

FCC ID. : W6U150V450U Page 186 of 273 Report No.: E09NR-036

8.3.1 Test Result for peak power at UHF band BII

-. Test Date : November 09, 2009

-. Temperature : 24 °C

-. Relative humidity : 47 % R.H.

-. Test Result : Pass

-. Modulation : No-Modulation

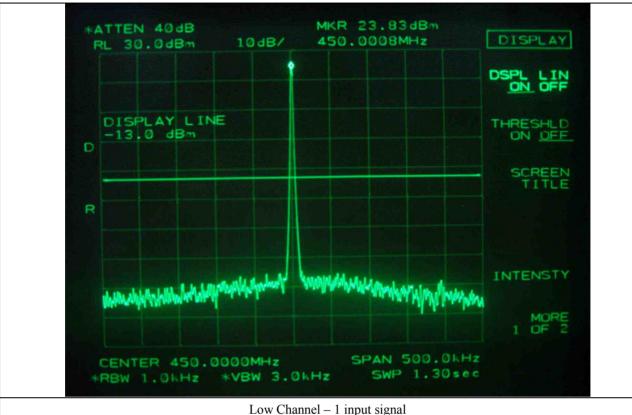
Frequency (MHz)	Number of Input Channel	Input Power (dBm)	Output Power (dBm)
450.0	1	-13.67	23.83
450.0 & 450.25	2	-13.80	24.00
450, 450.025 & 450.050	3	-13.85	24.00
512.0	1	-13.83	24.00
512.0 & 512.975	2	-13.83	23.83
512.0, 512.975 & 512.950	3	-13.67	23.83



Tested by: Ki-Hong, Nam / Project Engineer

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MKR 24.00dBm *ATTEN 40dB DISPLAY 10dB/ 450.0258MHz RL 30.0dBm DISPLAY LINE THRESHLD ON DEF 13.0 dBm SCREEN TITLE R INTENSTY MORE 1 OF 2 SPAN 500.0kHz CENTER 450.0000MHz SWP 1.30sec *RBW 1.0kHz *VBW 3.0KHz Low Channel – 2 input signals

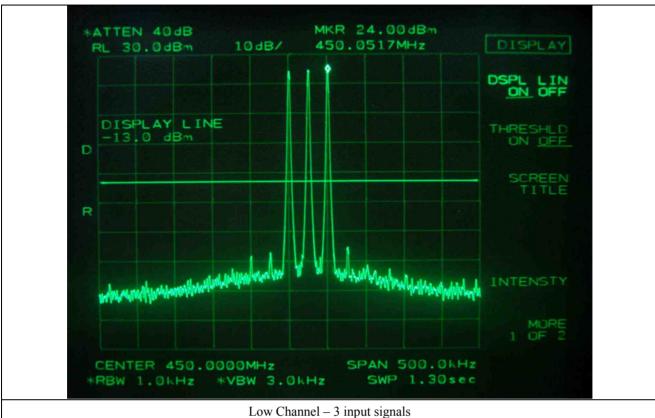
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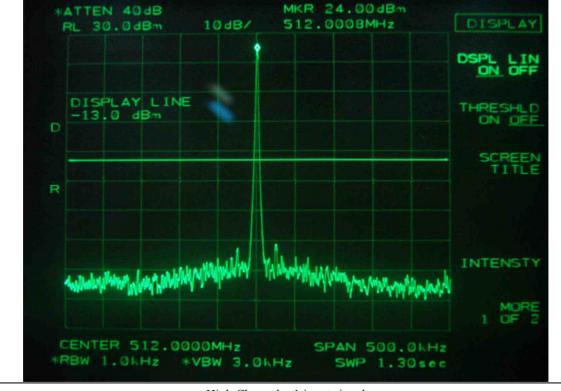
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EMC Testing Dept: 307-51 Daessangnyeong-ri, Chowol-eup, Gwangju-si, Gyeonggi-do 464-862 Korea. (TEL: +82-31-765-8289, FAX: +82-31-766-2904)

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High Channel – 1 input signal

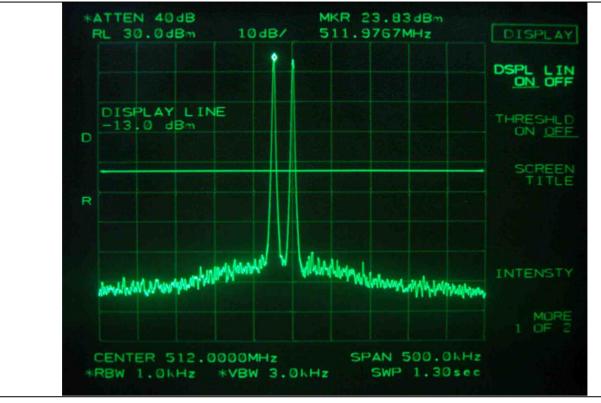
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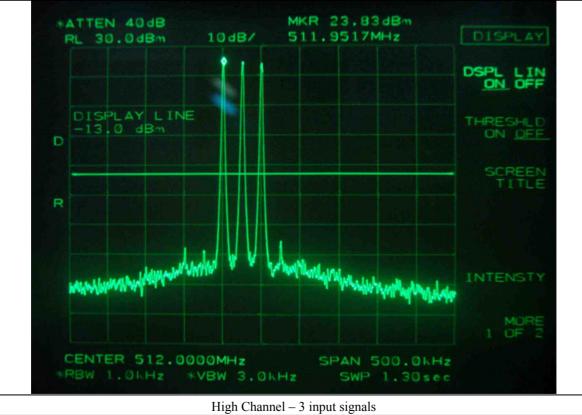
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High Channel – 2 input signals



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8.3.2 Test Result for Spurious emission at VHF band

: November 09, 2009 -. Test Date

-. Temperature : 24 °C

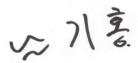
-. Relative humidity : 47 % R.H.

-. Test Result : Pass

-. Modulation : No-Modulation

Frequency (MHz)	Number of Input Channel	Measured Value	Result
450.0	1		
450.0 & 450.25	2	<-13 dBm	Pass
450, 450.025 & 450.050	3		
512.0	1		
512.0 & 512.975	2	<-13 dBm	Pass
512.0, 512.975 & 512.950	3		

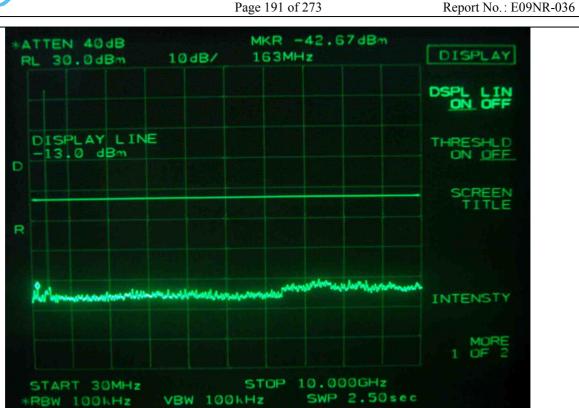
Remark: Intermodulation products must be attenuated below the rated power of the EUT at least 43 + 10log (Pw), equivalent to -13 dBm. Please refer to test data hereinafter.

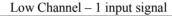


Tested by: Ki-Hong, Nam / Project Engineer









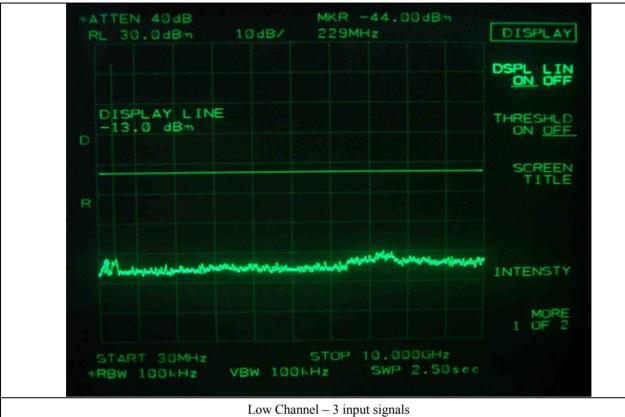


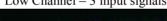
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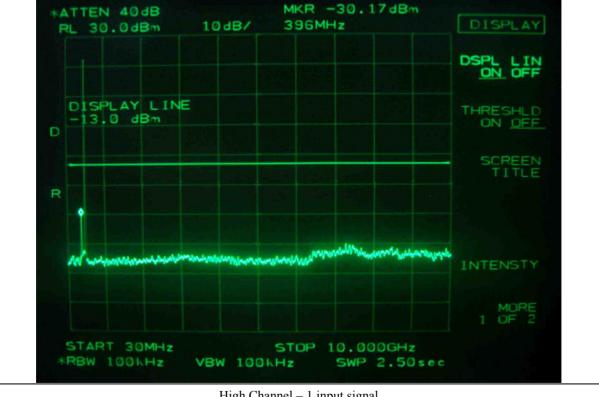
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High Channel – 1 input signal

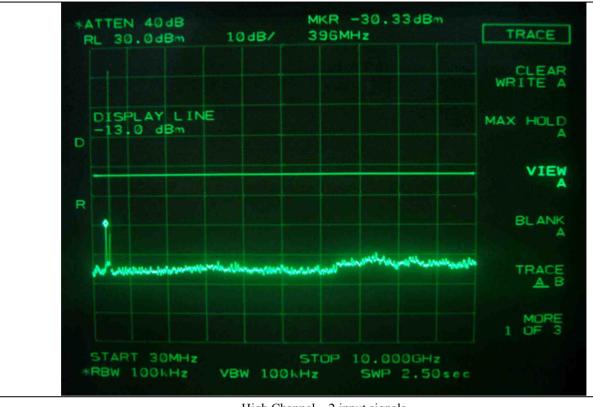
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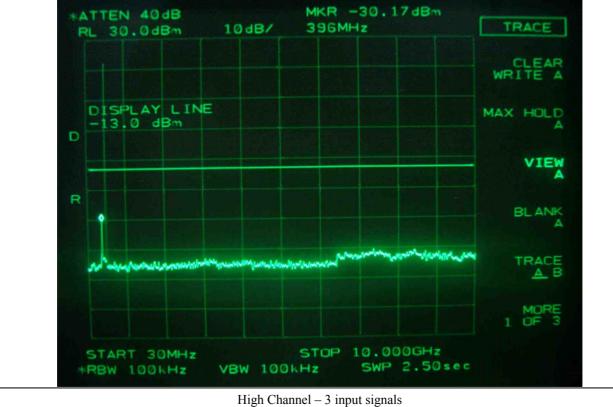
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High Channel – 2 input signals



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8.4 Test data for Spurious Emission W/Modulation

8.4.1 Test Result for VHF Band

-. Test Date : November 09, 2009

-. Temperature : 24 °C -. Relative humidity : 47 % R.H.

-. Test Result : Pass

-. Modulation : FM with 2.5 kHz sine wave signal

Channel Spacing (kHz)	Modulation (kHz)	Channel	Measured
25	2.5	Low	<-13 dBm
		High	<-13 dBm
12.5	2.5	Low	<-13 dBm
		High	<-13 dBm

Remark: Intermodulation products must be attenuated below the rated power of the EUT at least 43 + 10log (Pw), equivalent to -13 dBm. Please refer to test data hereinafter.

-. Modulation : FM with an external 9 600 b/s random data source

Channel Spacing (kHz)	Modulation (kHz)	Channel	Measured
25	9 600	Low	< -13 dBm
		High	<-13 dBm
12.5	9 600	Low	<-13 dBm
		High	<-13 dBm

Remark: Intermodulation products must be attenuated below the rated power of the EUT at least 43 + 10log (Pw), equivalent to -13 dBm. Please refer to test data hereinafter.



Tested by: Ki-Hong, Nam / Project Engineer



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FM with 2.5 kHz sine wave signal, Channel Spacing 25 kHz - Low Channel
FM with 2.5 kHz sine wave signal, Channel Spacing 25 kHz - Low Channel

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FM with 2.5 kHz sine wave signal, Channel Spacing 25 kHz - Low Channel
FM with 2.5 kHz sine wave signal, Channel Spacing 25 kHz - Low Channel

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FM with 2.5 kHz sine wave signal, Channel Spacing 25 kHz - Low Channel
FM with 2.5 kHz sine wave signal, Channel Spacing 25 kHz - Low Channel

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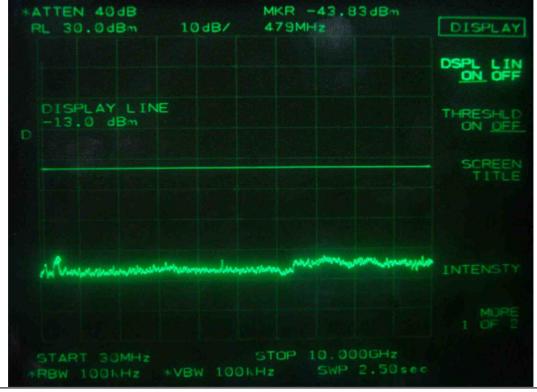
HEAD OFFICE : #505 SK Apt. Factory 223-28, Sangdaewon1-dong, Jungwon-gu, Seongnam-si, Gyeonggi-do 462-705 Korea

(TEL: +82-31-746-8500, FAX: +82-31-746-8700)

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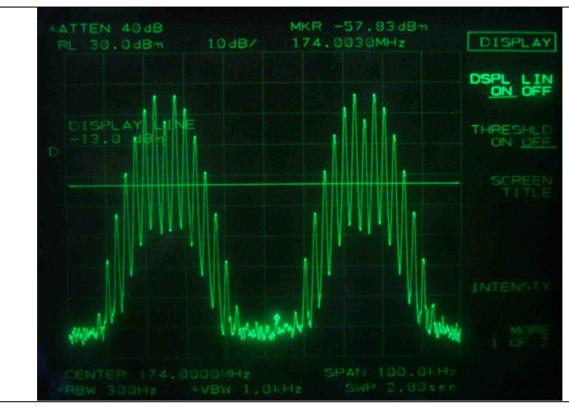
FM with 2.5 kHz sine wave signal, Channel Spacing 25 kHz - Low Channel



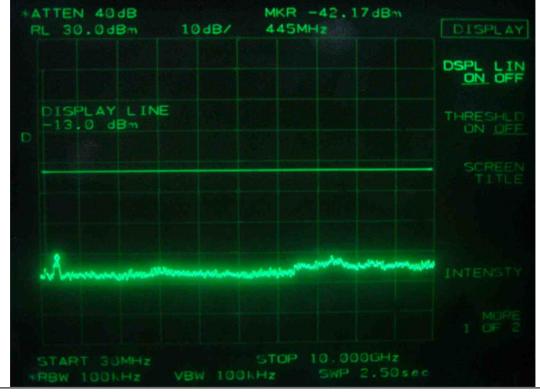
FM with 2.5 kHz sine wave signal, Channel Spacing 25 kHz - Low Channel



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FM with 2.5 kHz sine wave signal, Channel Spacing 25 kHz - High Channel



FM with 2.5 kHz sine wave signal, Channel Spacing 25 kHz - High Channel

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FM with 2.5 kHz sine wave signal, Channel Spacing 12.5 kHz - Low Channel



FM with 2.5 kHz sine wave signal, Channel Spacing 12.5 kHz - Low Channel

FCC ID. : W6U150V450U Report No.: E09NR-036

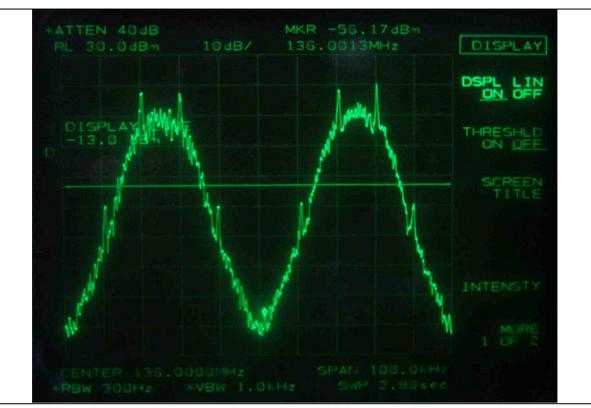


FM with 2.5 kHz sine wave signal, Channel Spacing 12.5 kHz - High Channel

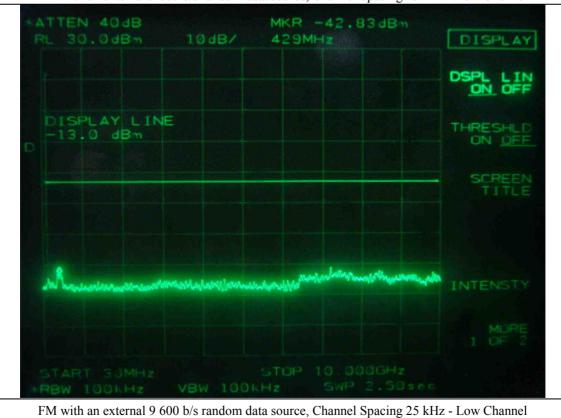


FM with 2.5 kHz sine wave signal, Channel Spacing 12.5 kHz - High Channel

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FM with an external 9 600 b/s random data source, Channel Spacing 25 kHz - Low Channel

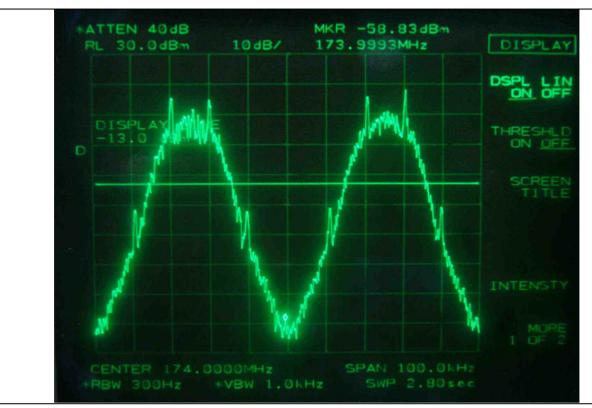


It should not be reproduced except in full, without the written approval of ONETECH.

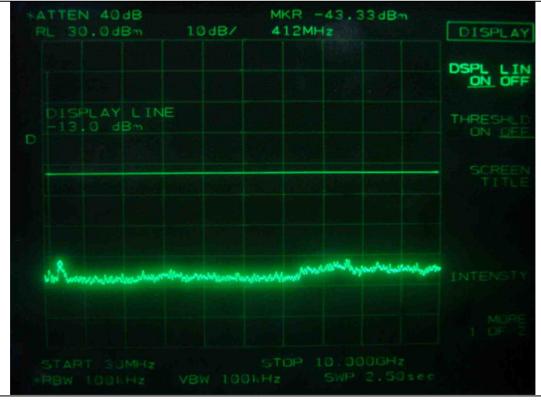
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FCC ID. : W6U150V450U Report No.: E09NR-036



FM with an external 9 600 b/s random data source, Channel Spacing 25 kHz - High Channel



FM with an external 9 600 b/s random data source, Channel Spacing 25 kHz - High Channel

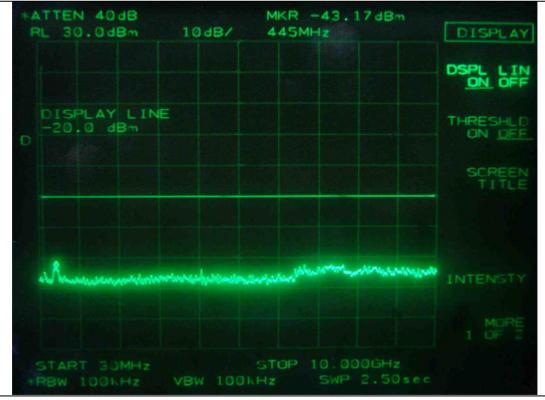
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FM with an external 9 600 b/s random data source, Channel Spacing 12.5 kHz - Low Channel

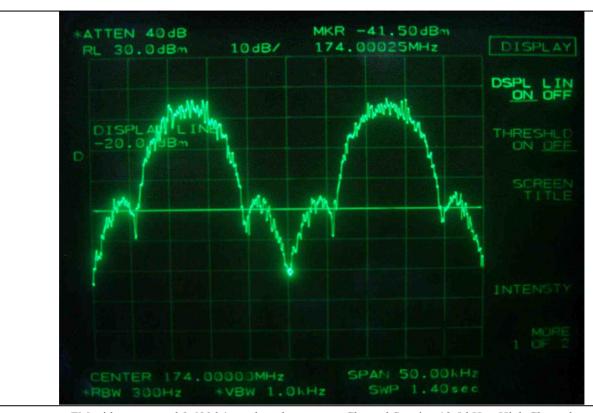


FM with an external 9 600 b/s random data source, Channel Spacing 12.5 kHz - Low Channel

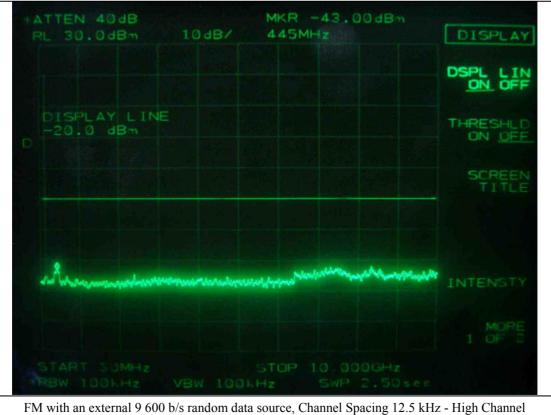
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FM with an external 9 600 b/s random data source, Channel Spacing 12.5 kHz - High Channel



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8.4.2 Test Result for UHF-B1 Band

-. Test Date : November 03, 2009

-. Temperature : 22 °C

-. Relative humidity : 45 % R.H.

-. Test Result : Pass

-. Modulation : FM with 2.5 kHz sine wave signal

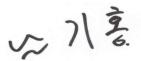
Channel Spacing (kHz)	Modulation (kHz)	Channel	Measured
25	2.5	Low	<-13 dBm
		High	<-13 dBm
12.5	2.5	Low	<-13 dBm
		High	<-13 dBm
6.25	0.8	Low	<-13 dBm
		High	<-13 dBm

Remark: Intermodulation products must be attenuated below the rated power of the EUT at least 43 + 10log (Pw), equivalent to -13 dBm. Please refer to test data hereinafter.

: FM with an external 9 600 b/s random data source -. Modulation

Channel Spacing (kHz)	Modulation (b/s)	Channel	Measured
25	9 600	Low	<-13 dBm
		High	<-13 dBm
12.5	9 600	Low	<-13 dBm
		High	<-13 dBm
6.25	4 800	Low	<-13 dBm
		High	<-13 dBm

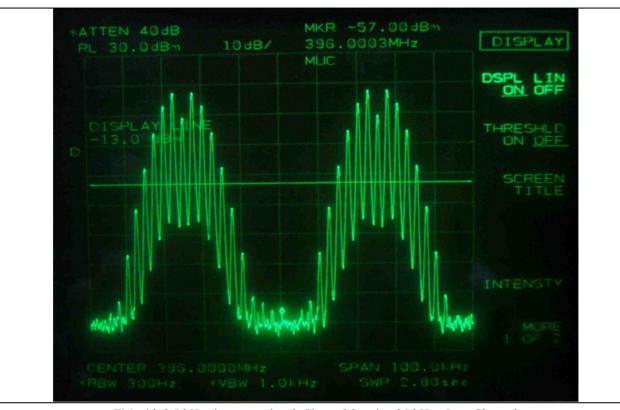
Remark: Intermodulation products must be attenuated below the rated power of the EUT at least 43 + 10log (Pw), equivalent to -13 dBm. Please refer to test data hereinafter.



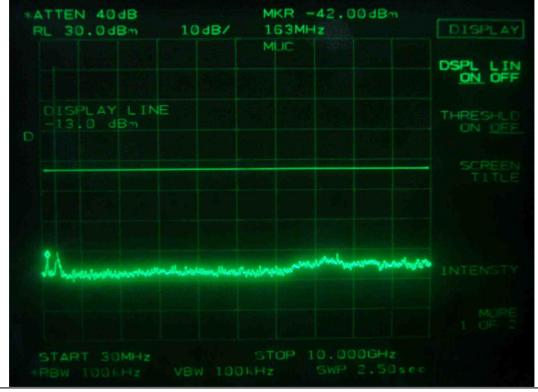
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FM with 2.5 kHz sine wave signal, Channel Spacing 25 kHz - Low Channel



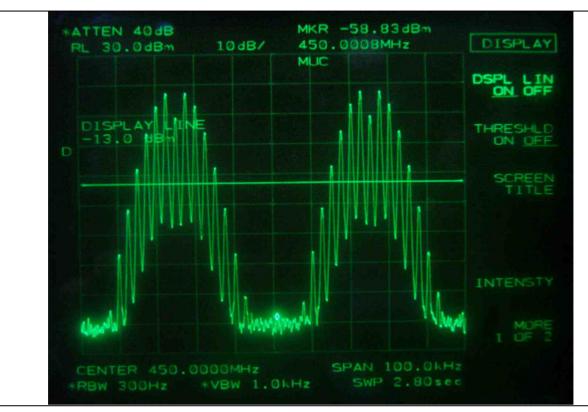
FM with 2.5 kHz sine wave signal, Channel Spacing 25 kHz - Low Channel

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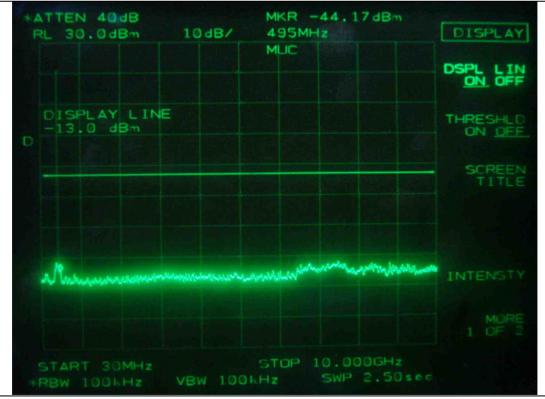
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FM with 2.5 kHz sine wave signal, Channel Spacing 25 kHz - High Channel



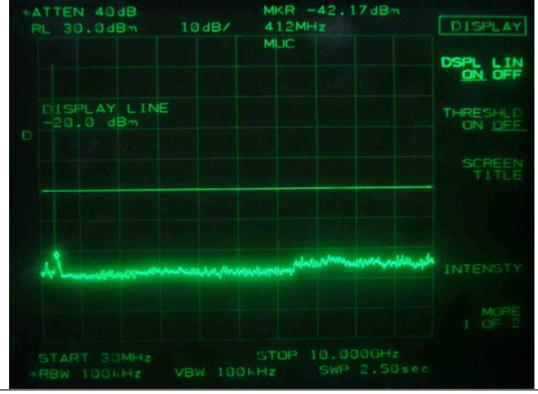
FM with 2.5 kHz sine wave signal, Channel Spacing 25 kHz - High Channel



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FM with 2.5 kHz sine wave signal, Channel Spacing 12.5 kHz - Low Channel

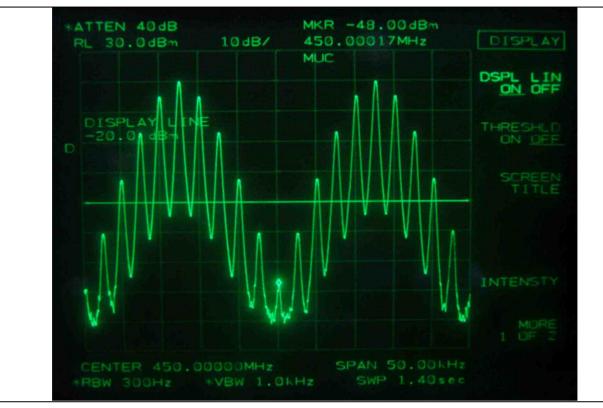


FM with 2.5 kHz sine wave signal, Channel Spacing 12.5 kHz - Low Channel

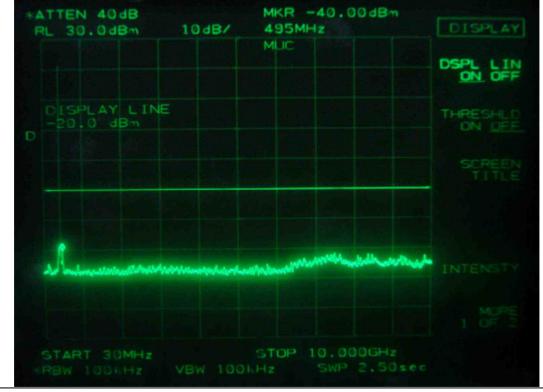
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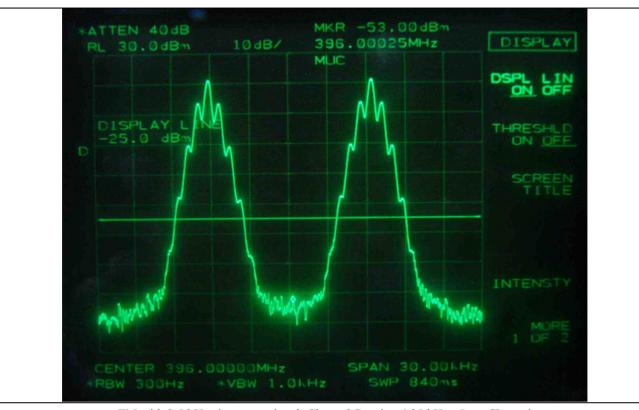
FM with 2.5 kHz sine wave signal, Channel Spacing 12.5 kHz - High Channel



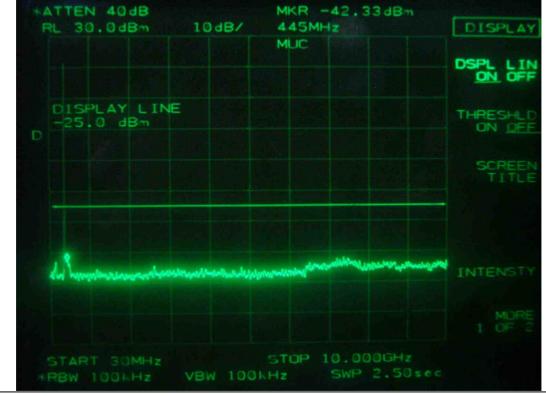
FM with 2.5 kHz sine wave signal, Channel Spacing 12.5 kHz - High Channel



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FM with 2.5 kHz sine wave signal, Channel Spacing 6.25 kHz - Low Channel

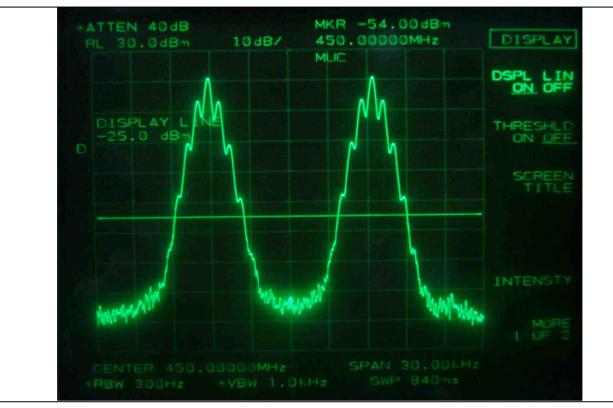


FM with 2.5 kHz sine wave signal, Channel Spacing 6.25 kHz - Low Channel

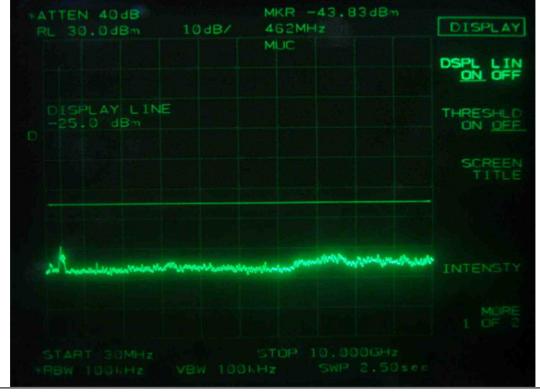
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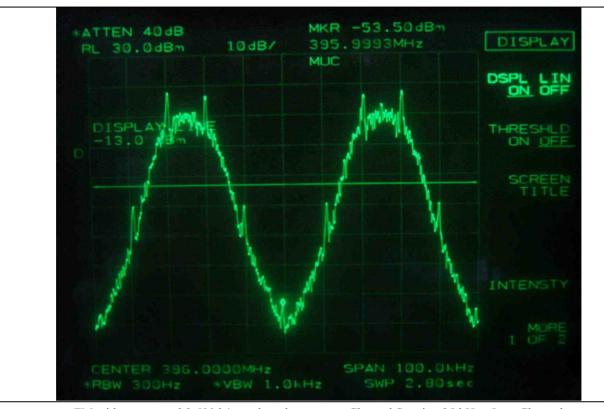
FM with 2.5 kHz sine wave signal, Channel Spacing 6.25 kHz - High Channel



FM with 2.5 kHz sine wave signal, Channel Spacing 6.25 kHz - High Channel



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FM with an external 9 600 b/s random data source, Channel Spacing 25 kHz - Low Channel

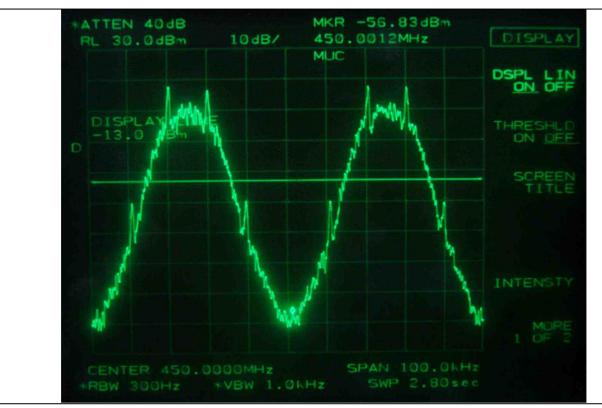


FM with an external 9 600 b/s random data source, Channel Spacing 25 kHz - Low Channel

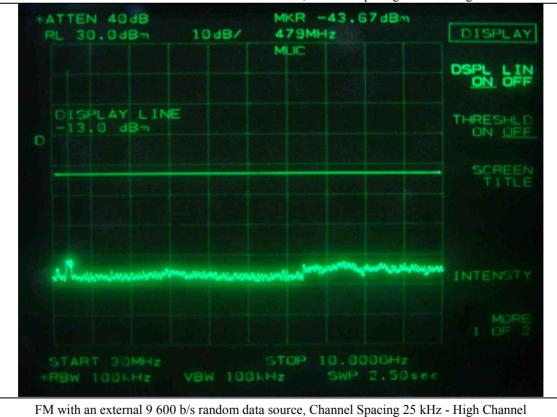
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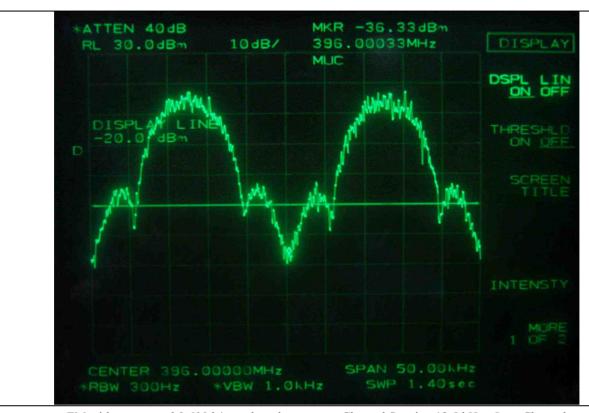
FM with an external 9 600 b/s random data source, Channel Spacing 25 kHz - High Channel



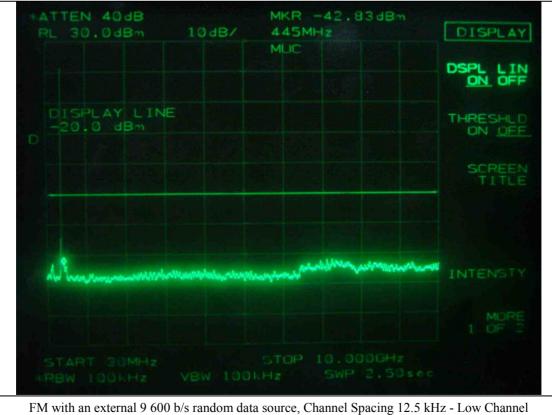
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FM with an external 9 600 b/s random data source, Channel Spacing 12.5 kHz - Low Channel



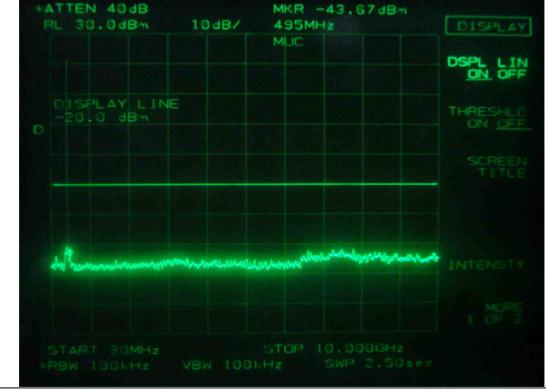
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FM with an external 9 600 b/s random data source, Channel Spacing 12.5 kHz- High Channel



FM with an external 9 600 b/s random data source, Channel Spacing 12.5 kHz - High Channel

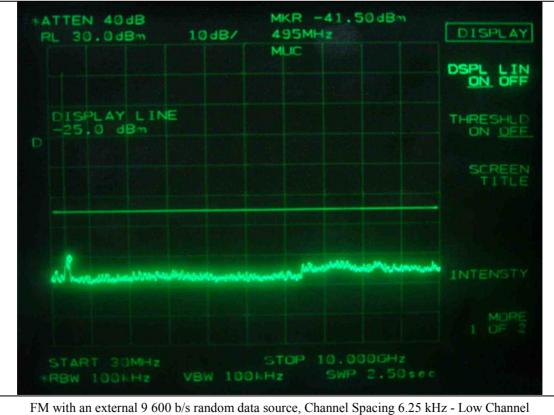
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FM with an external 9 600 b/s random data source, Channel Spacing 6.25 kHz - Low Channel

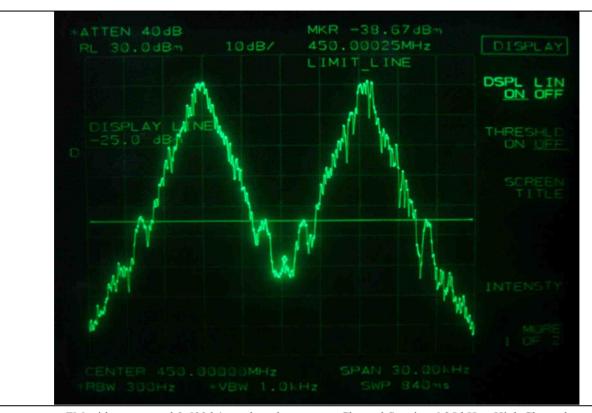


It should not be reproduced except in full, without the written approval of ONETECH.

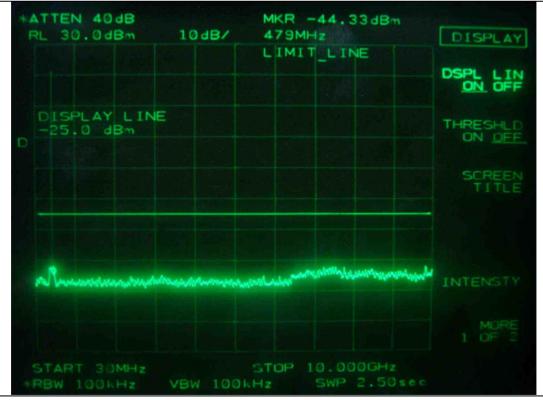
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FM with an external 9 600 b/s random data source, Channel Spacing 6.25 kHz - High Channel



FM with an external 9 600 b/s random data source, Channel Spacing 6.25 kHz - High Channel

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