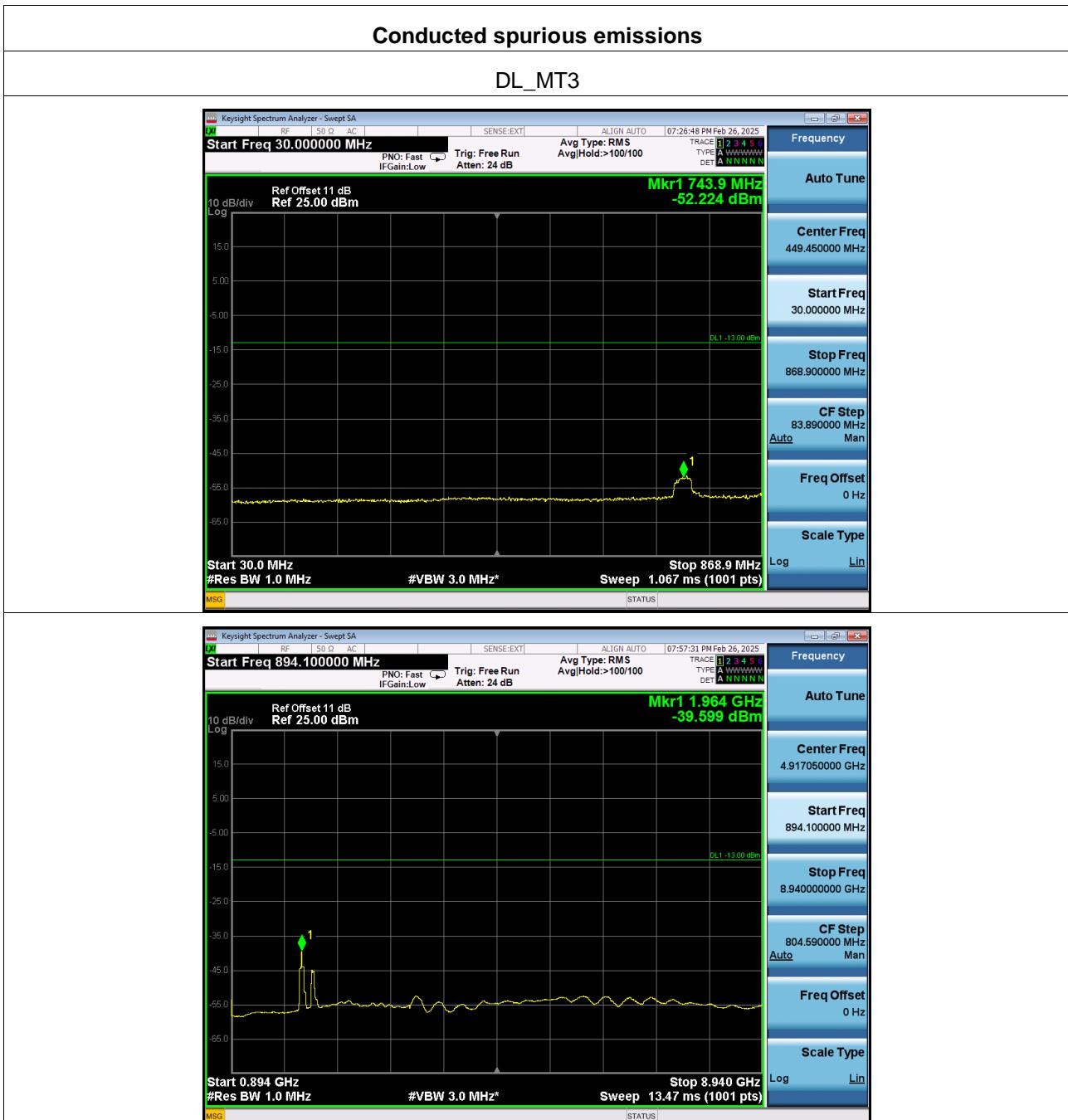


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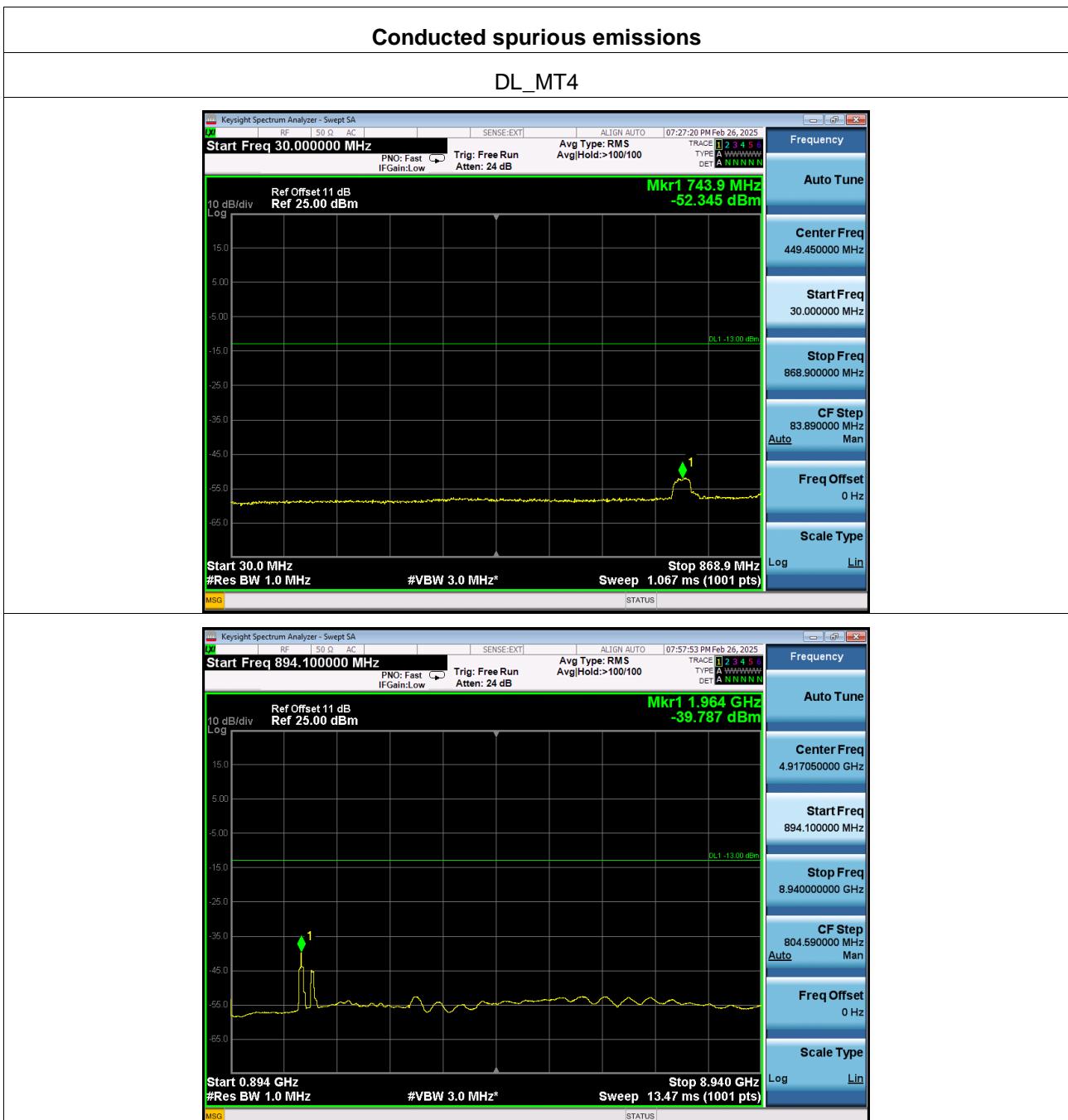
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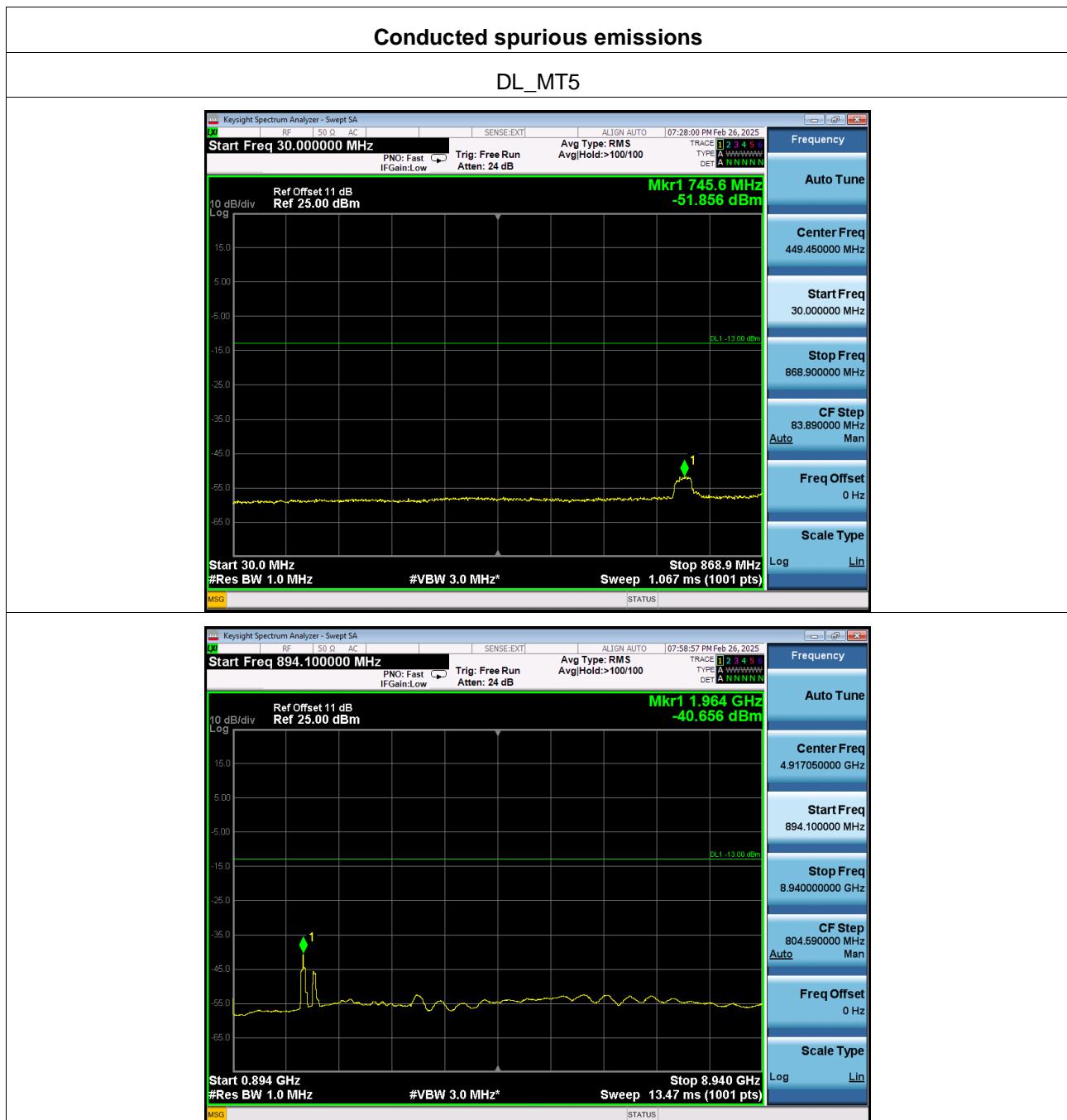
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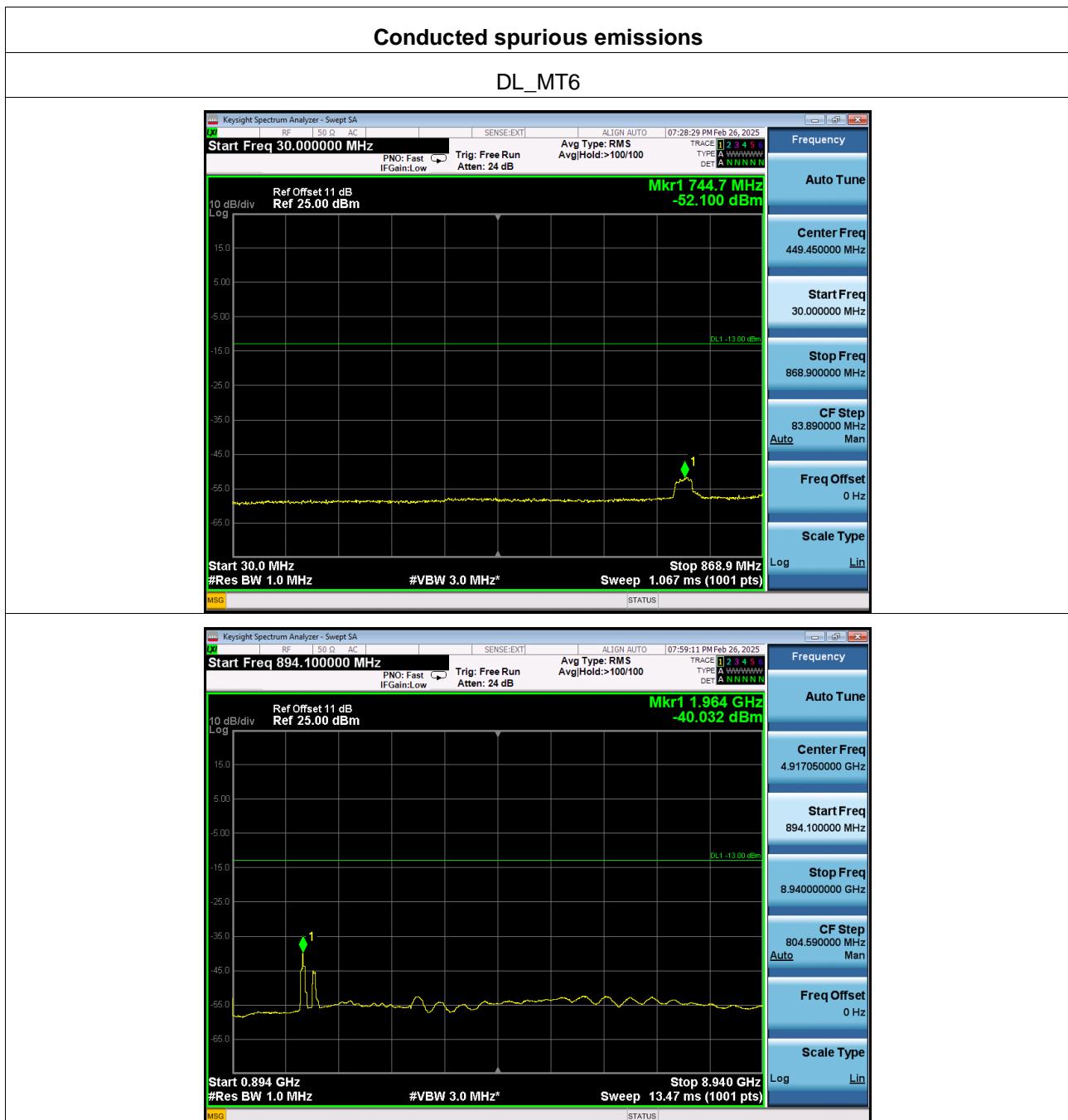
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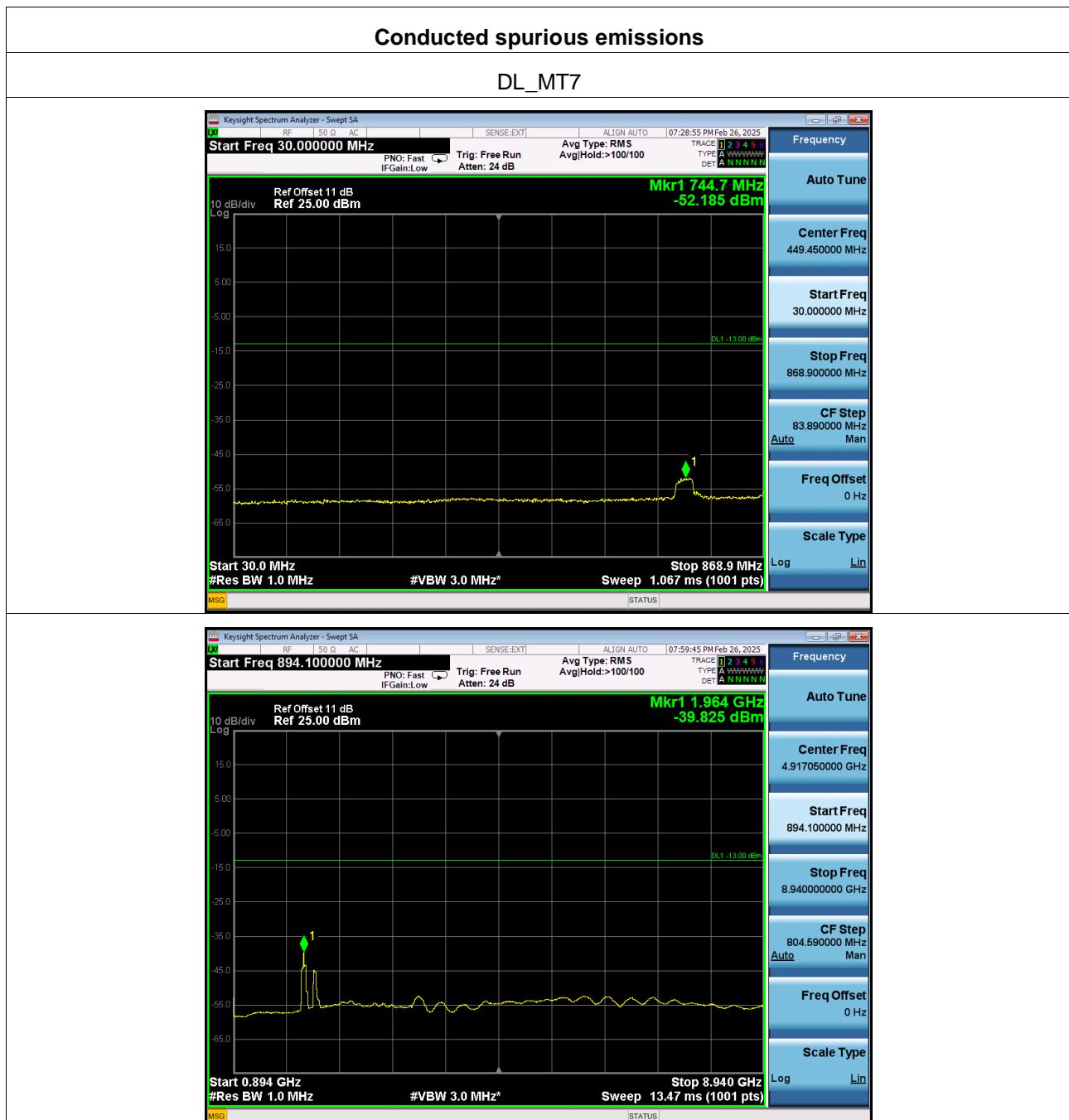
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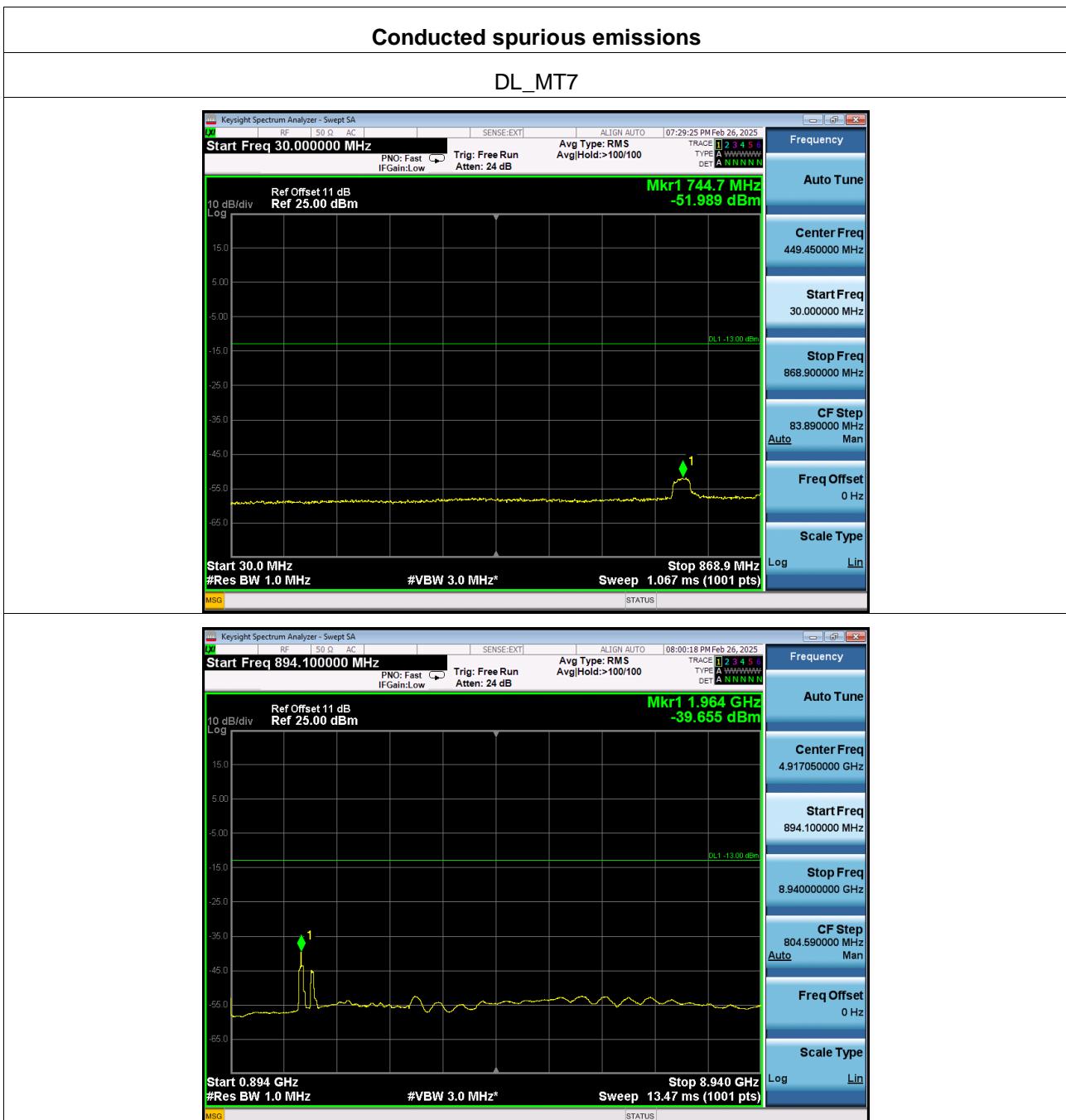
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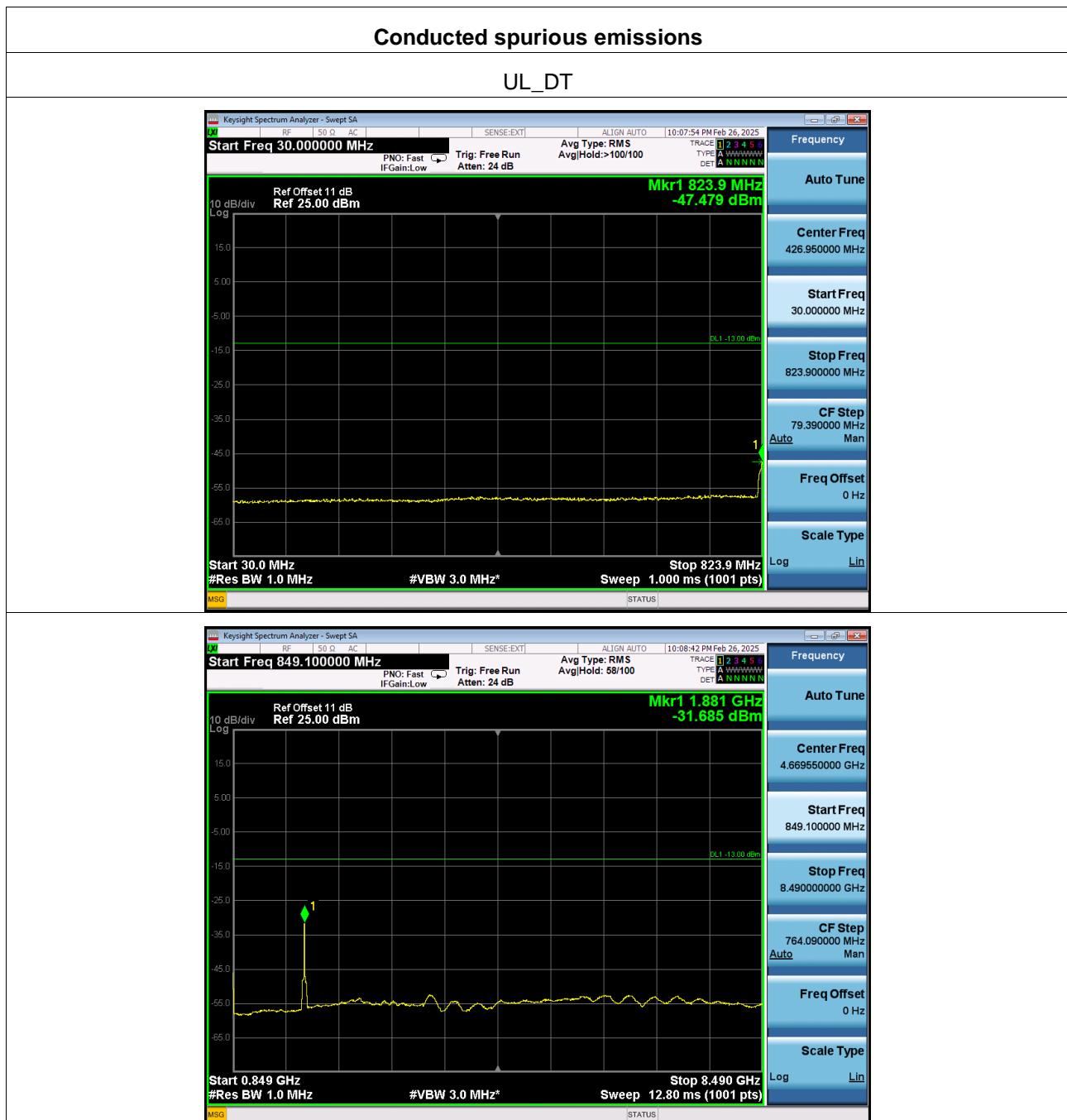




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8 Noise

8.1 Maximum transmitter noise power level

Maximum transmitter noise power level				
Test Path	Test Port	Noise Level (dBm/MHz)	Limit (dBm/MHz)	Verdict
DL	MT1	-52.71	≤-44.0	PASS
	MT2	-52.01	≤-44.0	PASS
	MT3	-53.20	≤-44.0	PASS
	MT4	-53.72	≤-44.0	PASS
	MT5	-52.62	≤-44.0	PASS
	MT6	-52.17	≤-44.0	PASS
	MT7	-52.66	≤-44.0	PASS
	MT8	-51.58	≤-44.0	PASS

Remark:
The uplink mid-band frequency is 836.5MHz for Cellular, the maximum downlink noise limit is -102.5dBm/MHz+ 20 Log (836.5)= -44.0dBm/MHz.



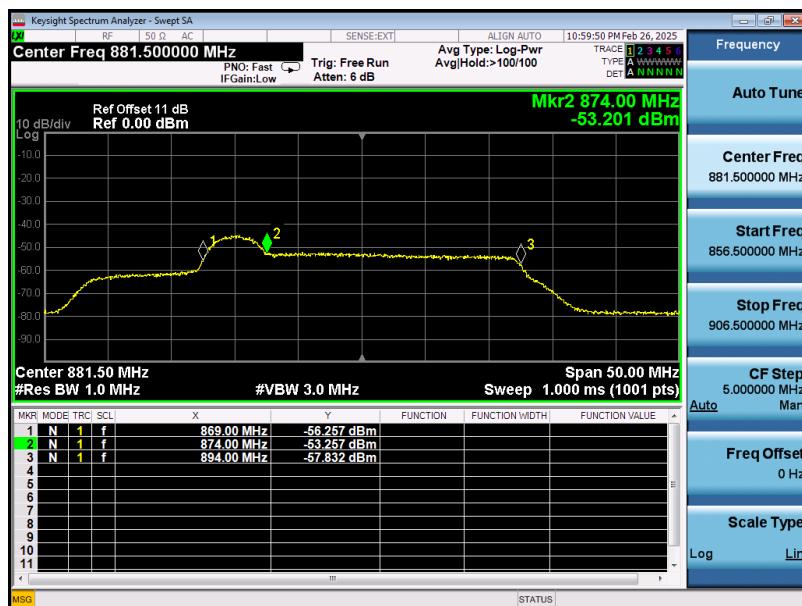
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Maximum transmitter Noise Power Level
DL_MT3

DL_MT4

Remark:

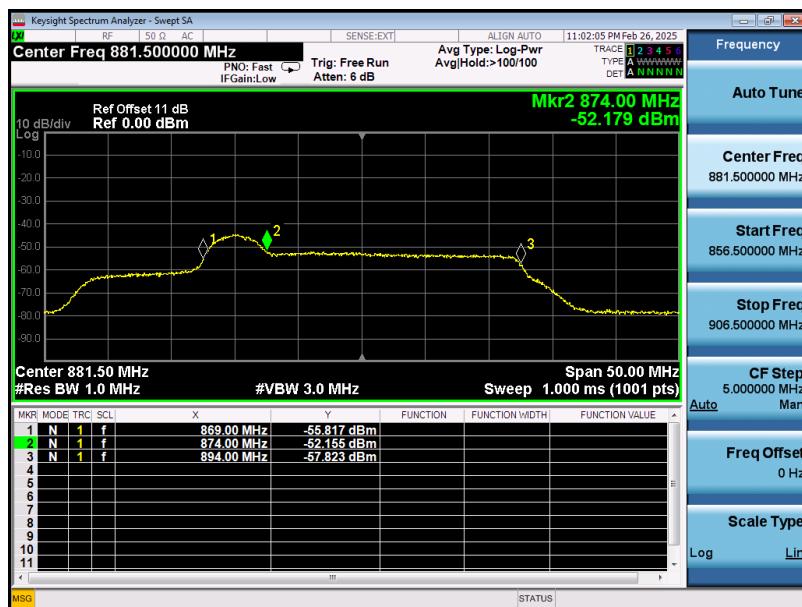
Between Mkr 2 and Mkr 3 represents the authorized licensee spectrum block set for the EUT, the noise power within that does not need to be measured.



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Maximum transmitter Noise Power Level
DL_MT5

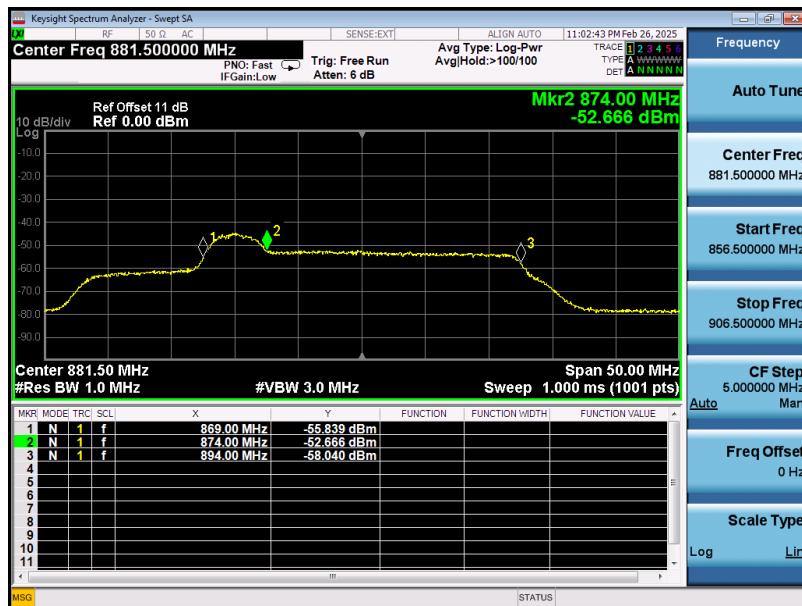
DL_MT6

Remark:

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Maximum transmitter Noise Power Level
DL_MT7

DL_MT8

Remark:

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8.2 RSSI-dependent noise power level

20.21(e)(9)(i)(A) Noise Limits:

The transmitted noise power shall not exceed $-103 \text{ dBm/MHz-RSSI}$. Boosters with MSCL less than 40 dB, shall reduce the Noise output in (A) by 40 dB-MSCL, where MSCL is the minimum coupling loss in dB between the wireless device and booster's server port.

According to appendix B and the declaration from the manufacturer, the Lowest MSCL value can be calculated:

Band	f (MHz)	d (m)	Service ANT Gain (dBi)	Cable Loss (dB)	Min. MSCL (dB)
Cellular	824	1.5	9	-9	34.3

Therefore, the transmitted noise power shall not exceed $-103 \text{ dBm/MHz-RSSI-(40-MSCL)}$

20.21(e)(9)(i)(I) Transmit Power Off Mode:

The uplink and downlink noise power shall not exceed -70 dBm/MHz in “Transmit Power OFF Mode”.

KDB 935210 D04 appendix D figure D1 provider-specific consumer signal booster variable noise limits:

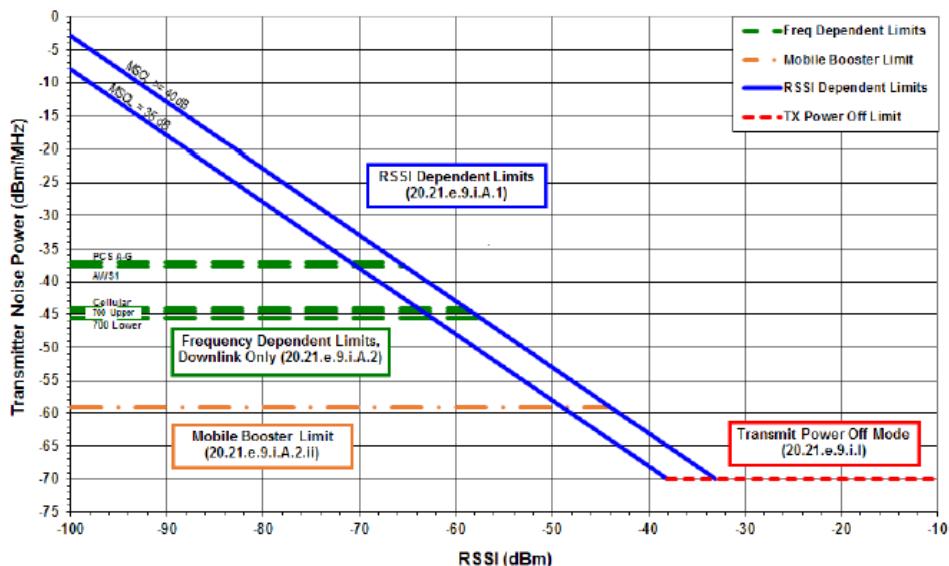


Figure D1 – Provider-specific consumer signal booster variable noise limits

Therefore, the RSSI-dependent region can be calculated as: -64.7 dBm to -38.7 dBm

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RSSI-dependent noise power level					
Test Path	Test Port	RSSI (dBm)	Noise Level (dBm/MHz)	Limit (dBm/MHz)	Verdict
DL	MT8	-90	-51.61	≤-44.0	PASS
		-80	-51.60	≤-44.0	PASS
		-70	-52.49	≤-44.0	PASS
		-57	-55.86	≤-51.7	PASS
		-51	-59.94	≤-57.7	PASS
		-40	-69.66	≤-68.7	PASS
UL	DT	-90	-53.27	≤-45.5	PASS
		-80	-53.44	≤-45.5	PASS
		-70	-54.87	≤-45.5	PASS
		-57	-56.58	≤-50.2	PASS
		-51	-60.23	≤-56.2	PASS
		-40	-69.86	≤-68.2	PASS



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8.3 Variable noise response time

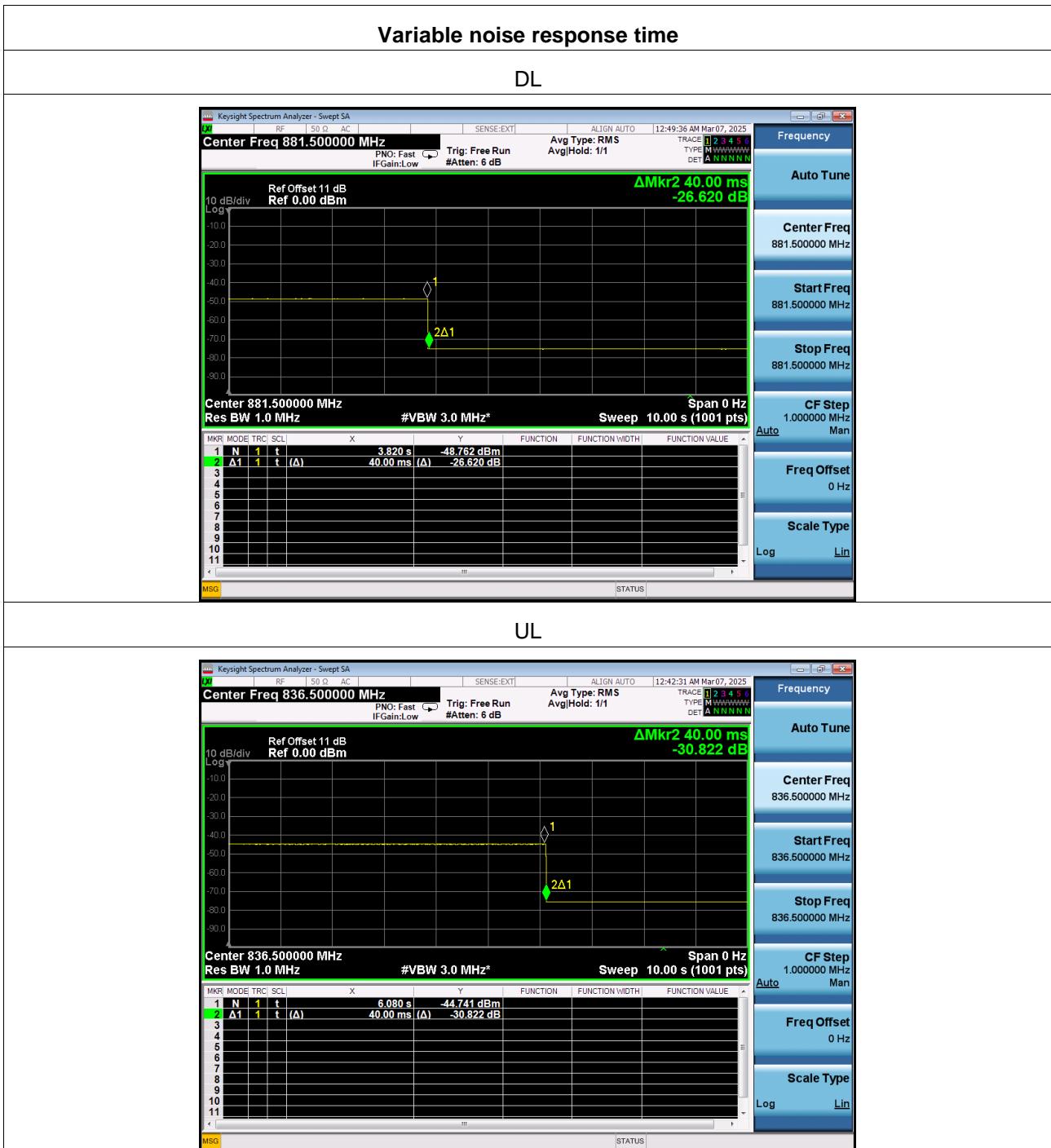
Variable noise response time				
Test Path	Test Port	Time (s)	Limit (s)	Verdict
DL	MT2	0.04	≤3	PASS
UL	DT	0.04	≤3	PASS



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9 Uplink inactivity

Uplink Inactivity						
Test Path	Test Port	Time (s)	limit (s)	Noise Level (dBm/MHz)	Limit (dBm/MHz)	Verdict
UL	DT	0.09	≤5	-75.74	≤-70	PASS



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10 Variable booster gain

10.1 Variable gain

20.21(e)(9)(i)(C)(1) Booster Gain Limits:

The uplink and downlink gain in dB of a frequency selective consumer booster referenced to its input and output ports shall not exceed BSCL-28 dB-(40 dB-MSCL).

20.21(e)(9)(i)(I) Transmit Power Off Mode:

The uplink gain shall not exceed the lesser of 23 dB or MSCL in "Transmit Power OFF Mode".

KDB 935210 D04 appendix D figure D2 provider-specific consumer signal booster variable gain limits:

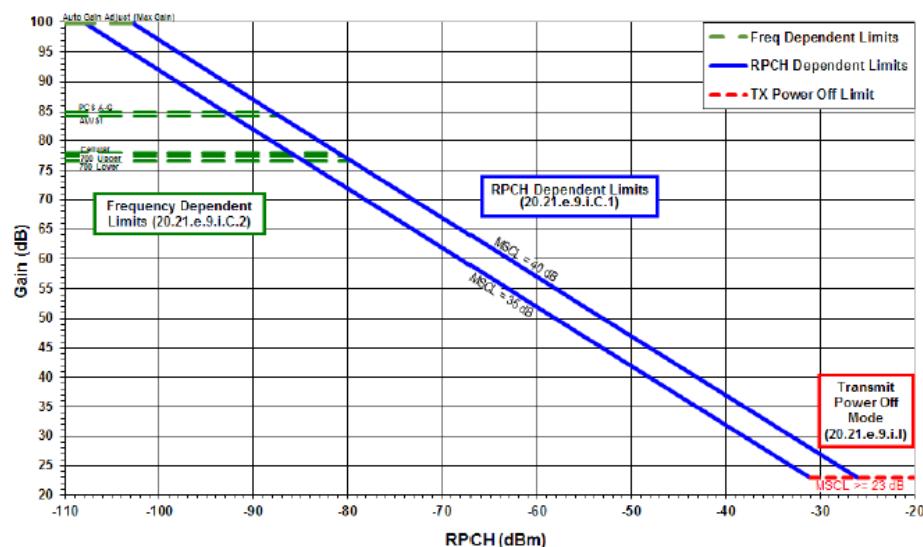


Figure D2 – Provider-specific consumer signal booster variable gain limits

According to appendix B and the declaration from the manufacturer, the Lowest MSCL value can be calculated:

Band	f (MHz)	d (m)	Service ANT Gain (dBi)	Cable Loss (dB)	Min. MSCL (dB)
Cellular	824	1.5	9	-9	34.3

Therefore, the RSSI-dependent region can be calculated as (RPCH): -108.7dBm to -31.7dBm



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Variable Gain							
Test Path	Test Port	RPCH (dBm)	BSCL (dBm)	Pout (dBm)	Gain (dB)	Limit (dB)	Verdict
DL	MT6	-90	115	-19.63	70.37	\leq 81.3	PASS
		-80	105	-20.99	59.01	\leq 71.3	PASS
		-53	78	-18.43	34.57	\leq 44.3	PASS
		-47	72	-17.16	29.84	\leq 38.3	PASS
		-30	55	/	/	\leq 23	PASS
		-20	45	/	/	\leq 23	PASS
UL	DT	-90	115	13.86	65.36	\leq 81.3	PASS
		-80	105	10.34	61.84	\leq 71.3	PASS
		-53	78	-15.18	36.32	\leq 44.3	PASS
		-47	72	-20.25	31.25	\leq 38.3	PASS
		-30	55	/	/	\leq 23	PASS
		-20	45	/	/	\leq 23	PASS

Remark:

- "/" presents the EUT shut down. It can demonstrate compliance to the gain limit because the EUT lost amplification ability when it was in shutdown mode.
- For UL, the input signal levels were set to -51.5dBm.



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10.2 Variable gain timing

Variable Uplink Gain Timing				
Test Path	Test Port	Time (s)	Limit (s)	Verdict
UL	DT	0.050	≤3	PASS



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11 Occupied bandwidth

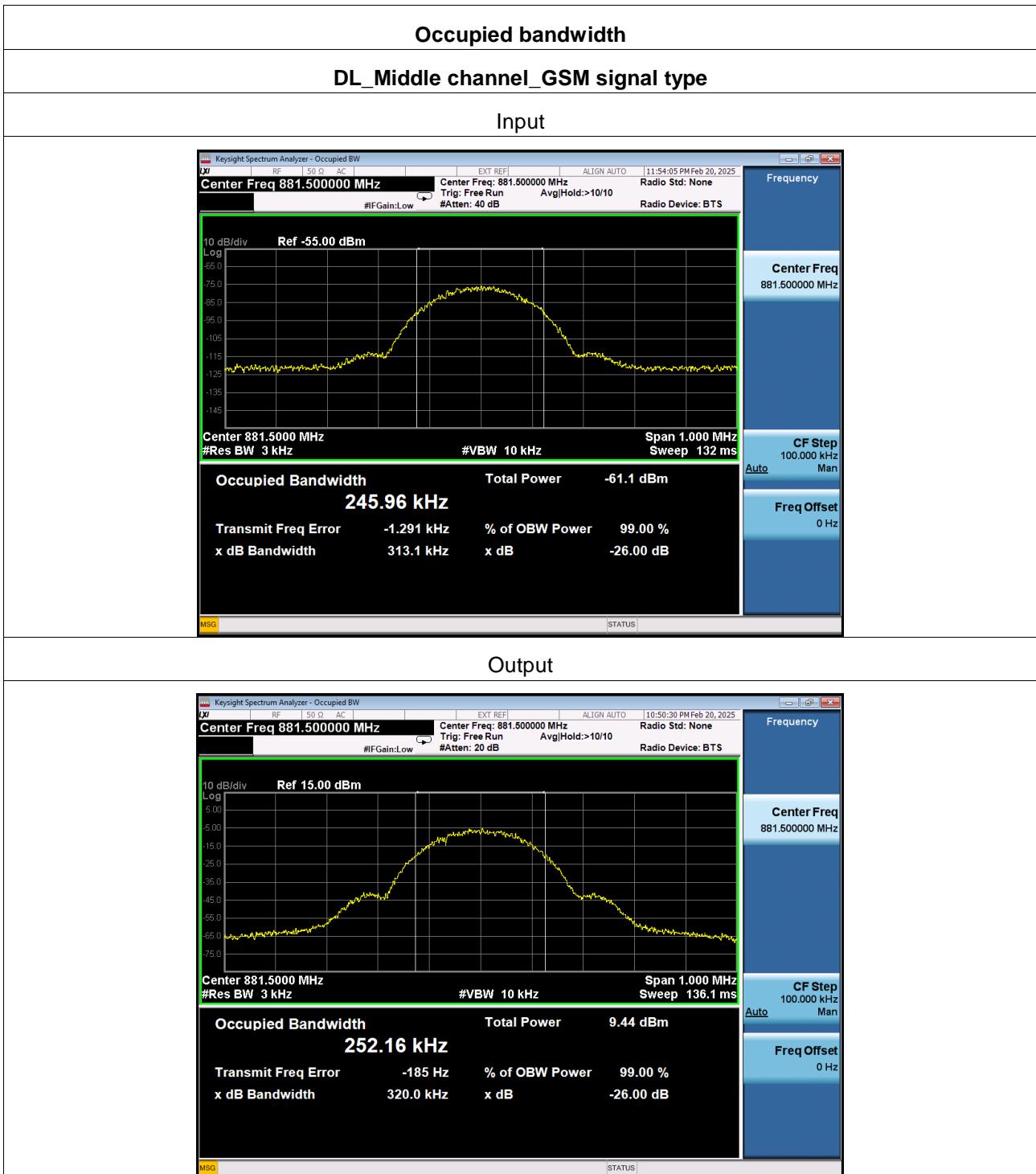
Occupied Bandwidth				
Path	Test Port	Test Channel	Input Signal	Verdict
DL	MT1	Middle	GSM	PASS
			1.25MHz AWGN	PASS
			4.1MHz AWGN	PASS
UL	DT	Middle	GSM	PASS
			1.25MHz AWGN	PASS
			4.1MHz AWGN	PASS

Remark:
Compare the spectral plot of the input signal to the output signal affirm that they are similar (in passband and roll off characteristic features and relative spectral locations). The test result complies with the requirement.



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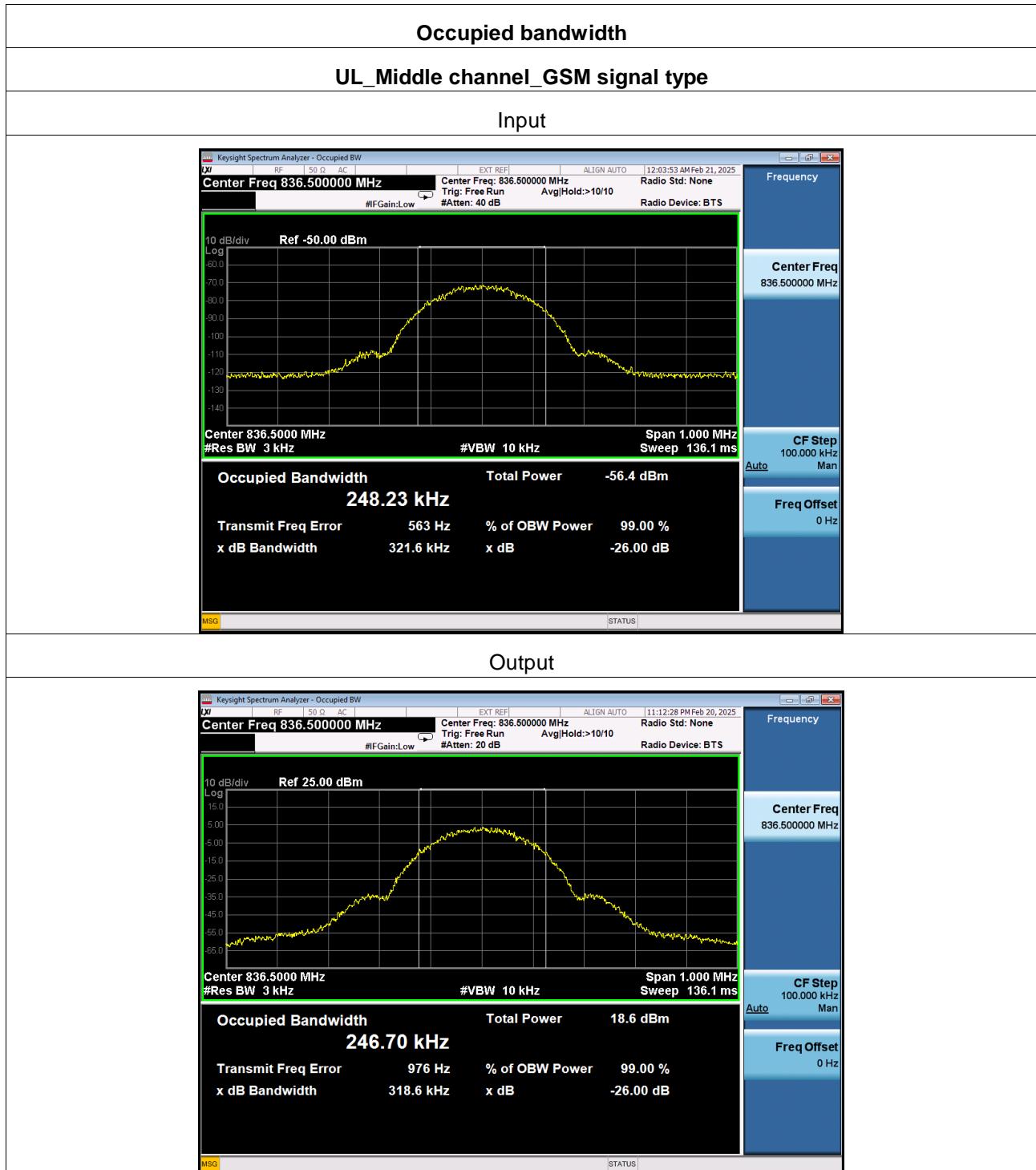
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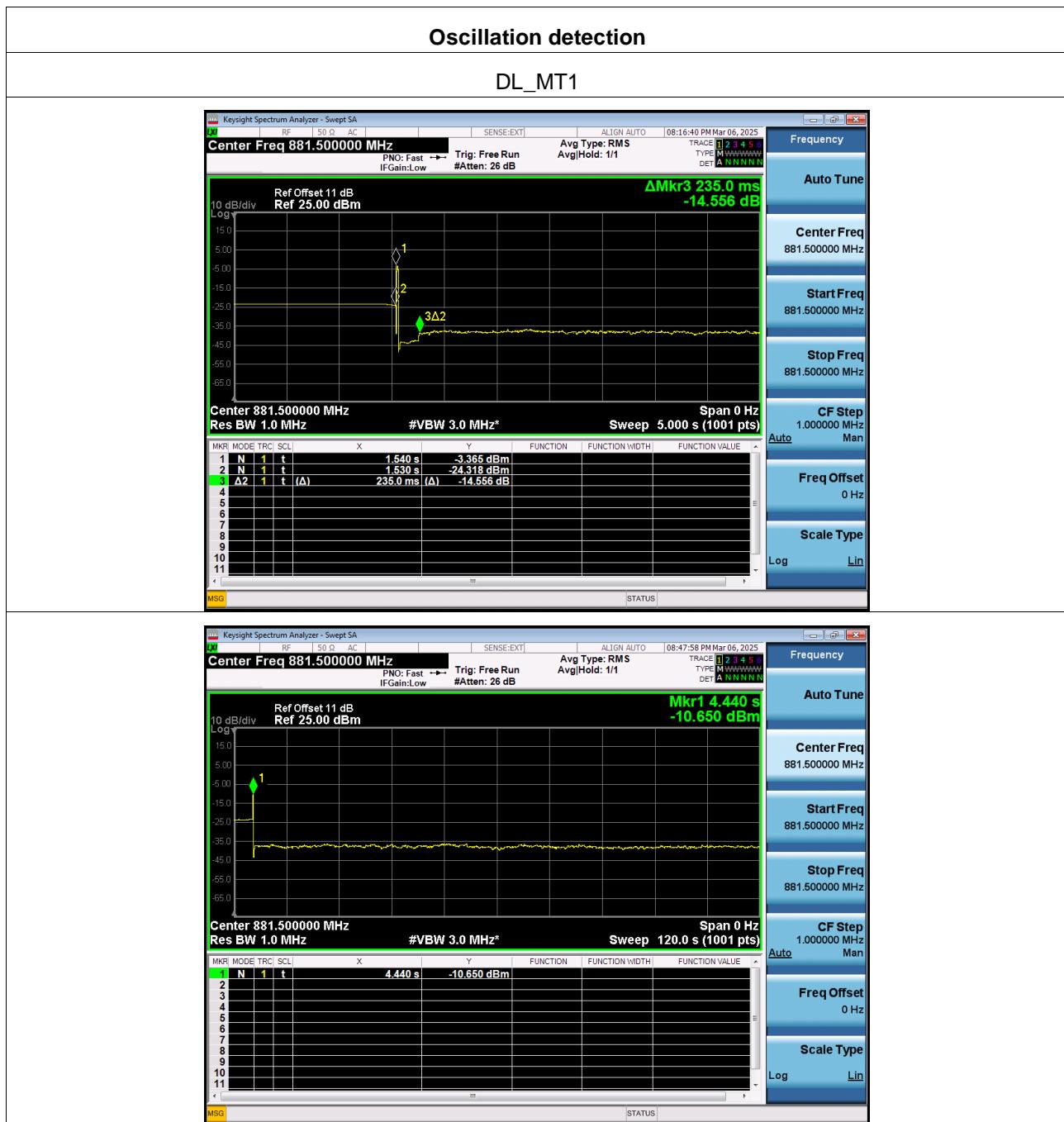
12 Oscillation detection**12.1 Oscillation detection**

Oscillation Detection									
Test Path	Test Port	Mitigation Time (s)	Limit (s)	Oscillation Level (dBm)	Number of Restart	Limit	Restart time (s)	Limit (s)	Verdict
DL	MT1	0.235	≤1	-3.36	0	≤5	/	≥60	PASS
	MT2	0.290		-0.453	0		/		PASS
	MT3	0.265		1.076	0		/		PASS
	MT4	0.250		-2.227	0		/		PASS
	MT5	0.325		-1.987	0		/		PASS
	MT6	0.245		-2.609	0		/		PASS
	MT7	0.325		-3.827	0		/		PASS
	MT8	0.230		-7.171	0		/		PASS
UL	DT	0.055	≤0.3	-0.822	0	≤5	/	≥60	PASS

Remark:
The EUT will not restart after oscillation detection and mitigation. It can demonstrate compliance to the restart limit without restart time testing.

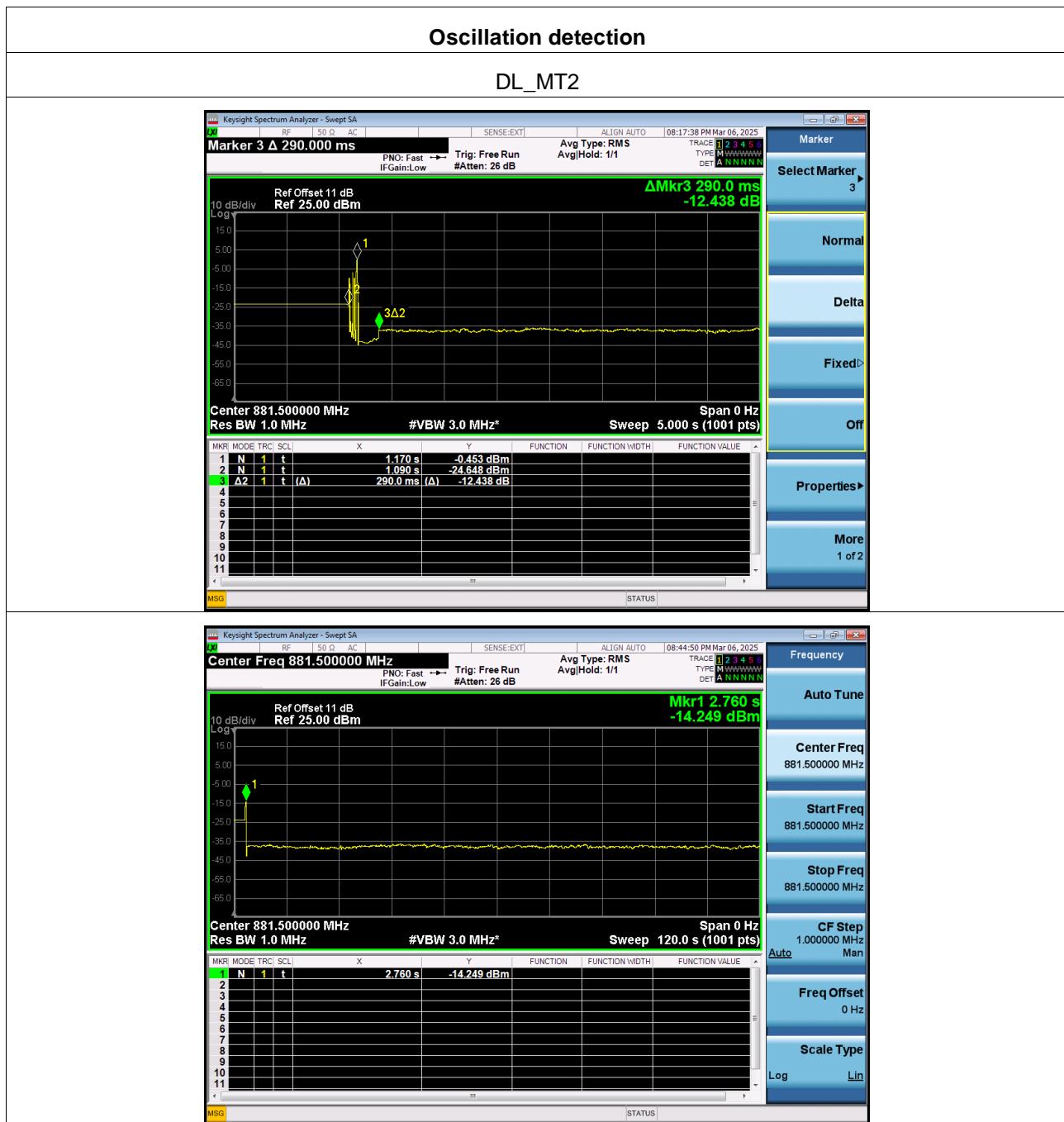
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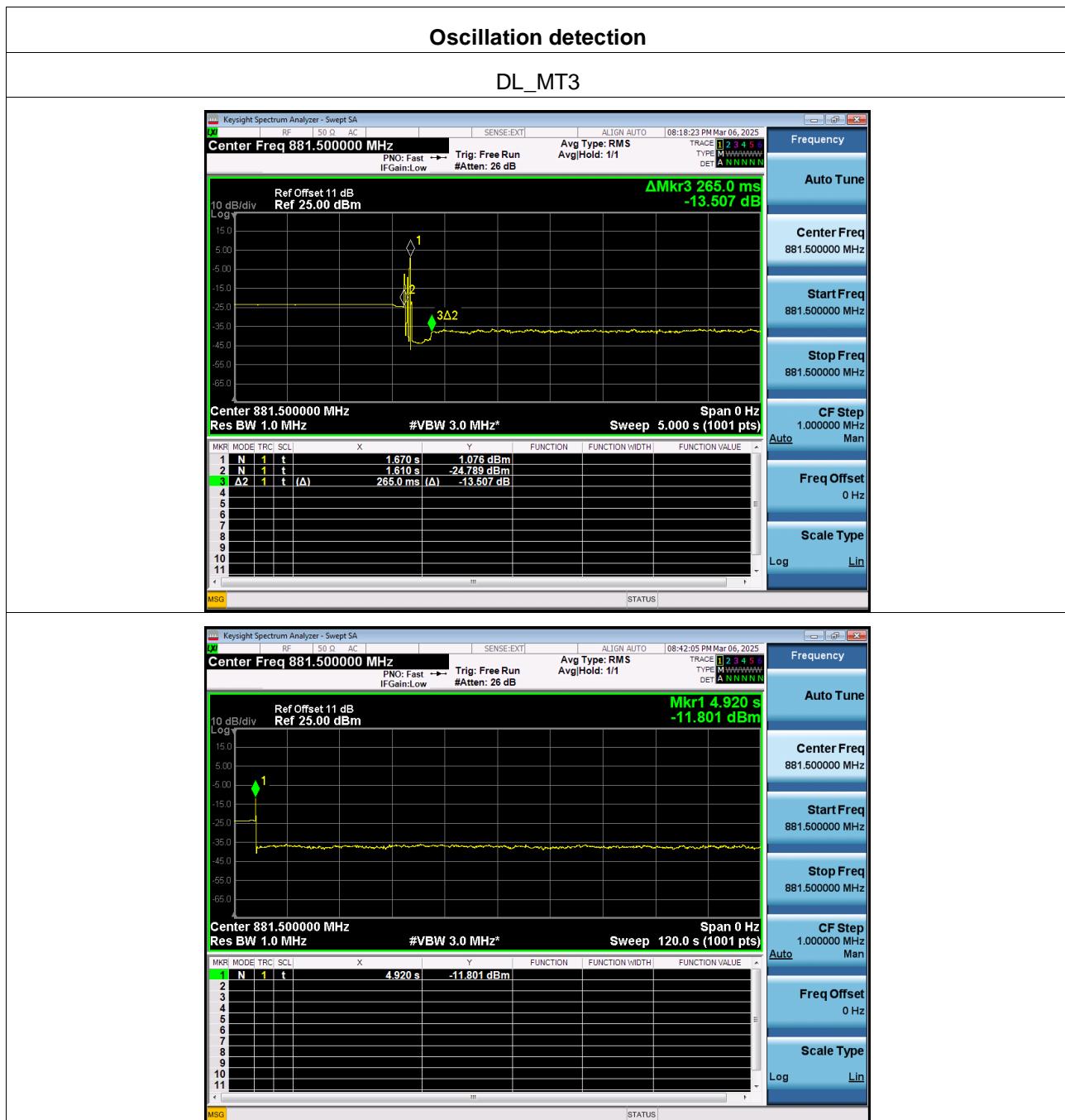
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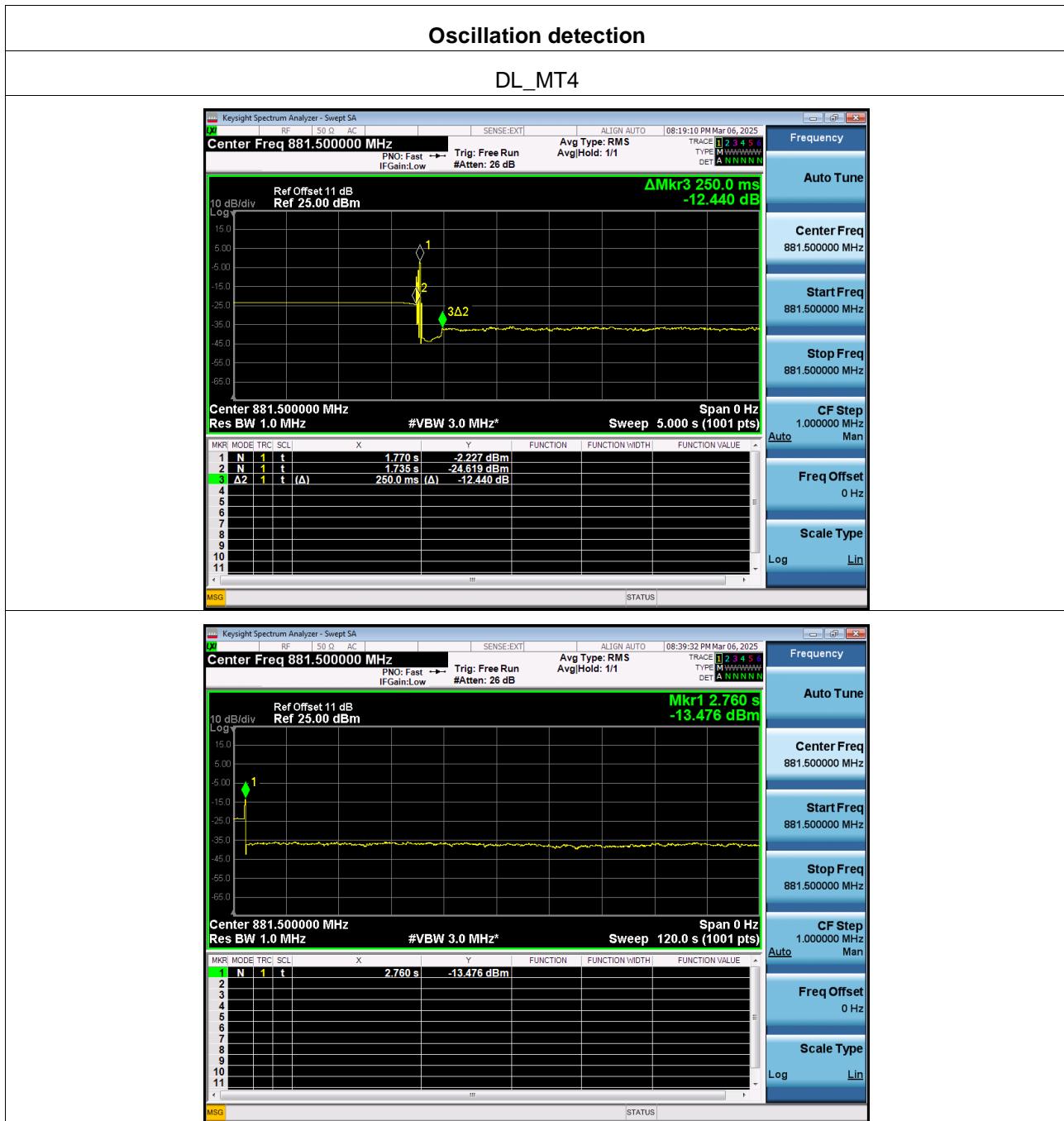
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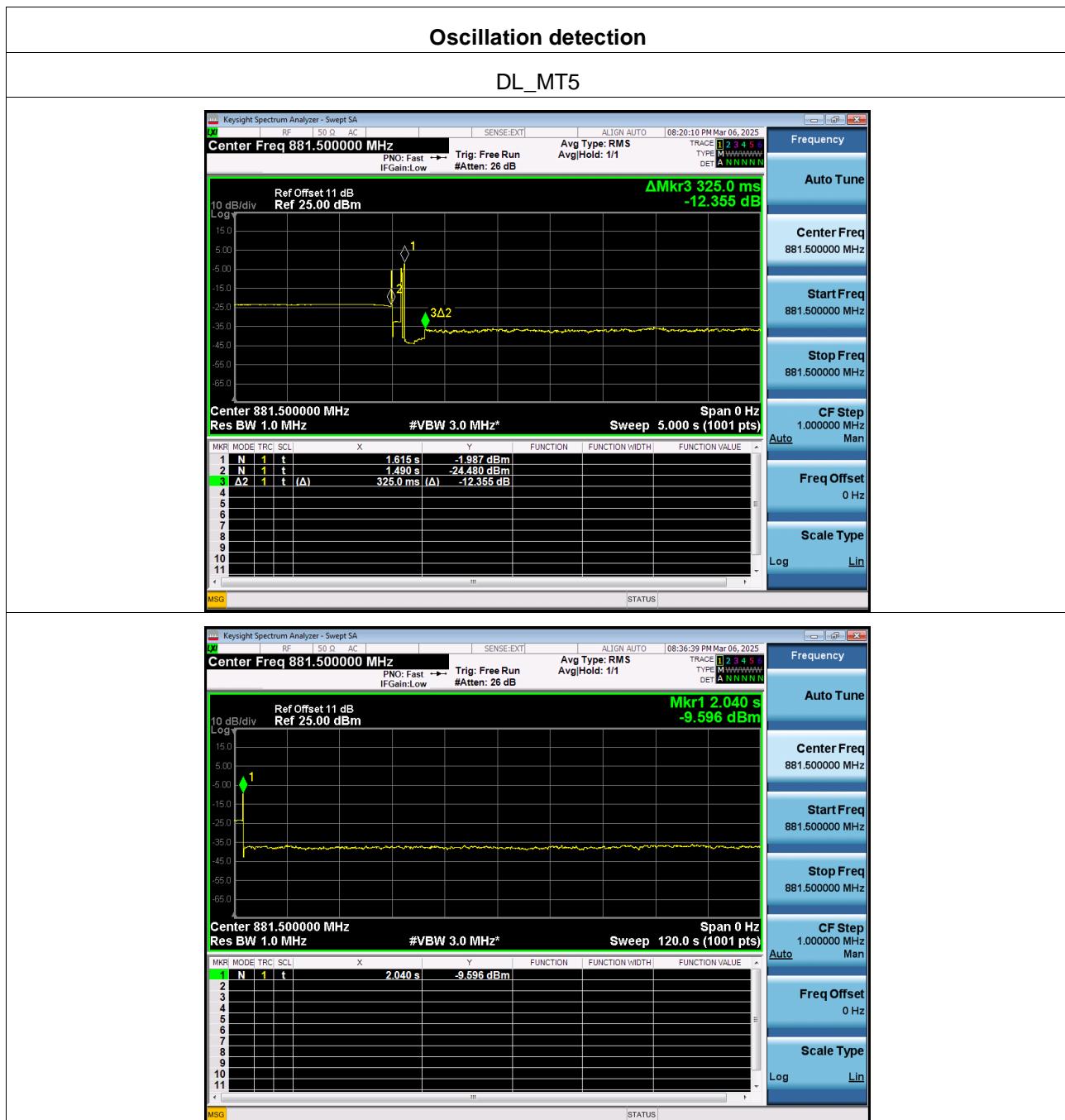
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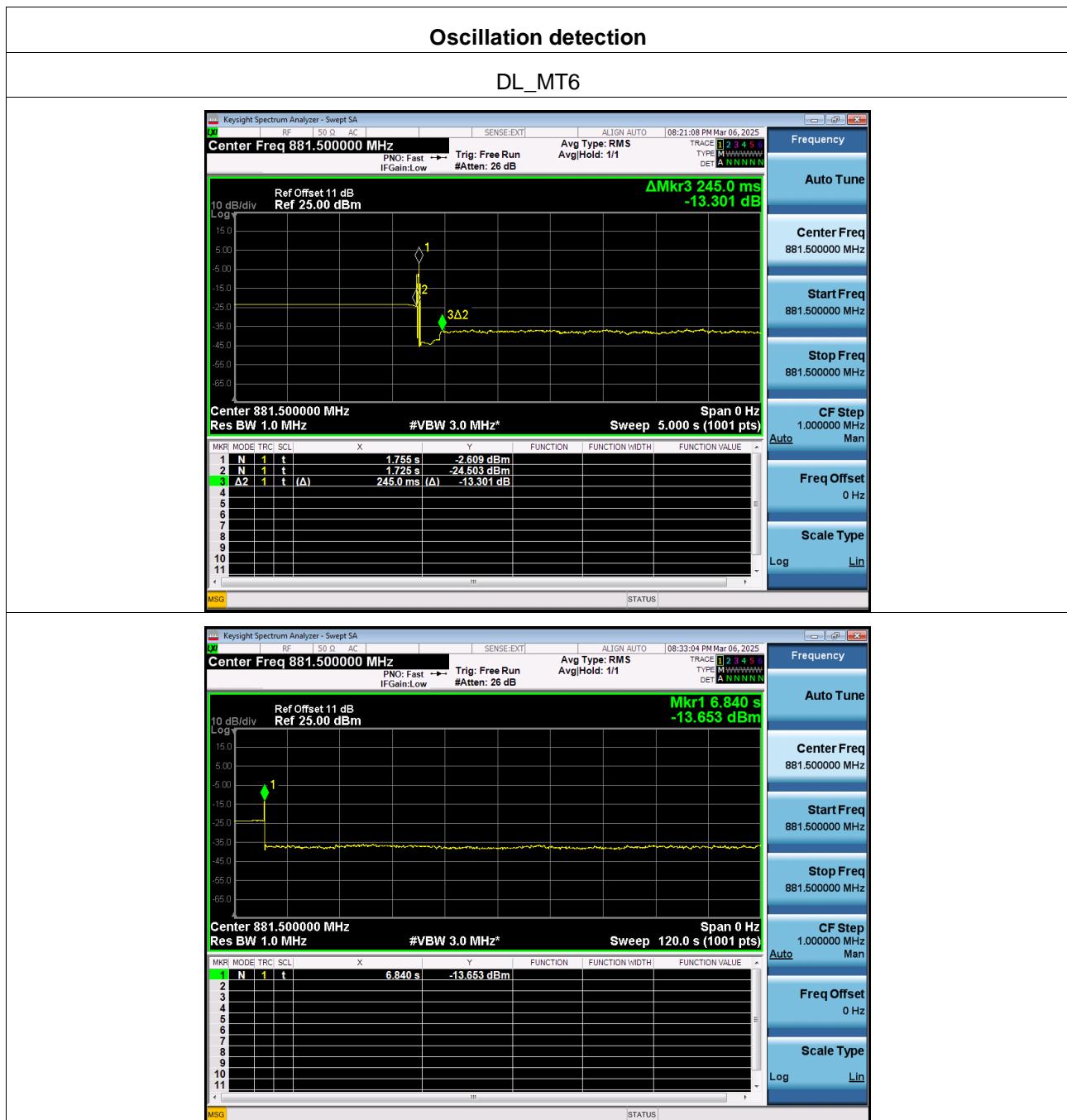
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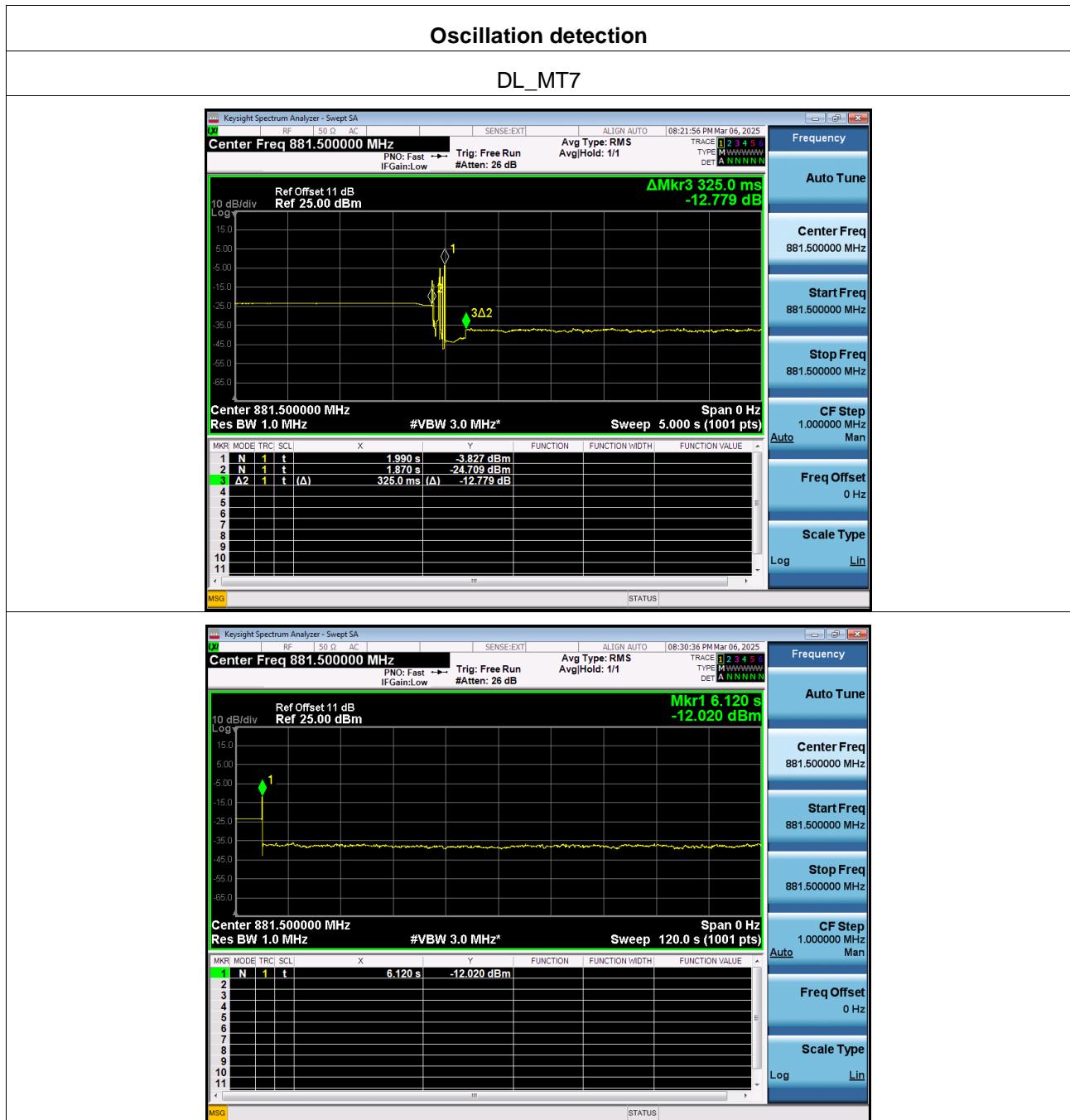
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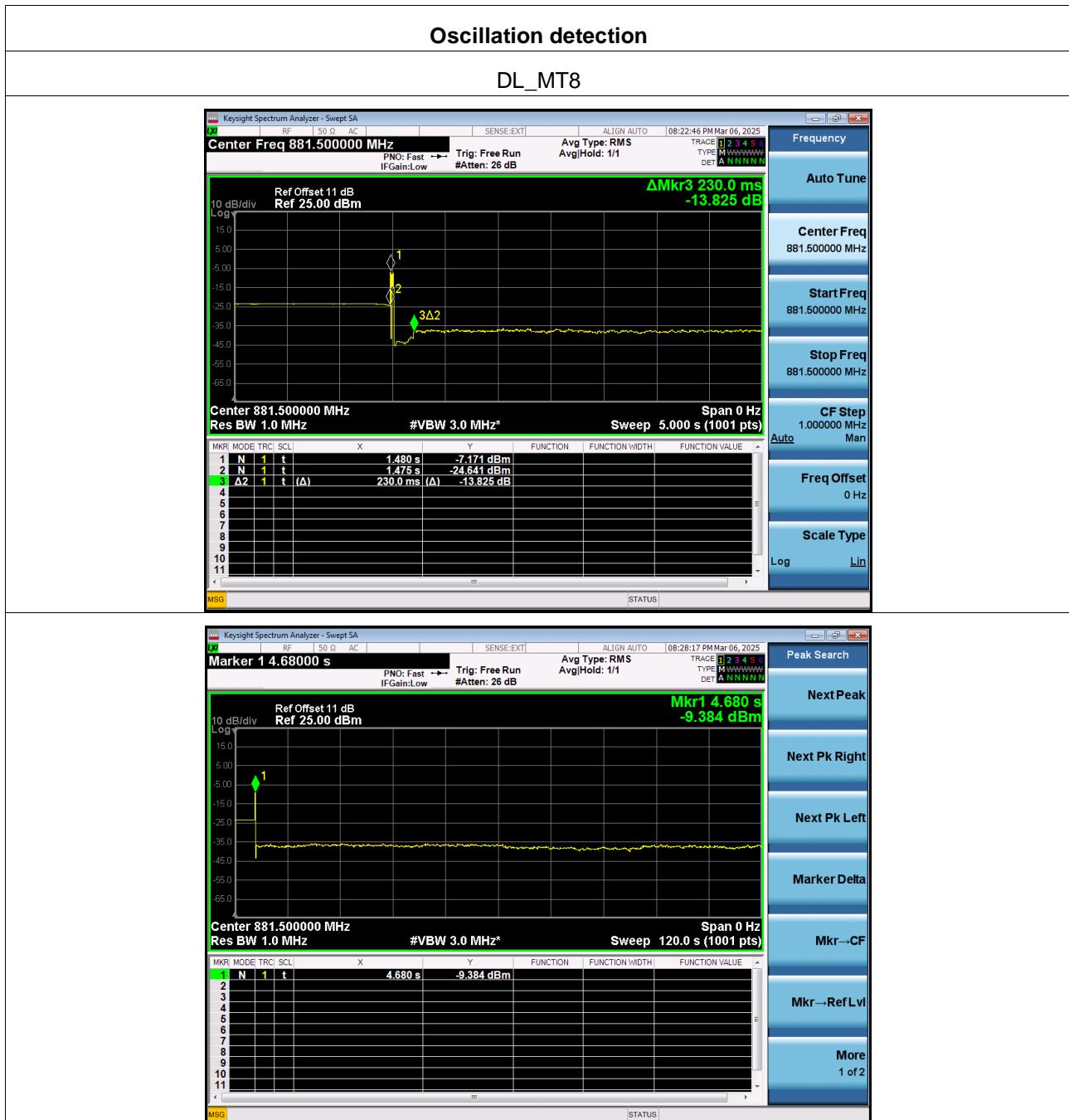


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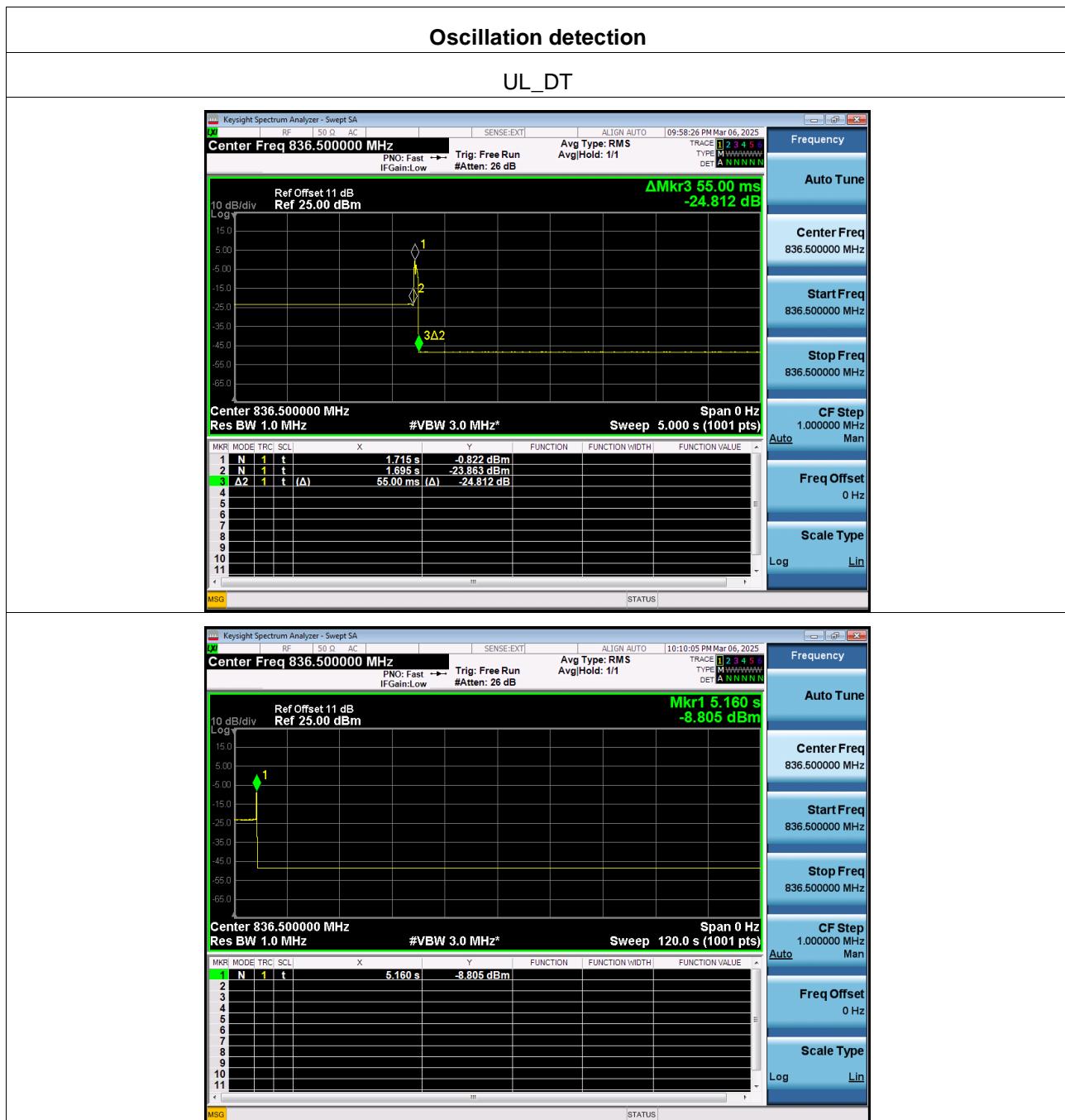
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12.2 Oscillation mitigation or shutdown

Oscillation Mitigation or Shutdown							
Test Path	Test Port	Isolation (dB)	Oscillation Level				Verdict
			Highest level (dBm)	Lowest level (dBm)	Difference (dB)	Limit (dB)	
DL	MT1	74.74	-16.48	-24.85	8.37	≤12	PASS
		73.74	-13.21	-19.42	6.21		PASS
		72.74	-10.08	-18.47	8.39		PASS
		71.74	-7.95	-16.81	8.86		PASS
		70.74	-5.44	-9.58	4.14		PASS
		69.74	-3.36	-8.91	5.55		PASS
		68.74	-1.16	-7.03	5.87		PASS
		67.74	/	/	/		PASS
		66.74	/	/	/		PASS
		65.74	/	/	/		PASS
		64.74	/	/	/		PASS
DL	MT2	74.85	-9.91	-17.83	7.92	≤12	PASS
		73.85	-8.32	-15.35	7.03		PASS
		72.85	-5.09	-9.35	4.26		PASS
		71.85	-3.38	-9.00	5.62		PASS
		70.85	-0.45	-8.21	7.76		PASS
		69.85	1.17	-6.93	8.10		PASS
		68.85	3.95	-4.03	7.98		PASS
		67.85	/	/	/		PASS
		66.85	/	/	/		PASS
		65.85	/	/	/		PASS
		64.85	/	/	/		PASS
Remark: "/" presents the EUT shut down.							

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Oscillation Mitigation or Shutdown							
Test Path	Test Port	Isolation (dB)	Oscillation Level				Verdict
			Highest level (dBm)	Lowest level (dBm)	Difference (dB)	Limit (dB)	
DL	MT3	75.06	-9.74	-17.83	8.09	≤12	PASS
		74.06	-7.98	-17.03	9.05		PASS
		73.06	-7.44	-16.65	9.21		PASS
		72.06	-5.74	-14.96	9.22		PASS
		71.06	-3.21	-11.38	8.17		PASS
		70.06	0.43	-8.97	9.40		PASS
		69.06	1.83	-6.36	8.19		PASS
		68.06	3.49	-3.92	7.41		PASS
		67.06	/	/	/		PASS
		66.06	/	/	/		PASS
		65.06	/	/	/		PASS
DL	MT4	74.94	-14.36	-19.55	5.19	≤12	PASS
		73.94	-10.05	-13.26	3.21		PASS
		72.94	-7.94	-10.35	2.41		PASS
		71.94	-5.16	-8.98	3.82		PASS
		70.94	-3.86	-8.01	4.15		PASS
		69.94	-3.00	-7.33	4.33		PASS
		68.94	-2.10	-6.95	4.85		PASS
		67.94	0.95	-3.94	4.89		PASS
		66.94	/	/	/		PASS
		65.94	/	/	/		PASS
		64.94	/	/	/		PASS

Remark:

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Oscillation Mitigation or Shutdown							
Test Path	Test Port	Isolation (dB)	Oscillation Level				Verdict
			Highest level (dBm)	Lowest level (dBm)	Difference (dB)	Limit (dB)	
DL	MT5	75.27	-13.26	-19.84	6.58	≤12	PASS
		74.27	-9.52	-16.34	6.82		PASS
		73.27	-7.84	-14.30	6.46		PASS
		72.27	-5.99	-10.73	4.74		PASS
		71.27	-4.03	-9.84	5.81		PASS
		70.27	-3.39	-8.23	4.84		PASS
		69.27	-1.73	-7.73	6.00		PASS
		68.27	1.38	-4.91	6.29		PASS
		67.27	3.95	-3.95	7.90		PASS
		66.27	/	/	/		PASS
		65.27	/	/	/		PASS
DL	MT6	75.37	-11.84	-18.93	7.09	≤12	PASS
		74.37	-8.83	-15.38	6.55		PASS
		73.37	-6.96	-14.32	7.36		PASS
		72.37	-6.33	-13.83	7.50		PASS
		71.37	-5.98	-10.46	4.48		PASS
		70.37	-4.40	-10.02	5.62		PASS
		69.37	-2.43	-7.96	5.53		PASS
		68.37	-0.74	-6.05	5.31		PASS
		67.37	2.08	-4.27	6.35		PASS
		66.37	/	/	/		PASS
		65.37	/	/	/		PASS

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Oscillation Mitigation or Shutdown							
Test Path	Test Port	Isolation (dB)	Oscillation Level				Verdict
			Highest level (dBm)	Lowest level (dBm)	Difference (dB)	Limit (dB)	
DL	MT7	75.16	-9.85	-16.94	7.09	≤12	PASS
		74.16	-8.02	-13.28	5.26		PASS
		73.16	-7.11	-10.00	2.89		PASS
		72.16	-5.96	-9.35	3.39		PASS
		71.16	-3.63	-6.94	3.31		PASS
		70.16	-1.08	-4.96	3.88		PASS
		69.16	3.27	-0.83	4.10		PASS
		68.16	3.99	0.46	3.53		PASS
		67.16	/	/	/		PASS
		66.16	/	/	/		PASS
		65.16	/	/	/		PASS
DL	MT8	74.87	-16.84	-21.32	4.48	≤12	PASS
		73.87	-14.28	-20.48	6.20		PASS
		72.87	-13.29	-18.92	5.63		PASS
		71.87	-10.36	-17.00	6.64		PASS
		70.87	-7.00	-13.25	6.25		PASS
		69.87	-4.84	-8.94	4.10		PASS
		68.87	-2.18	-7.42	5.24		PASS
		67.87	1.43	-4.02	5.45		PASS
		66.87	/	/	/		PASS
		65.87	/	/	/		PASS
		64.87	/	/	/		PASS

Remark:

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Oscillation Mitigation or Shutdown							
Test Path	Test Port	Isolation (dB)	Oscillation Level				Verdict
			Highest level (dBm)	Lowest level (dBm)	Difference (dB)	Limit (dB)	
UL	DT	70.46	-7.85	-14.93	7.08	≤12	PASS
		69.46	-6.23	-13.48	7.25		PASS
		68.46	-4.98	-11.94	6.96		PASS
		67.46	-4.49	-10.12	5.63		PASS
		66.46	-3.28	-8.57	5.29		PASS
		65.46	-0.64	-3.26	2.62		PASS
		64.46	2.38	-1.94	4.32		PASS
		63.46	4.22	1.17	3.05		PASS
		62.46	/	/	/		PASS
		61.46	/	/	/		PASS
		60.46	/	/	/		PASS

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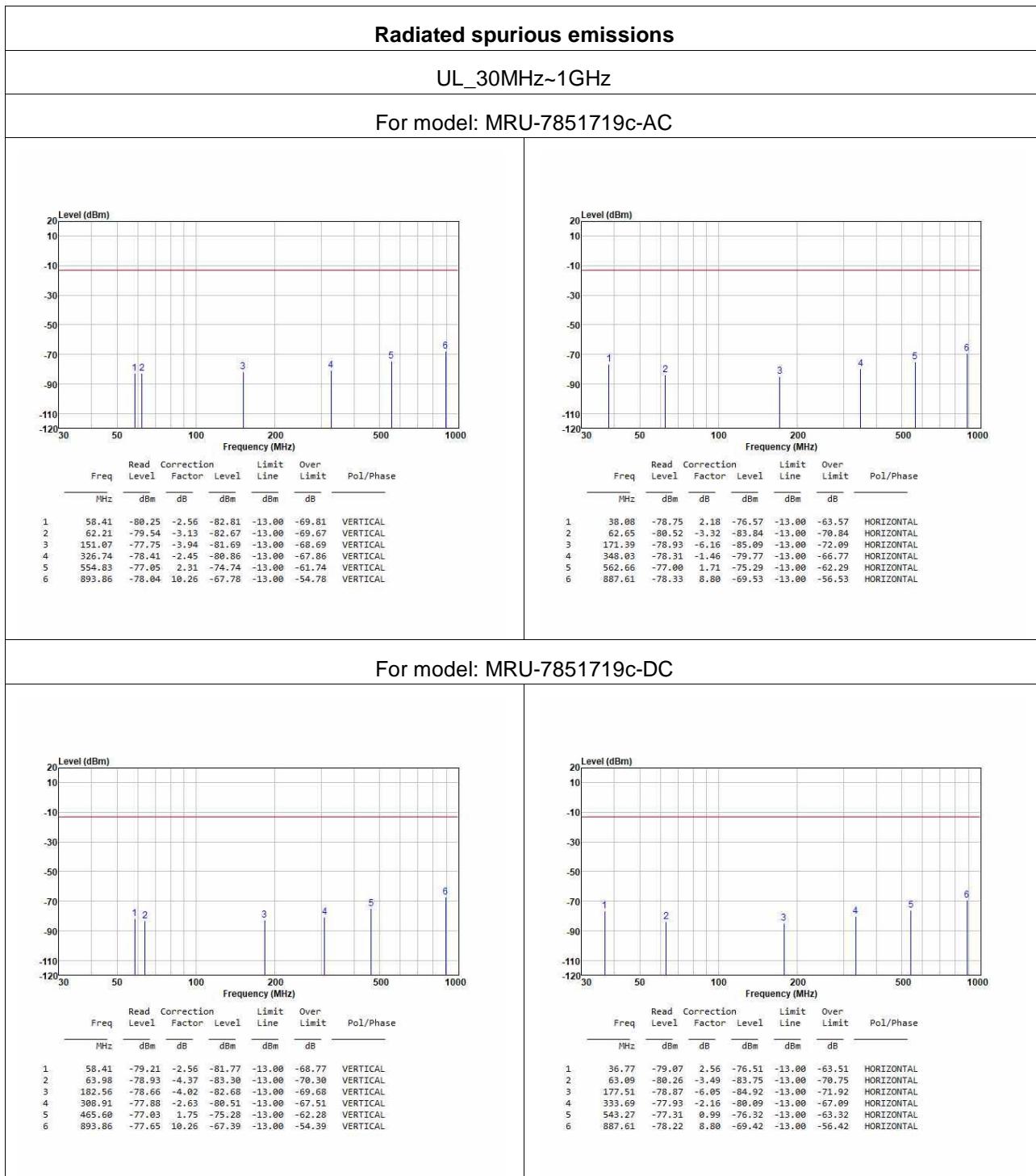
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13 Radiated spurious emissions



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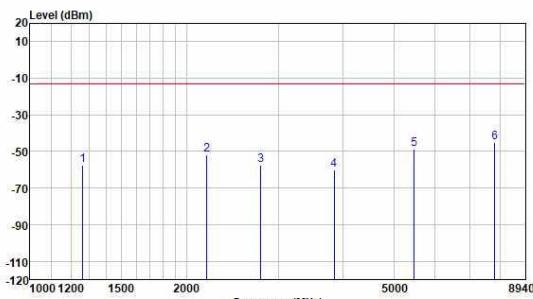
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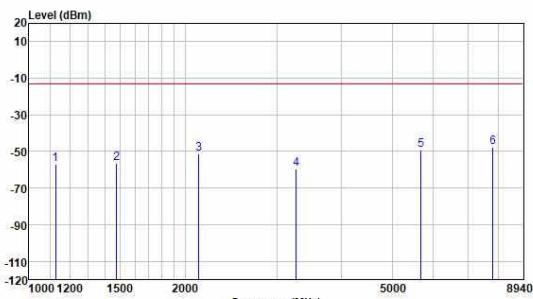
Radiated spurious emissions

UL_above 1GHz

For model: MRU-7851719c-AC

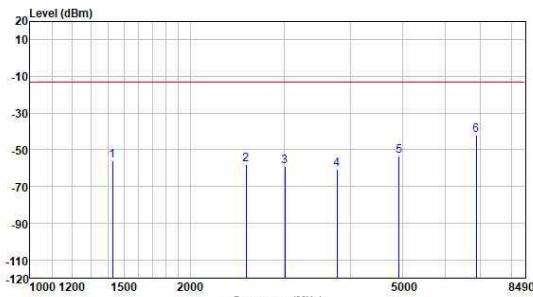


	Freq	Read Level	Correction Factor	Limit Level	Over Line	Over Limit	Pol/Phase
	MHz	dBm	dB	dBm	dBm	dB	
1	1264.13	-61.49	4.28	-57.29	-13.00	-44.29	VERTICAL
2	2185.89	-61.12	9.39	-51.73	-13.00	-38.73	VERTICAL
3	2775.39	-61.82	4.26	-57.56	-13.00	-44.56	VERTICAL
4	3838.14	-62.88	2.91	-59.89	-13.00	-46.89	VERTICAL
5	5473.16	-63.07	14.27	-48.80	-13.00	-35.80	VERTICAL
6	7804.67	-62.00	16.66	-45.34	-13.00	-32.34	VERTICAL

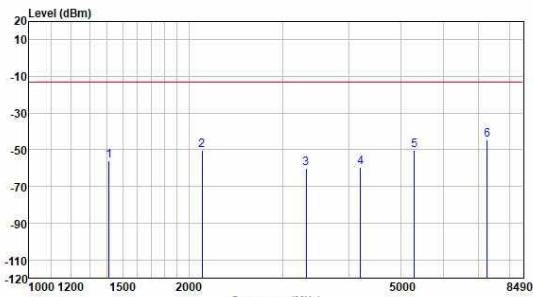


	Freq	Read Level	Correction Factor	Limit Level	Over Line	Over Limit	Pol/Phase
	MHz	dBm	dB	dBm	dBm	dB	
1	1125.57	-60.82	3.85	-56.97	-13.00	-43.97	HORIZONTAL
2	1473.62	-61.13	4.70	-56.43	-13.00	-43.43	HORIZONTAL
3	2124.52	-60.89	9.42	-51.47	-13.00	-38.47	HORIZONTAL
4	3270.95	-61.92	2.22	-59.70	-13.00	-46.70	HORIZONTAL
5	5680.82	-62.82	13.85	-48.97	-13.00	-35.97	HORIZONTAL
6	7804.67	-61.72	14.22	-47.50	-13.00	-34.50	HORIZONTAL

For model: MRU-7851719c-DC



	Freq	Read Level	Correction Factor	Limit Level	Over Line	Over Limit	Pol/Phase
	MHz	dBm	dB	dBm	dBm	dB	
1	1429.31	-60.70	4.88	-55.82	-13.00	-42.82	VERTICAL
2	2541.00	-64.58	6.68	-57.98	-13.00	-44.98	VERTICAL
3	3088.76	-62.10	2.93	-59.17	-13.00	-46.17	VERTICAL
4	3766.37	-63.55	3.06	-60.49	-13.00	-47.49	VERTICAL
5	4920.81	-63.15	9.63	-53.52	-13.00	-40.52	VERTICAL
6	6869.83	-62.84	20.70	-42.14	-13.00	-29.14	VERTICAL



	Freq	Read Level	Correction Factor	Limit Level	Over Line	Over Limit	Pol/Phase
	MHz	dBm	dB	dBm	dBm	dB	
1	1414.11	-60.67	4.62	-56.05	-13.00	-43.05	HORIZONTAL
2	2114.06	-59.95	9.47	-50.48	-13.00	-37.48	HORIZONTAL
3	3319.84	-62.31	2.22	-60.09	-13.00	-47.09	HORIZONTAL
4	4200.46	-63.65	4.14	-59.51	-13.00	-46.51	HORIZONTAL
5	5303.32	-62.93	12.53	-50.40	-13.00	-37.40	HORIZONTAL
6	7262.69	-62.23	17.89	-44.34	-13.00	-31.34	HORIZONTAL

Remark:

Pre-test was performed at uplink and downlink path, the test result always keeps more than 20dB margin, The spurious emissions 9kHz to 30MHz were very low and not displayed in this report. Therefore, only show the worst-case data in this report.



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14 Spectrum blocking filtering

Spectrum blocking filtering			
UL filter attenuation (dB)	DL filter attenuation (dB)	Limit	Verdict
59.56	59.18	UL ≥ DL	PASS
Remark: Please refer to clause 1 "Authorized frequency band verification" test plots for more details.			



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15 Out of band gain

Out of band gain								
Test Path	Test Port	Offset (MHz)	Gain (dB)		ATT (dB)		ATT Limit (dB)	Verdict
			Low edge	High edge	Low edge	High edge		
DL	MT6	f_c	70.37		/		/	/
		0	48.33	49.11	-22.04	-21.26	≤ -20	PASS
		1	36.64	33.72	-33.73	-36.65	≤ -30	PASS
		5	27.94	29.35	-42.43	-41.02	≤ -40	PASS
UL	DT	f_c	65.46		/		/	/
		0	43.18	42.37	-21.28	-22.09	≤ -20	PASS
		1	29.04	31.39	-35.42	-33.07	≤ -30	PASS
		5	23.28	21.94	-41.18	-42.52	≤ -40	PASS

Remark:

1. f_c is the centre frequency of the pass band of the EUT.
2. ATT is the attenuation referenced to the gain in f_c .

Out of band gain							
Test Path	Test Port	Offset (MHz)	Gain (dB)		Gain Limit (dB)	Verdict	
			Low edge	High edge			
DL	MT1	0.2	43.25	40.85	≤ 60	PASS	
		1	36.64	33.72	≤ 45	PASS	
UL	DT	0.2	33.86	36.27	≤ 60	PASS	
		1	29.04	31.39	≤ 45	PASS	



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16 Frequency Stability

Frequency stability vs temperature							
Test Path	Test Port	Test Channel	Test Voltage	Test Temp. (°C)	Freq. error (Hz)	Tolerance (ppm)	Verdict
DL	MT1	Middle	VN	+50	4.6	0.00522	PASS
				+40	2.4	0.00272	PASS
				+30	4.4	0.00499	PASS
				+20	3.6	0.00408	PASS
				+10	4.0	0.00454	PASS
				0	4.4	0.00499	PASS
				-10	4.0	0.00454	PASS
				-20	3.4	0.00386	PASS
				-30	3.3	0.00374	PASS
UL	DT	Middle	VN	+50	3.1	0.00371	PASS
				+40	4.1	0.00490	PASS
				+30	4.2	0.00502	PASS
				+20	2.8	0.00335	PASS
				+10	3.9	0.00466	PASS
				0	4.5	0.00538	PASS
				-10	4.5	0.00538	PASS
				-20	2.8	0.00335	PASS
				-30	2.8	0.00335	PASS

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Frequency stability vs voltage							
Test Path	Test Port	Test Channel	Test Temp.	Test Voltage	Freq. error (Hz)	Tolerance (ppm)	Verdict
DL	MT1	Middle	TN	VL	3.6	0.00408	PASS
				VN	3.6	0.00408	PASS
				VH	3.6	0.00408	PASS
UL	DT	Middle	TN	VL	2.8	0.00335	PASS
				VN	2.8	0.00335	PASS
				VH	2.8	0.00335	PASS

--End of Appendix--



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