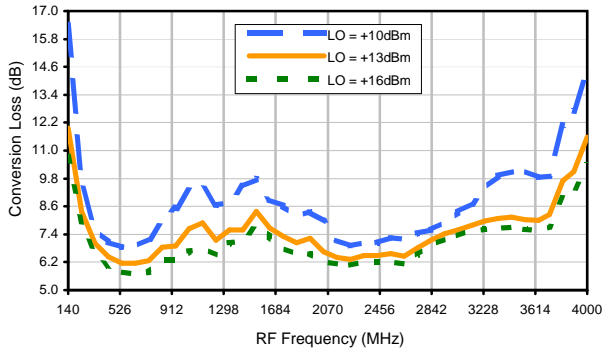


Frequency Mixer

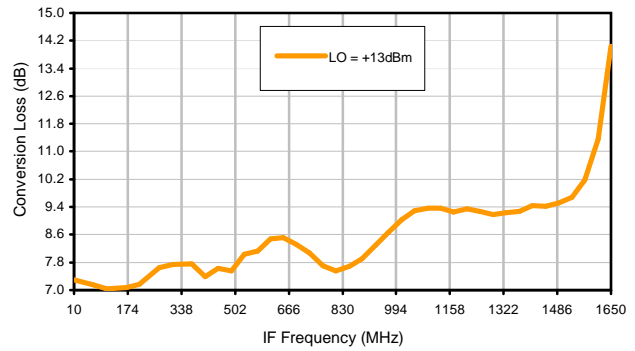
MCA-35MH+

Typical Performance Curves

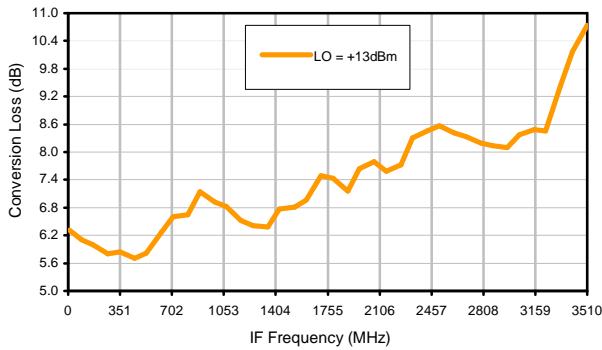
Conversion Loss @ IF=30MHz



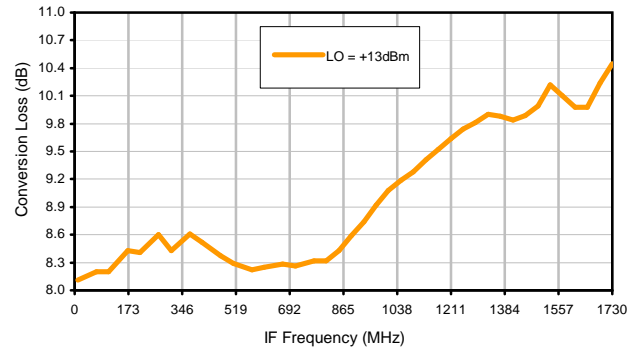
Conversion Loss vs. IF @ RF=1760.1MHz



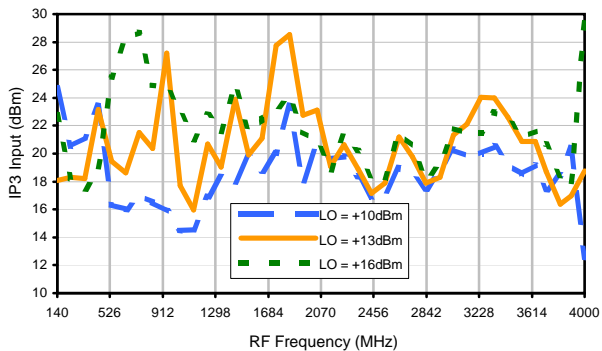
Conversion Loss vs. IF @ RF=489.9MHz



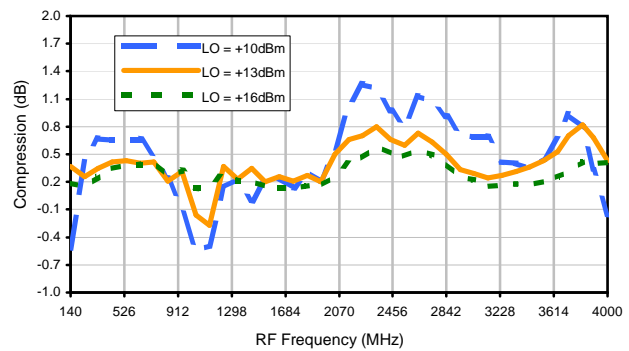
Conversion Loss vs. IF @ RF=3510.1MHz



IP3 Input

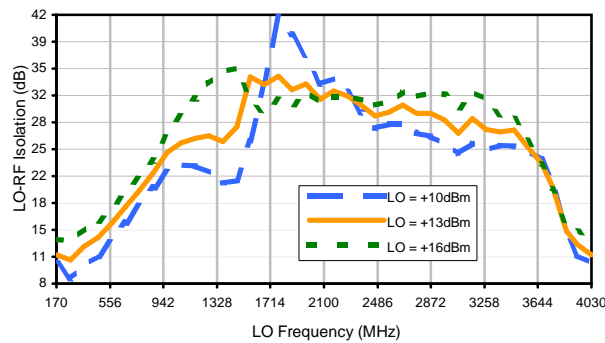


Compression @ RF IN=+9dBm

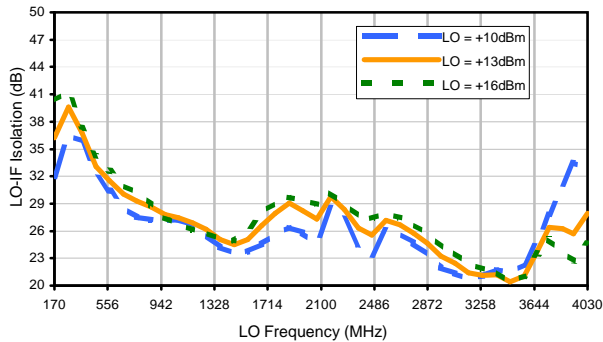


Typical Performance Curves

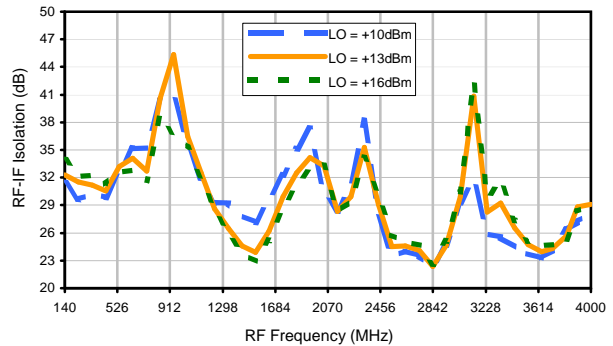
LO-RF Isolation



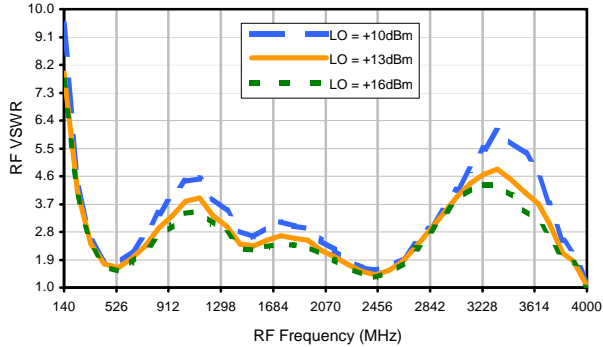
LO-IF Isolation



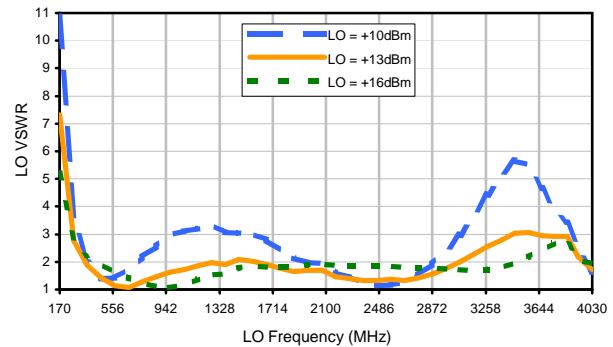
RF-IF Isolation



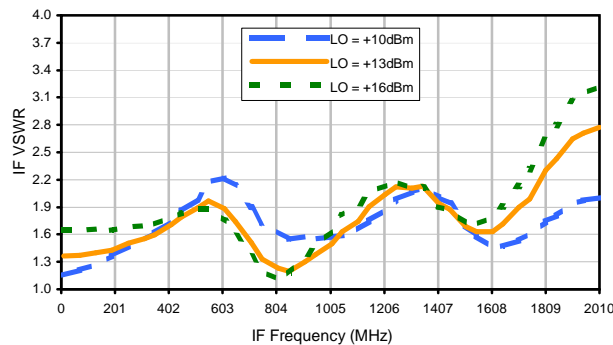
RF VSWR



LO VSWR



IF VSWR



Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	1	22	7	27	18	30	36	41	41	50
1	-	50	+0	36	15	43	32	36	37	48	50	50
2	71	57	62	53	56	59	49	62	57	70	73	69
3	>90	>77	69	69	64	>77	71	74	70	70	72	>77
4	>90	>77	>77	>77	>77	>77	>77	>77	>77	>77	>77	>77
5	>90	>77	>77	>77	>77	>77	>77	>77	>77	>77	>77	>77
6	>90	>77	>77	>77	>77	>77	>77	>77	>77	>77	>77	>77
7	>90	>77	>77	>77	>77	>77	>77	>77	>77	>77	>77	>77
8	>90	>77	>77	>77	>77	>77	>77	>77	>77	>77	>77	>77
9	89	>77	>77	>77	>77	>77	>77	>77	>77	>77	>77	>77
10	>90	>77	>77	>77	>77	>77	>77	>77	>77	>77	>77	>77
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

Test conditions: RF IN: 2000 MHz; -6.00 dBm.
 LO IN: 2030 MHz; +13.00 dBm
 IF OUT: 30 MHz; -13 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	11	31	18	37	30	44	49	60	51	71
1	-	43	+0	34	16	43	34	38	39	52	56	53
2	51	49	50	44	45	51	39	55	49	55	65	63
3	85	52	50	46	48	62	51	58	48	52	60	65
4	>90	67	66	71	64	67	63	66	69	76	64	72
5	>90	66	65	64	66	67	60	75	65	82	81	75
6	>90	85	73	>87	79	78	74	71	78	72	78	82
7	>90	>87	86	82	>87	82	85	85	84	85	>87	>87
8	>90	>87	>87	>87	85	>87	>87	>87	85	82	>87	87
9	>90	>87	>87	>87	>87	>87	>87	>87	>87	>87	>87	>87
10	>90	>87	>87	>87	>87	>87	>87	>87	>87	>87	>87	>87
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 2000 MHz; 4.00 dBm.
 LO IN: 2030 MHz; +13.00 dBm
 IF OUT: 30 MHz; -3.07 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.