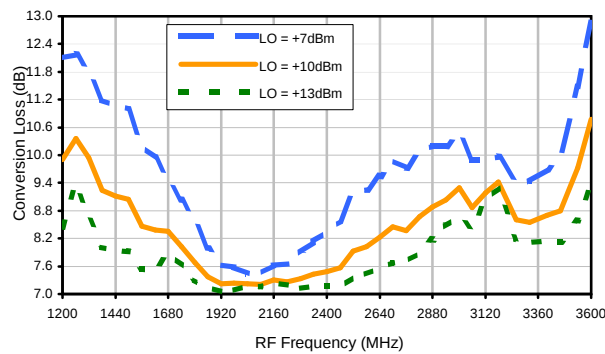
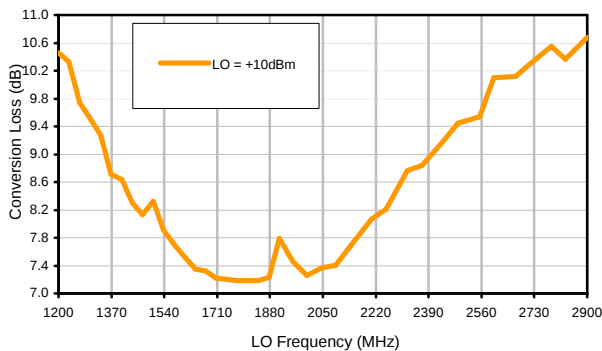


## Typical Performance Curves

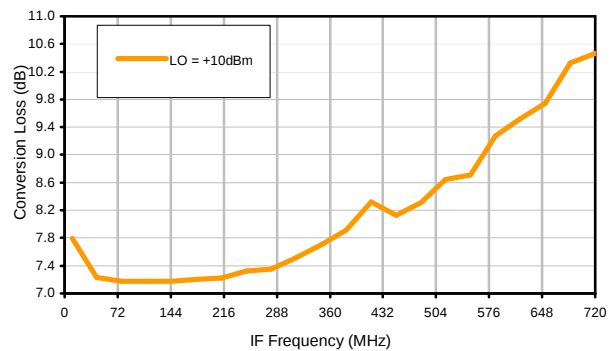
Conversion Loss @ IF=199MHz



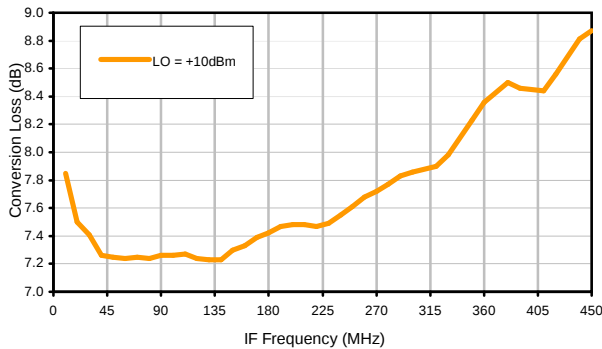
Conversion Loss vs. LO @ RF=1920MHz



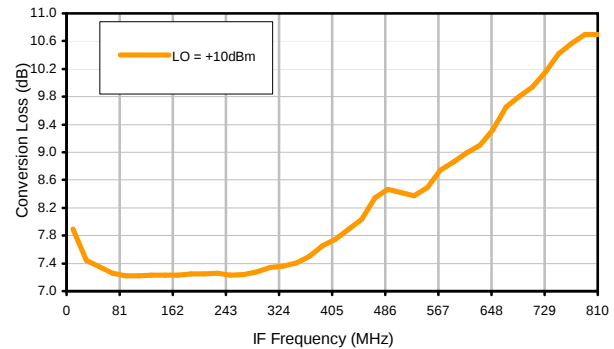
Conversion Loss vs. IF @ RF=1920MHz



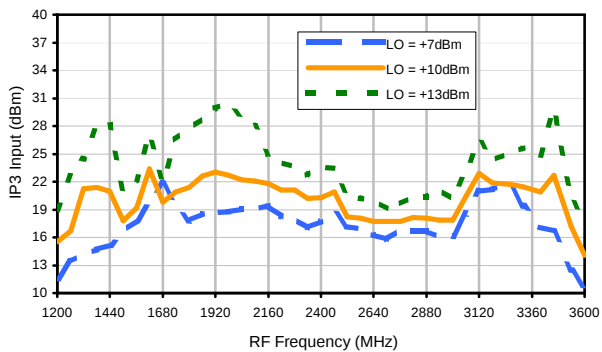
Conversion Loss vs. IF @ RF=1850.1MHz



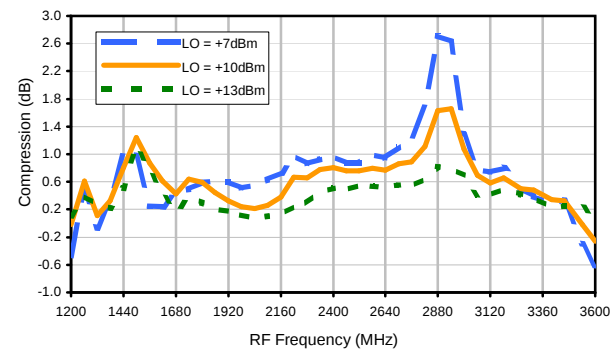
Conversion Loss vs. IF @ RF=1990.1MHz



IP3 Input

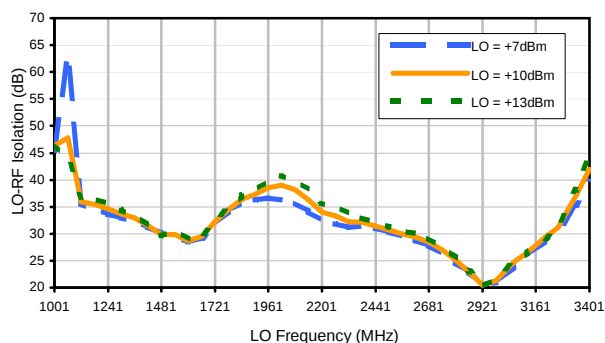


Compression @ RF IN=+13dBm

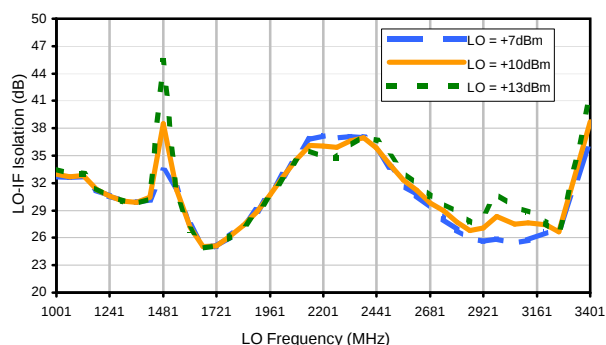


## Typical Performance Curves

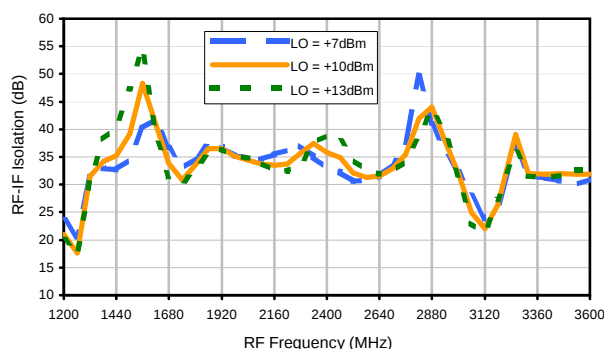
LO-RF Isolation



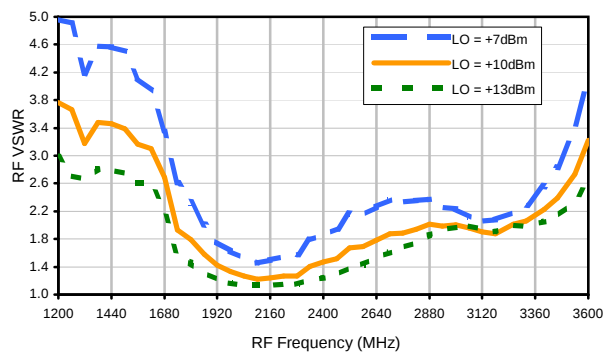
LO-IF Isolation



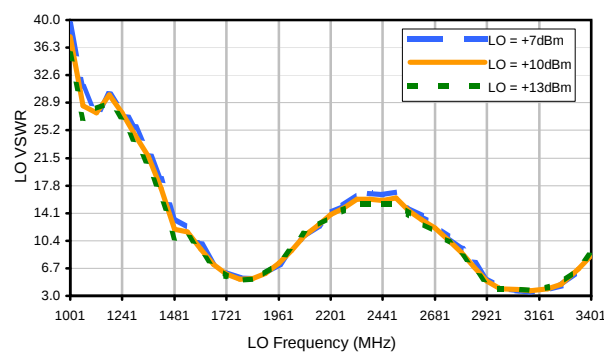
RF-IF Isolation



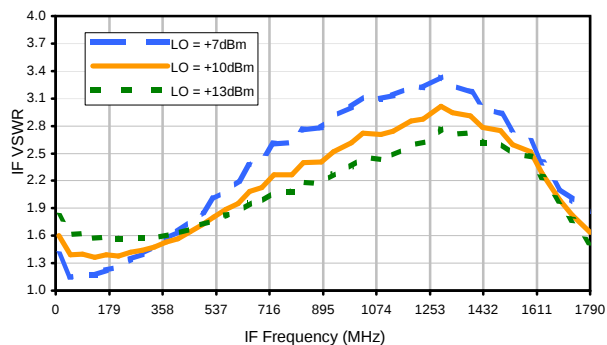
RF VSWR



LO VSWR



IF VSWR



## Harmonics Tables

RF HARMONICS ORDER

|    | (-dBm) | (-dBc) |     |     |     |     |     |     |     |     |     |     |
|----|--------|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 0  | -      | -      | 6   | 27  | 29  | 21  | 32  | 47  | 40  | 39  | 45  | 61  |
| 1  | -      | 29     | +0  | 37  | 16  | 47  | 25  | 44  | 51  | 56  | 43  | 84  |
| 2  | 63     | 49     | 45  | 55  | 59  | 50  | 48  | 58  | 61  | 56  | 77  | 57  |
| 3  | >100   | 73     | 55  | 79  | 51  | 77  | 53  | 76  | 59  | 63  | 79  | 67  |
| 4  | >100   | >91    | 87  | >91 | 84  | >91 | 77  | >91 | 81  | 86  | 87  | 79  |
| 5  | >100   | >91    | >91 | >91 | 88  | >91 | 85  | >91 | 88  | >91 | 89  | >91 |
| 6  | >100   | >91    | >91 | >91 | >91 | >91 | >91 | >91 | >91 | >91 | >91 | >91 |
| 7  | >100   | >91    | >91 | >91 | >91 | >91 | >91 | >91 | >91 | >91 | >91 | >91 |
| 8  | >100   | >91    | >91 | >91 | >91 | >91 | >91 | >91 | >91 | >91 | >91 | >91 |
| 9  | >100   | >91    | >91 | >91 | >91 | >91 | >91 | >91 | >91 | >91 | >91 | >91 |
| 10 | >100   | >91    | >91 | >91 | >91 | >91 | >91 | >91 | >91 | >91 | >91 | >91 |
|    | RF CAL | 0      | 1   | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  |

### LO HARMONICS ORDER

Test conditions: RF IN: 1920.1 MHz; -2.00 dBm.  
LO IN: 1721.1 MHz; +10.00 dBm  
IF OUT: 199 MHz; -9.34 dBm

RF HARMONICS ORDER

|    | (-dBm) | (-dBc) |      |      |      |      |      |    |    |      |    |    |
|----|--------|--------|------|------|------|------|------|----|----|------|----|----|
| 0  | -      | -      | 17   | 33   | 39   | 30   | 46   | 54 | 53 | 53   | 63 | 67 |
| 1  | -      | 29     | +0   | 40   | 18   | 54   | 28   | 48 | 59 | 54   | 51 | 62 |
| 2  | 43     | 40     | 36   | 44   | 48   | 43   | 44   | 53 | 55 | 52   | 72 | 51 |
| 3  | 71     | 56     | 36   | 58   | 33   | 58   | 37   | 61 | 44 | 52   | 71 | 63 |
| 4  | 100    | 72     | 62   | 62   | 62   | 72   | 57   | 61 | 62 | 63   | 75 | 57 |
| 5  | >100   | 72     | 74   | 73   | 53   | 75   | 50   | 69 | 51 | 73   | 56 | 70 |
| 6  | >100   | 83     | 84   | 78   | 74   | 75   | 72   | 94 | 66 | 72   | 69 | 77 |
| 7  | >100   | 89     | 92   | >101 | 83   | 88   | 69   | 92 | 68 | 78   | 66 | 83 |
| 8  | >100   | 94     | >101 | 85   | 98   | 82   | 80   | 89 | 78 | 84   | 72 | 84 |
| 9  | >100   | >101   | 95   | >101 | 101  | >101 | >101 | 90 | 89 | 97   | 79 | 85 |
| 10 | >100   | >101   | >101 | >101 | >101 | >101 | >101 | 90 | 91 | >101 | 84 | 98 |
|    | RF CAL | 0      | 1    | 2    | 3    | 4    | 5    | 6  | 7  | 8    | 9  | 10 |

### LO HARMONICS ORDER

Test conditions: RF IN: 1920.1 MHz; 8.00 dBm.  
LO IN: 1721.1 MHz; +10.00 dBm  
IF OUT: 199 MHz; 0.6 dBm

- Notes: 1. All Harmonics are in (dBc) relative to IF OUTPUT.  
2. + entry denotes harmonics are in (dBc) above IF OUTPUT.  
3. RF Cal represent the Harmonics level of the RF input signal to the mixer.