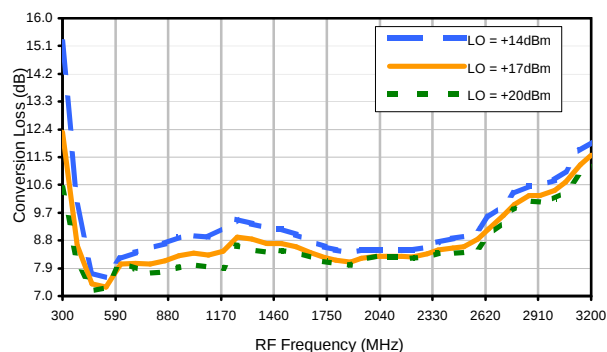
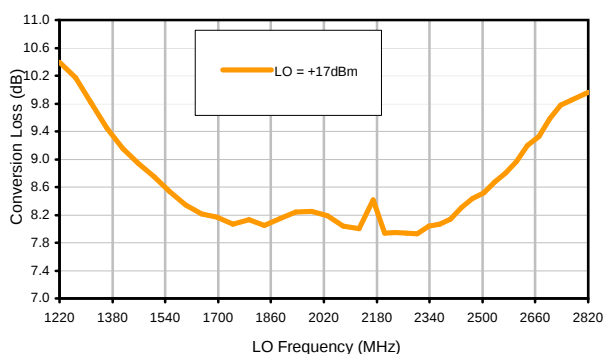


## Typical Performance Curves

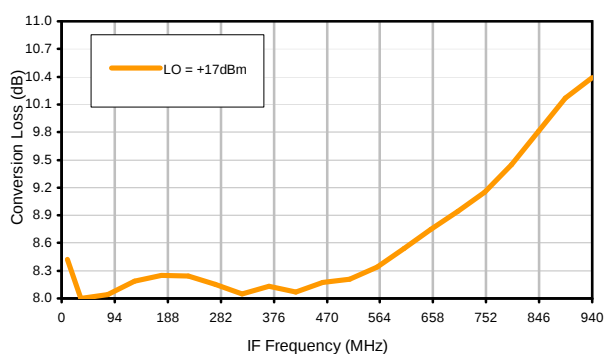
Conversion Loss @ IF=21.4MHz



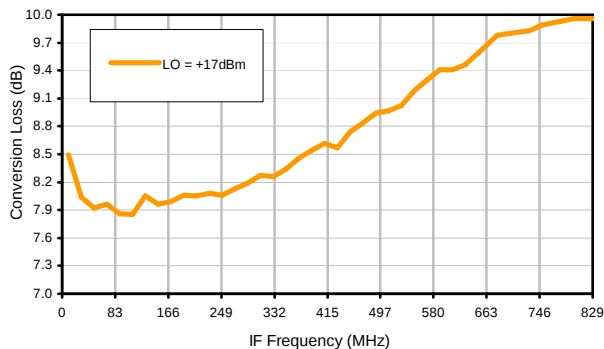
Conversion Loss vs. LO @ RF=2160.1001MHz



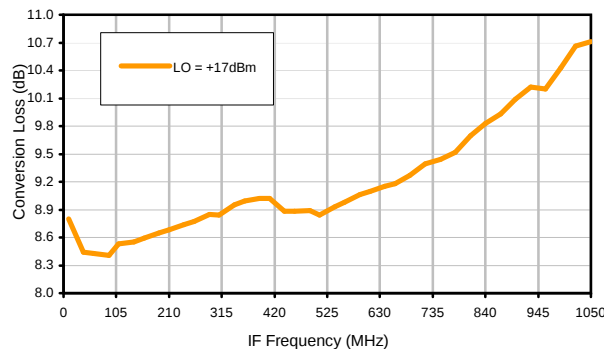
Conversion Loss vs. IF @ RF=2160.1001MHz



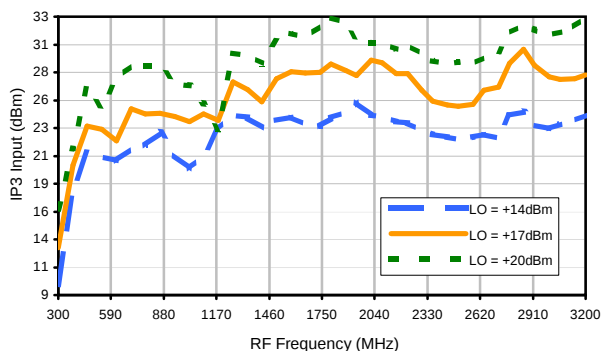
Conversion Loss vs. IF @ RF=1960.1MHz



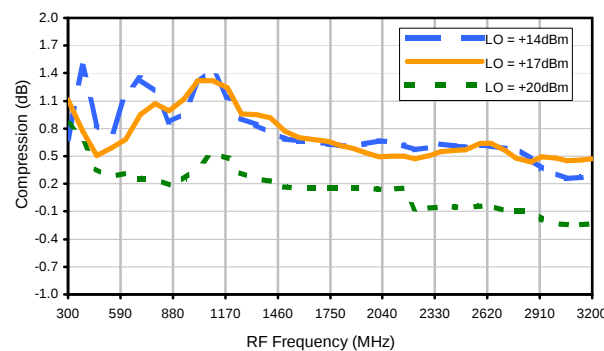
Conversion Loss vs. IF @ RF=2360.1001MHz



IP3 Input

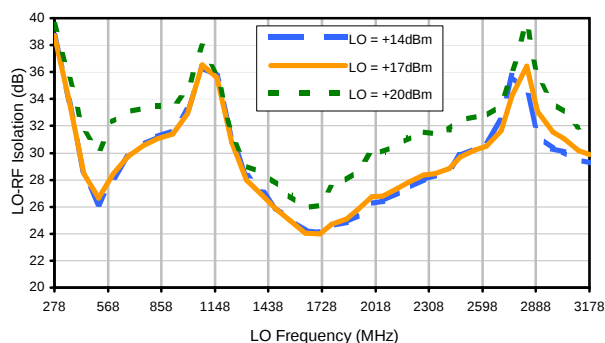


Compression @ RF IN=+15dBm

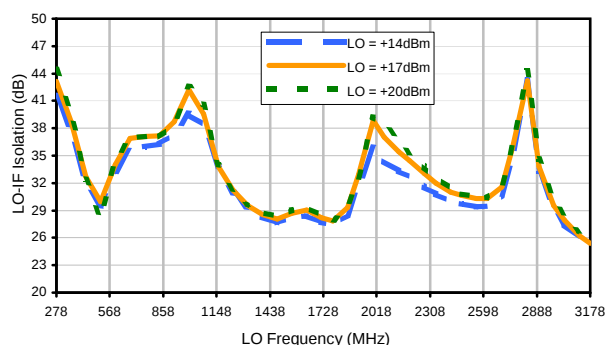


## Typical Performance Curves

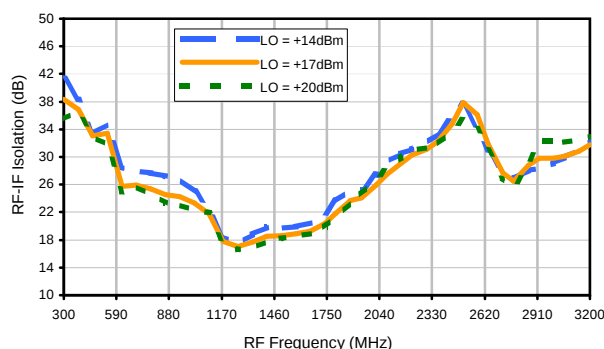
LO-RF Isolation



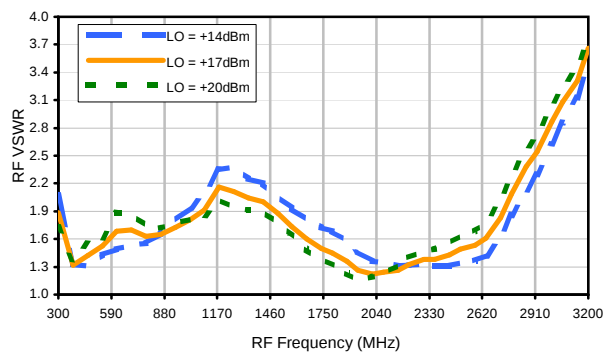
LO-IF Isolation



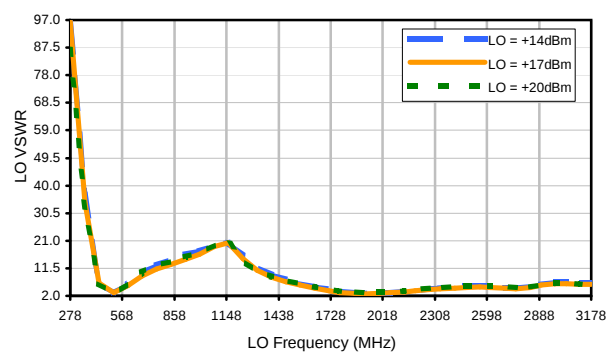
RF-IF Isolation



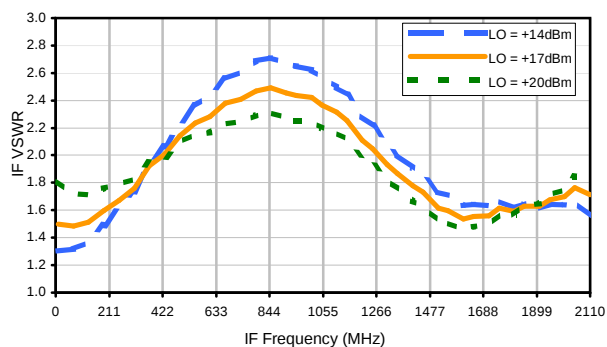
RF VSWR



LO VSWR



IF VSWR



## Harmonics Tables

RF HARMONICS ORDER

|        | (-dBm) | (-dBc) |     |     |     |     |     |     |     |     |     |     |
|--------|--------|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 0      | -      | -      | 11  | 10  | 20  | 23  | 26  | 30  | 39  | 45  | 61  | 63  |
| 1      | -      | 21     | +0  | 28  | 18  | 34  | 41  | 45  | 47  | 43  | 59  | 62  |
| 2      | 63     | 45     | 49  | 51  | 55  | 52  | 57  | 57  | 58  | 67  | 76  | 78  |
| 3      | >100   | 70     | 65  | 65  | 63  | 65  | 69  | 75  | 86  | 85  | 84  | >91 |
| 4      | >100   | >91    | >91 | >91 | >91 | >91 | 87  | 90  | >91 | >91 | 88  | >91 |
| 5      | >100   | >91    | >91 | >91 | >91 | >91 | >91 | >91 | >91 | >91 | >91 | >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: 2160 MHz; 0.00 dBm.  
LO IN: 2138.6 MHz; +17.00 dBm  
IF OUT: 21.4 MHz; -9.2 dBm

RF HARMONICS ORDER

|        | (-dBm) | (-dBc) |     |     |     |     |     |     |    |    |    |     |
|--------|--------|--------|-----|-----|-----|-----|-----|-----|----|----|----|-----|
| 0      | -      | -      | 17  | 19  | 29  | 33  | 35  | 43  | 52 | 62 | 69 | 80  |
| 1      | -      | 18     | +0  | 26  | 17  | 31  | 40  | 41  | 47 | 41 | 58 | 60  |
| 2      | 43     | 33     | 36  | 40  | 46  | 42  | 48  | 47  | 53 | 63 | 65 | 68  |
| 3      | 75     | 50     | 43  | 49  | 52  | 51  | 49  | 65  | 69 | 72 | 66 | 70  |
| 4      | >100   | 72     | 64  | 63  | 66  | 64  | 63  | 64  | 78 | 69 | 72 | 84  |
| 5      | >100   | 82     | 78  | 71  | 73  | 63  | 56  | 62  | 72 | 77 | 80 | 76  |
| 6      | >100   | >99    | 93  | 84  | 77  | 79  | 76  | 86  | 74 | 87 | 83 | 92  |
| 7      | >100   | 86     | >99 | 89  | 89  | 80  | 80  | 71  | 80 | 71 | 81 | 77  |
| 8      | >100   | >99    | >99 | 96  | >99 | 89  | 91  | 87  | 85 | 90 | 87 | >99 |
| 9      | >100   | >99    | >99 | >99 | >99 | 99  | 93  | 97  | 93 | 88 | 84 | 89  |
| 10     | >100   | >99    | >99 | >99 | >99 | >99 | >99 | >99 | 98 | 98 | 93 | 89  |
| RF CAL | 0      | 1      | 2   | 3   | 4   | 5   | 6   | 7   | 8  | 9  | 10 |     |

### LO HARMONICS ORDER

Test conditions:

RF IN: 2160 MHz; 10.00 dBm.  
LO IN: 2138.6 MHz; +17.00 dBm  
IF OUT: 21.4 MHz; -0.82 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.

REV. X2

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