LTE Band 12 / 3MHz / QPSK Lowest Band Edge / 1RB Highest Band Edge / 1 RB Spectrum Ref Level 30.00 dBm Offset 11.20 dB Mode Auto Sweep Ref Level 30.00 dBm Offset 11.20 dB Mode Auto Sweep Count 100/100 SGL Count 100/100 LINE_ABS 20 dBm--20 dBm -30 dBm 40 dBm -60 dBm Start 690.0 MHz 3003 pts Stop 702.0 MHz purious Emissions Power Abs -28,75 dB Range Low Range Up 698.900 MHz ∆Limit Range Low 716.100 MHz 725.000 MHz ate: 31.0CT.2016 11:55:40 Highest Band Edge / Full RB Lowest Band Edge / Full RB **W** Spectrum Mode Auto Sweep **Ref Level** 30.00 dBm **Offset** 11.20 dB SGL Count 100/100 Mode Auto Sweep Ref Level 30.00 dBm Offset 11.20 dB SGL Count 100/100 1 AvgPw Line SPURIOUS LINE ABS SPURIOUS_LINE_ABS 20 dBm 10 dBmdBm LINE ABS 20 dBm 30 dBn -30 dBm 50 dBm 50 dBm Start 713.0 MHz purious Emissions Range Up 698.900 MHz 699.000 MHz Frequency 698.89555 MHz 698.99855 MHz 699.75075 MHz Range Low 713.000 MHz 716.000 MHz 716.100 MHz ΔLimit Range Up Frequency 715.00050 MHz 716.00045 MHz 716.10445 MHz -16.16 dB -14.71 dB -20.53 dB

Date: 31.0CT.2016 12:02:17

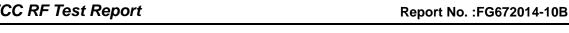
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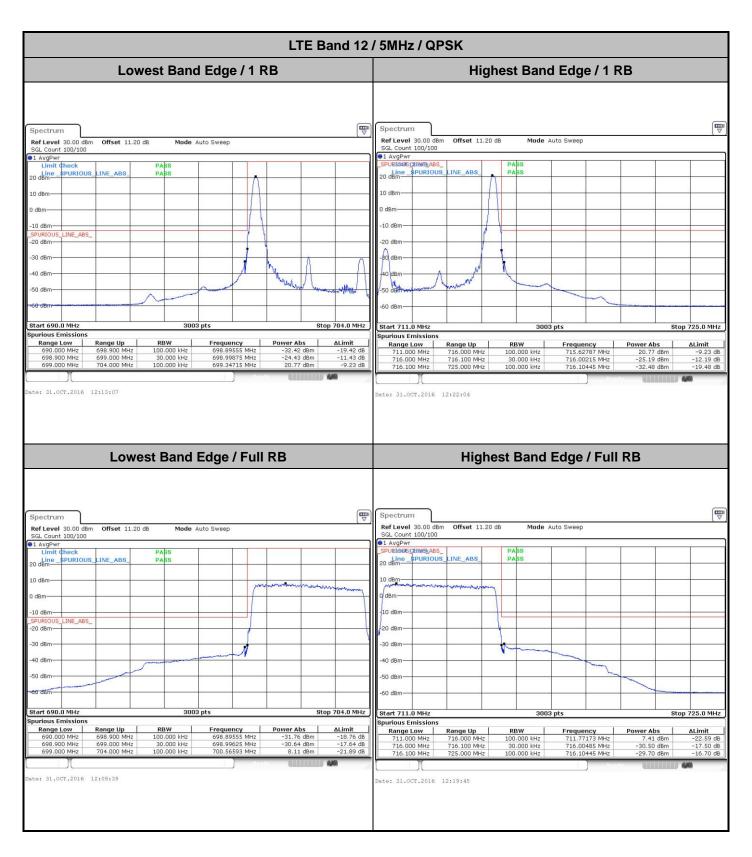
te: 31.0CT.2016 11:52:12

LTE Band 12 / 3MHz / 16QAM Lowest Band Edge / 1 RB Highest Band Edge / 1 RB Spectrum Ref Level 30.00 dBm Offset 11.20 dB Mode Auto Sweep Ref Level 30.00 dBm Offset 11.20 dB Mode Auto Sween Count 100/100 SGL Count 100/100 LINE_ABS 20 dBm--20 dBm -30 dBm 40 dBm Start 690.0 MHz 3003 pts Stop 702.0 MHz urious Emissions Power Abs -29,99 dB Range Up 698.900 MHz ΔLimit Range Low 716.100 MHz 725.000 MHz ate: 31.0CT.2016 11:54:31 Lowest Band Edge / Full RB **Highest Band Edge / Full RB W** Spectrum Mode Auto Sweep Ref Level 30.00 dBm Offset 11.20 dB SGL Count 100/100 Mode Auto Sweep Ref Level 30.00 dBm Offset 11.20 dB SGL Count 100/100 1 AvgPw Line SPURIOUS LINE ABS SPURIOUS_LINE_ABS 10 dBm dBm LINE_ABS_ 20 dBm 30 dBn -30 dBm 50 dBm 50 dBm Start 713.0 MHz purious Emissions Range Up 698.900 MHz 699.000 MHz 702.000 MHz Frequency 698.88666 MHz 698.99745 MHz 699.96653 MHz -31.23 dBm -29.59 dBm 8.59 dBm Range Low 713.000 MHz 716.000 MHz 716.100 MHz ΔLimit Range Up te: 31.0CT.2016 11:53:21 Date: 31.0CT.2016 12:03:27

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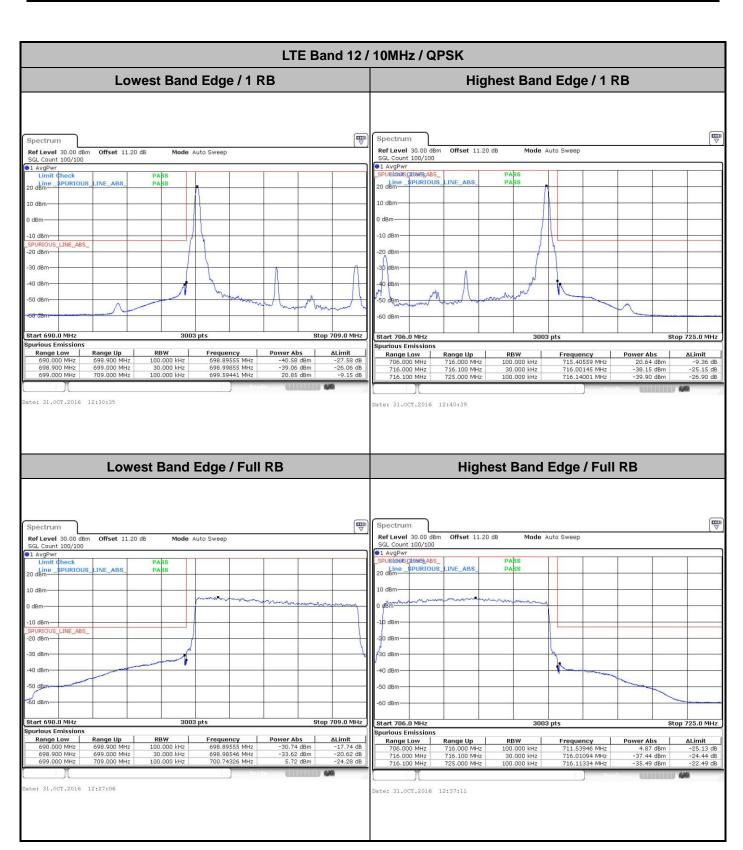


LTE Band 12 / 5MHz / 16QAM Lowest Band Edge / 1RB Highest Band Edge / 1 RB Spectrum Ref Level 30.00 dBm Offset 11.20 dB Mode Auto Sweep Ref Level 30.00 dBm Offset 11.20 dB Mode Auto Sween Count 100/100 SGL Count 100/100 LINE_ABS 20 dBm--30 dBm 40 dBm -60 dBm Start 690.0 MHz 3003 pts Stop 704.0 MHz urious Emissions Range Up 698.900 MHz Range Low Range Low -33.75 di 716.100 MHz 725.000 MHz ate: 31.0CT.2016 12:11:58 **Highest Band Edge / Full RB** Lowest Band Edge / Full RB **W** Spectrum Mode Auto Sweep Ref Level 30.00 dBm Offset 11.20 dB SGL Count 100/100 Mode Auto Sweep Ref Level 30.00 dBm Offset 11.20 dB SGL Count 100/100 1 AvgPw Line SPURIOUS LINE_ABS SPURIOUS_LINE_ABS 10 dBm 10 dBm dBm-INE ABS 20 dBm 30 dBn 50 dBm 50 dBm Start 711.0 MHz purious Emissions Range Up 698.900 MHz 699.000 MHz -32.80 dBm -31.53 dBm -7.30 dBm Range Low 711.000 MHz 716.000 MHz 716.100 MHz ΔLimit Range Up Frequency 711.66683 MHz 716.00355 MHz 716.11334 MHz -19.80 dB -18.53 dB -22.70 dB

Date: 31.0CT.2016 12:20:54

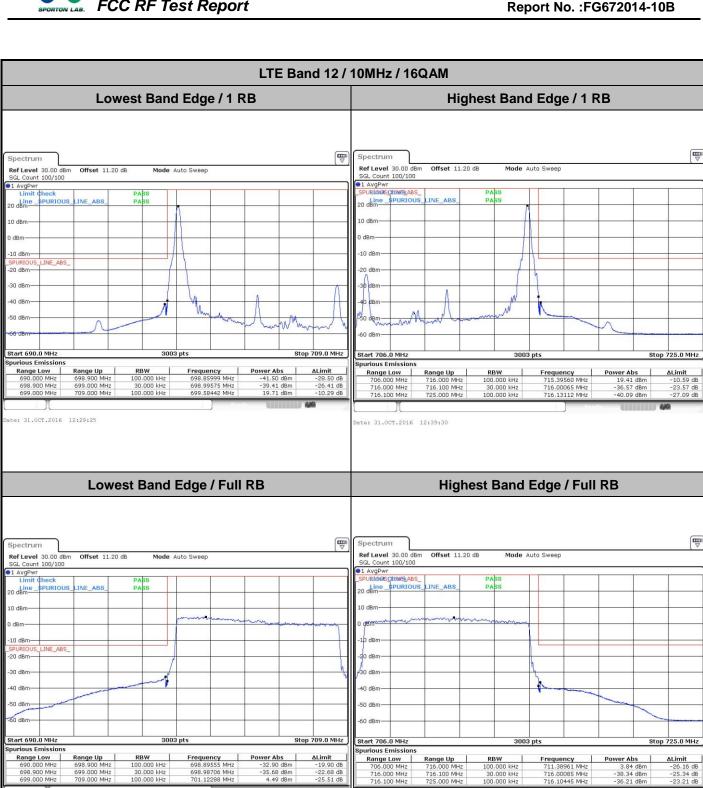
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-19.90 dB -22.68 dB -25.51 dB

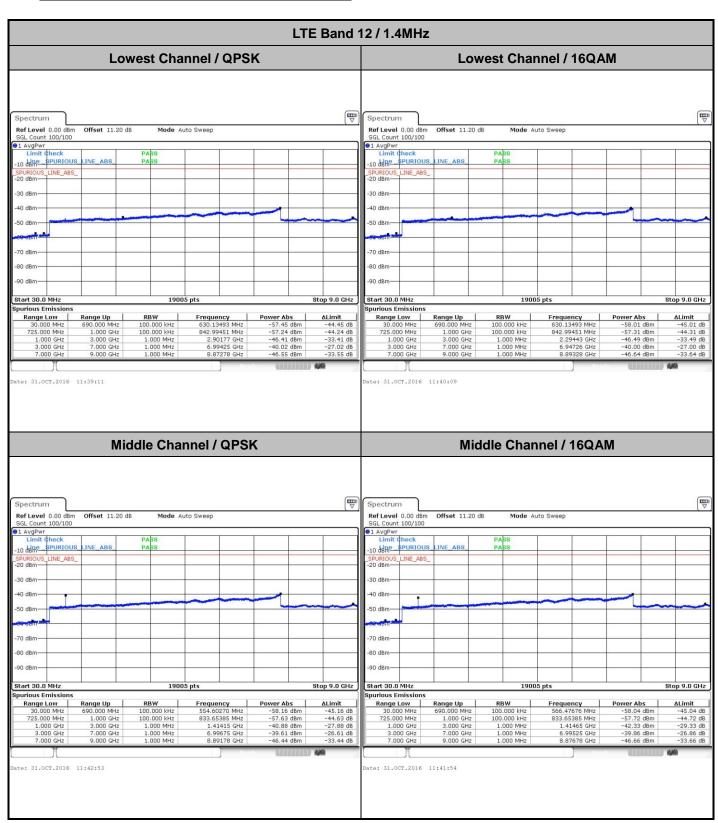
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te: 31.0CT.2016 12:28:16

Range Up

Date: 31.0CT.2016 12:38:20

Conducted Spurious Emission

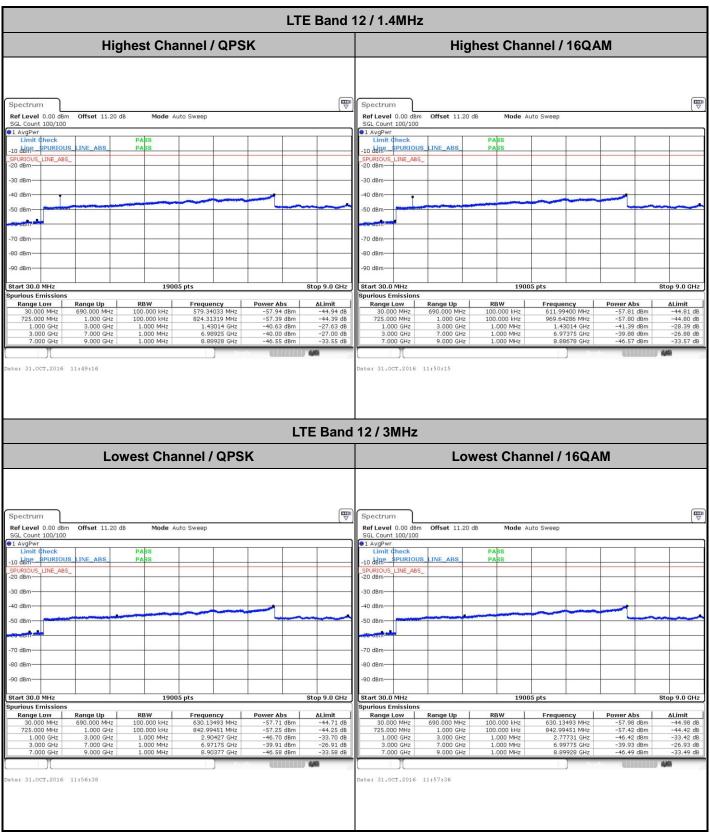


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TEL: 886-3-327-3456 FAX: 886-3-328-4978 Page Number

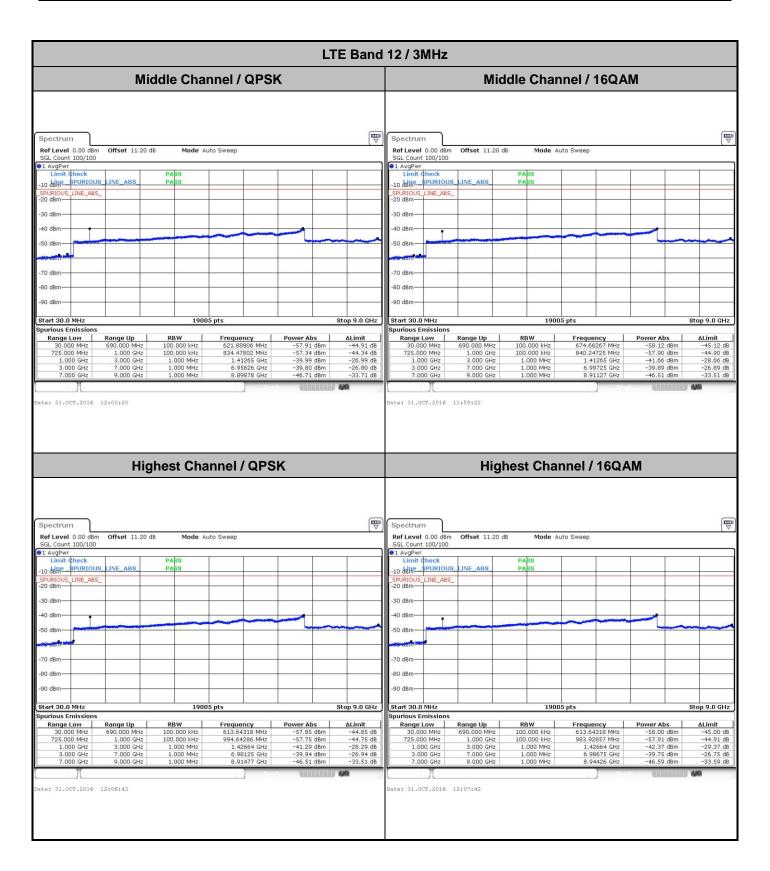
: A4-22 of 28

Report No.: FG672014-10B

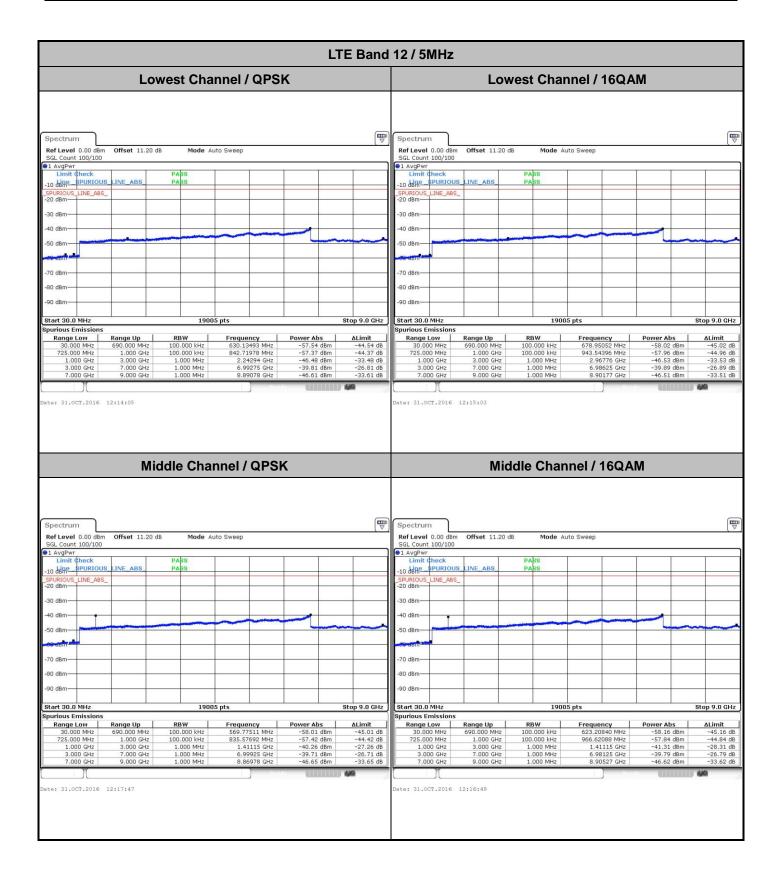


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CC RF Test Report Report No. :FG672014-10B



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TEL: 886-3-327-3456 FAX: 886-3-328-4978 Page Number

: A4-25 of 28

Start 30.0 MHz

Range Low 30.000 MHz

ste: 31.0CT.2016 12:31:32

Range Up

FAX: 886-3-328-4978

0.000 MHz 1.000 GHz 3.000 GHz

RBW

100.000 kHz 100.000 kHz 100.000 kHz 1.000 MHz 1.000 MHz

Report No.: FG672014-10B LTE Band 12 / 5MHz **Highest Channel / QPSK Highest Channel / 16QAM** Spectrum Spectrum Ref Level 0.00 dBm Offset 11.20 dB Mode Auto Sweep Ref Level 0.00 dBm Offset 11.20 dB Mode Auto Sweep GL Count 100/100 SGL Count 100/100 10 dem SPURIOUS 10 dine SPURIOUS LINE ABS LINE_ABS_ _INE_ABS_ 20 dBm 20 dBm 30 dBm -30 dBm 40 dBm 40 dBm -50 dBm -50 dBm op 9.0 GHz Start 30.0 MHz Start 30.0 MHz rious Emissio Spurious Emissions Frequency 615.95202 MHz 828.43407 MHz 1.42314 GHz 6.98875 GHz 8.90777 GHz Power Abs
-57.58 dBm
-57.56 dBm
-44.19 dBm
-40.03 dBm
-46.64 dBm Range Low 30.000 MHz 725.000 MHz 1.000 GHz 3.000 GHz 7.000 GHz RBW 100.000 kHz 100.000 kHz 1.000 MHz 1.000 MHz 1.000 MHz 44.74 dB -44.70 dB -33.11 dB -26.46 dB -33.33 dB Range Up 690,000 MHz RBW 100.000 kHz 100.000 kHz Frequency 615.95202 MHz 828.43407 MHz 1.42314 GHz 6.98725 GHz 8.87928 GHz Range Low 30.000 MHz Range Up 690.000 MH: 1.000 MHz 1.000 GHz 3.000 GHz 7.000 GHz 9.000 GHz -57.74 dBm -57.70 dBm -46.11 dBm -39.46 dBm -46.33 dBm 1.000 GHz 3.000 GHz L.000 MHz L.000 MHz L.000 MHz te: 31.0CT.2016 12:25:09 ate: 31.0CT.2016 12:24:11 LTE Band 12 / 10MHz Lowest Channel / QPSK **Lowest Channel / 16QAM** Spectrum Spectrum Ref Level 0.00 dBm Offset 11.20 dB Mode Auto Sweep Mode Auto Sweep Ref Level 0.00 dBm Offset 11.20 dB SGL Count 100/100 SGL Count 100/100 ●1 AvgPwr Limit ¢l 10 dine SPURIOUS LINE ABS 10 dine SPURIOUS LINE ABS 20 dBm LINE_ABS_ _INE_ABS_ 20 dBm 30 dBm -30 dBm 40 dBm 40 dBm 50 dBm -50 dBm 80 dBm -80 dBm

SPORTON INTERNATIONAL INC. : A4-26 of 28 Page Number TEL: 886-3-327-3456

Stop 9.0 GHz

ALimit
-45.04 dB
-44.57 dB
-33.57 dB
-26.91 dB
-33.51 dB

Frequency 629.80510 MHz 842.44505 MHz 2.80430 GHz

90 dBm

Start 30.0 MHz

Spurious Emissions

Range Up

1.000 GHz 3.000 GHz

Range Low 30.000 MHz 725.000 MHz

1.000 GHz 3.000 GHz 7.000 GHz

ate: 31.0CT.2016 12:32:30

19005 pt

RBW

100.000 kHz 100.000 kHz 1.000 MHz 1.000 MHz 1.000 MHz

Frequency 685.87706 MHz 946.01648 MHz 2.96776 GHz 6.97075 GHz 8.90027 GHz

Stop 9.0 GHz

ΔLimit

-58.04 dBm -58.07 dBm -46.47 dBm





Frequency Stability

Test Conditions		LTE Band 12 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0131	
40	Normal Voltage	0.0017	
30	Normal Voltage	0.0148	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0027	
0	Normal Voltage	0.0140	
-10	Normal Voltage	0.0003	PASS
-20	Normal Voltage	0.0140	
-30	Normal Voltage	0.0133	
20	Maximum Voltage	0.0006	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0143	

Note:

- 1. Normal Voltage =3.6 V.; Battery End Point (BEP) =3.45 V.; Maximum Voltage =4.2 V.
- 2. Note: The frequency fundamental emissions stay within the authorized frequency block.

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