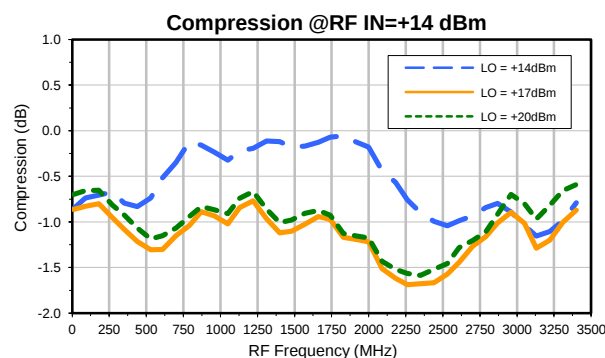
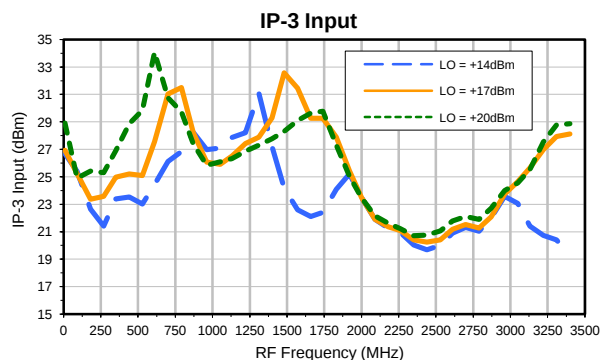
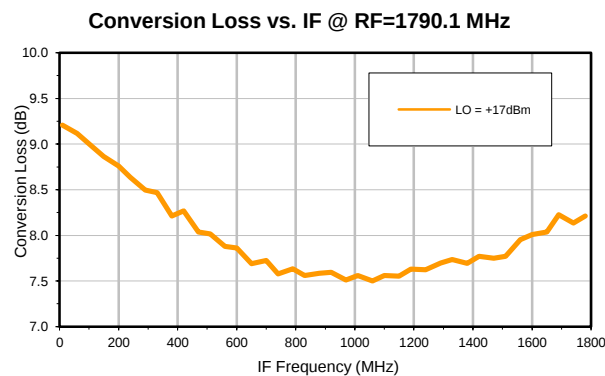
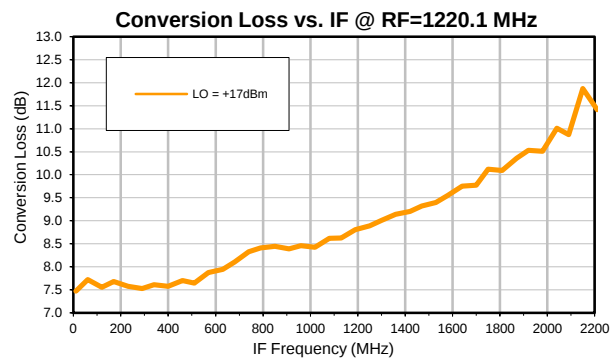
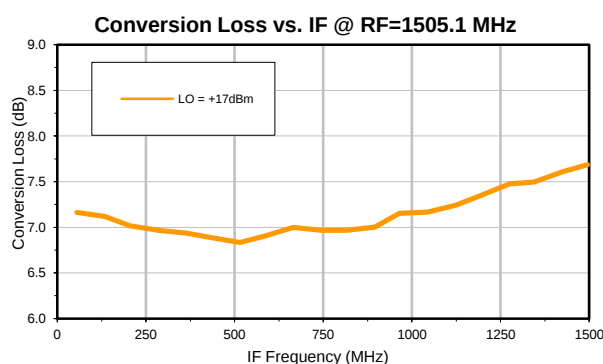
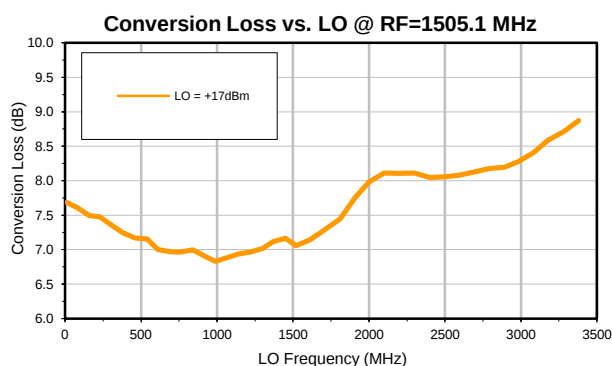
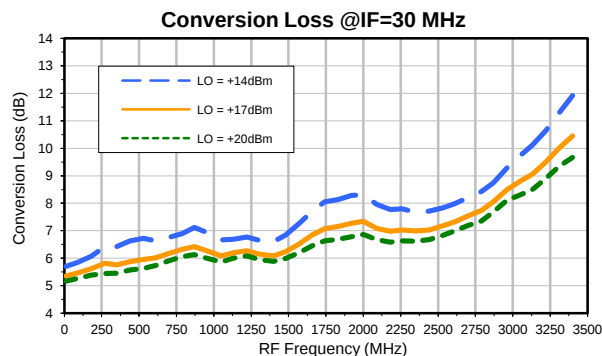
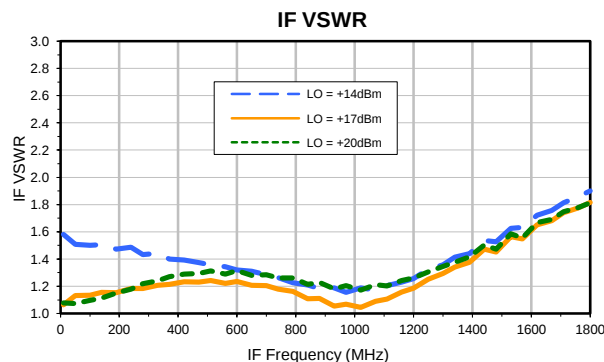
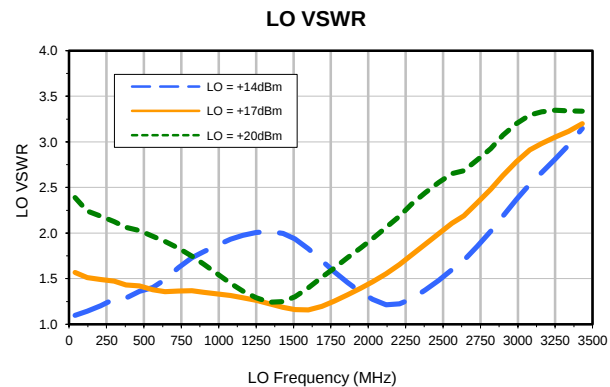
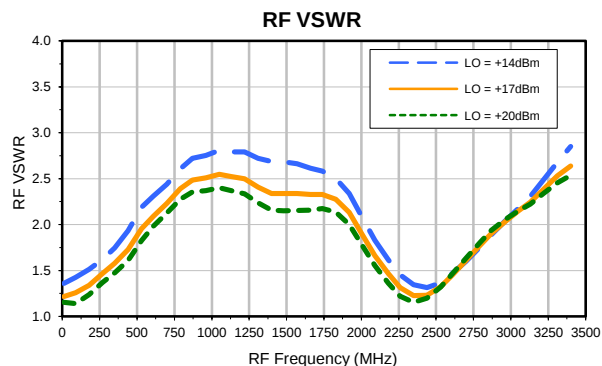
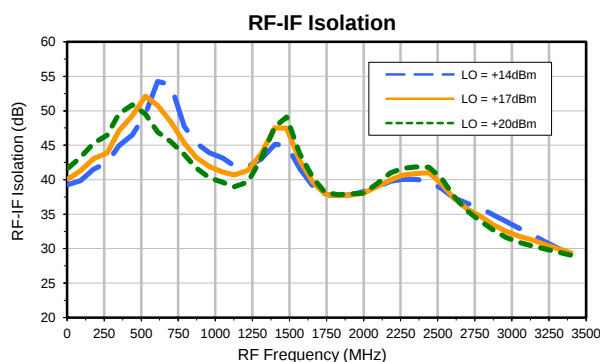
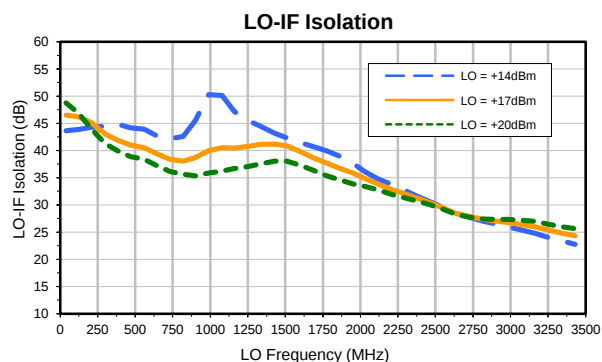
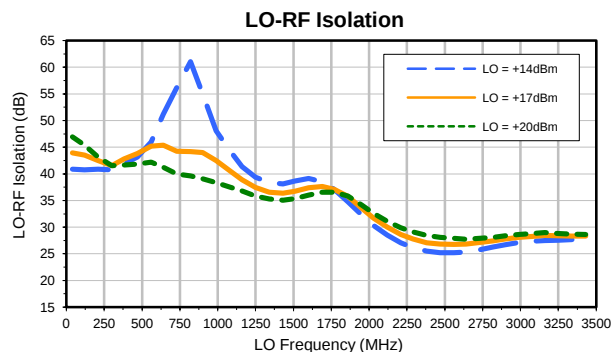


Typical Performance Curves



Typical Performance Curves



Frequency Mixer

SYM-ED17165/1

Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	----	----	17.5	10.1	24.4	22.8	25.6	42.2	27.6	43.5	44.1	55.0
1	----	38.0	----	49.1	14.3	44.3	28.9	48.1	48.6	46.7	55.1	66.7
2	100.8	54.5	60.3	61.8	57.4	52.0	64.7	55.4	60.8	68.4	58.2	63.0
3	112.3	84.4	77.6	84.2	64.7	82.4	59.5	89.1	62.9	89.0	74.8	91.4
4	110.9	102.9	97.4	96.6	92.1	87.9	87.9	92.0	94.7	99.1	102.7	96.6
5	111.3	102.9	103.0	104.5	98.7	102.8	101.2	102.7	101.2	103.7	97.7	103.4
6	111.6	104.8	103.9	104.6	104.7	102.2	102.4	101.5	103.6	102.0	104.1	104.0
7	112.1	102.6	103.9	103.7	104.2	102.1	101.1	102.4	101.4	102.1	104.1	104.2
8	114.0	103.1	104.7	102.6	104.3	103.7	103.6	104.1	101.4	103.8	100.4	102.1
9	111.2	102.4	104.3	101.7	105.5	101.7	103.8	103.8	102.2	101.0	102.9	99.8
10	108.9	102.1	102.8	102.1	102.9	103.1	105.0	103.1	102.2	101.2	100.4	103.7
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions:

RF IN: 1505 MHz; 0 dBm.

LO IN: 1535 MHz; +17.00 dBm

IF OUT: 30 MHz; -6.50 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	----	----	26.7	20.7	36.6	35.6	40.0	53.2	48.2	63.3	60.4	74.5
1	----	38.7	----	48.9	14.7	46.0	31.0	52.1	63.5	51.6	58.5	76.2
2	85.8	45.9	49.9	56.3	45.2	44.8	52.1	49.5	52.0	74.8	51.1	61.9
3	97.6	70.8	44.9	65.4	55.9	83.4	43.8	64.7	49.1	64.0	63.5	64.1
4	106.1	69.1	83.0	59.0	69.5	57.2	76.3	56.2	86.8	59.7	75.8	67.8
5	107.5	80.8	65.3	89.0	58.5	78.8	55.3	71.6	54.0	72.0	57.8	84.3
6	106.1	89.2	99.3	82.6	97.9	72.6	79.4	67.8	73.0	72.4	79.4	83.1
7	105.1	87.6	91.4	93.7	82.0	95.4	74.0	88.9	71.9	92.5	80.1	88.2
8	105.7	103.9	92.5	99.3	102.5	90.8	107.2	82.7	96.4	80.7	92.6	81.5
9	104.8	114.0	108.1	101.5	103.7	113.4	97.5	109.9	88.6	101.7	84.0	90.7
10	103.5	111.6	112.5	112.6	101.1	109.3	108.4	104.8	113.2	100.8	101.0	94.5
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions:

RF IN: 1505 MHz;+10 dBm.

LO IN: 1535 MHz; +17.00 dBm

IF OUT: 30 MHz; 3.47 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.