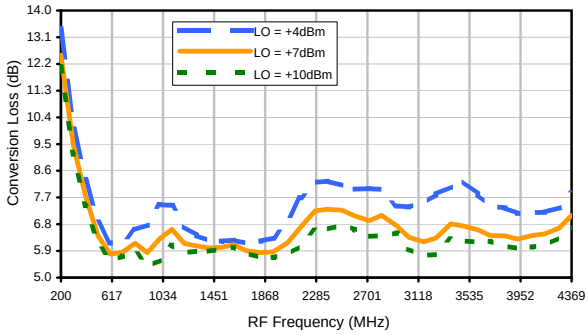
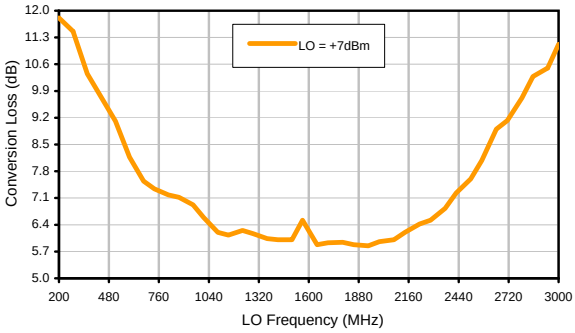
Frequency Mixer SRA-2400+

Typical Performance Curves

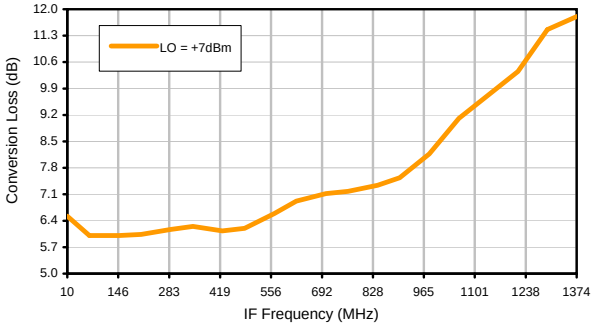
Conversion Loss @ IF=30MHz



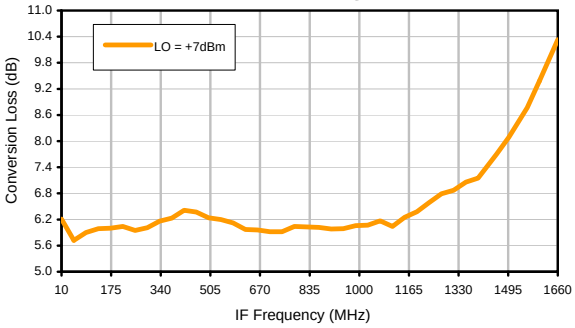
Conversion Loss vs. LO @ RF=1575MHz



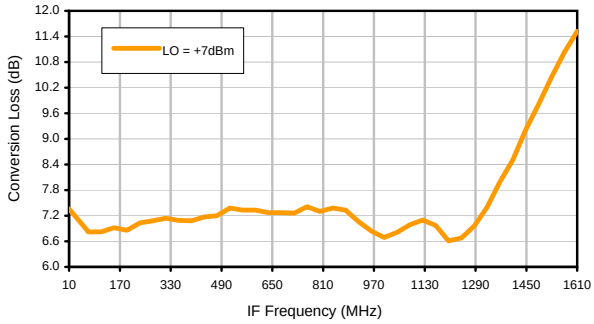
Conversion Loss vs. IF @ RF=1575MHz



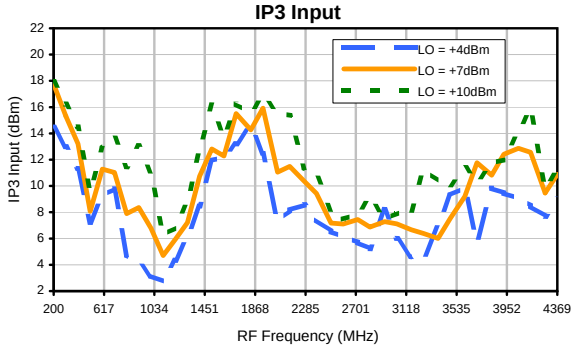
Conversion Loss vs. IF @ RF=740MHz



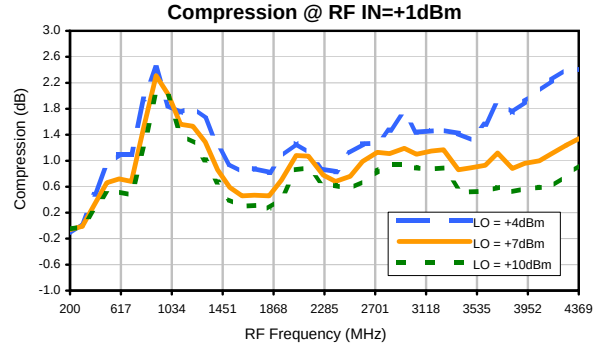
Conversion Loss vs. IF @ RF=2410.1MHz



IP3 Input

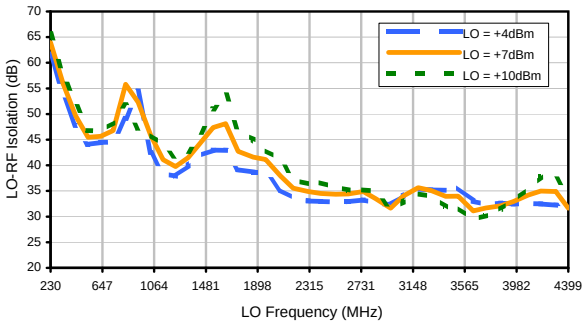


Compression @ RF IN=+1dBm

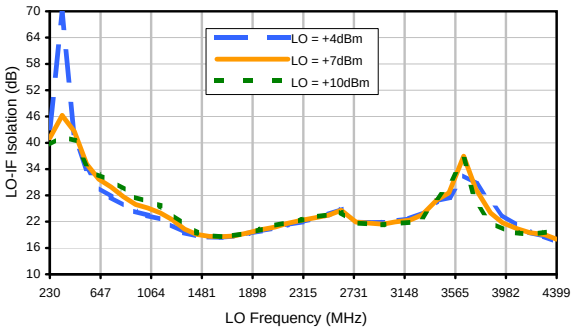


Typical Performance Curves

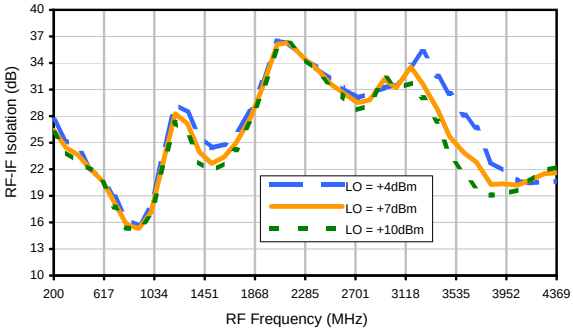
LO-RF Isolation



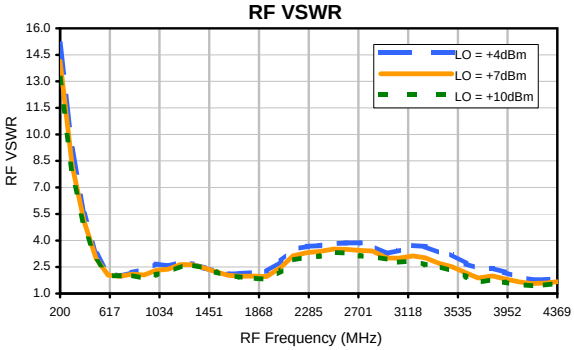
LO-IF Isolation



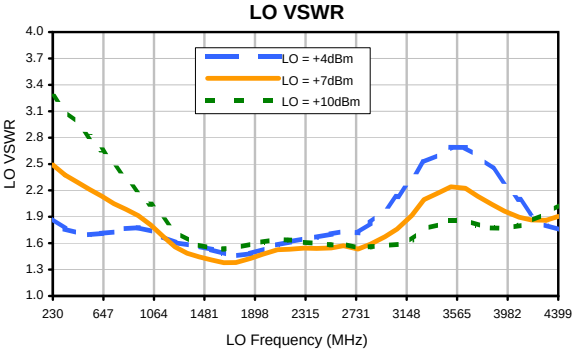
RF-IF Isolation



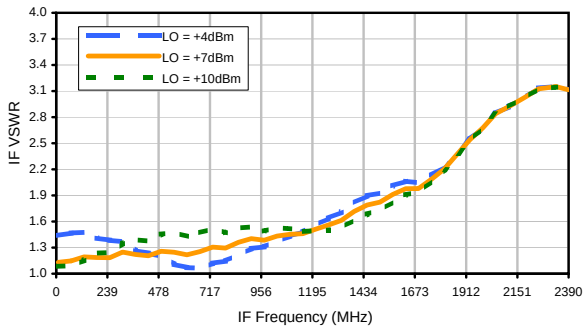
RF VSWR



LO VSWR



IF VSWR



Harmonics Tables

RF HARMONICS ORDER	(-dBm)	(-dBc)										
0	-	-	+9	23	13	62	27	38	27	40	33	52
1	-	16	+0	26	17	34	40	52	35	50	44	48
2	85	53	45	63	48	55	50	>70	55	61	54	69
3	>90	69	69	63	61	>70	66	70	>70	>70	>70	>70
4	>90	>70	>70	>70	>70	>70	>70	>70	>70	>70	>70	>70
5	>90	>70	>70	>70	>70	>70	>70	>70	>70	>70	>70	>70
6	>90	>70	>70	>70	>70	>70	>70	>70	>70	>70	>70	>70
7	>90	>70	>70	>70	>70	>70	>70	>70	>70	>70	>70	>70
8	>90	>70	>70	>70	>70	>70	>70	>70	>70	>70	>70	>70
9	>90	>70	>70	>70	>70	>70	>70	>70	>70	>70	>70	>70
10	>90	>70	>70	>70	>70	>70	>70	>70	>70	>70	>70	>70
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

Test conditions: RF IN: 1575 MHz; -14.00 dBm.
LO IN: 1605 MHz; +7.00 dBm
IF OUT: 30 MHz; -20.1 dBm

RF HARMONICS ORDER	(-dBm)	(-dBc)										
0	-	-	1	31	24	63	42	50	44	61	47	67
1	-	16	+0	27	18	38	42	53	41	65	55	62
2	64	46	40	55	43	52	44	>80	50	65	51	62
3	>90	49	44	45	40	53	46	54	60	63	56	66
4	>90	80	66	60	53	61	61	62	59	>80	61	69
5	>90	>80	>80	72	73	63	65	73	68	70	76	76
6	>90	77	>80	>80	76	72	68	71	>80	70	74	>80
7	>90	>80	>80	>80	>80	>80	>80	>80	78	>80	>80	>80
8	>90	>80	>80	>80	>80	>80	>80	>80	>80	>80	>80	78
9	>90	>80	>80	>80	>80	>80	>80	>80	>80	>80	>80	>80
10	>90	>80	>80	>80	>80	>80	>80	>80	>80	>80	>80	>80
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 1575 MHz; -4.00 dBm.
LO IN: 1605 MHz; +7.00 dBm
IF OUT: 30 MHz; -10.21 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.