



SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

EMC-ARF-05 Rev 1.1

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FCC ID: PX8CFNG-MRUC

Appendix -

Test Data and Result for report

GZCR241100135107 (A)

(For Lower 700MHz)



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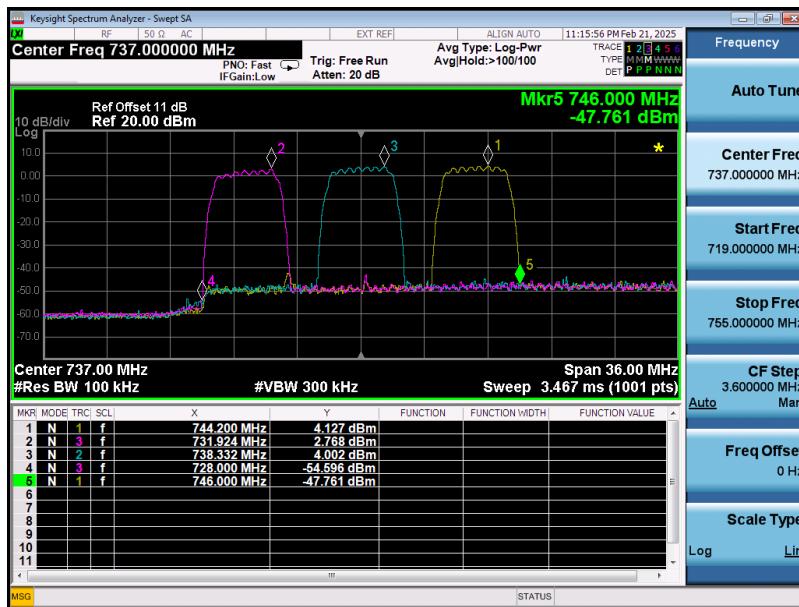
SGS-CSTC Standards Technical Services Co., Ltd.
Guangzhou Branch Testing Center EEC Laboratory

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中国·广东·广州高新技术产业开发区科学城科珠路198号 邮编: 510663 t (86-20) 82155555 sgs.china@sgs.com

1 Authorized frequency band verification

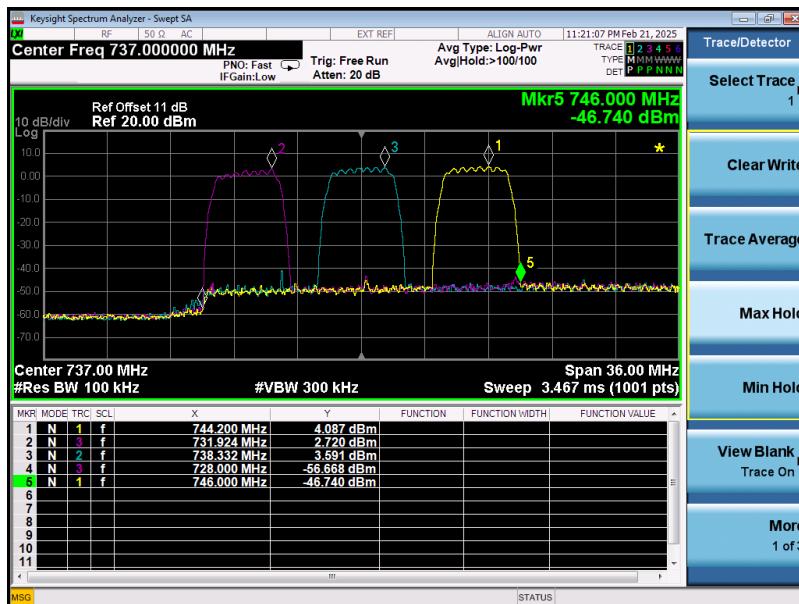
Authorized frequency band verification

DL_MT1



$f_0=731.924\text{MHz}$, 738.332MHz , 744.20MHz for lowest, middle, highest passband

DL_MT2



$f_0=731.924\text{MHz}$, 738.332MHz , 744.20MHz for lowest, middle, highest passband

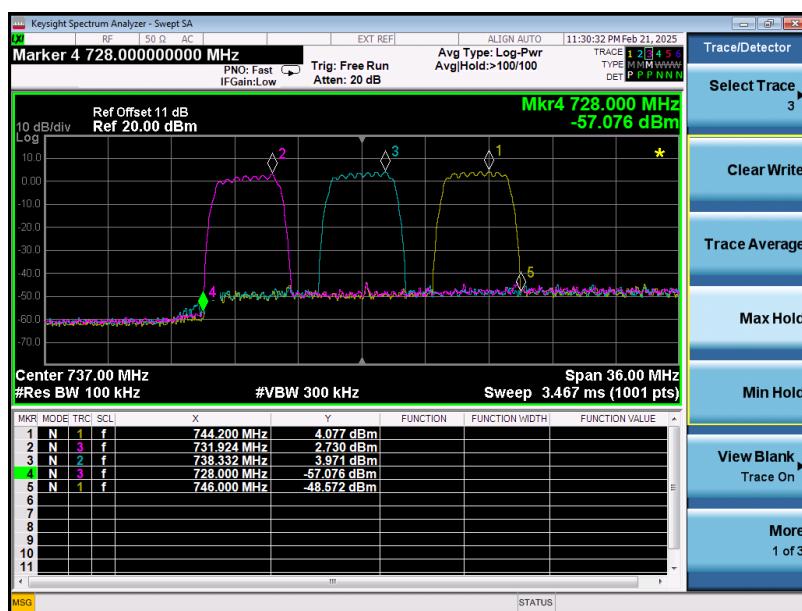


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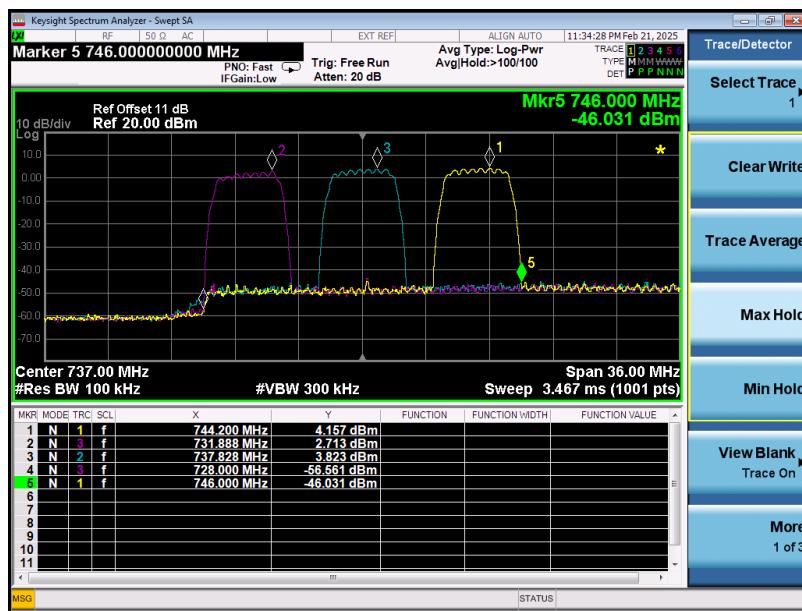
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Authorized frequency band verification

DL_MT3

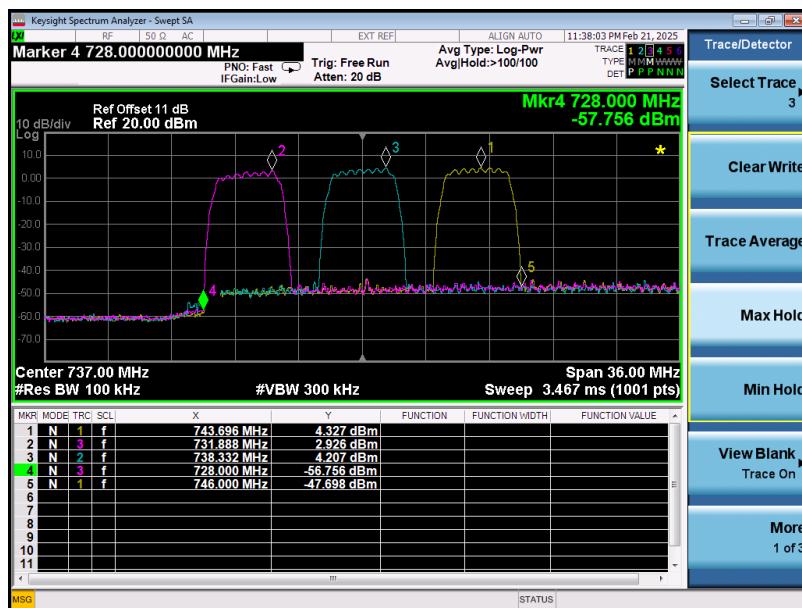
f₀=731.924MHz, 738.332MHz, 744.20MHz for lowest, middle, highest passband

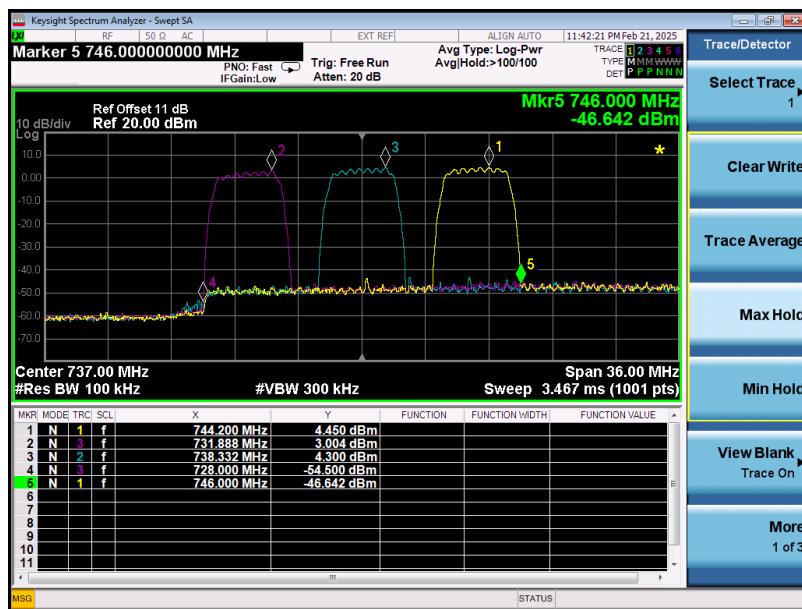
DL_MT4

f₀=731.888MHz, 737.828MHz, 744.20MHz for lowest, middle, highest passband

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Authorized frequency band verification
DL_MT5

 $f_0 = 731.888 \text{ MHz}, 738.332 \text{ MHz}, 743.696 \text{ MHz}$ for lowest, middle, highest passband

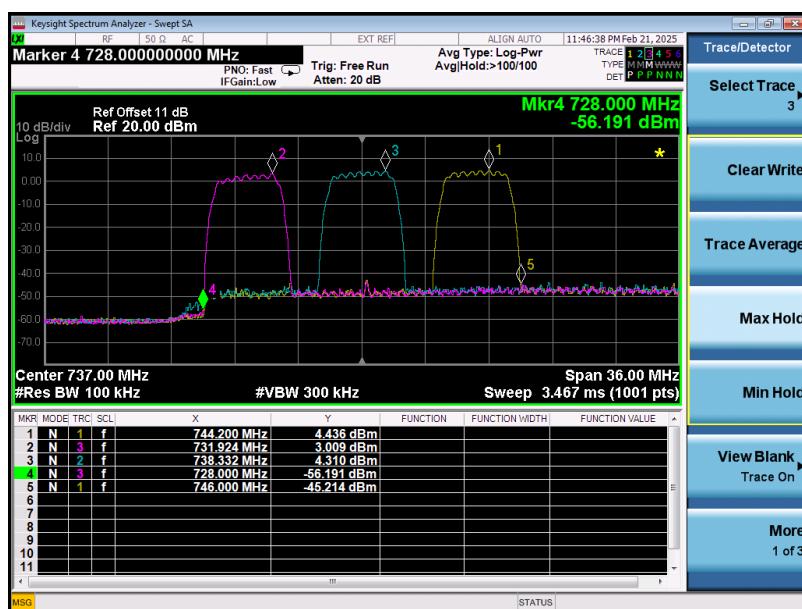
DL_MT6

 $f_0 = 731.924 \text{ MHz}, 738.332 \text{ MHz}, 744.20 \text{ MHz}$ for lowest, middle, highest passband


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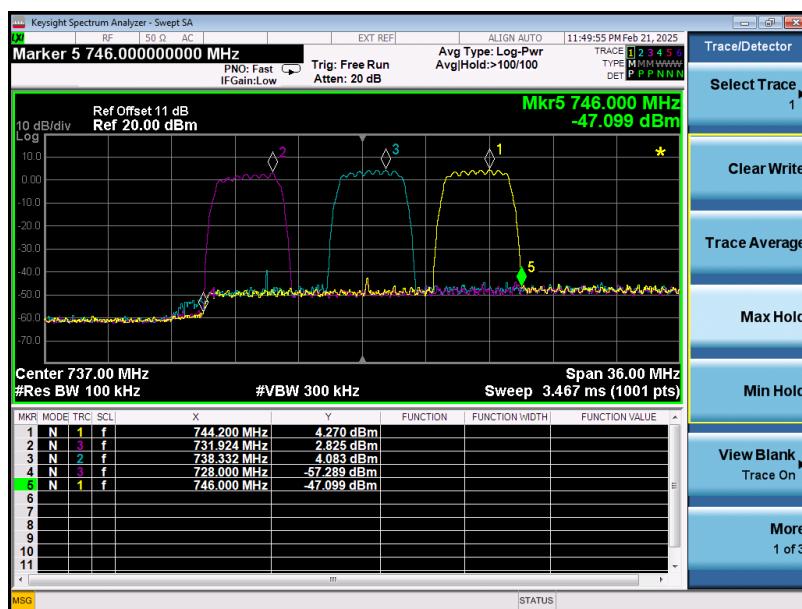
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Authorized frequency band verification

DL_MT7

f₀=731.924MHz, 738.332MHz, 744.20MHz for lowest, middle, highest passband

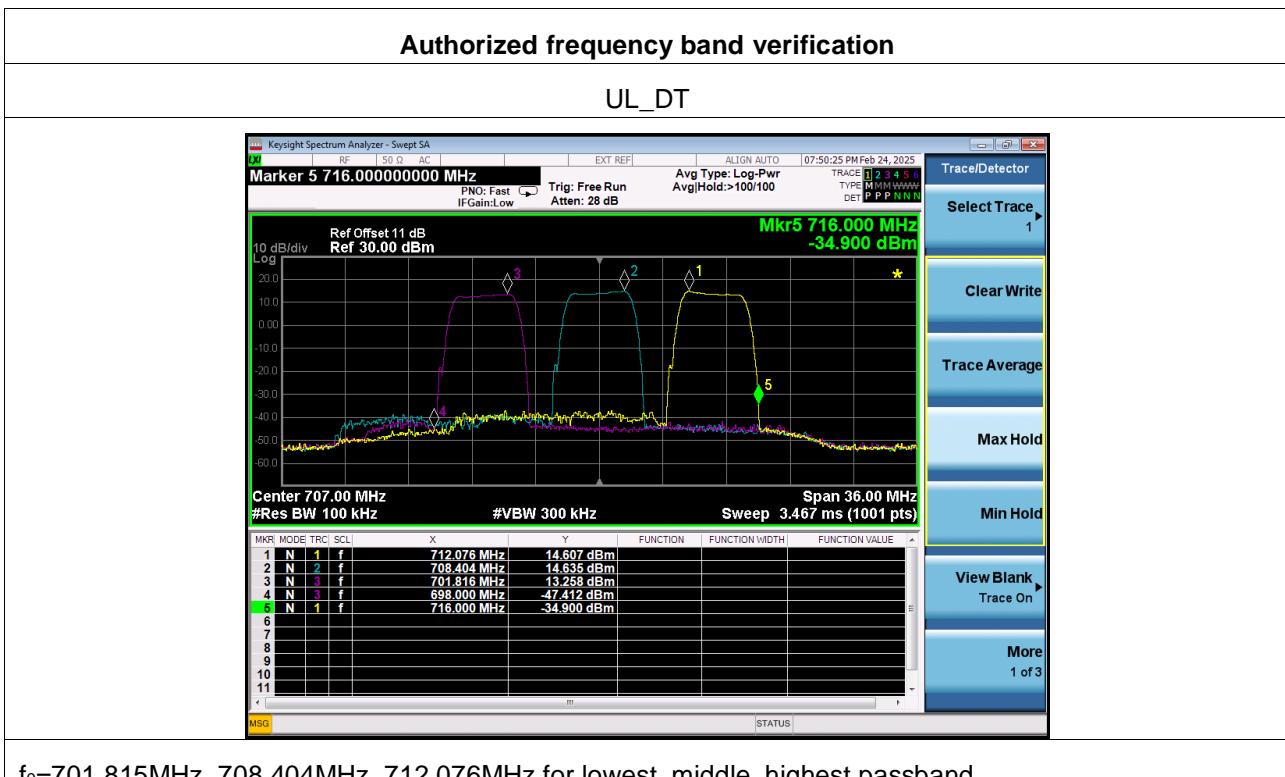
DL_MT8

f₀=731.924MHz, 738.332MHz, 744.20MHz for lowest, middle, highest passband

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2 Authorized CMRS provider test

Authorized CMRS provider test	
Authorized CMRS Provider ID	Non-authorized CMRS Provider ID
MCC/MCN: 310410	MCC/MCN: 310111
	MCC/MCN: 311222

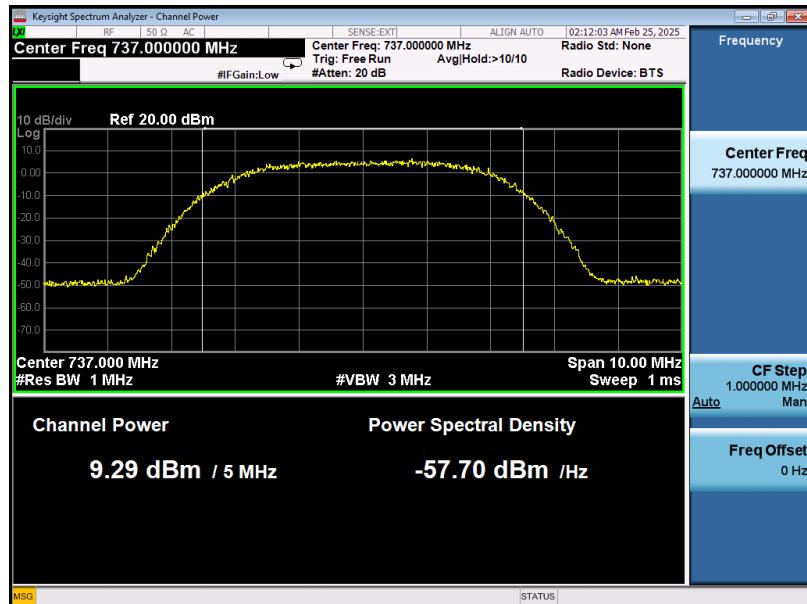
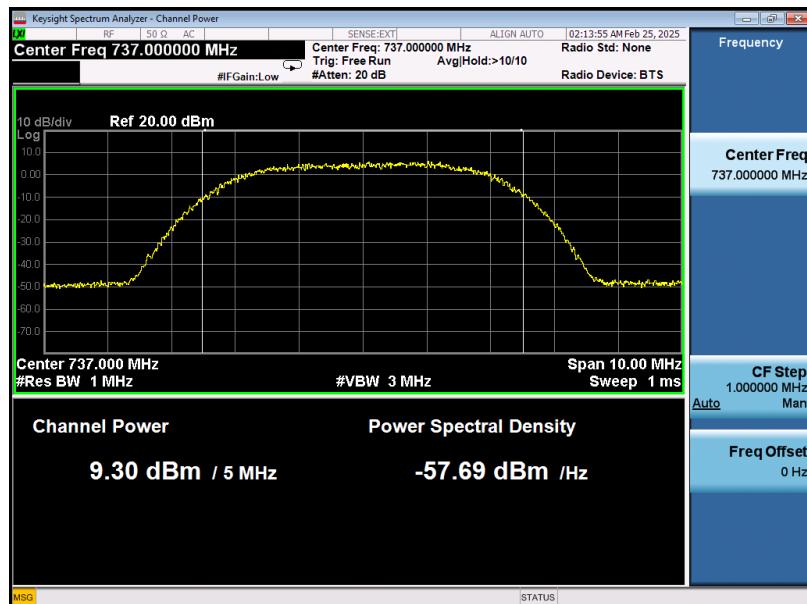
Remark:

1. The EUT can be set authorized CMRS Provider IDs via local WEB. For authorized CMRS Provider test, the EUT was assigned a temporary authorized CMRS Provider ID.
2. One authorized CMRS Provider signal and two non-authorized CMRS Provider signals were verified as this table.



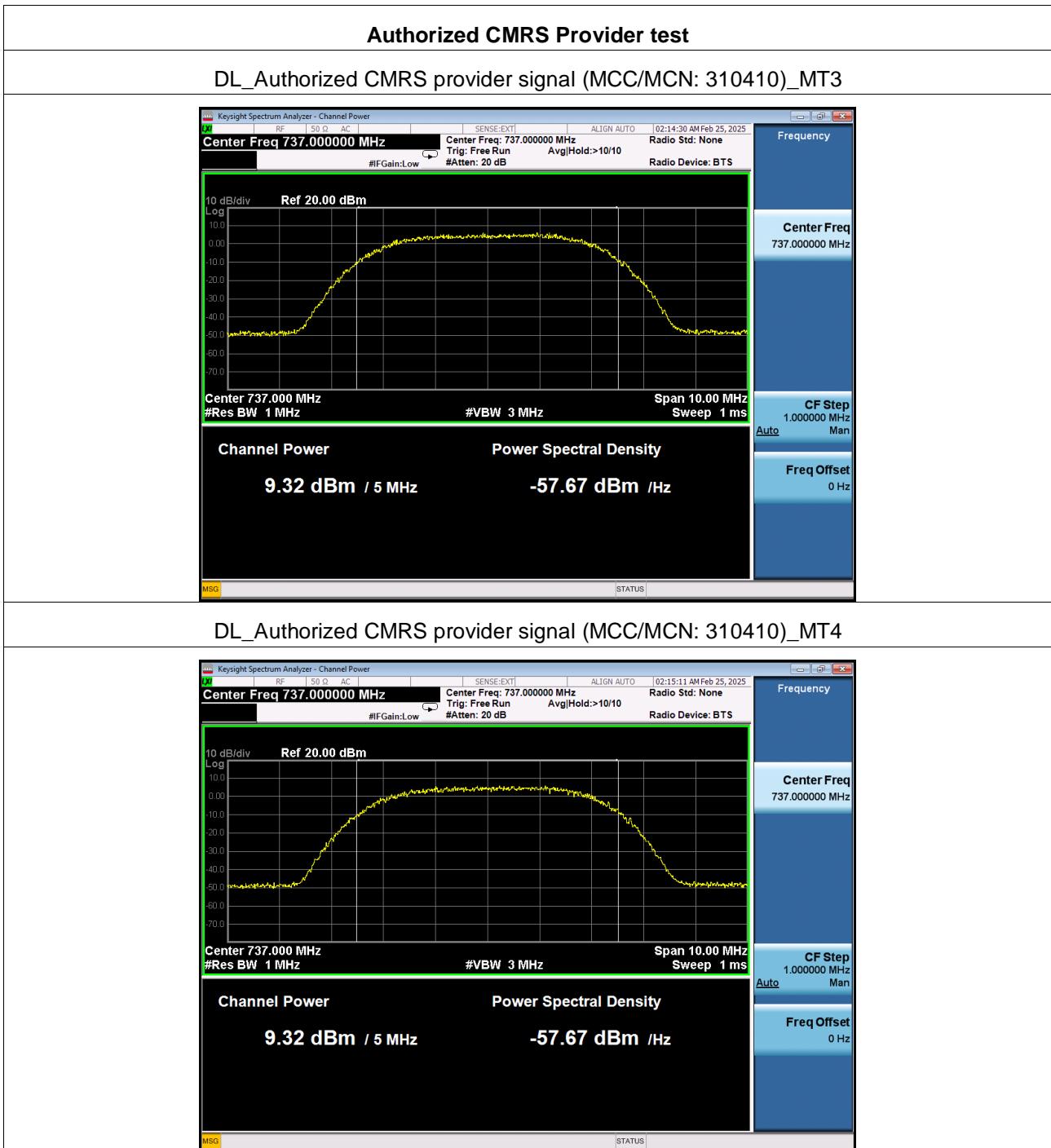
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Authorized CMRS Provider test**DL_Authorized CMRS provider signal (MCC/MCN: 310410)_MT1****DL_Authorized CMRS provider signal (MCC/MCN: 310410)_MT2**

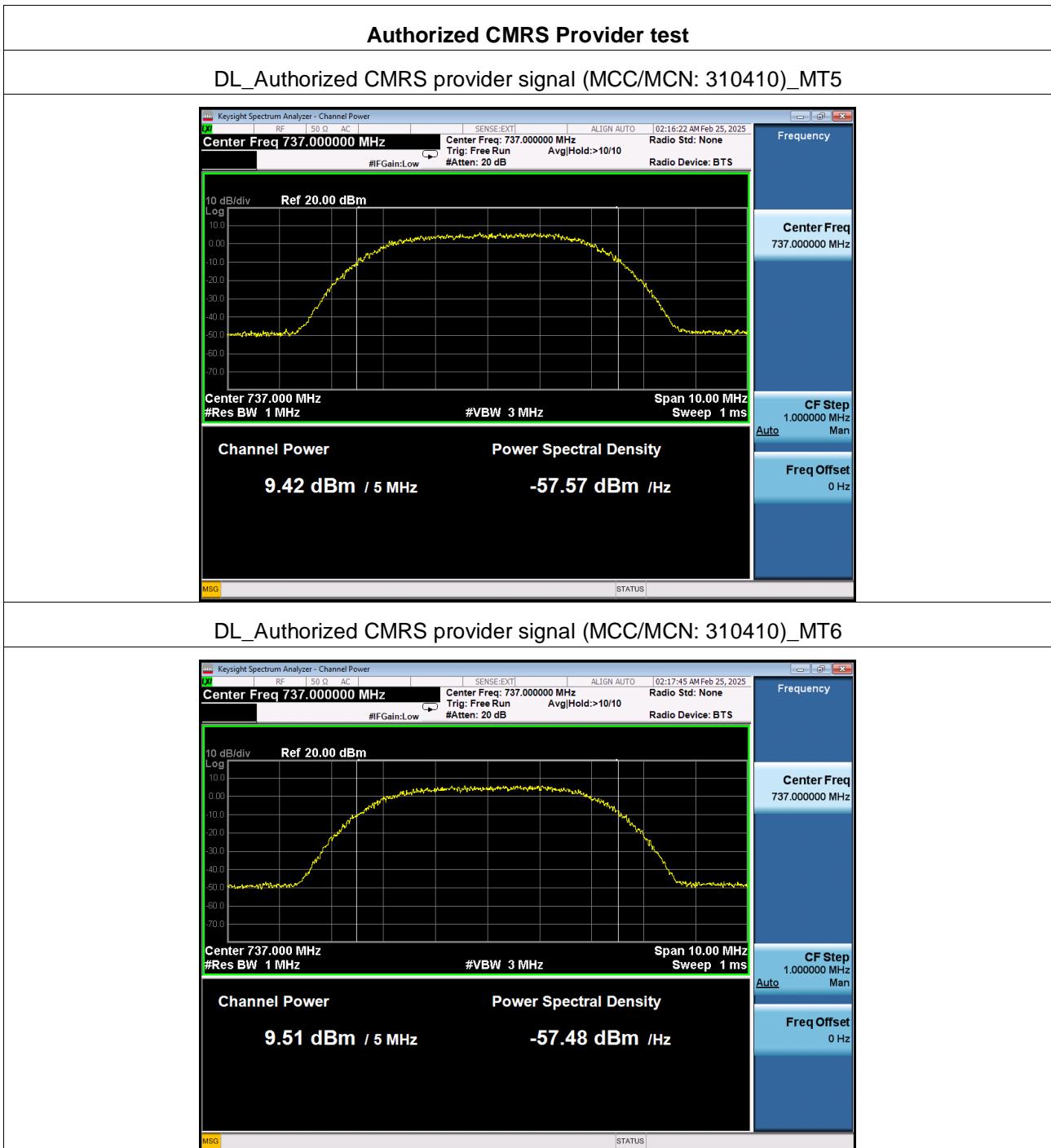
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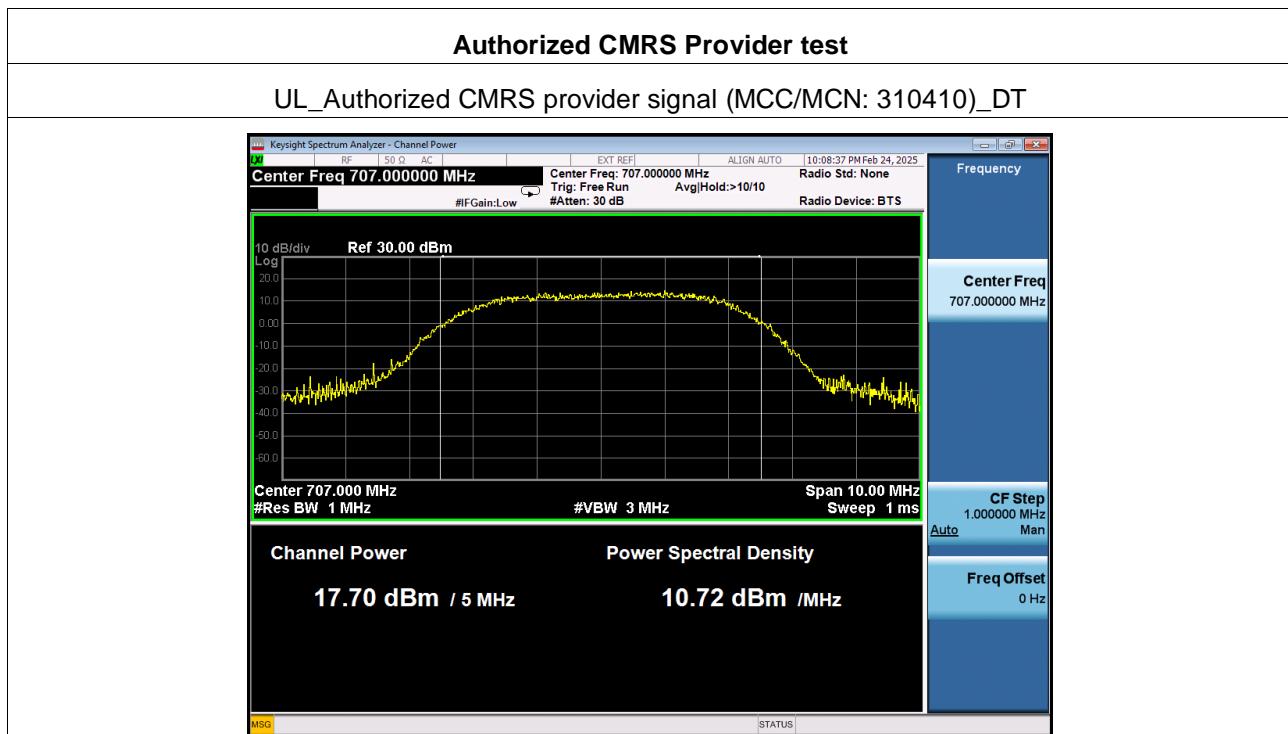
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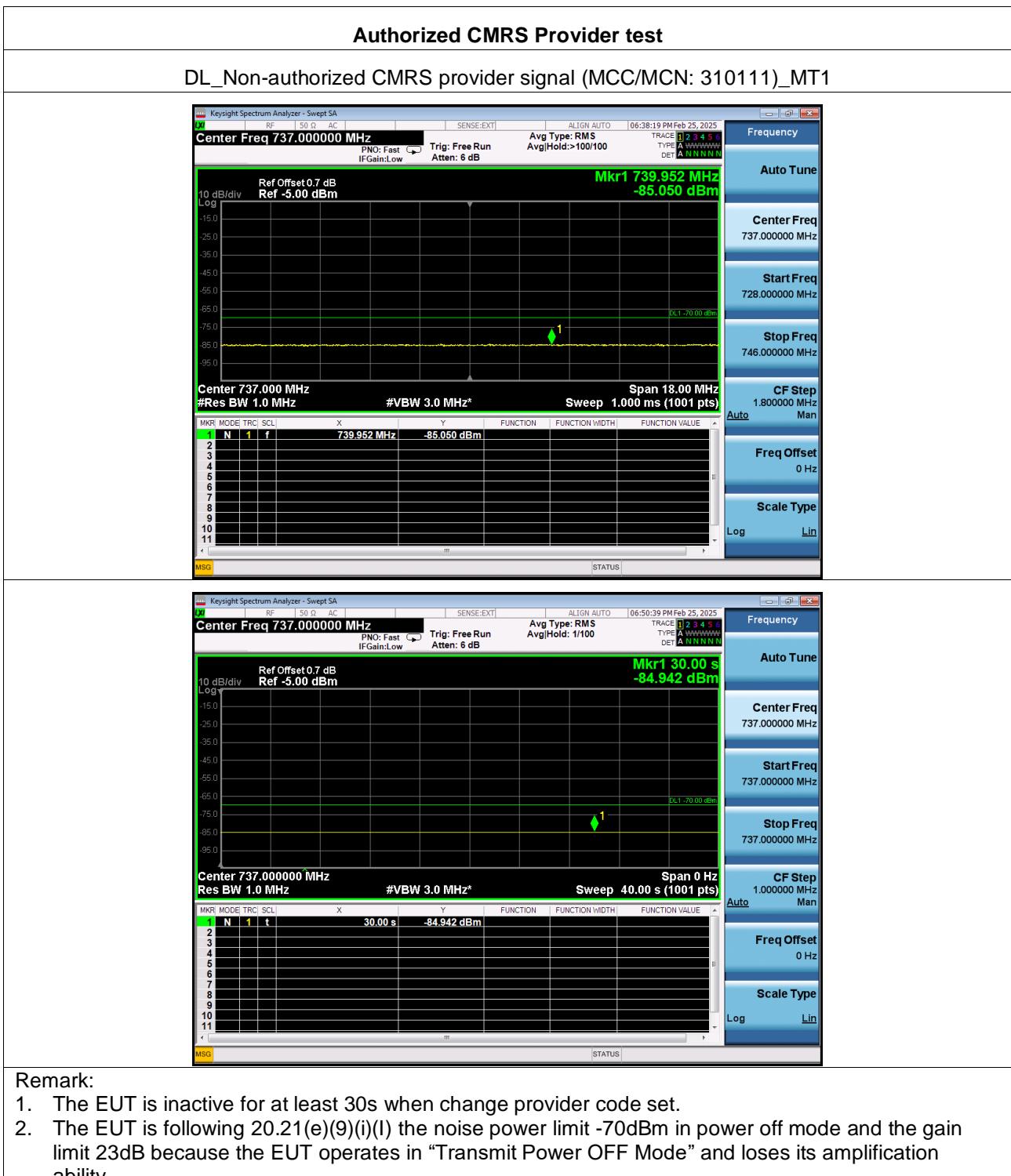
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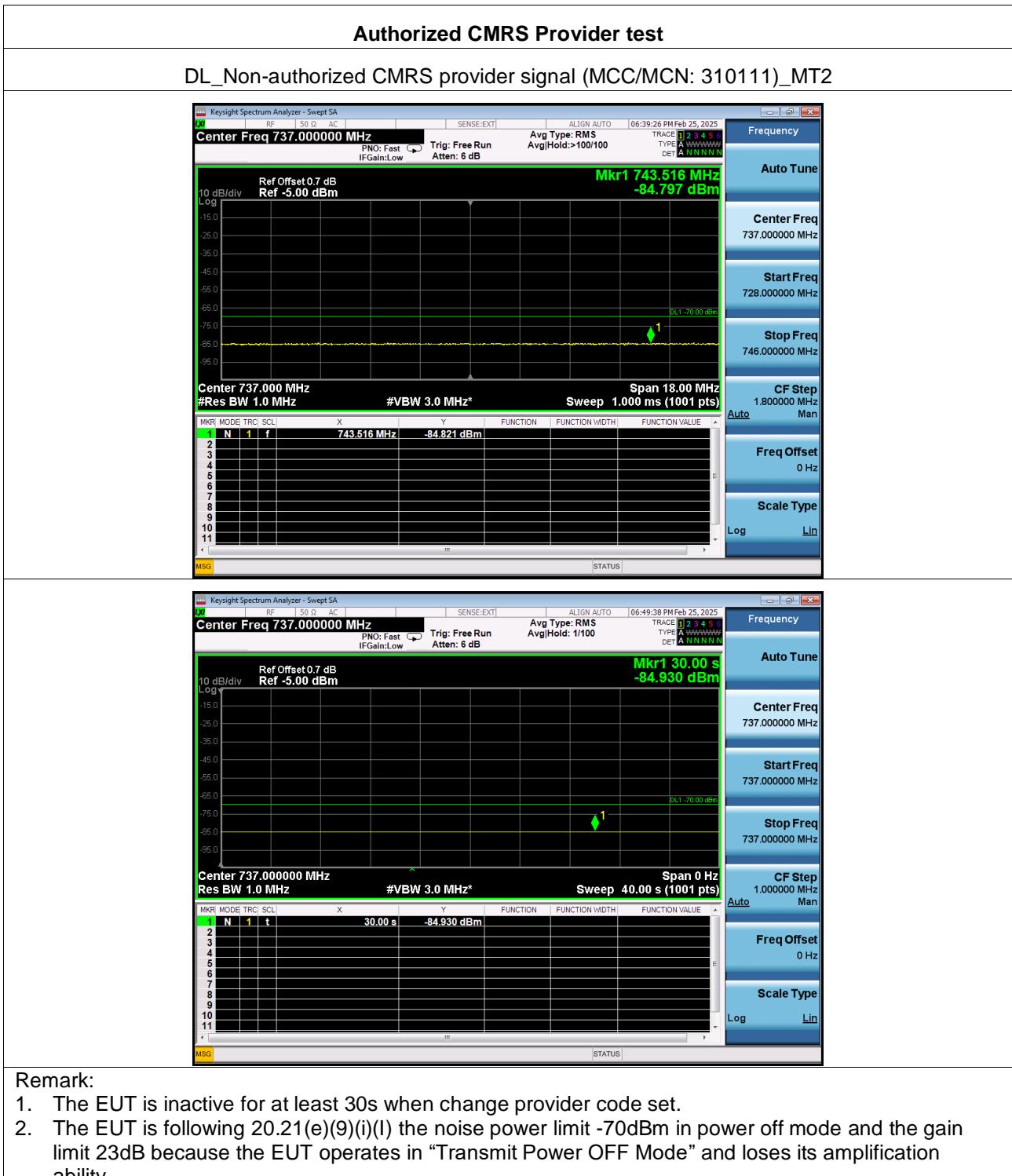

Remark:

1. The EUT is inactive for at least 30s when change provider code set.
2. The EUT is following 20.21(e)(9)(i)(I) the noise power limit -70dBm in power off mode and the gain limit 23dB because the EUT operates in "Transmit Power OFF Mode" and loses its amplification ability.



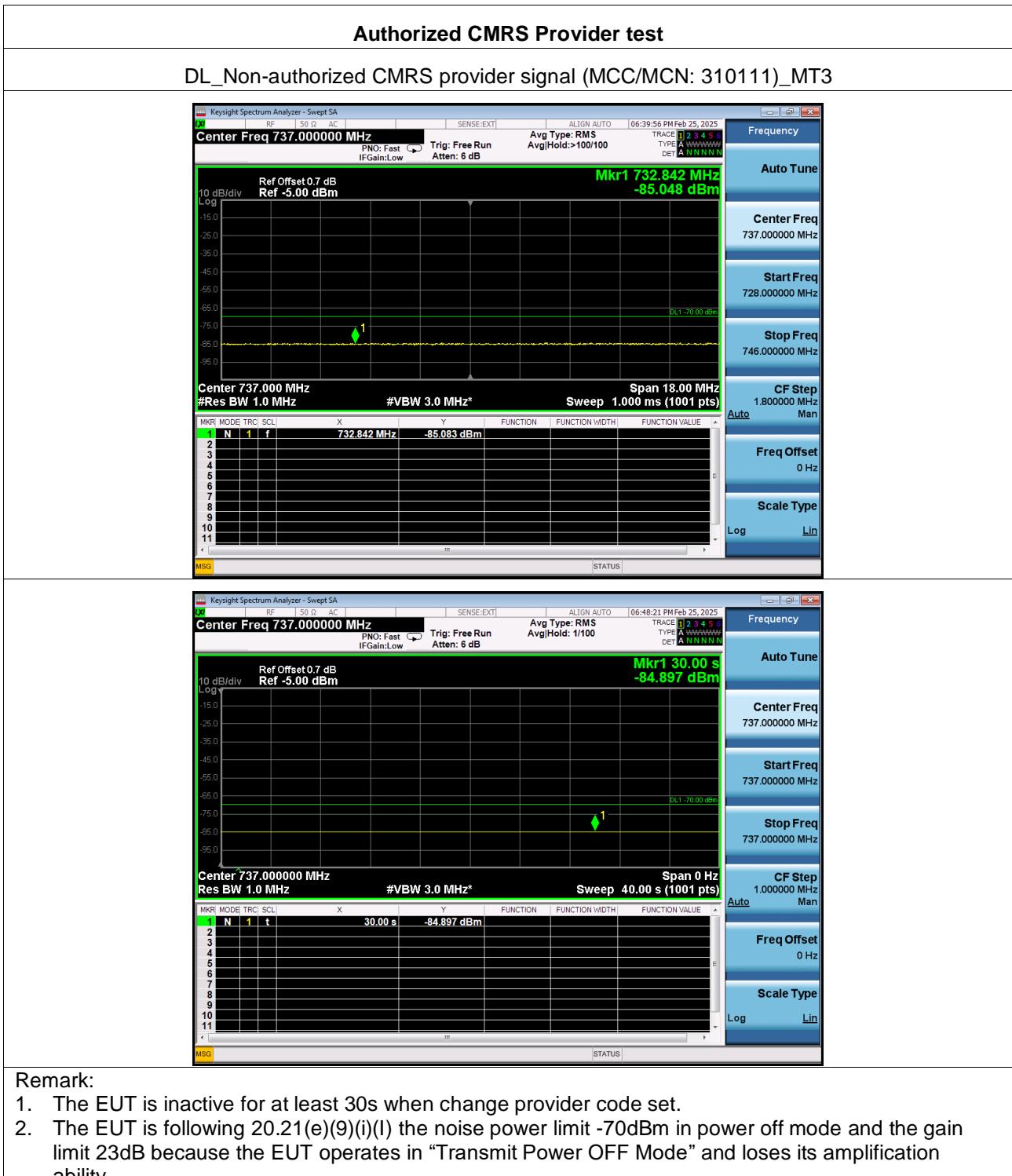
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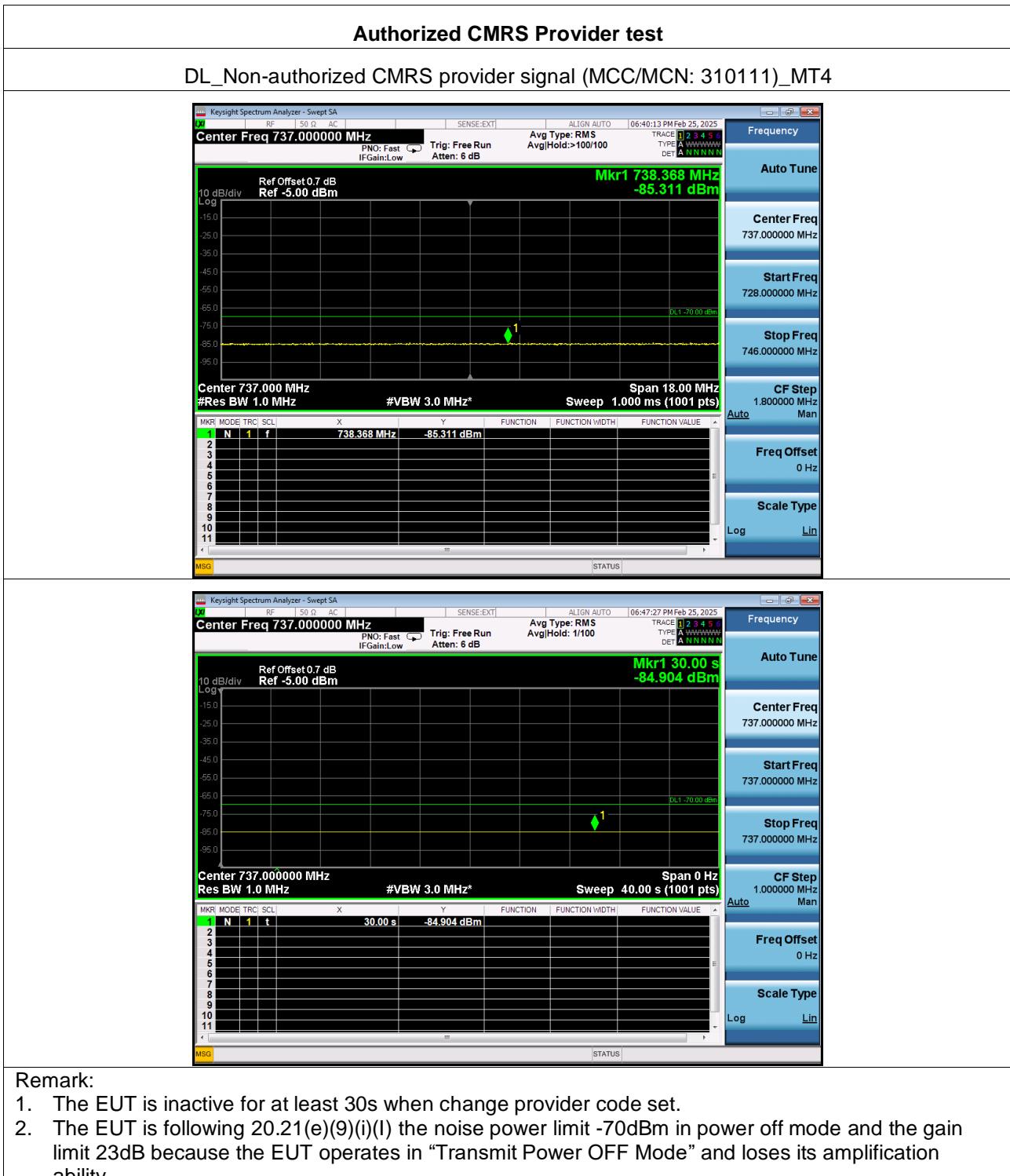
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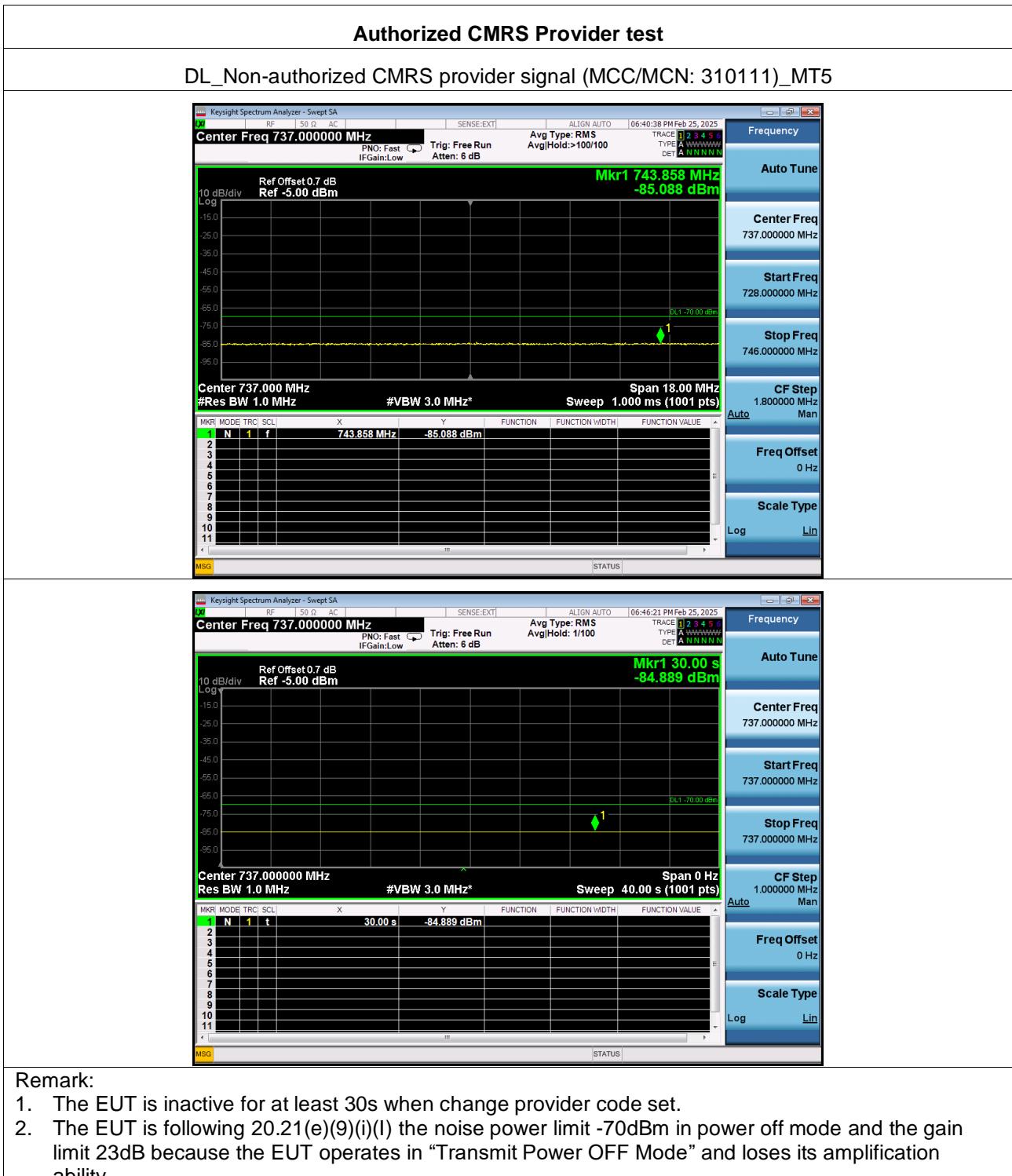
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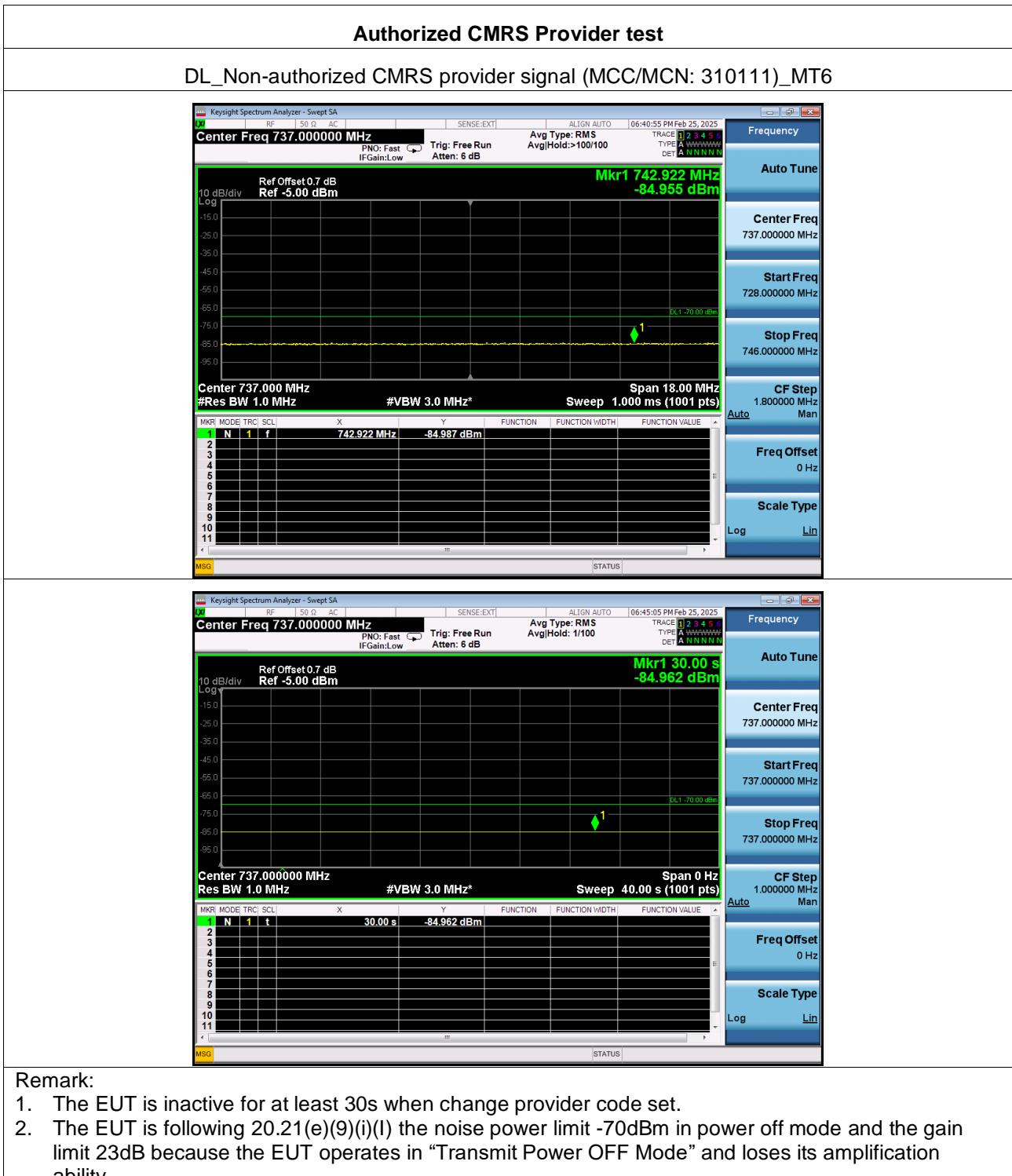

Remark:

1. The EUT is inactive for at least 30s when change provider code set.
2. The EUT is following 20.21(e)(9)(i)(I) the noise power limit -70dBm in power off mode and the gain limit 23dB because the EUT operates in "Transmit Power OFF Mode" and loses its amplification ability.



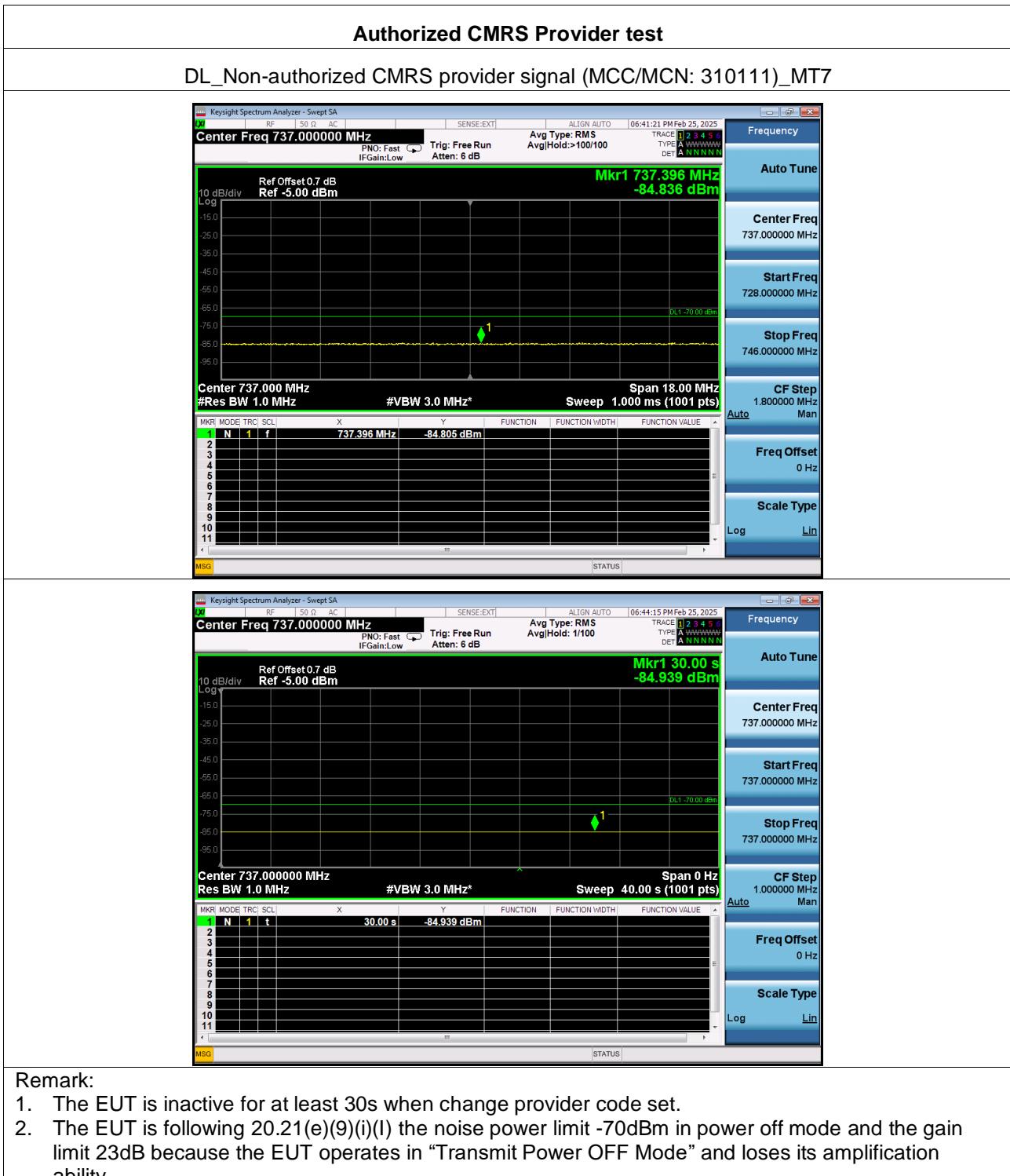
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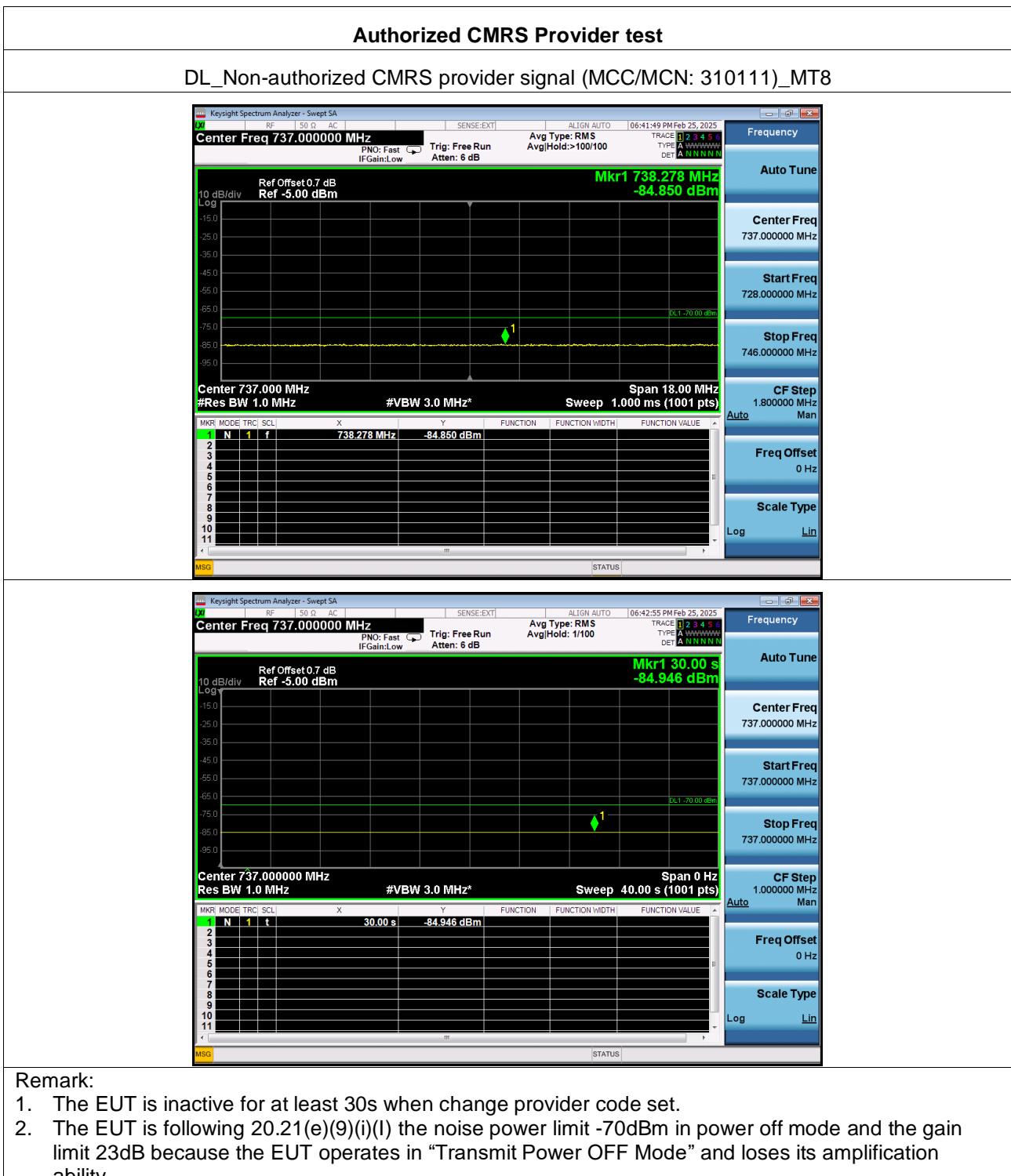

Remark:

1. The EUT is inactive for at least 30s when change provider code set.
2. The EUT is following 20.21(e)(9)(i)(I) the noise power limit -70dBm in power off mode and the gain limit 23dB because the EUT operates in "Transmit Power OFF Mode" and loses its amplification ability.



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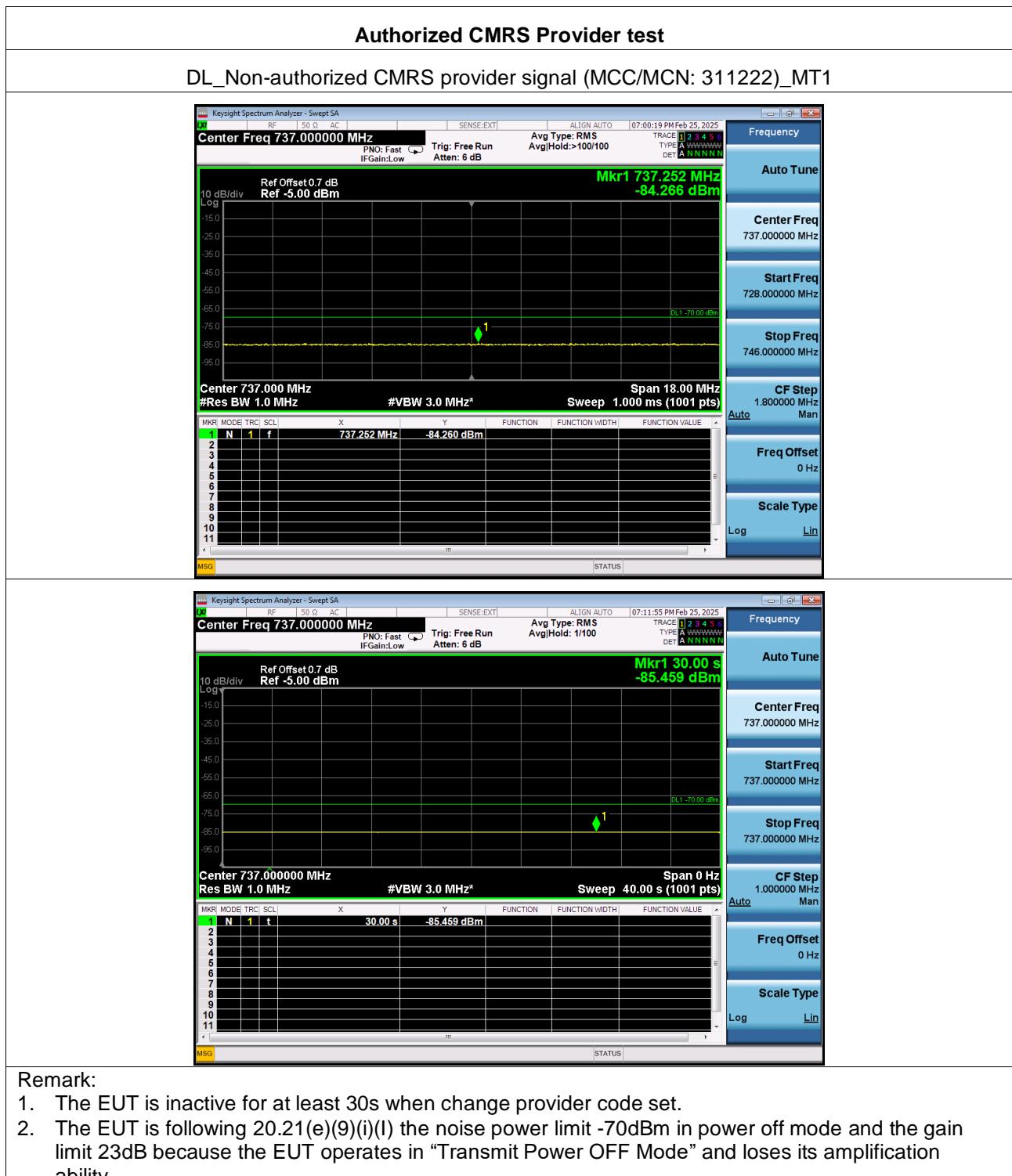

Remark:

1. The EUT is inactive for at least 30s when change provider code set.
2. The EUT is following 20.21(e)(9)(i)(I) the noise power limit -70dBm in power off mode and the gain limit 23dB because the EUT operates in "Transmit Power OFF Mode" and loses its amplification ability.



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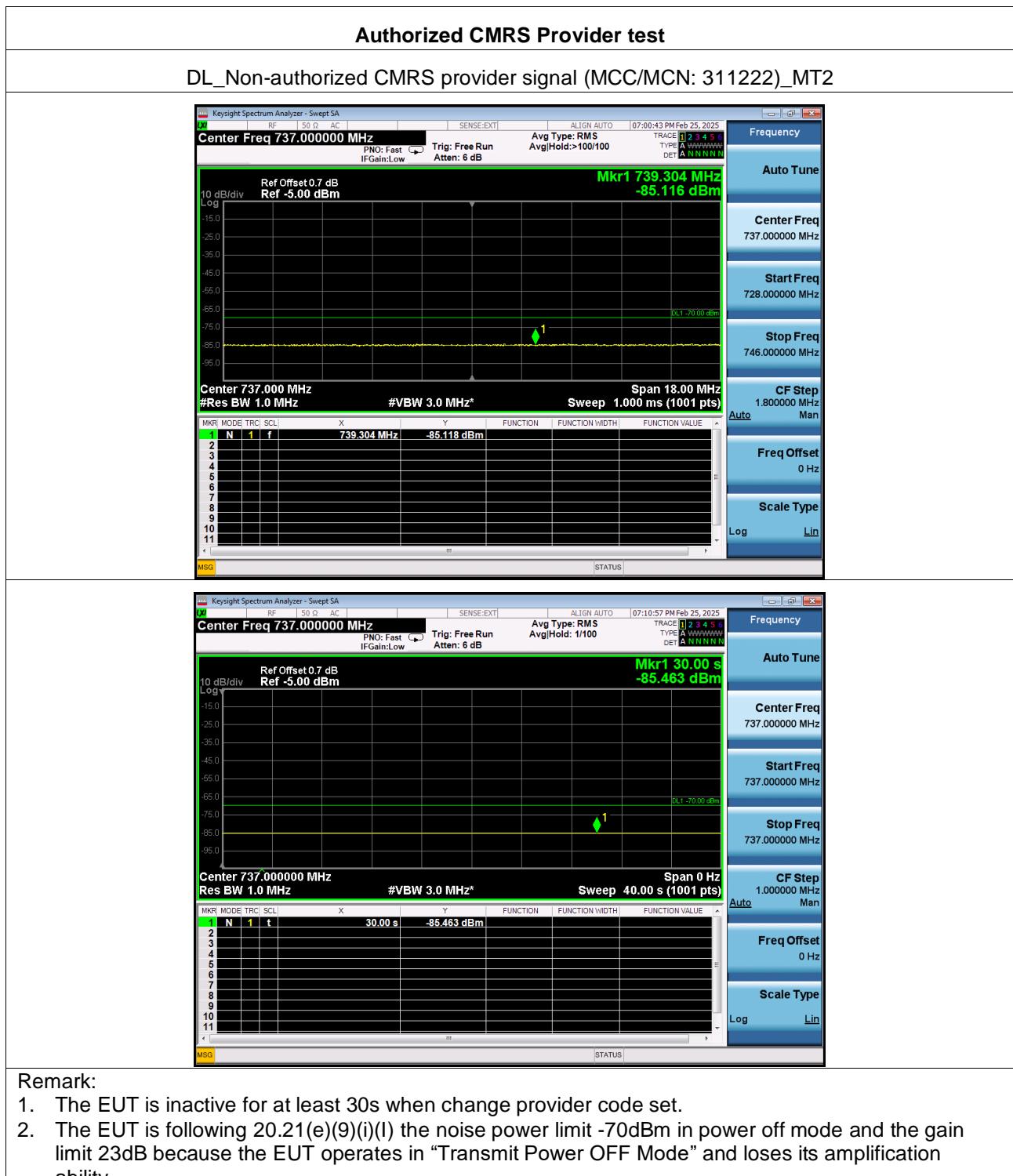
**Remark:**

1. The EUT is inactive for at least 30s when change provider code set.
2. The EUT is following 20.21(e)(9)(i)(I) the noise power limit -70dBm in power off mode and the gain limit 23dB because the EUT operates in "Transmit Power OFF Mode" and loses its amplification ability.



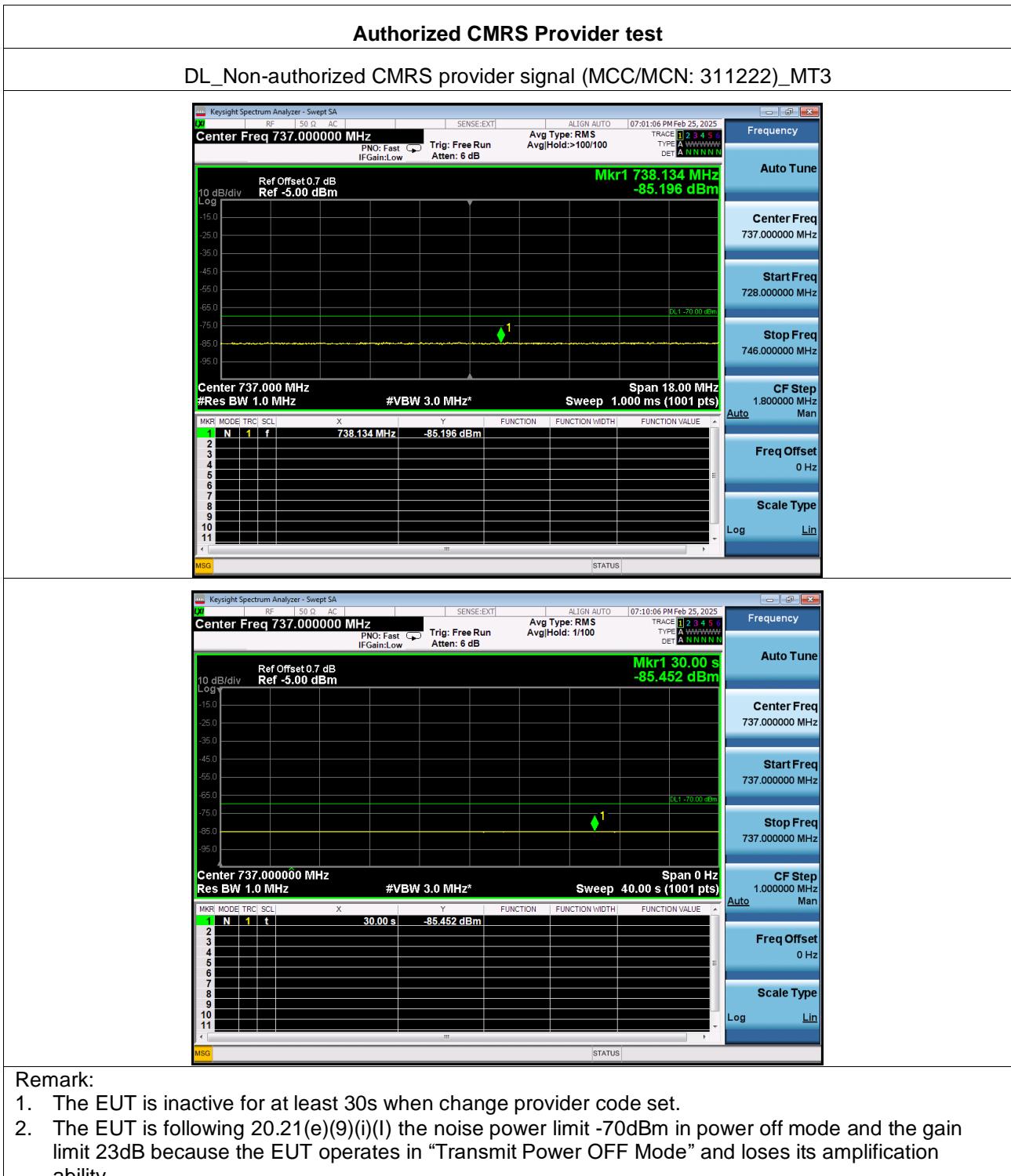
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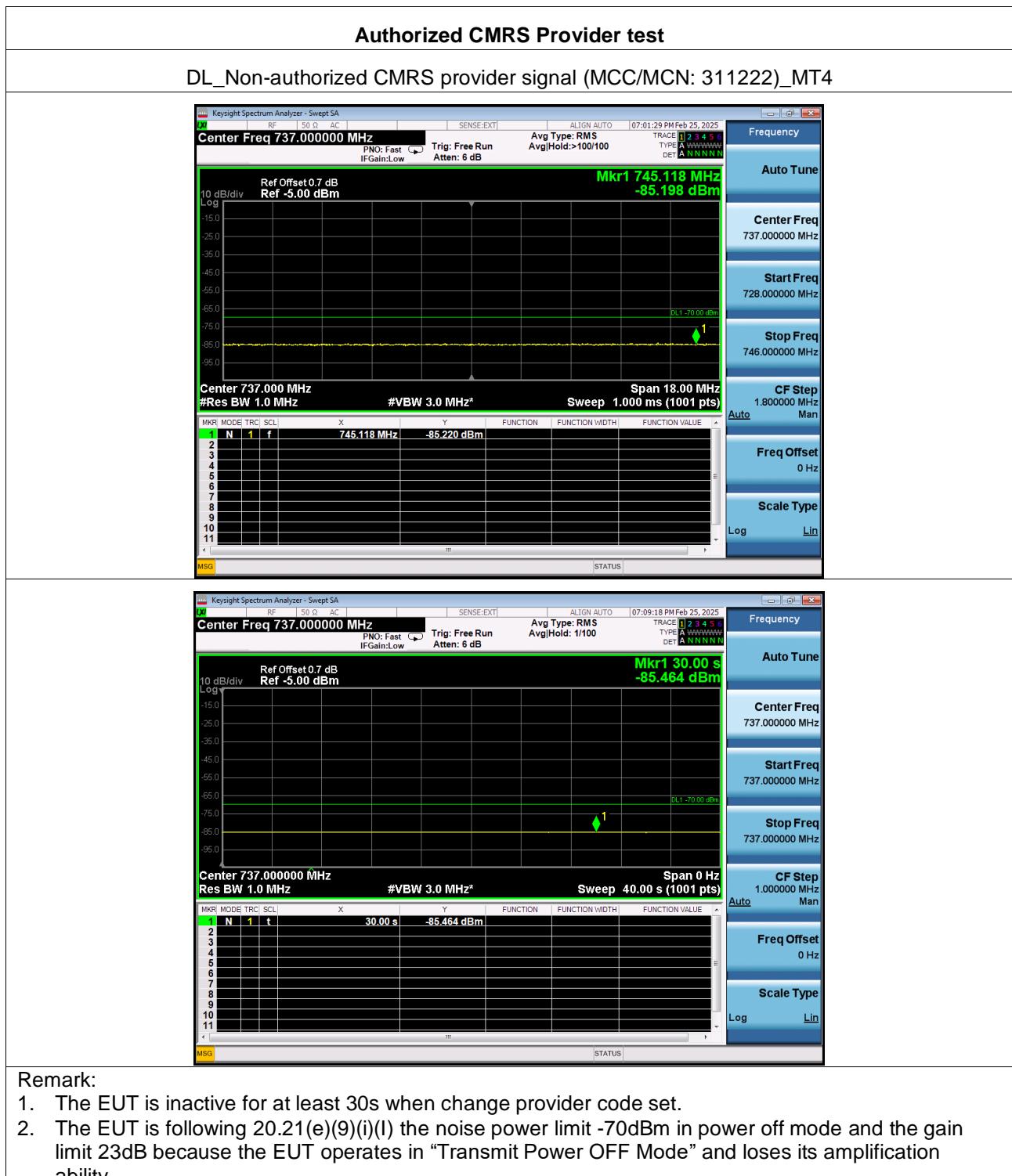
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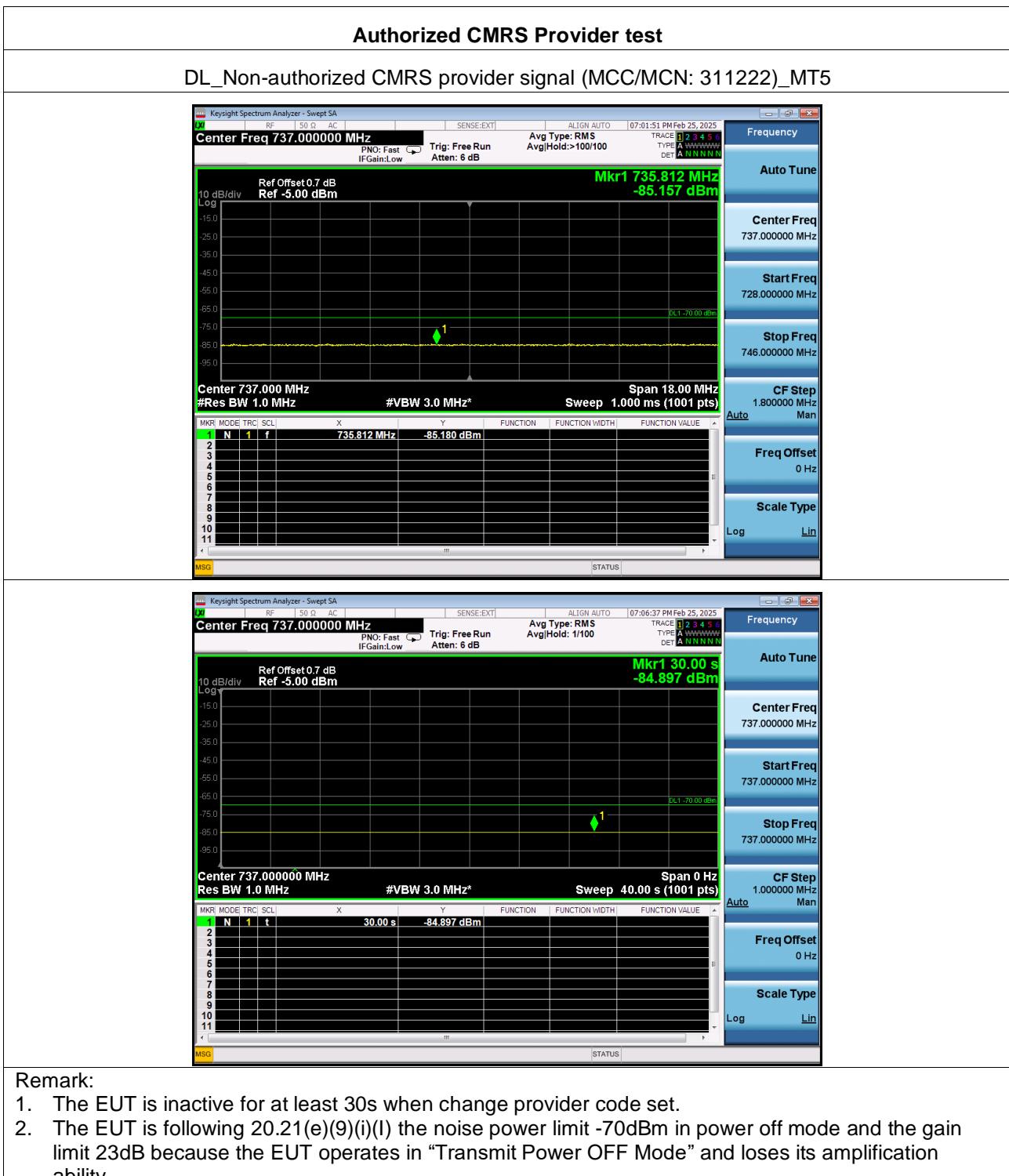
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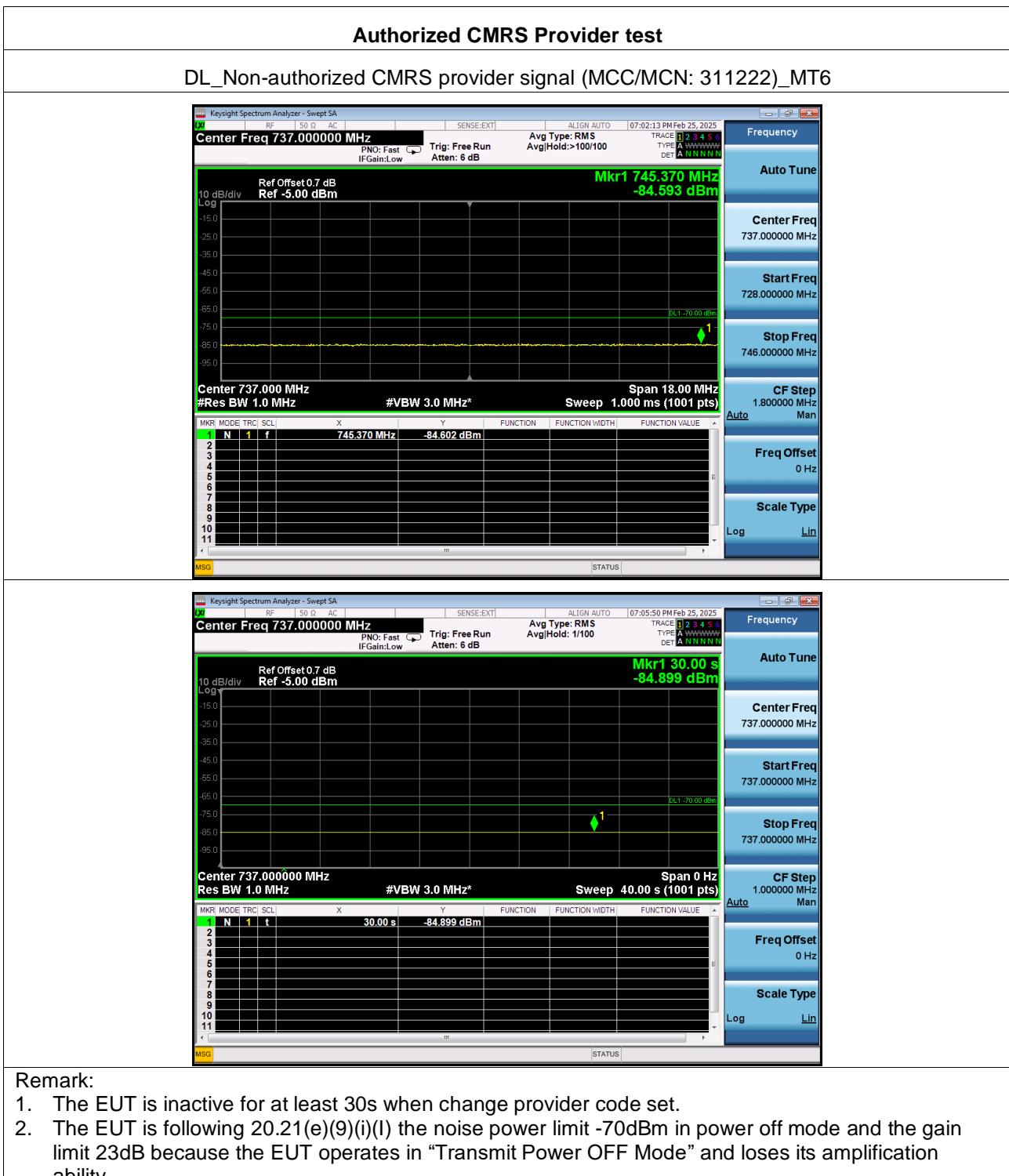
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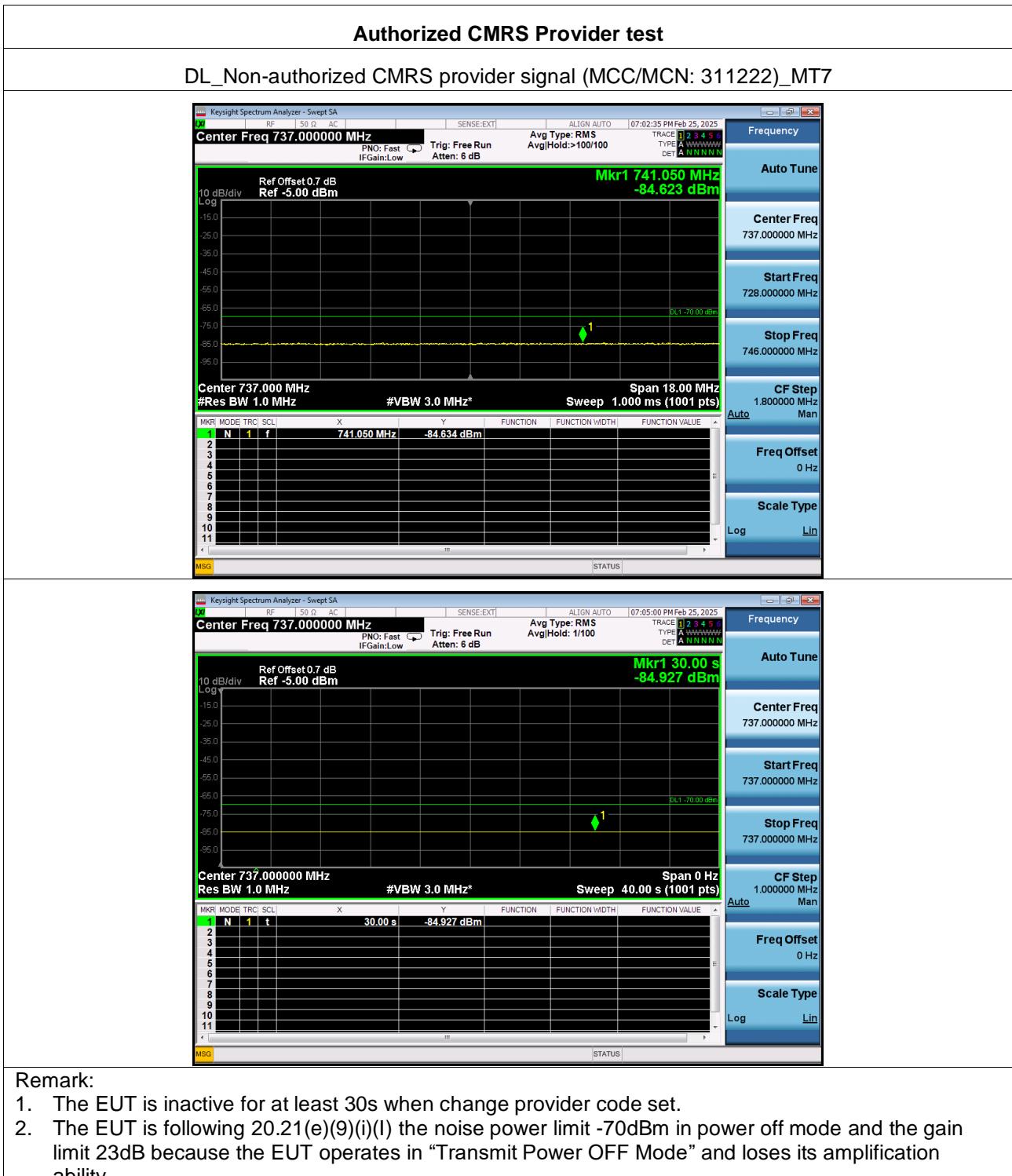
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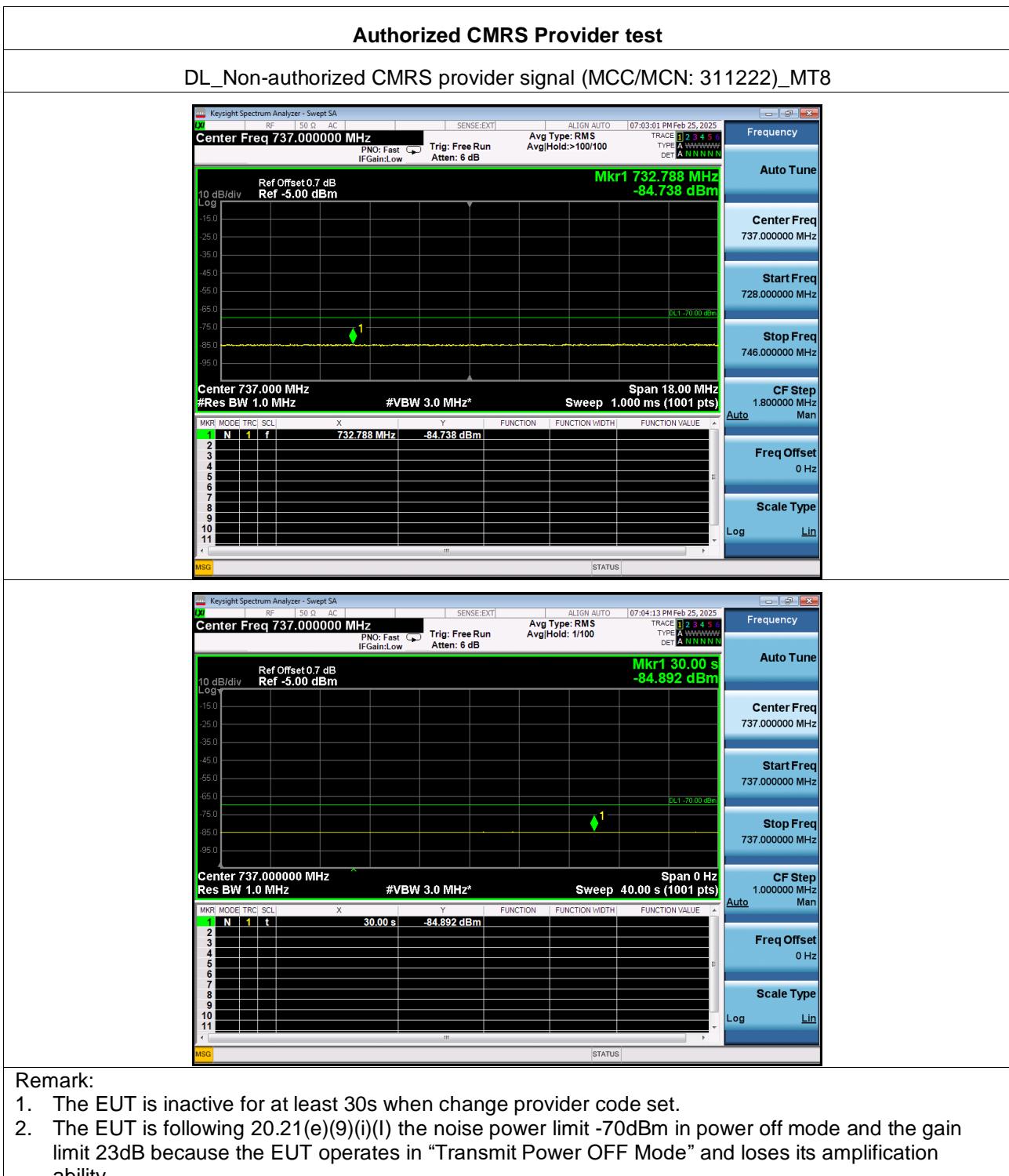
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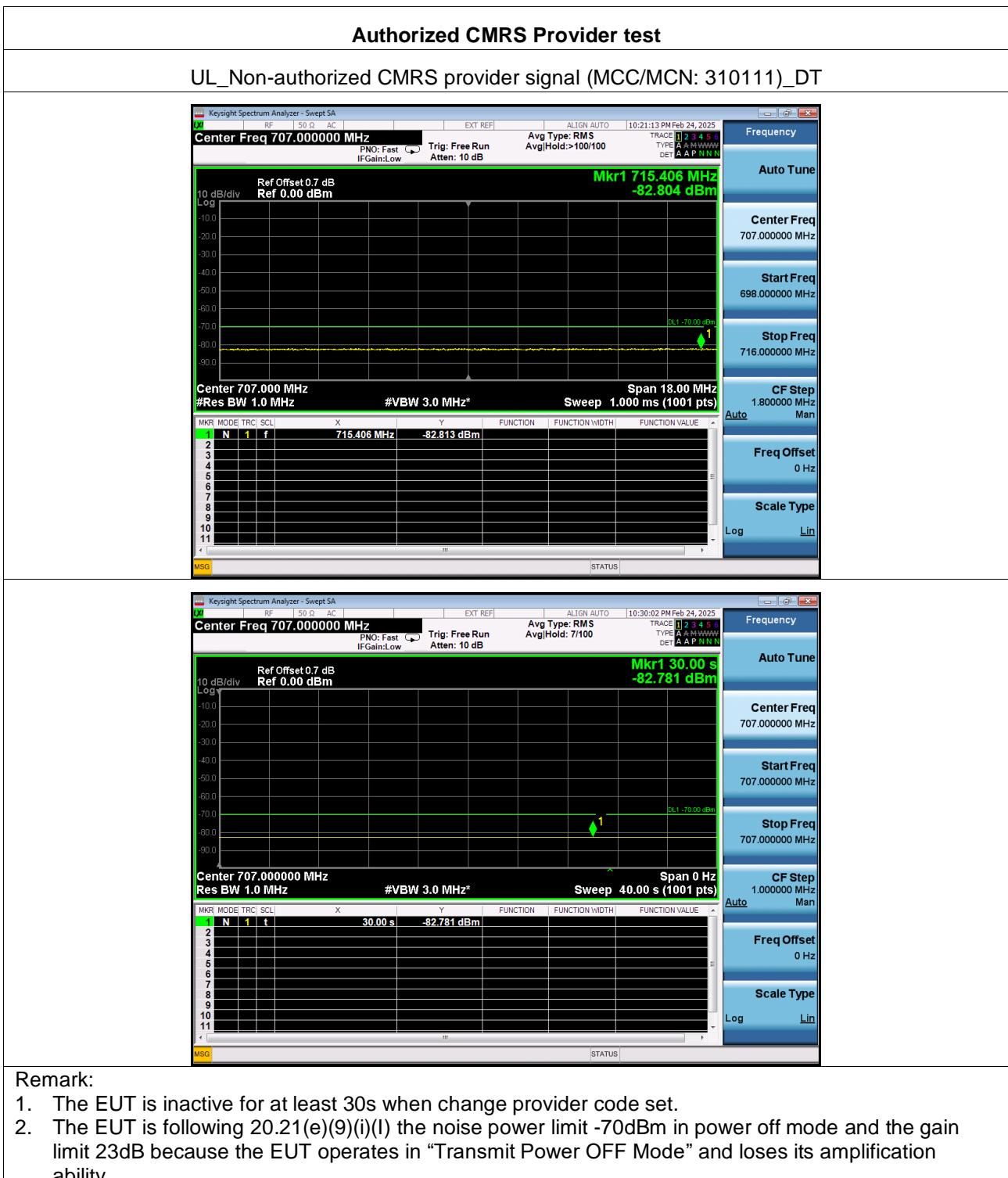
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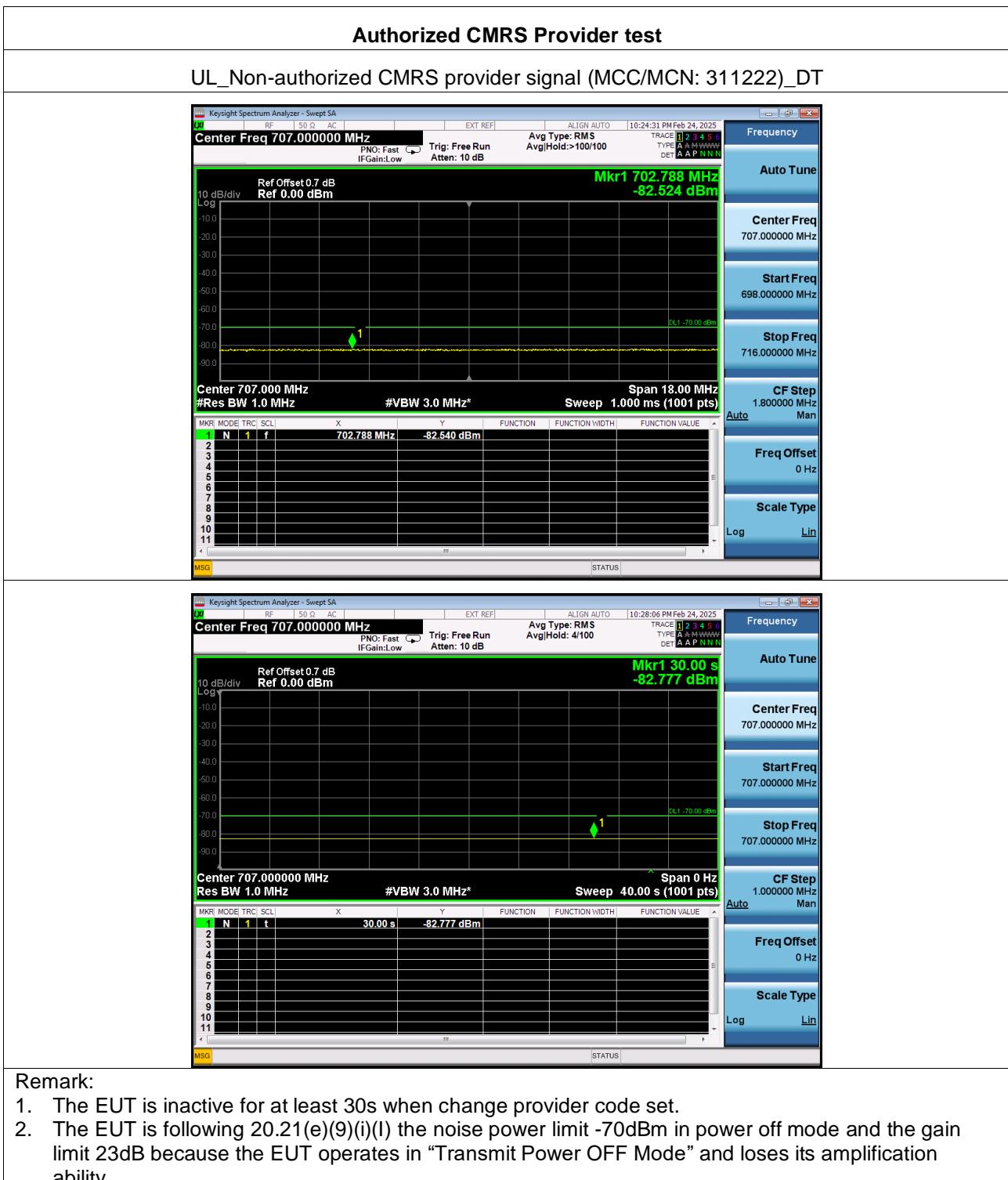
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3 Maximum power

Test Path	Test Port	Signal Type	Maximum Output Power			Limit (dBm)		Verdict
			Input Signal Level (dBm)	Conducted Output Power (dBm)	ERP (dBm)	Lower	Upper	
DL	MT1	AWGN	-60.5	9.33	9.33	/ 10		PASS
		GSM	-61.0	9.51	9.51			PASS
	MT2	AWGN	-60.5	9.30	9.30			PASS
		GSM	-61.0	9.36	9.36			PASS
	MT3	AWGN	-60.5	9.35	9.35			PASS
		GSM	-61.0	9.55	9.55			PASS
	MT4	AWGN	-60.5	9.32	9.32			PASS
		GSM	-61.0	9.49	9.49			PASS
	MT5	AWGN	-60.5	9.44	9.44			PASS
		GSM	-61.0	9.61	9.61			PASS
	MT6	AWGN	-60.5	9.56	9.56			PASS
		GSM	-61.0	9.70	9.70			PASS
	MT7	AWGN	-60.5	9.41	9.41			PASS
		GSM	-61.0	9.57	9.57			PASS
	MT8	AWGN	-60.5	9.24	9.24			PASS
		GSM	-61.0	9.40	9.40			PASS
UL	DT	AWGN	-46.8	17.76	17.76	17	30	PASS
		GSM	-47.2	18.01	18.01			PASS

Remark:

1. The test frequency f_0 was determined in Authorized frequency band verification test in this report.
2. The input signal level is pre-AGC (just below the AGC threshold).
3. ERP = Conducted Output Power+ Antenna Gain+ Cable Loss, according to the declaration from the manufacturer, the antenna gain is 9dBi and the cable loss is -9dB.
4. The frequency f_0 with the highest power level in each operational band used for testing the max output power.
5. For downlink, each server port was tested independently, and the summation of power test data across all server ports is not required because the EUT ONLY allow installation with multiple server-port antennas providing coverage to different areas within a building declared from the manufacturer.



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Maximum transmitter test input levels					
Test Path	Test Port	Signal Type	Input Power (dBm)	Conducted output power (dBm)	Verdict
DL	MT1	AWGN	-30.3	9.21	PASS
		GSM	-30.8	9.45	PASS
	MT2	AWGN	-30.3	9.20	PASS
		GSM	-30.8	9.21	PASS
	MT3	AWGN	-30.3	9.30	PASS
		GSM	-30.8	9.43	PASS
	MT4	AWGN	-30.3	9.25	PASS
		GSM	-30.8	9.41	PASS
	MT5	AWGN	-30.3	9.35	PASS
		GSM	-30.8	9.51	PASS
	MT6	AWGN	-30.3	9.50	PASS
		GSM	-30.8	9.58	PASS
	MT7	AWGN	-30.3	9.31	PASS
		GSM	-30.8	9.48	PASS
	MT8	AWGN	-30.3	9.21	PASS
		GSM	-30.8	9.32	PASS
UL	DT	AWGN	-16.2	17.71	PASS
		GSM	-16.8	17.89	PASS

Remark:

1. For downlink, the EUT went into shutdown mode at the maximum input level (-20dBm) indicated in 5.5 of KDB 935210 D04. The test data presented on the table is at an input level 1dB less than that found to cause the shutdown, where the input power is much greater than 10dB above AGC.
2. For uplink, the EUT went into shutdown mode at the maximum input level (0dBm) indicated in 5.5 of KDB 935210 D04. The test data presented on the table is at an input level 1dB less than that found to cause the shutdown, where the input power is much greater than 10dB above AGC.
3. For downlink, each server port was tested independently, and the summation of power test data across all server ports is not required because the EUT ONLY allow installation with multiple server-port antennas providing coverage to different areas within a building declared from the manufacturer.

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4 Maximum booster gain computation

Maximum Output Power							
Test Path	Test Port	Signal Type	Input Signal Level (dBm)	Conducted Output Power (dBm)	Gain (dB)	Limit (dB)	Verdict
DL	MT1	AWGN	-60.5	9.33	69.83	≤100	PASS
		GSM	-61.0	9.51	70.51		PASS
	MT2	AWGN	-60.5	9.30	69.80		PASS
		GSM	-61.0	9.36	70.36		PASS
	MT3	AWGN	-60.5	9.35	69.85		PASS
		GSM	-61.0	9.55	70.55		PASS
	MT4	AWGN	-60.5	9.32	69.82		PASS
		GSM	-61.0	9.49	70.49		PASS
	MT5	AWGN	-60.5	9.44	69.94		PASS
		GSM	-61.0	9.61	70.61		PASS
	MT6	AWGN	-60.5	9.56	70.06		PASS
		GSM	-61.0	9.70	70.70		PASS
	MT7	AWGN	-60.5	9.41	69.91		PASS
		GSM	-61.0	9.57	70.57		PASS
	MT8	AWGN	-60.5	9.24	69.74		PASS
		GSM	-61.0	9.40	70.40		PASS
UL	DT	AWGN	-46.8	17.76	64.56	≤100	PASS
		GSM	-47.2	18.01	65.21		PASS

Remark:

1. The test frequency f_0 was determined in Authorized frequency band verification test in this report.
2. The input signal level is pre-AGC (just below the AGC threshold).
3. The EUT has automatic gain adjustment based on isolation measurements between booster donor and server antennas, so the maximum gain shall not exceed 100dB.



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Equivalent Uplink and Downlink Gain						
Test Port (DL)	Signal Type	Uplink Gain (dB)	Downlink Gain (dB)	UL vs DL Gain (dB)	Limit (dB)	Verdict
MT1	AWGN	64.56	69.83	5.27	≤ 9	PASS
	GSM	65.21	70.51	5.30		PASS
MT2	AWGN	64.56	69.80	5.24		PASS
	GSM	65.21	70.36	5.15		PASS
MT3	AWGN	64.56	69.85	5.29		PASS
	GSM	65.21	70.55	5.34		PASS
MT4	AWGN	64.56	69.82	5.26		PASS
	GSM	65.21	70.49	5.28		PASS
MT5	AWGN	64.56	69.94	5.38		PASS
	GSM	65.21	70.61	5.40		PASS
MT6	AWGN	64.56	70.06	5.50		PASS
	GSM	65.21	70.70	5.49		PASS
MT7	AWGN	64.56	69.91	5.35		PASS
	GSM	65.21	70.57	5.36		PASS
MT8	AWGN	64.56	69.74	5.18		PASS
	GSM	65.21	70.40	5.19		PASS

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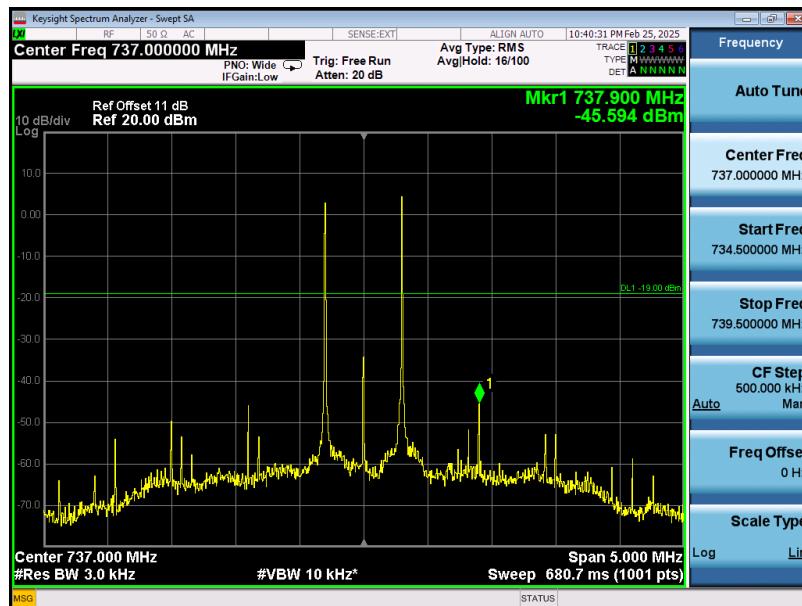
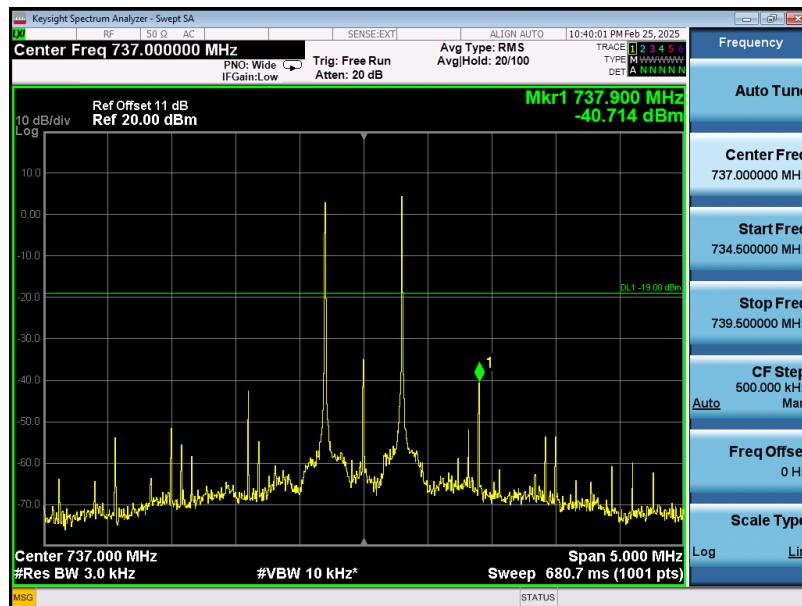
5 Intermodulation product

Intermodulation product							
Test Path	Test Port	Test Channel	Test Signal/ Signal Spacing (kHz)	Signal Level	Worst product test level (dBm)	Limit (dBm)	Verdict
DL	MT1	M	CW/600kHz	Pre-AGC	-45.59	≤-19	PASS
				10dB above AGC	-40.71		PASS
UL	DT	M	CW/600kHz	Pre-AGC	-27.18	≤-19	PASS
				10dB above AGC	-23.45		PASS



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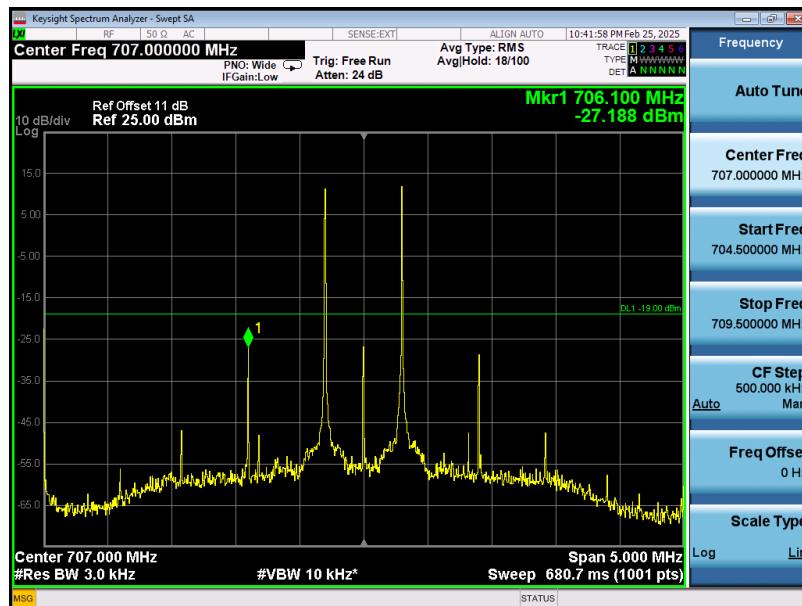
Intermodulation product
DL_pre-AGC_MT1

DL_10dB above AGC_MT1


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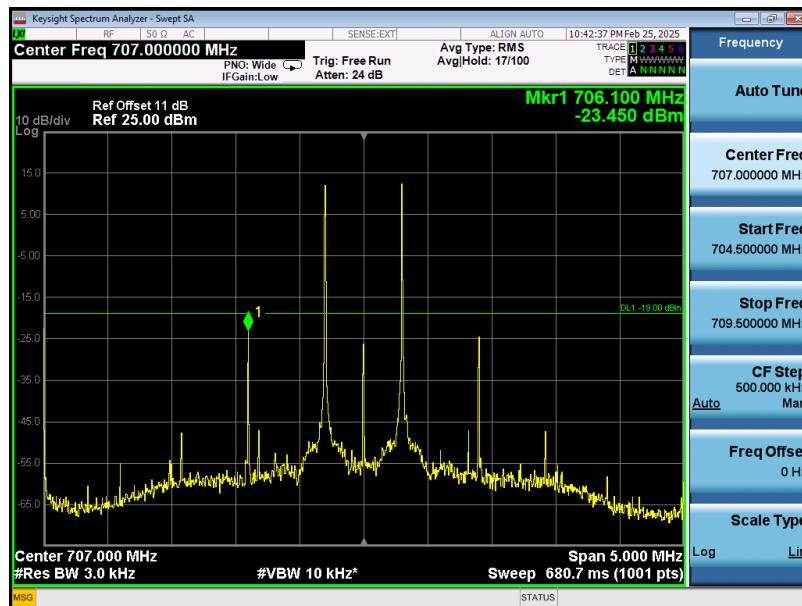
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Intermodulation product

UL_pre-AGC_DT



UL_10dB above AGC_DT



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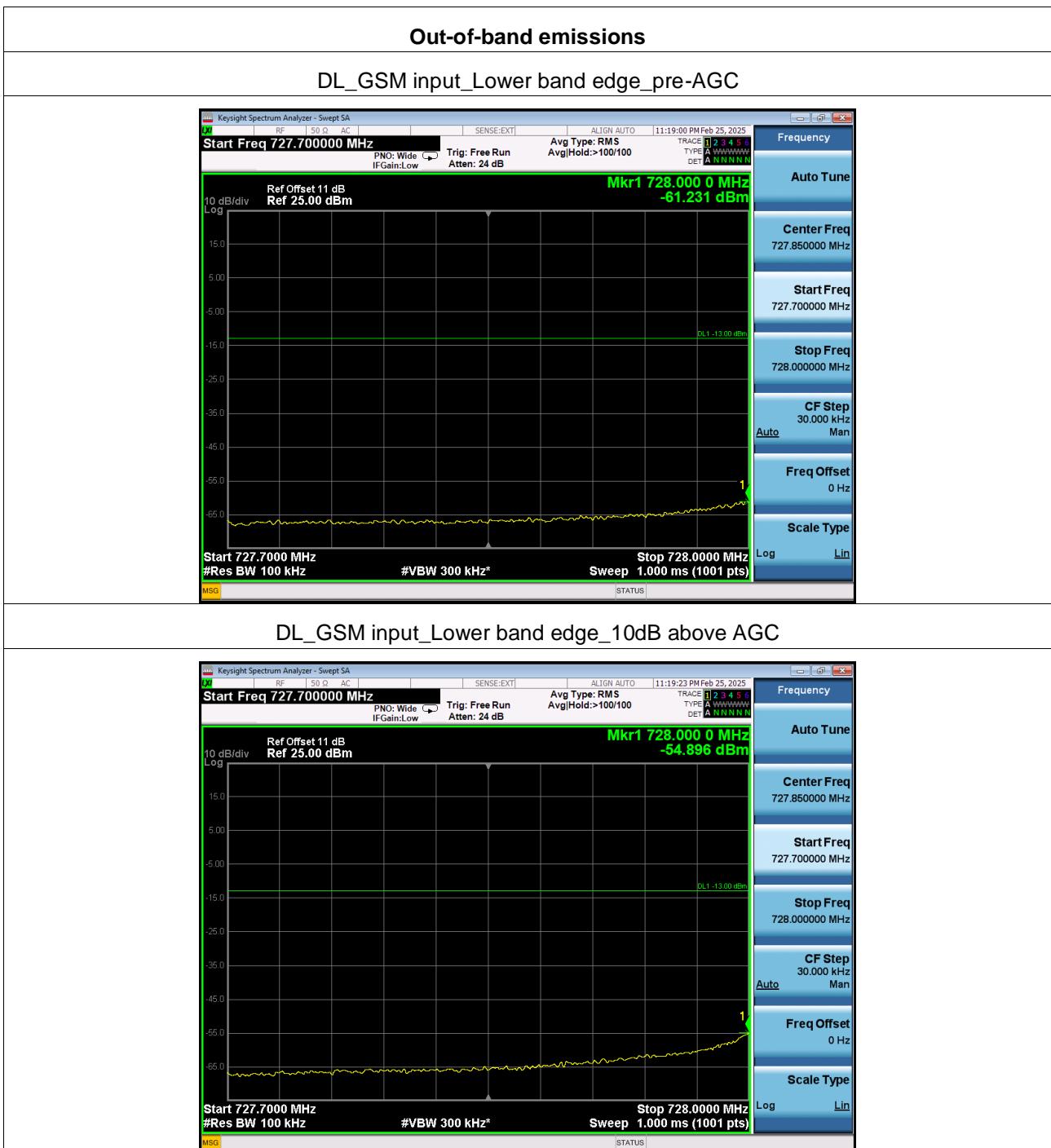
6 Out-of-band emissions

Out-of-band emissions							
Test Path	Test Port	Test Signal	Band Edge	Signal Level	Worst conducted test level (dBm)	Limit (dBm)	Verdict
DL	MT1	GSM	Lower	Pre-AGC	-61.23	≤-13	PASS
				10dB above AGC	-54.89		PASS
			Upper	Pre-AGC	-53.66		PASS
				10dB above AGC	-44.67		PASS
		1.25MHz AWGN	Lower	Pre-AGC	-62.07	≤-13	PASS
				10dB above AGC	-61.91		PASS
			Upper	Pre-AGC	-57.40		PASS
				10dB above AGC	-57.59		PASS
		4.1MHz AWGN	Lower	Pre-AGC	-65.15	≤-13	PASS
				10dB above AGC	-64.27		PASS
			Upper	Pre-AGC	-57.13		PASS
				10dB above AGC	-57.40		PASS
UL	DT	GSM	Lower	Pre-AGC	-20.75	≤-13	PASS
				10dB above AGC	-20.97		PASS
			Upper	Pre-AGC	-51.53		PASS
				10dB above AGC	-51.34		PASS
		1.25MHz AWGN	Lower	Pre-AGC	-20.78	≤-13	PASS
				10dB above AGC	-20.90		PASS
			Upper	Pre-AGC	-48.35		PASS
				10dB above AGC	-46.00		PASS
		4.1MHz AWGN	Lower	Pre-AGC	-20.81	≤-13	PASS
				10dB above AGC	-20.98		PASS
			Upper	Pre-AGC	-56.52		PASS
				10dB above AGC	-56.70		PASS

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Out-of-band emissions

DL_GSM input_Upper band edge_pre-AGC



DL_GSM input_Upper band edge_10dB above AGC



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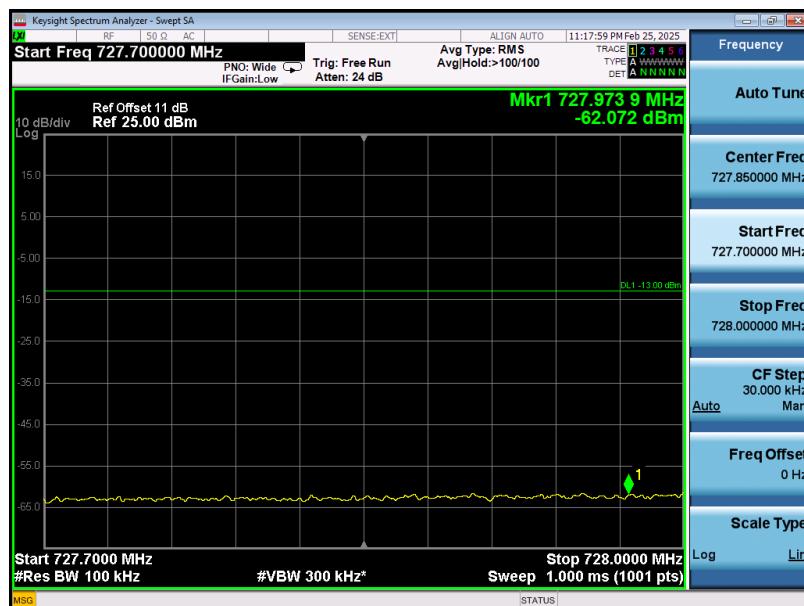


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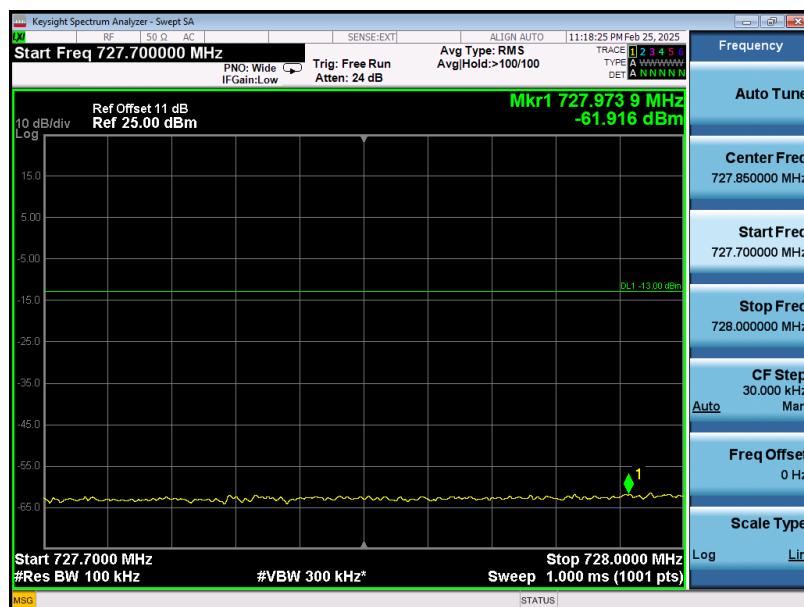
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Out-of-band emissions

DL_1.25MHz AWGN input_Lower band edge_pre-AGC



DL_1.25MHz AWGN input_Lower band edge_10dB above AGC

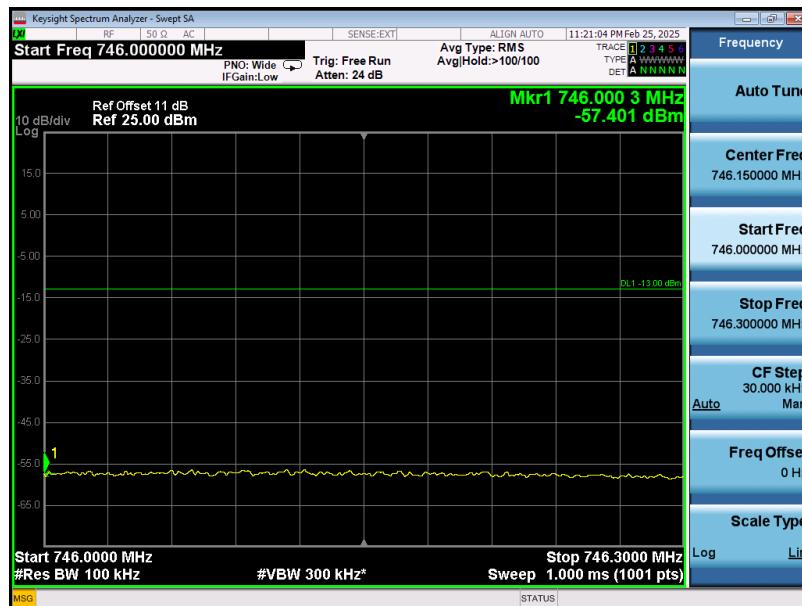


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Out-of-band emissions

DL_1.25MHz AWGN input_Upper band edge_pre-AGC



DL_1.25MHz AWGN input_Upper band edge_10dB above AGC



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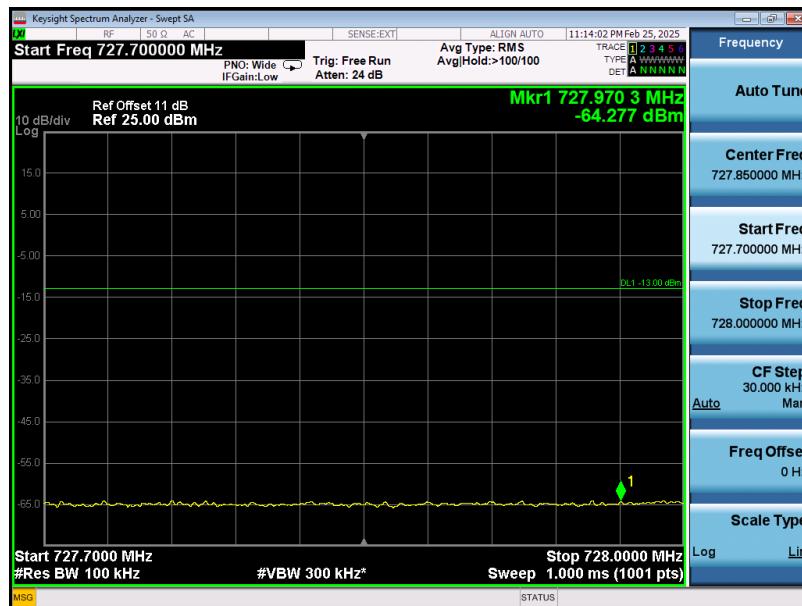
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Out-of-band emissions

DL_4.1MHz AWGN input_Lower band edge_pre-AGC



DL_4.1MHz AWGN input_Lower band edge_10dB above AGC



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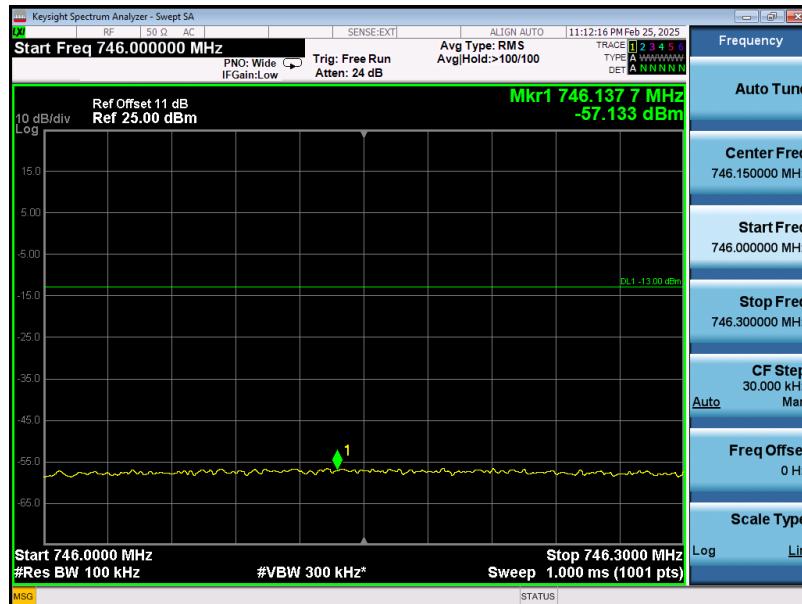


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Out-of-band emissions

DL_4.1MHz AWGN input_Upper band edge_pre-AGC



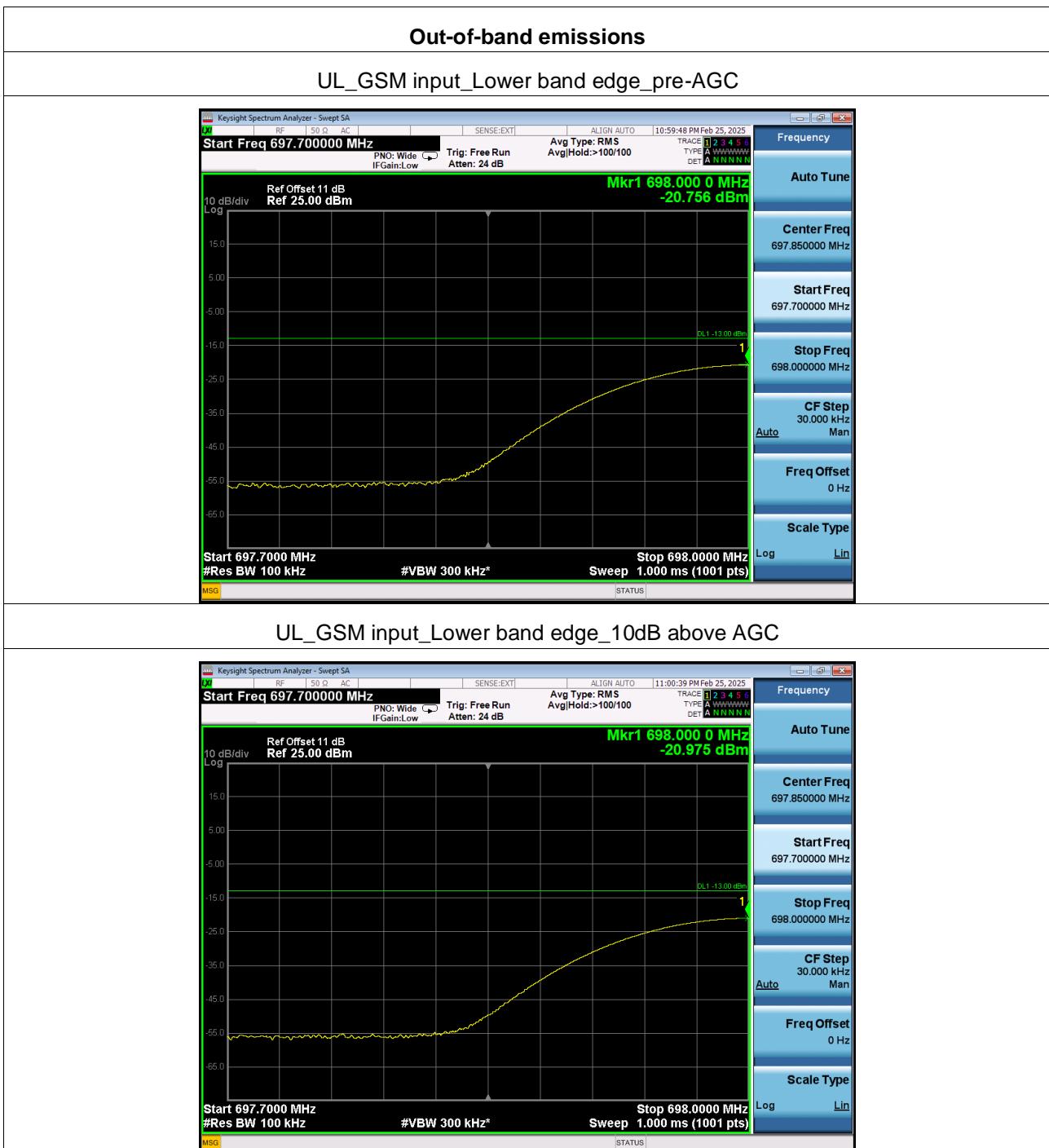
DL_4.1MHz AWGN input_Upper band edge_10dB above AGC



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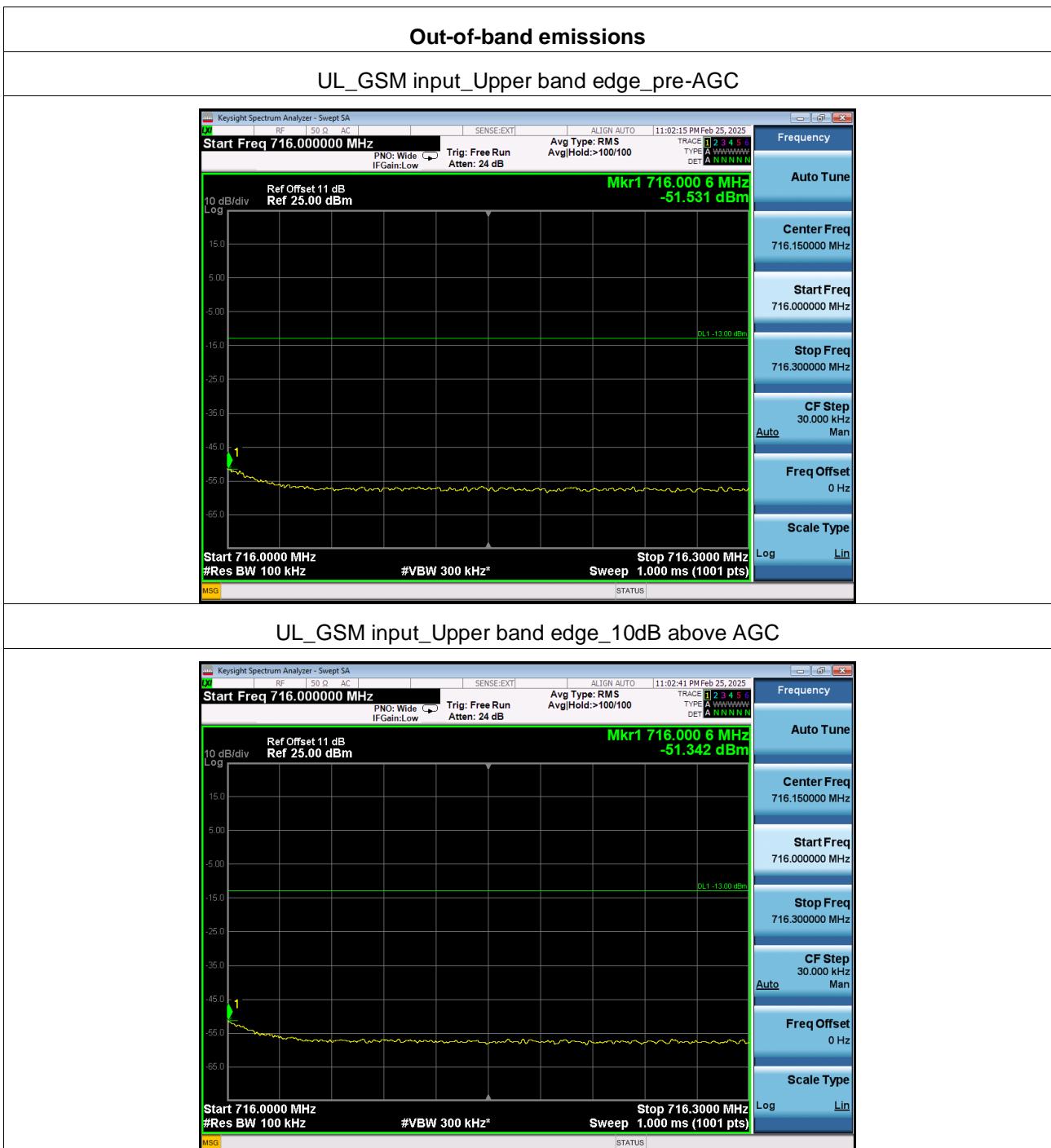
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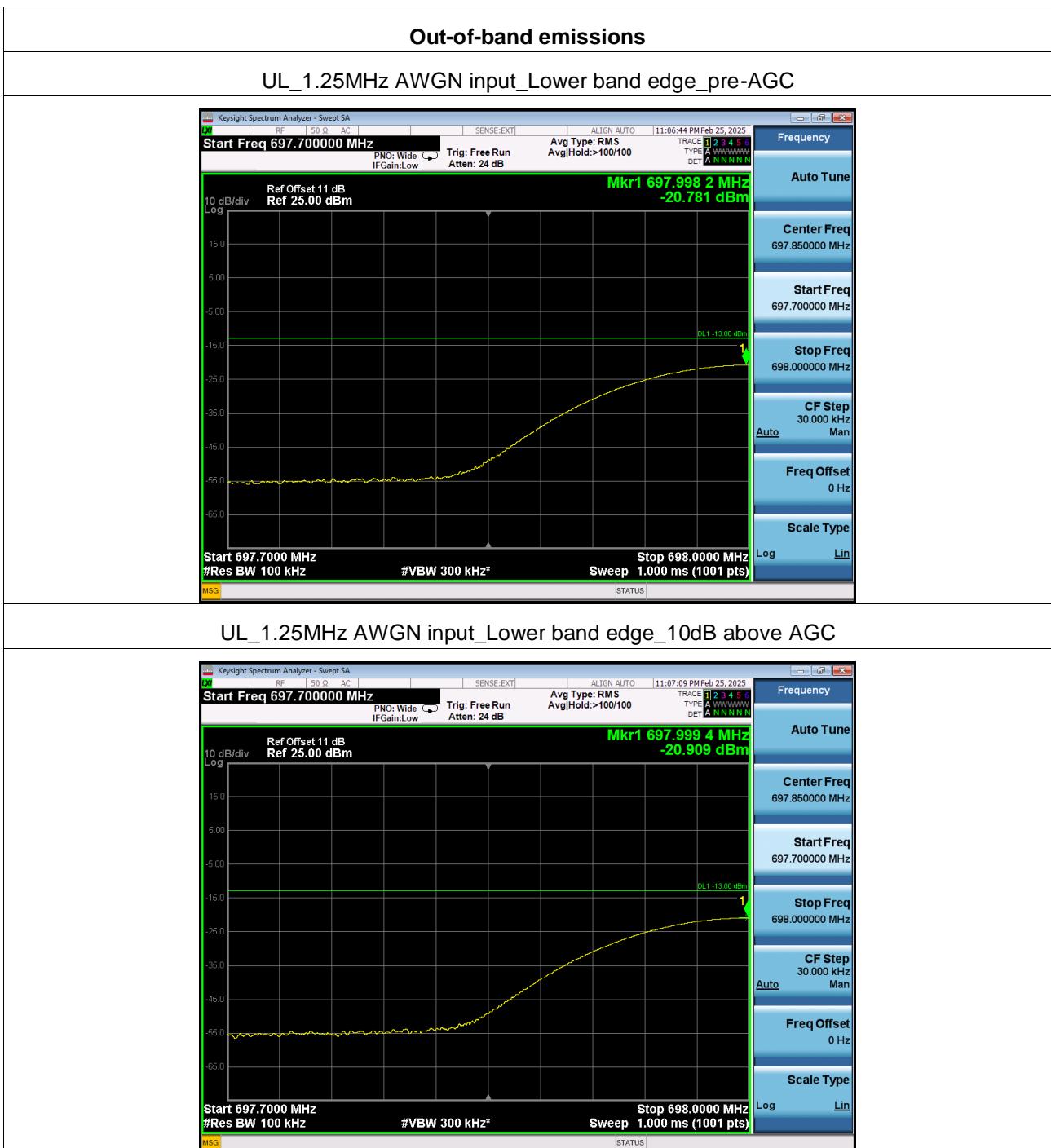
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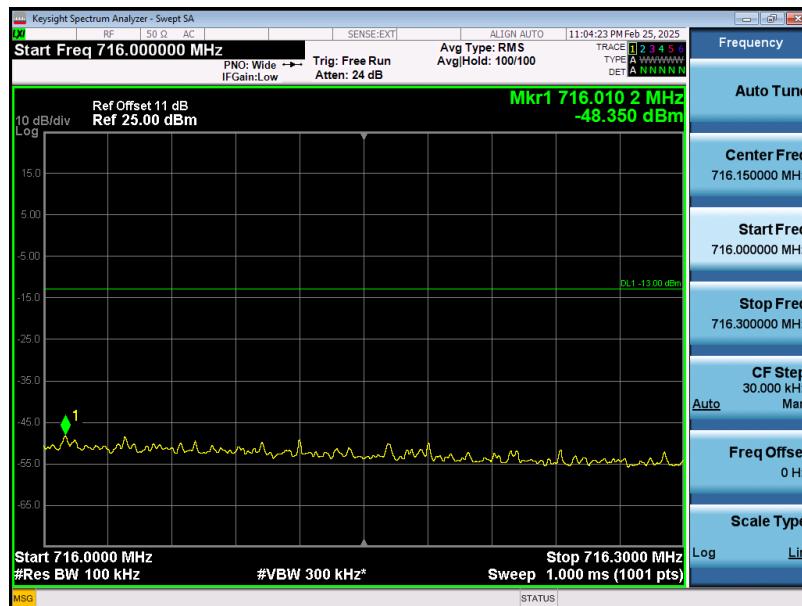


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Out-of-band emissions

UL_1.25MHz AWGN input_Upper band edge_pre-AGC



UL_1.25MHz AWGN input_Upper band edge_10dB above AGC



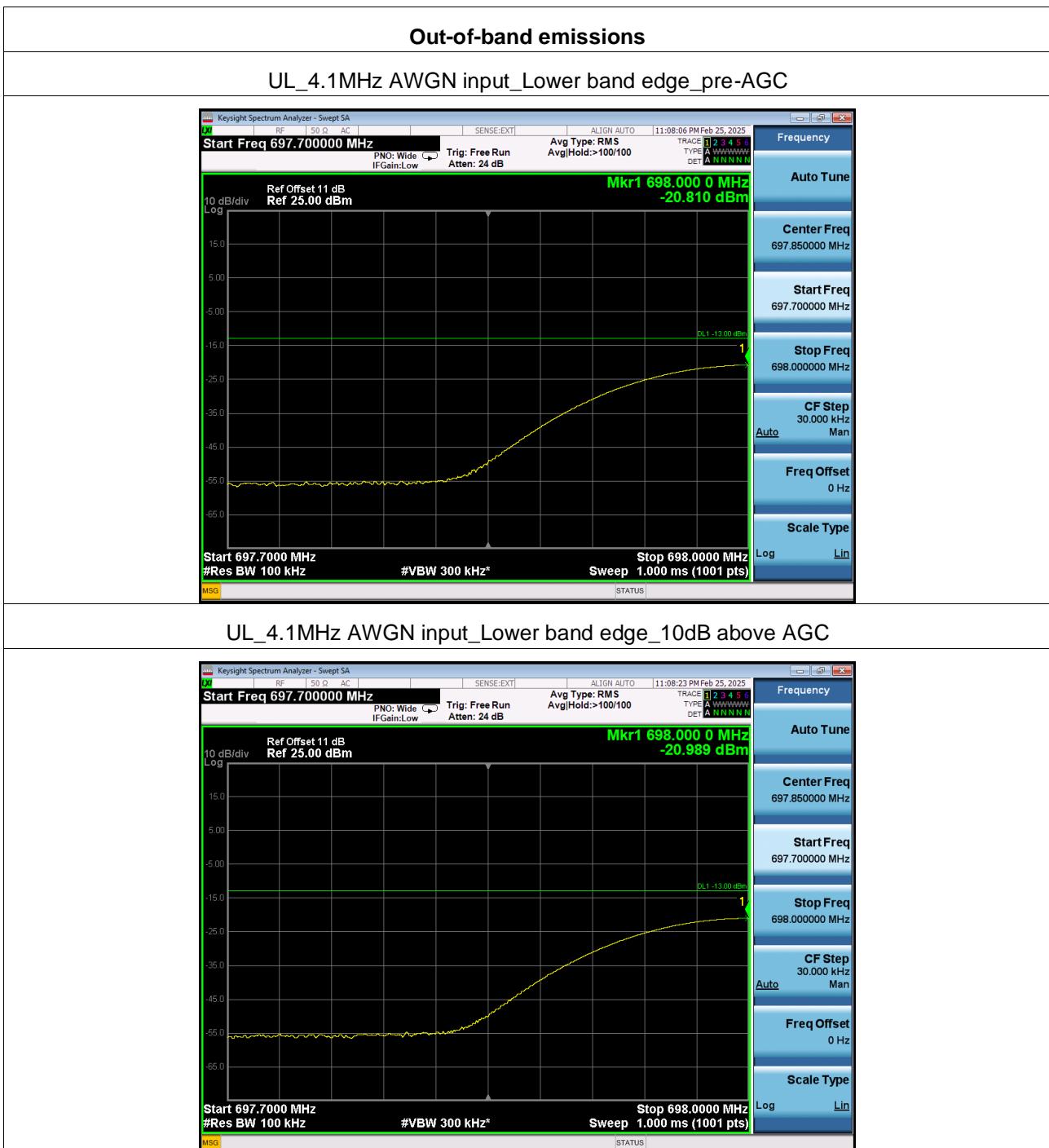
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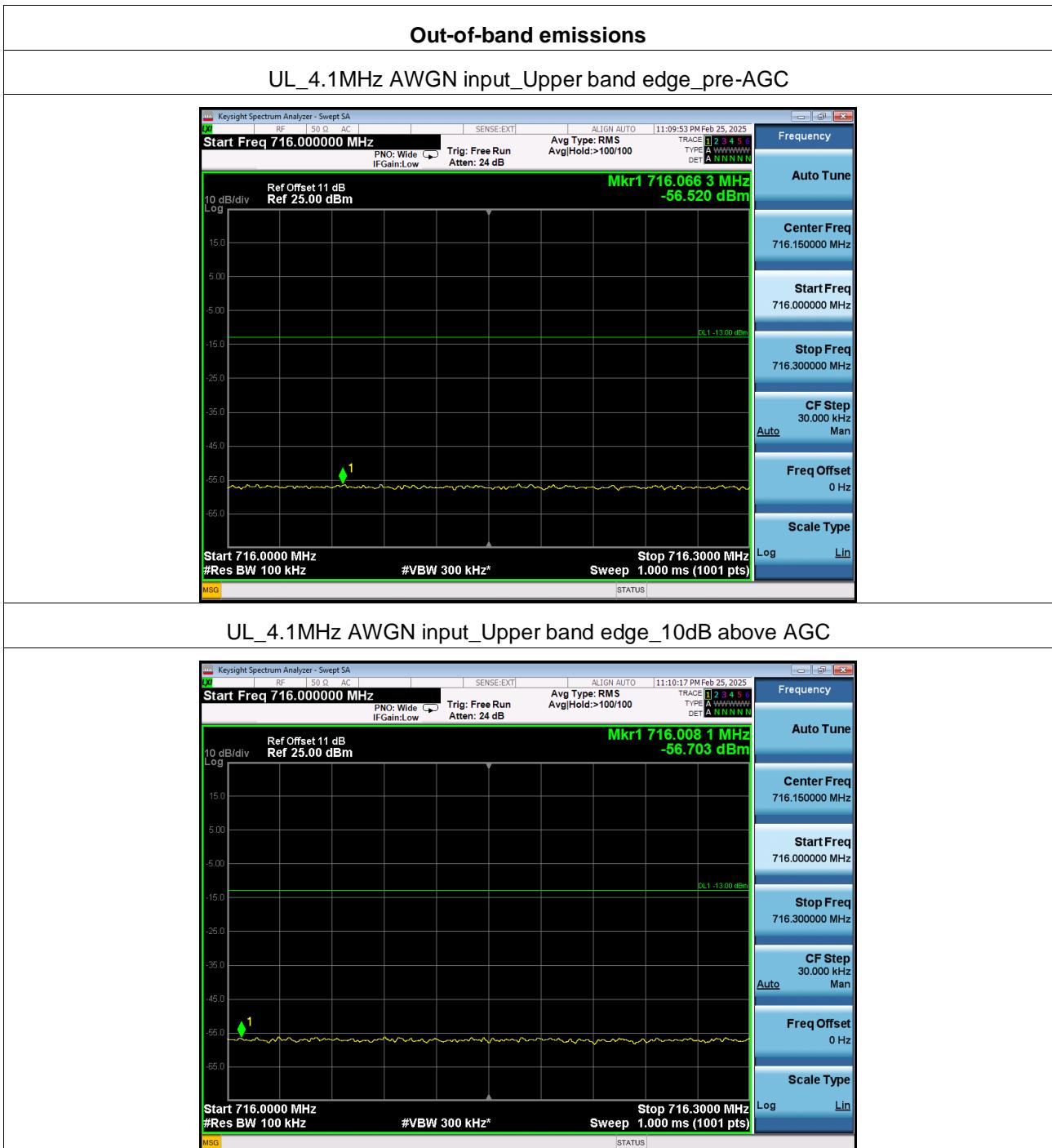
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7 Conducted spurious emissions

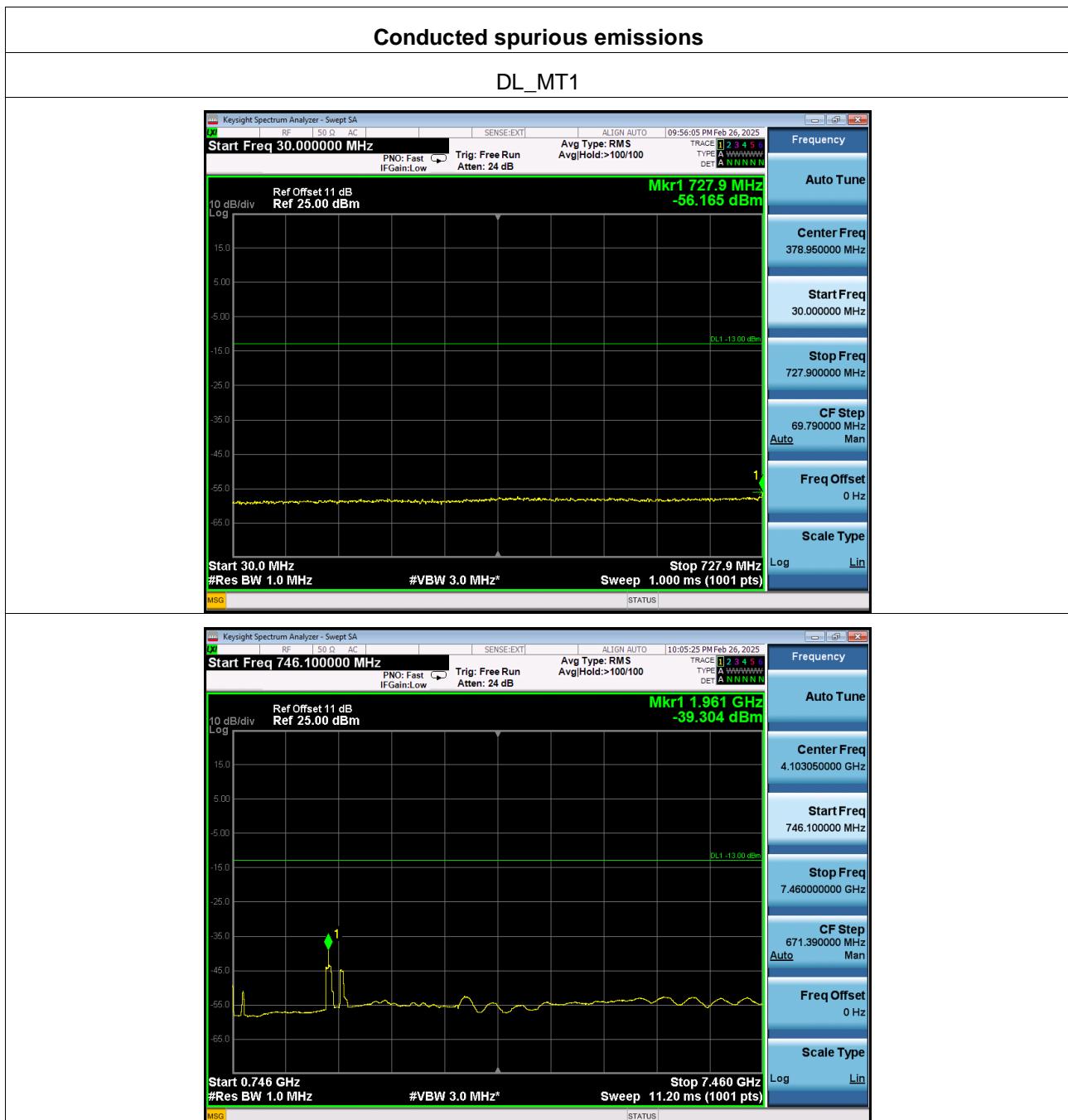
Conducted spurious emissions							
Test Path	Test Port	Test Signal	Test Channel	Frequency Range (MHz)	Worst conducted test level (dBm)	Limit (dBm)	Verdict
DL	MT1	4.1MHz AWGN	MCH	30-727.9	-56.16	≤-13	PASS
				746.1-7460	-39.30	≤-13	PASS
	MT2	4.1MHz AWGN	MCH	30-727.9	-55.97	≤-13	PASS
				746.1-7460	-39.59	≤-13	PASS
	MT3	4.1MHz AWGN	MCH	30-727.9	-55.93	≤-13	PASS
				746.1-7460	-40.01	≤-13	PASS
	MT4	4.1MHz AWGN	MCH	30-727.9	-56.14	≤-13	PASS
				746.1-7460	-39.67	≤-13	PASS
	MT5	4.1MHz AWGN	MCH	30-727.9	-56.06	≤-13	PASS
				746.1-7460	-39.78	≤-13	PASS
	MT6	4.1MHz AWGN	MCH	30-727.9	-56.06	≤-13	PASS
				746.1-7460	-39.64	≤-13	PASS
	MT7	4.1MHz AWGN	MCH	30-727.9	-56.32	≤-13	PASS
				746.1-7460	-39.66	≤-13	PASS
	MT8	4.1MHz AWGN	MCH	30-727.9	-56.26	≤-13	PASS
				746.1-7460	-39.46	≤-13	PASS
UL	DT	4.1MHz AWGN	MCH	30-697.9	-48.42	≤-13	PASS
				716.1-7160	-30.76	≤-13	PASS
Remark: The conducted spurious emissions 9kHz to 30MHz were very low and not displayed test plots in this report.							

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