### 8.3.1 Test Result for peak power at UHF band BII

-. Test Date : November 09, 2009

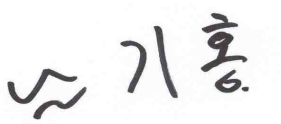
-. Temperature : 24 °C

-. 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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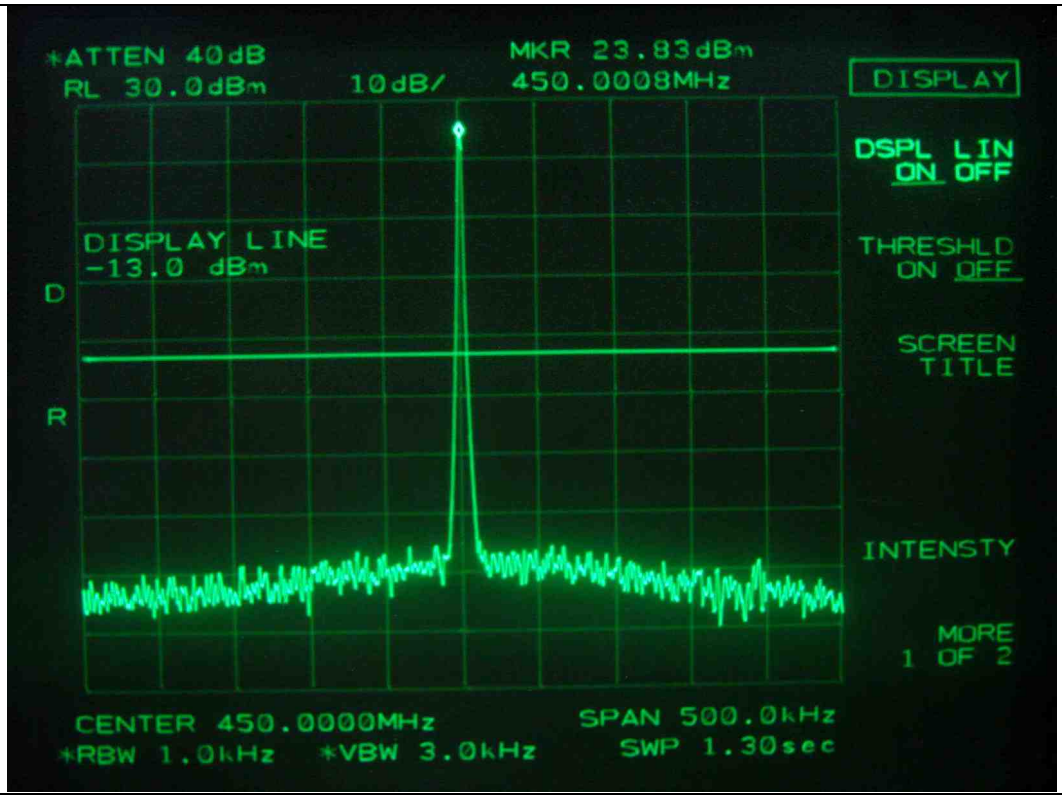
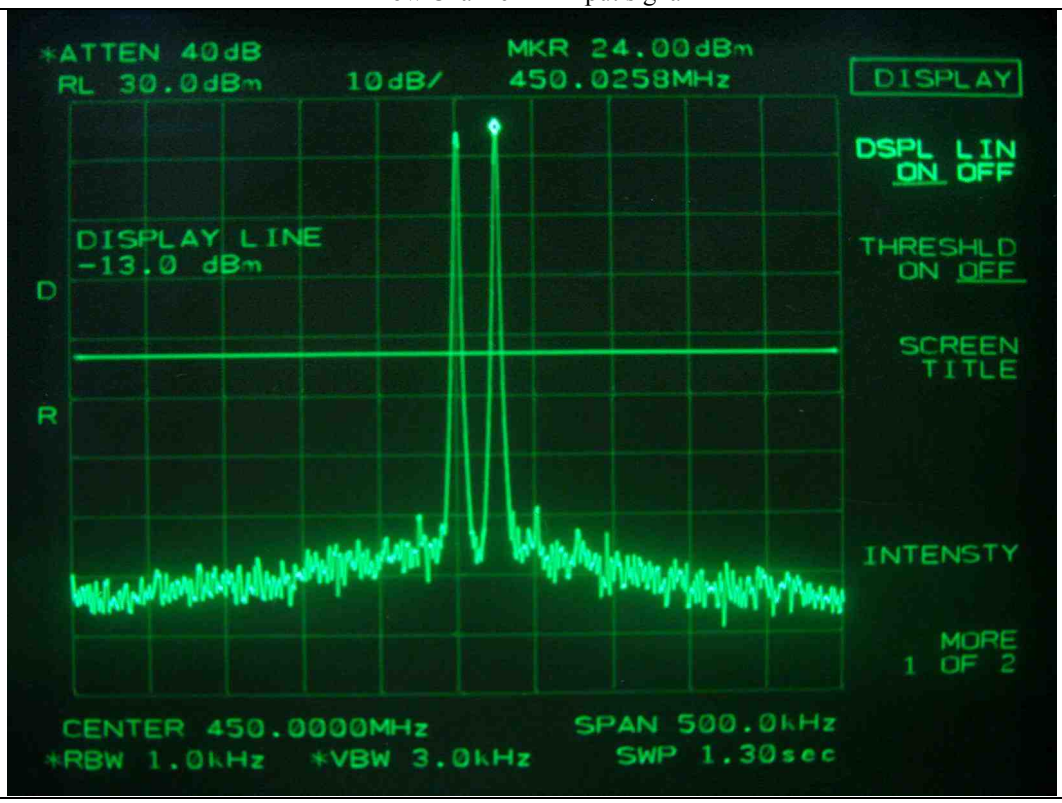



Low Channel – 1 input signal




Low Channel – 2 input signals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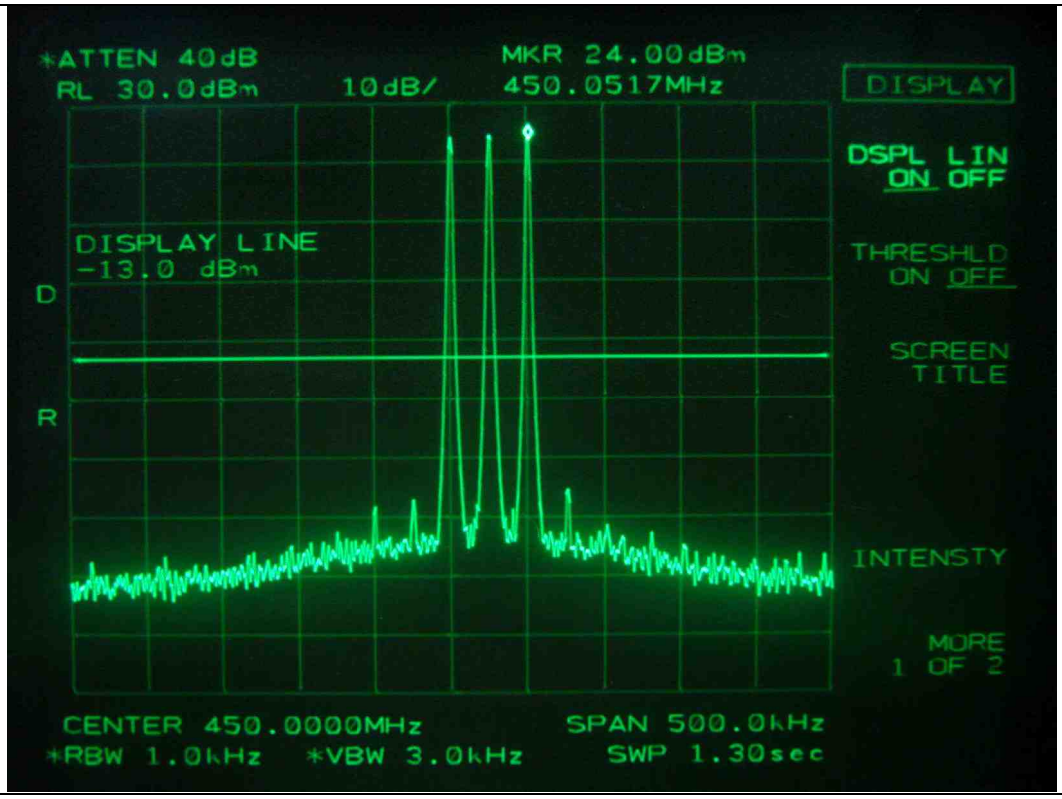
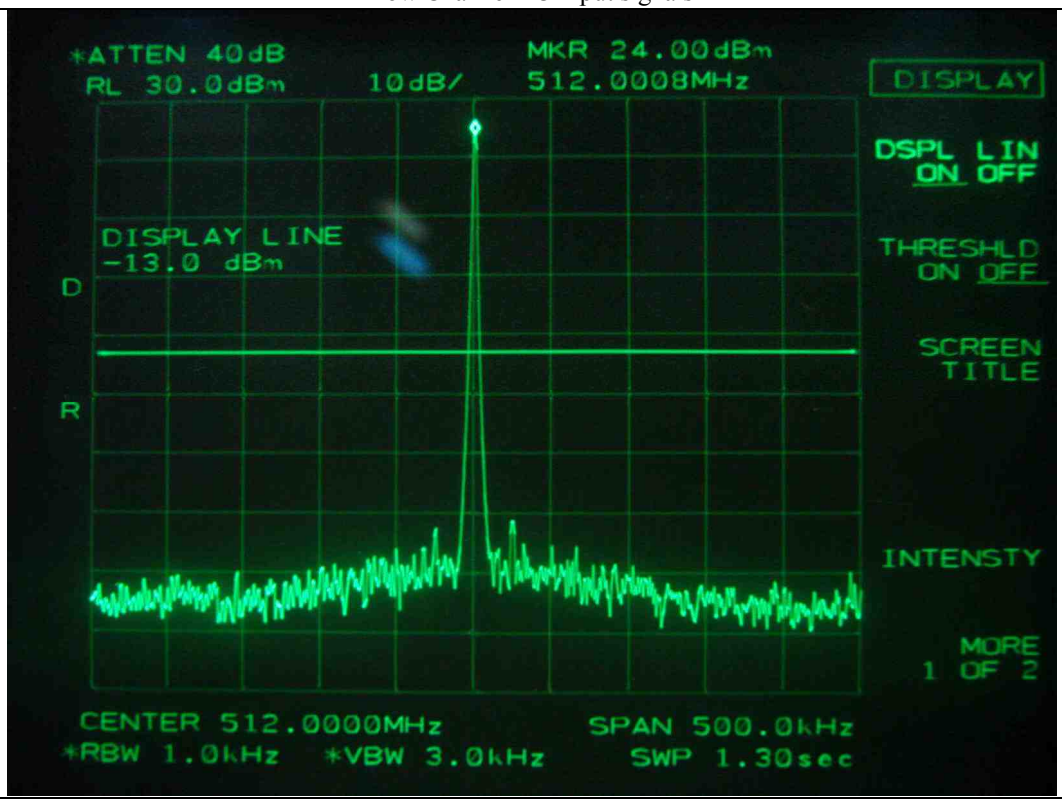



Low Channel – 3 input signals




High Channel – 1 input signal



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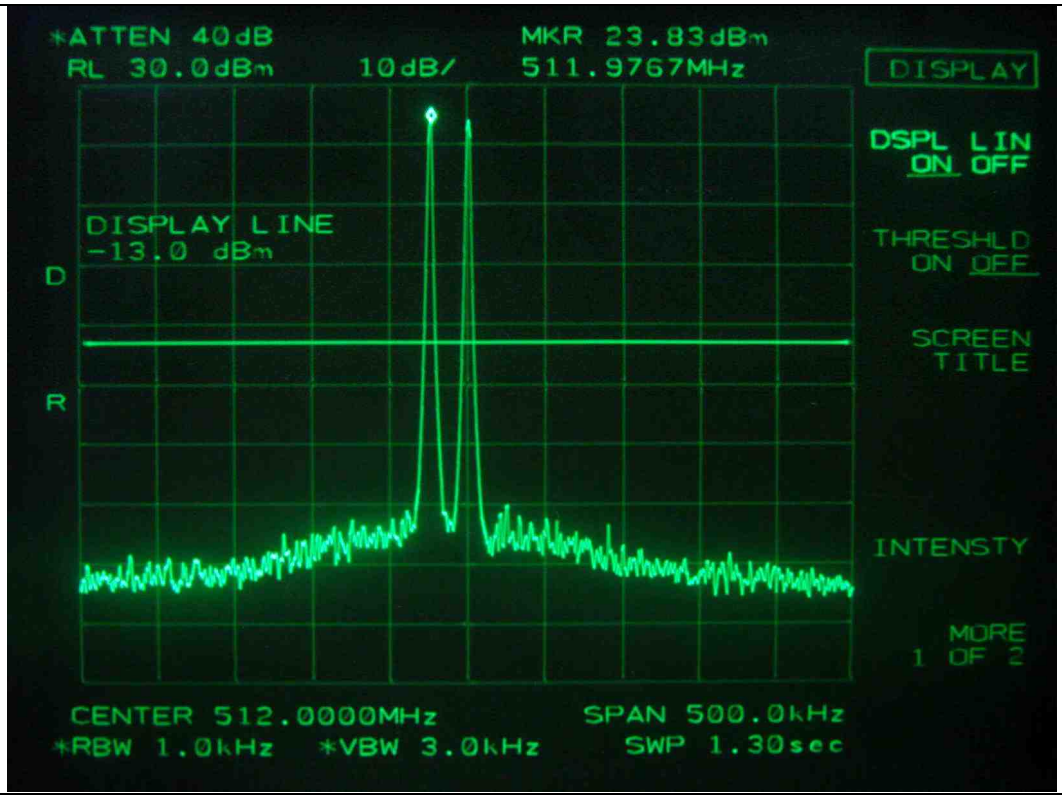
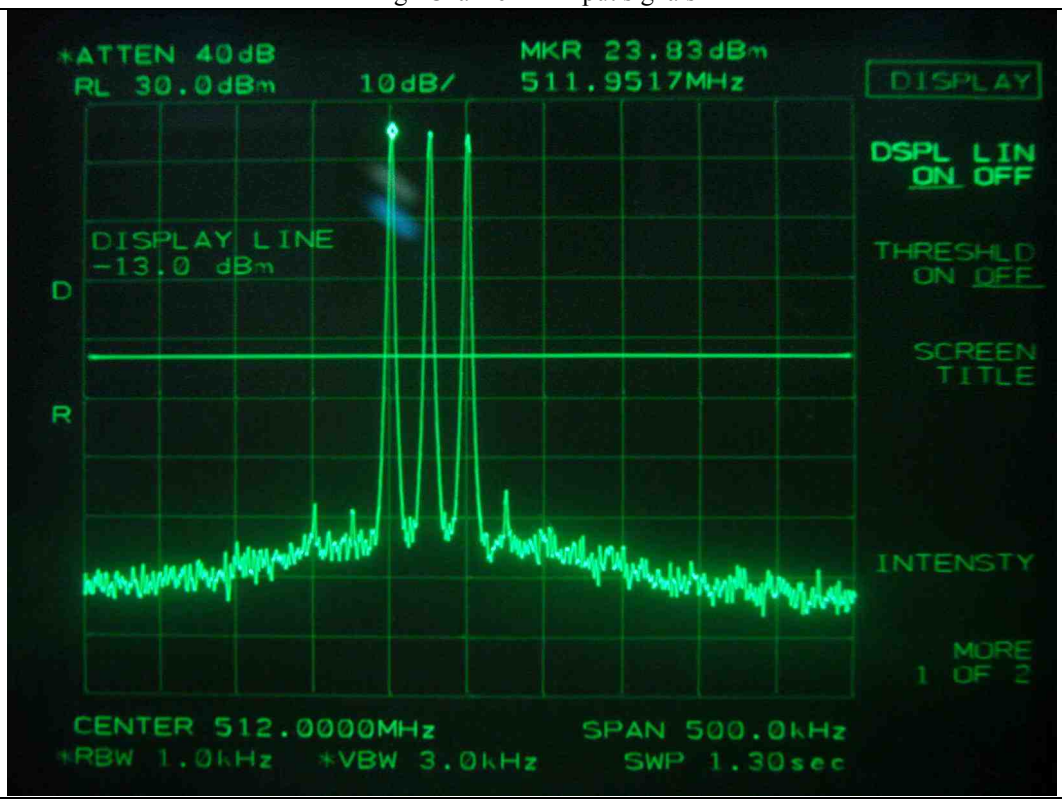



High Channel – 2 input signals




High Channel – 3 input signals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### 8.3.2 Test Result for Spurious emission at VHF band

-. 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 | Measured Value | Result |
|---|---|---|---|
| 450.0 | 1 | < -13 dBm | Pass |
| 450.0 & 450.25 | 2 | | |
| 450, 450.025 & 450.050 | 3 | | |
| 512.0 | 1 | < -13 dBm | Pass |
| 512.0 & 512.975 | 2 | | |
| 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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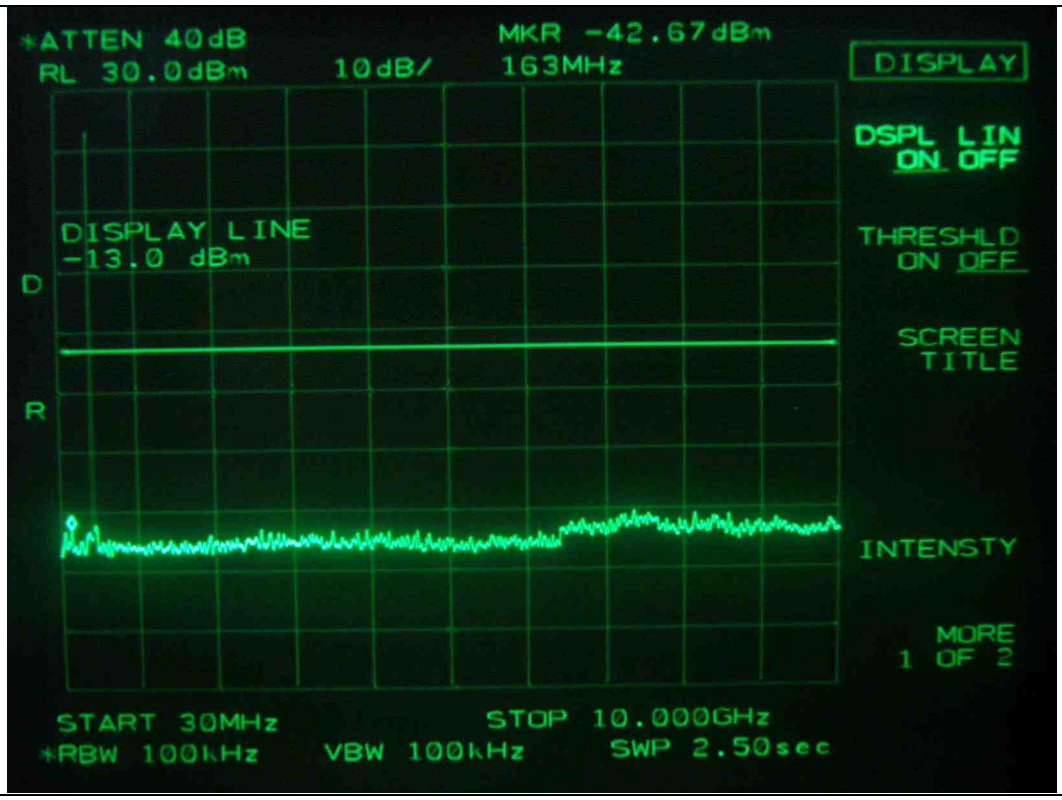
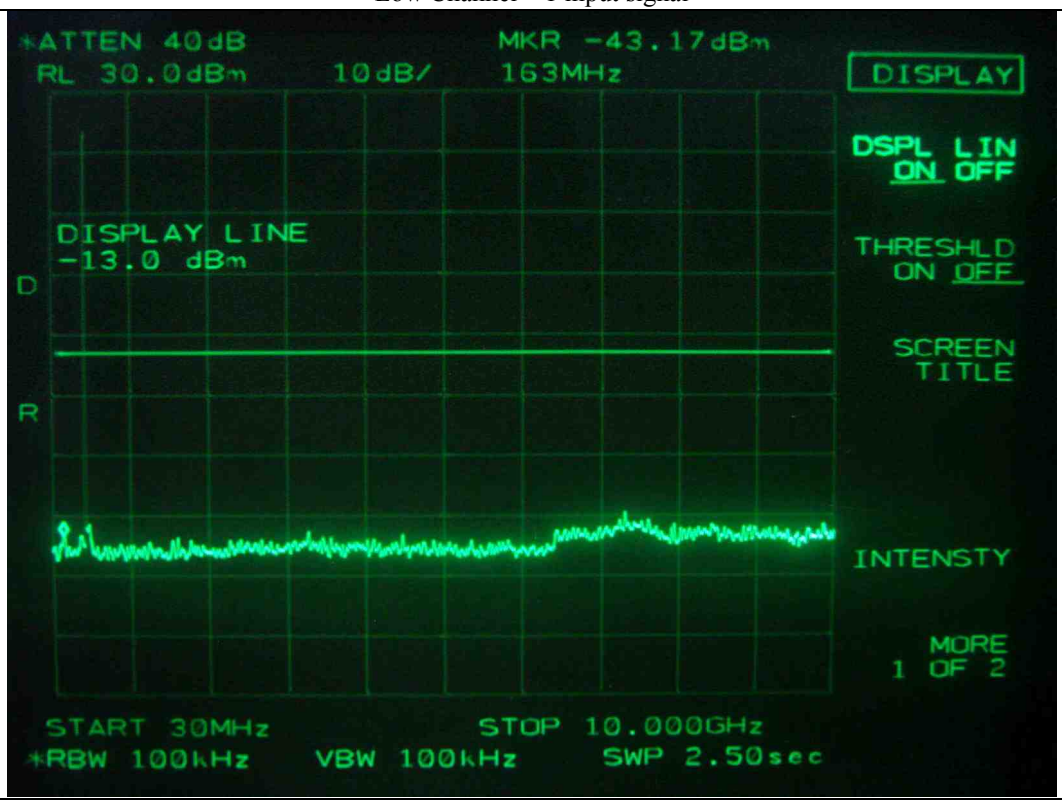



Low Channel – 1 input signal




Low Channel – 2 input signals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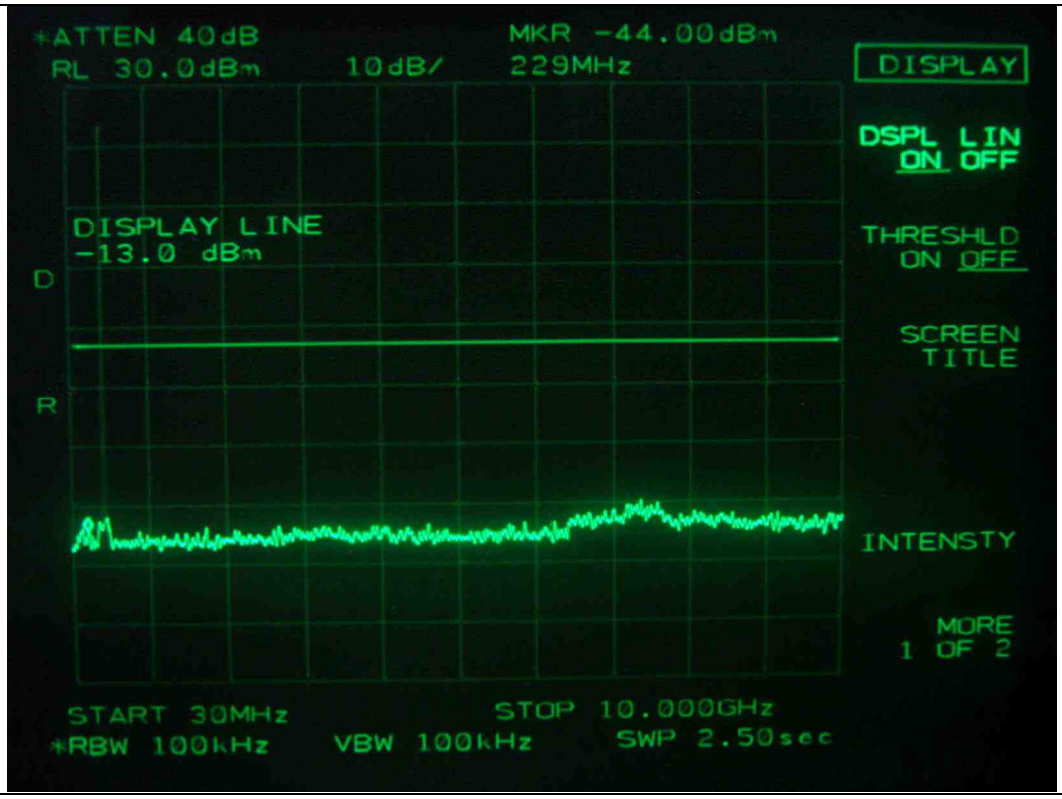
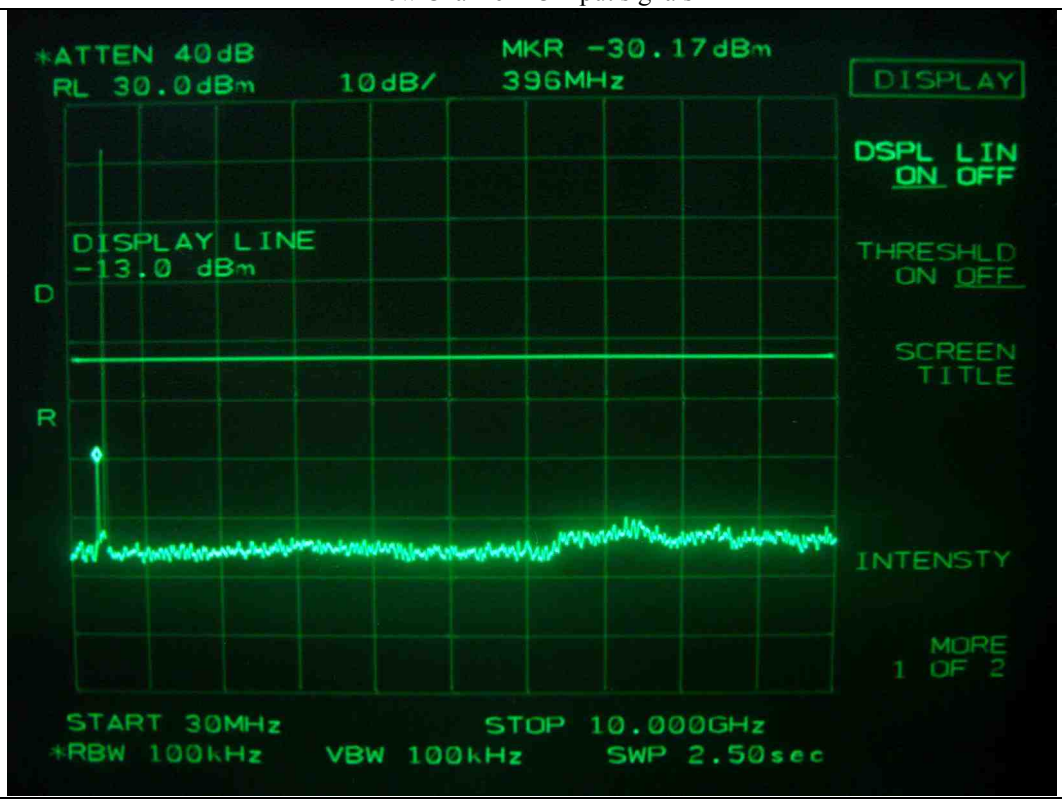



Low Channel – 3 input signals




High Channel – 1 input signal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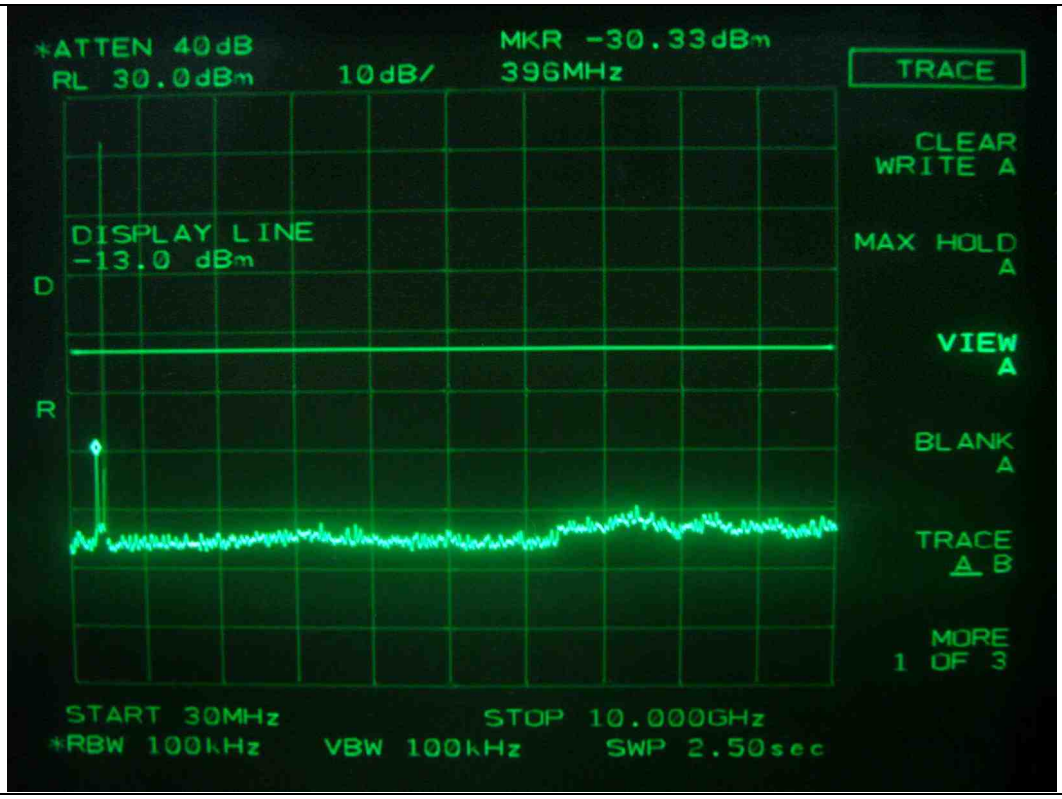
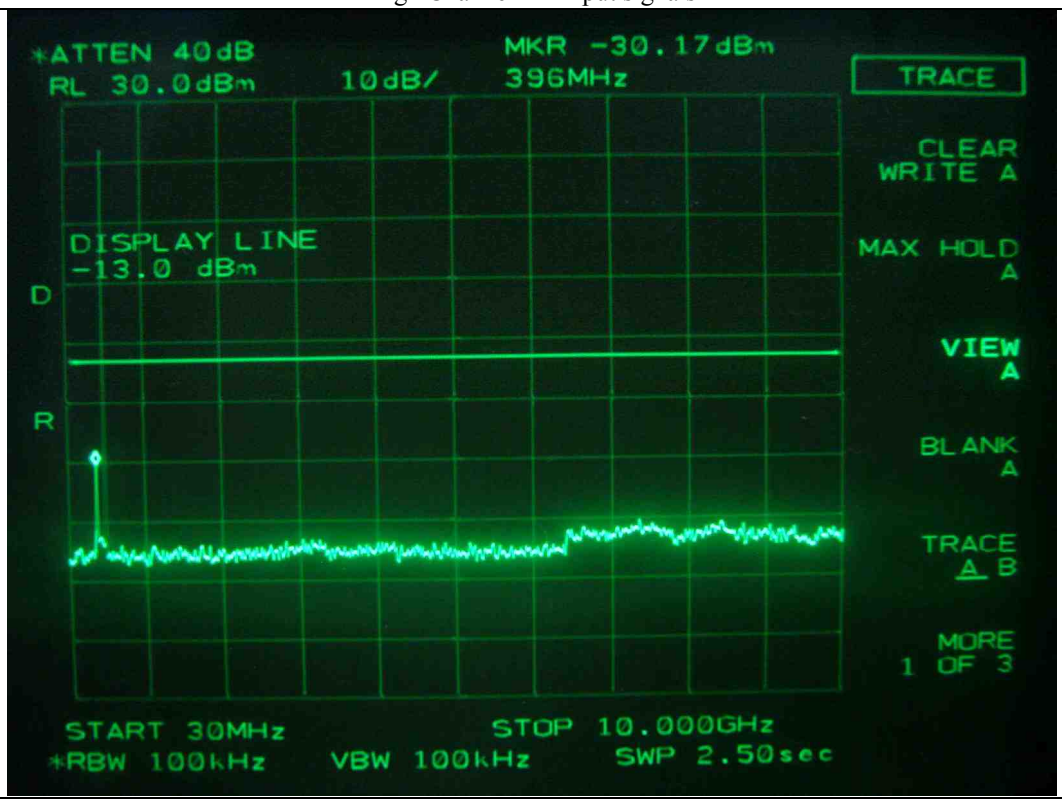



High Channel – 2 input signals




High Channel – 3 input signals


**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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## 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

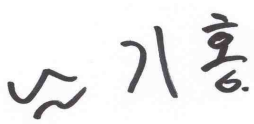
| Channel Spacing (kHz) | Modulation (kHz) | Channel | Measured |
|---|---|---|---|
| 25 | 2.5 | Low | < -13 dBm |
| | | High | < -13 dBm |
| 12.5 | 2.5 | Low | < -13 dBm |
| | | High | < -13 dBm |

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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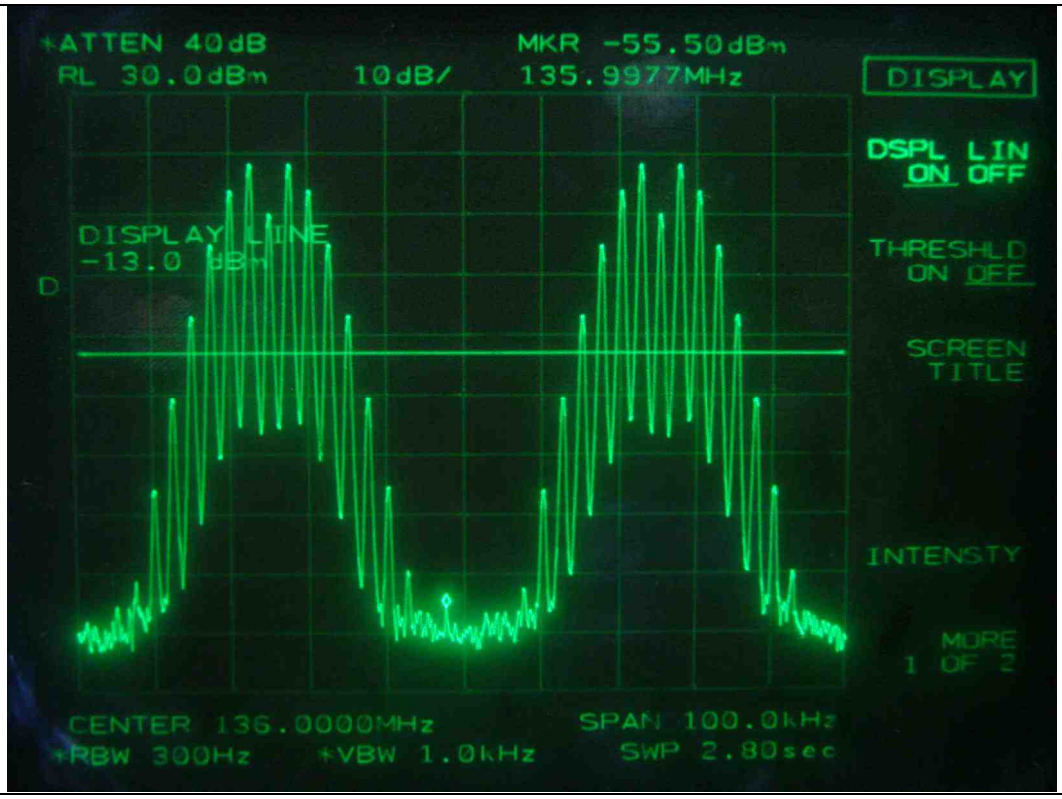
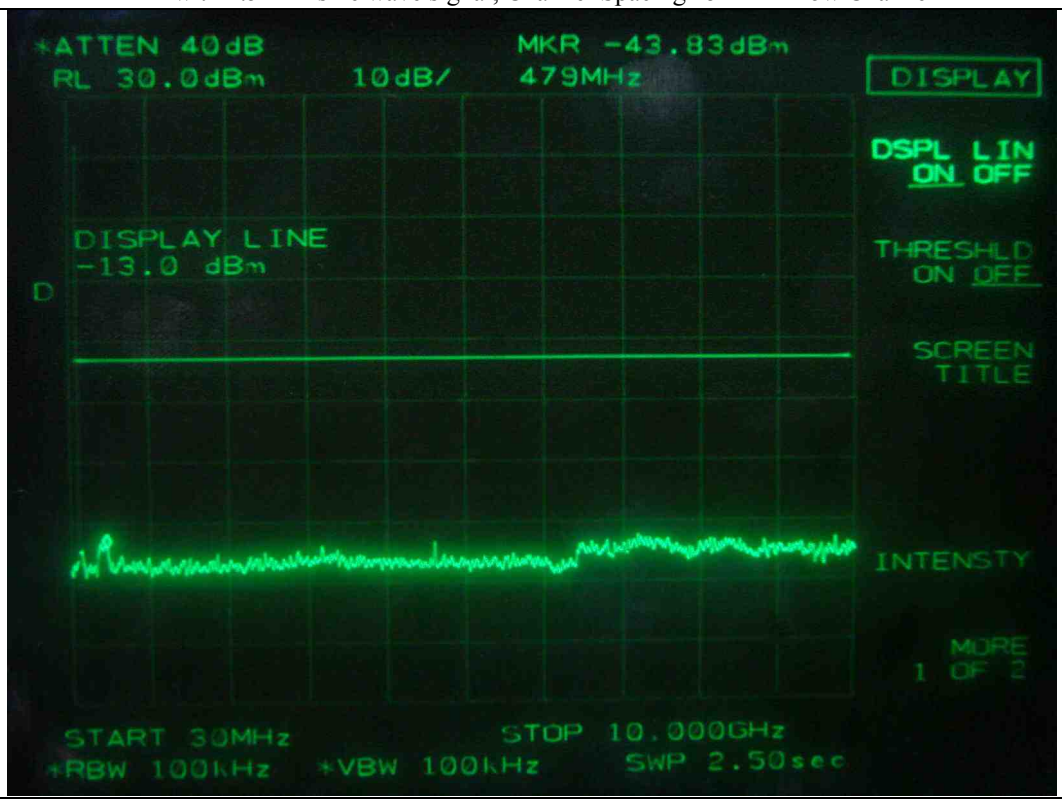



FM with 2.5 kHz sine wave signal, Channel Spacing 25 kHz - Low Channel




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



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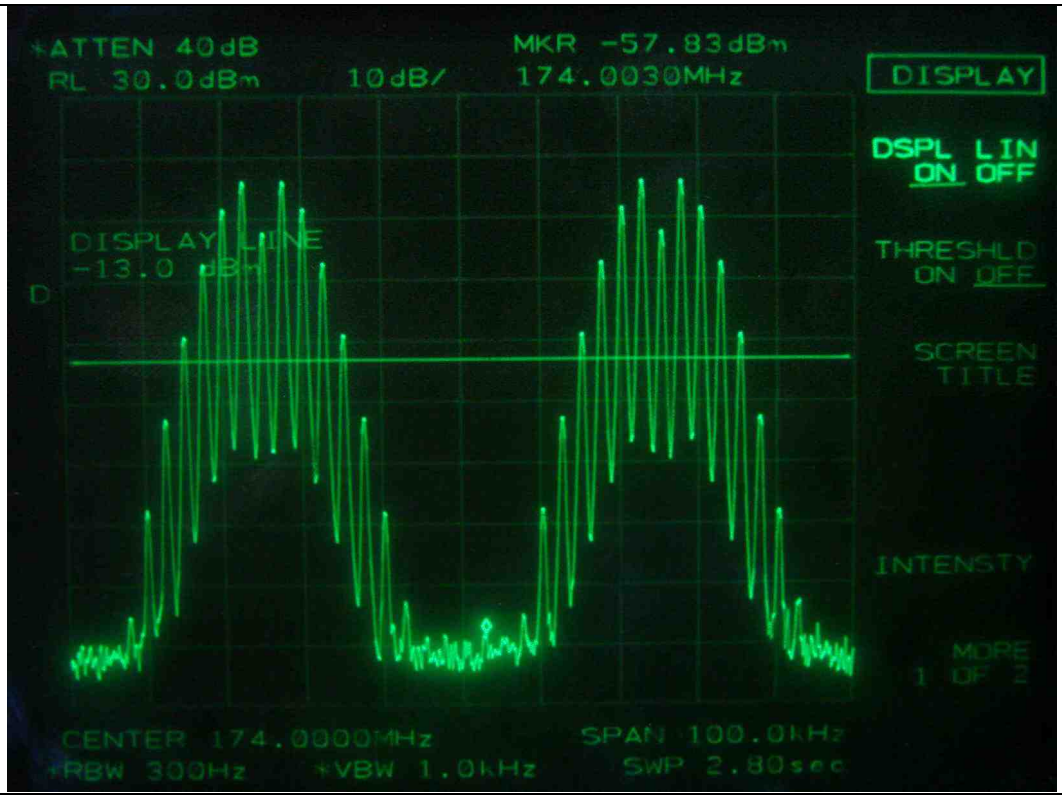
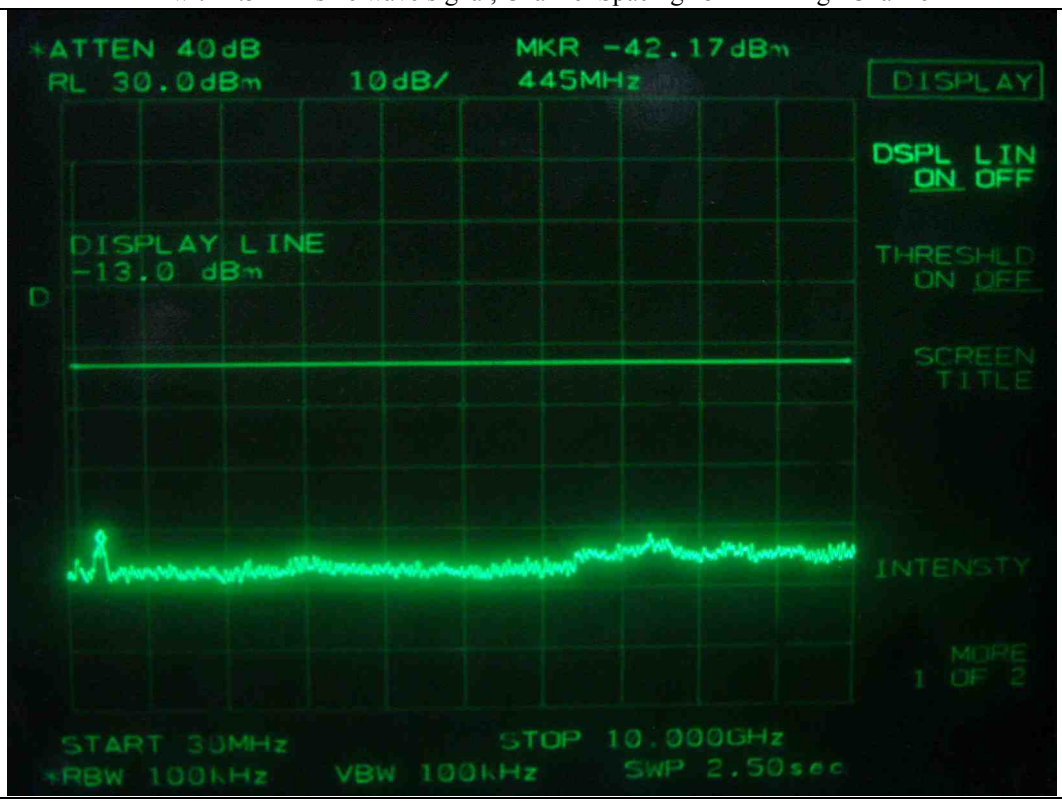



FM with 2.5 kHz sine wave signal, Channel Spacing 25 kHz - High Channel




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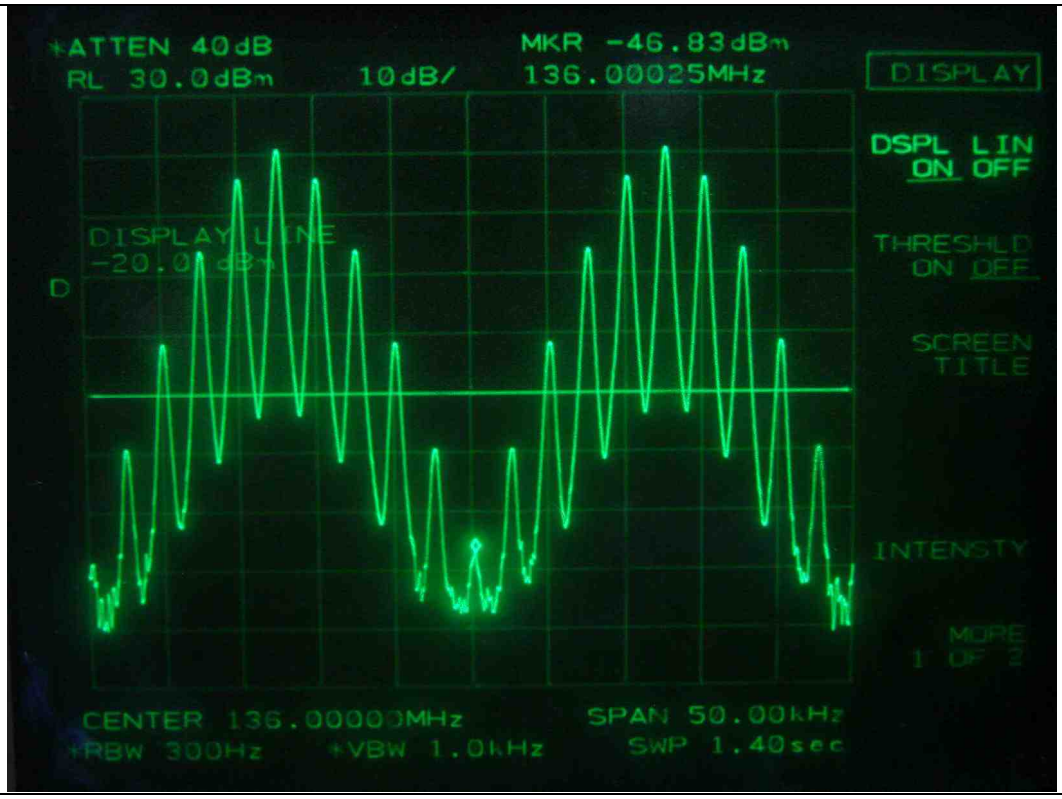
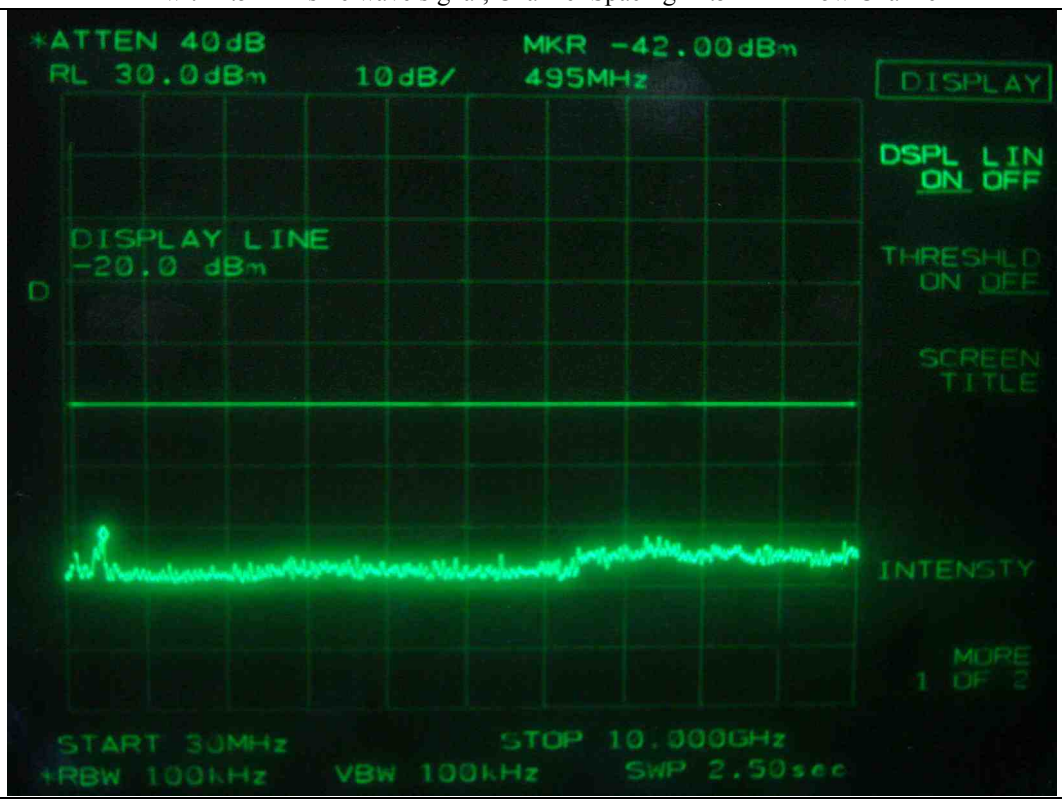



FM with 2.5 kHz sine wave signal, Channel Spacing 12.5 kHz - Low Channel




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



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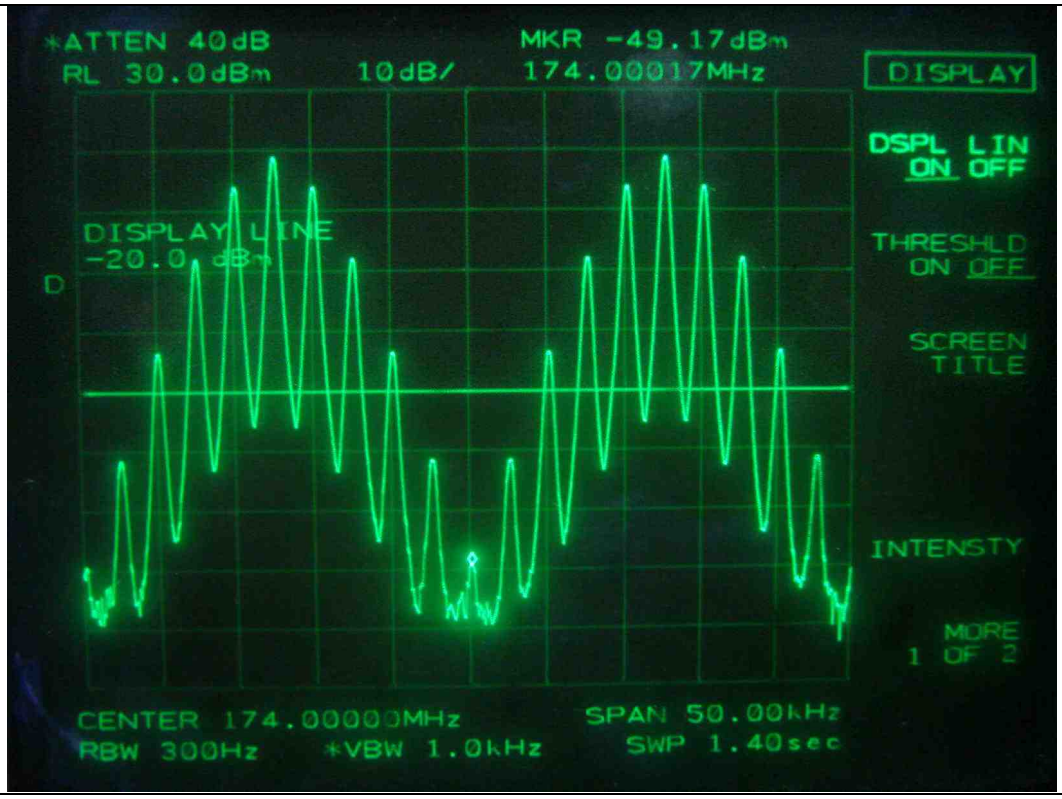
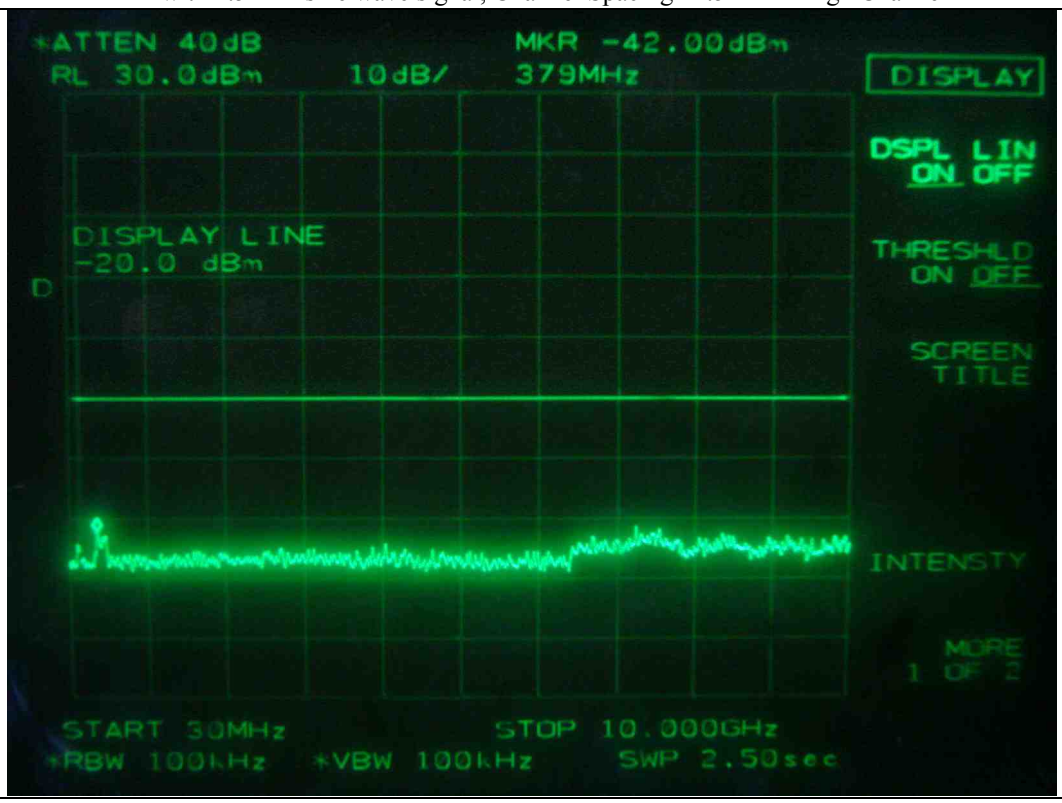



FM with 2.5 kHz sine wave signal, Channel Spacing 12.5 kHz - High Channel




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



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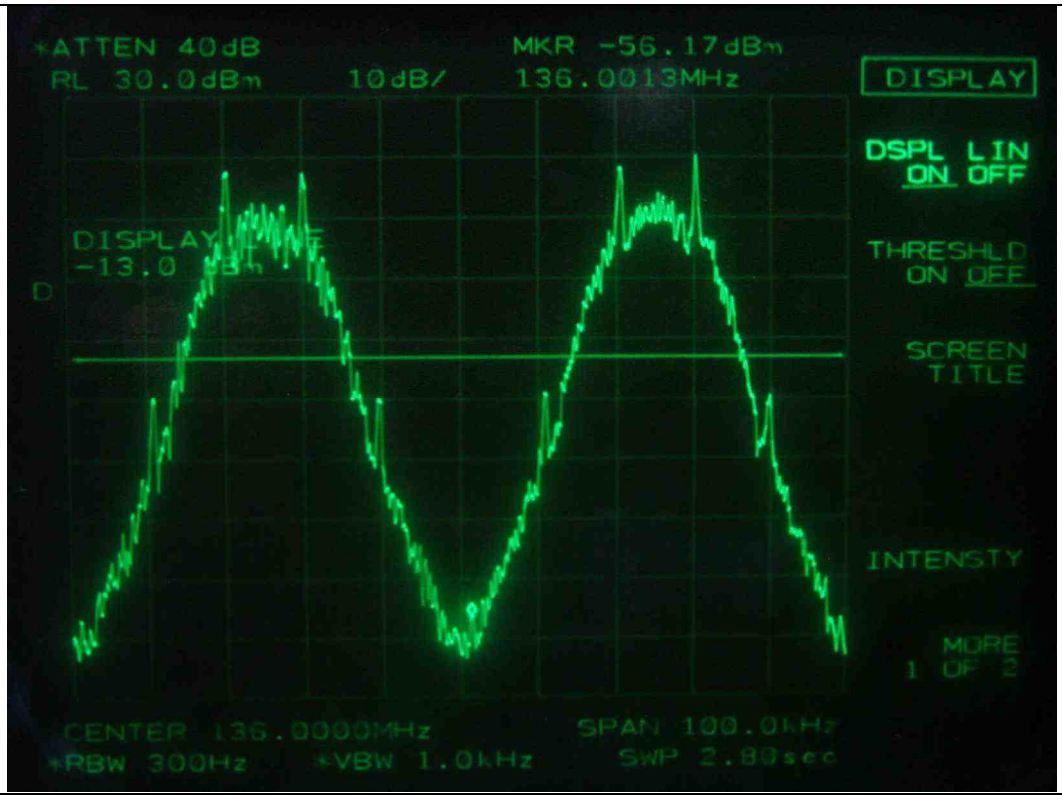
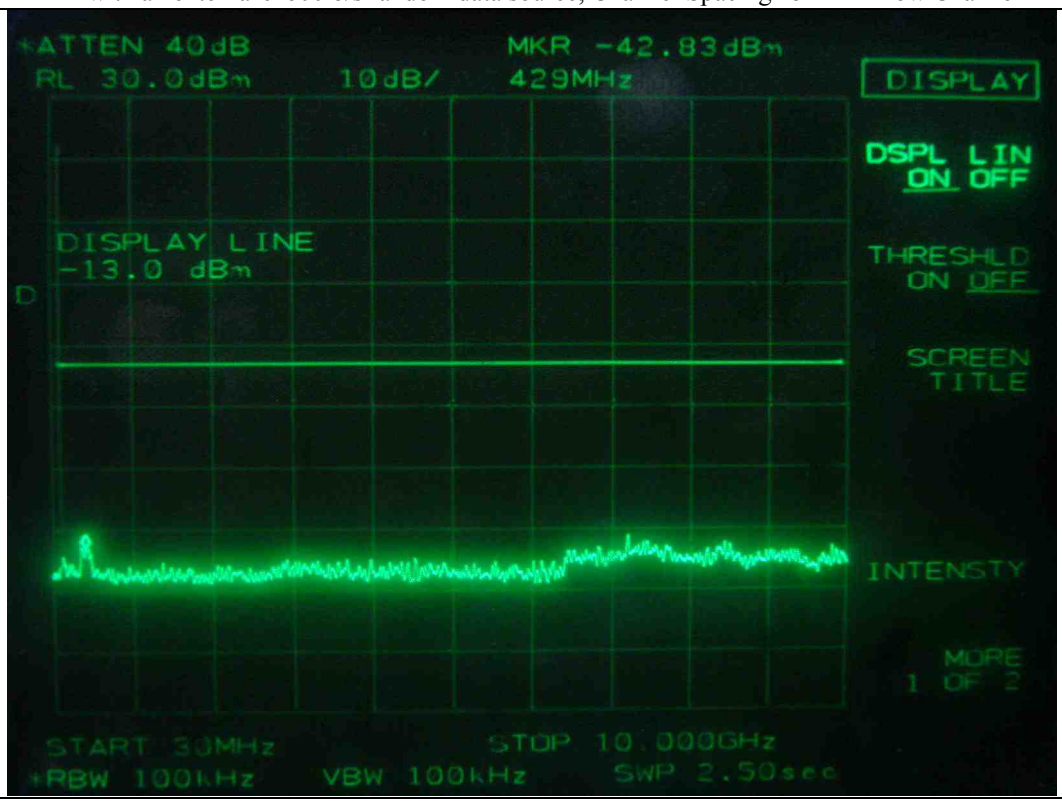



FM with an external 9 600 b/s random data source, Channel Spacing 25 kHz - Low Channel




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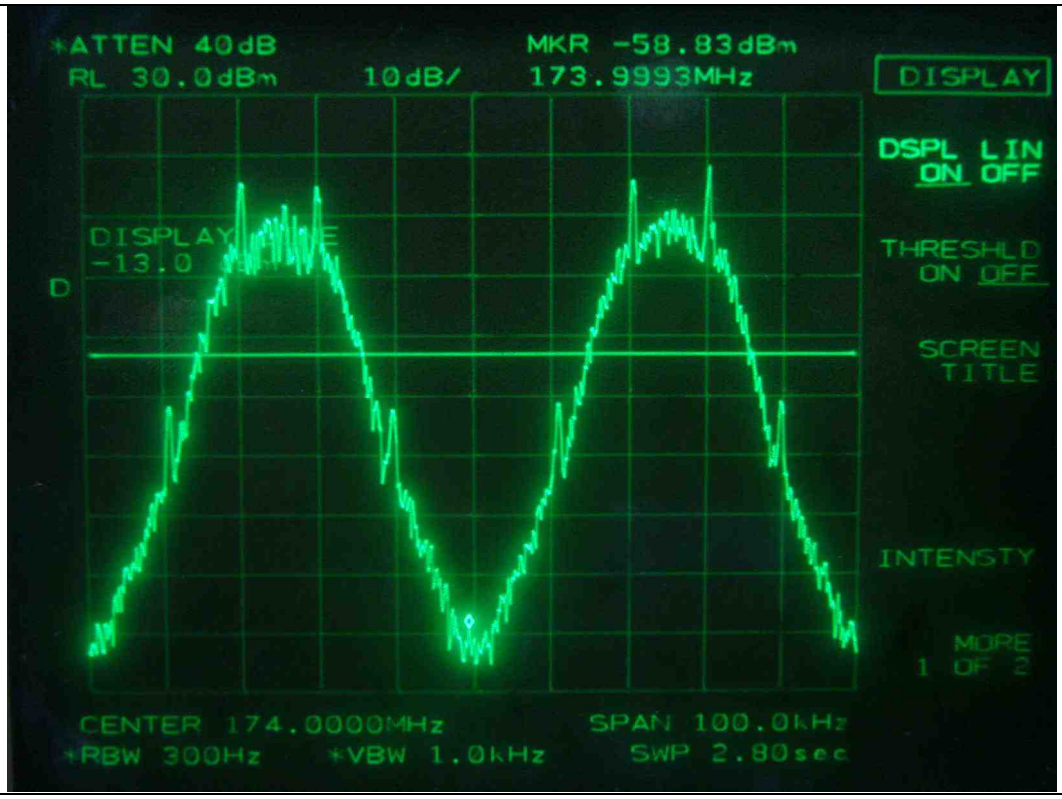
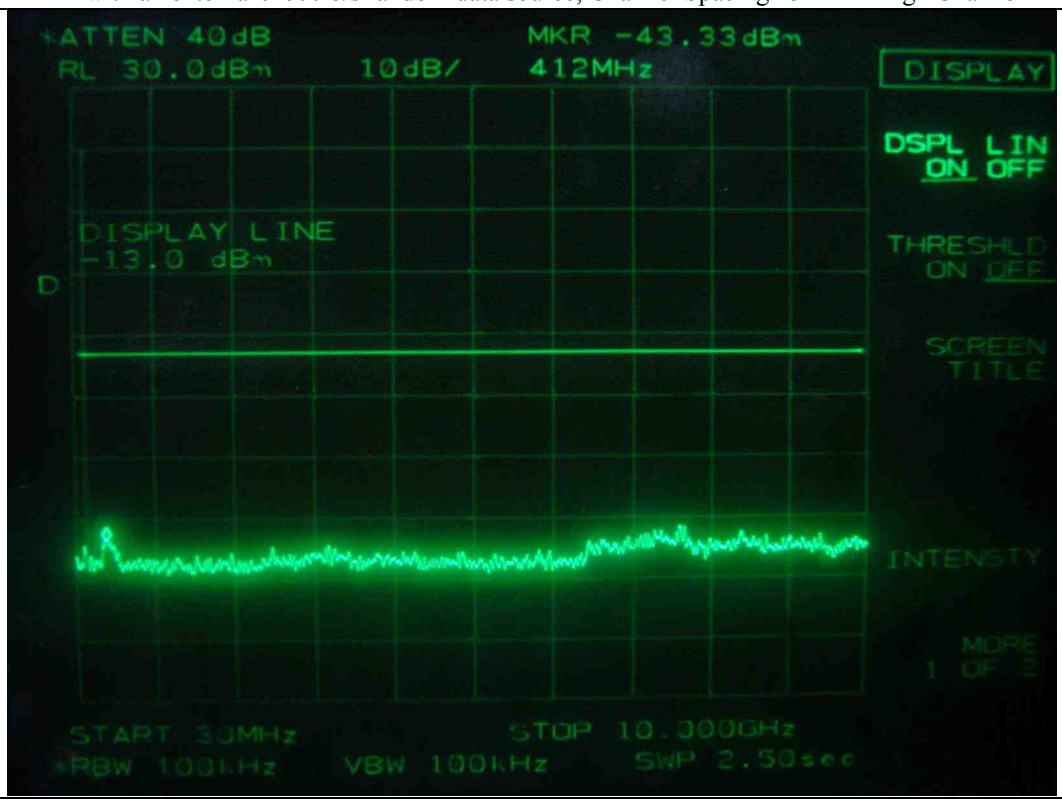



FM with an external 9 600 b/s random data source, Channel Spacing 25 kHz - High Channel




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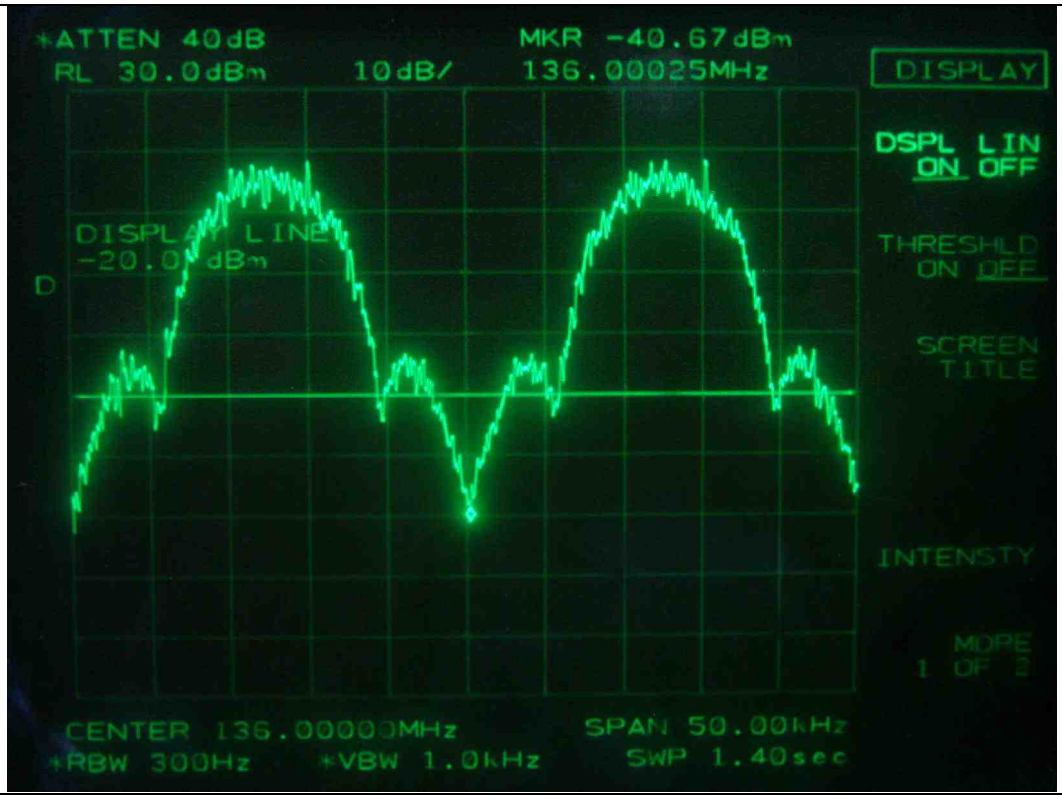
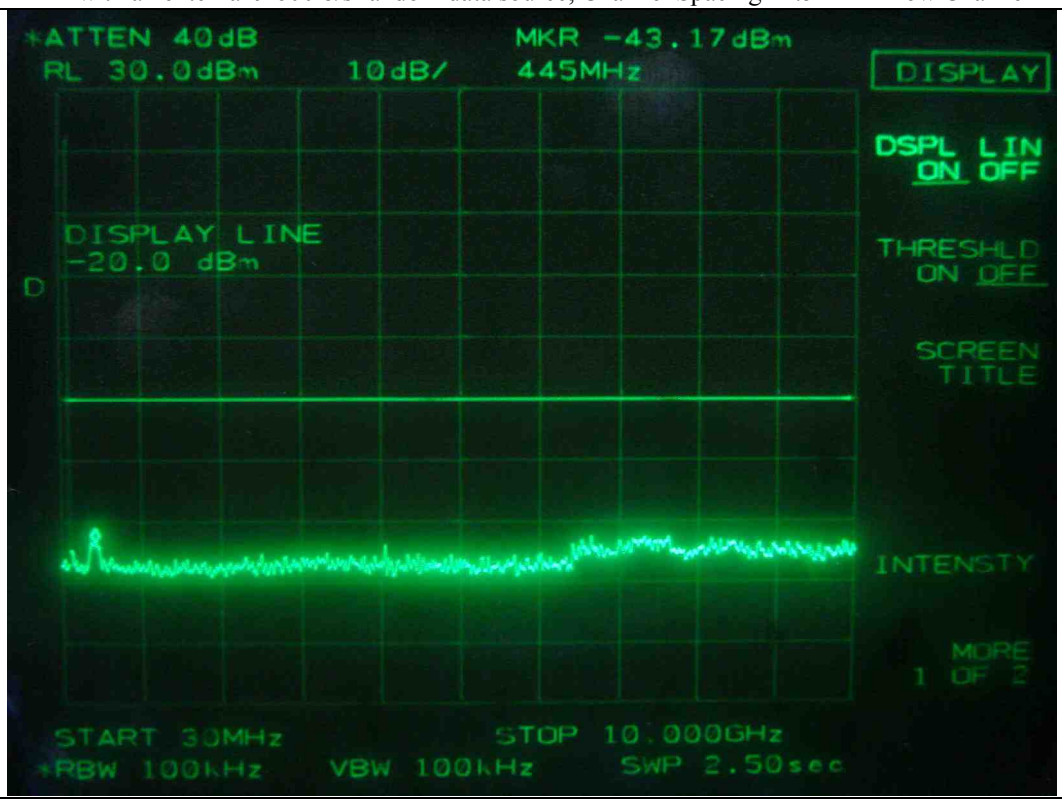



FM with an external 9 600 b/s random data source, Channel Spacing 12.5 kHz - Low Channel




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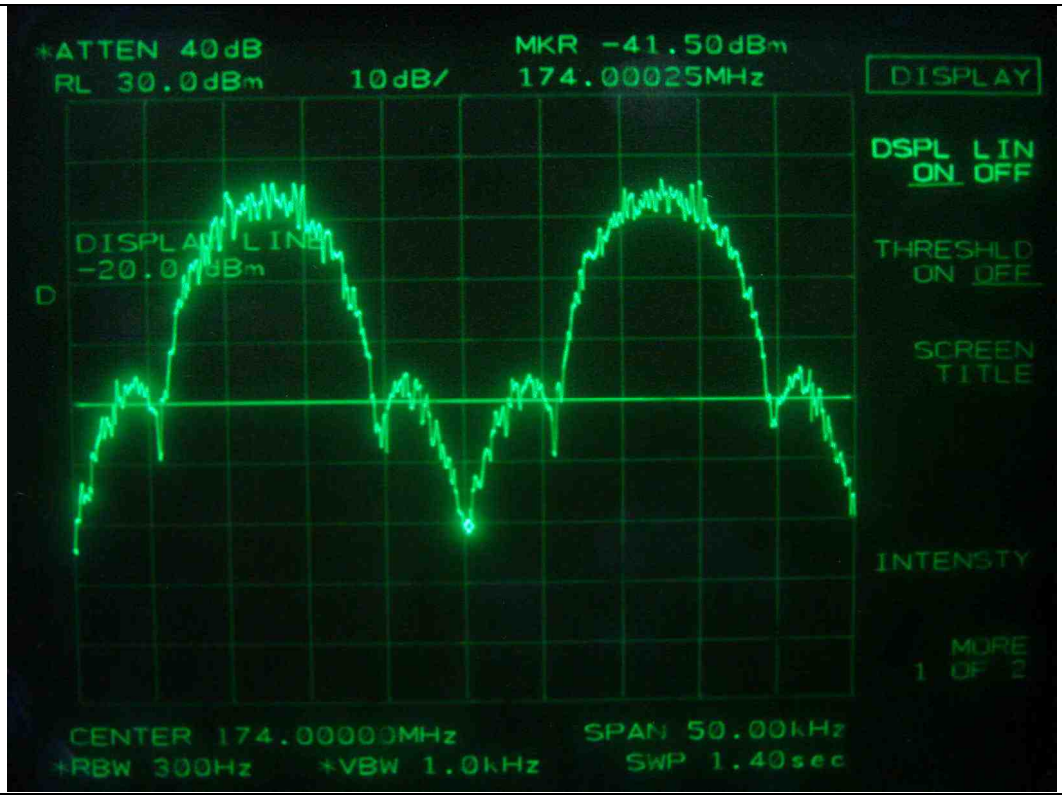
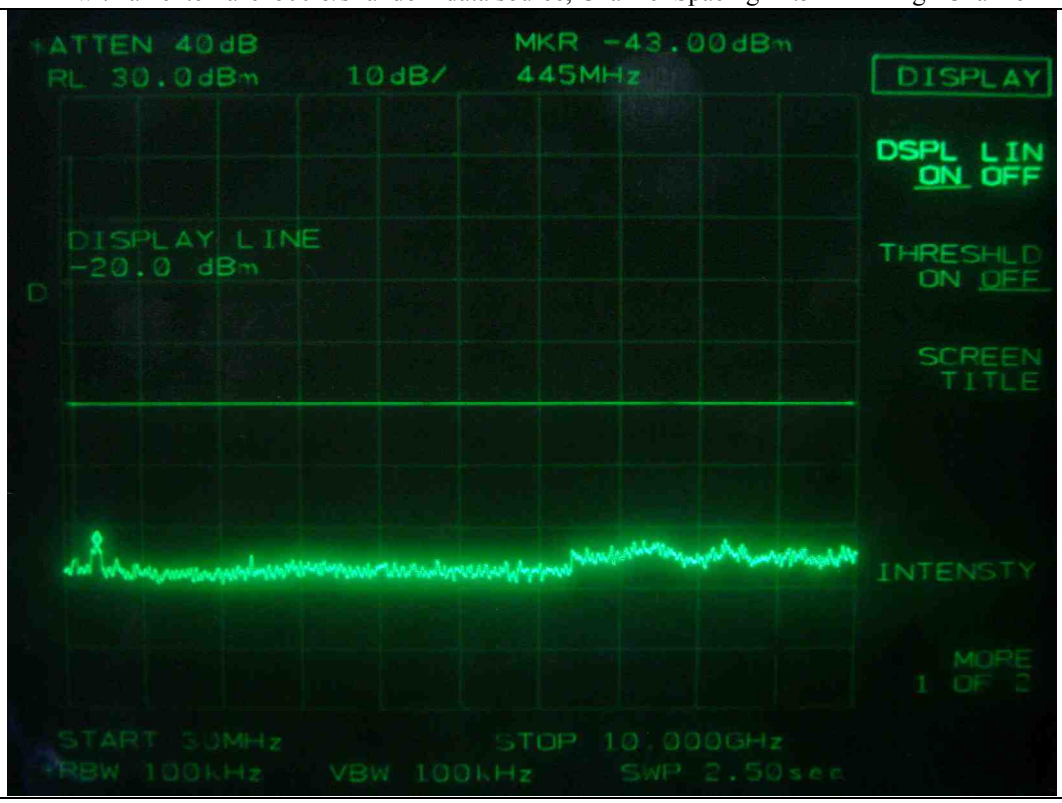



FM with an external 9 600 b/s random data source, Channel Spacing 12.5 kHz - High Channel




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.

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

| 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.

**Tested by: Ki-Hong, Nam / Project Engineer**



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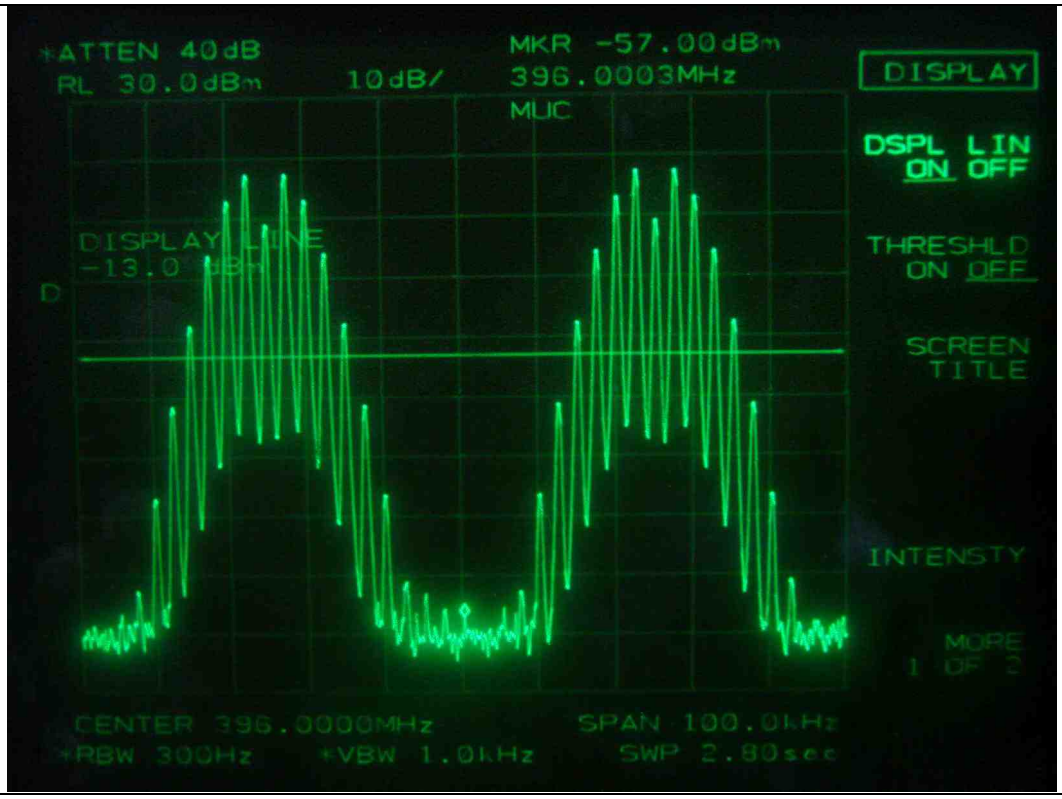
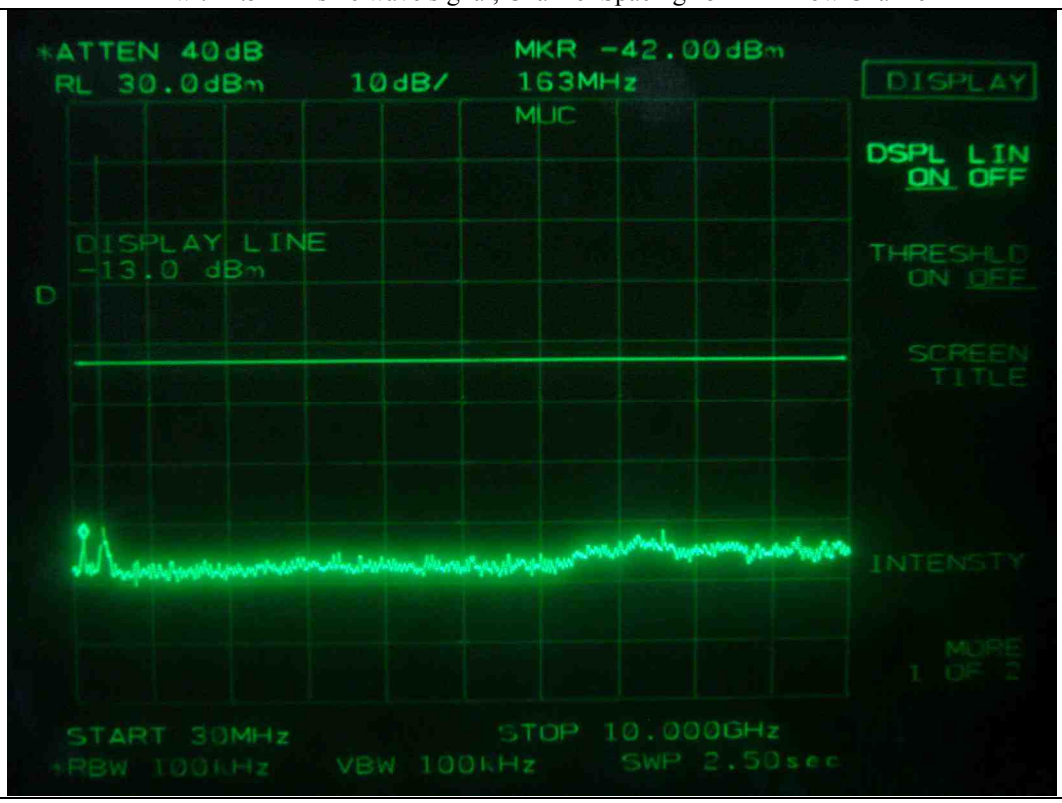



FM with 2.5 kHz sine wave signal, Channel Spacing 25 kHz - Low Channel




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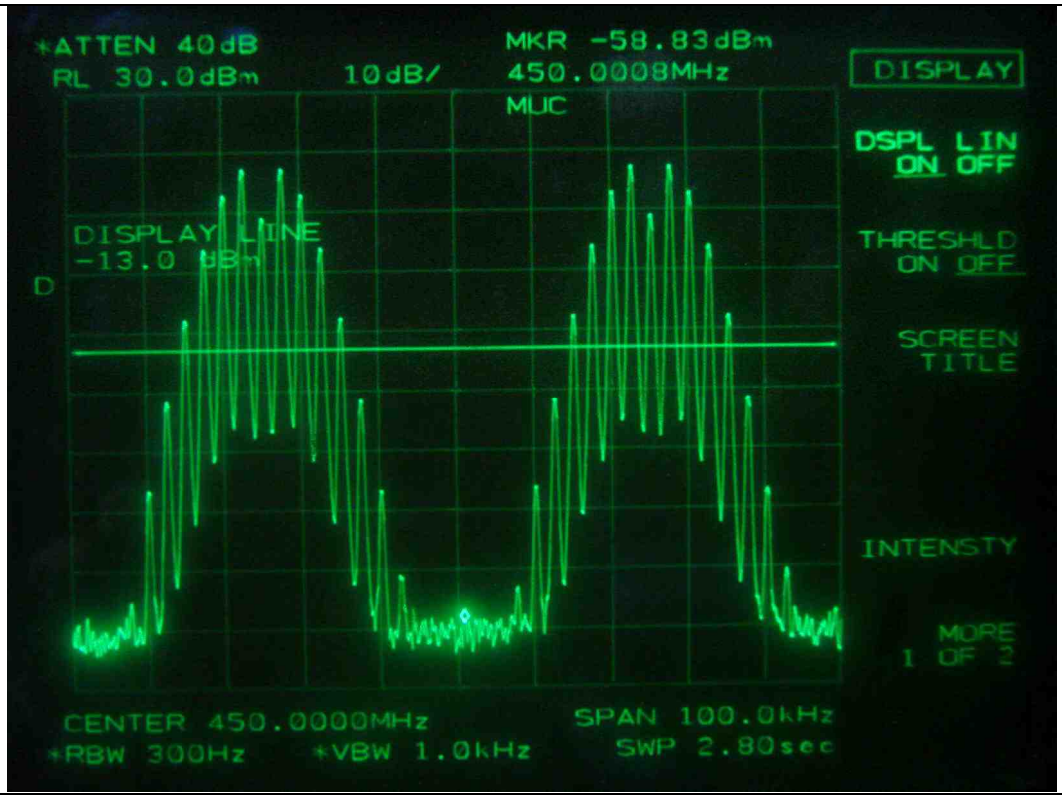
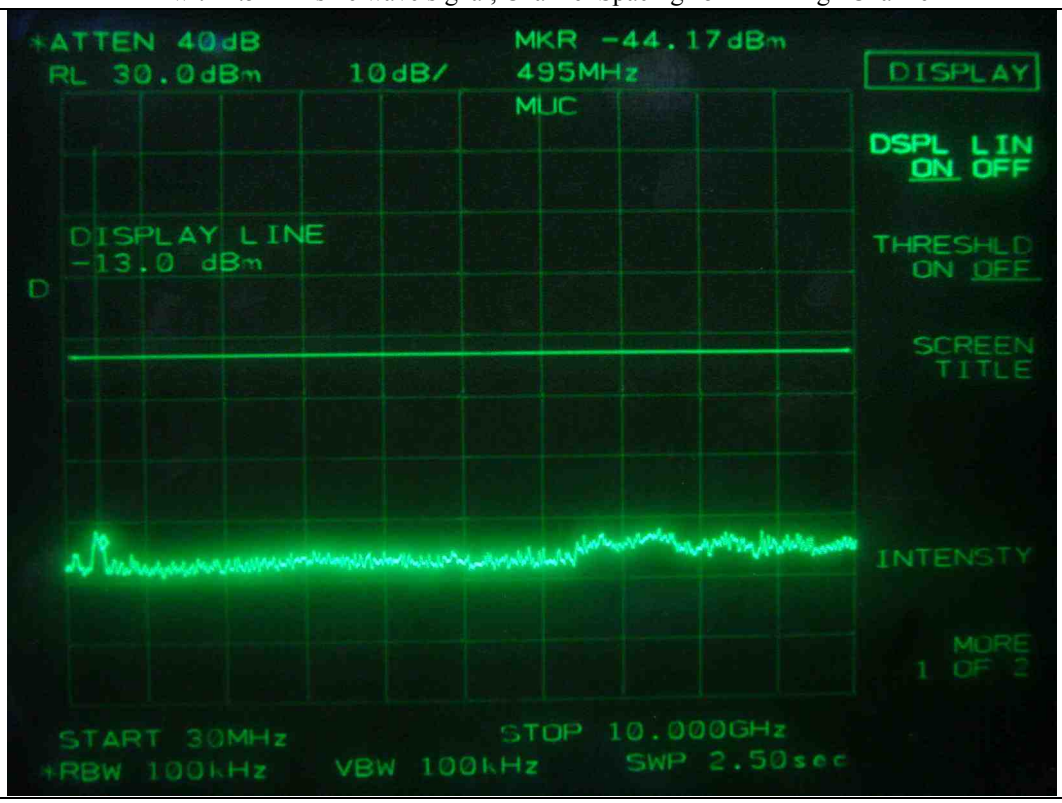



FM with 2.5 kHz sine wave signal, Channel Spacing 25 kHz - High Channel




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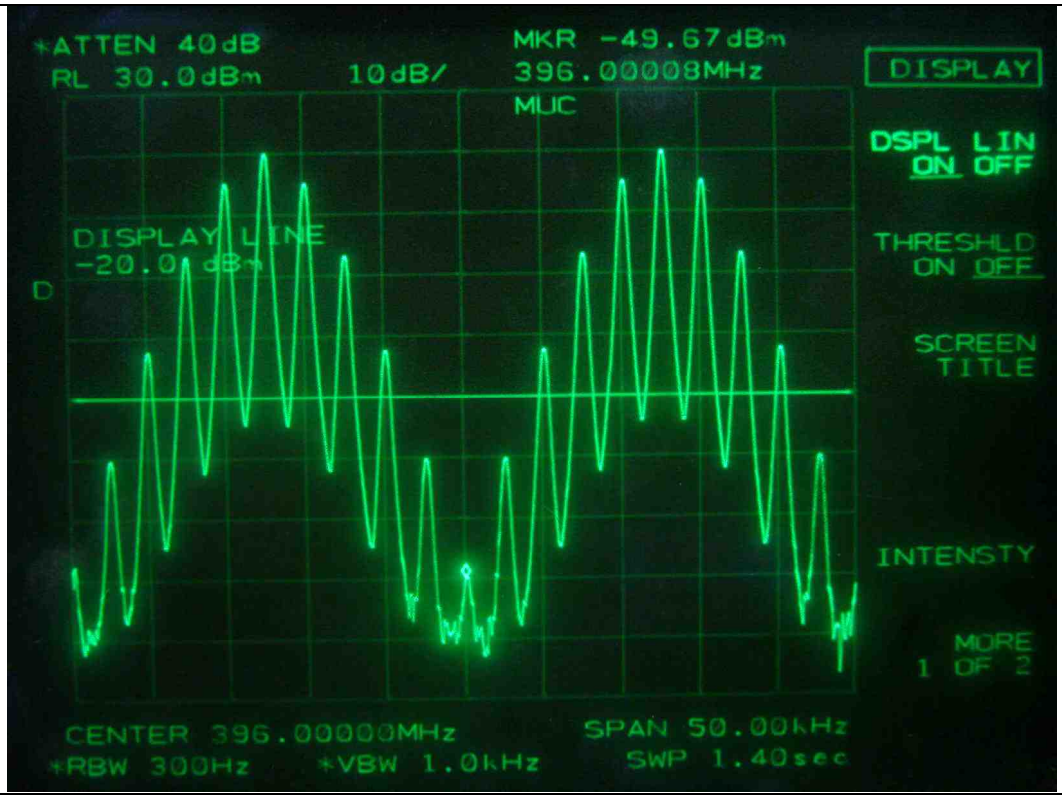
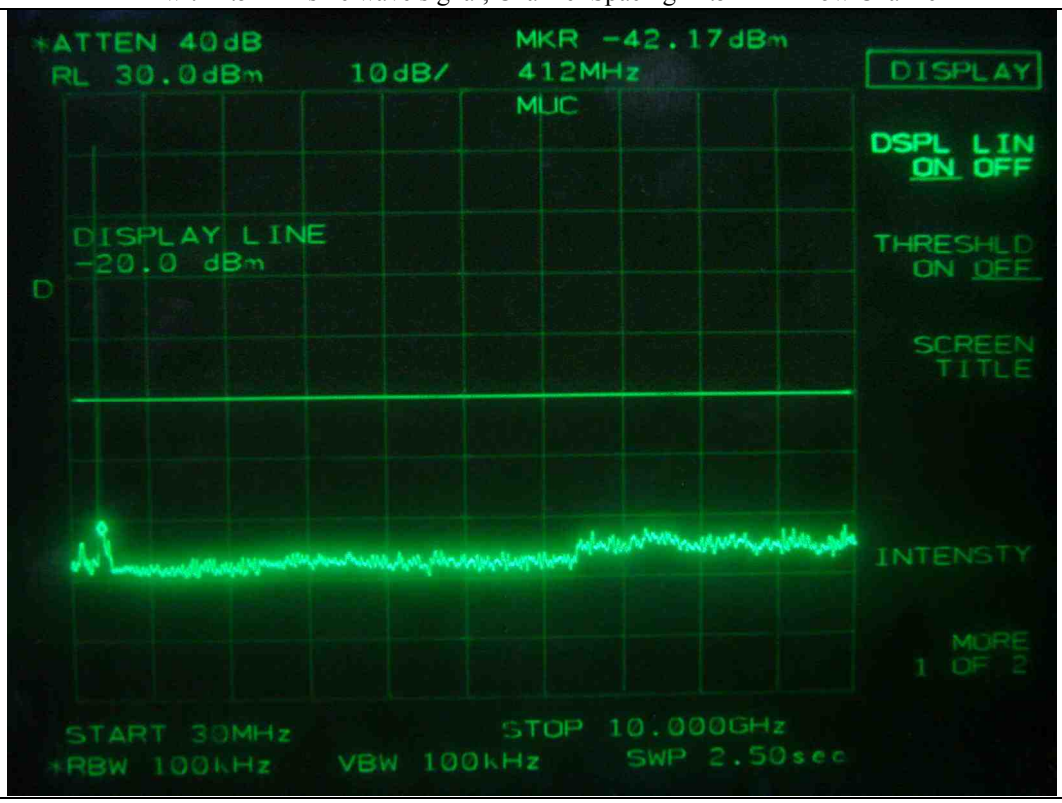



FM with 2.5 kHz sine wave signal, Channel Spacing 12.5 kHz - Low Channel




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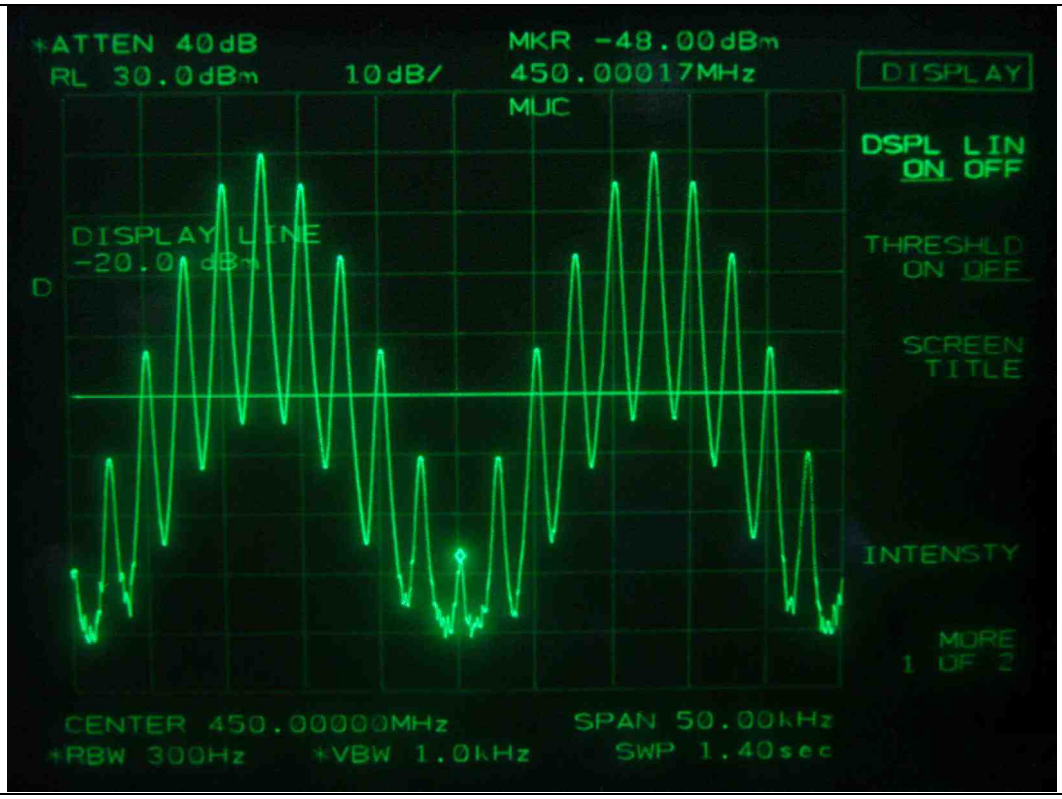
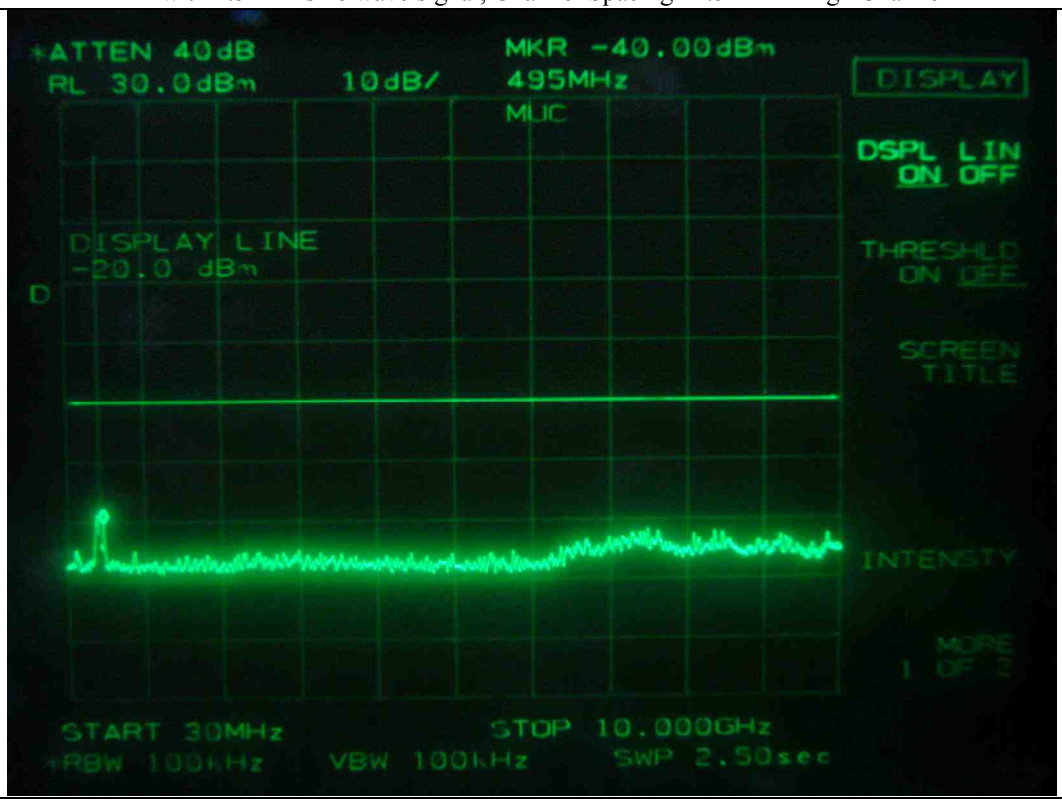



FM with 2.5 kHz sine wave signal, Channel Spacing 12.5 kHz - High Channel




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



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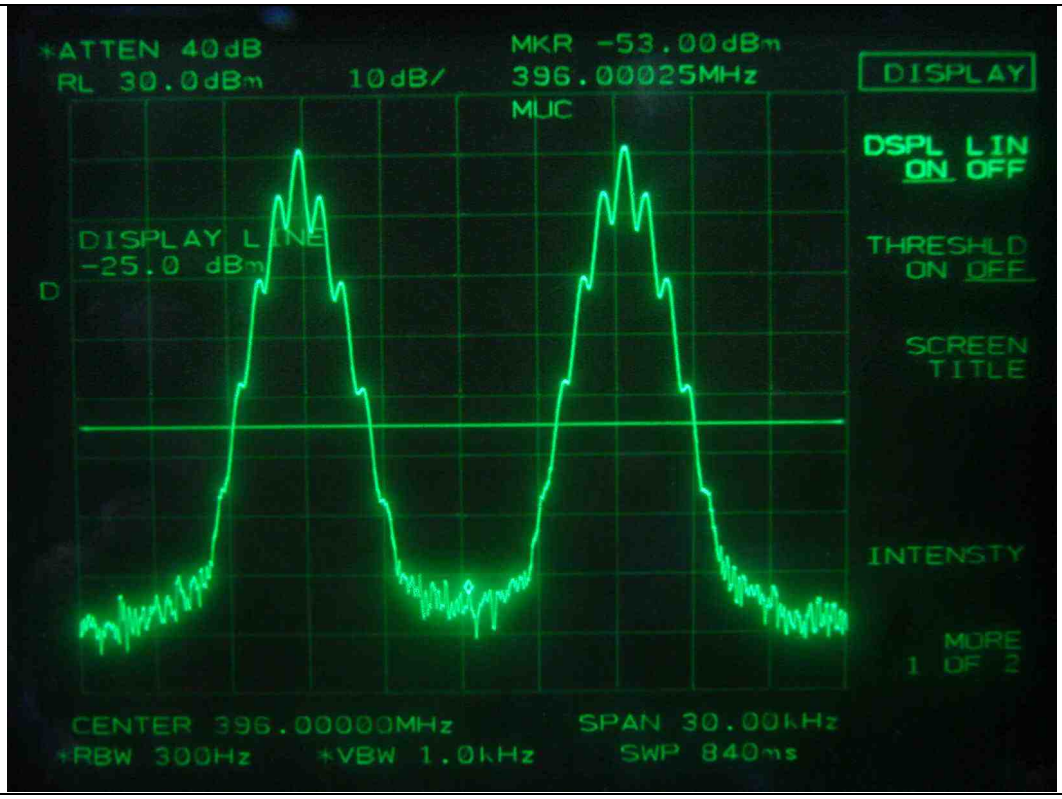
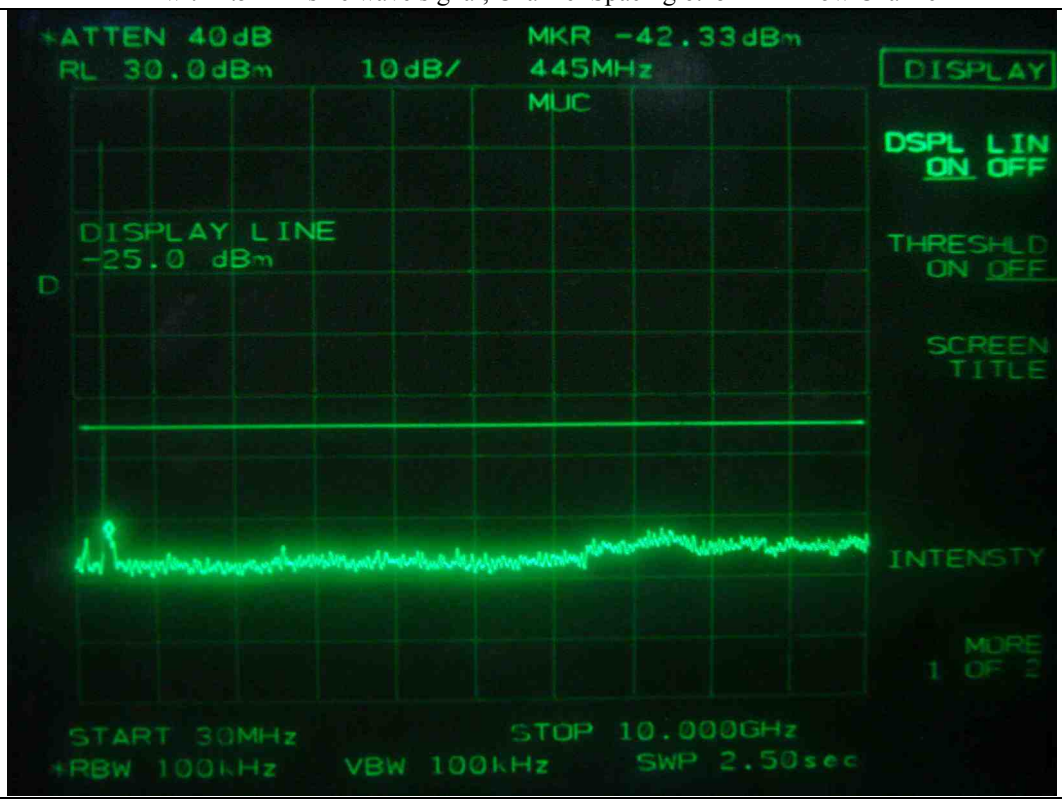



FM with 2.5 kHz sine wave signal, Channel Spacing 6.25 kHz - Low Channel




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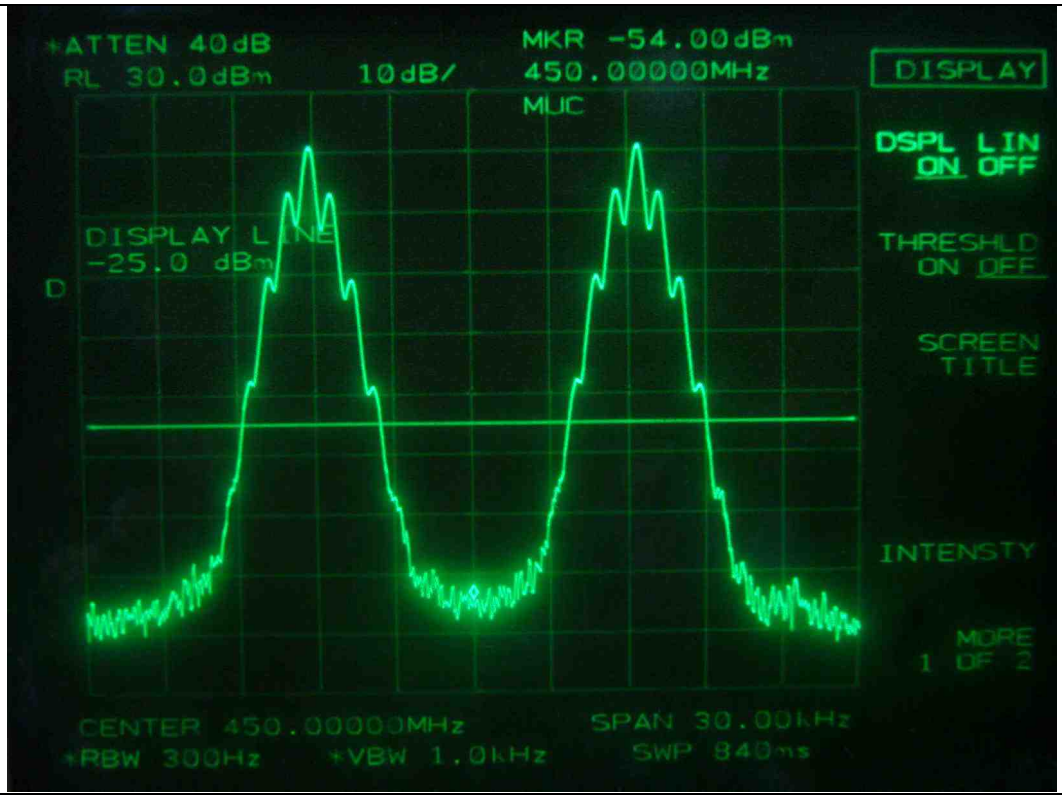
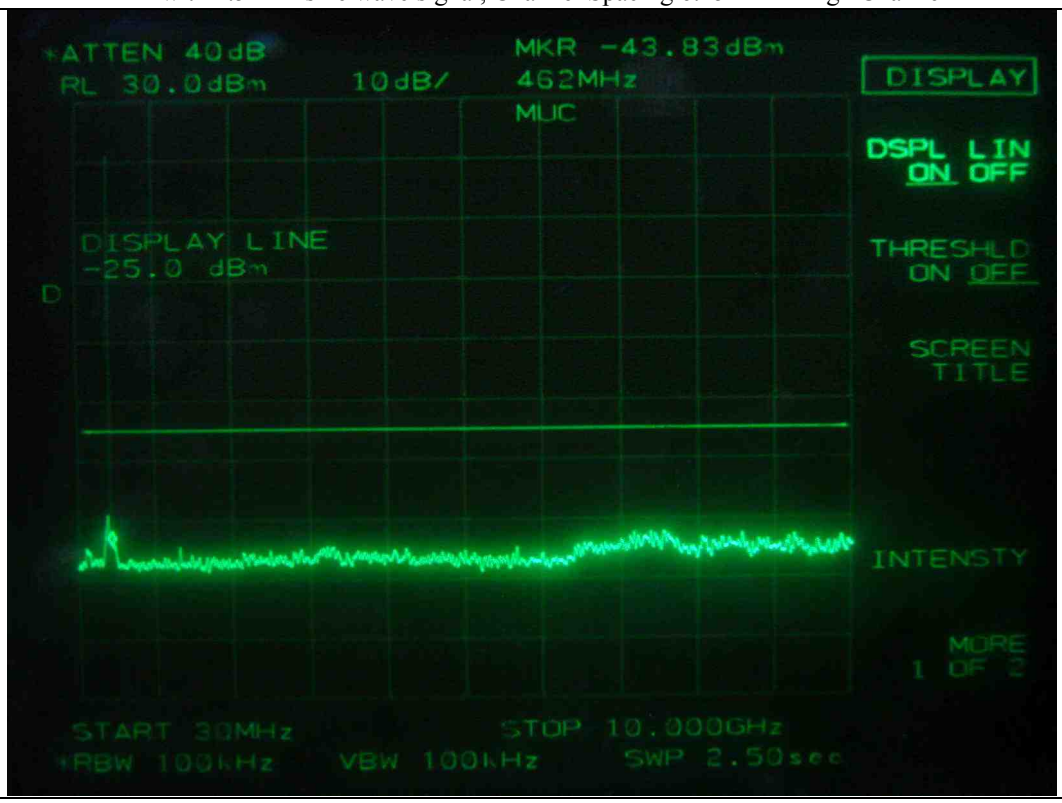



FM with 2.5 kHz sine wave signal, Channel Spacing 6.25 kHz - High Channel




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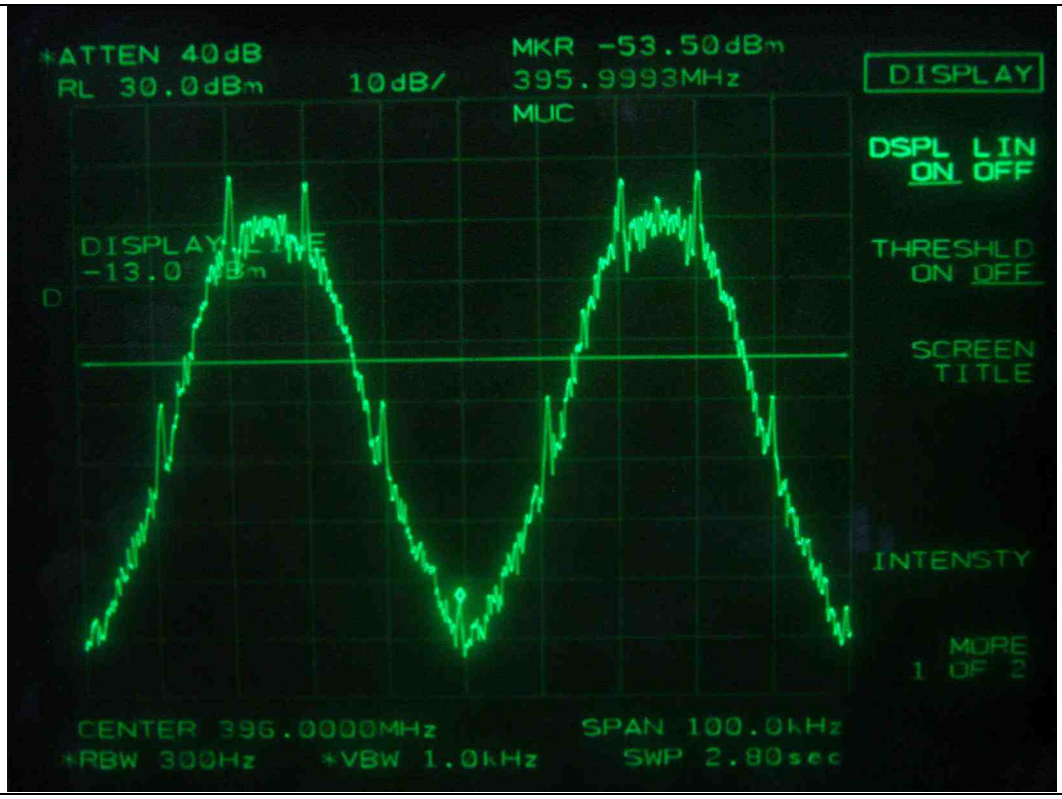
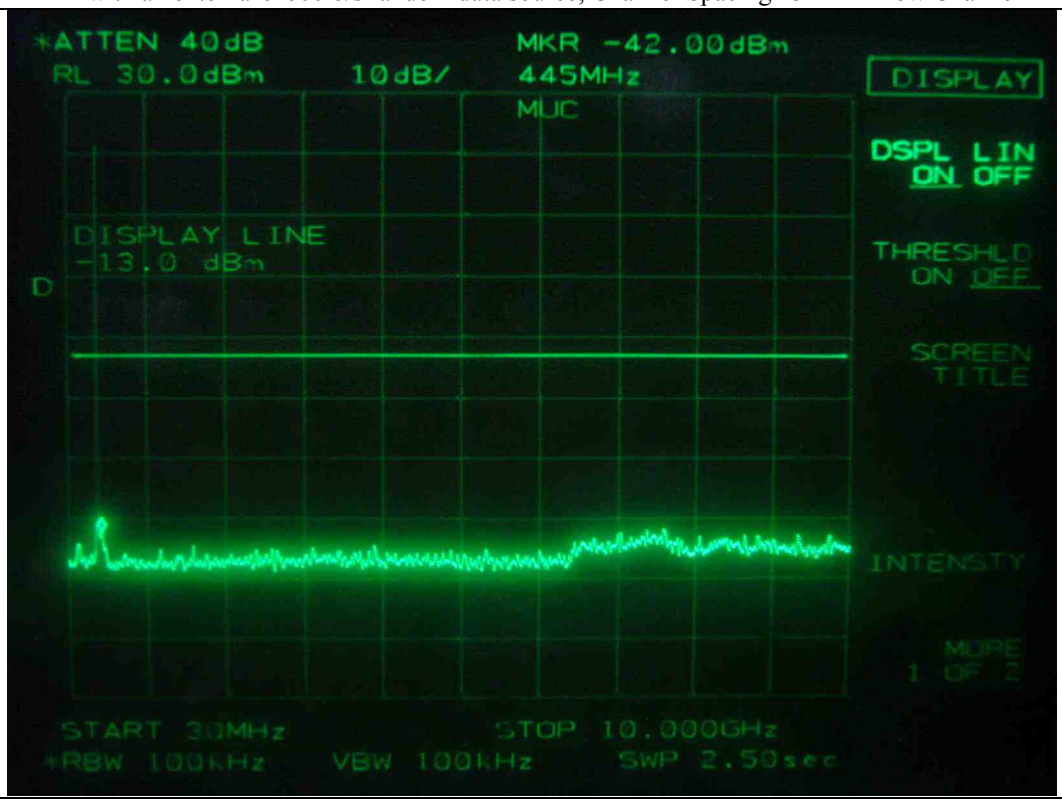



FM with an external 9 600 b/s random data source, Channel Spacing 25 kHz - Low Channel




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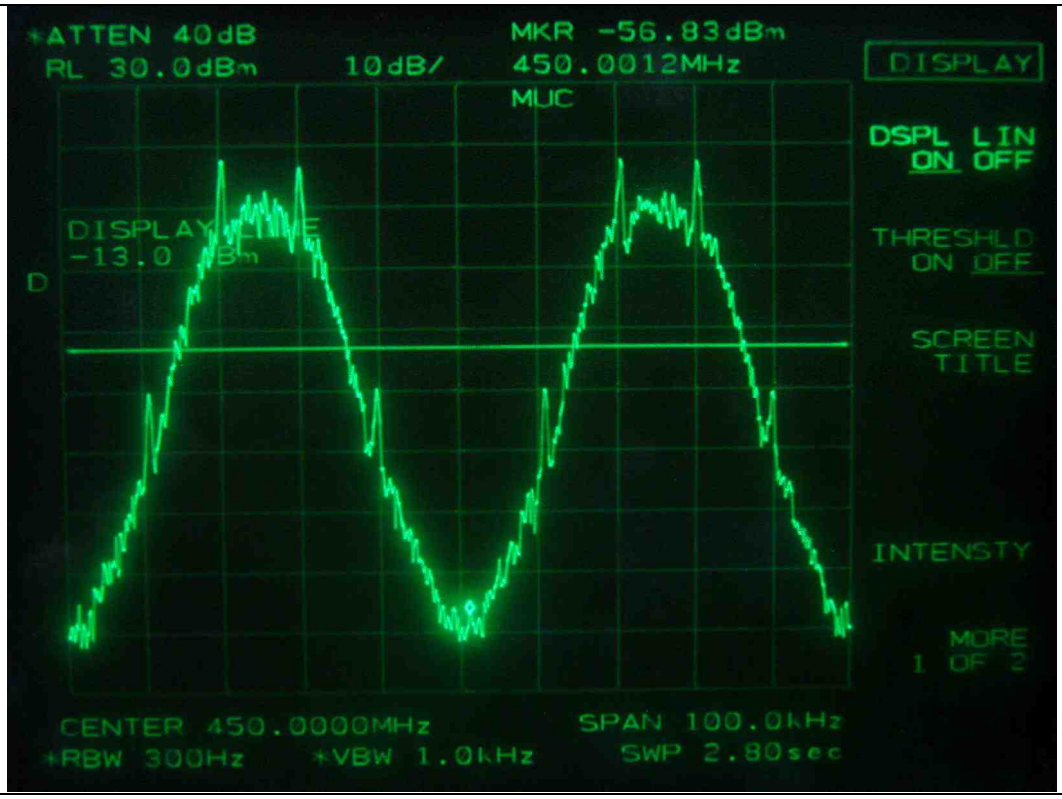
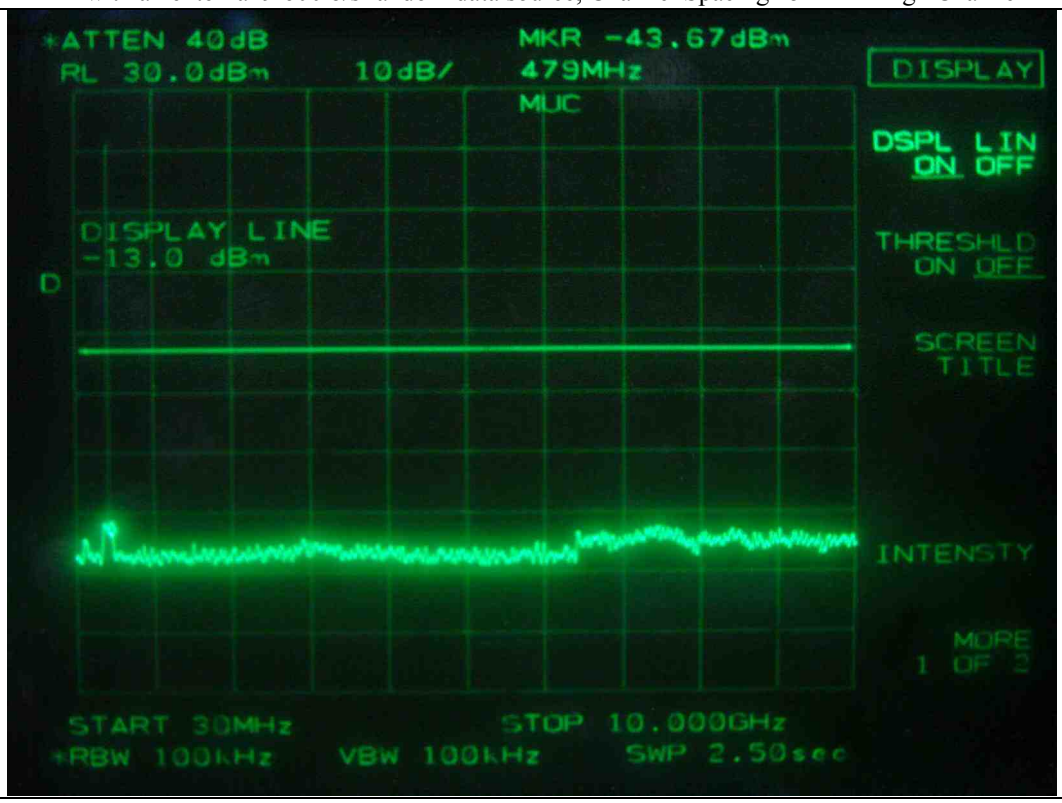



FM with an external 9 600 b/s random data source, Channel Spacing 25 kHz - High Channel




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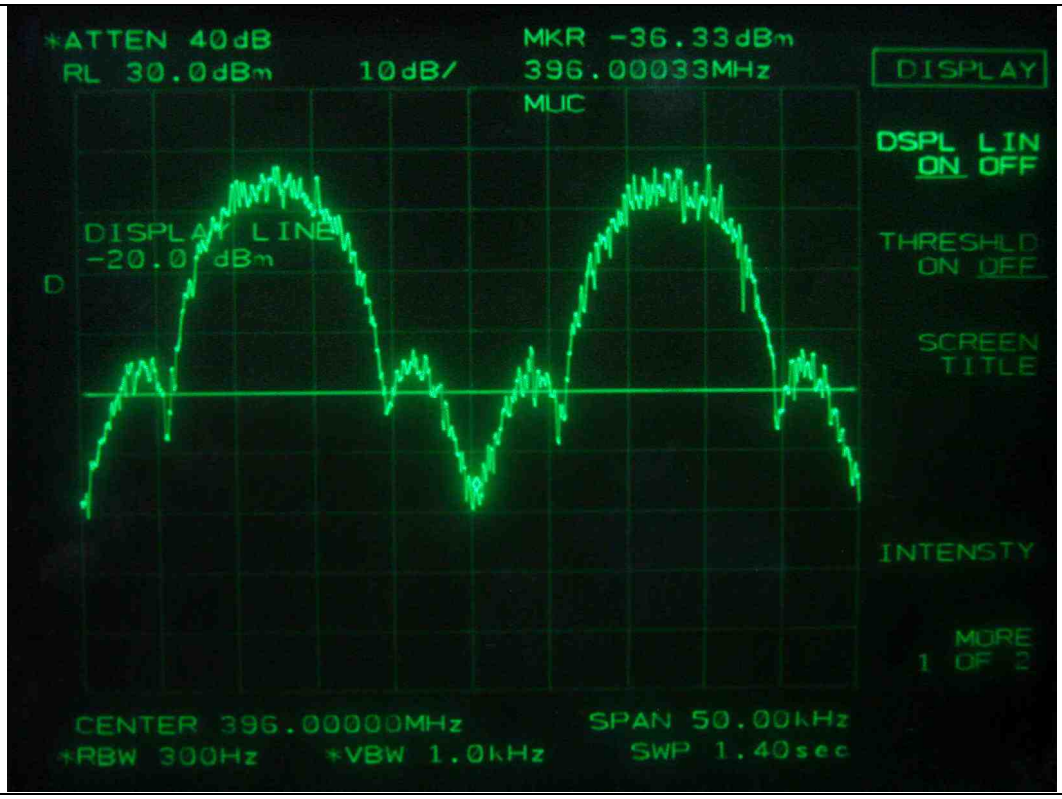
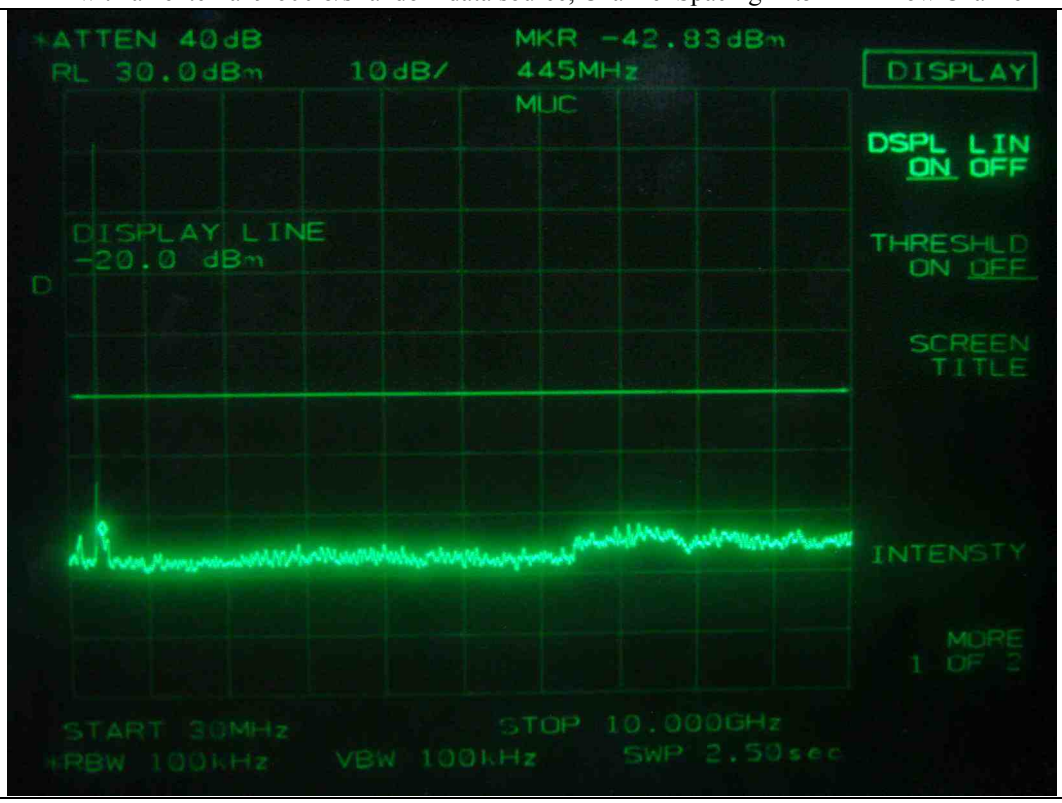



FM with an external 9 600 b/s random data source, Channel Spacing 12.5 kHz - Low Channel




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



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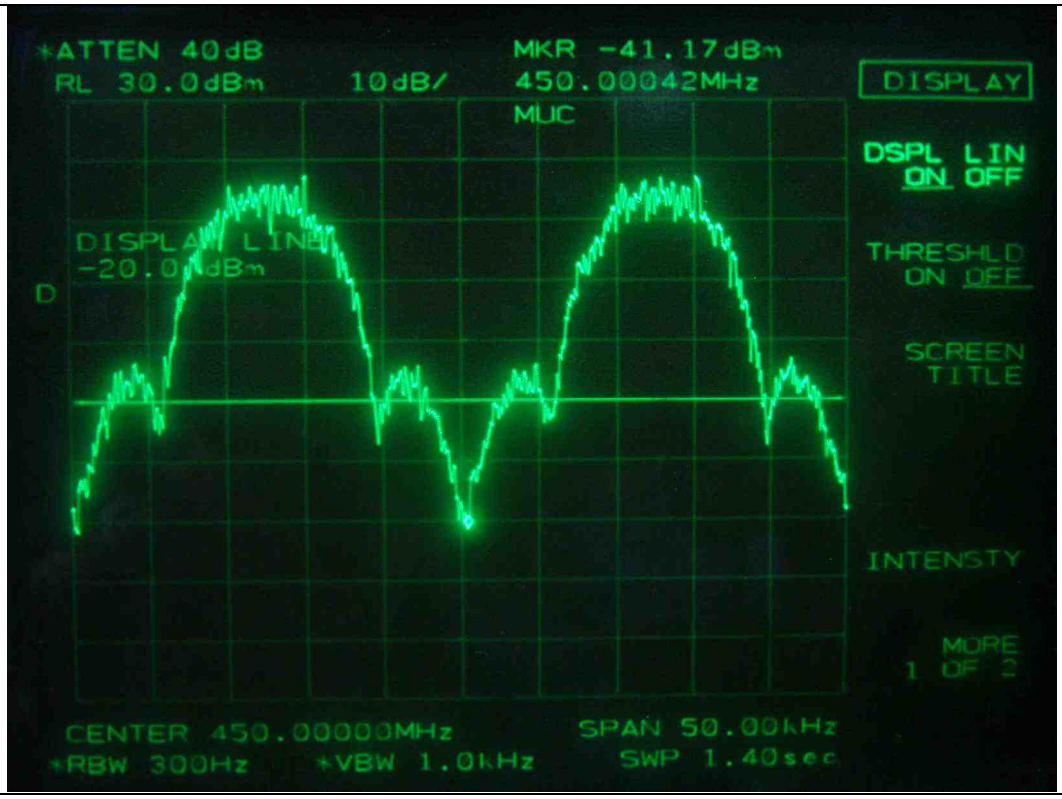
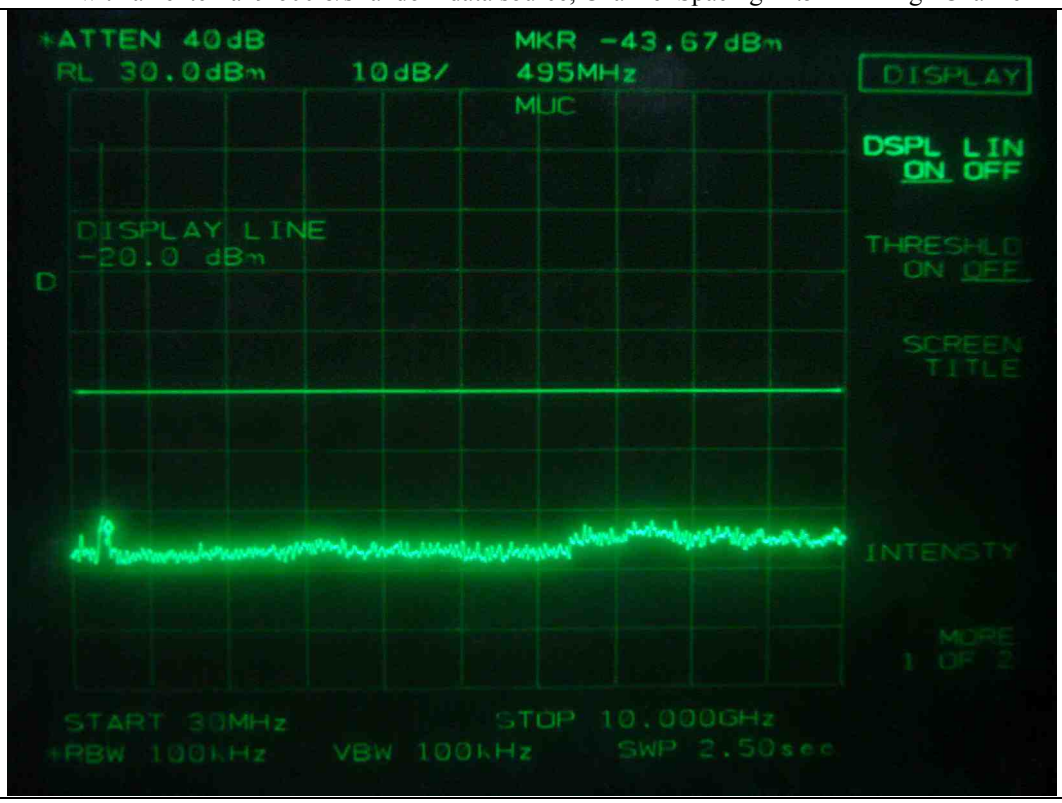



FM with an external 9 600 b/s random data source, Channel Spacing 12.5 kHz- High Channel




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



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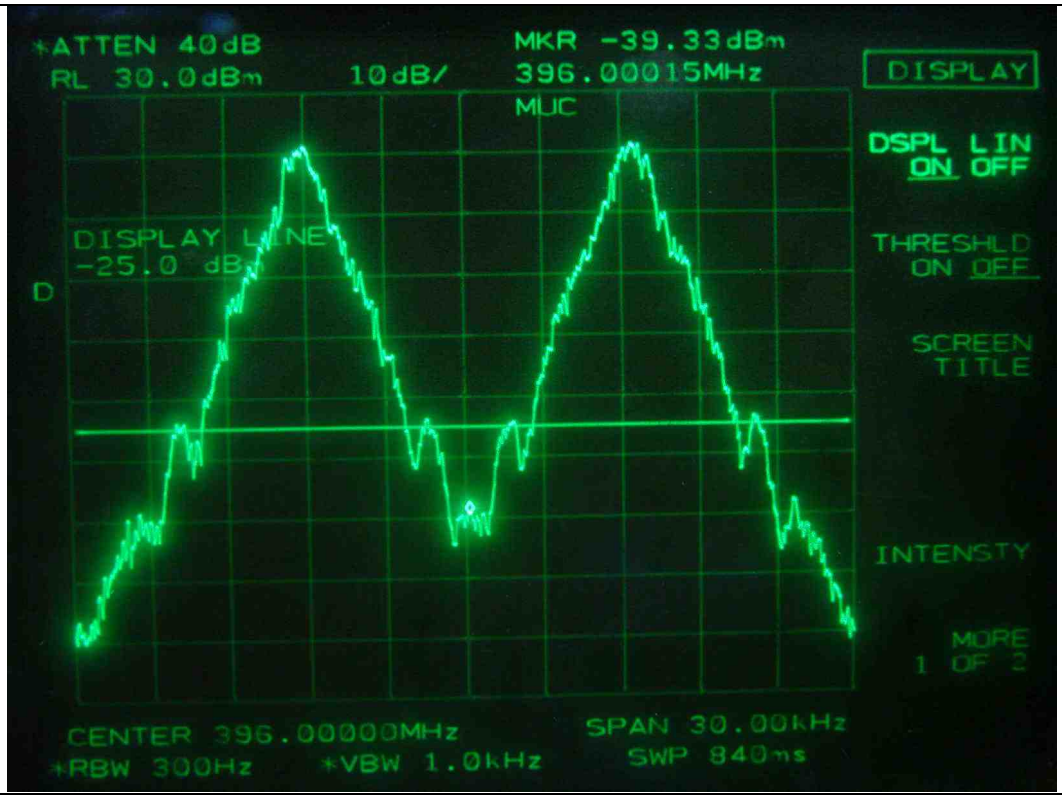
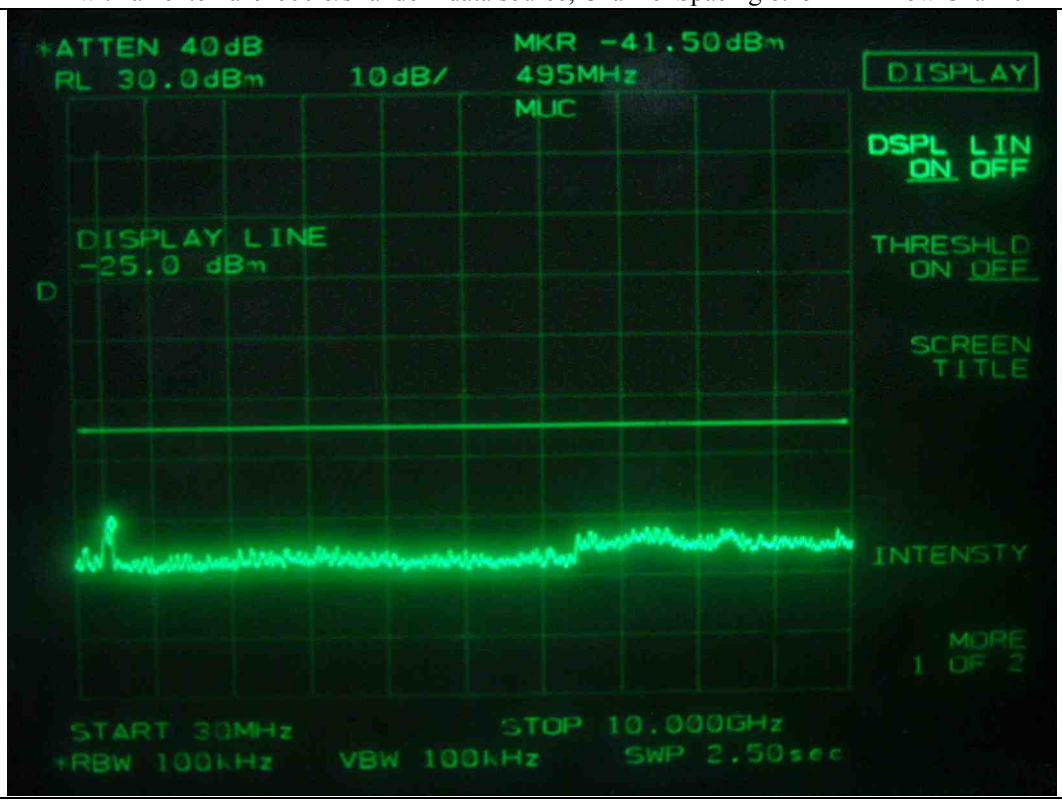



FM with an external 9 600 b/s random data source, Channel Spacing 6.25 kHz - Low Channel




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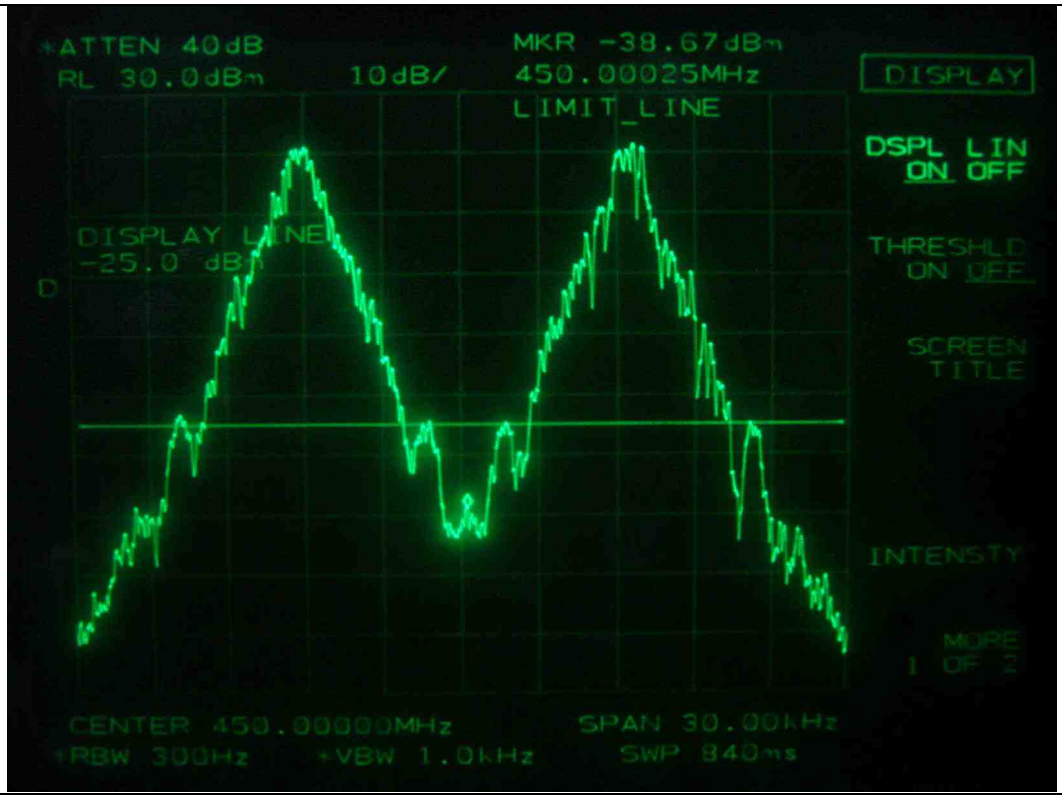
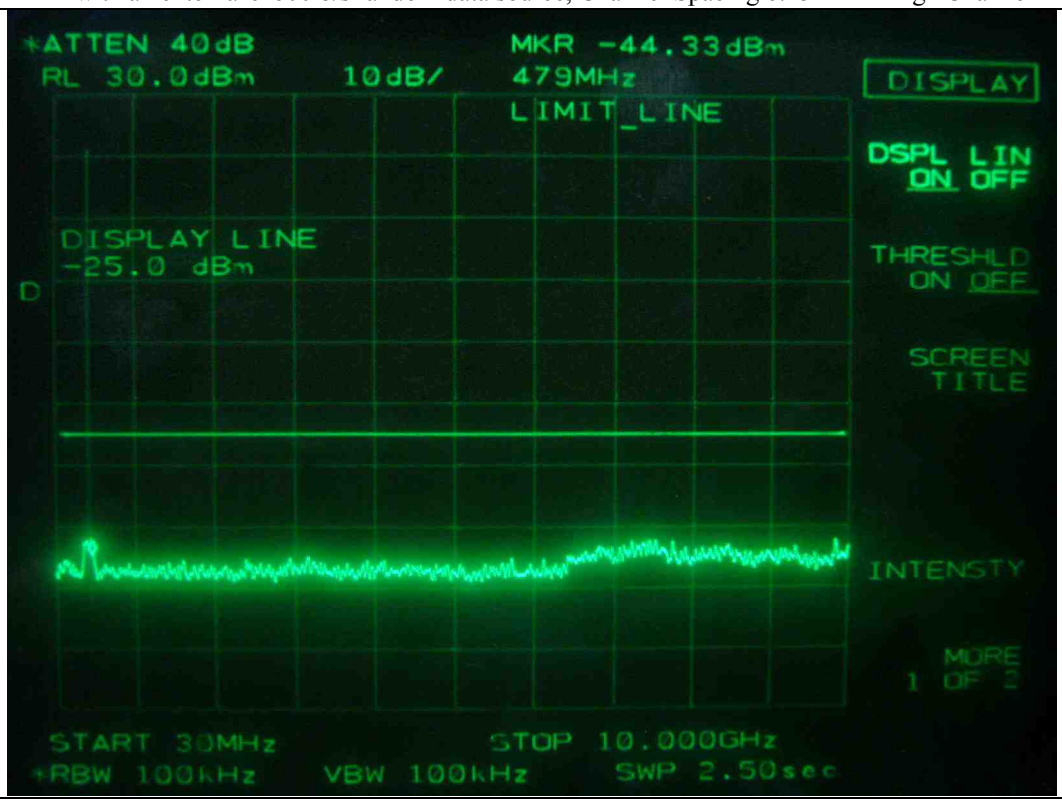



FM with an external 9 600 b/s random data source, Channel Spacing 6.25 kHz - High Channel




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



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