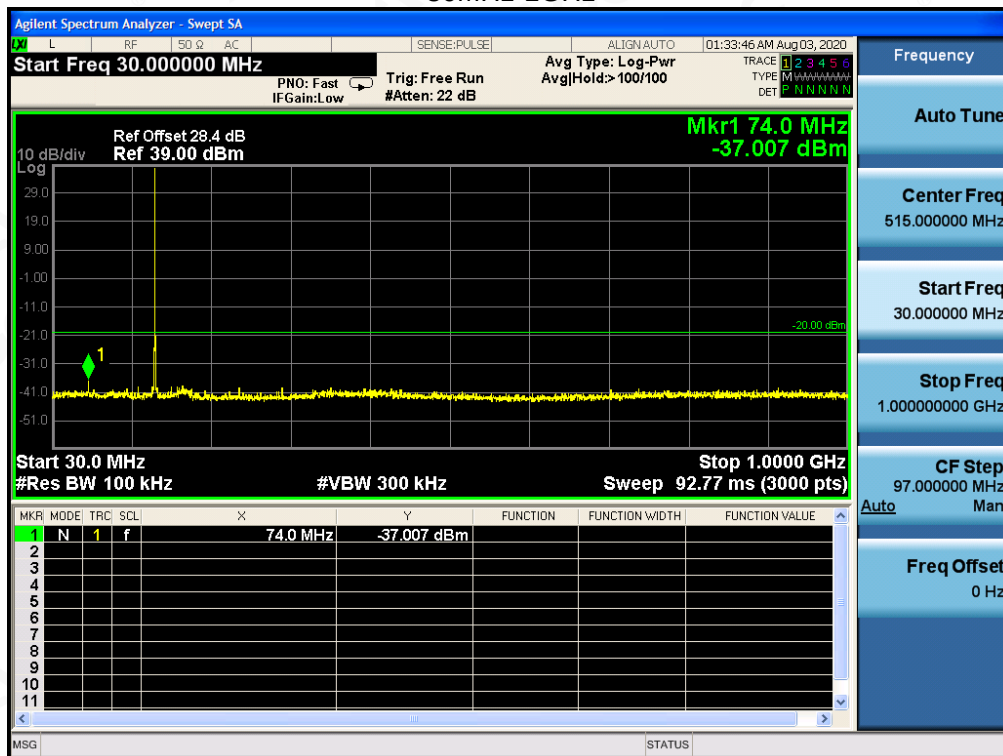
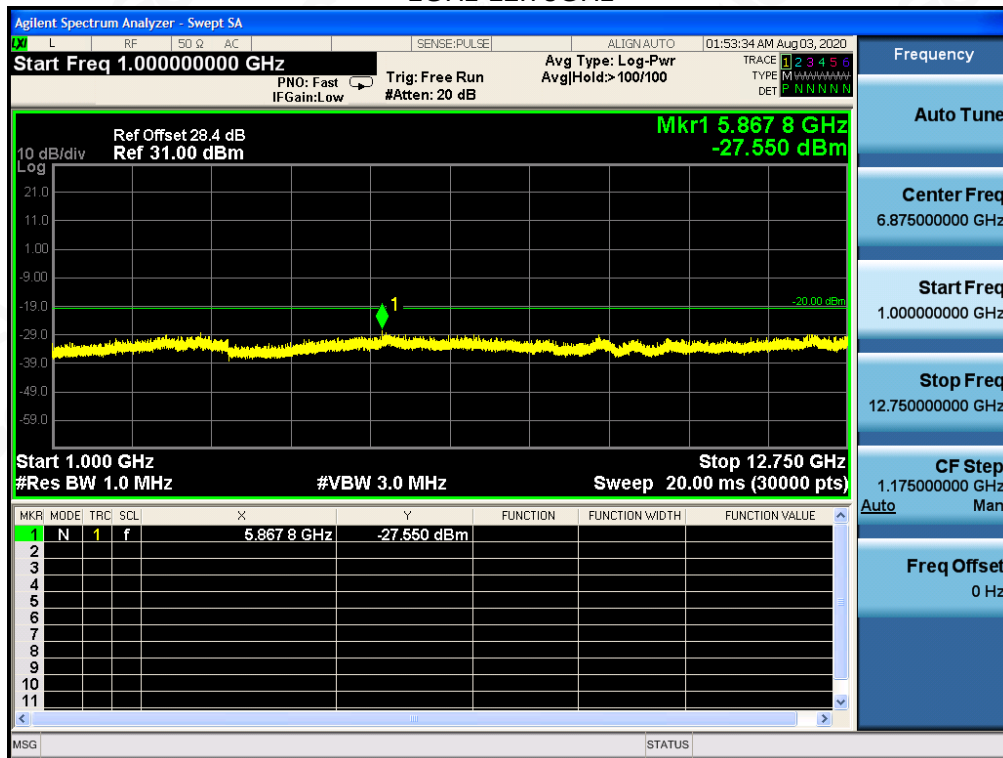


Conducted Spurious Emission (worst) @155.025 MHz With 12.5 KHz Channel Separation-5W
30MHz-1GHz



Conducted Spurious Emission (worst) @ 155.025 MHz With 12.5 KHz Channel Separation-5W
1GHz-12.75GHz

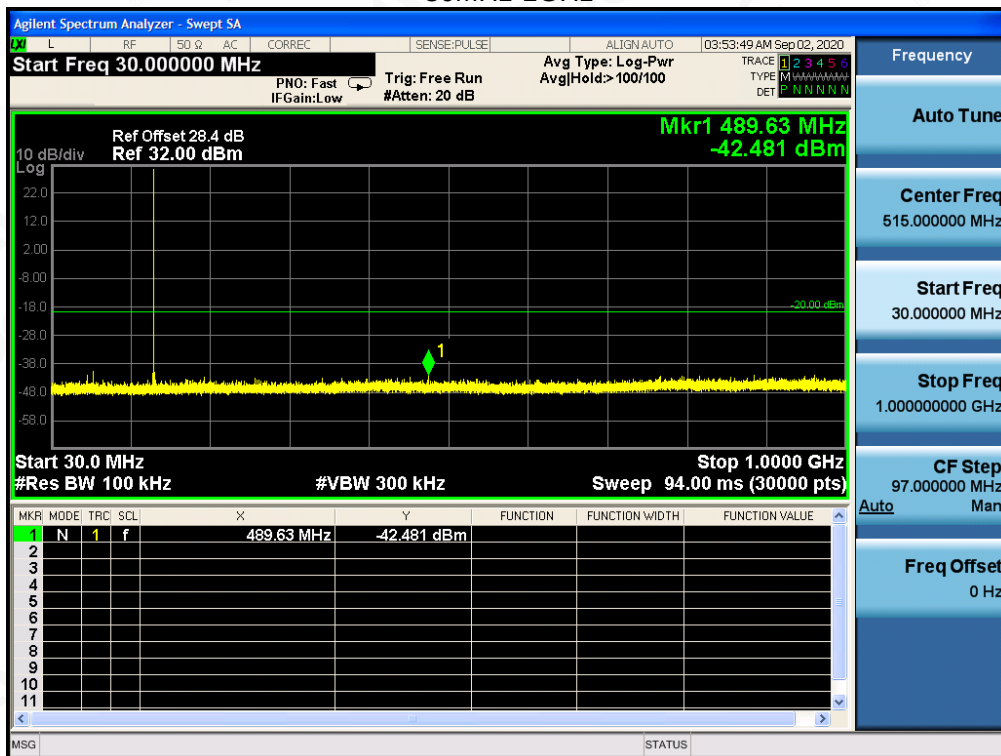


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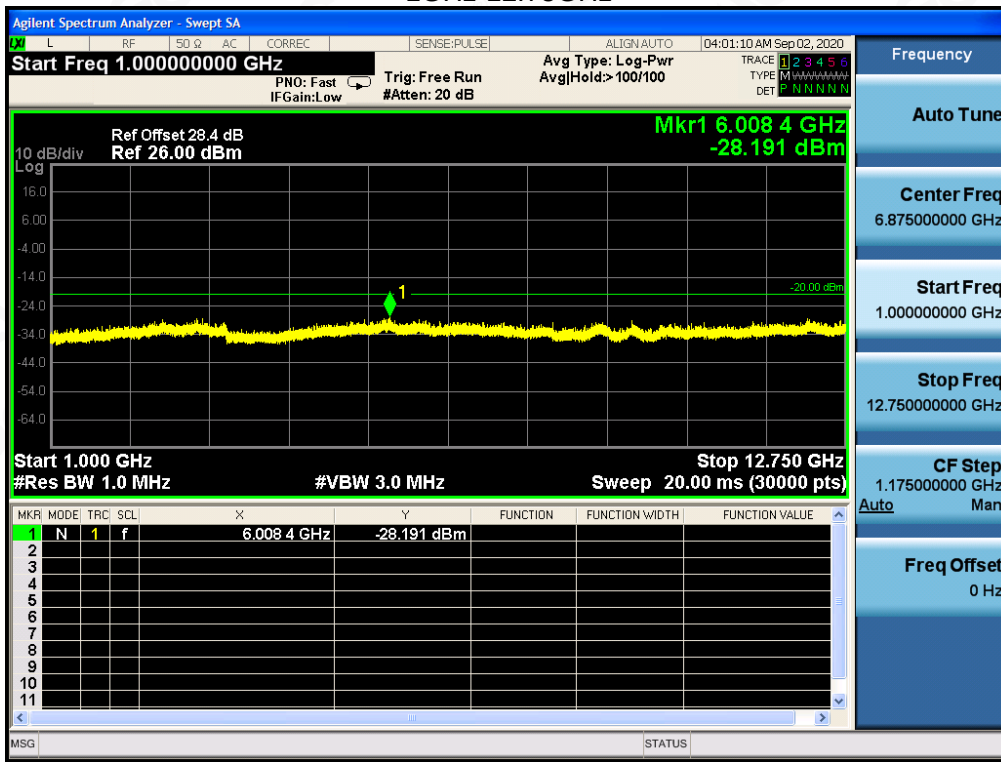
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Conducted Spurious Emission (worst) @155.025 MHz With 12.5 KHz Channel Separation-1W
30MHz-1GHz



Conducted Spurious Emission (worst) @155.025MHz With 12.5 KHz Channel Separation-1W
1GHz-12.75GHz

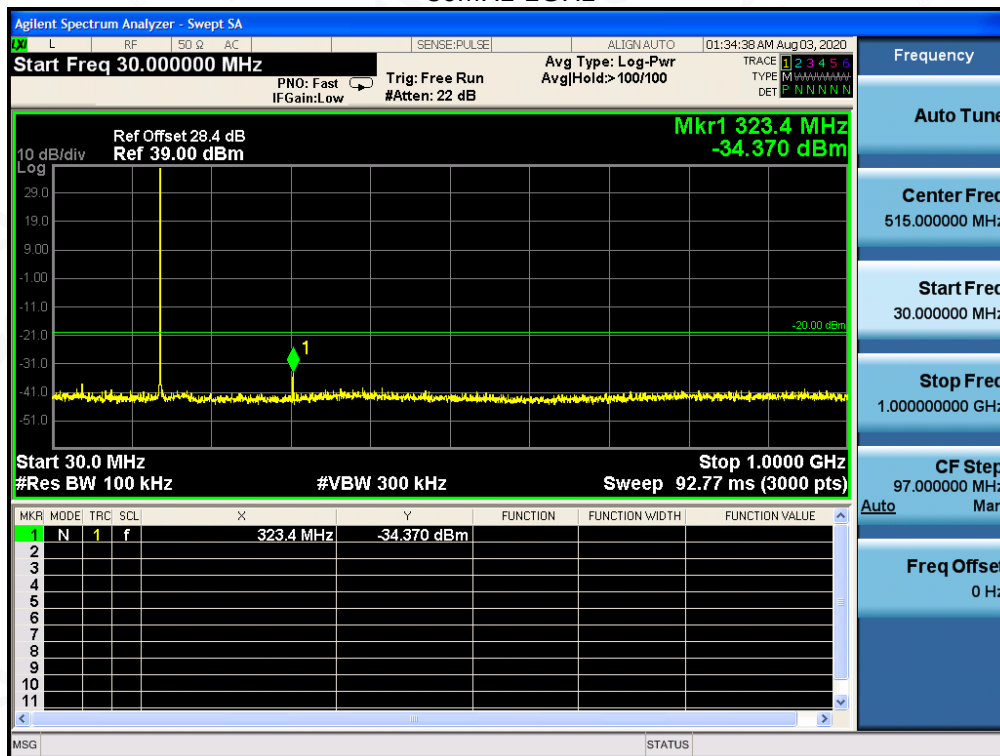


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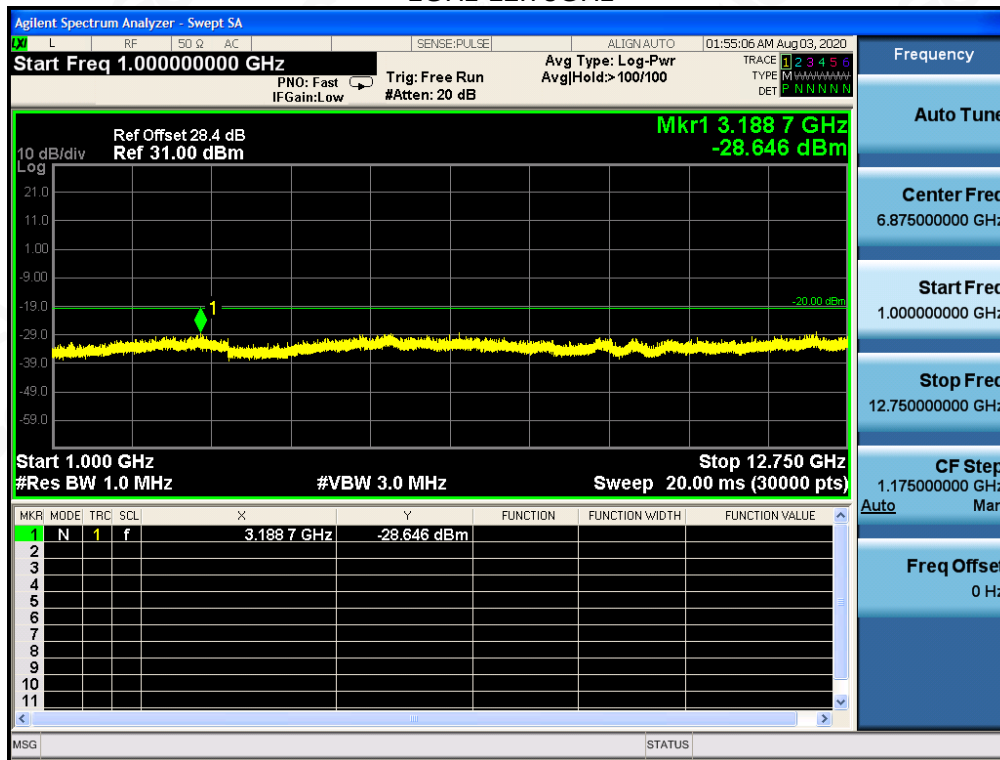
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Conducted Spurious Emission (worst) @161.610 MHz With 12.5 KHz Channel Separation-5W
30MHz-1GHz



Conducted Spurious Emission (worst) @ 161.610MHz With 12.5 KHz Channel Separation-5W
1GHz-12.75GHz

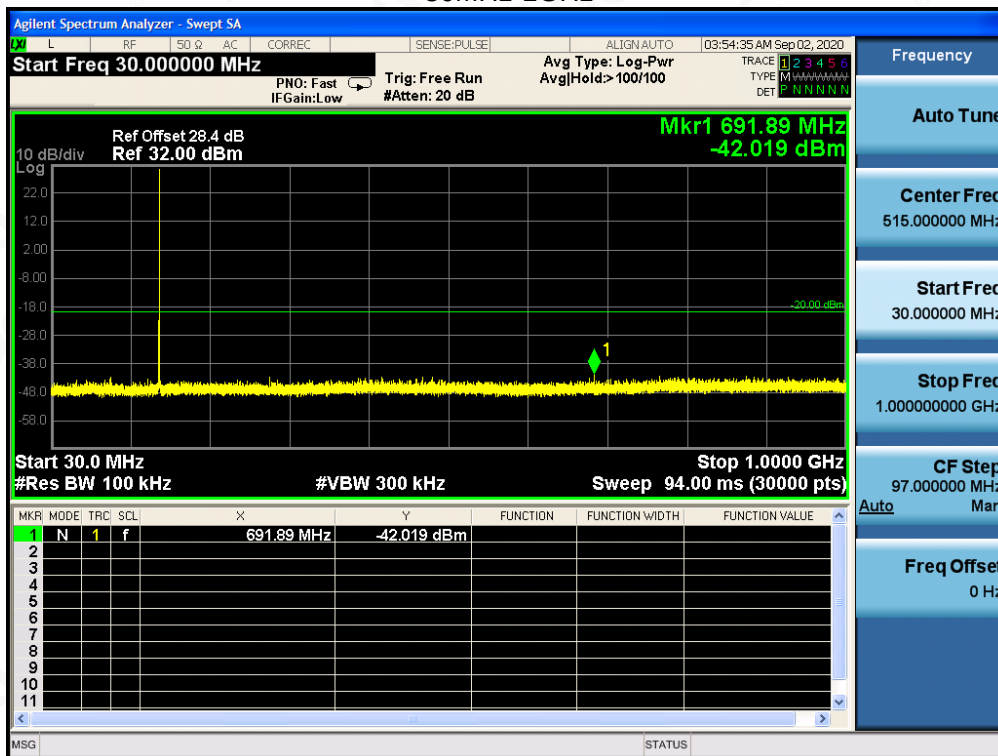


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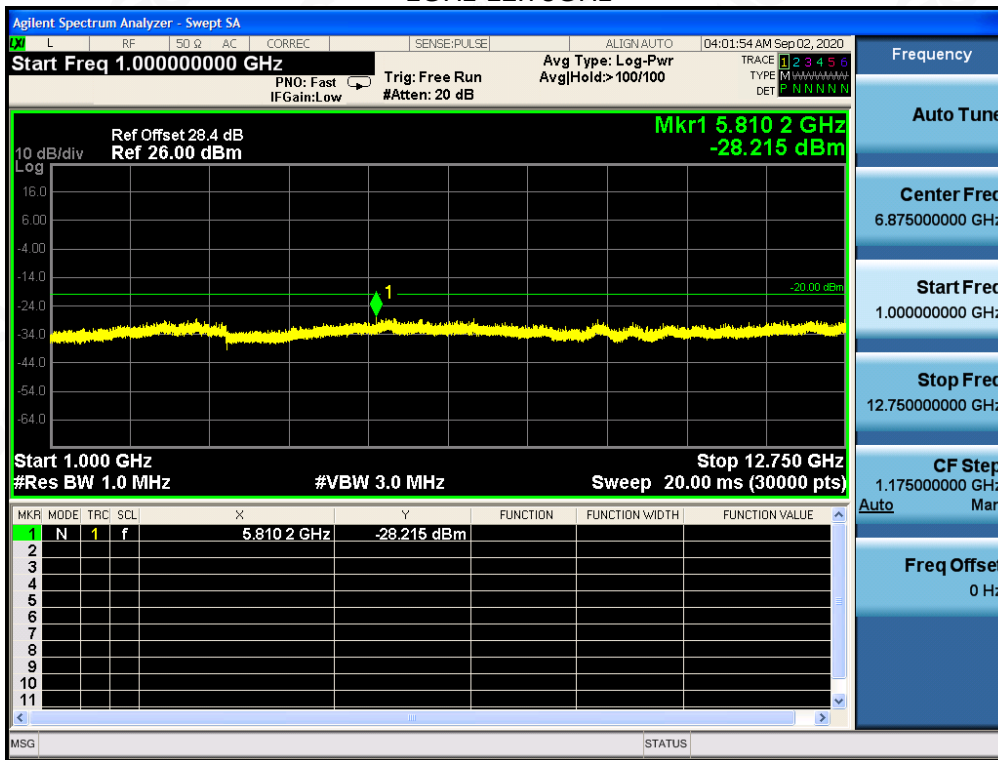
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Conducted Spurious Emission (worst) @161.610 MHz With 12.5 KHz Channel Separation-1W
30MHz-1GHz



Conducted Spurious Emission (worst) @ 161.610MHz With 12.5 KHz Channel Separation-1W
1GHz-12.75GHz

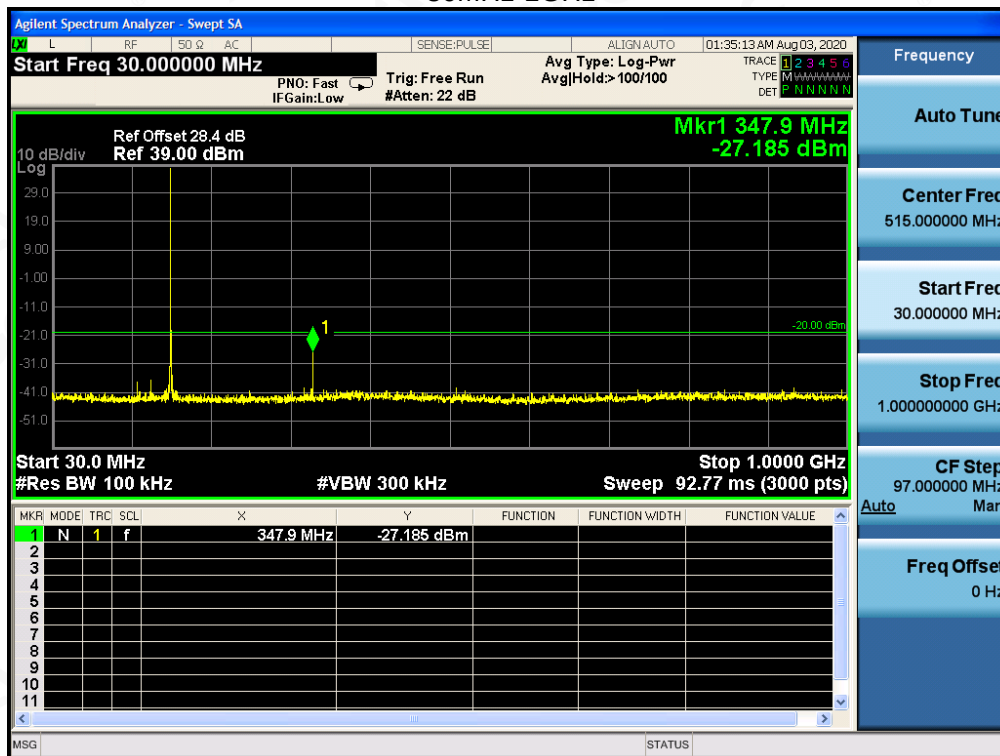


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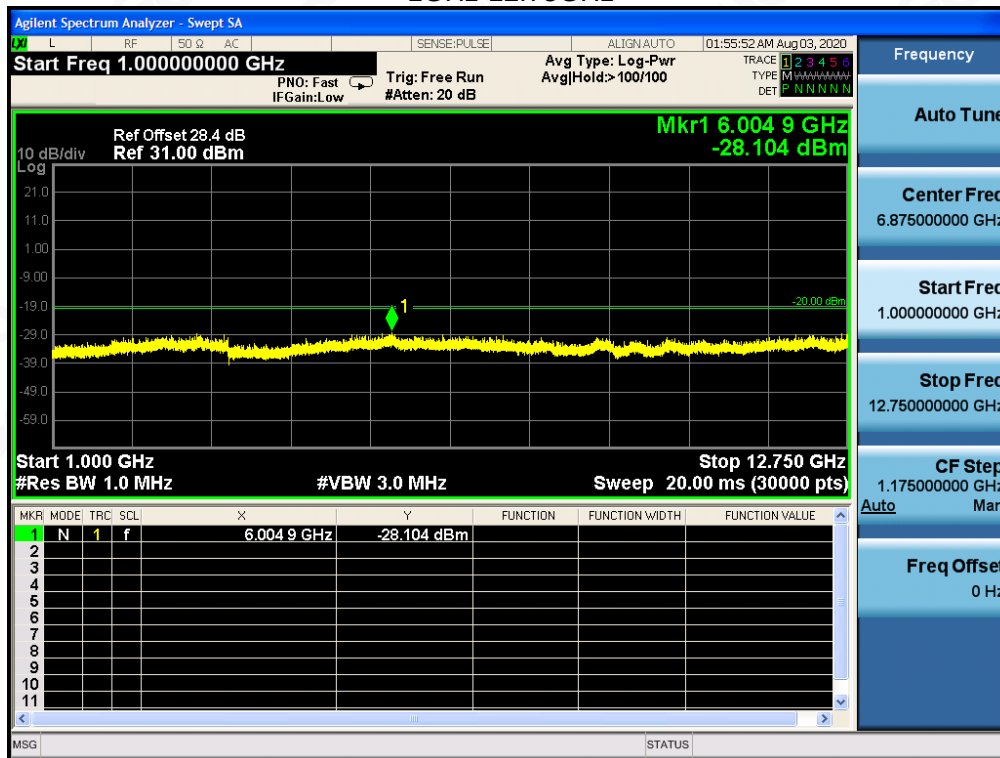
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Conducted Spurious Emission (worst) @173.975 MHz With 12.5 KHz Channel Separation-5W
30MHz-1GHz



Conducted Spurious Emission (worst) @ 173.975MHz With 12.5 KHz Channel Separation-5W
1GHz-12.75GHz

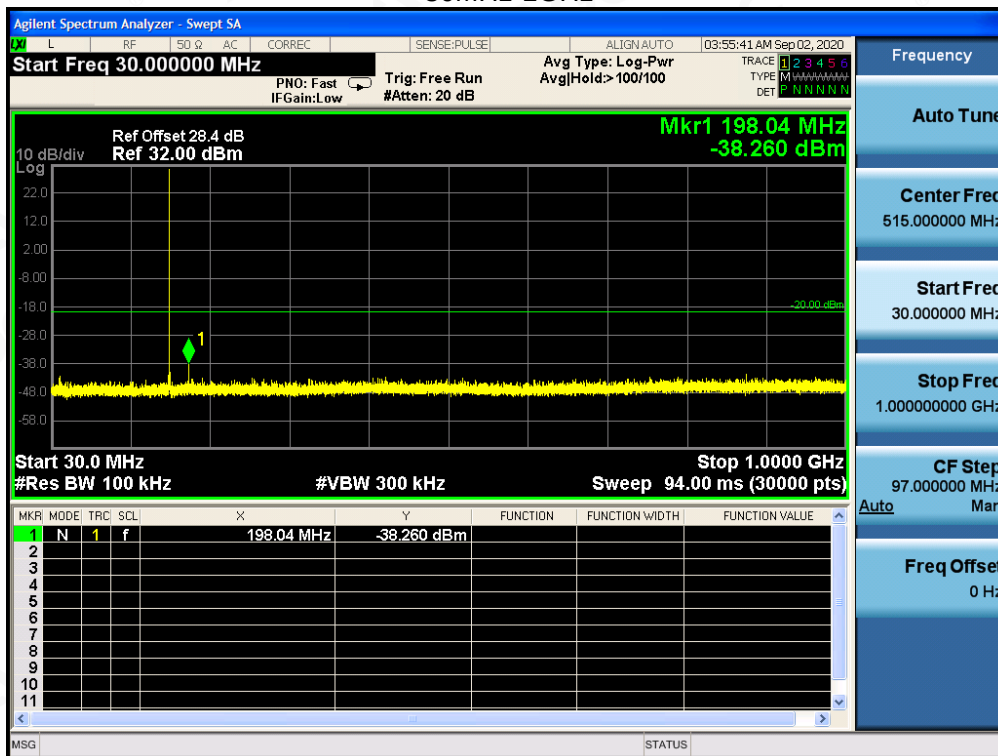


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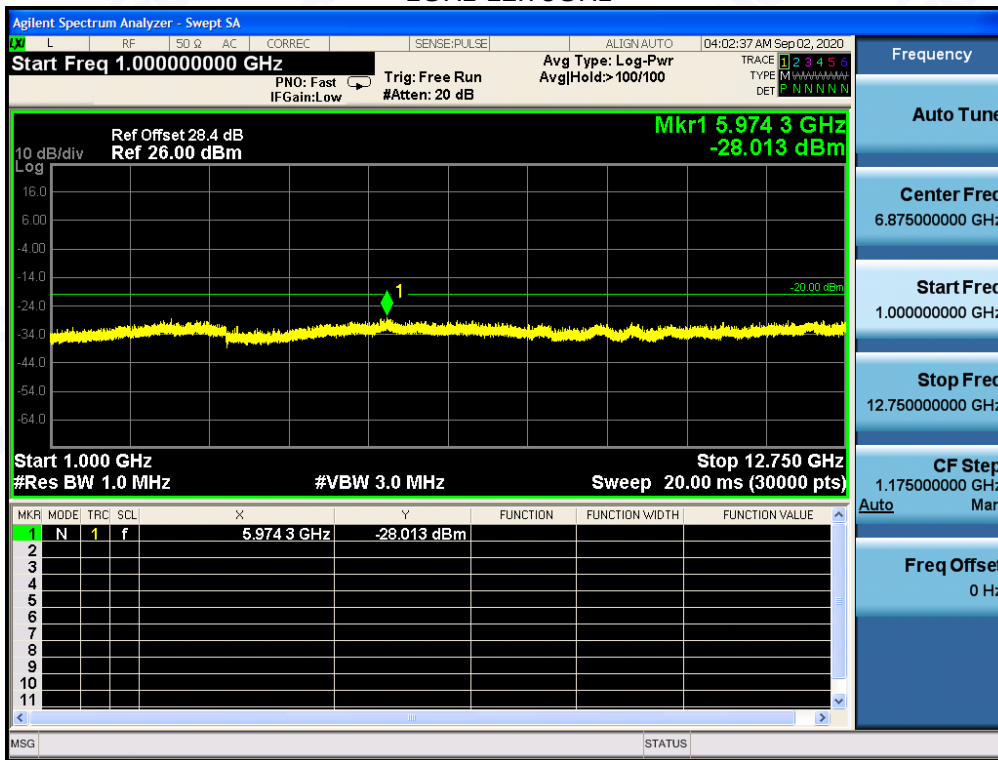
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Conducted Spurious Emission (worst) @173.975 MHz With 12.5 KHz Channel Separation-1W
30MHz-1GHz



Conducted Spurious Emission (worst) @ 173.975MHz With 12.5 KHz Channel Separation-1W
1GHz-12.75GHz



Note: only result the worst case in this part.

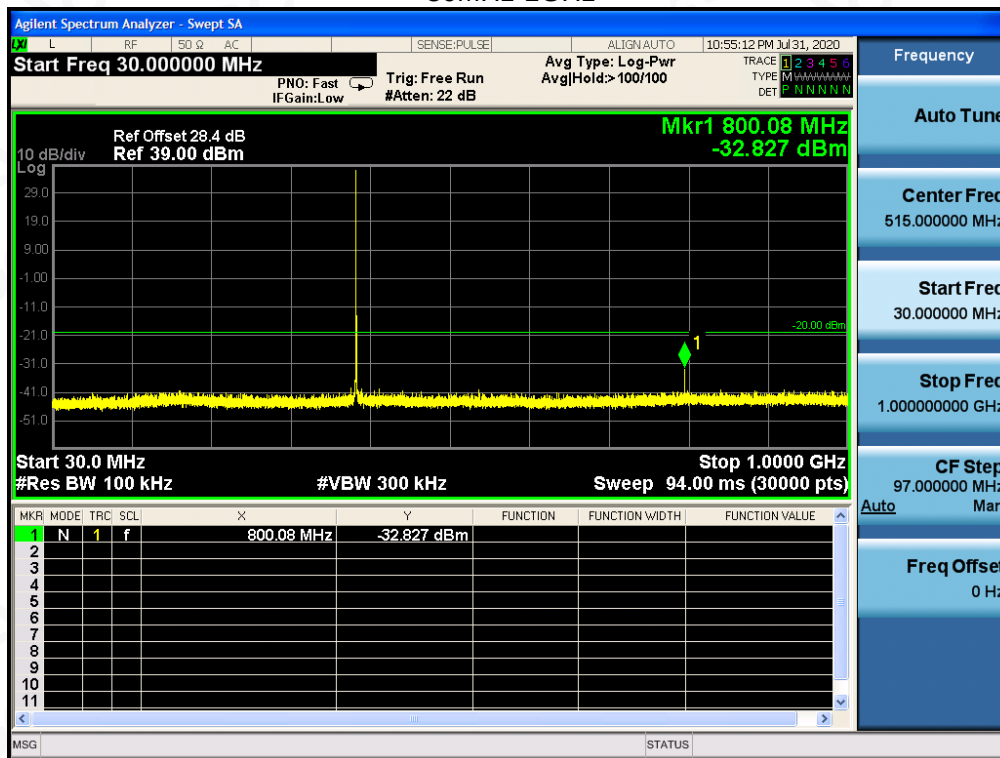
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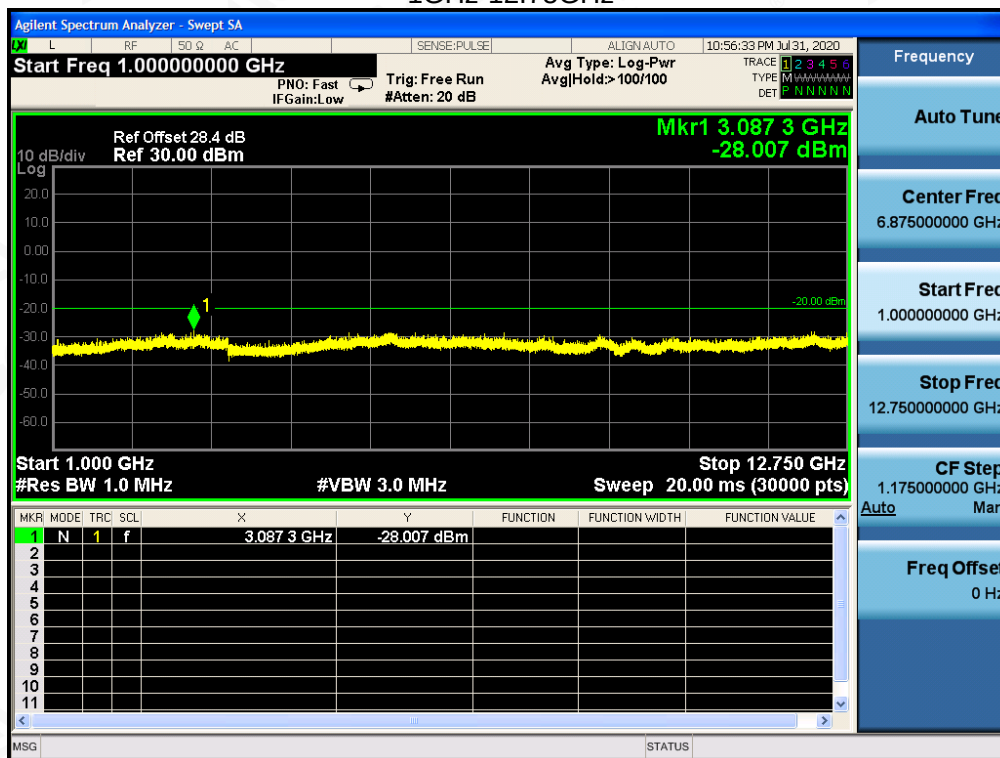


UHF:
Analog:

Conducted Spurious Emission (worst) @ 400.025MHz With 12.5 KHz Channel Separation-5W
30MHz-1GHz



Conducted Spurious Emission (worst) @ 400.025MHz With 12.5 KHz Channel Separation-5W
1GHz-12.75GHz

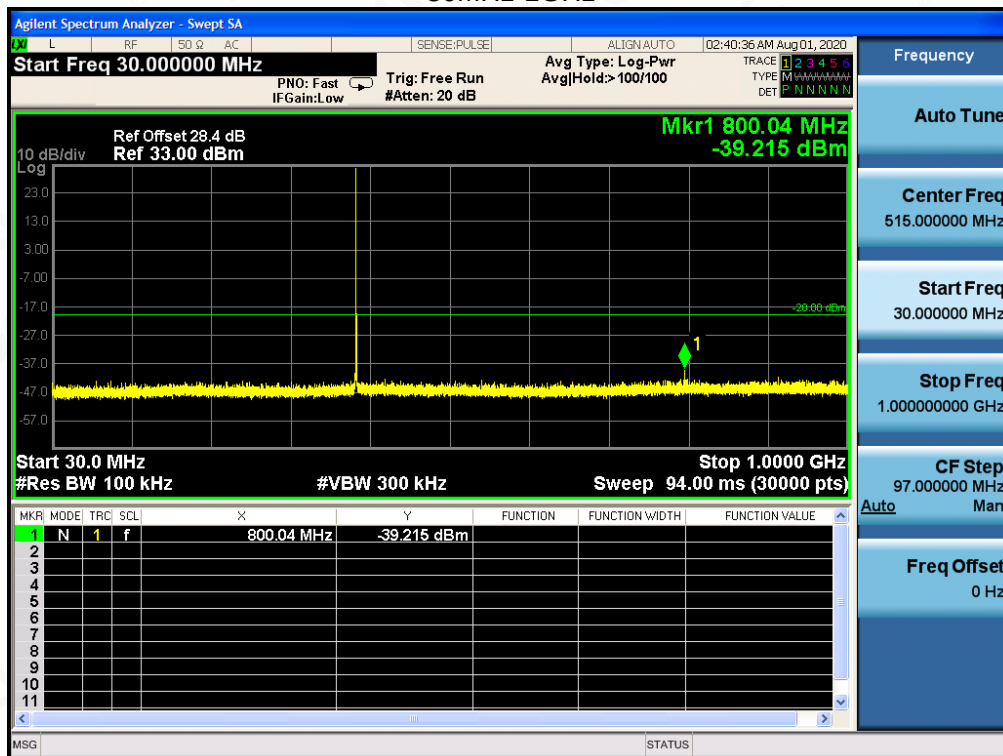


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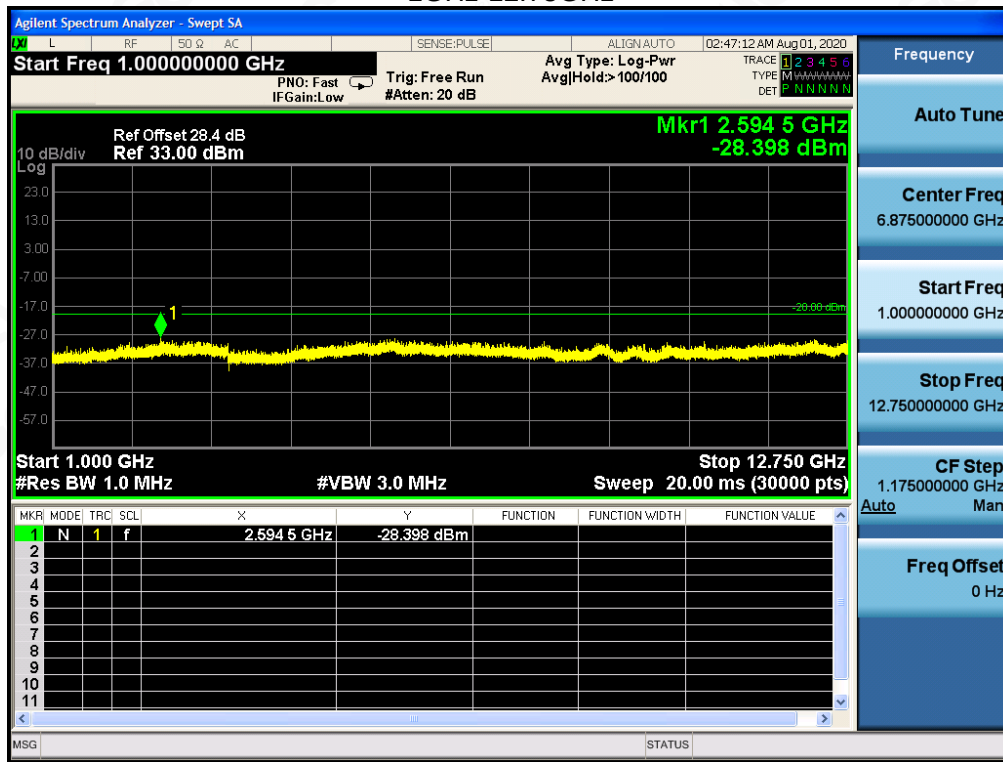
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Conducted Spurious Emission (worst) @ 400.025MHz With 12.5 KHz Channel Separation-1W
30MHz-1GHz



Conducted Spurious Emission (worst) @ 400.025MHz With 12.5 KHz Channel Separation-1W
1GHz-12.75GHz

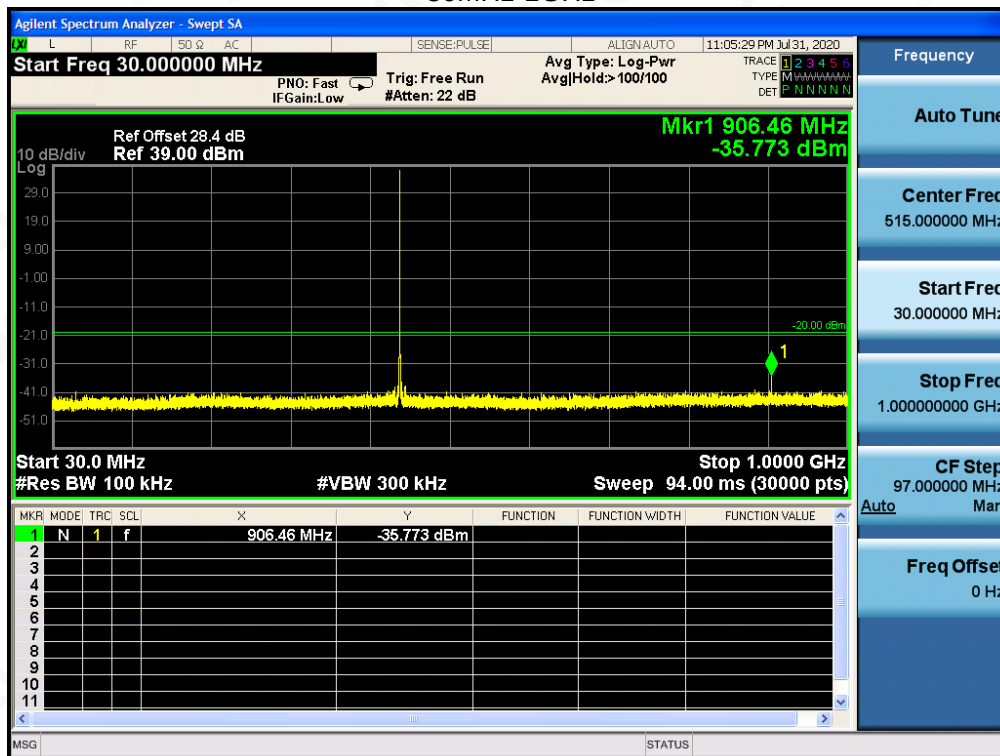


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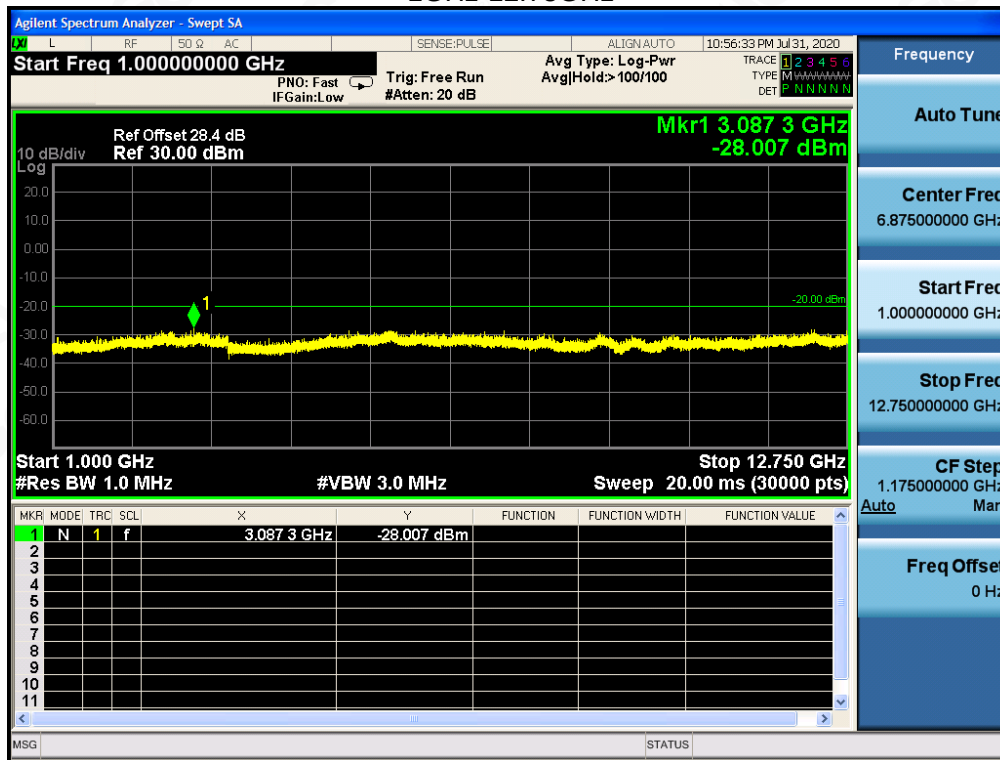
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Conducted Spurious Emission (worst) @ 453.225MHz With 12.5 KHz Channel Separation-5W
30MHz-1GHz



Conducted Spurious Emission (worst) @ 453.225MHz With 12.5 KHz Channel Separation-5W
1GHz-12.75GHz

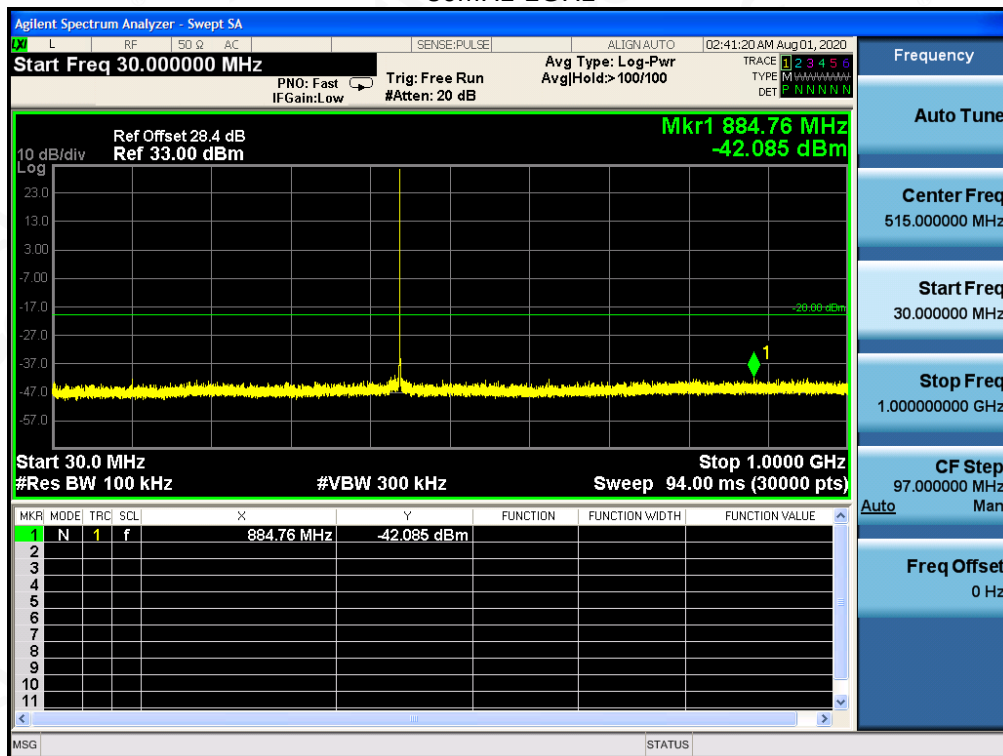


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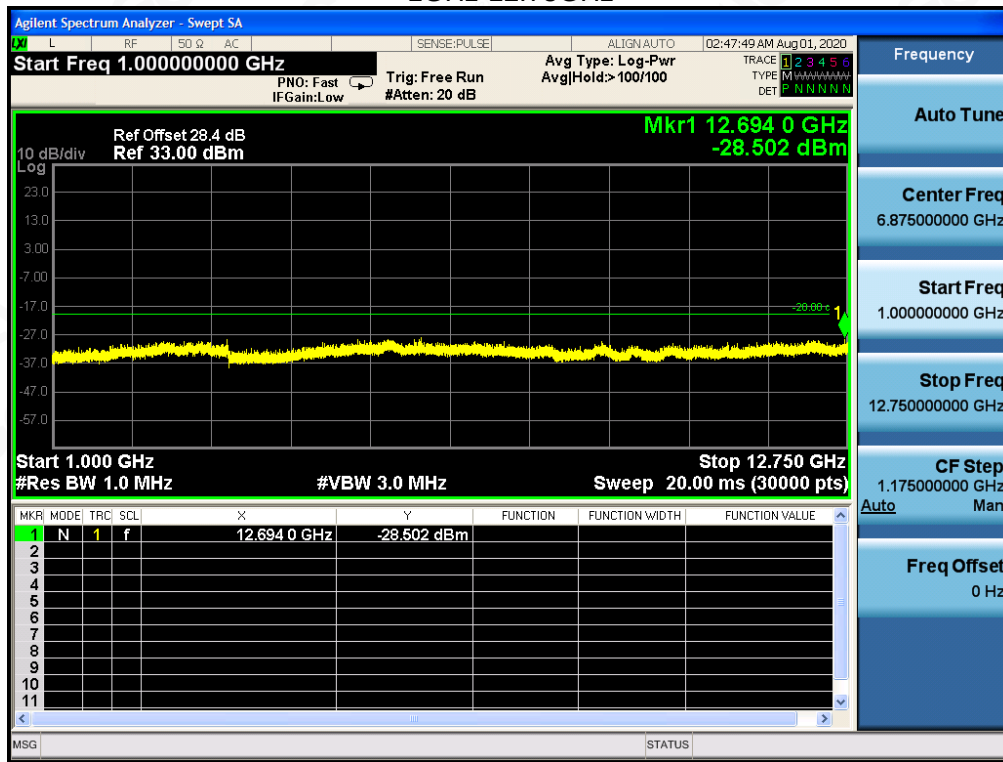
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Conducted Spurious Emission (worst) @ 453.225MHz With 12.5 KHz Channel Separation-1W
30MHz-1GHz



Conducted Spurious Emission (worst) @ 453.225MHz With 12.5 KHz Channel Separation-1W
1GHz-12.75GHz

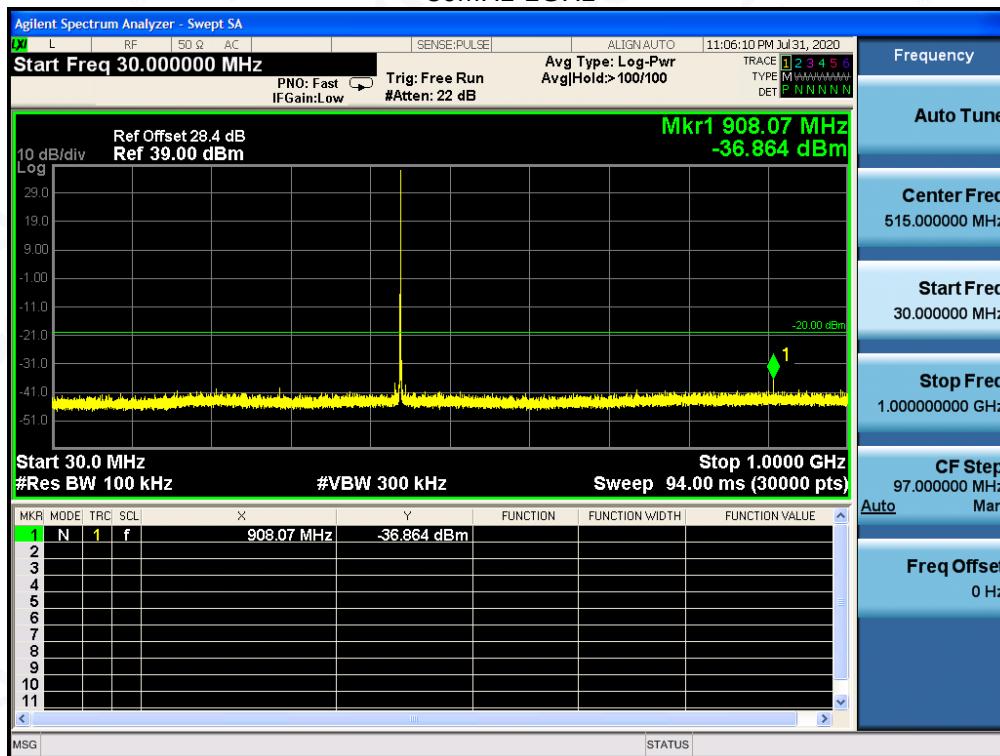


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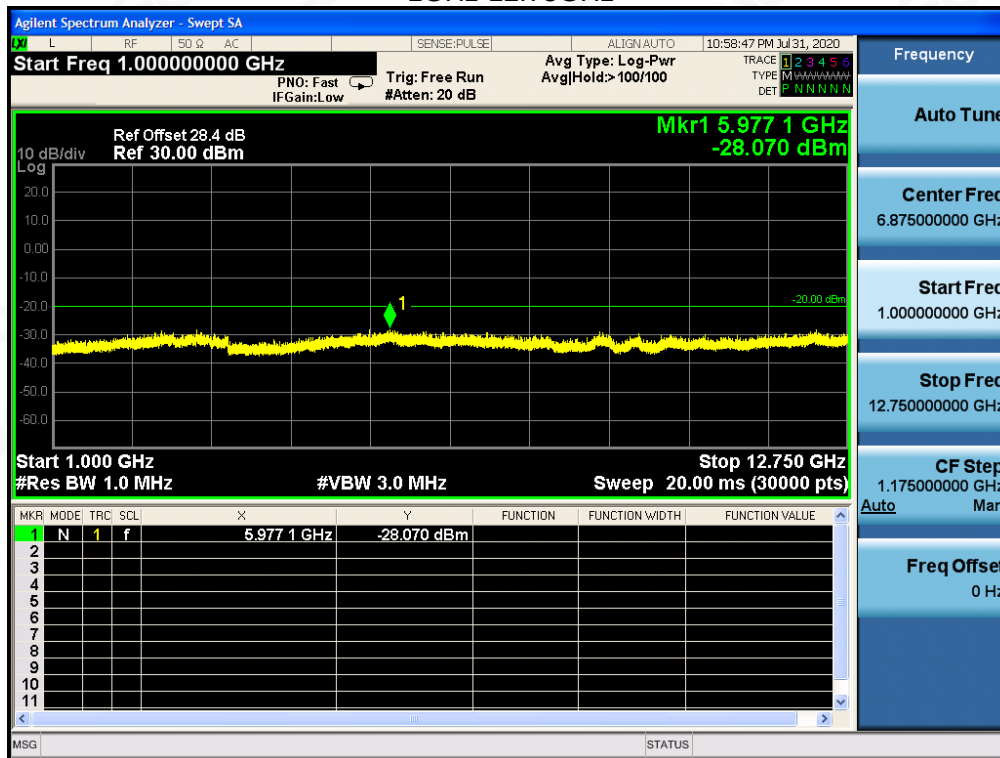
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Conducted Spurious Emission (worst) @ 454.025MHz With 12.5 KHz Channel Separation-5W
30MHz-1GHz



Conducted Spurious Emission (worst) @ 454.025MHz With 12.5 KHz Channel Separation-5W
1GHz-12.75GHz

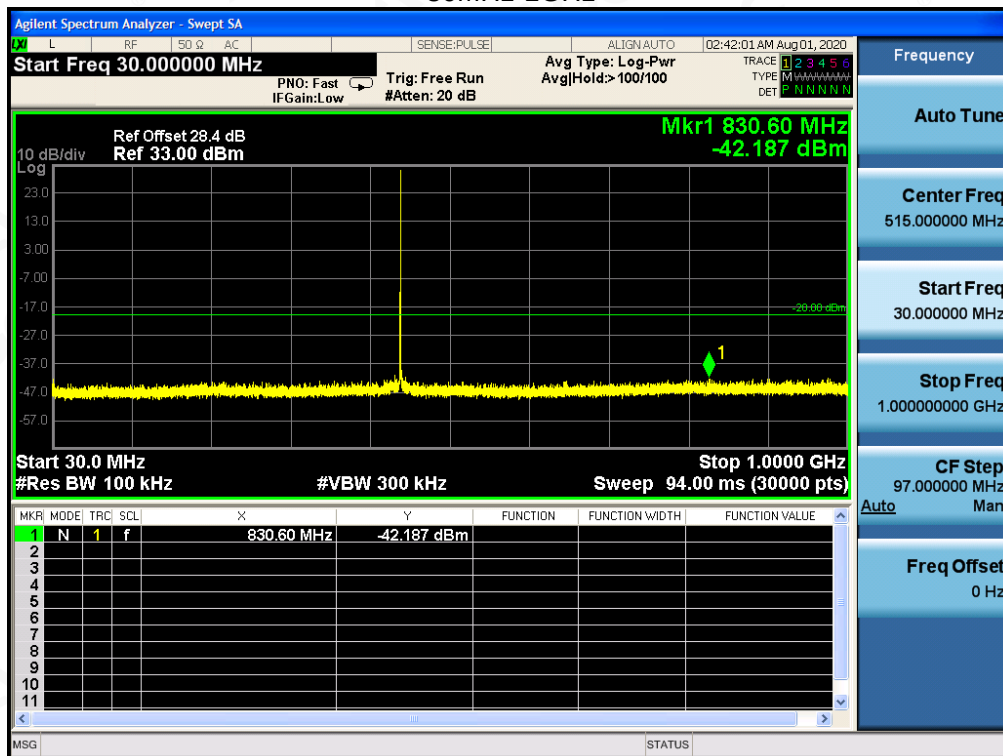


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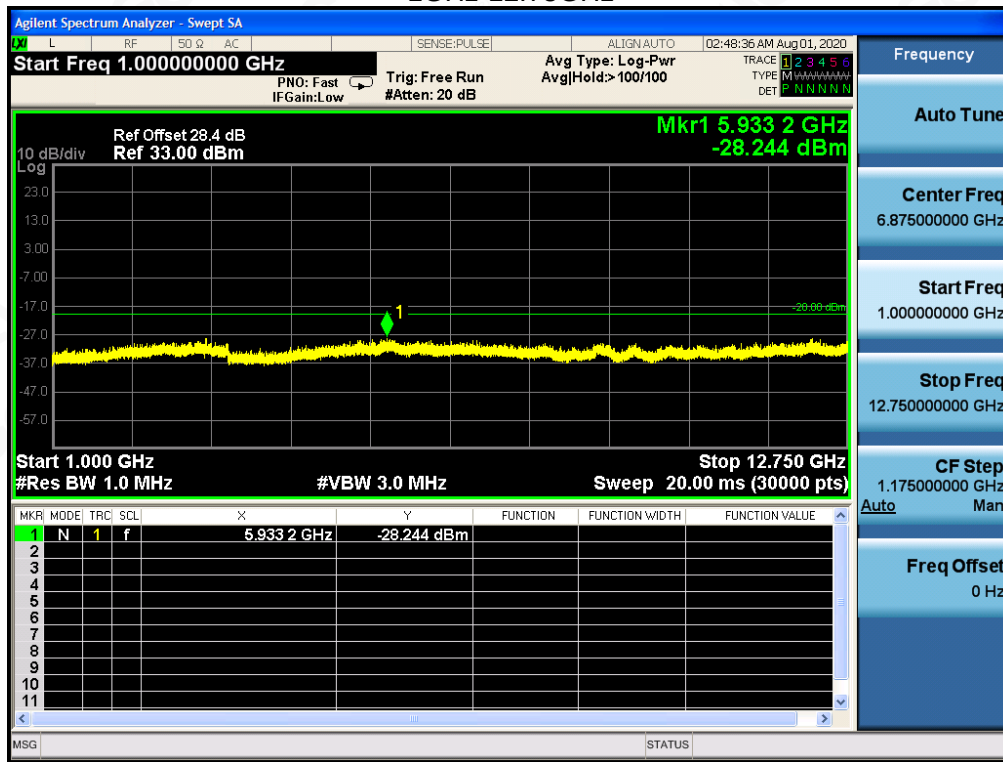
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Conducted Spurious Emission (worst) @ 454.025MHz With 12.5 KHz Channel Separation-1W
30MHz-1GHz



Conducted Spurious Emission (worst) @ 454.025MHz With 12.5 KHz Channel Separation-1W
1GHz-12.75GHz

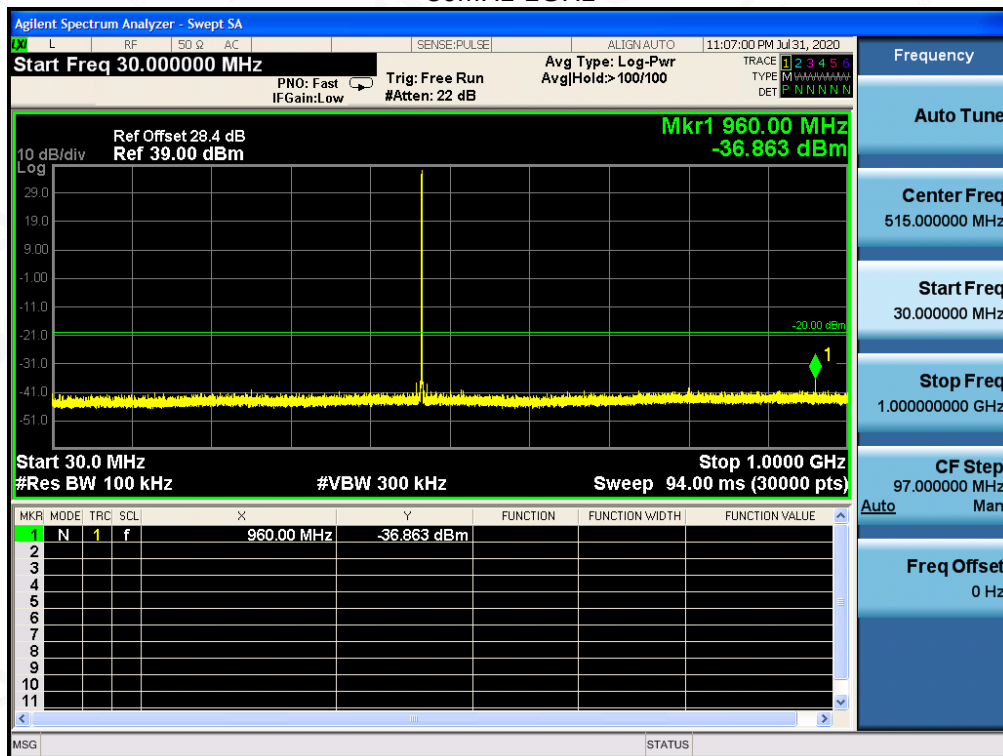


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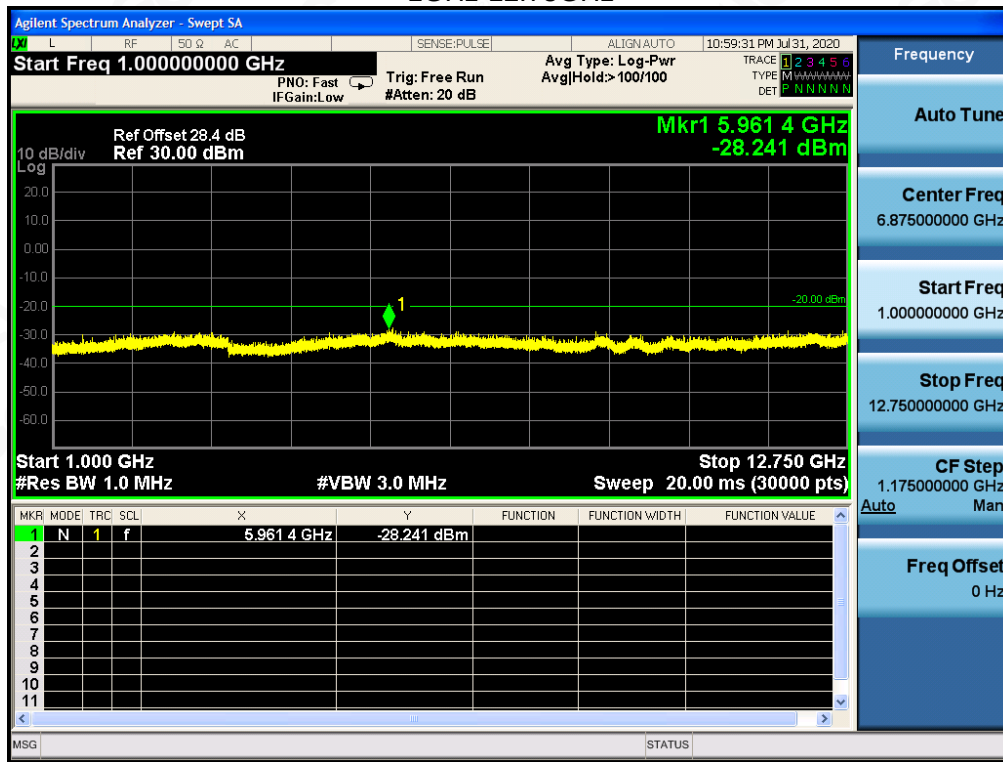
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Conducted Spurious Emission (worst) @ 479.975MHz With 12.5 KHz Channel Separation-5W
30MHz-1GHz



Conducted Spurious Emission (worst) @ 479.975MHz With 12.5 KHz Channel Separation-5W
1GHz-12.75GHz

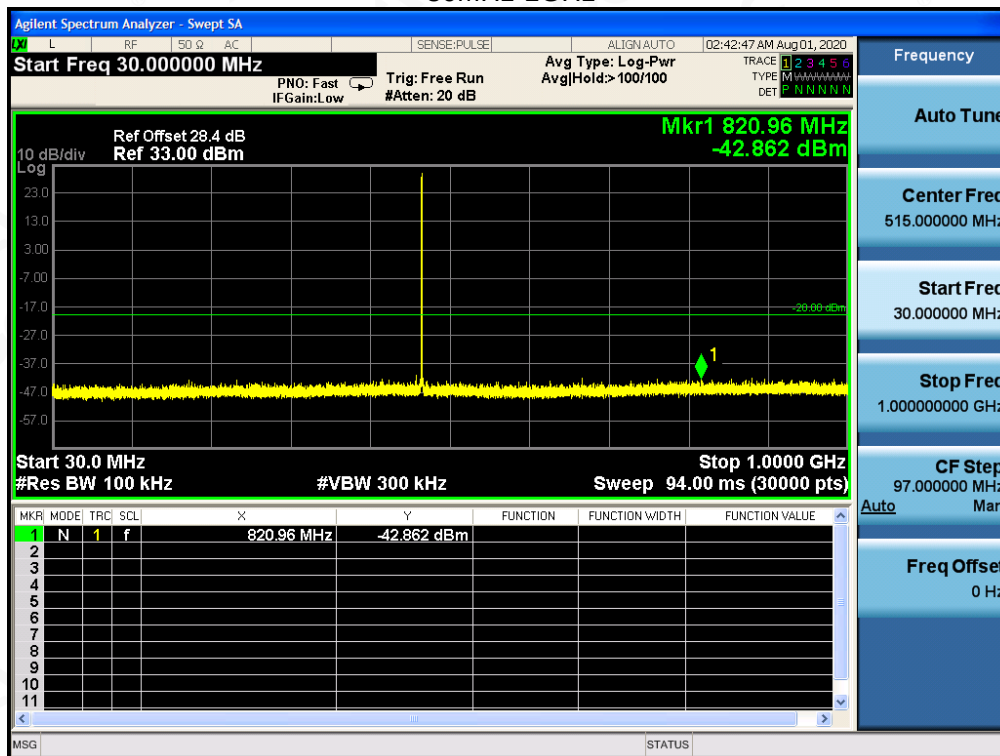


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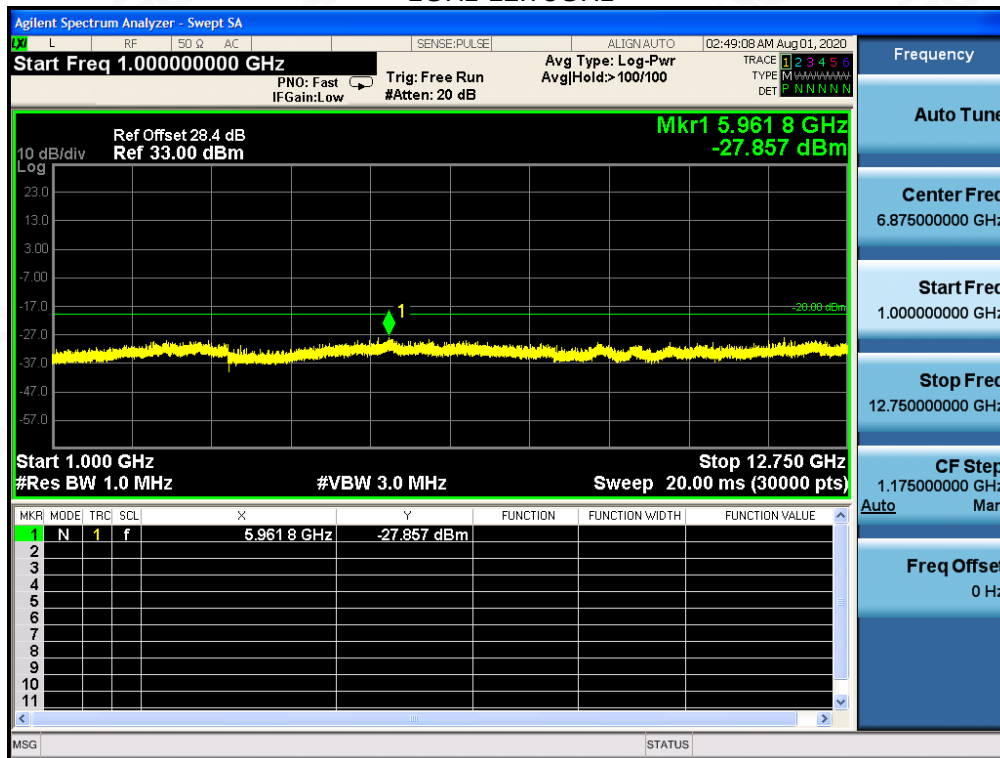
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Conducted Spurious Emission (worst) @ 479.975MHz With 12.5 KHz Channel Separation-1W
30MHz-1GHz



Conducted Spurious Emission (worst) @ 479.975MHz With 12.5 KHz Channel Separation-1W
1GHz-12.75GHz



Note: All the test frequencies was tested, but only the worst data be recorded in this part.

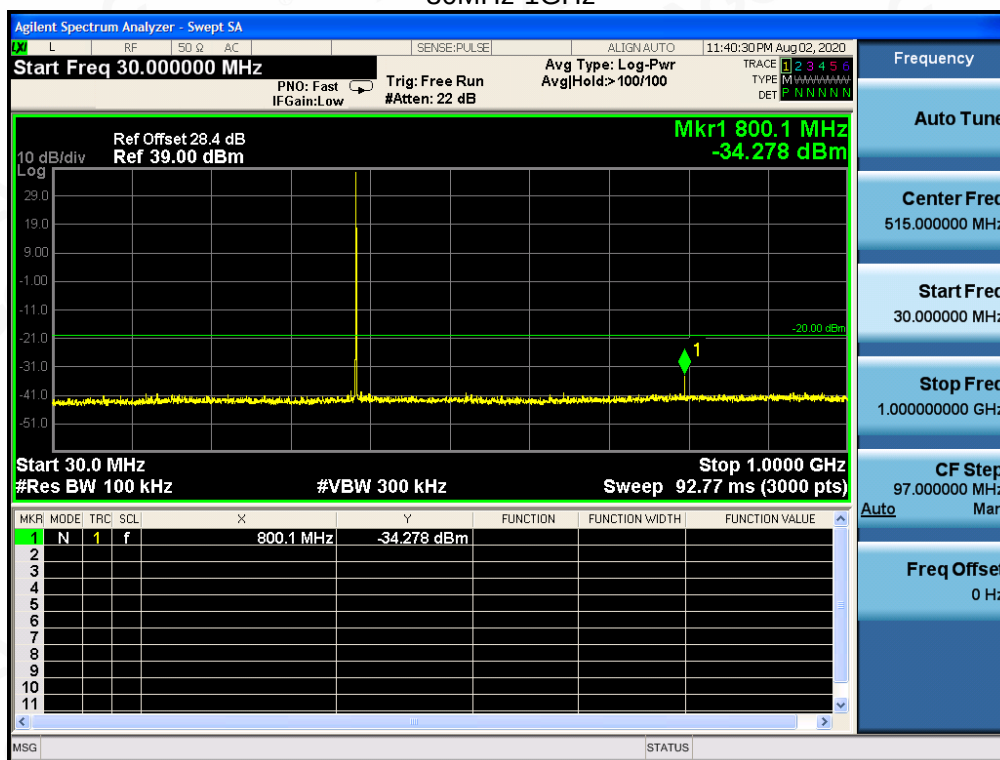
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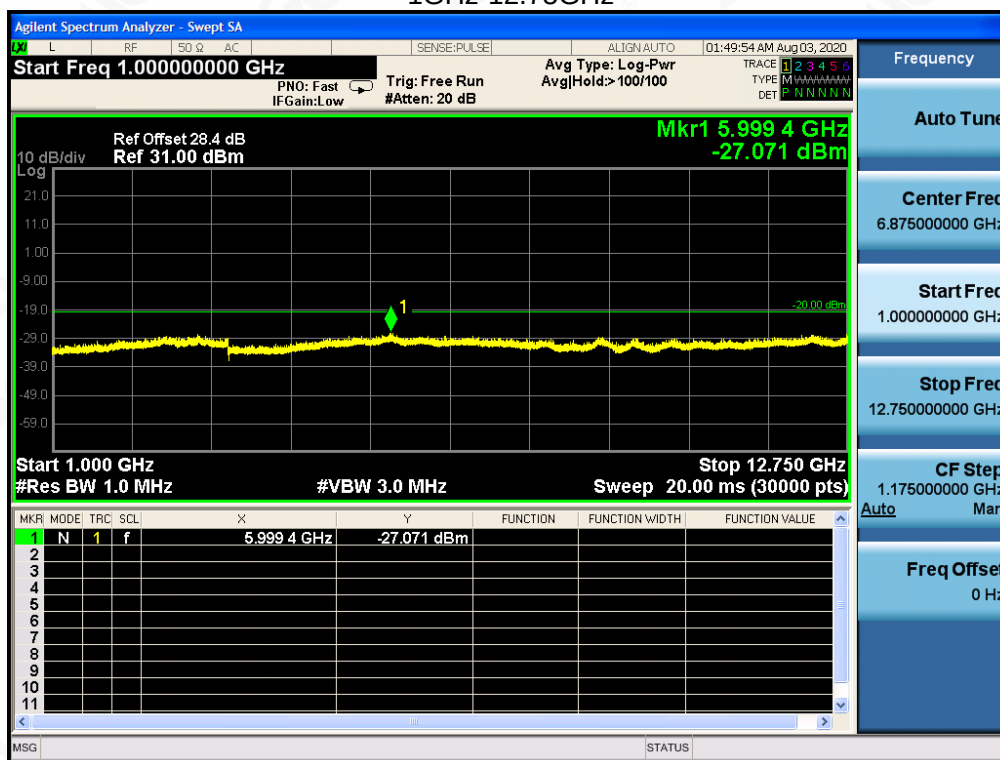


Digital:

Conducted Spurious Emission (worst) @ 400.025MHz With 12.5 KHz Channel Separation-5W
30MHz-1GHz



Conducted Spurious Emission (worst) @ 400.025MHz With 12.5 KHz Channel Separation-5W
1GHz-12.75GHz

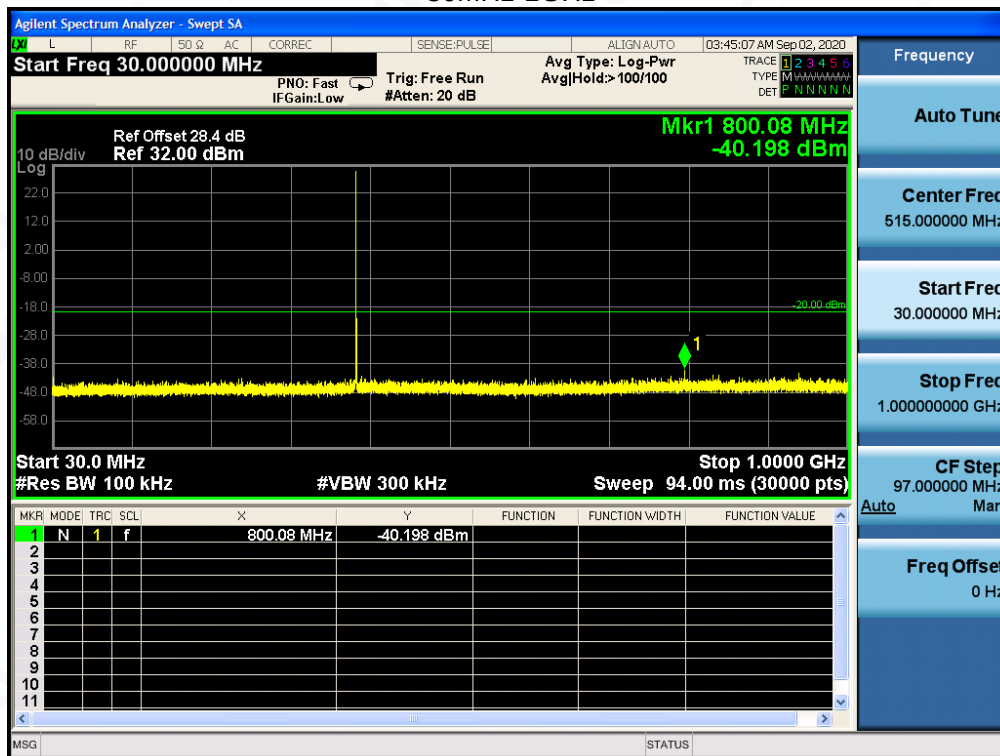


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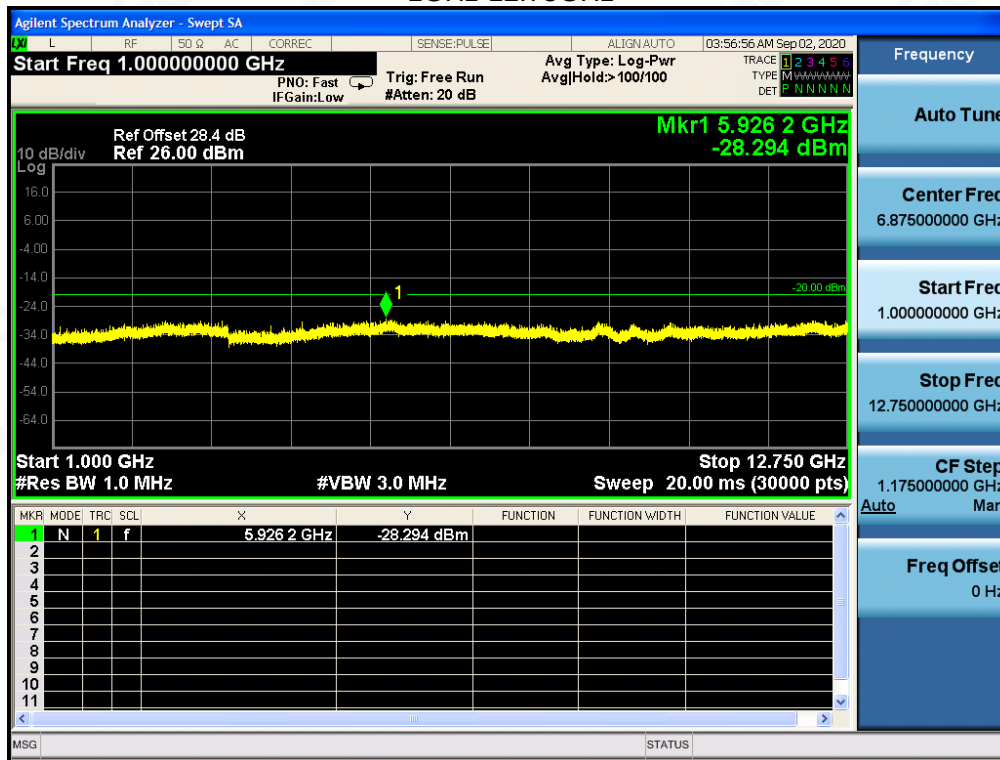
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Conducted Spurious Emission (worst) @ 400.025MHz With 12.5 KHz Channel Separation-1W
30MHz-1GHz



Conducted Spurious Emission (worst) @ 400.025MHz With 12.5 KHz Channel Separation-1W
1GHz-12.75GHz

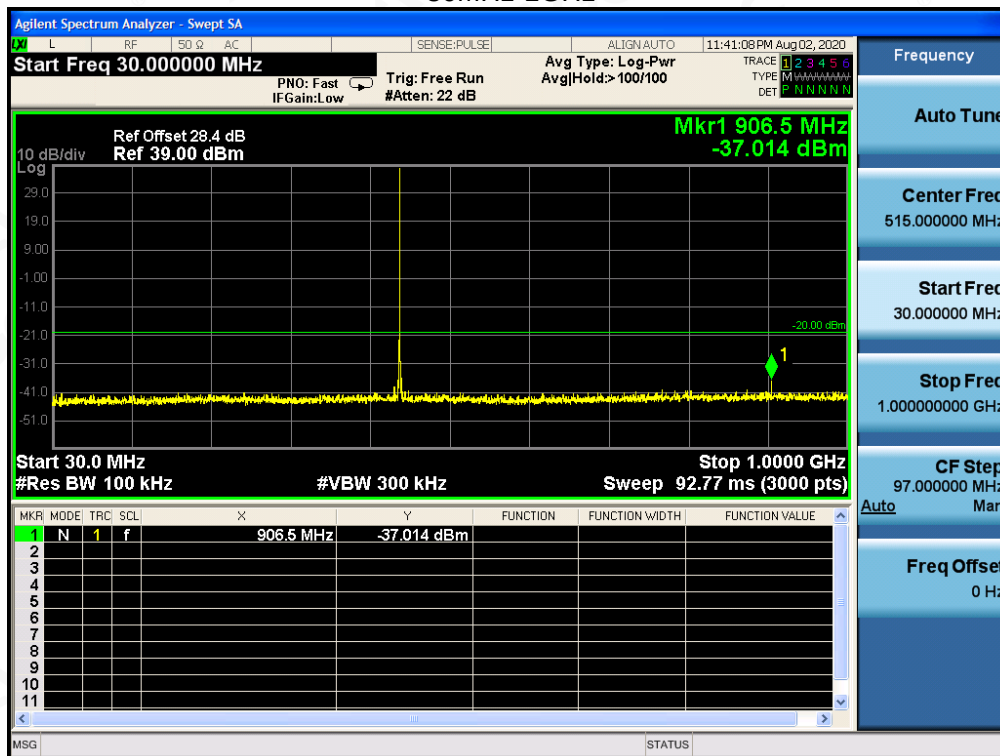


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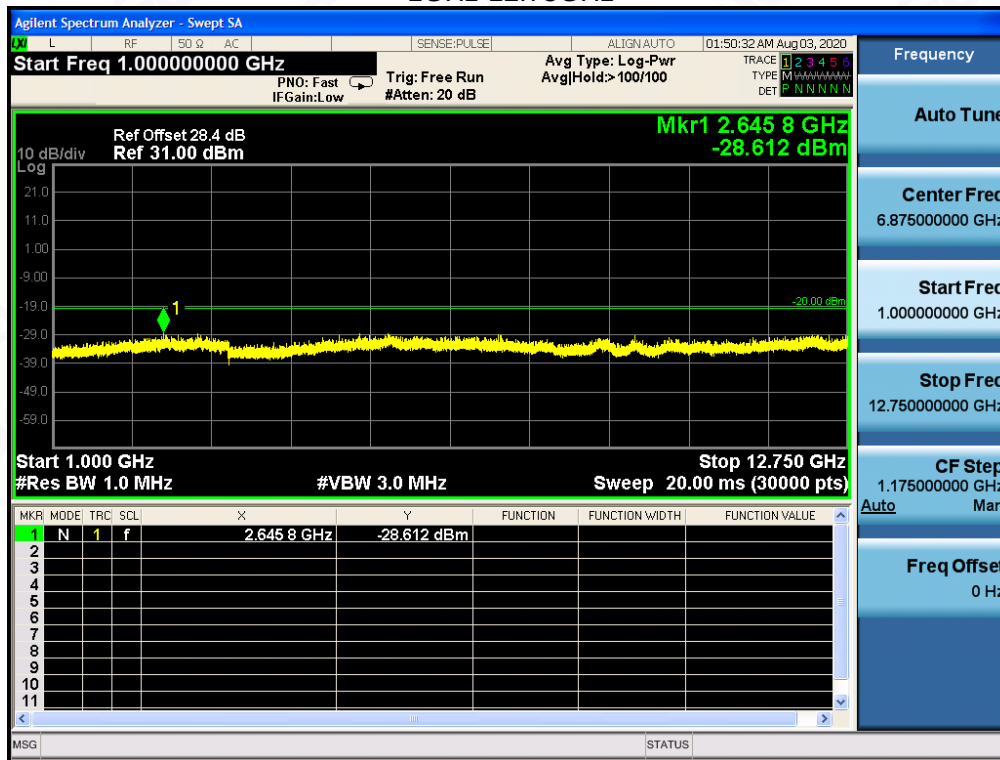
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Conducted Spurious Emission (worst) @ 453.225MHz With 12.5 KHz Channel Separation-5W
30MHz-1GHz



Conducted Spurious Emission (worst) @ 453.225MHz With 12.5 KHz Channel Separation-5W
1GHz-12.75GHz

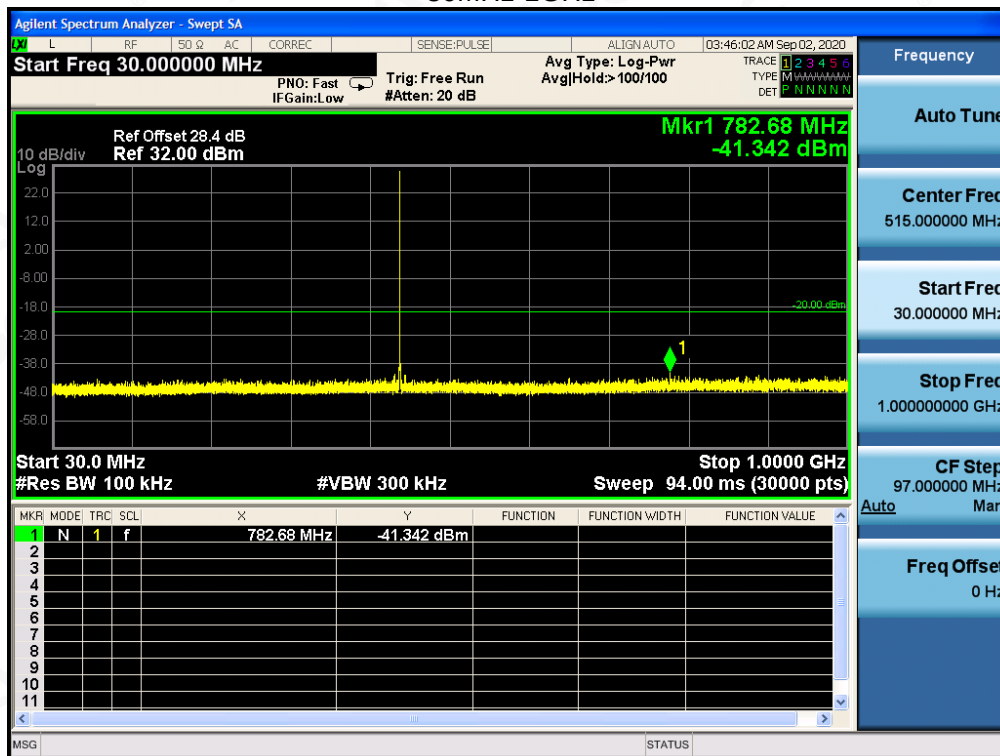


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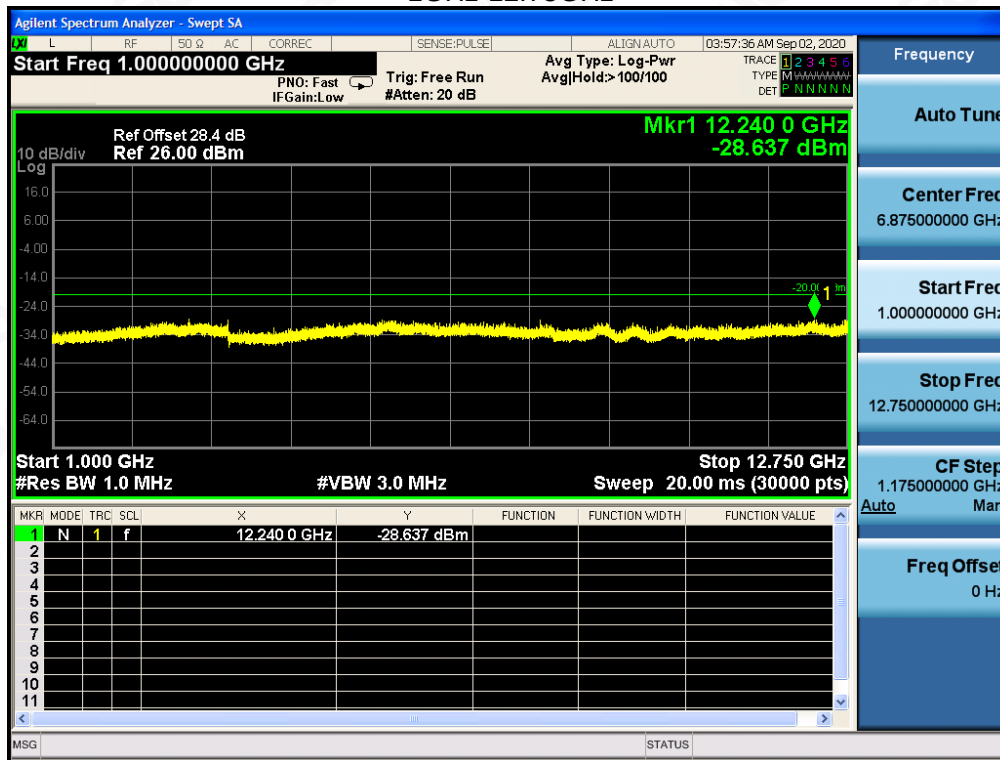
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Conducted Spurious Emission (worst) @ 453.225MHz With 12.5 KHz Channel Separation-1W
30MHz-1GHz



Conducted Spurious Emission (worst) @ 453.225MHz With 12.5 KHz Channel Separation-1W
1GHz-12.75GHz

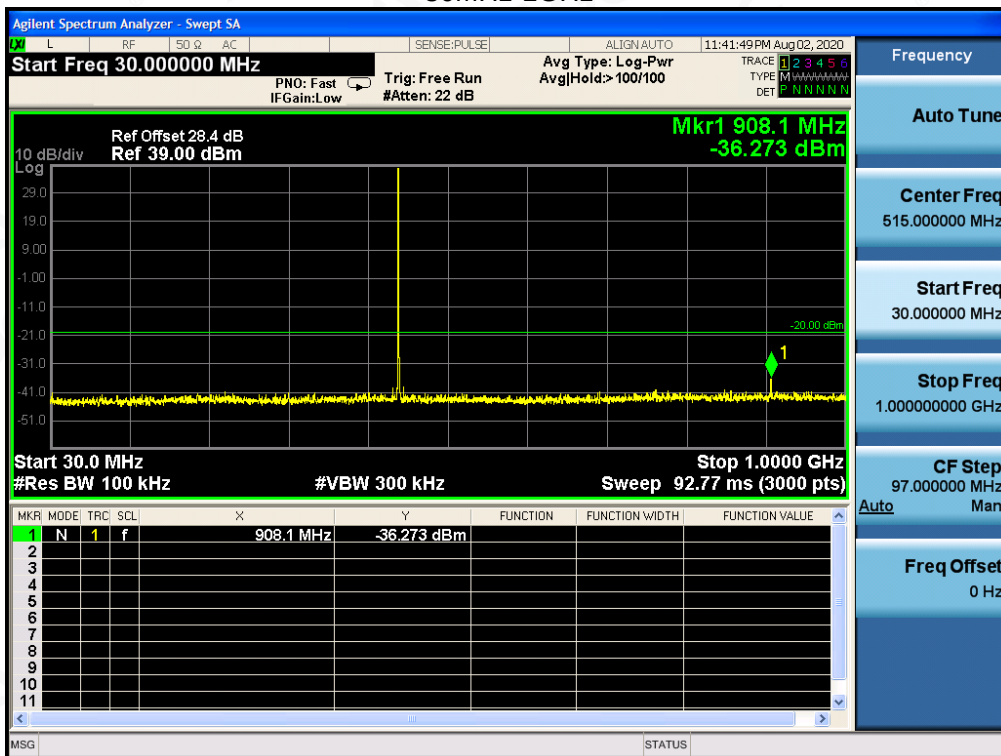


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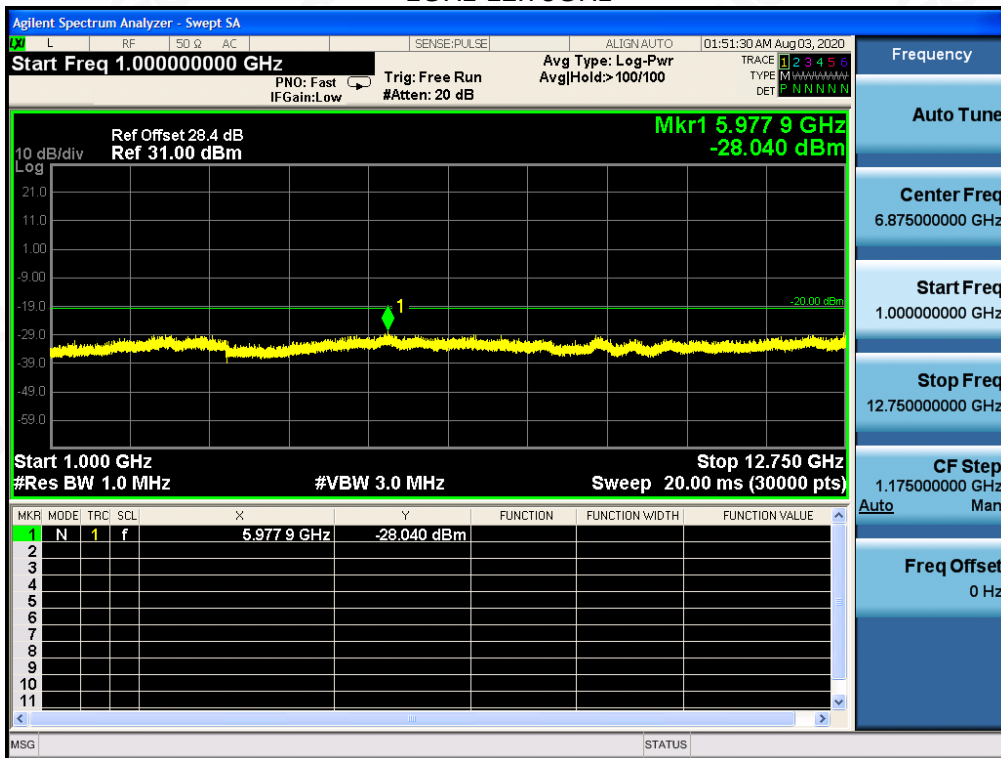
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Conducted Spurious Emission (worst) @ 454.025MHz With 12.5 KHz Channel Separation-5W
30MHz-1GHz



Conducted Spurious Emission (worst) @ 454.025MHz With 12.5 KHz Channel Separation-5W
1GHz-12.75GHz

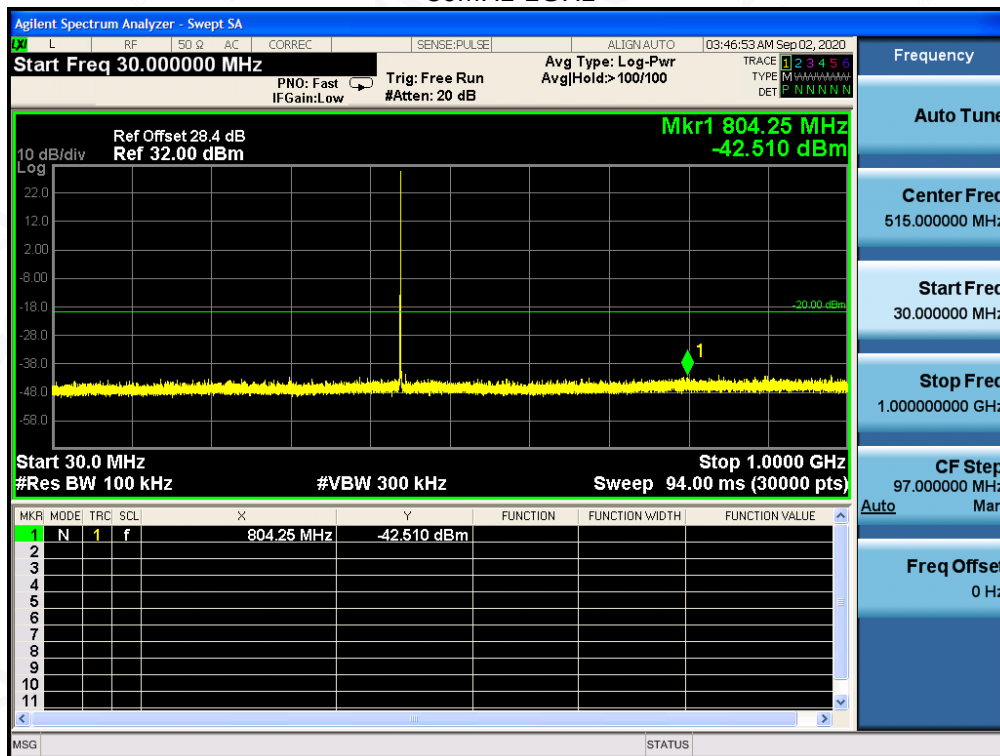


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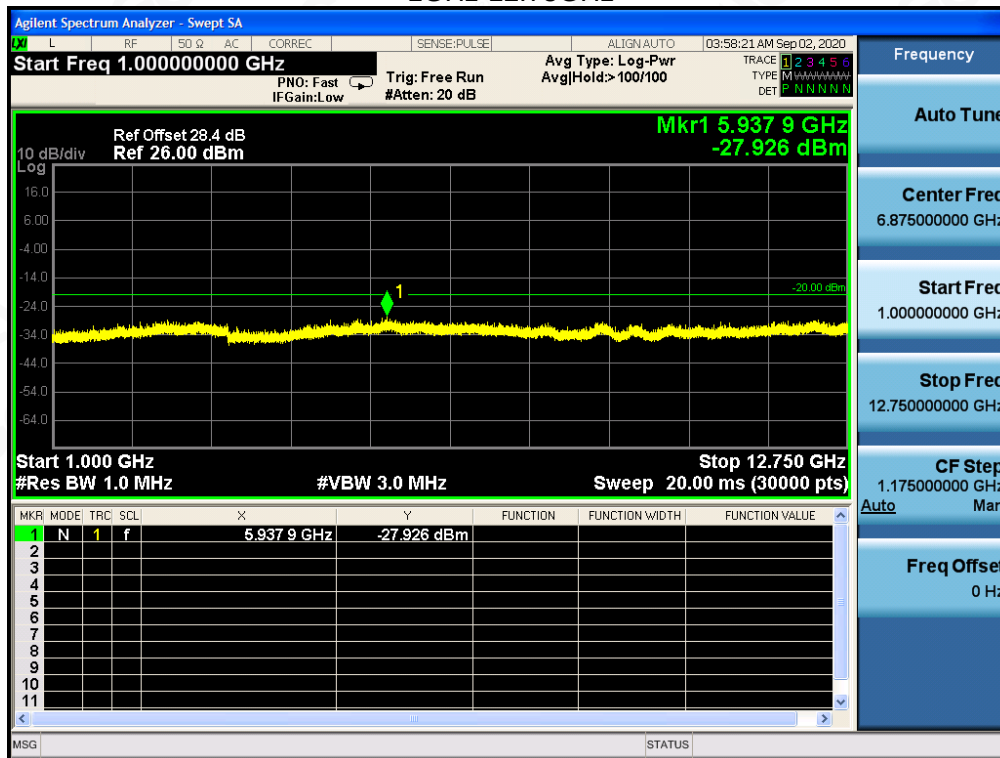
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30MHz-1GHz



Conducted Spurious Emission (worst) @ 454.025MHz With 12.5 KHz Channel Separation-1W
1GHz-12.75GHz

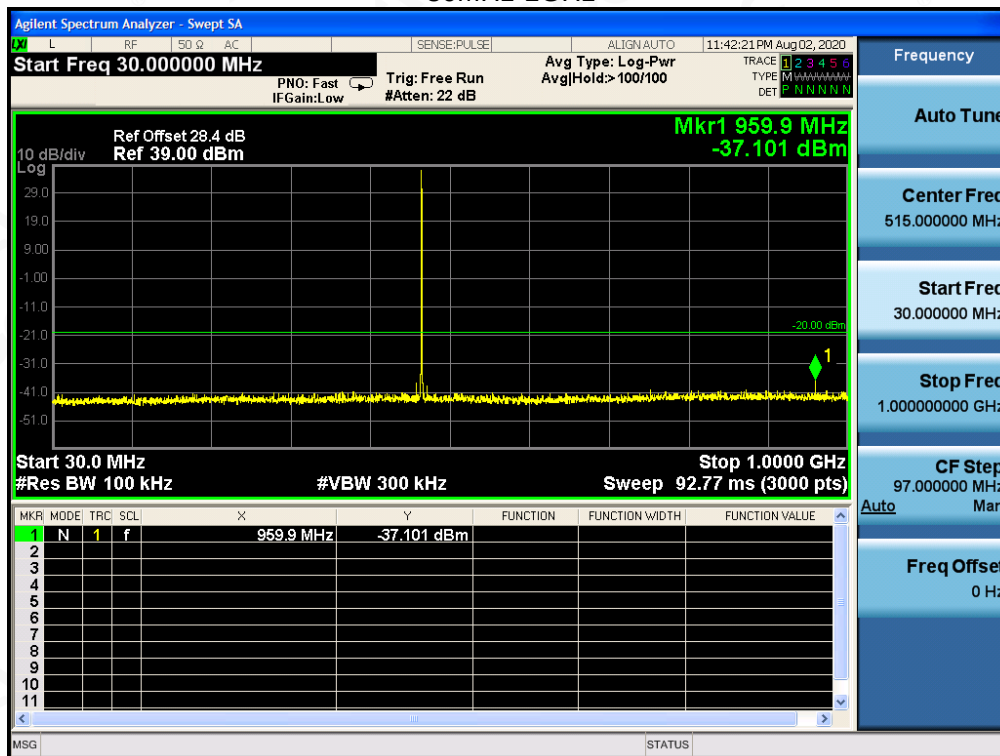


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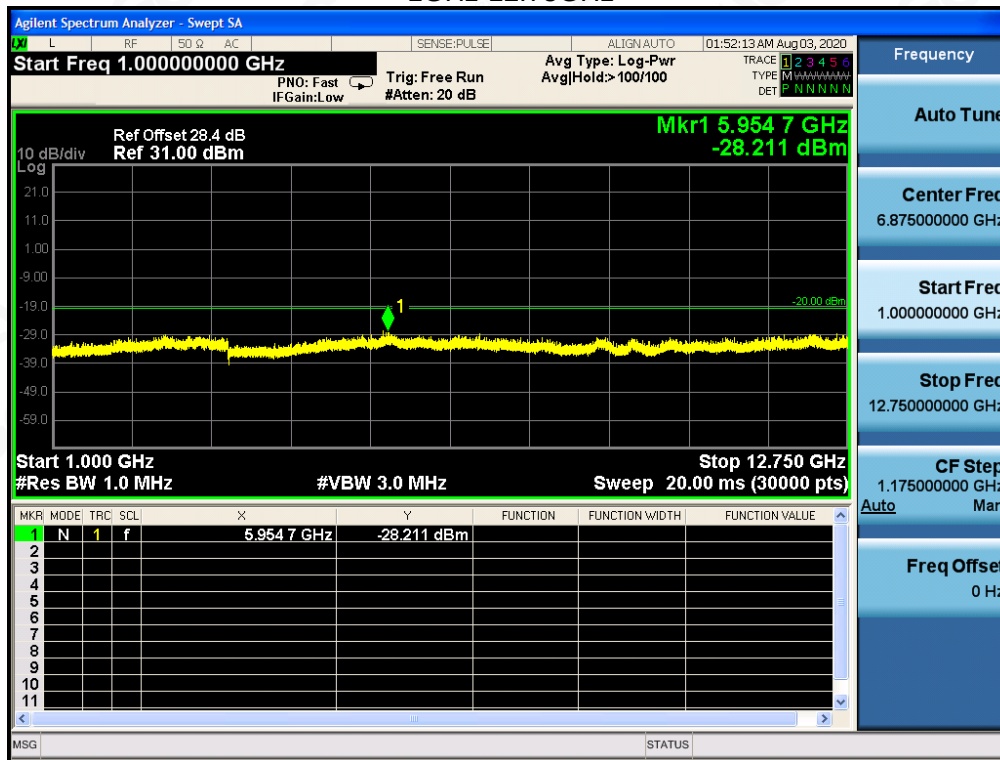
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Conducted Spurious Emission (worst) @ 479.975MHz With 12.5 KHz Channel Separation-5W
30MHz-1GHz



Conducted Spurious Emission (worst) @ 479.975MHz With 12.5 KHz Channel Separation-5W
1GHz-12.75GHz

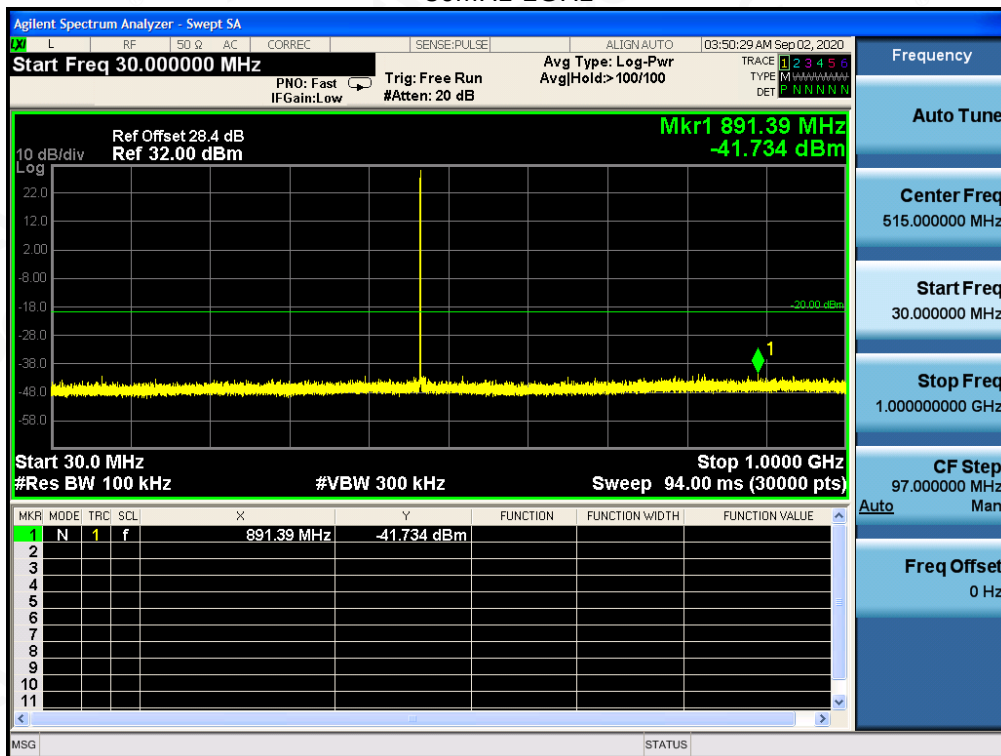


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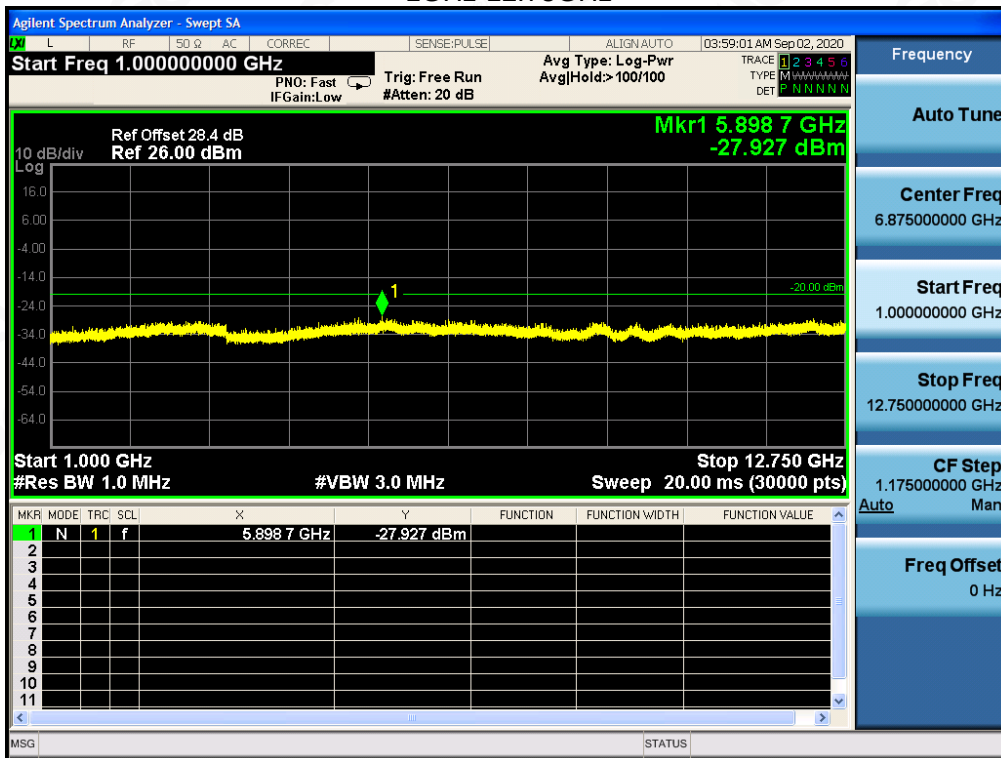
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Conducted Spurious Emission (worst) @ 479.975MHz With 12.5 KHz Channel Separation-1W
30MHz-1GHz



Conducted Spurious Emission (worst) @ 479.975MHz With 12.5 KHz Channel Separation-1W
1GHz-12.75GHz



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Note:

1. In this case, Part 22 (-13 dBm) is less than the limit of Part 90 (-20 dBm), so we do not need to test Part 22, which meets the spurious limits of PART 90+22.
2. All the test frequencies was tested, but only the worst data be recorded in this part.

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12. TRANSMITTER FREQUENCY BEHAVIOR

12.1 PROVISIONS APPLICABLE

FCC §90.214

Time intervals ^{1, 2}	Maximum frequency difference ³	All equipment	
		150 to 174 MHz	421 to 512 MHz
Transient Frequency Behavior for Equipment Designed to Operate on 25 kHz Channels			
t ₁ ⁴	± 25.0 kHz	5.0 ms	10.0 ms
t ₂	± 12.5 kHz	20.0 ms	25.0 ms
t ₃ ⁴	± 25.0 kHz	5.0 ms	10.0 ms
Transient Frequency Behavior for Equipment Designed to Operate on 12.5 kHz Channels			
t ₁ ⁴	± 12.5 kHz	5.0 ms	10.0 ms
t ₂	± 6.25 kHz	20.0 ms	25.0 ms
t ₃ ⁴	± 12.5 kHz	5.0 ms	10.0 ms
Transient Frequency Behavior for Equipment Designed to Operate on 6.25 kHz Channels			
t ₁ ⁴	± 6.25 kHz	5.0 ms	10.0 ms
t ₂	± 3.125 kHz	20.0 ms	25.0 ms
t ₃ ⁴	± 6.25 kHz	5.0 ms	10.0 ms

¹ t_{on} is the instant when a 1 kHz test signal is completely suppressed, including any capture time due to phasing.

t_1 is the time period immediately following t_{on} .

t_2 is the time period immediately following t_1 .

t_3 is the time period from the instant when the transmitter is turned off until t_{off} .

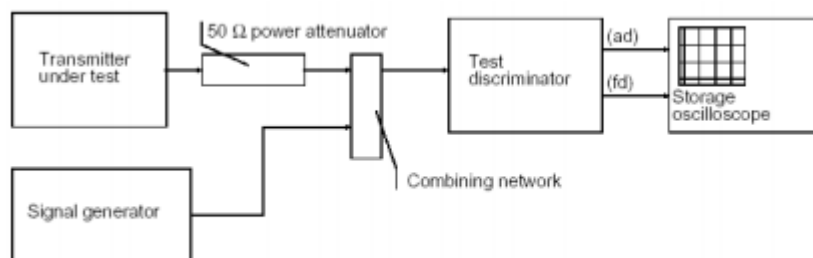
t_{off} is the instant when the 1 kHz test signal starts to rise.

² During the time from the end of t_2 to the beginning of t_3 , the frequency difference must not exceed the limits specified in § 90.213.

³ Difference between the actual transmitter frequency and the assigned transmitter frequency.

⁴ If the transmitter carrier output power rating is 6 watts or less, the frequency difference during this time period may exceed the maximum frequency difference for this time period.

12.2 TEST CONFIGURATION



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12.3 TEST METHOD

According to TIA/EIA-603 2.2.19 requirement, as for the product different from PTT, we use test steps as follows:

1. Connect DUT into Test discriminator and Storage Oscilloscope and keep DUT stats ON;
2. Input 1kHz signal into DUT;
3. Set the modulation domain analyzer to trigger on the rising edge of the waveform in order to capture a single-shot turn-on of the transmitter signals;
4. Keep DUT in OFF state and Key the PTT;
5. Observe the stored oscilloscope of modulation domain analyzer. The signal trace shall be maintained within the allowable limits during the periods t1 and t2, and shall also remain within limits following t2;
6. Adjust the modulation domain analyzer to trigger on the falling edge of the transmitter waveform in order to capture a single-shot turn-off transmitter of the transmitter signal.
7. Keep the digital portable radio in ON state and unkey the PTT;
8. Observe the stored oscilloscope of modulation domain analyzer, The signal trace shall be maintained within the allowable limits during the period t3.
9. Set the signal generator to the assigned transmitter frequency and modulate it with a 1 kHz tone at ± 12.5 kHz deviation and set its output level to -100dBm.
10. Turn on the transmitter.
11. Supply sufficient attenuation via the RF attenuator to provide an input level to the stored oscilloscope that is 40 dB below the maximum allowed input power when the transmitter is operating at its rated power level. Note this power level on the stored oscilloscope as P0.
12. Turn off the transmitter.
13. Adjust the RF level of the signal generator to provide RF power equal to P0. This signal generator RF level shall be maintained throughout the rest of the measurement.
14. Remove the attenuation, so the input power to the stored oscilloscope is increased by 30 dB when the transmitter is turned on.
15. Adjust the vertical amplitude control of the stored oscilloscope to display the 1000 Hz at ± 4 divisions vertically centered on the display. Set trigger mode of the Spectrum Analyzer to "Video", and tune the "trigger level" on suitable level. Then set the "trigger offset" to -10ms for turn on and -15ms for turn off.
16. Turn on the transmitter and the transient wave will be captured on the screen of Spectrum Analyzer. Observe the stored display. The instant when the 1 kHz test signal is completely suppressed is considered to be ton. The trace should be maintained within the allowed divisions during the period t1 and t2.
17. Then turn off the transmitter, and another transient wave will be captured on the screen of Spectrum Analyzer. The trace should be maintained within the allowed divisions during the period t3.

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12.4 DESCRIBE LIMIT LINE OF RANSMITTER FREQUENCY BEHAVIOR

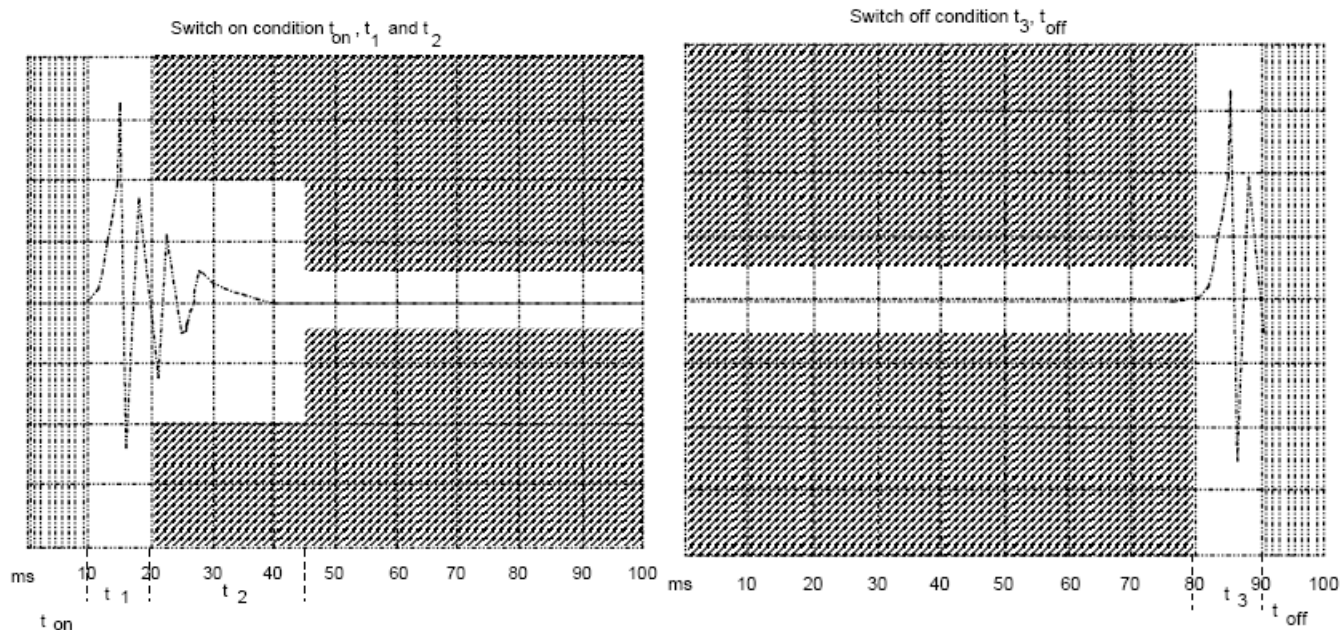
ton: The switch-on instant t_{on} of a transmitter is defined by the condition when the output power, measured at the antenna terminal, exceeds 0,1 % of the full output power (-30 dBc).

t1: period of time starting at t_{on} and finishing according to above 11.1

t2: period of time starting at the end of t_1 and finishing according to above 11.1

toff: switch-off instant defined by the condition when the output power falls below 0,1 % of the full output power (-30 dBc).

t3: period of time that finishing at t_{off} and starting according to above 11.1



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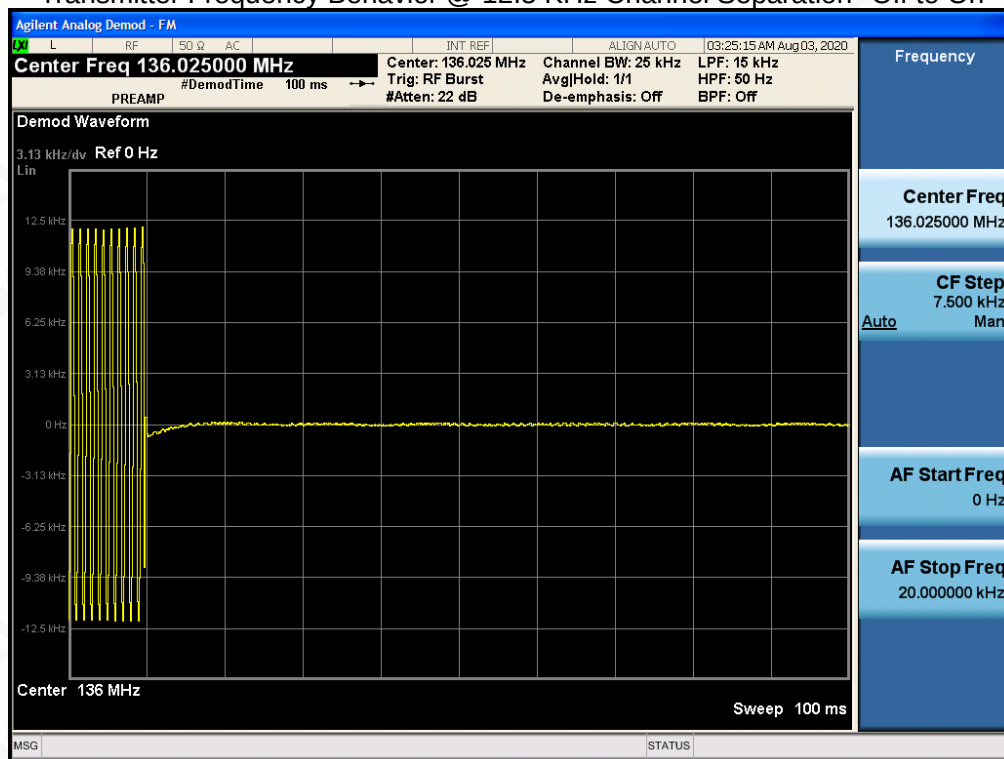
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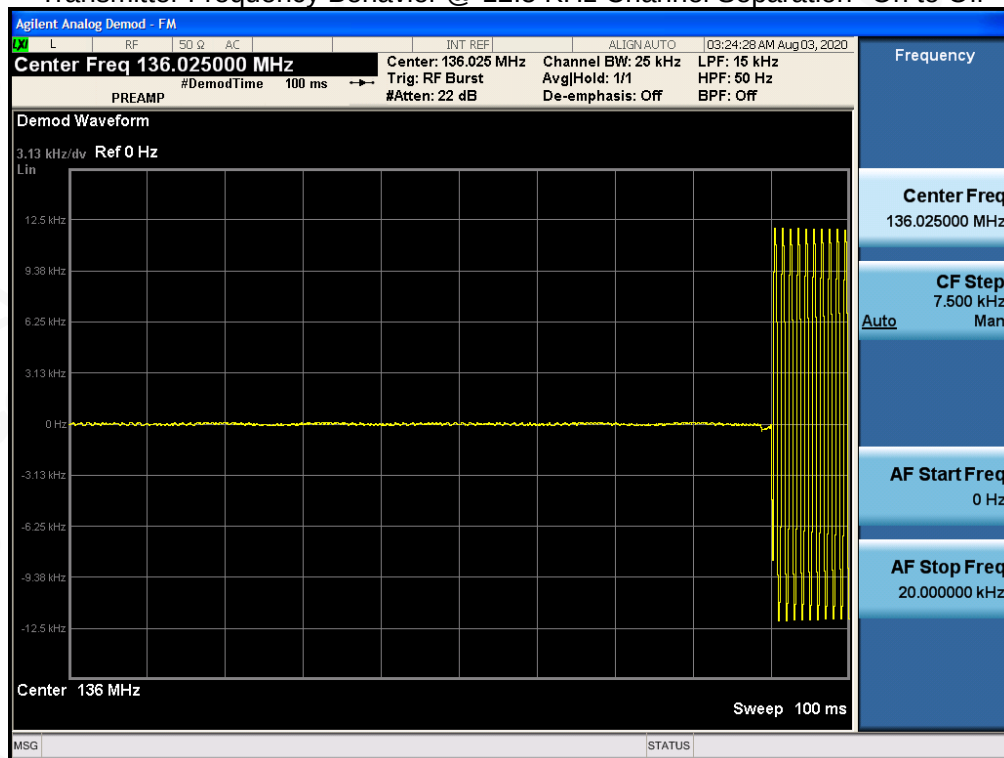
12.5 MEASURE RESULT

VHF:

Transmitter Frequency Behavior @ 12.5 KHz Channel Separation--Off to On



Transmitter Frequency Behavior @ 12.5 KHz Channel Separation--On to Off



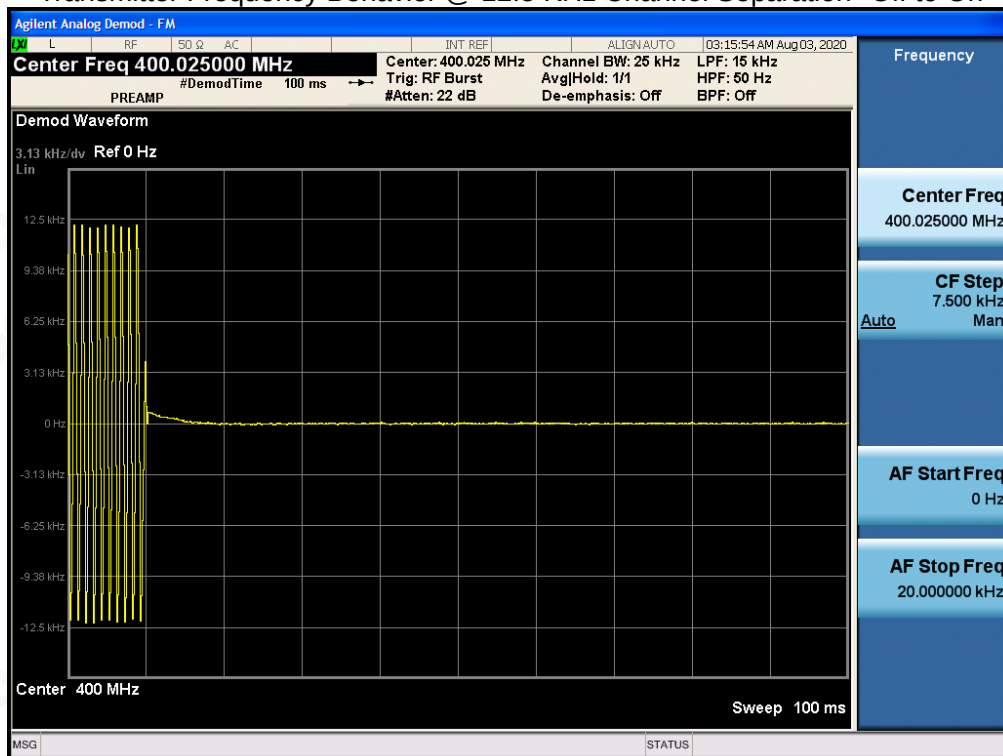
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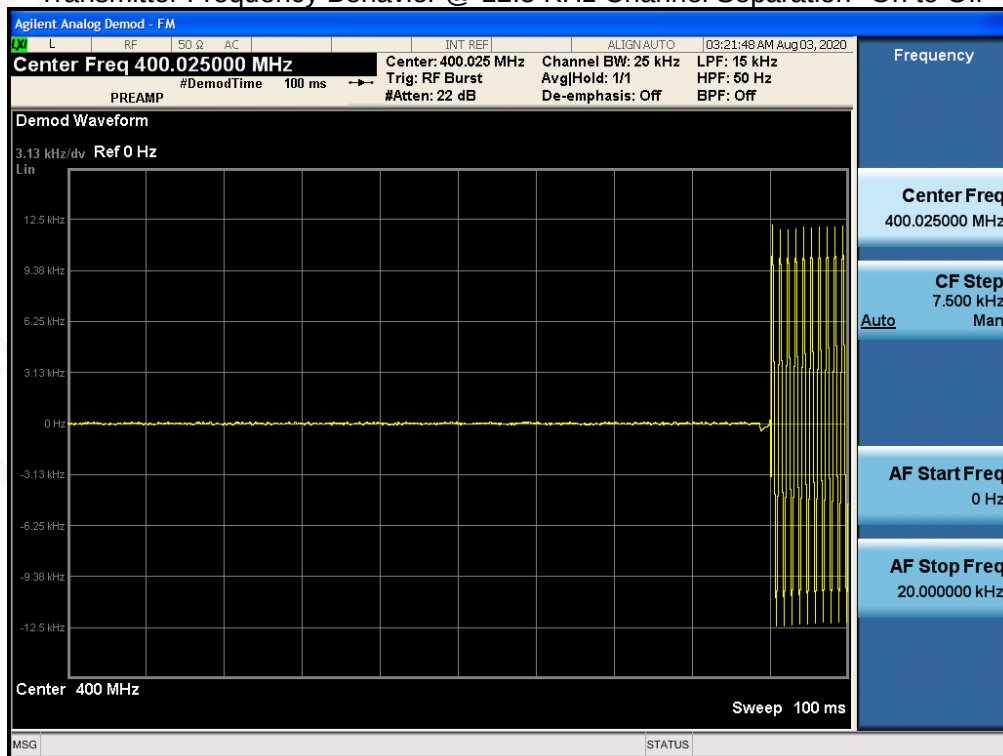


UHF:

Transmitter Frequency Behavior @ 12.5 KHz Channel Separation--Off to On



Transmitter Frequency Behavior @ 12.5 KHz Channel Separation--On to Off



Note: All the test frequencies was tested, but only the worst data be recorded in this part.

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13. AUDIO LOW PASS FILTER RESPONSE

13.1. TEST LIMITS

2.1047(a): Voice modulated communication equipment. A curve or equivalent data showing the frequency response of the audio modulating circuit over a range of 100 to 5000 Hz shall be submitted. For equipment required to have an audio low-pass filter, a curve showing the frequency response of the filter or of all circuitry installed between the modulation limiter and the modulated stage shall be submitted.

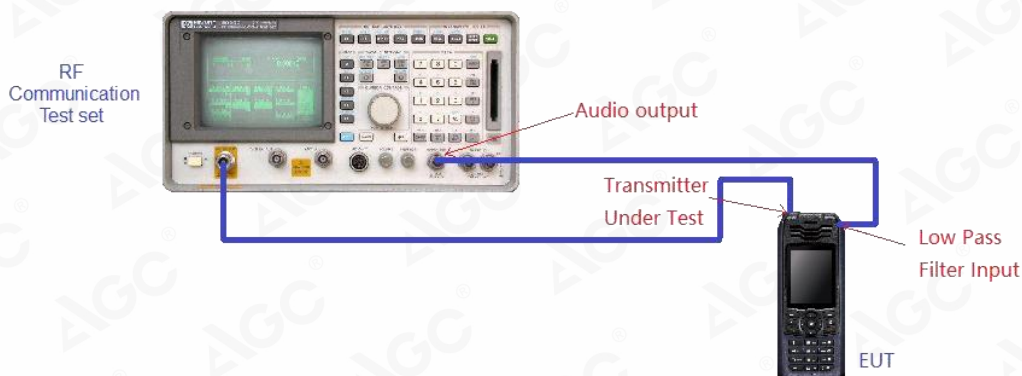
90.242(b)(8): Recommended audio filter attenuation characteristics are given below:

Audio band	Minimum Attenuation Rel. to 1 KHz Attenuation
3 – 20 KHz	$60 \log_{10}(f/3)$ dB where f is in KHz
20 – 30 KHz	50dB

13.2. METHOD OF MEASUREMENTS

The rated audio input signal was applied to the input of the audio low-pass filter (or of all modulation stages) using an audio oscillator, this input signal level and its corresponding output signal were then measured and recorded using the FFT Digital Spectrum Analyzer. Tests were repeated at different audio signal frequencies from 0 to 50 KHz.

13.3. TEST CONFIGURATION



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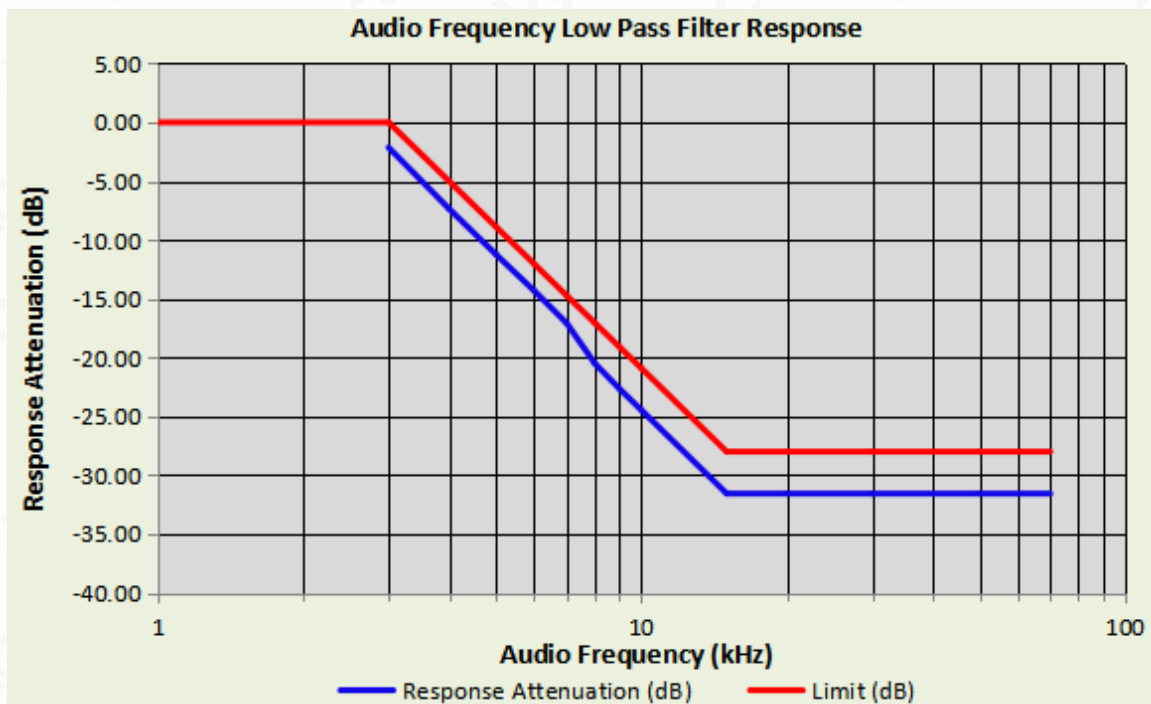


13.4.MEASURE RESULT

Analog:

12.5 KHZ CHANNEL SPACING, F3E, FREQUENCY OF ALL MODULATION STATES (TEST RESULT FOR UHF)-5W

Audio Frequency (kHz)	Response Attenuation (dB)	Limit (dB)
1	0	/
3	-2.14	0.00
4	-7.35	-5.00
5	-11.22	-8.87
6	-14.32	-12.04
7	-17.07	-14.72
8	-20.48	-17.04
9	-22.64	-19.08
10	-24.48	-20.92
15	-31.56	-28.00
20	-31.56	-28.00
30	-31.56	-28.00
50	-31.56	-28.00
70	-31.56	-28.00



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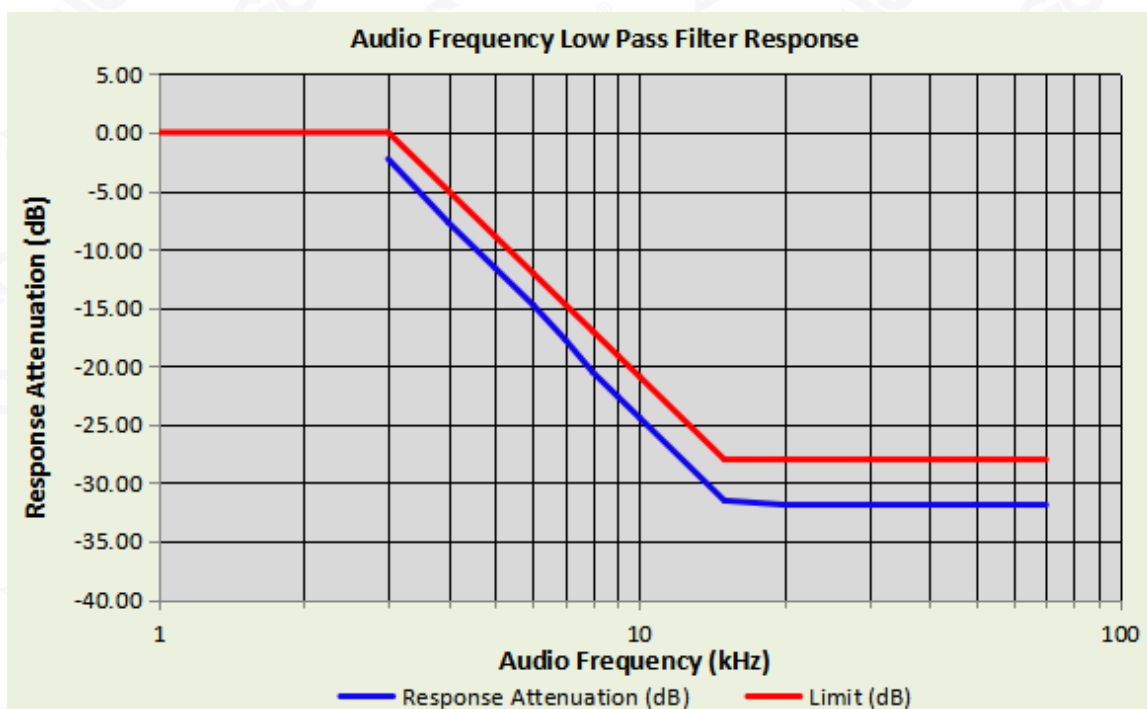
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12.5 KHZ CHANNEL SPACING, F3E, FREQUENCY OF ALL MODULATION STATES (TEST RESULT FOR VHF)-5W

Audio Frequency (kHz)	Response Attenuation (dB)	Limit (dB)
1	0	/
3	-2.28	0.00
4	-7.72	-5.00
5	-11.59	-8.87
6	-14.76	-12.04
7	-17.73	-14.72
8	-20.56	-17.04
9	-22.60	-19.08
10	-24.44	-20.92
15	-31.52	-28.00
20	-31.88	-28.00
30	-31.88	-28.00
50	-31.88	-28.00
70	-31.88	-28.00



Note: All the test frequencies was tested, but only the worst data be recorded in this part.

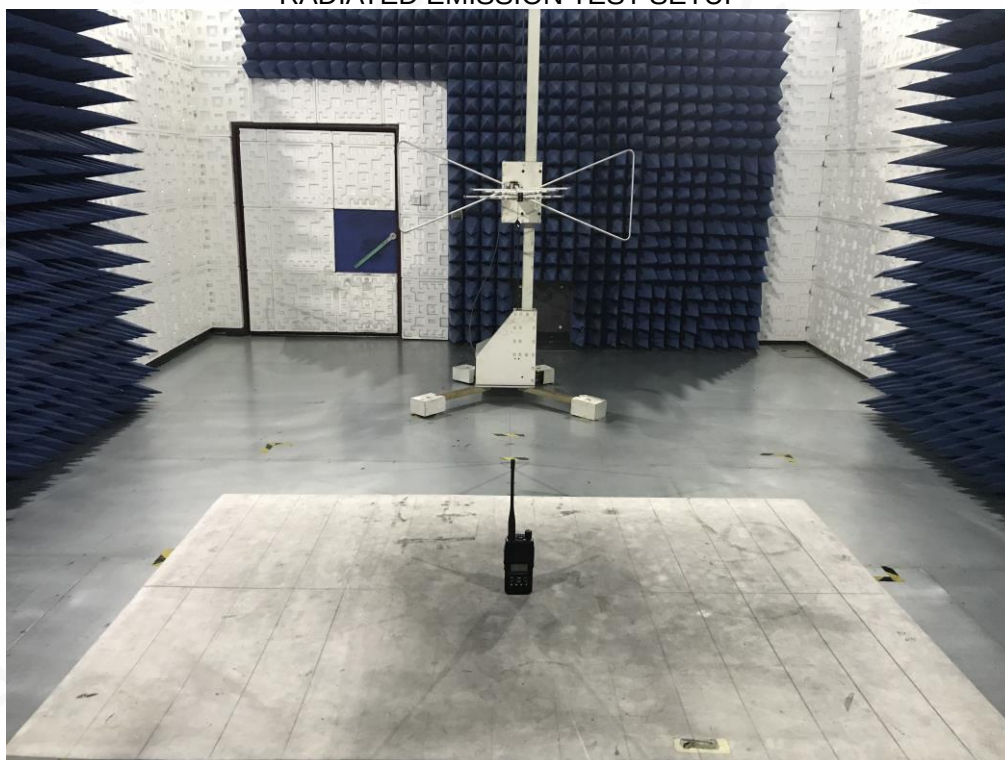
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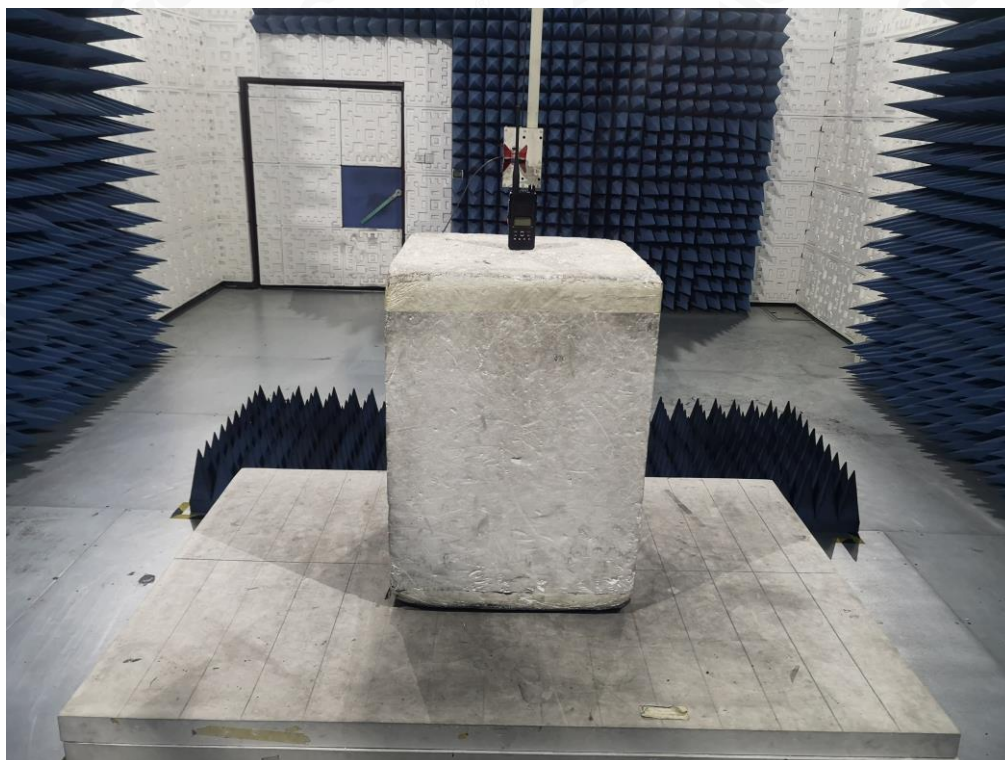


APPENDIX I: PHOTOGRAPHS OF SETUP

RADIATED EMISSION TEST SETUP



RADIATED EMISSION ABOVE 1G TEST SETUP

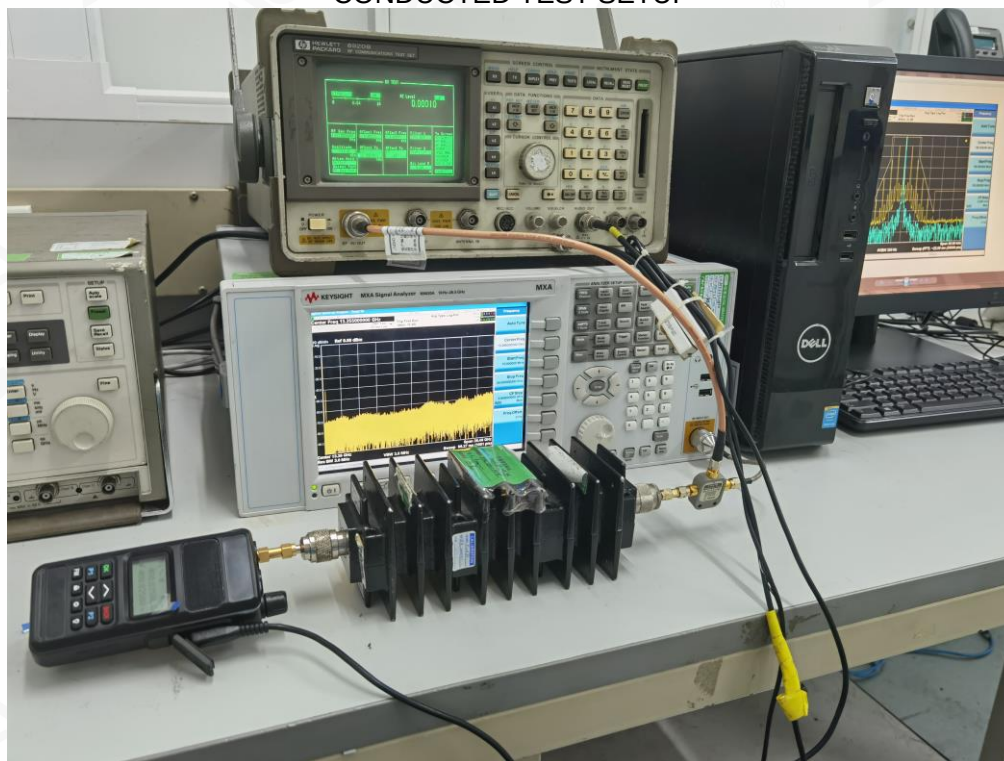


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CONDUCTED TEST SETUP



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APPENDIX II: EXTERNAL VIEW OF EUT

WHOLE VIEW OF EUT



TOP VIEW OF EUT



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