

Frequency Mixer

ZEM-M2TMH+

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	CONVERSION LOSS IF FIXED @IF(OUT)=30MHz (dB)			RF (IN) (MHz)	LO (MHz)	IP3 INPUT (dBm)			RF (IN) (MHz)	LO (MHz)	COMPRESSION @RF IN=+9dBm (dB)		
		@LO (dBm)					@LO (dBm)					@LO (dBm)		
		+10	+13	+16			+10	+13	+16			+10	+13	+16
10.1	40.1	7.08	6.60	6.33	10.1	40.1	25.15	28.97	32.47	10.1	40.1	0.74	0.35	0.12
110.1	140.1	7.63	7.15	6.93	110.1	140.1	26.12	29.65	32.53	110.1	140.1	0.50	0.21	0.10
210.1	240.1	7.63	7.14	6.91	210.1	240.1	24.01	26.01	25.68	210.1	240.1	0.57	0.28	0.14
310.1	340.1	7.70	7.21	6.97	310.1	340.1	26.16	27.50	23.94	310.1	340.1	0.53	0.24	0.12
410.1	440.1	7.68	7.23	7.01	410.1	440.1	23.13	22.27	24.50	410.1	440.1	0.62	0.27	0.13
510.1	540.1	7.76	7.27	7.04	510.1	540.1	24.02	21.65	24.89	510.1	540.1	0.52	0.24	0.12
610.1	640.1	7.65	7.23	7.03	610.1	640.1	19.72	22.75	28.32	610.1	640.1	0.64	0.28	0.13
710.1	740.1	7.72	7.30	7.09	710.1	740.1	19.74	23.30	31.49	710.1	740.1	0.62	0.28	0.15
810.1	840.1	7.75	7.35	7.14	810.1	840.1	19.21	25.44	32.07	810.1	840.1	0.63	0.28	0.16
910.1	940.1	7.68	7.32	7.14	910.1	940.1	22.11	27.42	24.29	910.1	940.1	0.72	0.30	0.19
1010.1	1040.1	7.67	7.32	7.15	1010.1	1040.1	21.25	25.88	25.49	1010.1	1040.1	0.67	0.28	0.16
1110.1	1140.1	7.69	7.33	7.16	1110.1	1140.1	22.07	26.44	25.74	1110.1	1140.1	0.68	0.29	0.17
1210.1	1240.1	7.85	7.46	7.25	1210.1	1240.1	22.01	27.48	28.06	1210.1	1240.1	0.56	0.24	0.16
1310.1	1340.1	7.94	7.55	7.34	1310.1	1340.1	22.78	26.98	26.95	1310.1	1340.1	0.59	0.25	0.16
1410.1	1440.1	7.98	7.57	7.36	1410.1	1440.1	24.52	28.03	27.29	1410.1	1440.1	0.61	0.25	0.15
1510.1	1540.1	8.09	7.66	7.45	1510.1	1540.1	22.89	24.87	26.20	1510.1	1540.1	0.59	0.26	0.16
1610.1	1640.1	8.20	7.74	7.51	1610.1	1640.1	24.06	24.11	24.04	1610.1	1640.1	0.58	0.28	0.16
1710.1	1740.1	8.41	7.92	7.66	1710.1	1740.1	22.94	27.78	29.46	1710.1	1740.1	0.56	0.27	0.15
1810.1	1840.1	8.56	8.03	7.78	1810.1	1840.1	22.87	26.83	32.11	1810.1	1840.1	0.49	0.26	0.17
1910.1	1940.1	8.82	8.23	7.93	1910.1	1940.1	21.61	28.29	31.52	1910.1	1940.1	0.47	0.27	0.18
2010.1	2040.1	8.87	8.27	7.93	2010.1	2040.1	24.87	29.41	29.71	2010.1	2040.1	0.44	0.26	0.20
2110.1	2140.1	8.81	8.26	7.93	2110.1	2140.1	24.45	27.64	30.73	2110.1	2140.1	0.56	0.28	0.20
2210.1	2240.1	9.16	8.50	8.14	2210.1	2240.1	22.52	27.88	31.93	2210.1	2240.1	0.45	0.26	0.16
2310.1	2340.1	9.37	8.64	8.22	2310.1	2340.1	21.59	31.68	30.10	2310.1	2340.1	0.41	0.25	0.16
2410.1	2440.1	9.46	8.76	8.31	2410.1	2440.1	22.34	31.62	27.95	2410.1	2440.1	0.41	0.25	0.16
2510.1	2540.1	9.52	8.83	8.39	2510.1	2540.1	22.73	27.63	25.52	2510.1	2540.1	0.34	0.18	0.15
2610.1	2640.1	9.70	9.03	8.59	2610.1	2640.1	23.98	23.42	22.80	2610.1	2640.1	0.38	0.17	0.13
2710.1	2740.1	9.90	9.20	8.77	2710.1	2740.1	22.22	22.33	22.41	2710.1	2740.1	0.29	0.13	0.07
2830.1	2860.1	9.53	8.87	8.46	2830.1	2860.1	20.14	20.52	21.38	2830.1	2860.1	0.44	0.28	0.15
2930.1	2960.1	9.47	8.78	8.37	2930.1	2960.1	19.94	19.78	20.98	2930.1	2960.1	0.48	0.34	0.21
3050.1	3080.1	9.49	8.75	8.32	3050.1	3080.1	21.48	20.12	20.75	3050.1	3080.1	0.55	0.38	0.26
3150.1	3180.1	9.63	8.95	8.48	3150.1	3180.1	21.21	20.85	21.15	3150.1	3180.1	0.48	0.31	0.24
3270.1	3300.1	9.76	9.16	8.70	3270.1	3300.1	20.12	20.08	20.36	3270.1	3300.1	0.44	0.25	0.18
3370.1	3400.1	9.95	9.30	8.83	3370.1	3400.1	20.14	20.20	20.67	3370.1	3400.1	0.44	0.23	0.17
3490.1	3520.1	10.18	9.54	9.01	3490.1	3520.1	21.10	20.99	20.87	3490.1	3520.1	0.47	0.22	0.14
3590.1	3620.1	10.31	9.69	9.18	3590.1	3620.1	21.04	22.26	21.98	3590.1	3620.1	0.53	0.24	0.16
3710.1	3740.1	10.24	9.55	9.11	3710.1	3740.1	19.61	21.25	21.40	3710.1	3740.1	0.75	0.34	0.22
3810.1	3840.1	10.35	9.62	9.18	3810.1	3840.1	18.79	20.44	20.88	3810.1	3840.1	0.80	0.38	0.24
3930.1	3960.1	10.67	9.87	9.38	3930.1	3960.1	19.01	19.98	20.84	3930.1	3960.1	0.79	0.39	0.27
4030.1	4060.1	10.96	10.12	9.61	4030.1	4060.1	19.61	20.09	20.80	4030.1	4060.1	0.80	0.37	0.28

Frequency Mixer

ZEM-M2TMH+

Typical Performance Data

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=1210.1MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=10MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=2410.1MHz (dB)
		@LO (dBm)			@LO (dBm)			@LO (dBm)
		+13			+13			+13
1190.1	20.0	7.56	10.1	20.1	7.22	2390.1	20.0	8.33
1150.1	60.0	7.55	130.1	140.1	6.55	2330.1	80.0	8.39
1110.1	100.0	7.56	250.1	260.1	6.60	2270.1	140.0	8.34
1090.1	120.0	7.64	370.1	380.1	6.53	2210.1	200.0	8.30
1050.1	160.0	7.59	490.1	500.1	6.56	2150.1	260.0	8.39
1030.1	180.0	7.57	610.1	620.1	6.58	2090.1	320.0	8.36
990.1	220.0	7.57	730.1	740.1	6.62	2030.1	380.0	8.41
970.1	240.0	7.56	850.1	860.1	6.57	1970.1	440.0	8.59
930.1	280.0	7.57	970.1	980.1	6.63	1910.1	500.0	8.71
910.1	300.0	7.56	1070.1	1080.1	6.60	1850.1	560.0	8.79
870.1	340.0	7.56	1190.1	1200.1	6.64	1790.1	620.0	8.73
850.1	360.0	7.56	1290.1	1300.1	6.72	1730.1	680.0	8.55
810.1	400.0	7.56	1410.1	1420.1	6.75	1670.1	740.0	8.54
790.1	420.0	7.54	1510.1	1520.1	6.88	1610.1	800.0	8.58
750.1	460.0	7.53	1630.1	1640.1	6.97	1550.1	860.0	8.52
730.1	480.0	7.49	1730.1	1740.1	7.18	1490.1	920.0	8.48
690.1	520.0	7.50	1850.1	1860.1	7.51	1430.1	980.0	8.43
670.1	540.0	7.52	1950.1	1960.1	7.60	1370.1	1040.0	8.42
630.1	580.0	7.45	2070.1	2080.1	7.64	1310.1	1100.0	8.41
610.1	600.0	7.43	2170.1	2180.1	7.54	1250.1	1160.0	8.39
570.1	640.0	7.39	2290.1	2300.1	7.50	1190.1	1220.0	8.33
550.1	660.0	7.39	2390.1	2400.1	7.56	1130.1	1280.0	8.32
510.1	700.0	7.37	2510.1	2520.1	7.47	1070.1	1340.0	8.38
490.1	720.0	7.34	2610.1	2620.1	7.58	1010.1	1400.0	8.38
450.1	760.0	7.35	2730.1	2740.1	7.47	950.1	1460.0	8.32
430.1	780.0	7.25	2830.1	2840.1	7.26	890.1	1520.0	8.30
390.1	820.0	7.30	2950.1	2960.1	7.26	830.1	1580.0	8.29
370.1	840.0	7.30	3050.1	3060.1	7.29	770.1	1640.0	8.33
330.1	880.0	7.26	3170.1	3180.1	7.30	710.1	1700.0	8.38
310.1	900.0	7.32	3270.1	3280.1	7.36	650.1	1760.0	8.33
270.1	940.0	7.28	3390.1	3400.1	7.57	590.1	1820.0	8.30
250.1	960.0	7.27	3490.1	3500.1	7.68	530.1	1880.0	8.34
210.1	1000.0	7.28	3610.1	3620.1	7.67	470.1	1940.0	8.24
190.1	1020.0	7.27	3710.1	3720.1	7.75	410.1	2000.0	8.46
150.1	1060.0	7.30	3830.1	3840.1	7.81	350.1	2060.0	8.50
130.1	1080.0	7.32	3930.1	3940.1	8.19	290.1	2120.0	8.53
90.1	1120.0	7.38	4050.1	4060.1	8.66	210.1	2200.0	8.60
70.1	1140.0	7.43	4150.1	4160.1	8.96	150.1	2260.0	8.61
30.1	1180.0	7.43	4270.1	4280.1	9.00	70.1	2340.0	8.68
10.1	1200.0	8.06	4370.1	4380.1	9.83	10.1	2400.0	9.33

REV. X3

ZEM-M2TMH+

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Frequency Mixer

ZEM-M2TMH+

Typical Performance Data

LO (MHz)	LO-RF ISOLATION (dB)			LO-IF ISOLATION (dB)			RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB)		
	@LO (dBm)			@LO (dBm)					@LO (dBm)		
	+10	+13	+16	+10	+13	+16			+10	+13	+16
40.1	43.70	47.90	51.28	43.45	46.94	49.50	10.1	40.1	25.46	26.08	26.59
140.1	44.94	48.03	49.04	43.94	46.63	47.45	110.1	140.1	26.10	26.84	27.13
240.1	44.33	45.54	45.32	44.17	45.40	44.76	210.1	240.1	27.16	27.72	28.21
340.1	44.55	44.12	43.01	45.24	44.40	42.76	310.1	340.1	28.43	29.11	29.49
440.1	43.67	42.59	41.07	45.45	43.30	41.12	410.1	440.1	29.90	30.80	31.27
540.1	43.23	41.03	39.68	45.84	42.02	39.86	510.1	540.1	30.39	31.40	32.26
640.1	42.71	40.30	38.68	45.06	40.92	38.58	610.1	640.1	31.64	32.17	32.35
740.1	41.89	39.10	37.22	43.86	39.71	37.38	710.1	740.1	31.78	32.24	32.42
840.1	41.88	38.41	36.48	43.49	38.74	36.46	810.1	840.1	32.11	32.23	32.25
940.1	43.16	39.25	37.12	45.26	39.45	36.65	910.1	940.1	34.04	33.84	33.22
1040.1	44.22	41.14	39.16	45.11	40.16	37.32	1010.1	1040.1	35.06	34.82	34.21
1140.1	43.63	40.62	38.86	43.92	39.38	36.86	1110.1	1140.1	34.65	34.20	33.94
1240.1	43.39	40.41	38.58	43.53	39.59	37.20	1210.1	1240.1	35.20	34.85	34.23
1340.1	42.68	40.96	39.54	41.87	39.46	37.48	1310.1	1340.1	33.81	33.24	32.94
1440.1	43.28	41.14	39.58	43.33	40.21	37.66	1410.1	1440.1	36.79	36.95	37.03
1540.1	43.78	42.02	40.73	43.23	40.82	38.26	1510.1	1540.1	37.90	37.50	37.12
1640.1	43.63	42.41	40.81	42.49	41.10	38.53	1610.1	1640.1	36.62	35.49	34.93
1740.1	43.82	42.86	41.49	42.03	40.97	38.53	1710.1	1740.1	35.45	34.59	33.90
1840.1	44.25	43.04	41.74	42.22	40.84	38.56	1810.1	1840.1	32.46	31.89	31.63
1940.1	44.66	43.26	42.36	42.02	40.39	38.84	1910.1	1940.1	28.87	29.07	29.58
2040.1	47.33	43.93	42.20	42.63	39.62	37.54	2010.1	2040.1	27.39	27.85	28.25
2140.1	48.21	47.01	45.31	41.60	39.32	37.28	2110.1	2140.1	27.40	27.46	27.58
2240.1	44.30	43.83	43.14	39.69	37.84	36.24	2210.1	2240.1	29.86	30.14	30.41
2340.1	41.43	41.37	40.99	38.26	36.52	35.01	2310.1	2340.1	29.98	30.16	30.35
2440.1	38.49	38.82	38.66	36.48	35.29	33.97	2410.1	2440.1	30.27	30.48	30.74
2540.1	35.41	36.12	36.53	32.90	32.59	31.94	2510.1	2540.1	31.19	31.07	31.16
2640.1	25.31	26.61	27.70	23.84	24.87	25.50	2610.1	2640.1	32.94	32.89	33.11
2740.1	28.49	29.70	30.86	28.48	28.91	29.05	2710.1	2740.1	21.73	21.55	21.40
2860.1	39.12	40.95	42.76	33.36	32.94	32.34	2830.1	2860.1	26.92	26.77	26.72
2960.1	44.75	44.92	44.66	32.38	31.98	31.45	2930.1	2960.1	27.13	27.03	26.96
3080.1	49.79	47.86	46.20	31.08	30.71	30.26	3050.1	3080.1	27.28	27.28	27.34
3180.1	47.10	45.85	44.87	30.18	30.20	29.91	3150.1	3180.1	27.30	27.32	27.33
3300.1	43.17	42.74	42.31	29.01	29.48	29.54	3270.1	3300.1	27.13	27.23	27.32
3400.1	41.69	41.73	41.54	28.61	29.05	29.22	3370.1	3400.1	26.89	27.17	27.60
3520.1	39.77	40.25	40.62	28.16	29.02	29.29	3490.1	3520.1	27.24	27.44	27.45
3620.1	38.94	39.66	40.16	27.69	28.82	29.43	3590.1	3620.1	28.00	28.62	29.26
3740.1	38.16	38.97	39.81	27.53	28.70	29.66	3710.1	3740.1	27.45	28.26	28.99
3840.1	37.42	38.36	39.32	27.63	28.78	29.96	3810.1	3840.1	27.17	28.25	29.17
3960.1	36.79	37.82	38.80	28.30	29.26	30.45	3930.1	3960.1	25.87	26.86	27.98
4060.1	36.35	37.35	38.28	29.82	30.54	31.66	4030.1	4060.1	24.72	25.62	26.69

Frequency Mixer

ZEM-M2TMH+

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	RF VSWR (:1)		
		@LO (dBm)		
		+10	+13	+16
10.1	40.1	1.28	1.14	1.10
110.1	140.1	1.13	1.07	1.12
210.1	240.1	1.18	1.12	1.15
310.1	340.1	1.23	1.17	1.19
410.1	440.1	1.28	1.23	1.23
510.1	540.1	1.34	1.27	1.26
610.1	640.1	1.38	1.31	1.30
710.1	740.1	1.44	1.36	1.33
810.1	840.1	1.49	1.40	1.37
910.1	940.1	1.51	1.43	1.40
1010.1	1040.1	1.51	1.43	1.39
1110.1	1140.1	1.55	1.44	1.39
1210.1	1240.1	1.60	1.48	1.41
1310.1	1340.1	1.66	1.53	1.45
1410.1	1440.1	1.66	1.52	1.44
1510.1	1540.1	1.68	1.53	1.44
1610.1	1640.1	1.71	1.55	1.44
1710.1	1740.1	1.74	1.58	1.48
1810.1	1840.1	1.76	1.60	1.51
1910.1	1940.1	1.81	1.64	1.55
2010.1	2040.1	1.80	1.64	1.53
2110.1	2140.1	1.76	1.61	1.52
2210.1	2240.1	1.84	1.70	1.61
2310.1	2340.1	1.86	1.72	1.62
2410.1	2440.1	1.82	1.69	1.60
2510.1	2540.1	1.75	1.64	1.55
2610.1	2640.1	1.62	1.53	1.45
2710.1	2740.1	1.70	1.59	1.52
2830.1	2860.1	1.45	1.35	1.28
2930.1	2960.1	1.35	1.25	1.18
3050.1	3080.1	1.25	1.15	1.07
3150.1	3180.1	1.20	1.12	1.06
3270.1	3300.1	1.17	1.12	1.10
3370.1	3400.1	1.20	1.17	1.17
3490.1	3520.1	1.24	1.23	1.25
3590.1	3620.1	1.32	1.32	1.33
3710.1	3740.1	1.44	1.44	1.45
3810.1	3840.1	1.55	1.55	1.57
3930.1	3960.1	1.66	1.65	1.66
4030.1	4060.1	1.78	1.77	1.77

LO (MHz)	LO VSWR (:1)		
	@LO (dBm)		
	+10	+13	+16
40.1	1.13	1.46	2.15
140.1	1.14	1.41	2.06
240.1	1.15	1.40	2.03
340.1	1.12	1.40	2.00
440.1	1.13	1.40	2.00
540.1	1.09	1.41	2.01
640.1	1.08	1.42	2.02
740.1	1.06	1.44	2.04
840.1	1.04	1.46	2.05
940.1	1.05	1.47	2.07
1040.1	1.09	1.49	2.08
1140.1	1.14	1.50	2.08
1240.1	1.18	1.51	2.09
1340.1	1.21	1.52	2.08
1440.1	1.24	1.51	2.06
1540.1	1.27	1.50	2.03
1640.1	1.29	1.50	2.02
1740.1	1.30	1.50	2.00
1840.1	1.29	1.48	1.98
1940.1	1.27	1.47	1.96
2040.1	1.24	1.46	1.96
2140.1	1.20	1.45	1.96
2240.1	1.16	1.46	1.97
2340.1	1.12	1.48	2.00
2440.1	1.10	1.51	2.03
2540.1	1.15	1.59	2.12
2640.1	1.29	1.75	2.30
2740.1	1.11	1.55	2.05
2860.1	1.28	1.74	2.27
2960.1	1.38	1.84	2.37
3080.1	1.50	1.95	2.47
3180.1	1.58	2.04	2.54
3300.1	1.66	2.07	2.54
3400.1	1.74	2.14	2.58
3520.1	1.81	2.19	2.61
3620.1	1.87	2.24	2.66
3740.1	1.99	2.34	2.77
3840.1	2.14	2.44	2.84
3960.1	2.32	2.57	2.93
4060.1	2.41	2.63	2.95

IF (OUT) (MHz)	IF VSWR @LO=2400MHz (:1)		
	@LO (dBm)		
	+10	+13	+16
10.0	1.13	1.09	1.19
70.0	1.11	1.05	1.18
130.0	1.12	1.05	1.16
190.0	1.16	1.06	1.15
250.0	1.18	1.08	1.14
310.0	1.20	1.11	1.17
370.0	1.23	1.12	1.15
430.0	1.26	1.15	1.16
490.0	1.29	1.17	1.16
550.0	1.32	1.19	1.15
610.0	1.35	1.22	1.18
670.0	1.40	1.27	1.20
730.0	1.41	1.27	1.20
790.0	1.49	1.34	1.26
850.0	1.52	1.36	1.27
910.0	1.54	1.38	1.29
970.0	1.63	1.46	1.35
1030.0	1.64	1.47	1.36
1090.0	1.68	1.51	1.39
1150.0	1.74	1.56	1.44
1210.0	1.77	1.59	1.47
1270.0	1.81	1.62	1.50
1330.0	1.86	1.68	1.55
1390.0	1.85	1.67	1.54
1450.0	1.94	1.75	1.62
1510.0	1.91	1.72	1.59
1570.0	1.96	1.77	1.64
1630.0	1.96	1.78	1.65
1690.0	1.97	1.79	1.67
1750.0	1.96	1.80	1.68
1810.0	1.96	1.80	1.68
1870.0	1.94	1.79	1.68
1930.0	1.92	1.77	1.66
1990.0	2.00	1.85	1.75
2050.0	1.98	1.82	1.70
2110.0	2.03	1.86	1.74
2150.0	2.05	1.88	1.75
2210.0	2.00	1.82	1.69
2250.0	2.01	1.83	1.70
2310.0	2.00	1.82	1.70

Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	13	18	17	25	24	38	32	43	26	41
1	-	26	+0	38	13	41	20	37	40	41	45	60
2	76	56	63	61	56	60	57	63	60	65	65	67
3	>90	73	70	71	68	>76	65	>76	63	>76	71	74
4	>90	>76	>76	>76	>76	>76	>76	>76	>76	>76	>76	>76
5	>90	>76	>76	>76	>76	>76	>76	73	>76	>76	>76	>76
6	>90	>76	>76	>76	>76	>76	>76	>76	>76	>76	>76	>76
7	>90	>76	>76	>76	>76	>76	>76	>76	>76	>76	>76	>76
8	>90	>76	>76	>76	>76	>76	>76	>76	71	>76	>76	>76
9	>90	>76	>76	>76	>76	>76	>76	>76	>76	>76	>76	>76
10	>90	>76	>76	>76	>76	>76	>76	>76	>76	>76	>76	>76
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 1205 MHz; -6.00 dBm.
 LO IN: 1235 MHz; +13.00 dBm
 IF OUT: 30 MHz; -13.54 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	23	29	28	36	36	47	47	56	44	53
1	-	26	+0	36	13	42	21	40	41	46	49	65
2	56	47	52	53	46	51	47	70	52	62	59	61
3	84	57	46	57	47	62	51	68	45	57	58	57
4	>90	74	74	67	78	66	74	64	76	63	70	69
5	>90	77	70	>86	68	74	66	79	63	76	63	83
6	>90	84	84	84	83	>86	84	86	80	84	81	78
7	>90	>86	>86	>86	84	>86	84	>86	84	>86	80	>86
8	>90	>86	>86	>86	>86	>86	>86	85	86	84	79	84
9	>90	>86	>86	>86	>86	>86	>86	>86	>86	>86	>86	83
10	>90	>86	>86	>86	>86	>86	>86	>86	>86	>86	82	>86
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 1205 MHz; 4.00 dBm.
 LO IN: 1235 MHz; +13.00 dBm
 IF OUT: 30 MHz; -3.59 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.