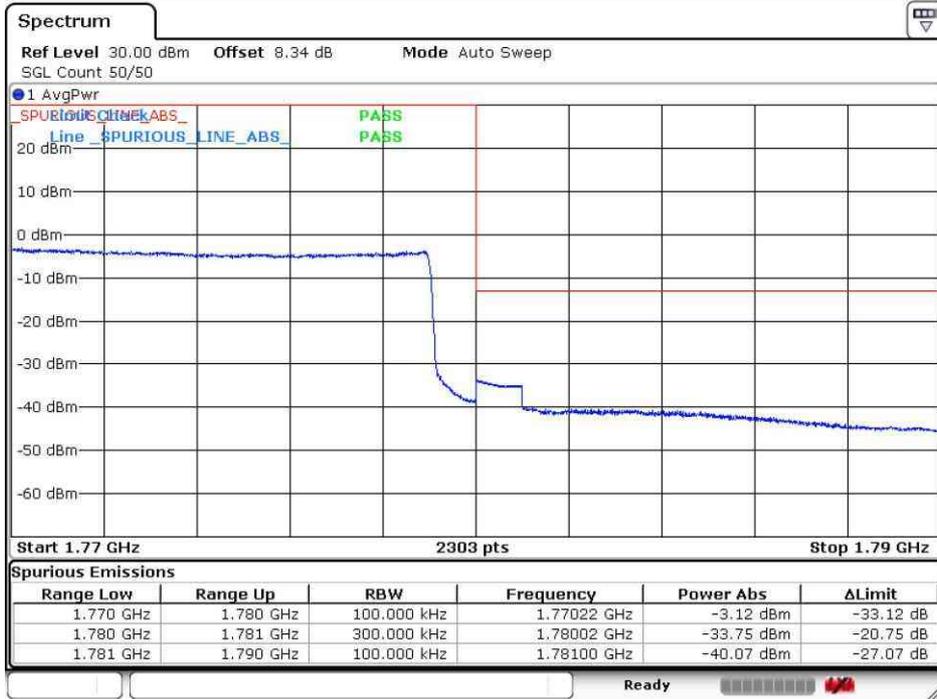
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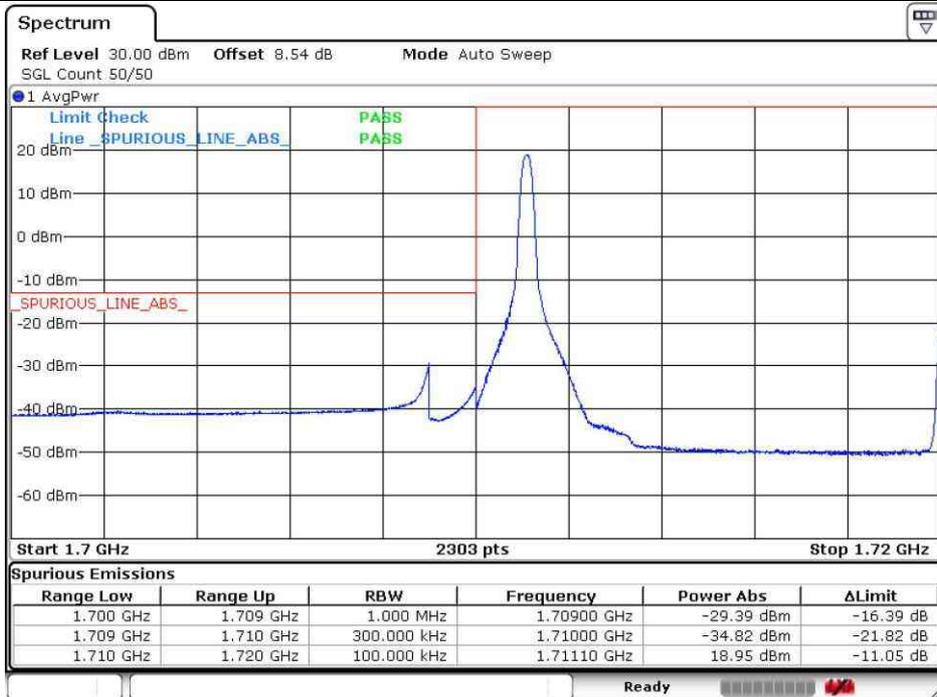


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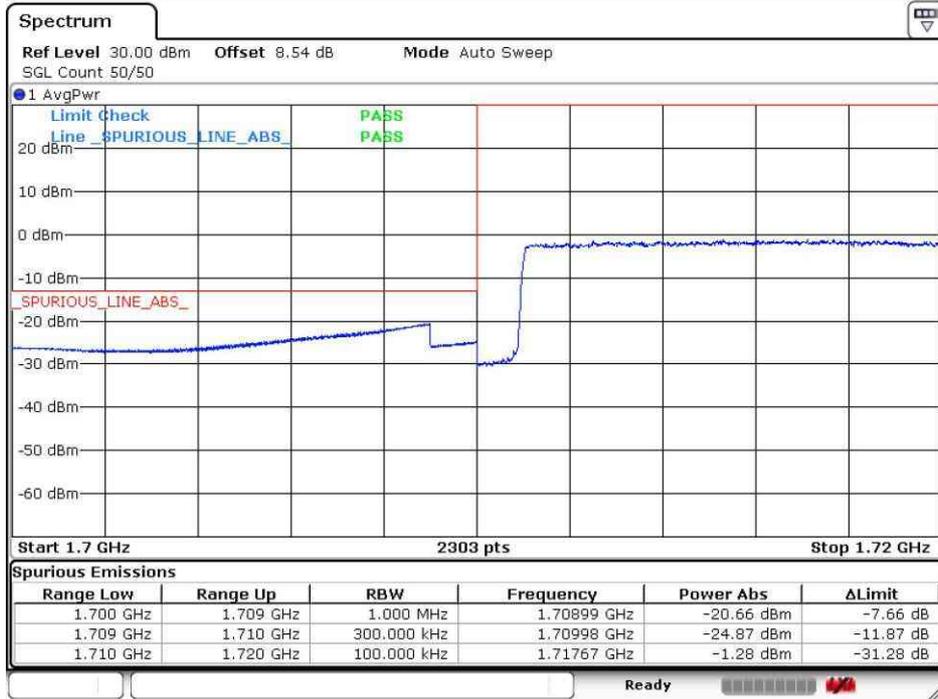
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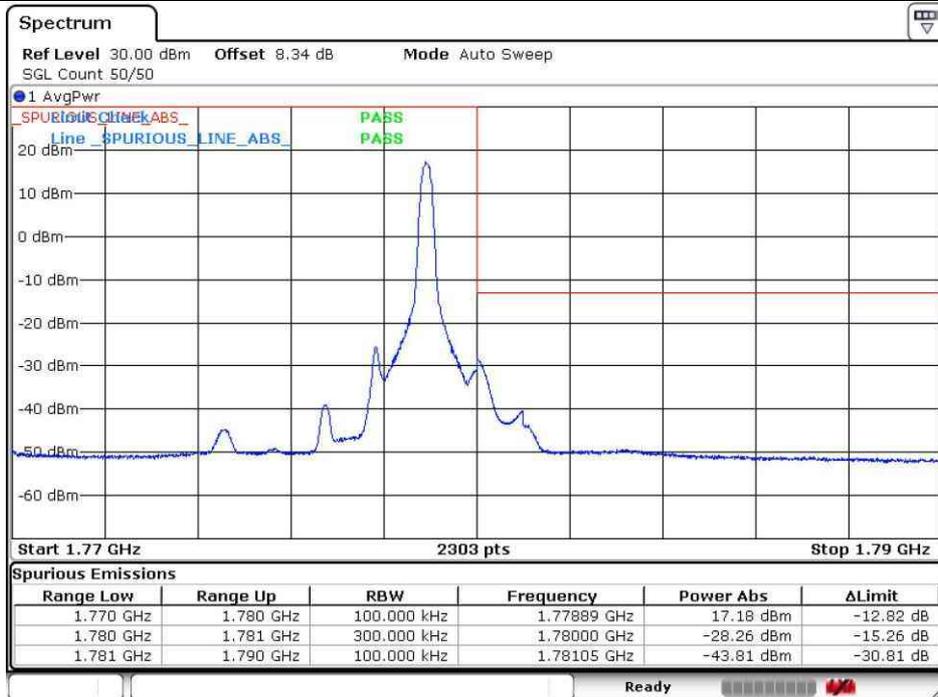


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Date: 26.AUG.2020 21:09:14





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Date: 26.AUG.2020 21:09:43



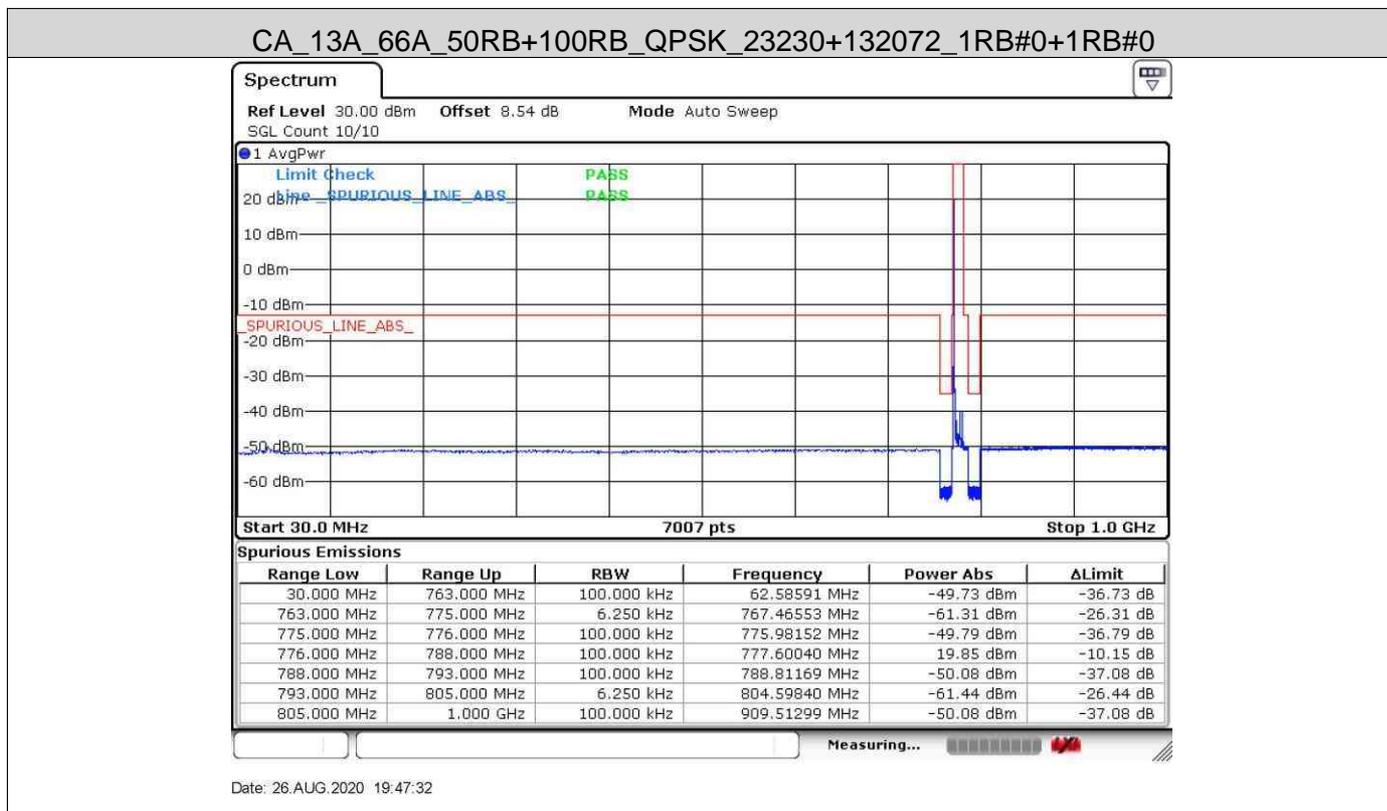
### 3 Spurious Emission at Antenna Terminal

NOTE: 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 narrowband 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.

Part I - Test Plots

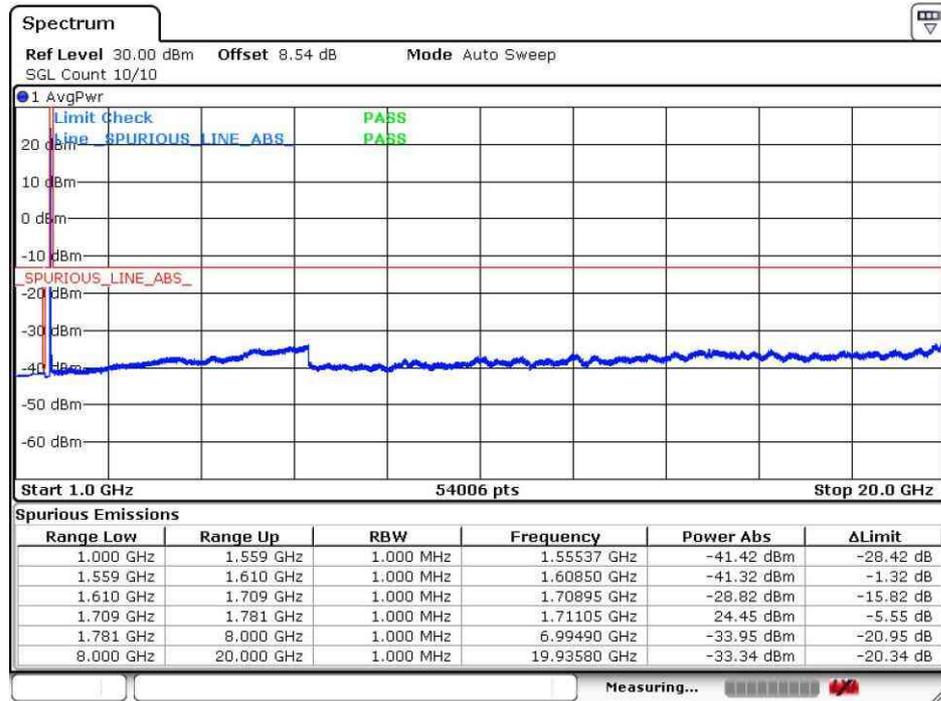
#### 1.1.3. For LTE

#### 3.1.1 Test Band = LTE Band CA\_13A\_66A



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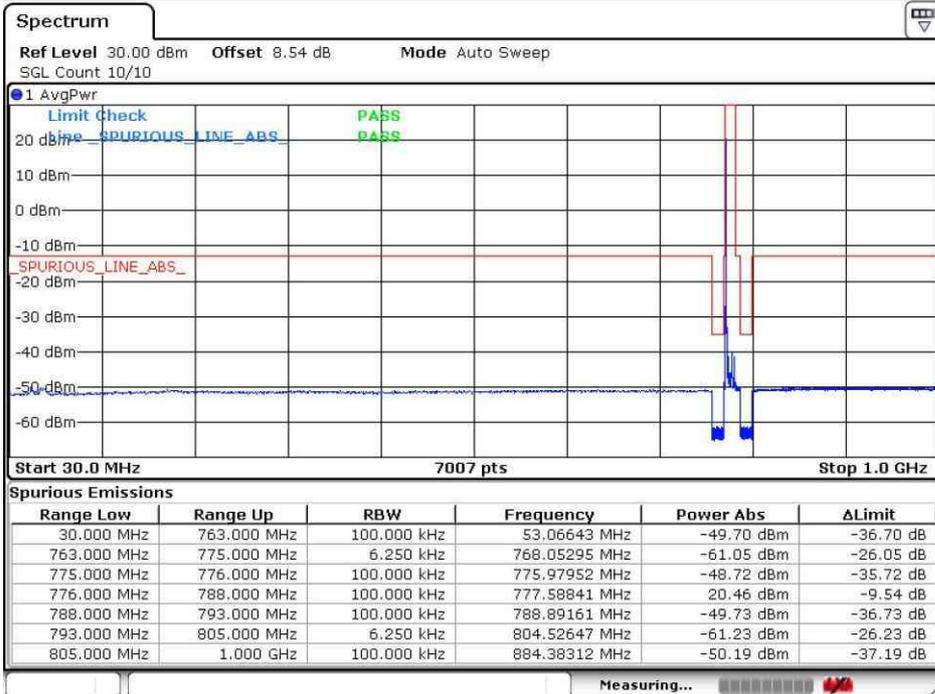
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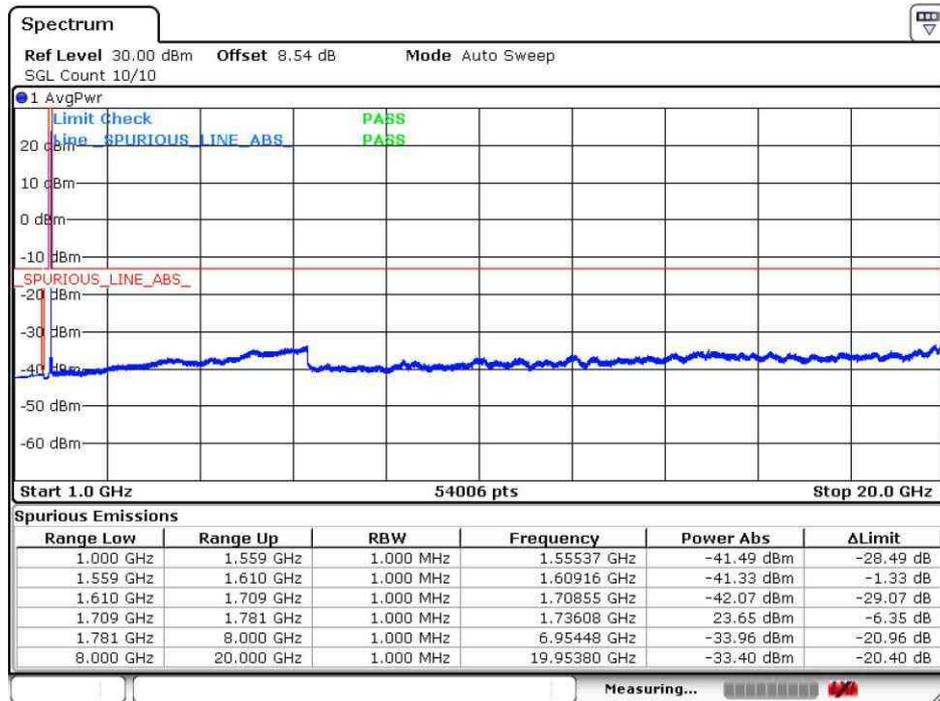
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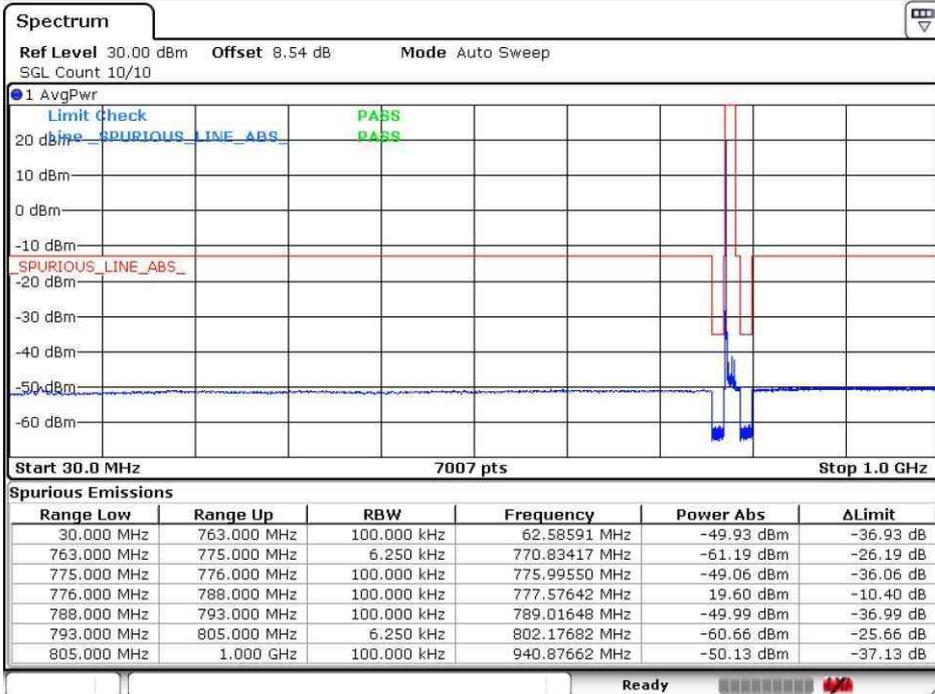


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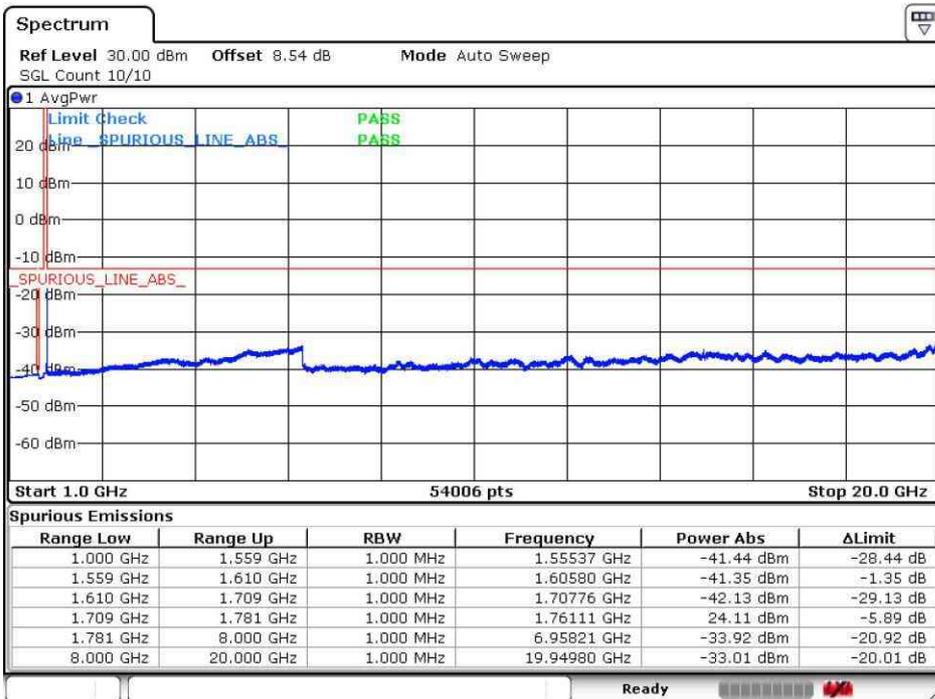
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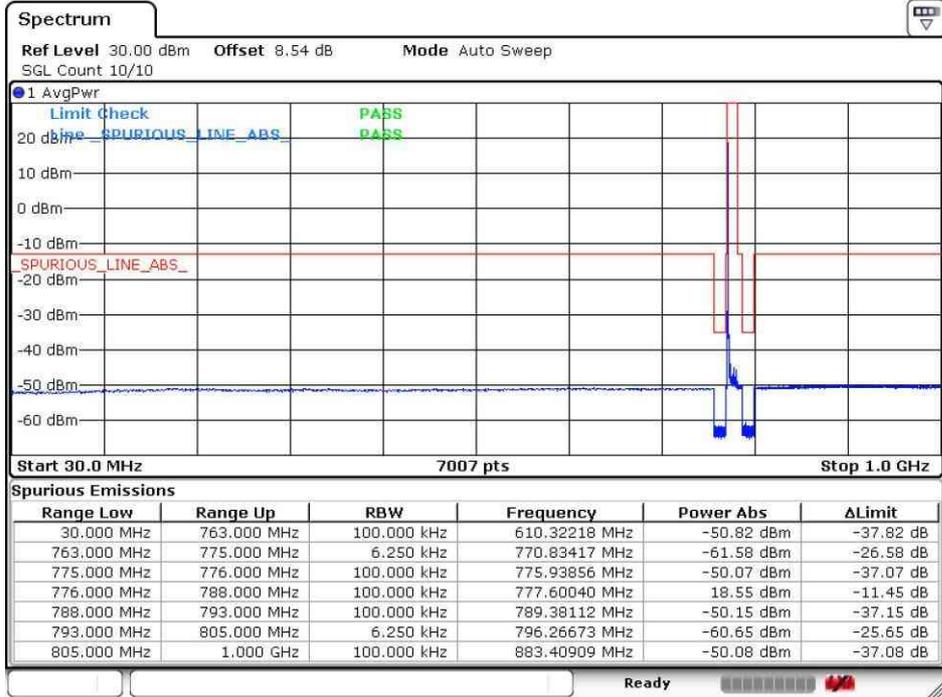


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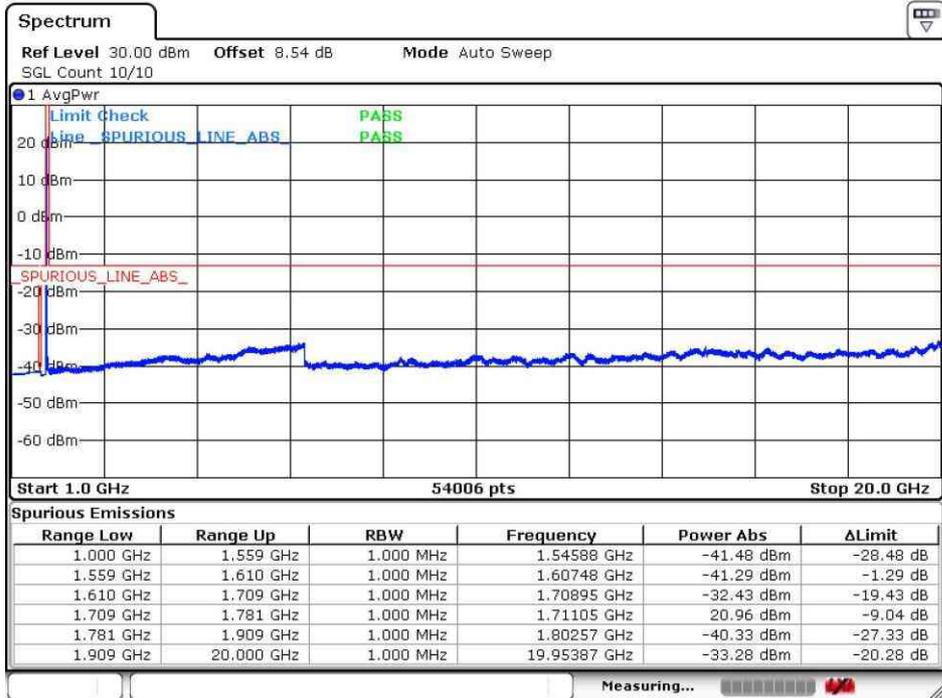
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Date: 7.SEP.2020 21:15:20

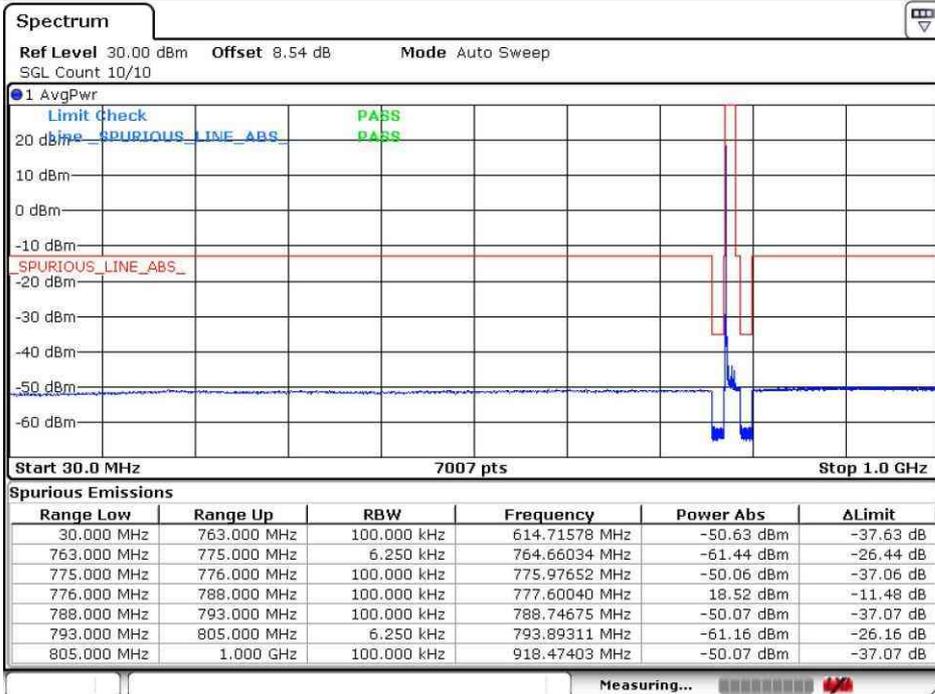


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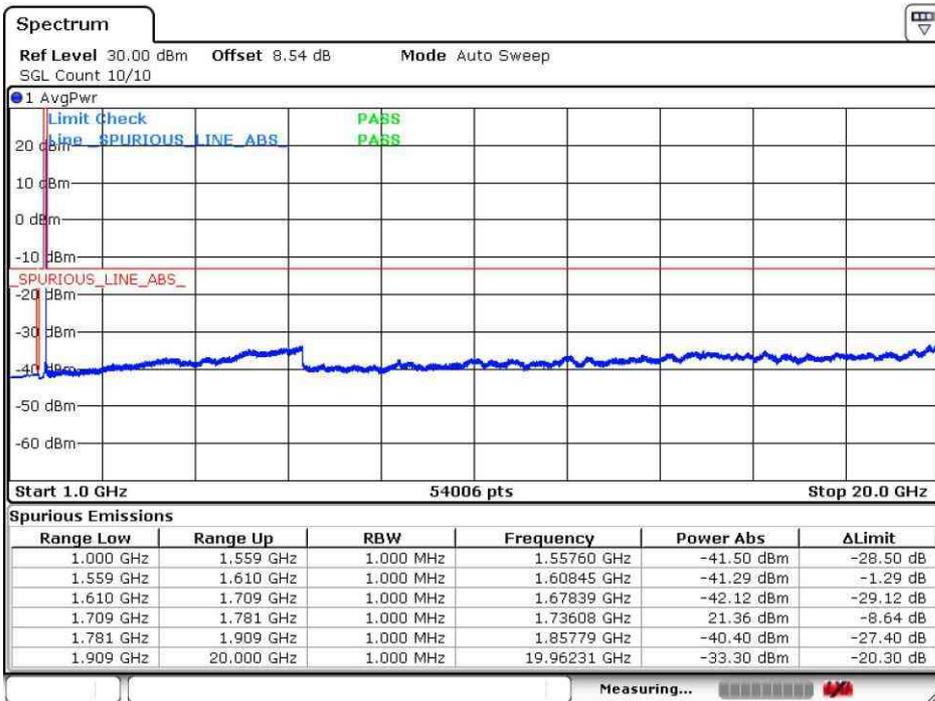
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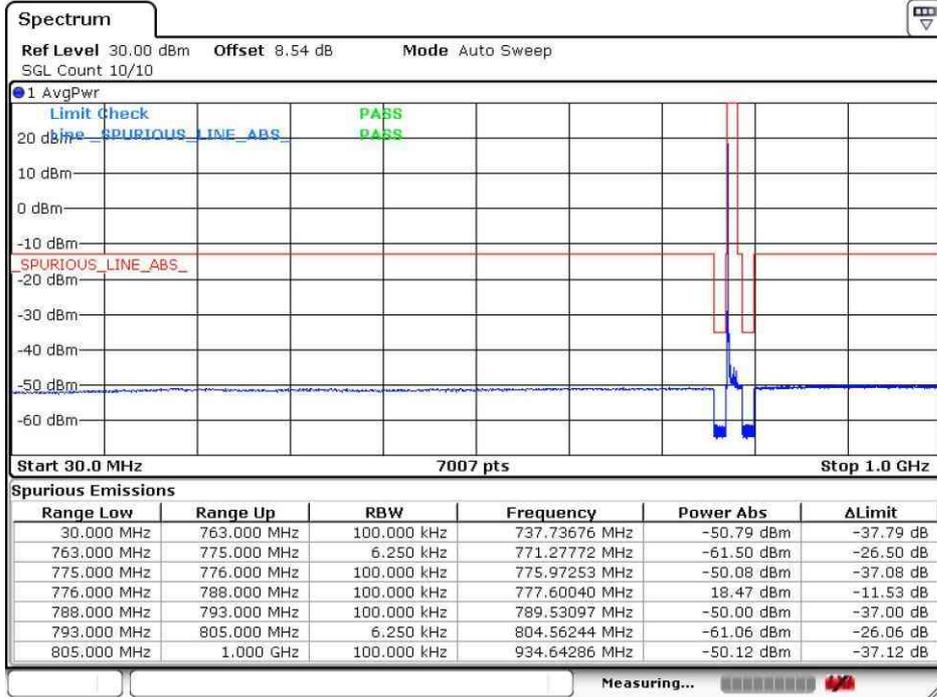


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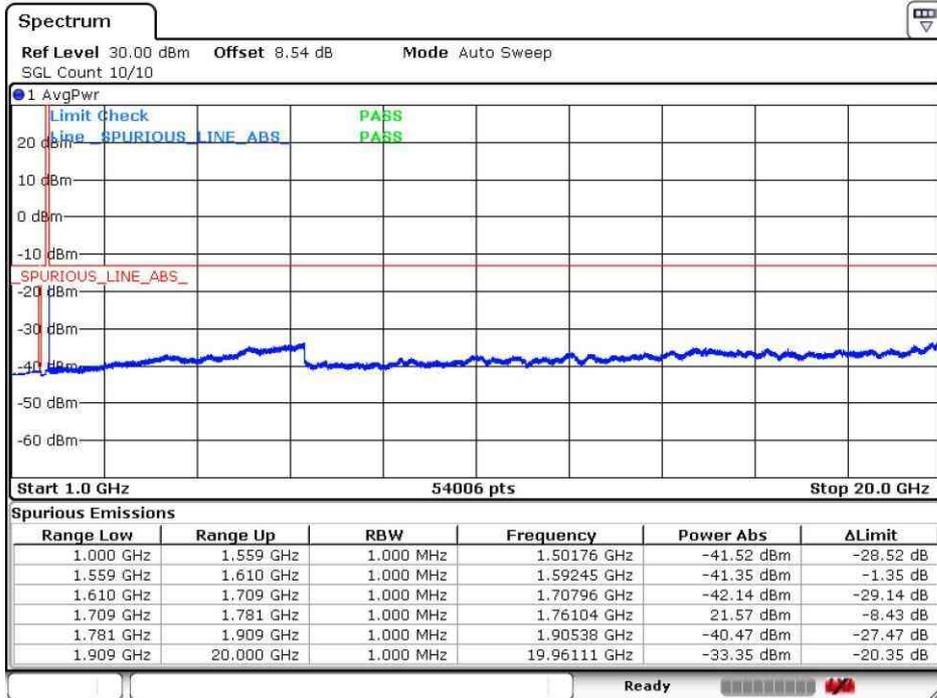
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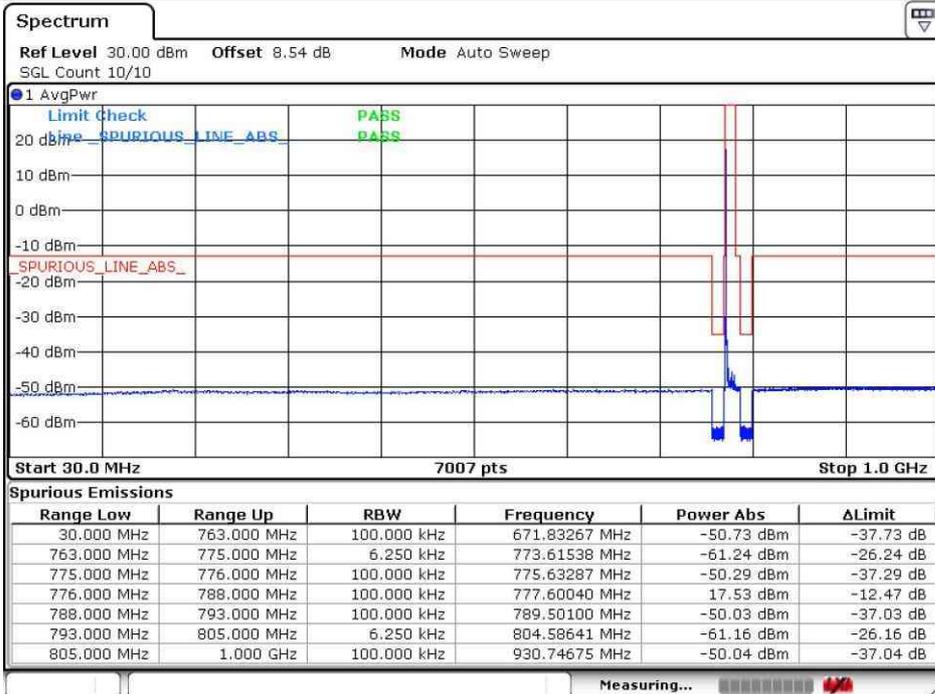


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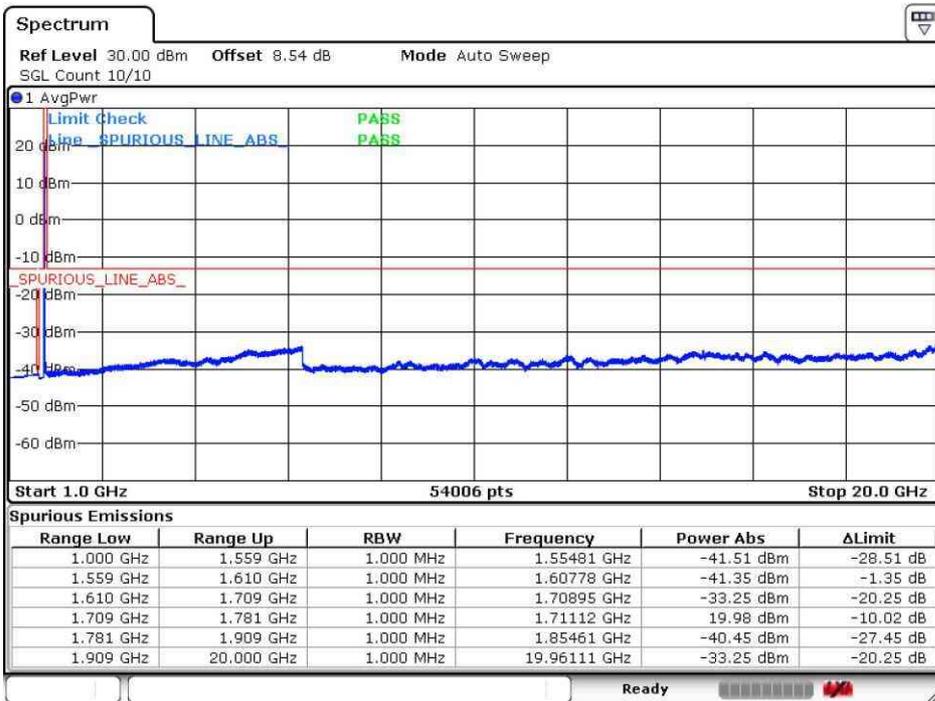


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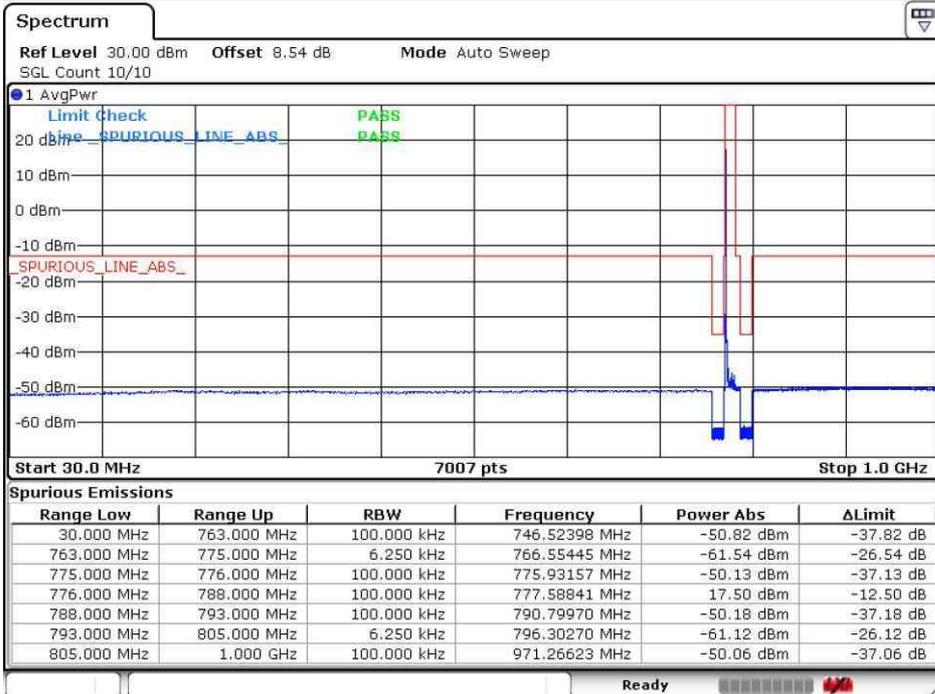


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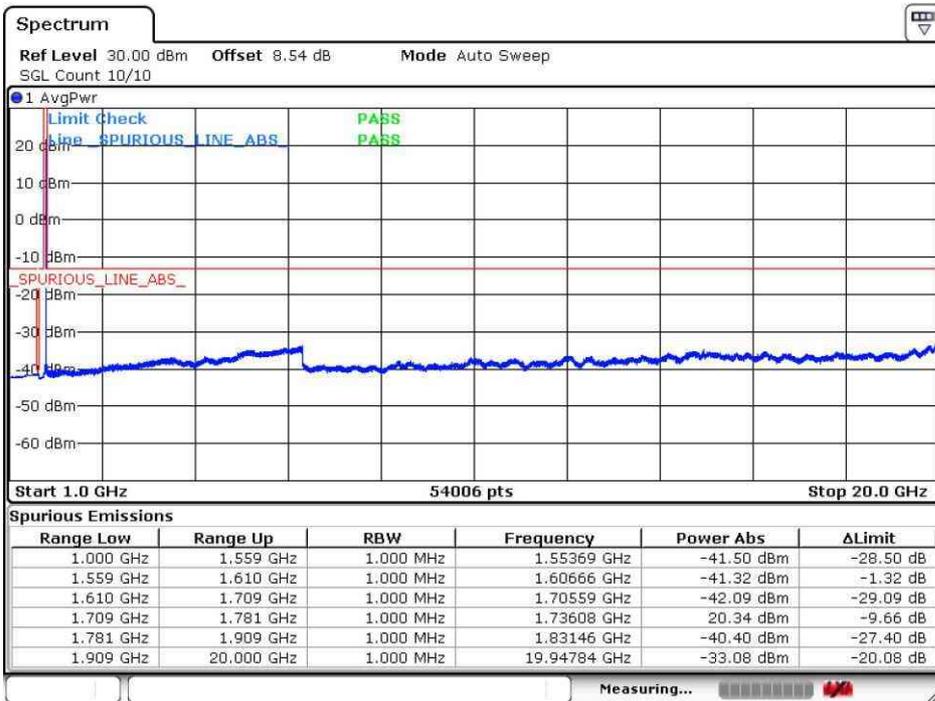
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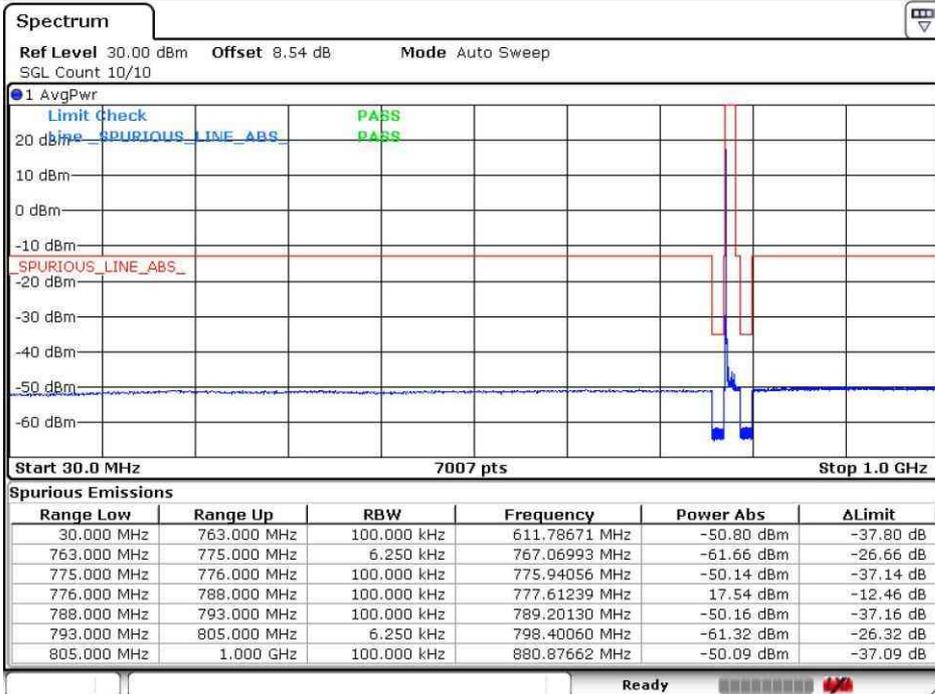


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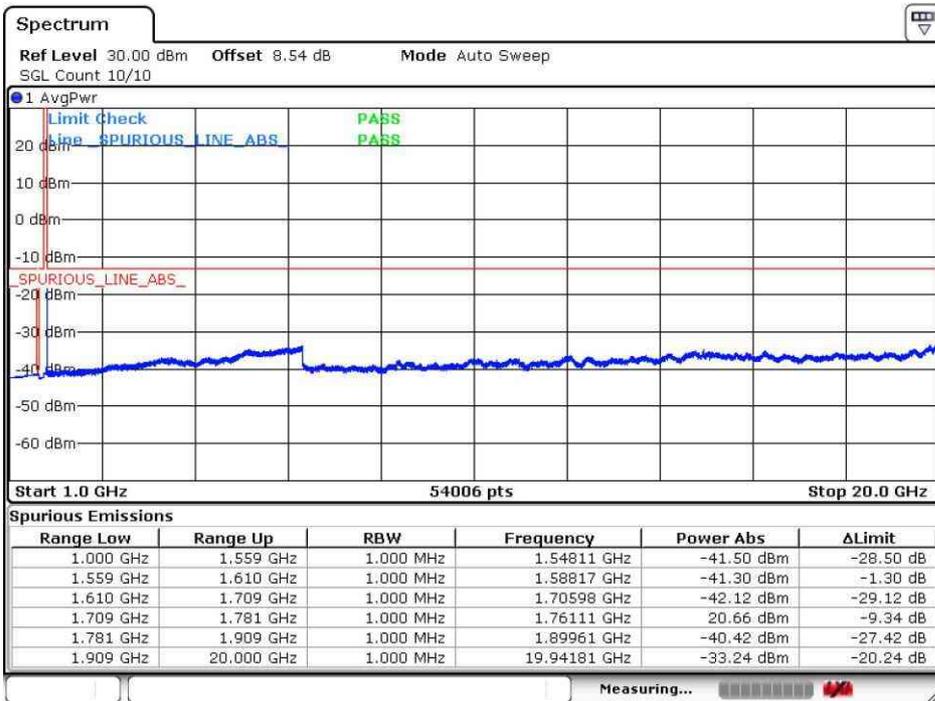
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Date: 7.SEP.2020 20:56:58



Date: 7.SEP.2020 21:25:21



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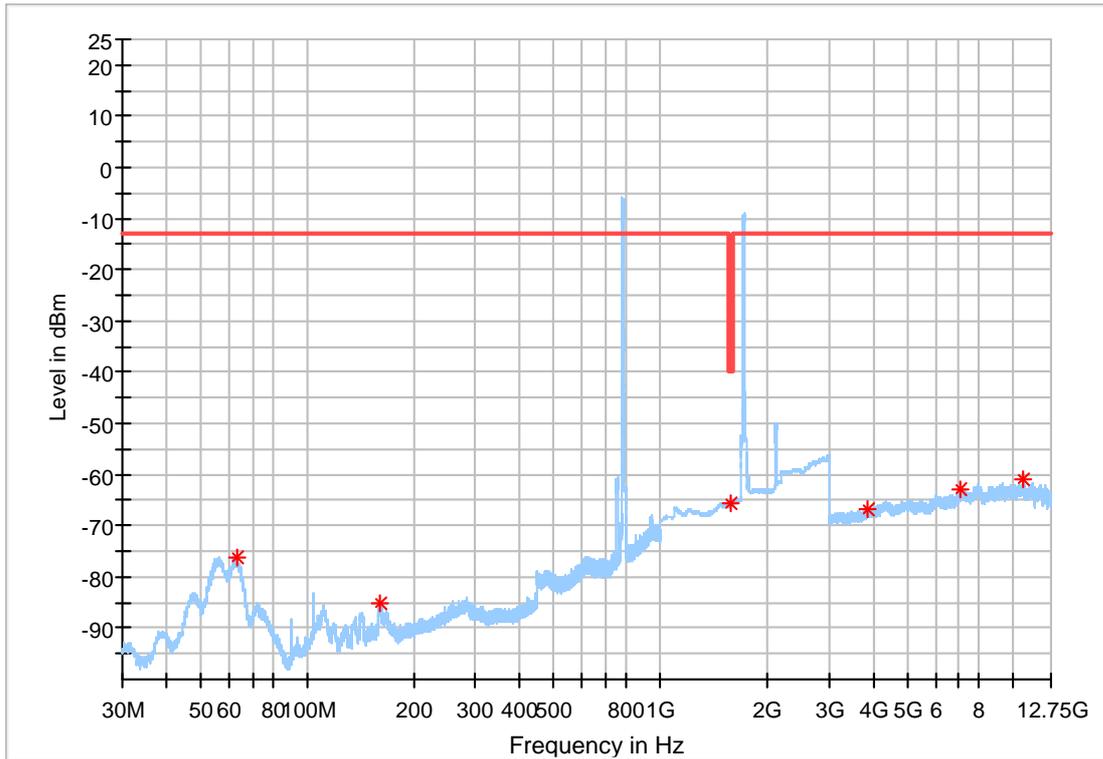
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## 4. Field Strength of Spurious Radiation

### 4.1. Test Mode = LTE/TM1 20&10 MHz\_Ant Down

#### 4.1.1. Test Channel = LCH\_Horizontal

Full Spectrum



### Critical\_Freqs

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
63.400000	-76.11	-13.00	63.11	---	---	200.0	H	114.0	-96.1
160.500000	-85.27	-13.00	72.27	---	---	200.0	H	312.0	-108.4
1583.500000	-65.74	-40.00	25.74	---	---	200.0	H	92.0	-88.0
3866.775000	-66.97	-13.00	53.97	---	---	200.0	H	63.0	-104.1
7061.200000	-62.97	-13.00	49.97	---	---	200.0	H	29.0	-99.0
10621.250000	-61.01	-13.00	48.01	---	---	200.0	H	40.0	-96.5

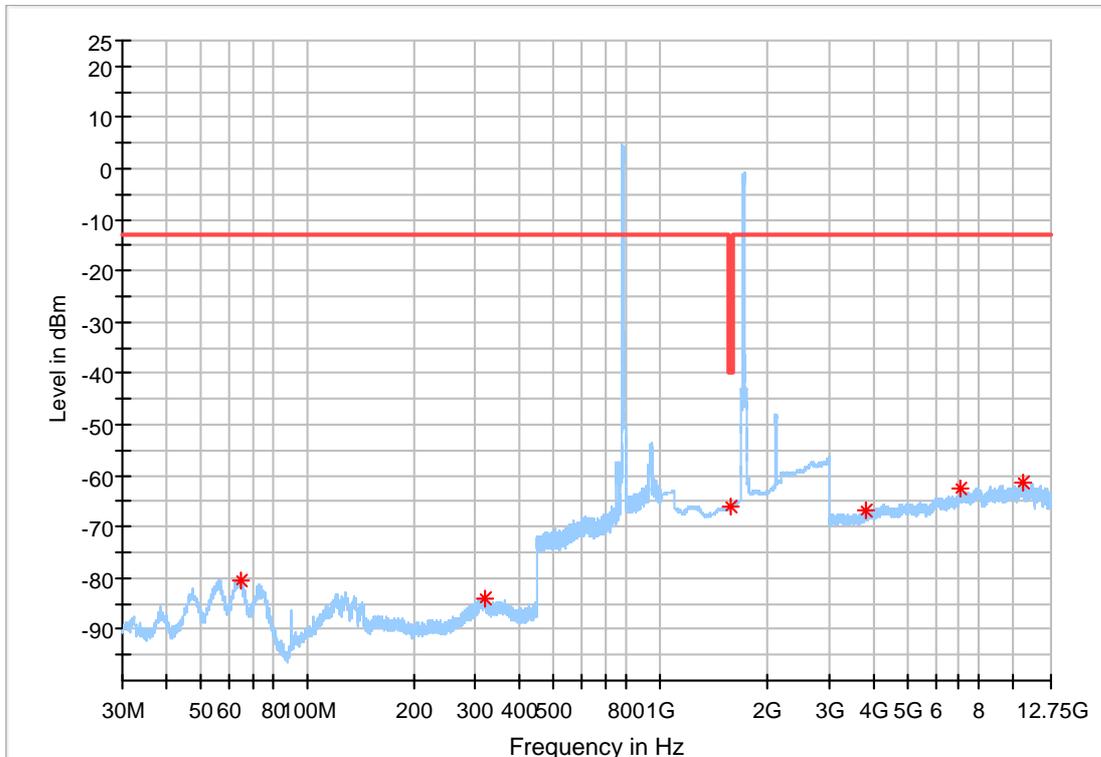


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**4.1.2. Test Channel = LCH\_Vertical**

Full Spectrum



**Critical\_Freqs**

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
65.300000	-80.52	-13.00	67.52	---	---	200.0	V	0.0	-99.7
316.750000	-84.17	-13.00	71.17	---	---	200.0	V	10.0	-102.0
1584.000000	-66.13	-40.00	26.13	---	---	200.0	V	145.0	-88.2
3832.650000	-66.88	-13.00	53.88	---	---	200.0	V	327.0	-104.1
7072.575000	-62.69	-13.00	49.69	---	---	200.0	V	83.0	-98.9
10650.825000	-61.19	-13.00	48.19	---	---	200.0	V	0.0	-96.4

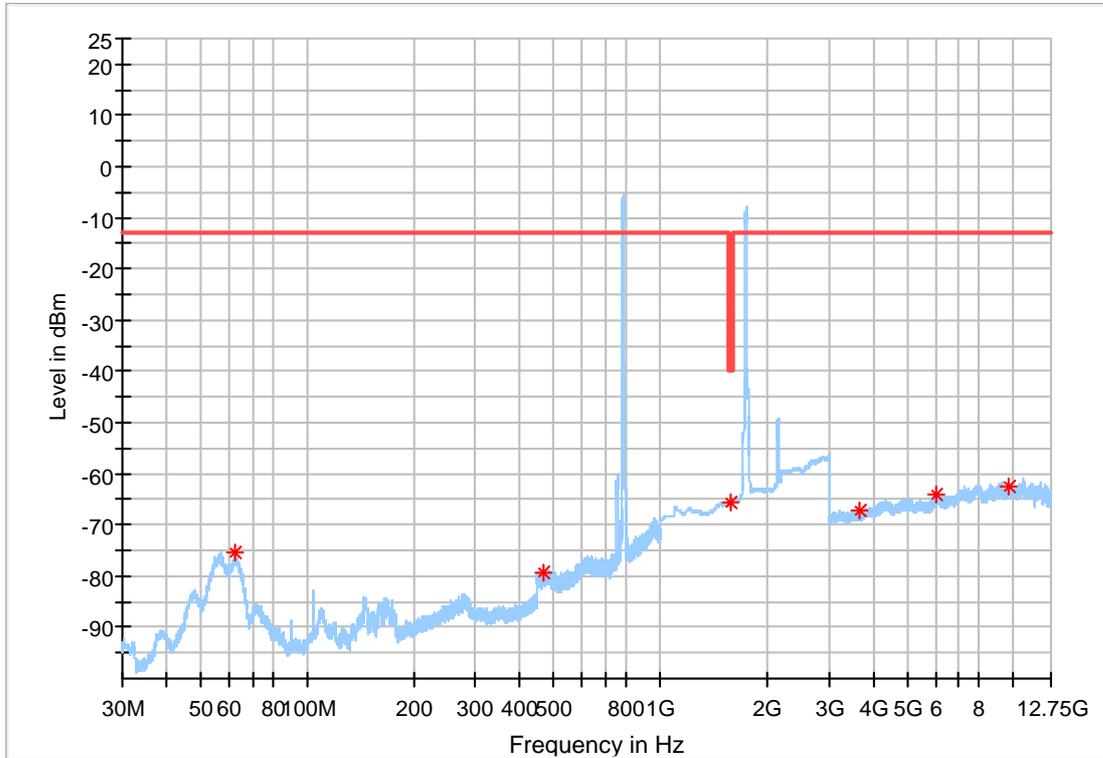


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**4.1.3. Test Channel = MCH\_Horizontal**

Full Spectrum



**Critical\_Freqs**

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
62.850000	-75.44	-13.00	62.44	---	---	200.0	H	22.0	-95.5
463.887500	-79.33	-13.00	66.33	---	---	200.0	H	15.0	-101.3
1586.000000	-65.64	-40.00	25.64	---	---	200.0	H	325.0	-87.9
3643.500000	-67.38	-13.00	54.38	---	---	200.0	H	0.0	-104.7
6051.100000	-64.23	-13.00	51.23	---	---	200.0	H	95.0	-100.1
9721.000000	-62.35	-13.00	49.35	---	---	200.0	H	28.0	-97.4

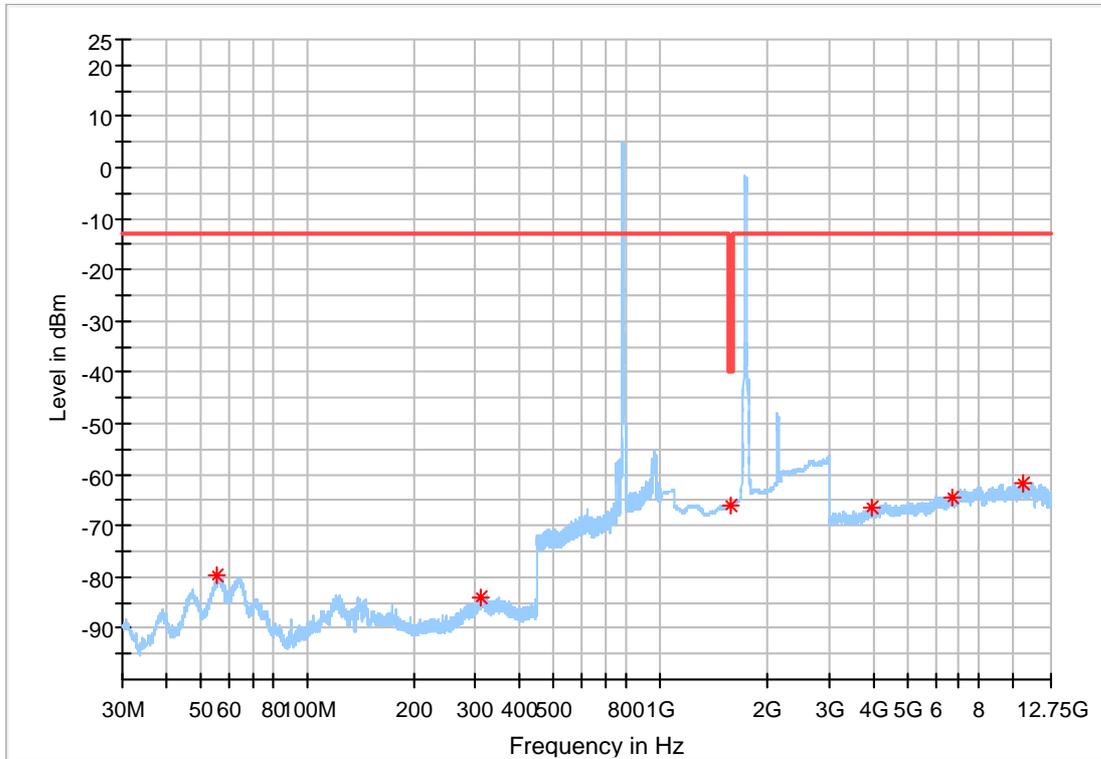


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**4.1.4. Test Channel = MCH\_ Vertical**

Full Spectrum



**Critical\_Freqs**

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
55.850000	-79.56	-13.00	66.56	---	---	200.0	V	177.0	-101.6
310.250000	-84.15	-13.00	71.15	---	---	200.0	V	177.0	-102.1
1585.500000	-65.95	-40.00	25.95	---	---	200.0	V	291.0	-88.2
3941.850000	-66.38	-13.00	53.38	---	---	200.0	V	167.0	-103.8
6708.250000	-64.31	-13.00	51.31	---	---	200.0	V	144.0	-99.4
10645.625000	-61.59	-13.00	48.59	---	---	200.0	V	109.0	-96.4

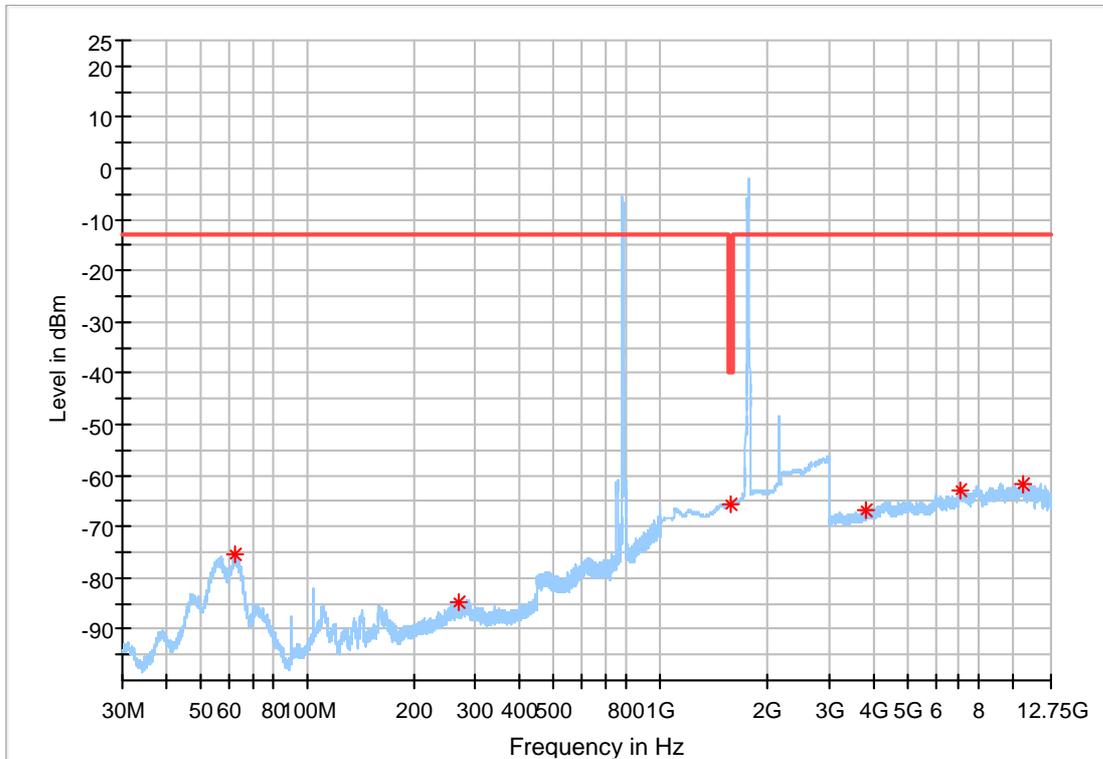


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**4.1.5. Test Channel = HCH\_Horizontal**

Full Spectrum



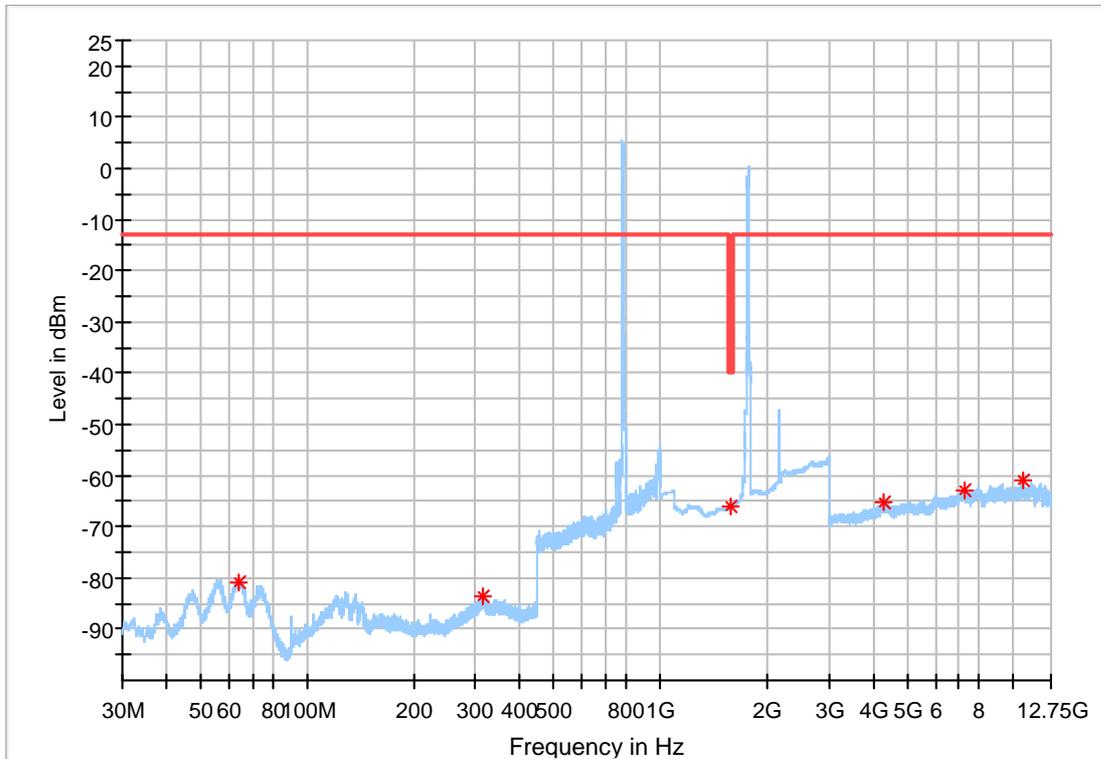
**Critical\_Freqs**

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
62.400000	-75.47	-13.00	62.47	---	---	200.0	H	79.0	-95.0
269.950000	-84.62	-13.00	71.62	---	---	200.0	H	180.0	-102.3
1590.000000	-65.67	-40.00	25.67	---	---	200.0	H	0.0	-88.0
3822.250000	-66.67	-13.00	53.67	---	---	200.0	H	118.0	-104.2
7055.675000	-62.95	-13.00	49.95	---	---	200.0	H	317.0	-99.0
10631.000000	-61.63	-13.00	48.63	---	---	200.0	H	62.0	-96.5



**4.1.6. Test Channel = HCH\_ Vertical**

Full Spectrum



**Critical\_Freqs**

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
64.000000	-80.68	-13.00	67.68	---	---	200.0	V	142.0	-100.0
313.800000	-83.73	-13.00	70.73	---	---	200.0	V	313.0	-102.0
1581.000000	-66.08	-40.00	26.08	---	---	200.0	V	136.0	-88.3
4306.500000	-65.41	-13.00	52.41	---	---	200.0	V	106.0	-102.8
7244.500000	-62.86	-13.00	49.86	---	---	200.0	V	130.0	-99.4
10635.550000	-60.89	-13.00	47.89	---	---	200.0	V	73.0	-96.4

Remark:

- 1 According to 971168 D01 Power Meas License Digital Systems, The amplitudes of unwanted emissions that are attenuated more than 20 dB below the applicable limit are not required to be reported.
- 2 The disturbance below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the worst case data displayed in this report.
- 3 All modulation and all Bandwidth had been tested, but only the worst case data displayed in this report.

The End



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