

Broadband PCS Band_Upper band edge_Pre-AGC



Broadband PCS Band_Upper band edge_AG+10dB



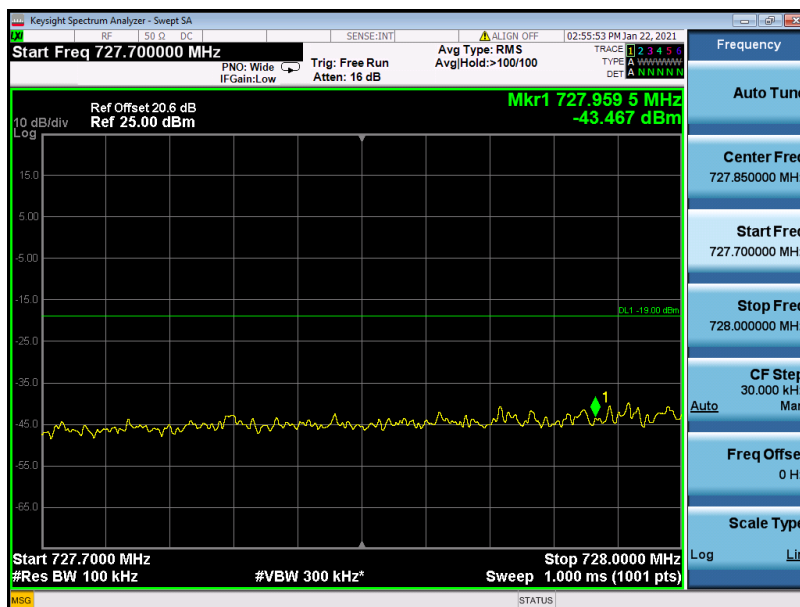
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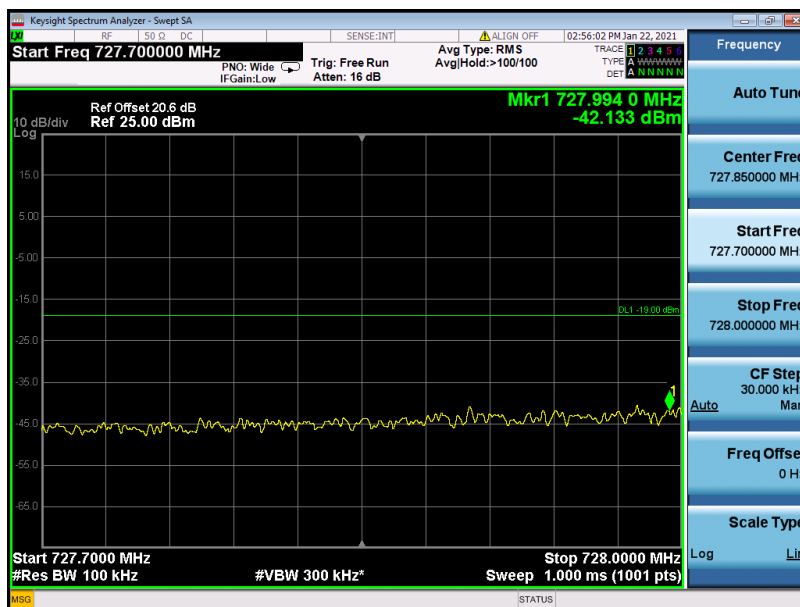
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DOWNLINK_1.25MHz AWGN signal type

700MHz (Lower 700MHz + Upper 700MHz) Band_Lower band edge_Pre-AGC



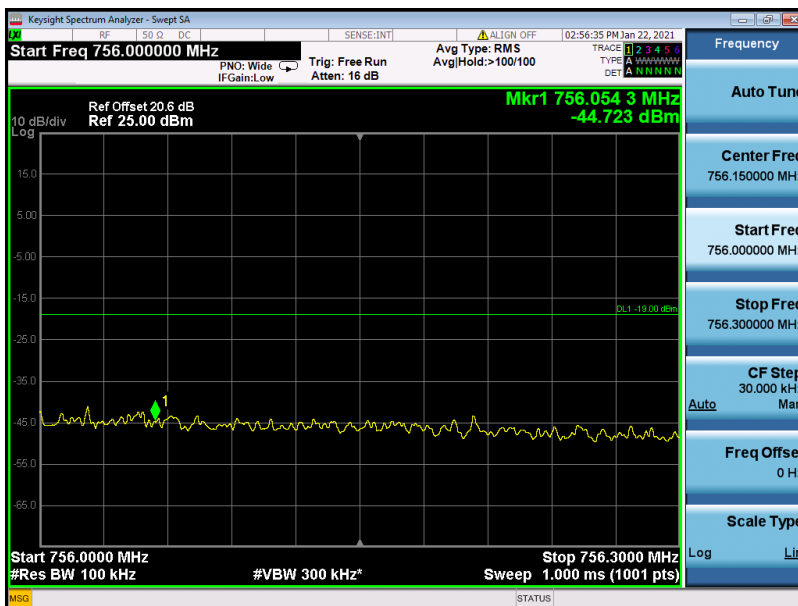
700MHz (Lower 700MHz + Upper 700MHz) Band_Lower band edge_AGC+10dB



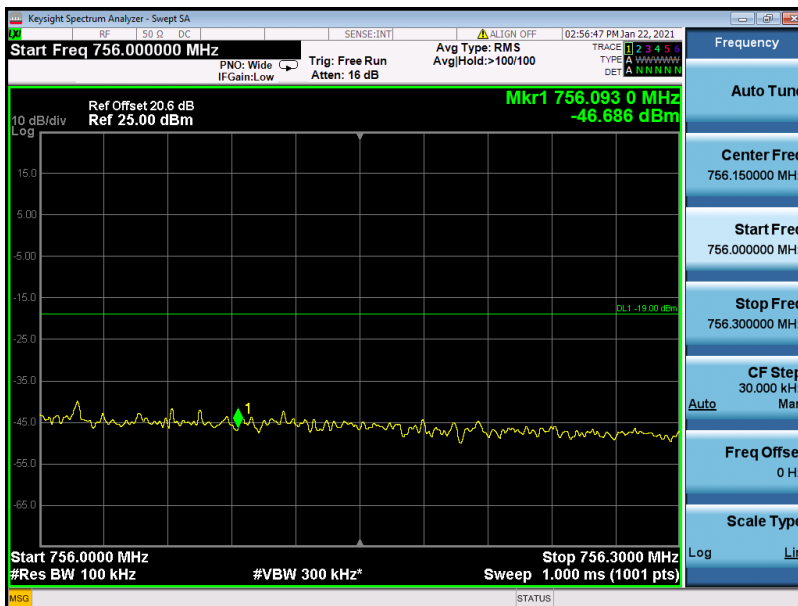
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700MHz (Lower 700MHz + Upper 700MHz) Band_Upper band edge_Pre-AGC



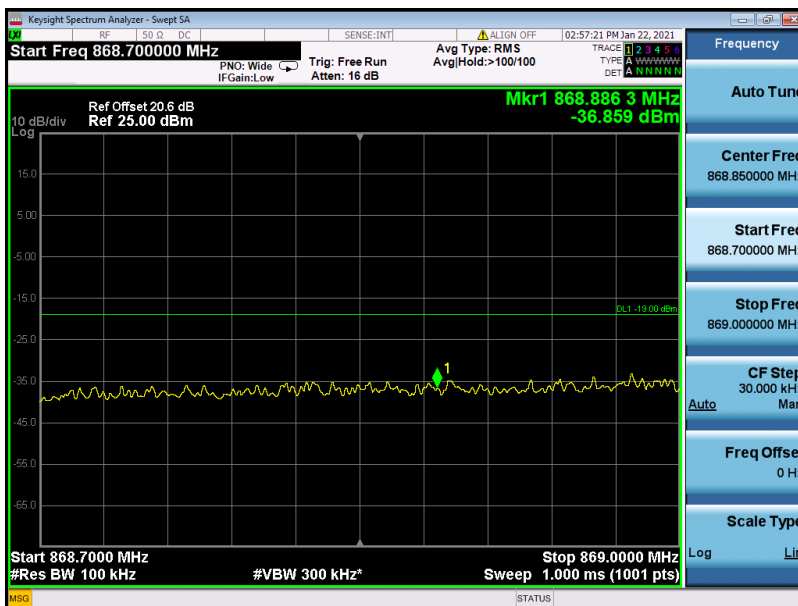
700MHz (Lower 700MHz + Upper 700MHz) Band_Upper band edge_AG+10dB



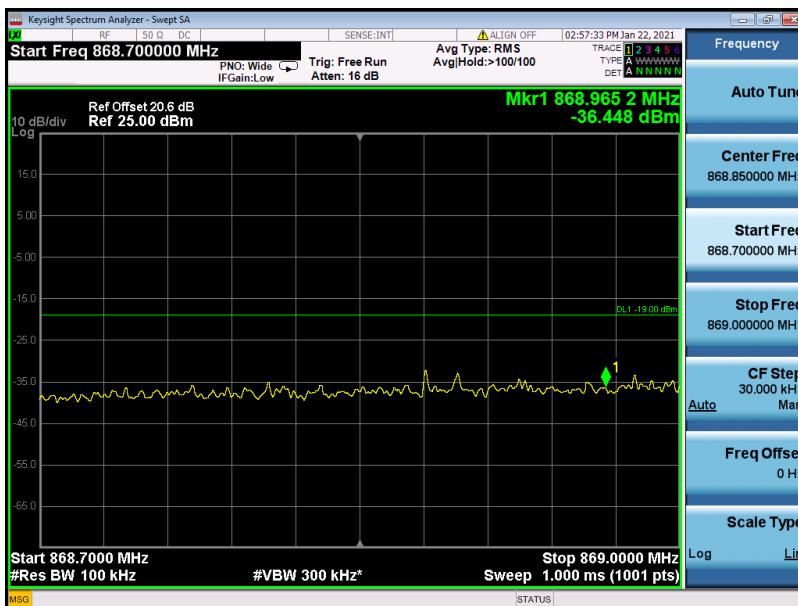
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Cellular Band_Lower band edge_Pre-AGC



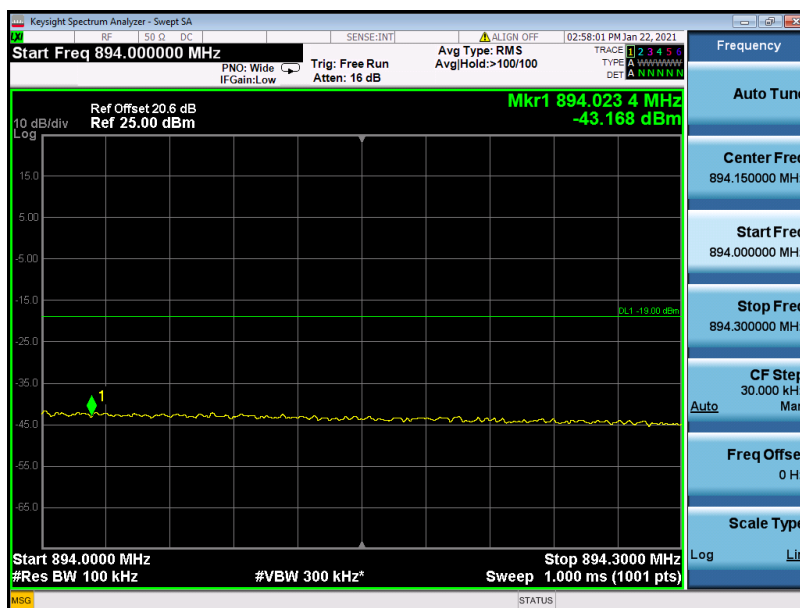
Cellular Band_Lower band edge_AGC+10dB



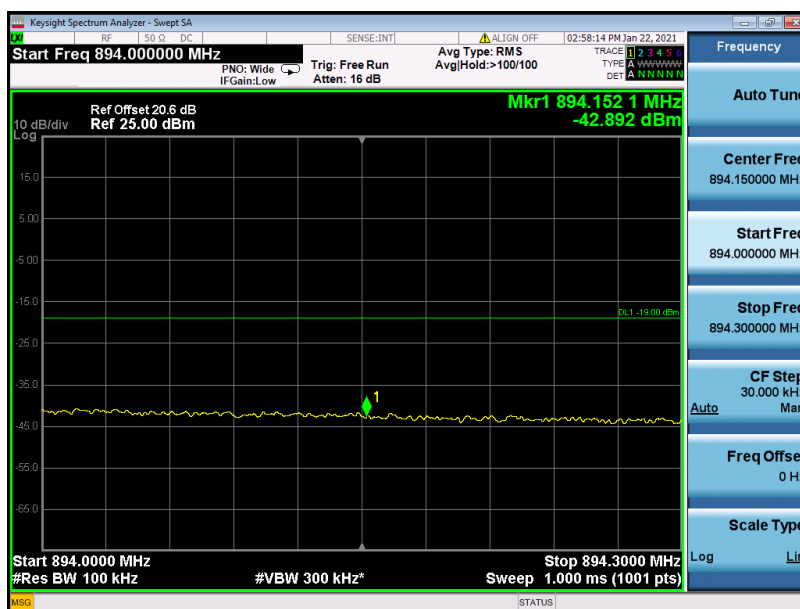
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Cellular Band_Upper band edge_Pre-AGC



Cellular Band_Upper band edge_AGC+10dB

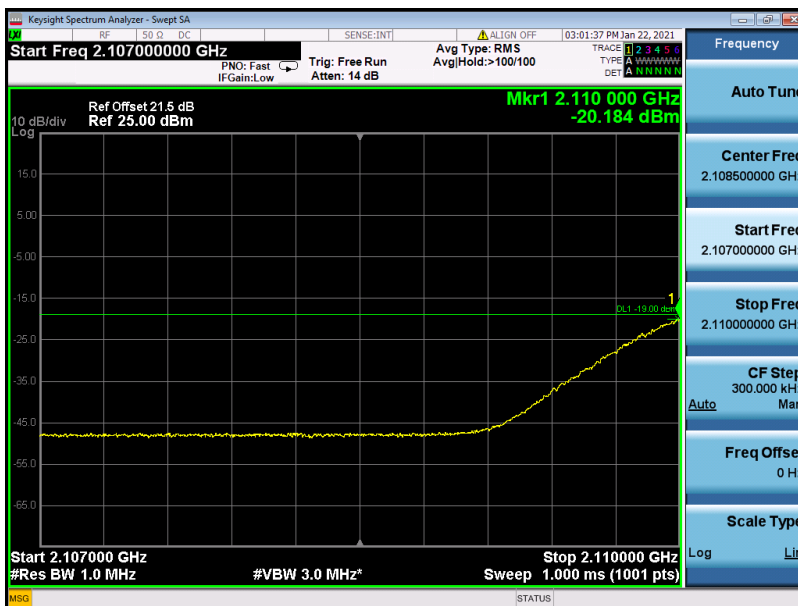


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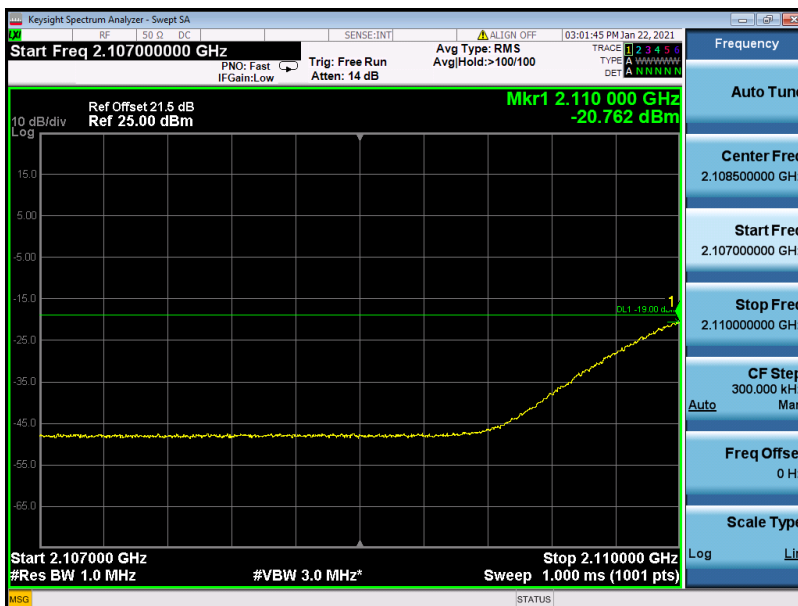
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AWS-1 Band_Lower band edge_Pre-AGC



AWS-1 Band_Lower band edge_AGC+10dB

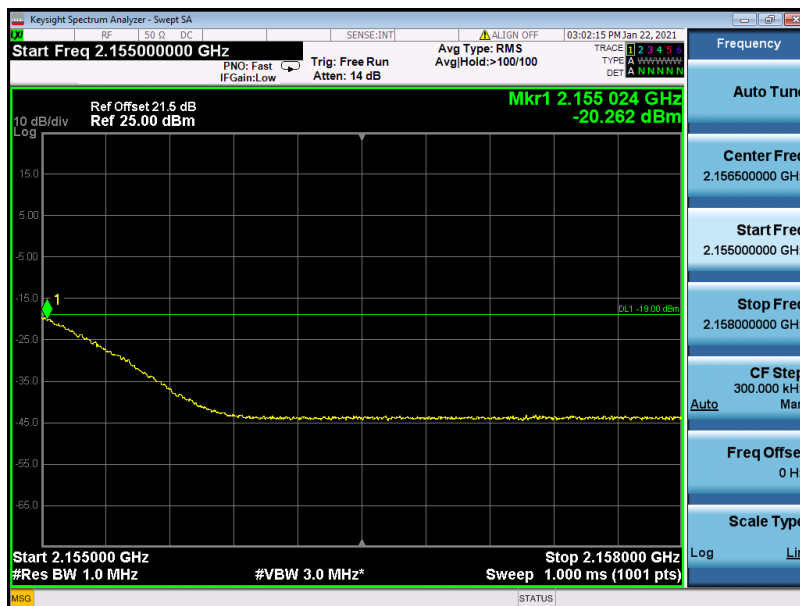


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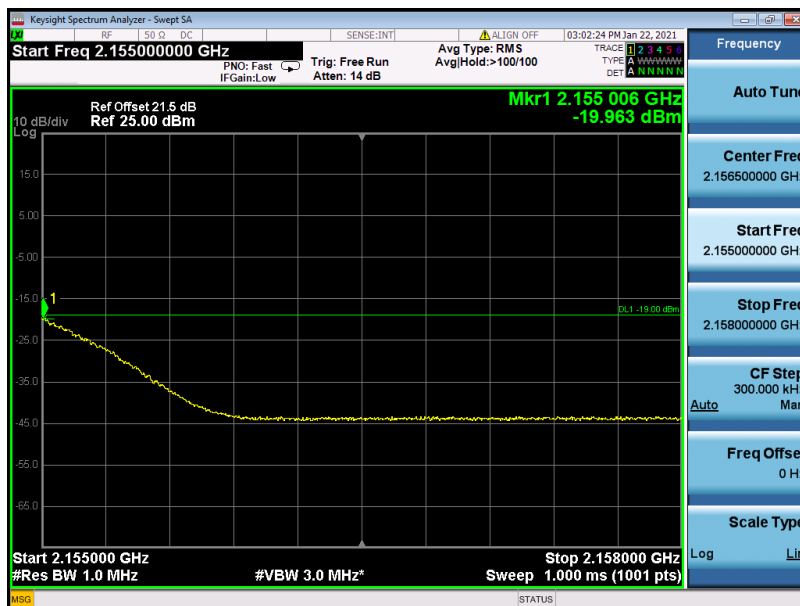
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AWS-1 Band_Upper band edge_Pre-AGC



AWS-1 Band_Upper band edge_AGC+10dB

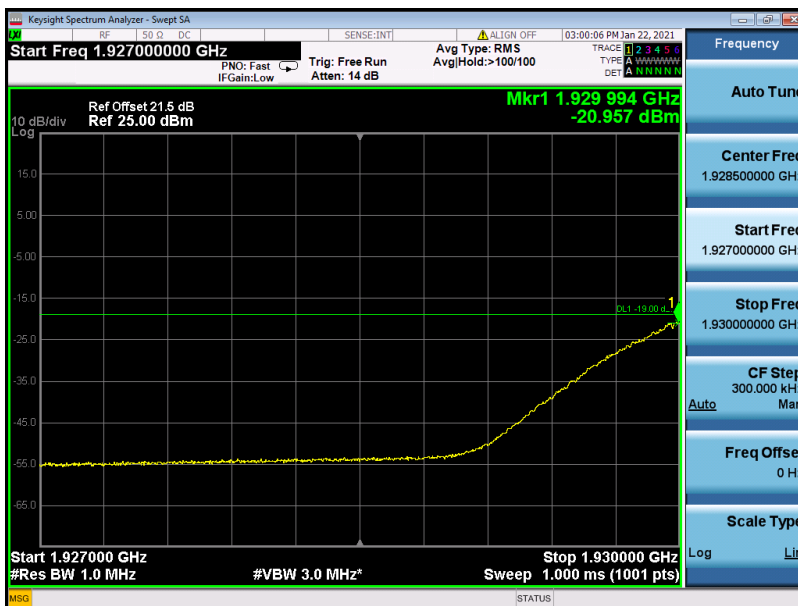


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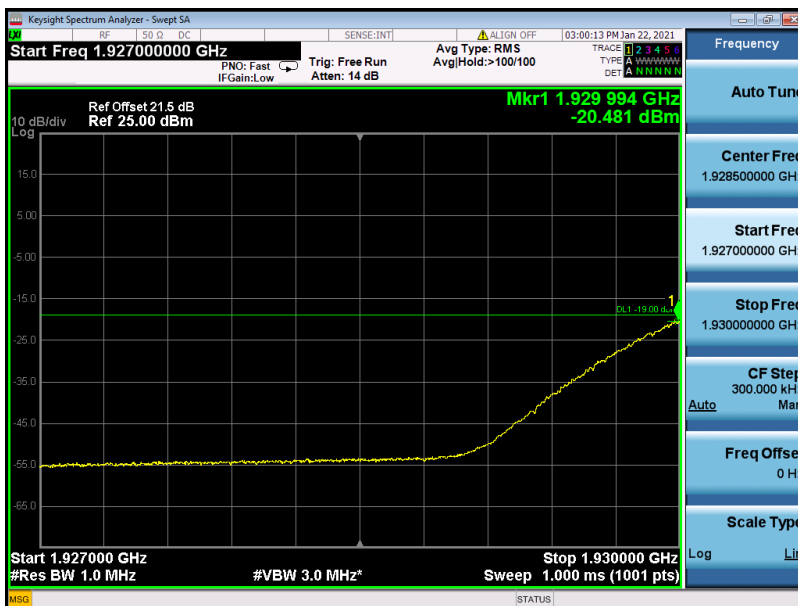
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Broadband PCS Band_Lower band edge_Pre-AGC



Broadband PCS Band_Lower band edge_AG+10dB

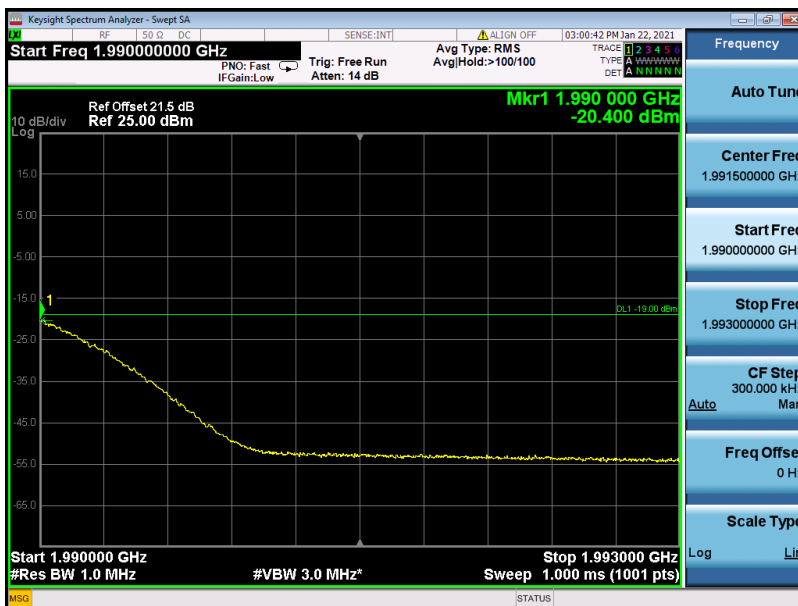


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Broadband PCS Band_Upper band edge_Pre-AGC



Broadband PCS Band_Upper band edge_AGC+10dB



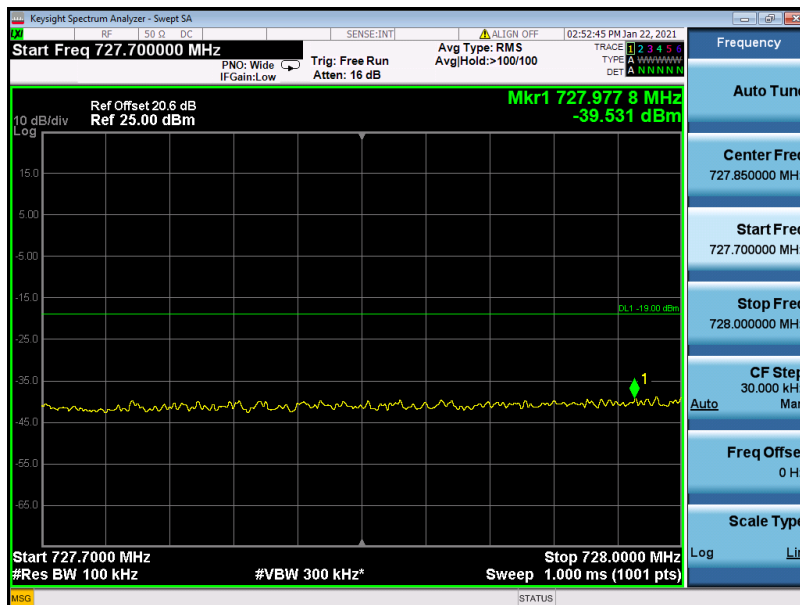
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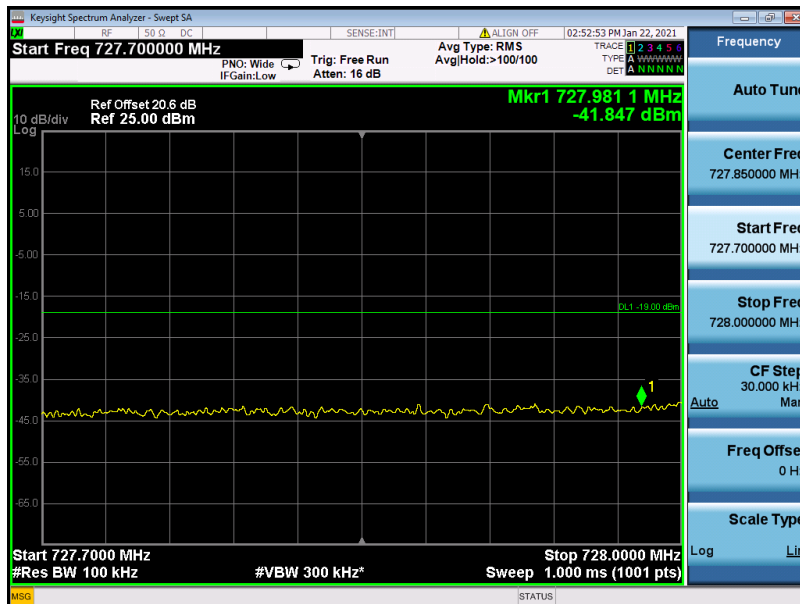
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DOWNLINK_4.1MHz AWGN signal type

700MHz (Lower 700MHz + Upper 700MHz) Band_Lower band edge_Pre-AGC



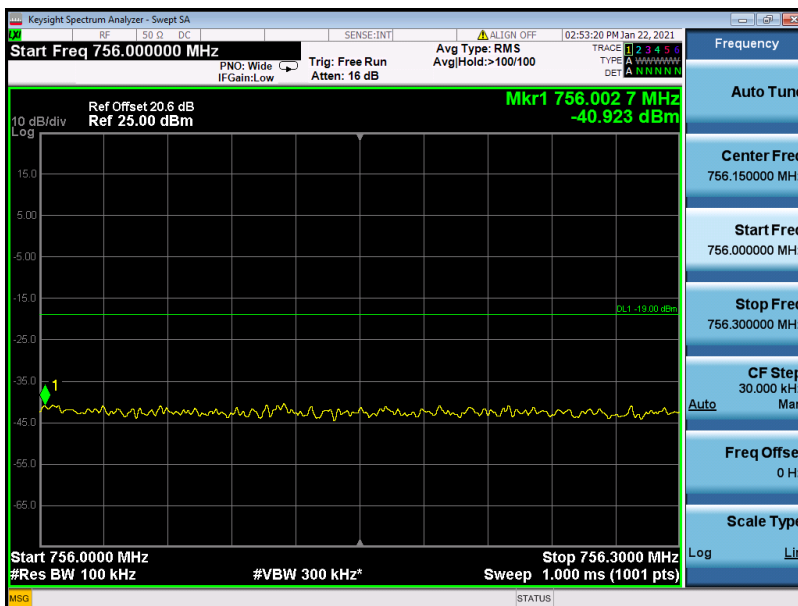
700MHz (Lower 700MHz + Upper 700MHz) Band_Lower band edge_AGC+10dB



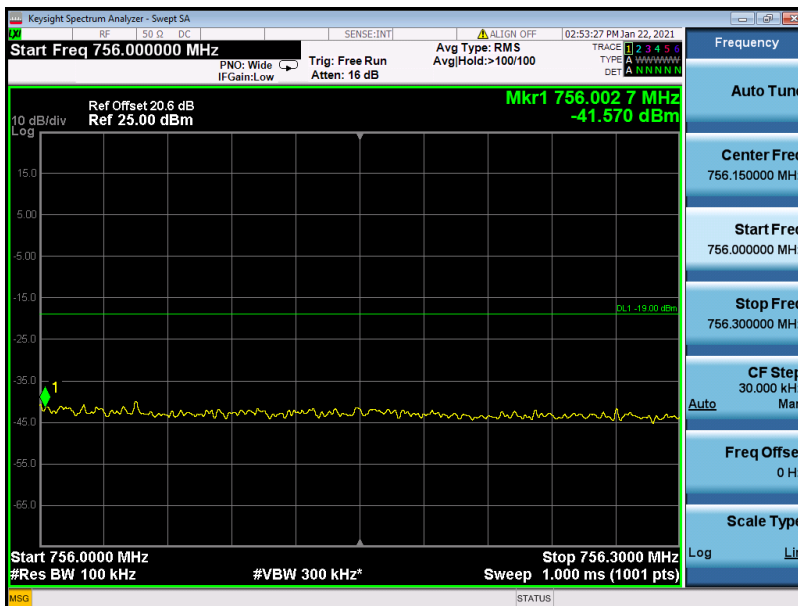
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700MHz (Lower 700MHz + Upper 700MHz) Band_Upper band edge_Pre-AGC



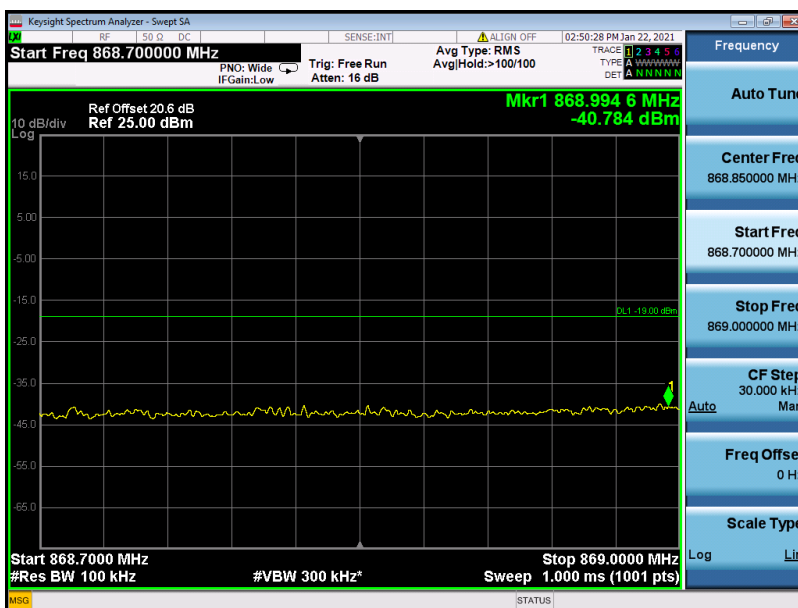
700MHz (Lower 700MHz + Upper 700MHz) Band_Upper band edge_AG+10dB



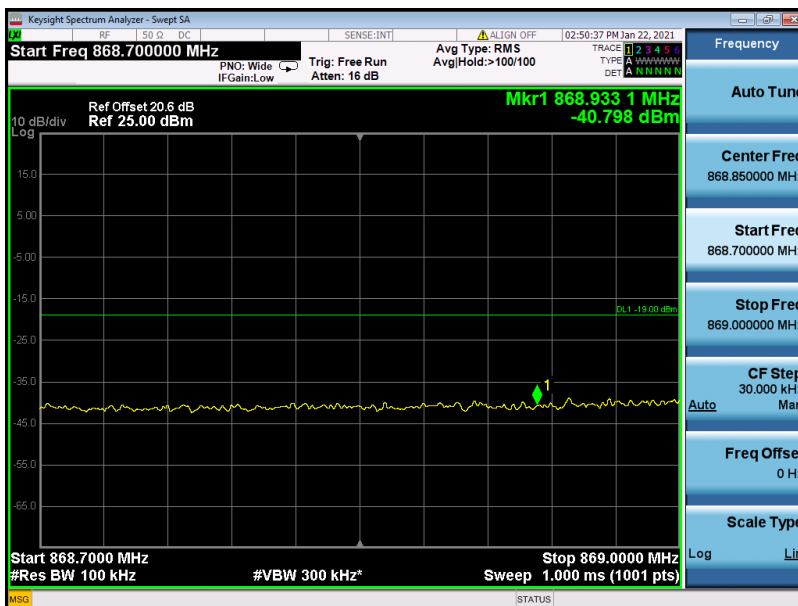
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Cellular Band_Lower band edge_Pre-AGC



Cellular Band_Lower band edge_AGC+10dB

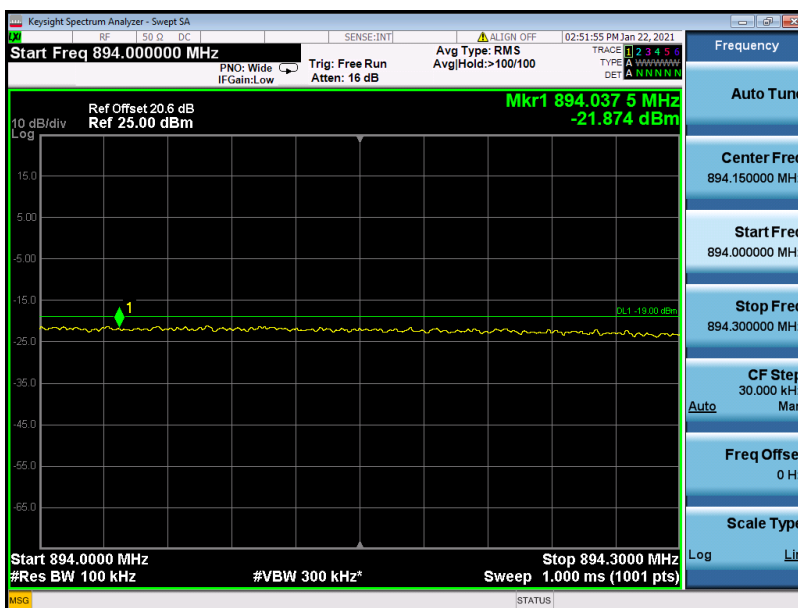


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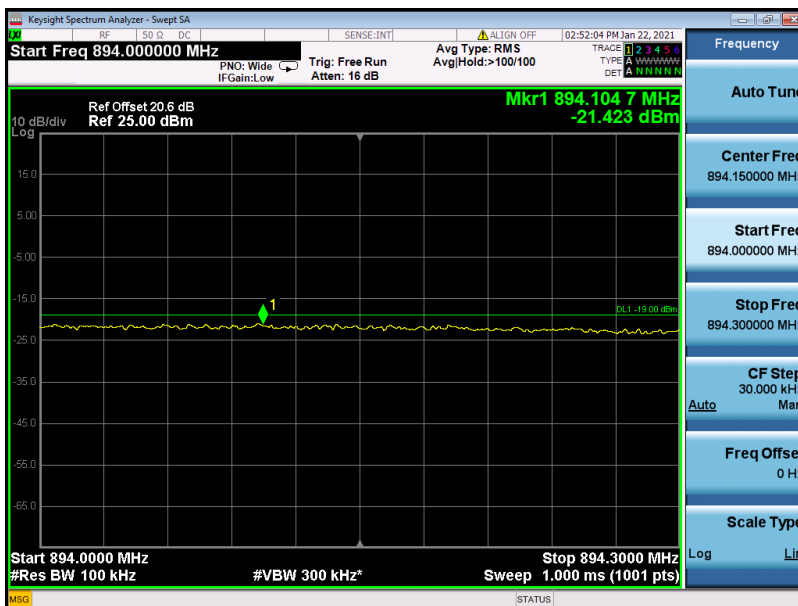
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Cellular Band_Upper band edge_AGC+10dB

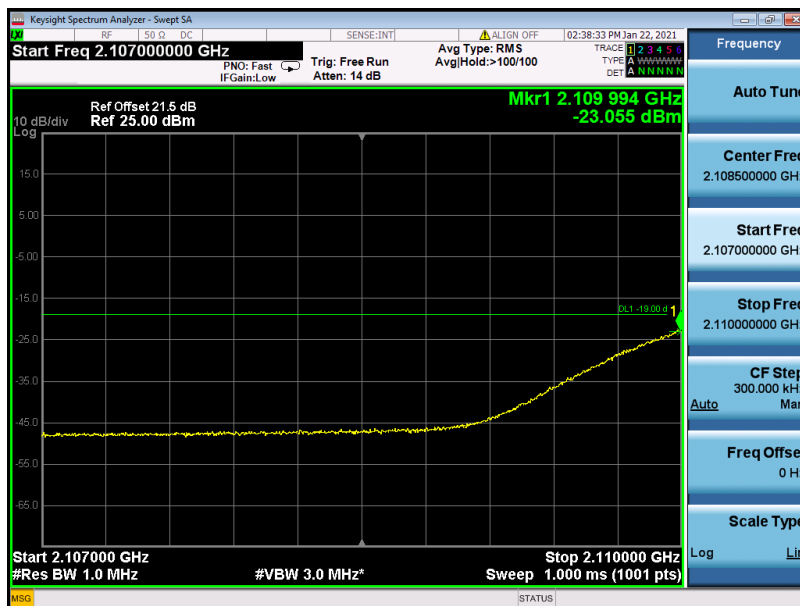


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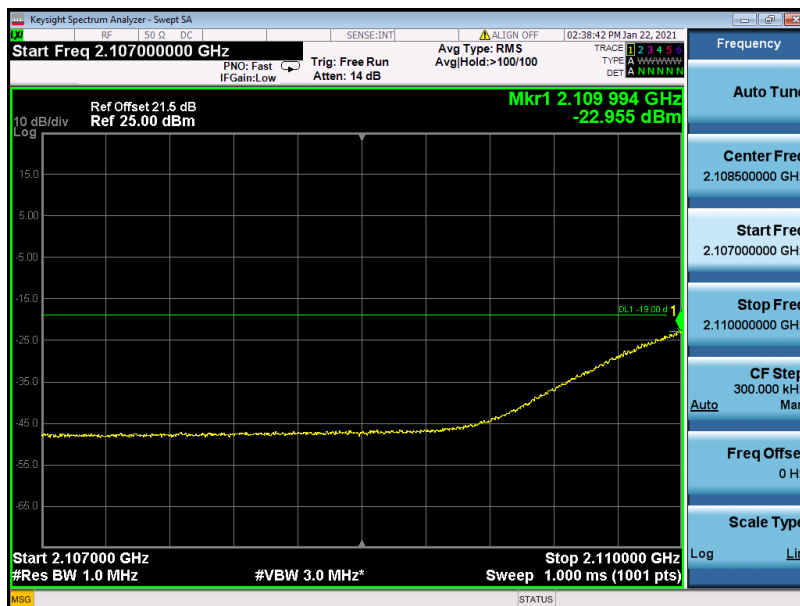
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AWS-1 Band_Lower band edge_Pre-AGC



AWS-1 Band_Lower band edge_AGC+10dB

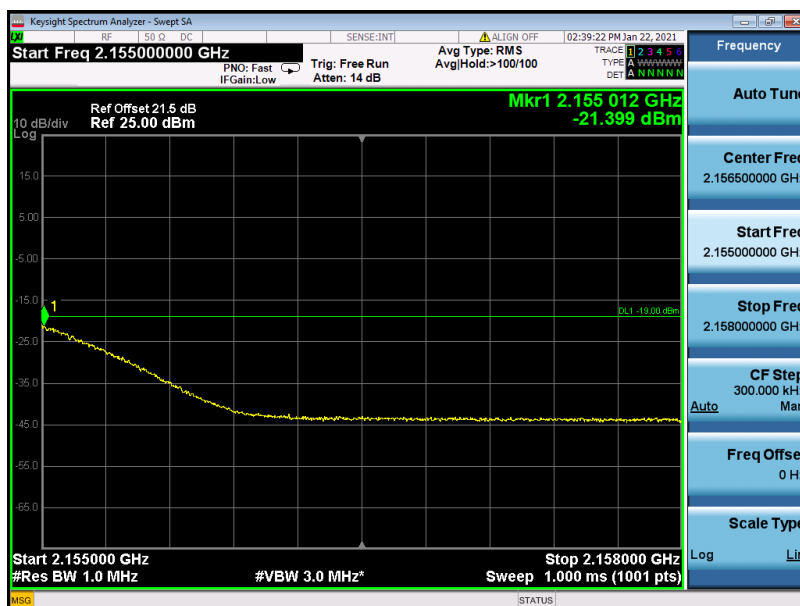


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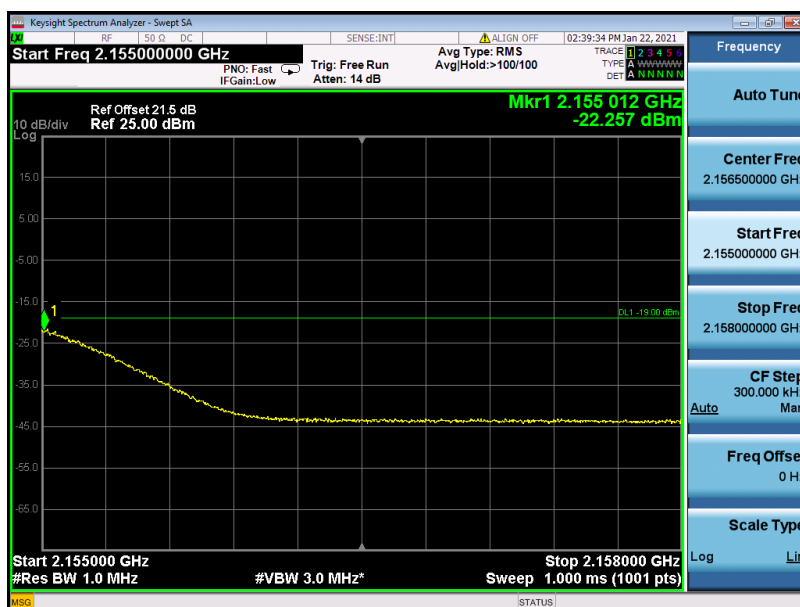
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AWS-1 Band_Upper band edge_Pre-AGC



AWS-1 Band_Upper band edge_AGC+10dB

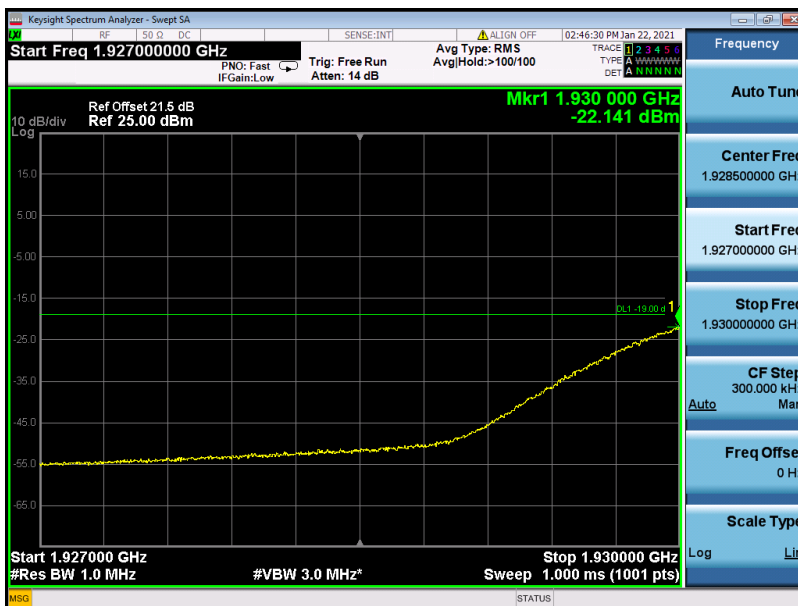


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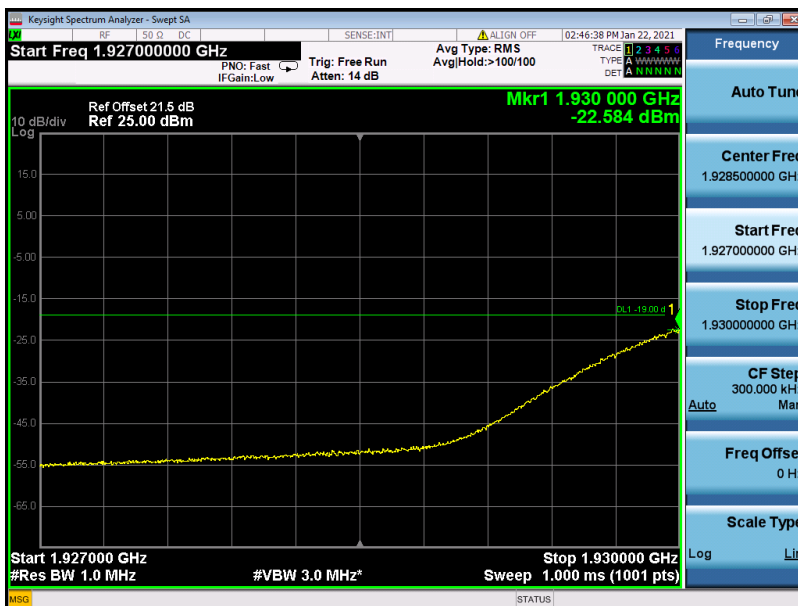
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Broadband PCS Band_Lower band edge_Pre-AGC



Broadband PCS Band_Lower band edge_AGC+10dB

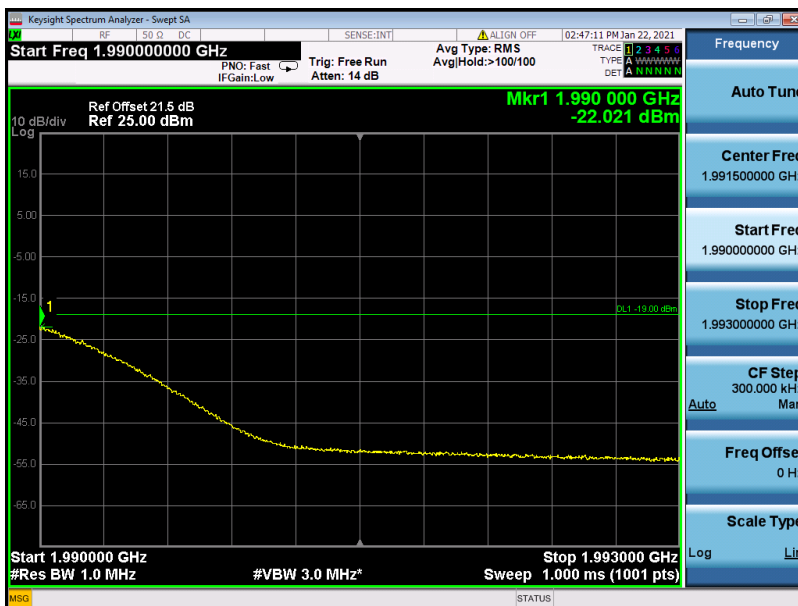


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Broadband PCS Band_Upper band edge_Pre-AGC



Broadband PCS Band_Upper band edge_AG+10dB



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6 Conducted spurious emissions

Note: 20.21(e)(8)(i)(E) *Out of Band Emission Limits:*

Booster out of band emissions (OOBE) shall be at least 6 dB below the FCC's mobile emission limits for the supported bands of operation.

27.53(c)

For operations in the 746-758 MHz band and the 776-788 MHz band, the power of any emission outside the licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, in accordance with the following:

(1) On any frequency outside the 746-758 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least $43 + 10 \log (P)$ dB.

So,

The limit = $\{P - [43 + 10 \log (P)]\} - 6\text{dB} = -19\text{dBm}$

(2) On any frequency outside the 776-788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least $43 + 10 \log (P)$ dB.

So,

The limit = $\{P - [43 + 10 \log (P)]\} - 6\text{dB} = -19\text{dBm}$

(3) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than $76 + 10 \log (P)$ dB in a 6.25 kHz band segment, for base and fixed stations.

So,

The limit = $\{P - [76 + 10 \log (P)]\} - 6\text{dB} = -52\text{dBm}$

27.53(g)

For operations in the 600 MHz band and the 698-746 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least $43 + 10 \log (P)$ dB.

So,

The limit = $\{P - [43 + 10 \log (P)]\} - 6\text{dB} = -19\text{dBm}$

27.53(h)

the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10} (P)$ dB.

So,

The limit = $\{P - [43 + 10 \log (P)]\} - 6\text{dB} = -19\text{dBm}$

22.917

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log (P)$ dB.

So,

The limit = $\{P - [43 + 10 \log (P)]\} - 6\text{dB} = -19\text{dBm}$



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24.238

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

So,

The limit = $\{P - [43 + 10 \log(P)]\} - 6\text{dB} = -19\text{dBm}$

2. EUT amplifies Lower 700MHz downlink (728-746MHz) and upper 700MHz downlink (746-756MHz) together, so combined frequency was measured for spurious emissions in this report, the center frequency is 742MHz.

Nonetheless, the emissions on all frequencies 763-775MHz and 793-805MHz only applies to the operations in the 746-758MHz band and 776-788MHz band, the test signal frequency was configured 751MHz (the center frequency of Upper 700MHz downlink).

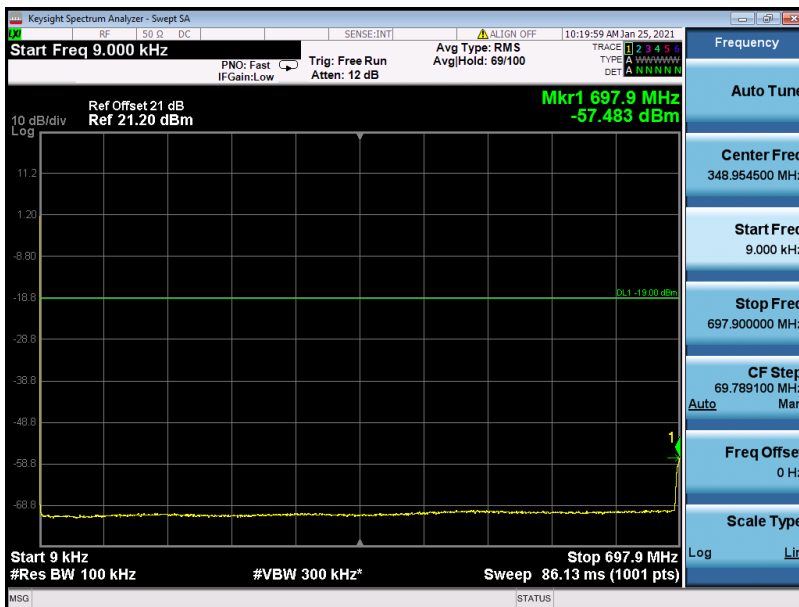


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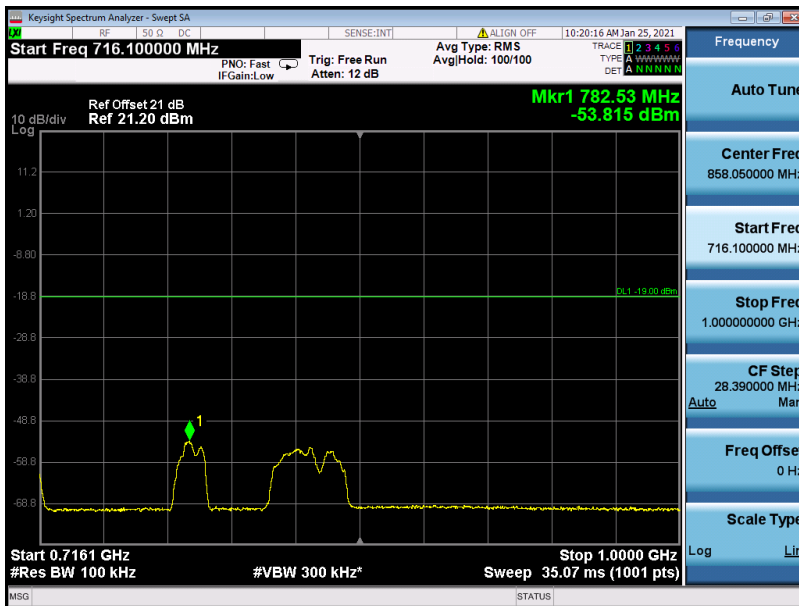
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UPLINK_4.1MHz AWGN signal type

Lower 700MHz Band



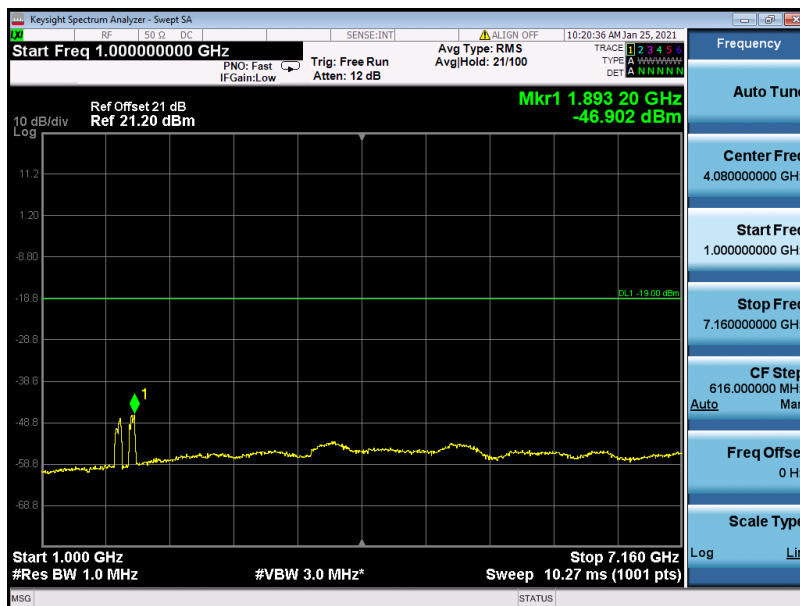
Lower 700MHz Band



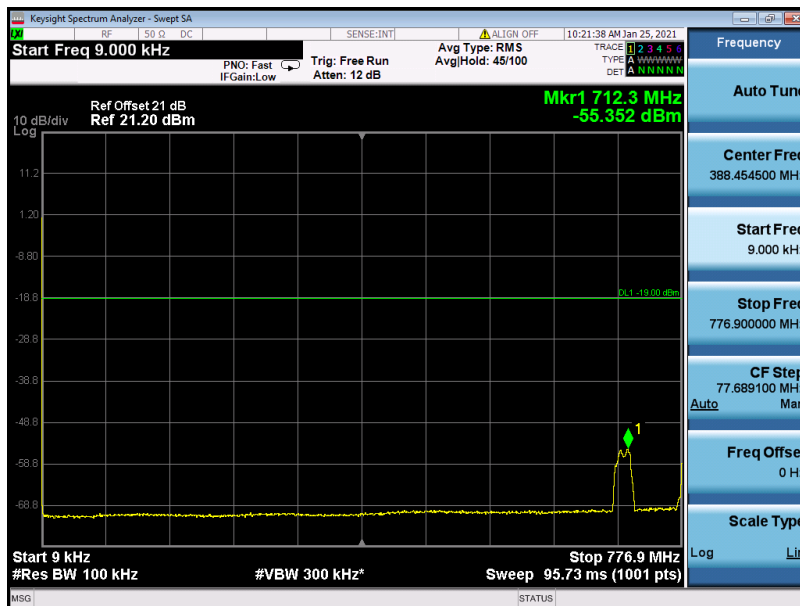
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Lower 700MHz Band



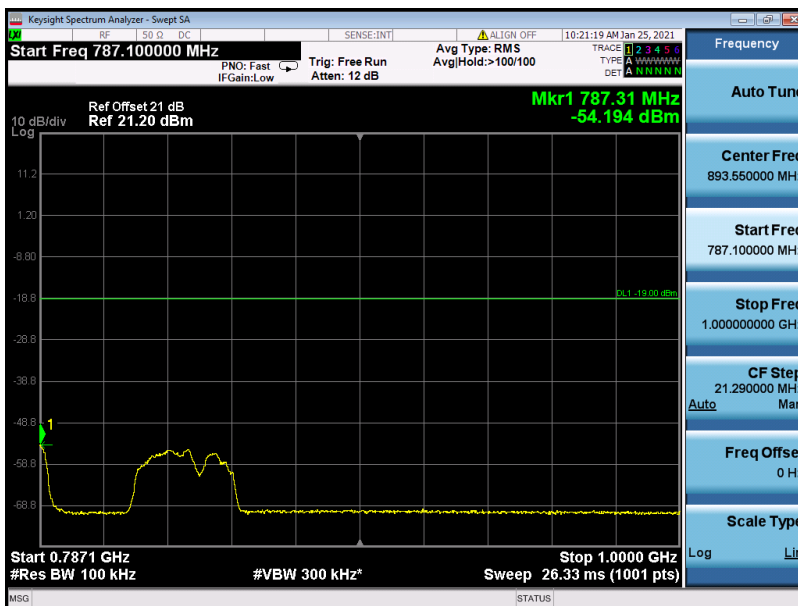
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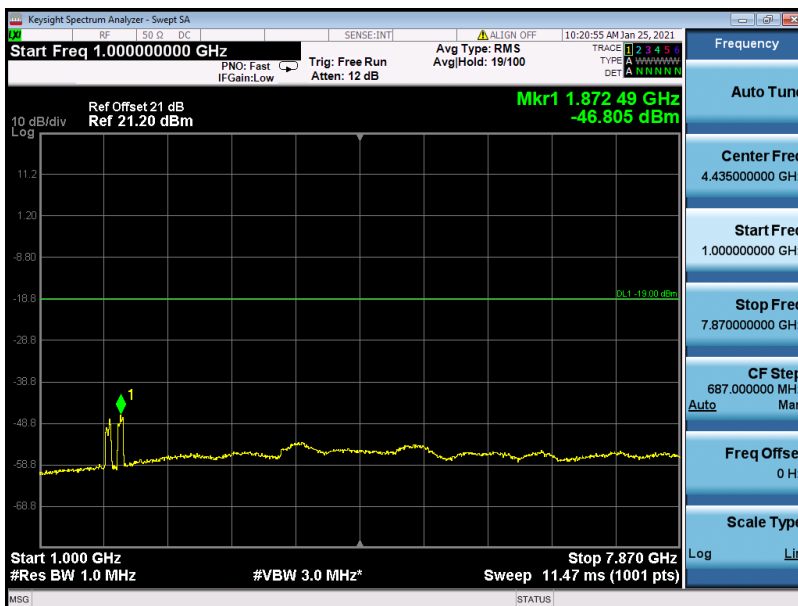
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Upper 700MHz Band



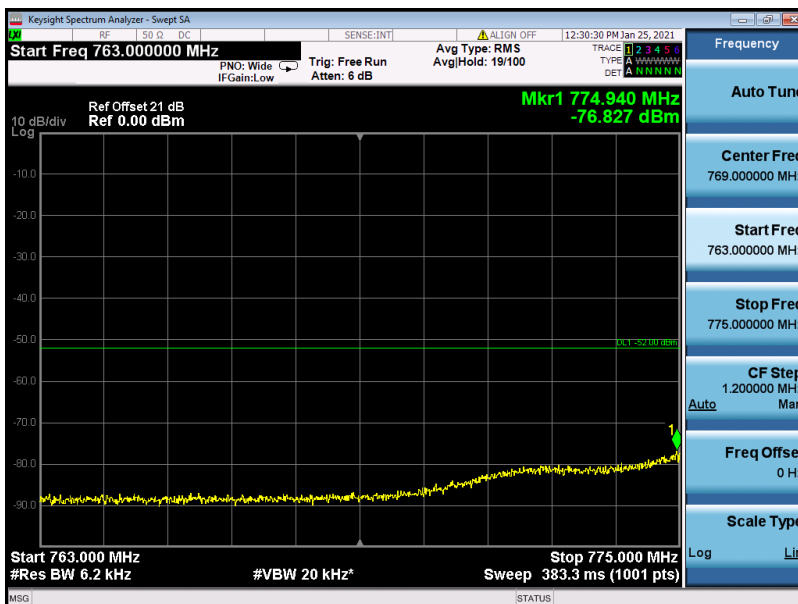
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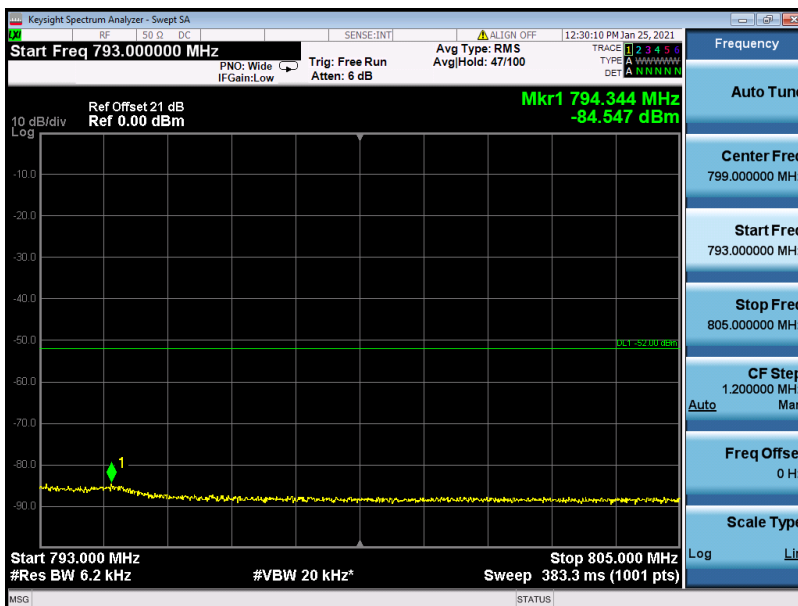
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Upper 700MHz Band



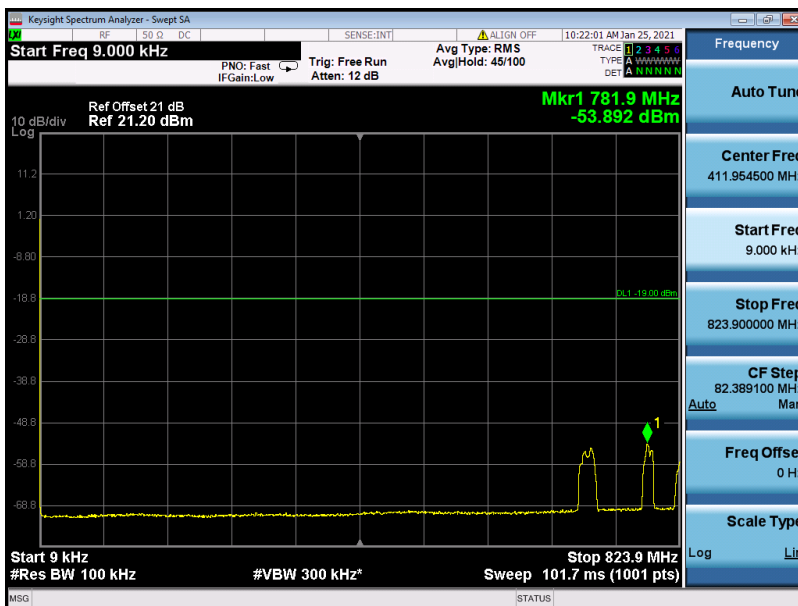
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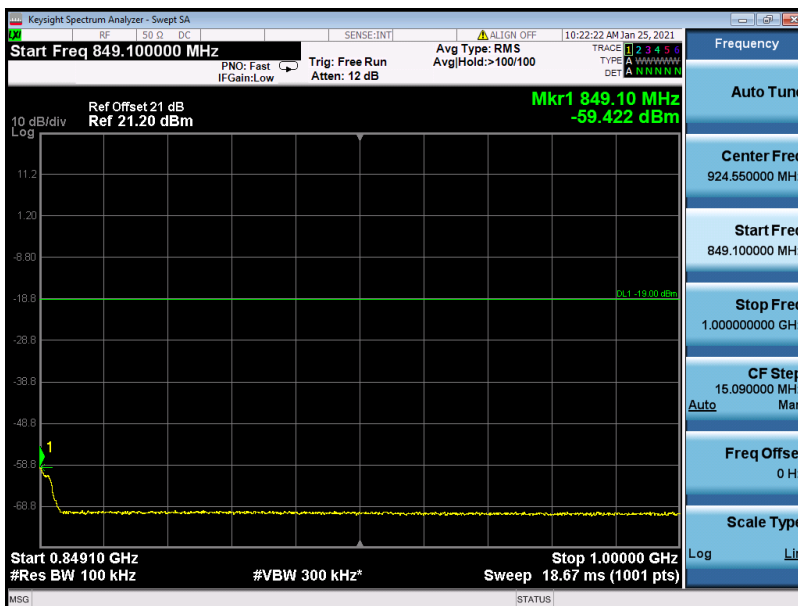
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Cellular Band



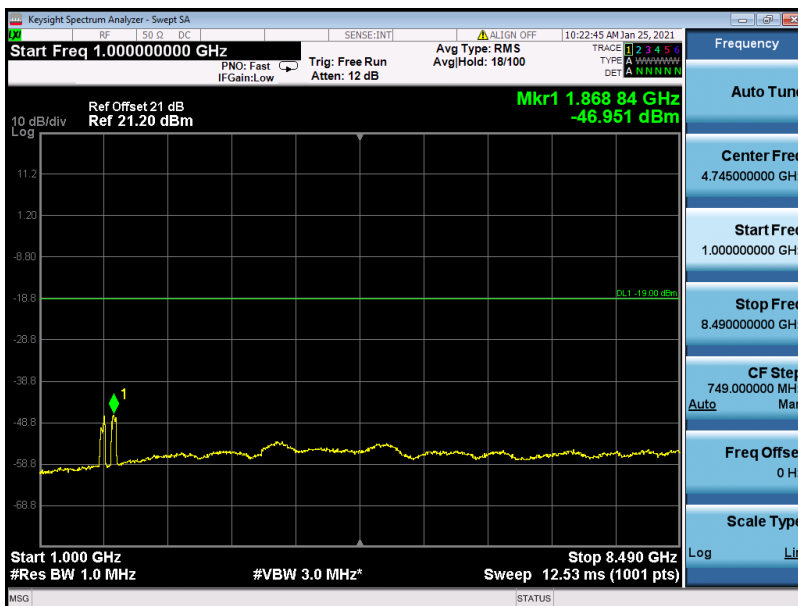
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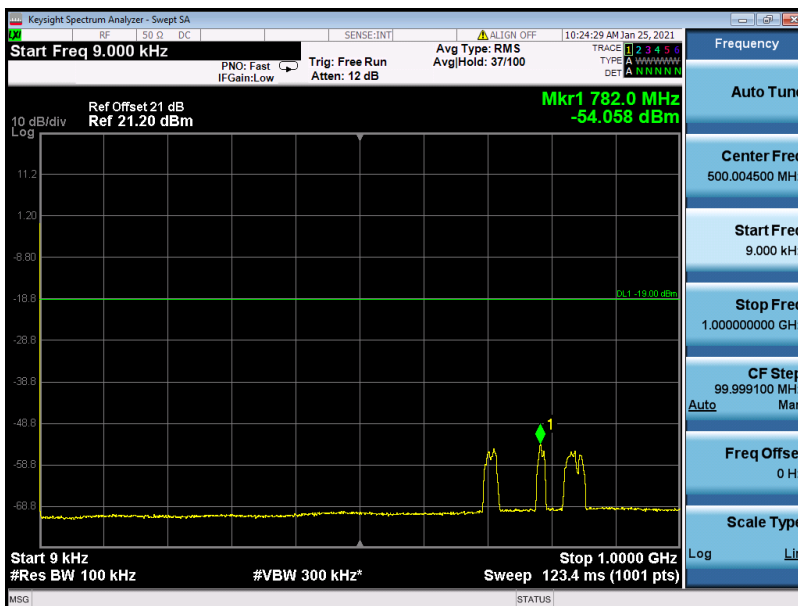
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Cellular Band



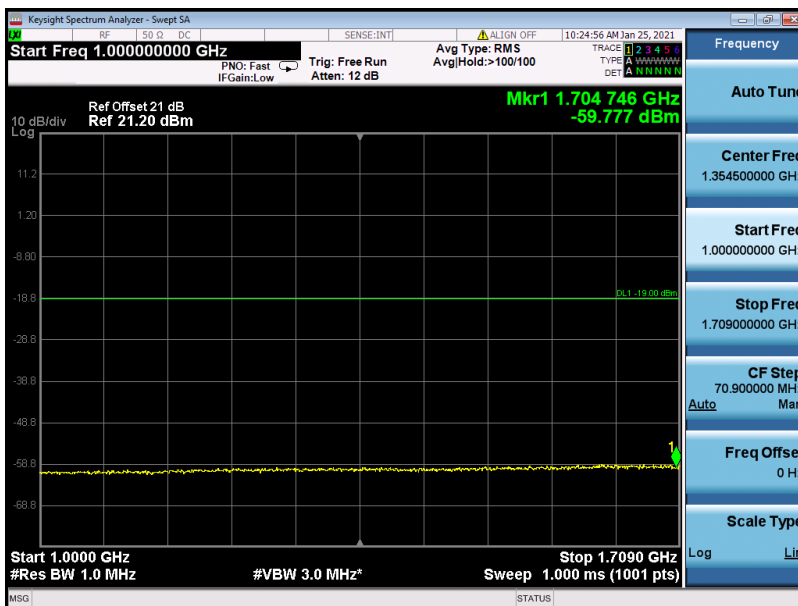
AWS-1 Band



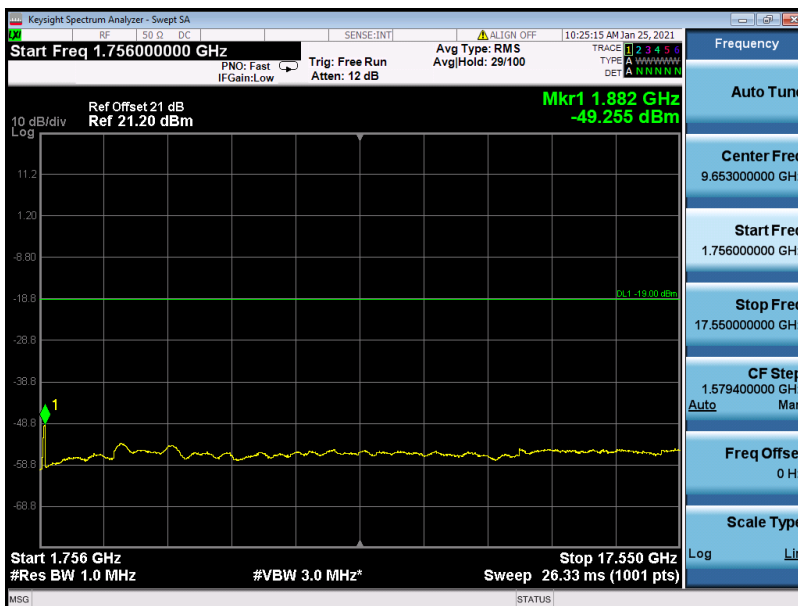
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AWS-1 Band



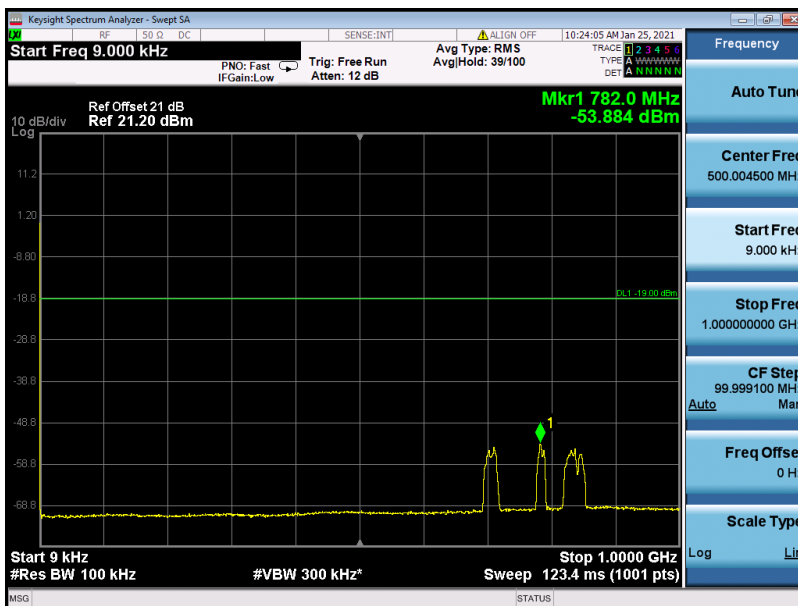
AWS-1 Band



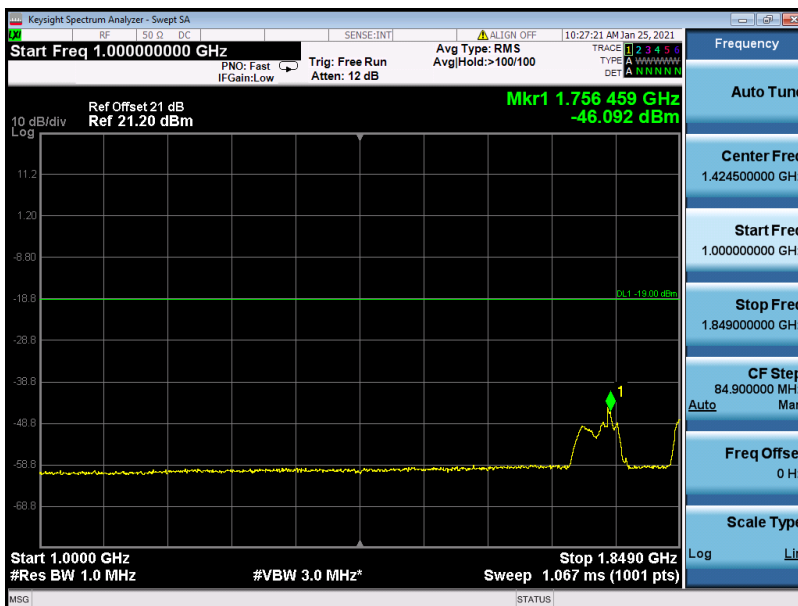
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Broadband PCS Band



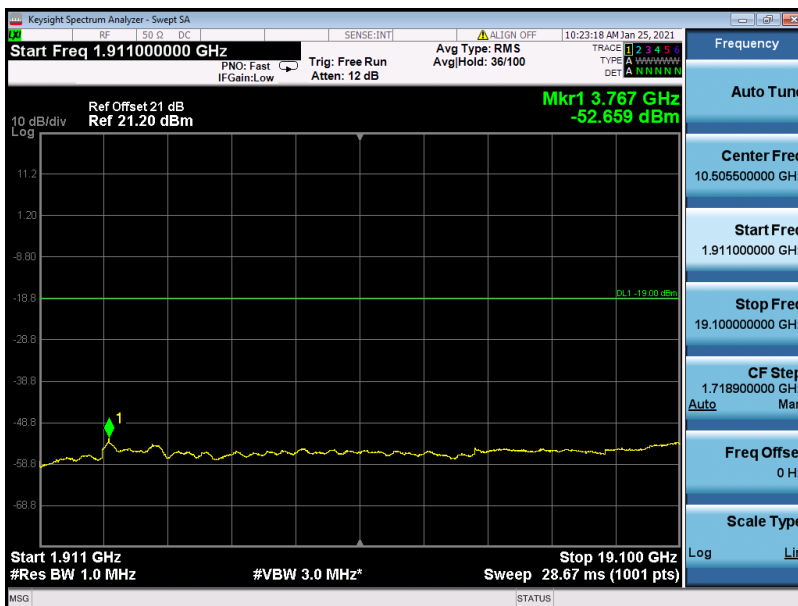
Broadband PCS Band



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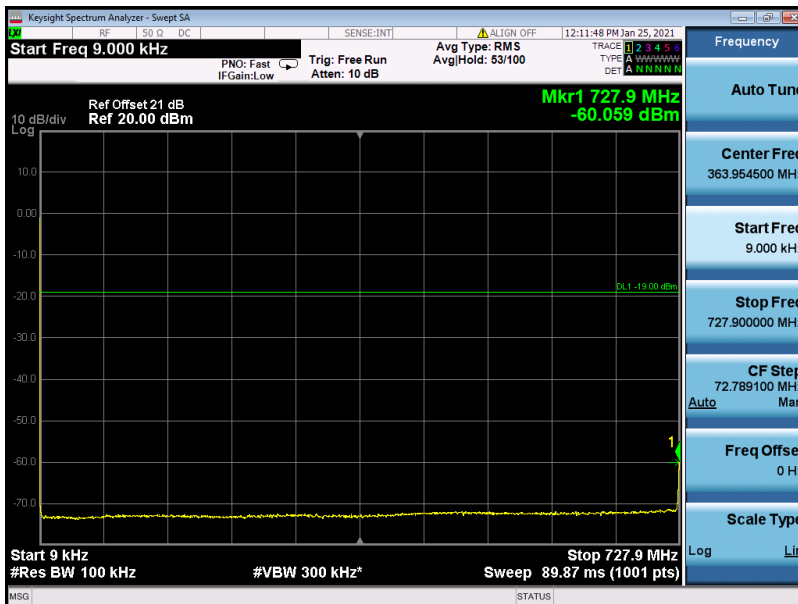
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Broadband PCS Band



DOWNLINK_4.1MHz AWGN signal type

700MHz (Lower 700MHz + Upper 700MHz) Band

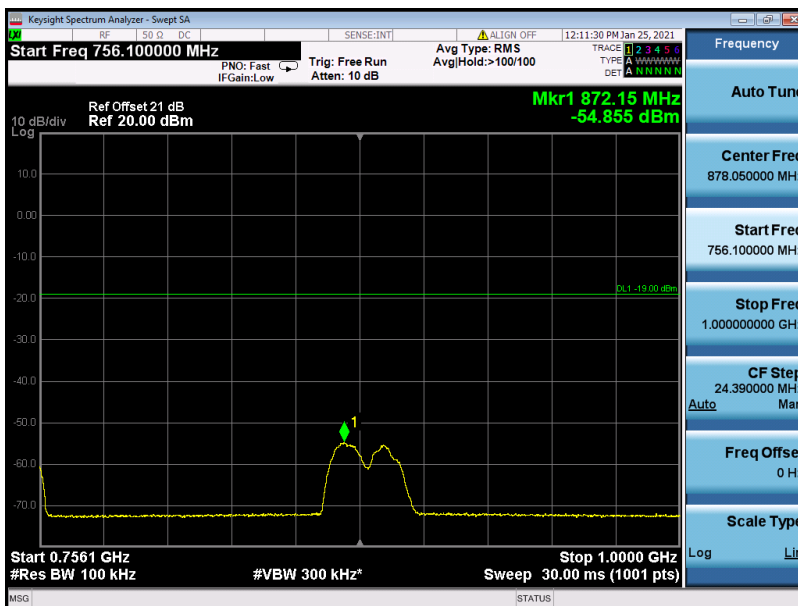


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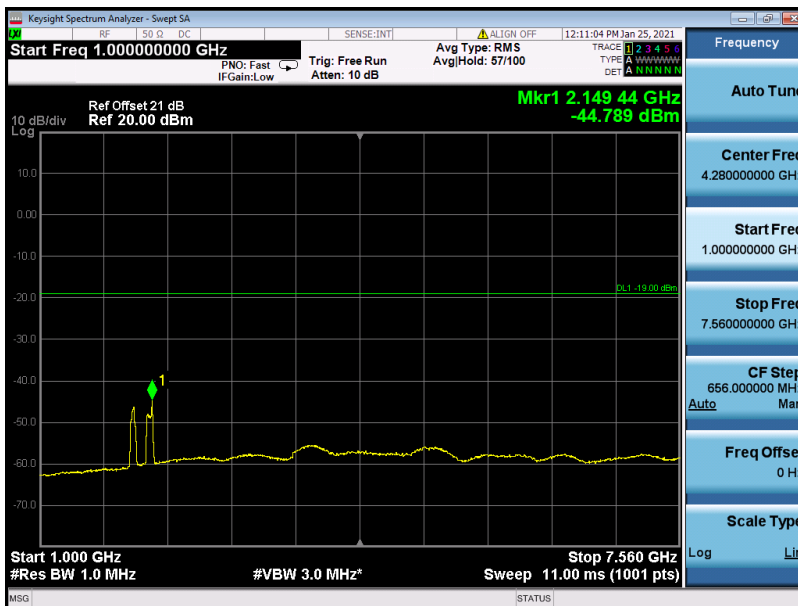
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700MHz (Lower 700MHz + Upper 700MHz) Band



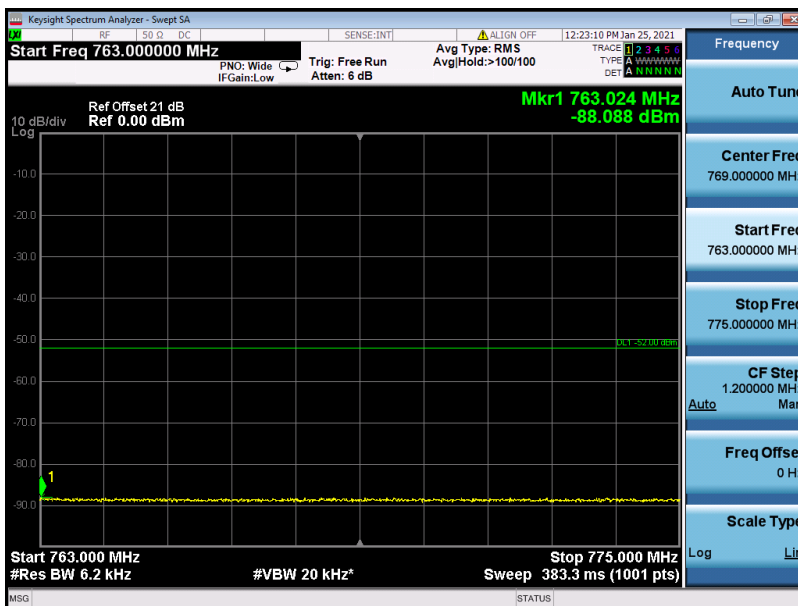
700MHz (Lower 700MHz + Upper 700MHz) Band



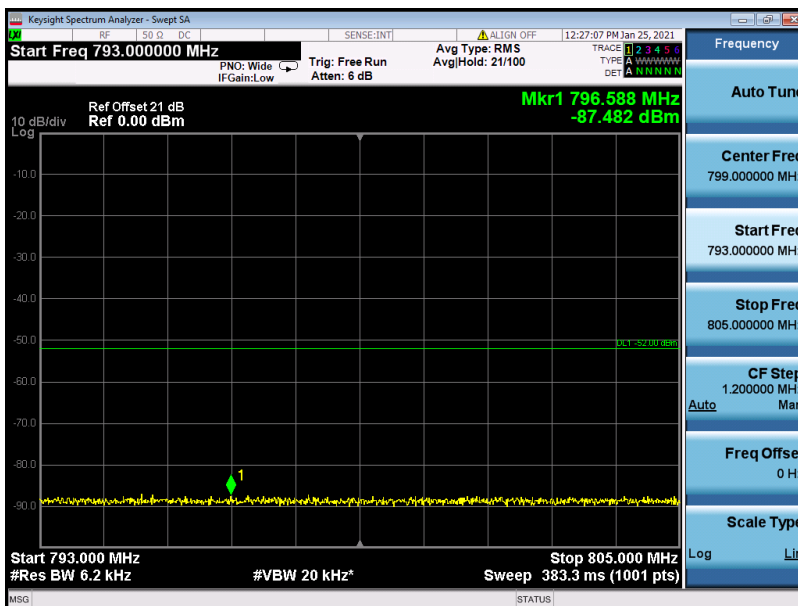
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Upper 700MHz Band



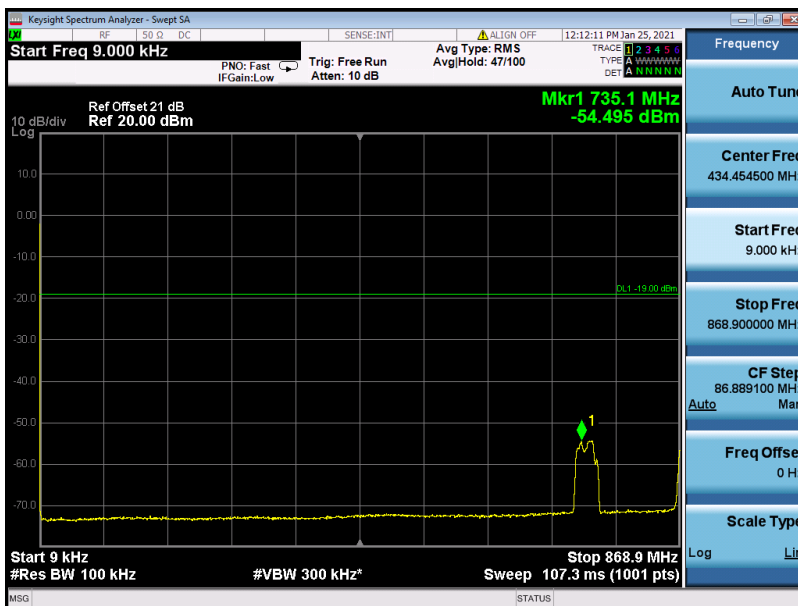
Upper 700MHz Band



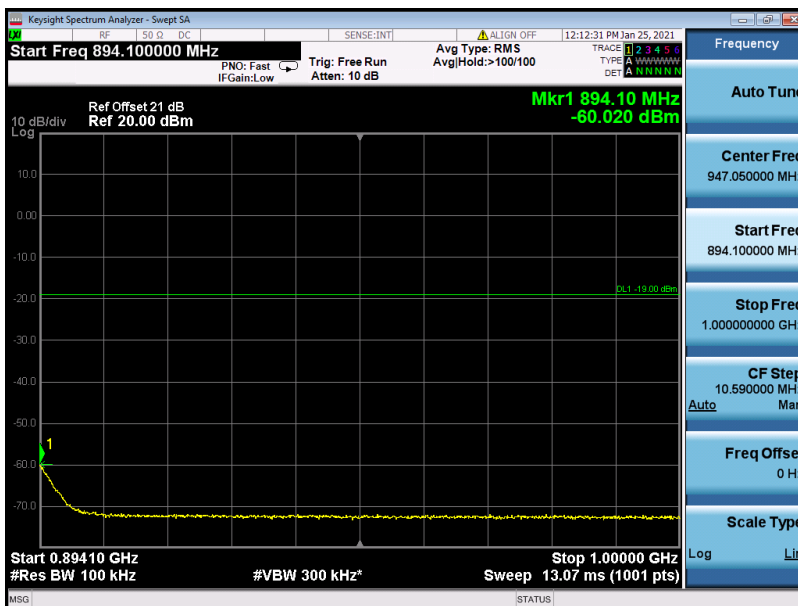
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Cellular Band



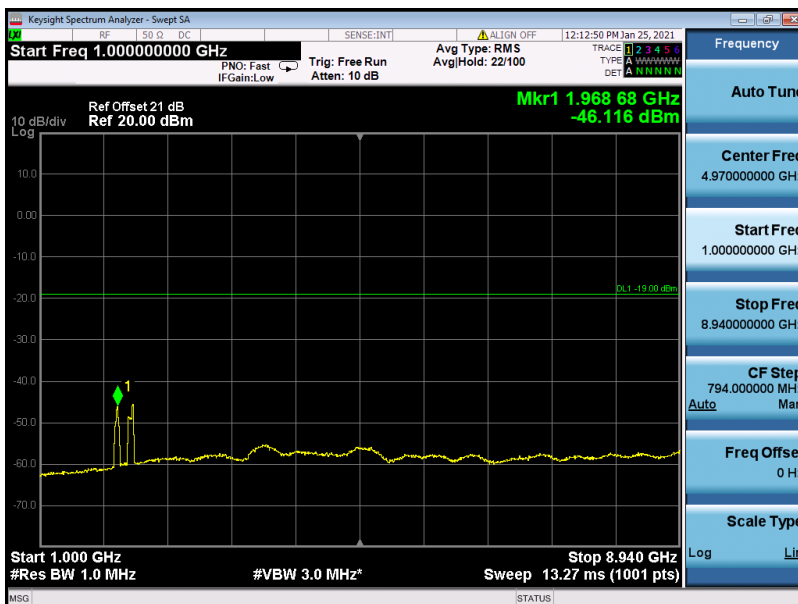
Cellular Band



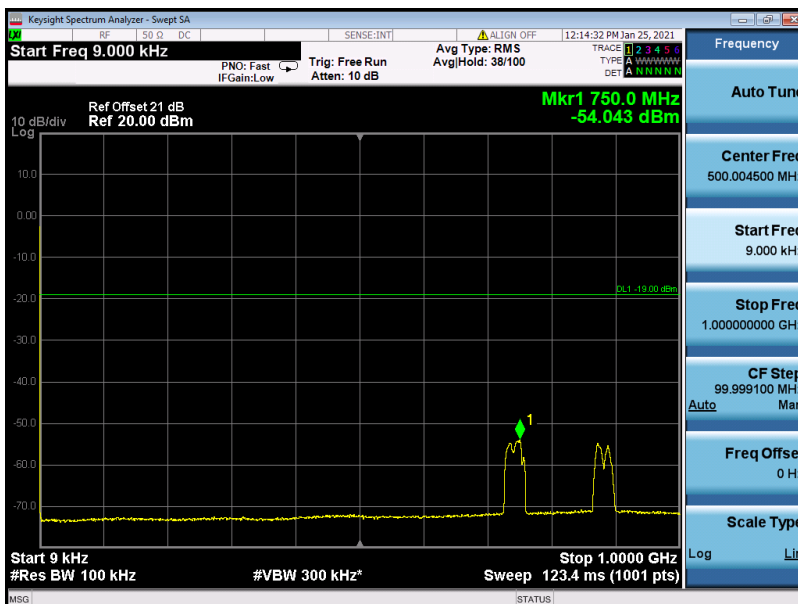
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Cellular Band



AWS-1 Band

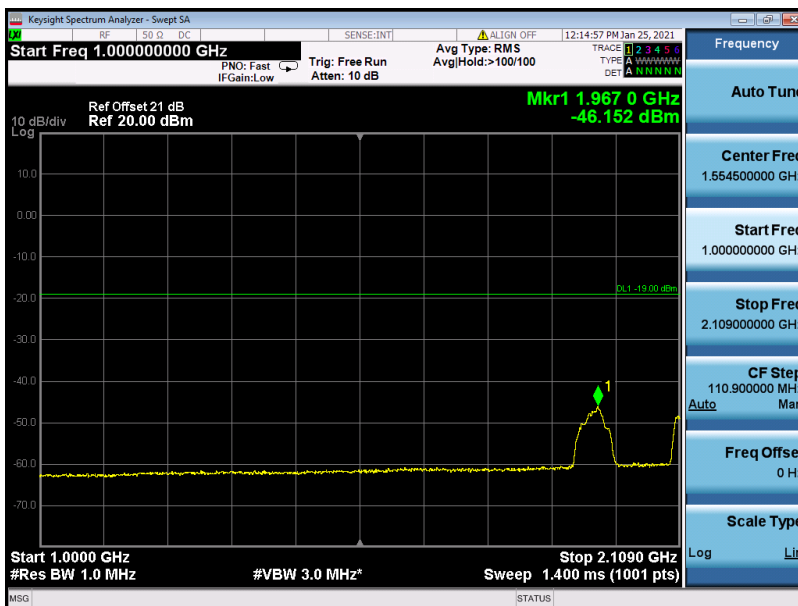


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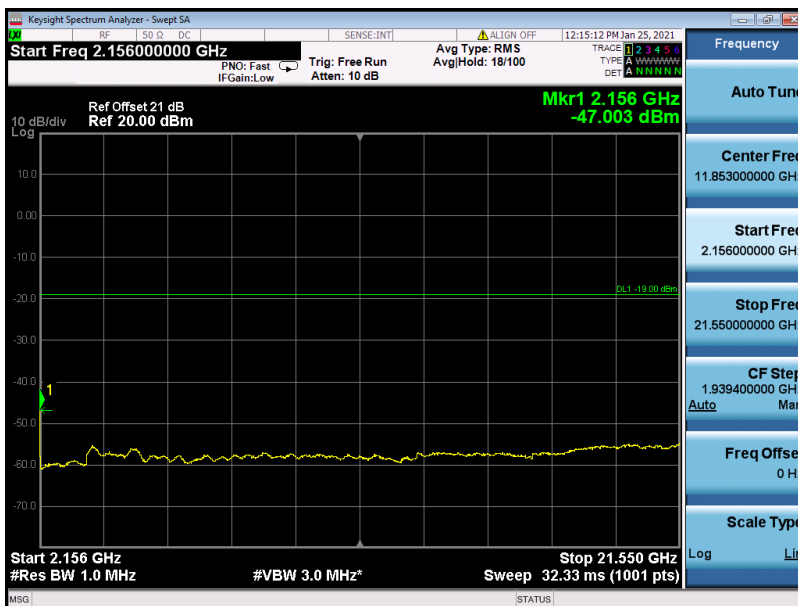
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AWS-1 Band



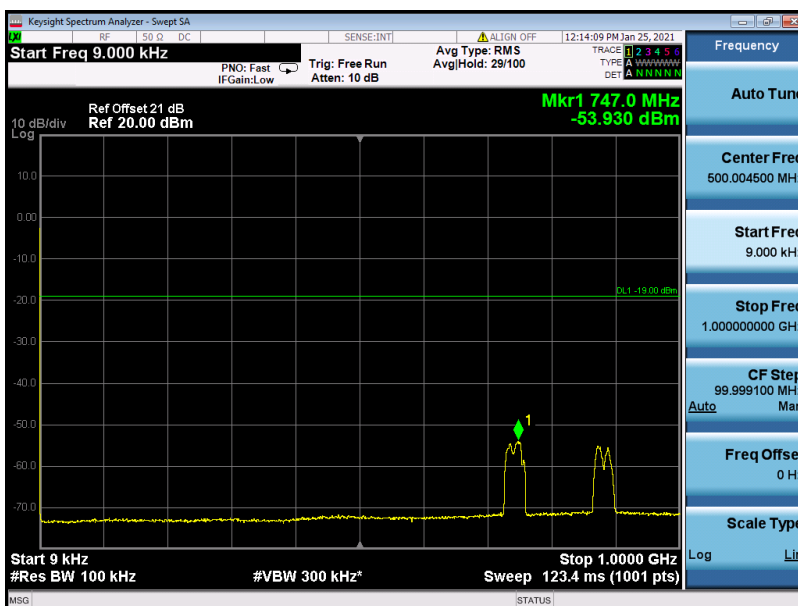
AWS-1 Band



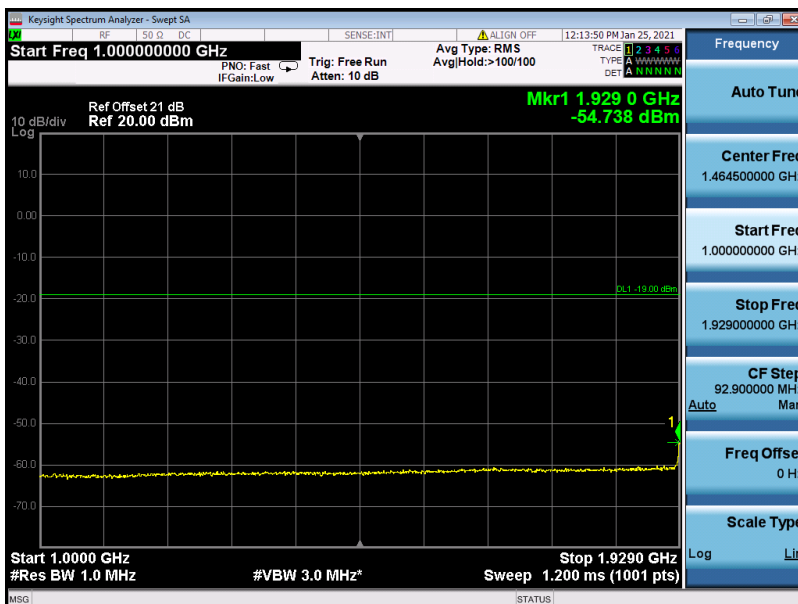
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Broadband PCS Band



Broadband PCS Band



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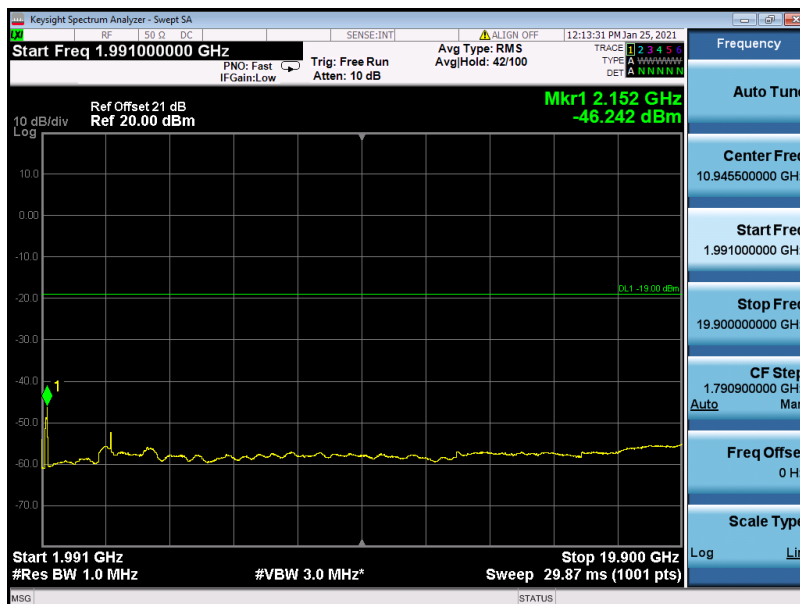
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Broadband PCS Band



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7 Noise limit

Note:

1. 20.21(e)(8)(i)(A) Noise Limit

(1) The transmitted noise power in dBm/MHz of consumer boosters at their uplink port shall not exceed $-103 \text{ dBm/MHz} - \text{RSSI}$.

RSSI (received signal strength indication expressed in negative dB units relative to 1 mW) is the downlink composite received signal power in dBm at the booster donor port for all base stations in the band of operation.

(2) The transmitted maximum noise power in dBm/MHz of consumer boosters at their uplink and downlink ports shall not exceed $-102.5 \text{ dBm/MHz} + 20 \text{ Log}_{10}(\text{Frequency})$, where Frequency is the uplink mid-band frequency of the supported spectrum bands in MHz.

So,

for Lower 700MHz, limit = $-102.5 \text{ dBm/MHz} + 20 \text{ Log}_{10}(707) = -45.51 \text{ dBm/MHz}$

for Upper 700MHz, limit = $-102.5 \text{ dBm/MHz} + 20 \text{ Log}_{10}(782) = -44.64 \text{ dBm/MHz}$

for Cellular, limit = $-102.5 \text{ dBm/MHz} + 20 \text{ Log}_{10}(836.5) = -44.05 \text{ dBm/MHz}$

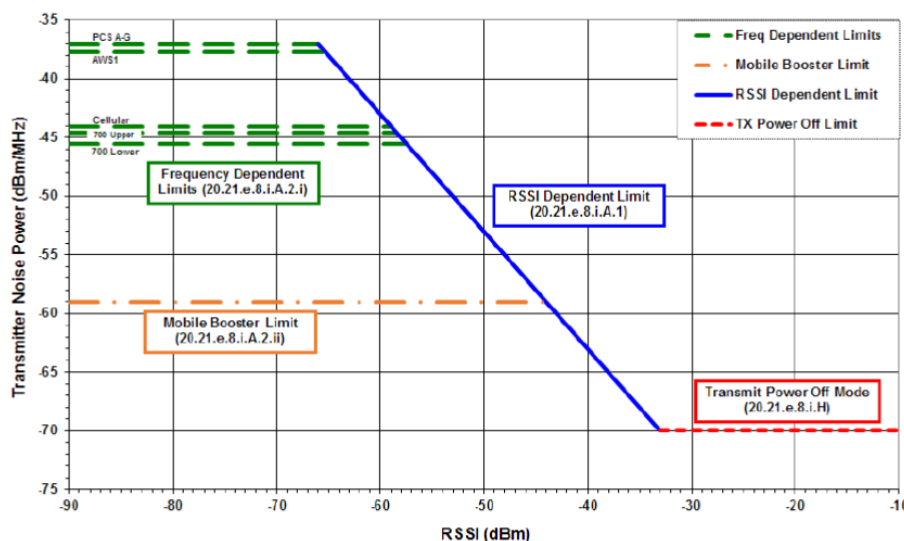
for AWS-1, limit = $-102.5 \text{ dBm/MHz} + 20 \text{ Log}_{10}(1732.5) = -37.02 \text{ dBm/MHz}$

for Broadband PCS, limit = $-102.5 \text{ dBm/MHz} + 20 \text{ Log}_{10}(1880) = -37.73 \text{ dBm/MHz}$

20.21(e)(8)(i)(H) Transmit Power Off Mode

When the consumer booster cannot otherwise meet the noise and gain limits defined herein it must operate in "Transmit Power Off Mode." In this mode of operation, the uplink and downlink noise power shall not exceed -70 dBm/MHz .

2. According to KDB 935210 D03 v04r04 appendix D, the variable noise limit is $-103 \text{ dBm/MHz} - \text{RSSI}$ inside the RSSI-dependent region, and $-102.5 \text{ dBm/MHz} + 20 \text{ Log}_{10}(\text{Frequency})$ outside the RSSI-dependent region (-70 dBm when operating power off mode).



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So,

for Lower 700MHz, the RSSI-dependent region is -57.49 dBm to -33 dBm

for Upper 700MHz, the RSSI-dependent region is -58.36 dBm to -33 dBm

for Cellular, the RSSI-dependent region is -58.95 dBm to -33 dBm

for AWS-1, the RSSI-dependent region is -65.27 dBm to -33 dBm

for Broadband PCS, the RSSI-dependent region is -65.99 dBm to -33 dBm

3. EUT amplifies Lower 700MHz downlink (728-746MHz) and upper 700MHz downlink (746-756MHz) together, so combined frequency was measured for noise limit in this report, the center frequency is 742MHz.



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Maximum transmitter Noise Power Level					
Path	Band	Mode	Noise Level (dBm/MHz)	Limit (dBm/MHz)	Verdict
UPLINK	Lower 700MHz	Power On	-47.38	≤-45.51	PASS
		Power Off	-82.20	≤-70	PASS
	Upper 700MHz	Power On	-46.26	≤-44.64	PASS
		Power Off	-82.23	≤-70	PASS
	Cellular	Power On	-46.18	≤-44.05	PASS
		Power Off	-82.28	≤-70	PASS
	AWS-1	Power On	-46.23	≤-37.73	PASS
		Power Off	-81.54	≤-70	PASS
	Broadband PCS	Power On	-46.67	≤-37.02	PASS
		Power Off	-80.72	≤-70	PASS
DOWNLINK	700MHz	Power On	-46.71	≤-45.51	PASS
		Power Off	-82.19	≤-70	PASS
	Cellular	Power On	-45.62	≤-44.05	PASS
		Power Off	-82.38	≤-70	PASS
	AWS-1	Power On	-46.23	≤-37.73	PASS
		Power Off	-80.23	≤-70	PASS
	Broadband PCS	Power On	-45.82	≤-37.02	PASS
		Power Off	-80.41	≤-70	PASS



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Variable Uplink Noise Power Level					
Path	Band	RSSI (dBm)	Noise Level (dBm/MHz)	Limit (dBm/MHz)	Verdict
UPLINK	Lower 700MHz	-90	-47.41	≤-45.51	PASS
		-80	-47.67	≤-45.51	PASS
		-70	-48.32	≤-45.51	PASS
		-60	-48.74	≤-45.51	PASS
		-55	-49.32	≤-48.00	PASS
		-42	-63.21	≤-61.00	PASS
	Upper 700MHz	-90	-46.43	≤-44.64	PASS
		-80	-46.67	≤-44.64	PASS
		-70	-45.89	≤-44.64	PASS
		-60	-46.22	≤-44.64	PASS
		-51	-56.74	≤-52.00	PASS
		-46	-61.20	≤-57.00	PASS
	Cellular	-90	-46.32	≤-44.05	PASS
		-80	-46.11	≤-44.05	PASS
		-70	-47.32	≤-44.05	PASS
		-60	-46.43	≤-44.05	PASS
		-55	-51.04	≤-48.00	PASS
		-46	-59.76	≤-57.00	PASS
	AWS-1	-80	-46.76	≤-37.73	PASS
		-70	-46.28	≤-37.73	PASS
		-62	-49.32	≤-41.00	PASS
		-60	-48.45	≤-43.00	PASS
		-41	-64.27	≤-62.00	PASS
		-38	-68.43	≤-65.00	PASS



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UPLINK	Broadband PCS	-90	-46.76	≤ -37.02	PASS
		-80	-46.31	≤ -37.02	PASS
		-70	-47.32	≤ -37.02	PASS
		-64	-49.54	≤ -39.00	PASS
		-57	-52.32	≤ -46.00	PASS
		-42	-62.78	≤ -61.00	PASS



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Variable Uplink Noise Timing				
Path	Band	Time (s)	Limit (s)	Verdict
UPLINK	Lower 700MHz	0.27	≤3	PASS
	Upper 700MHz	0.26	≤3	PASS
	Cellular	0.52	≤3	PASS
	AWS-1	0.65	≤3	PASS
	Broadband PCS	0.65	≤3	PASS



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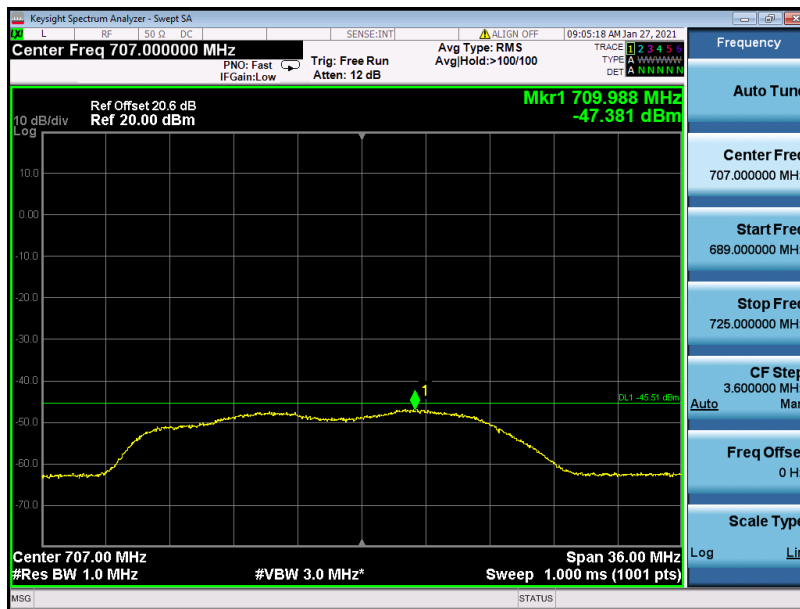
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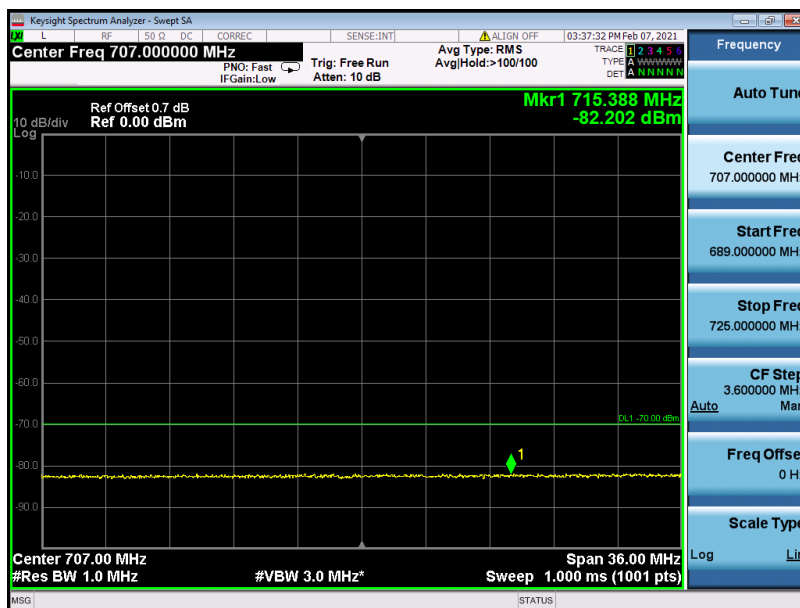
Maximum Transmitter Noise Power Level

UPLINK

Lower 700MHz Band



Transmit Power On Mode ↑



Transmit Power Off Mode ↑



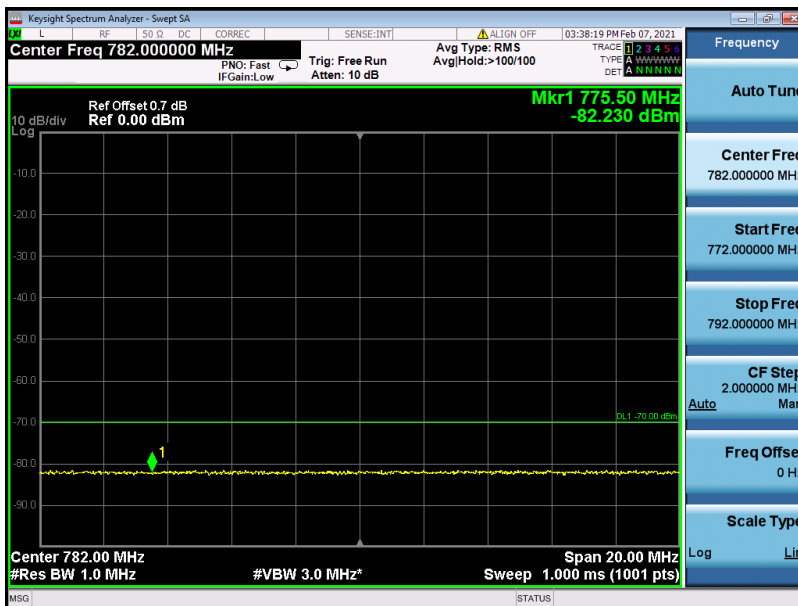
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Upper 700MHz Band



Transmit Power On Mode ↑



Transmit Power Off Mode ↑

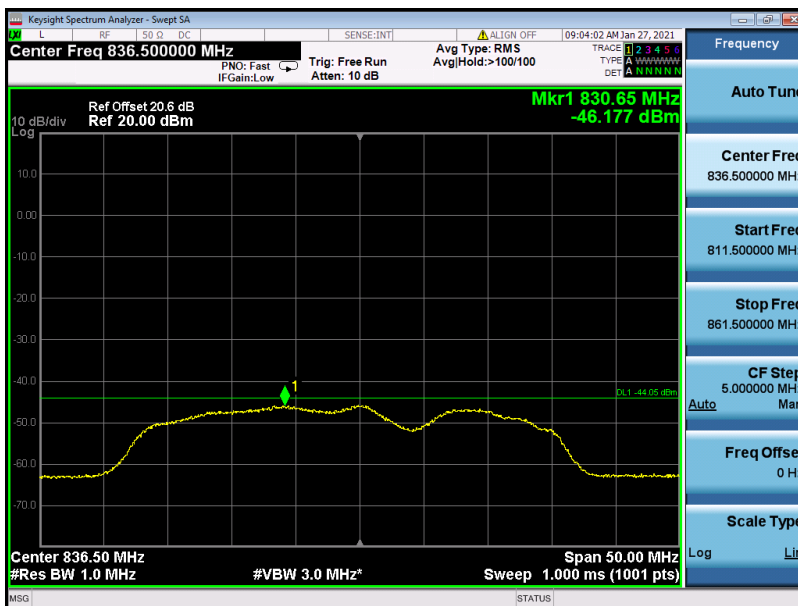


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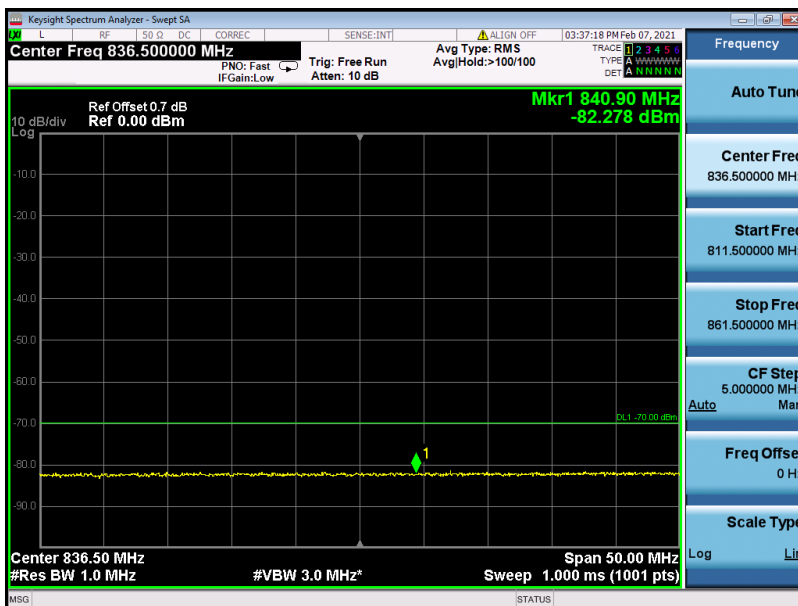
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Cellular Band



Transmit Power On Mode ↑



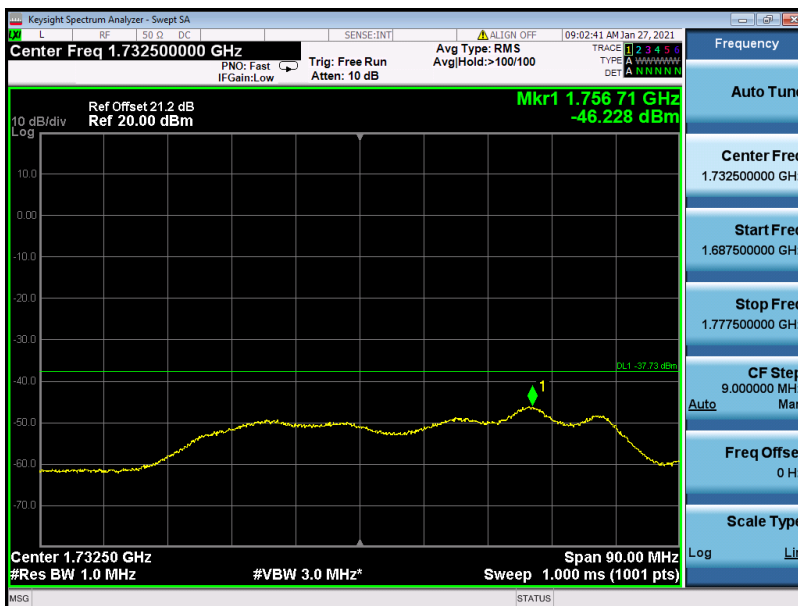
Transmit Power Off Mode ↑



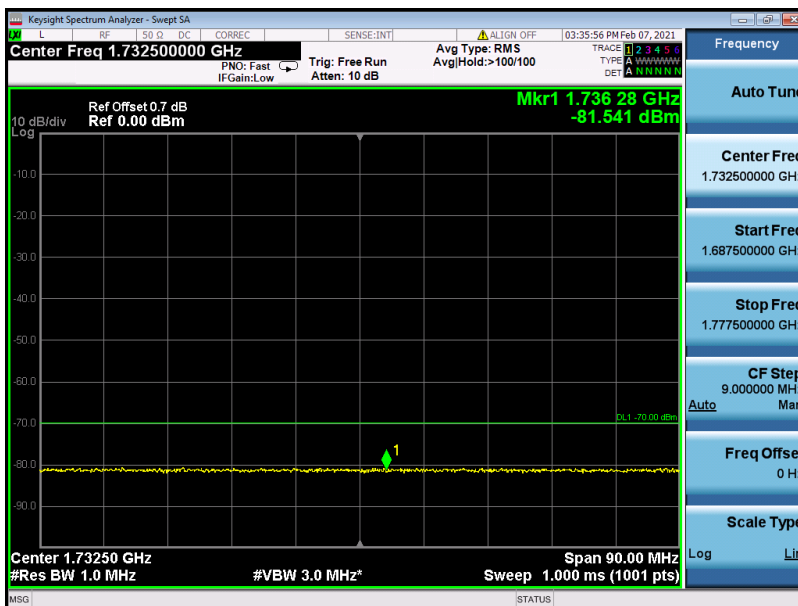
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AWS-1 Band



Transmit Power On Mode ↑



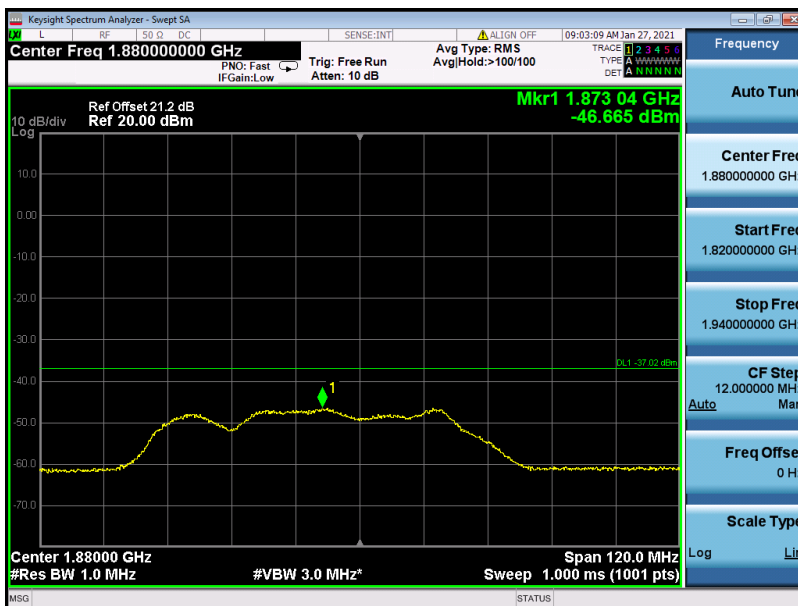
Transmit Power Off Mode ↑



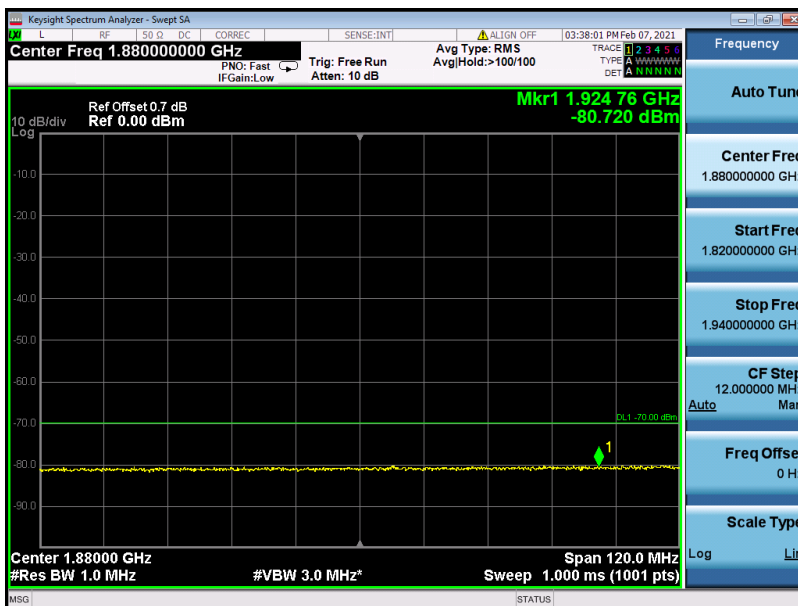
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Broadband PCS Band



Transmit Power On Mode ↑



Transmit Power Off Mode ↑



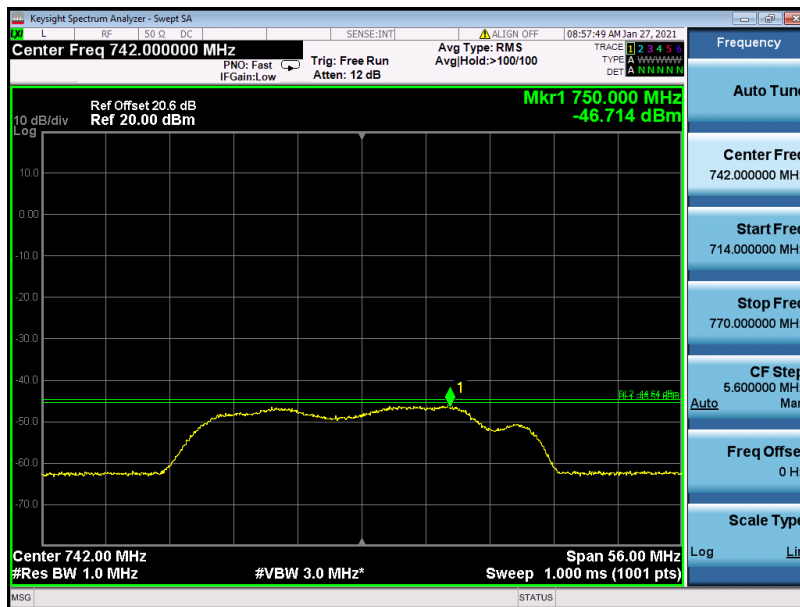
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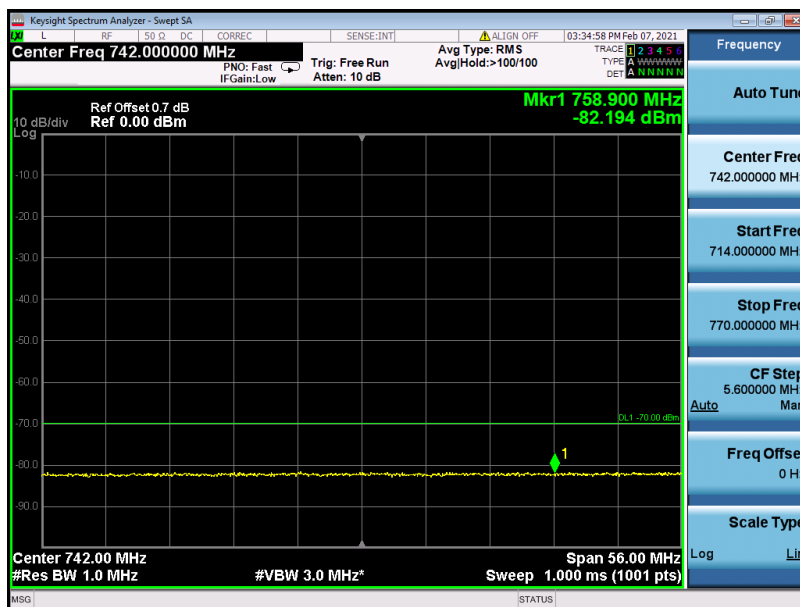
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DOWNLINK

700MHz (Lower 700MHz + Upper 700MHz) Band



Transmit Power On Mode ↑



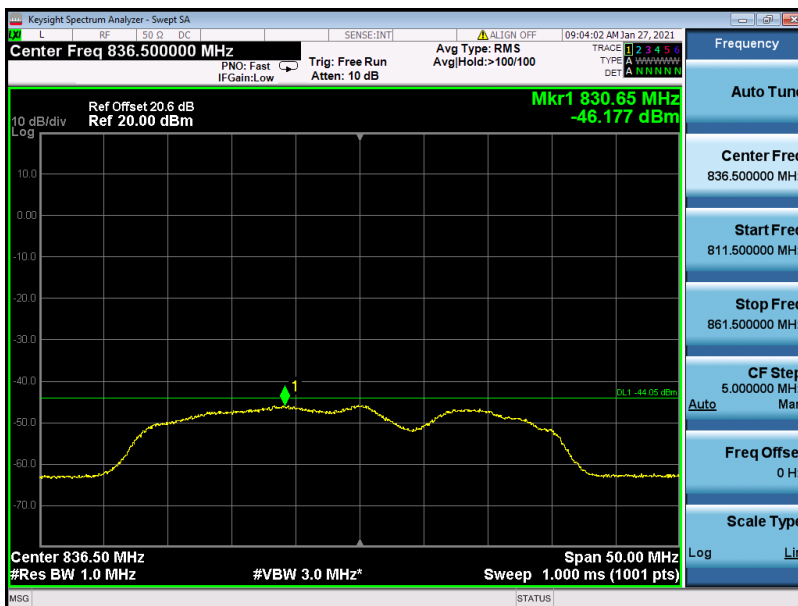
Transmit Power Off Mode ↑



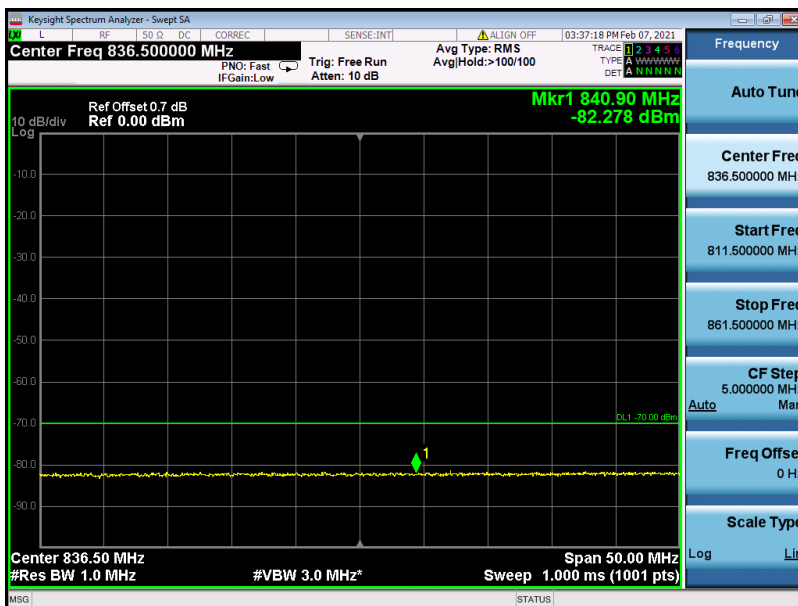
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Cellular Band



Transmit Power On Mode ↑



Transmit Power Off Mode ↑



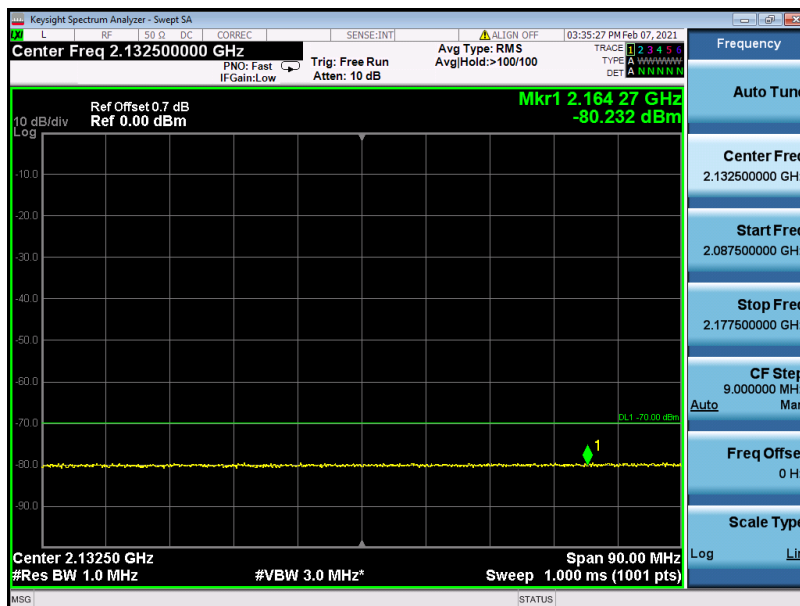
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AWS-1 Band



Transmit Power On Mode ↑



Transmit Power Off Mode ↑

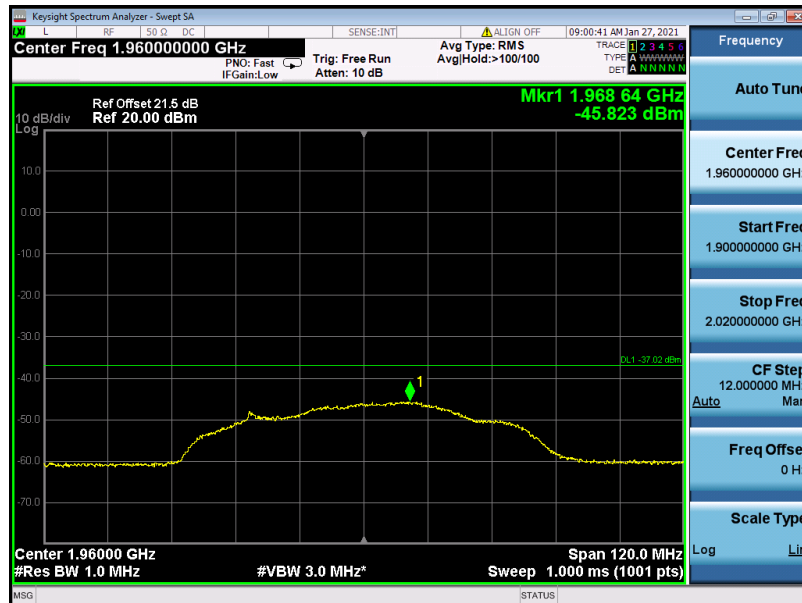


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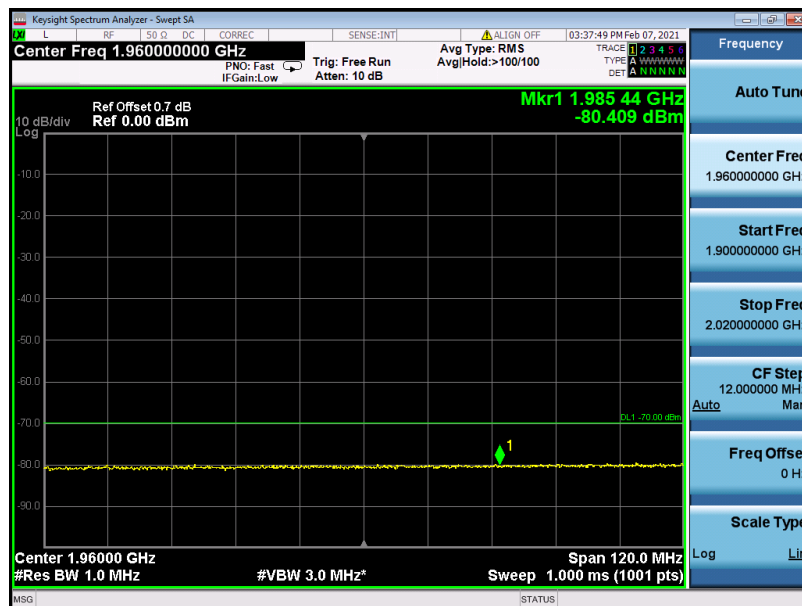
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Broadband PCS Band



Transmit Power On Mode ↑



Transmit Power Off Mode ↑



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