

Frequency Mixer

LAVI-ED17046/1

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	CONVERSION LOSS IF FIXED @IF(OUT)=1187.1MHz (dB)		
		@LO (dBm)		
		+14	+17	+20
10.1	1177.0	7.21	6.91	6.81
55.1	1132.0	7.11	6.87	6.70
101.1	1086.0	7.24	7.03	6.89
121.1	1066.0	7.15	6.91	6.75
139.1	1048.0	7.07	6.83	6.66
159.1	1028.0	7.13	6.89	6.72
179.1	1008.0	7.21	6.99	6.83
199.1	988.0	7.24	7.01	6.84
225.1	962.0	7.19	6.94	6.74
237.1	950.0	7.18	6.93	6.73
257.1	930.0	7.20	6.96	6.77
275.1	912.0	7.29	7.06	6.87
295.1	892.0	7.28	7.04	6.85
315.1	872.0	7.28	7.02	6.82
335.1	852.0	7.20	6.94	6.73
353.1	834.0	7.18	6.91	6.71
373.1	814.0	7.28	7.02	6.81
393.1	794.0	7.32	7.03	6.81
411.1	776.0	7.25	6.95	6.71
431.1	756.0	7.22	6.92	6.68
451.1	736.0	7.20	6.91	6.68
471.1	716.0	7.27	6.97	6.74
489.1	698.0	7.38	7.08	6.83
509.1	678.0	7.46	7.14	6.90
529.1	658.0	7.41	7.09	6.84
547.1	640.0	7.40	7.10	6.85
567.1	620.0	7.62	7.34	7.11
587.1	600.0	7.86	7.70	7.63
607.1	580.0	7.20	6.92	6.71
625.1	562.0	7.27	6.98	6.73
645.1	542.0	7.37	7.07	6.83
665.1	522.0	7.51	7.20	6.94
683.1	504.0	7.54	7.22	6.96
705.1	482.0	7.57	7.25	6.98
755.1	432.0	7.70	7.39	7.13
805.1	382.0	7.72	7.41	7.14
850.1	337.0	7.95	7.60	7.33
900.1	287.0	8.06	7.70	7.42
950.1	237.0	8.45	8.01	7.66
995.1	192.0	8.81	8.30	7.91

RF (IN) (MHz)	LO (MHz)	IP-3 INPUT (dBm)		
		@LO (dBm)		
		+14	+17	+20
10.1	1177.0	25.90	28.90	33.20
55.1	1132.0	26.18	29.71	32.69
101.1	1086.0	26.54	29.06	33.26
121.1	1066.0	26.77	29.83	33.00
139.1	1048.0	26.17	29.12	32.42
159.1	1028.0	25.93	29.02	32.88
179.1	1008.0	25.41	28.59	31.39
199.1	988.0	25.92	28.52	31.61
225.1	962.0	25.76	28.57	31.47
237.1	950.0	25.70	28.23	31.40
257.1	930.0	26.07	28.55	31.32
275.1	912.0	26.02	28.33	31.48
295.1	892.0	26.46	28.38	31.11
315.1	872.0	26.60	28.79	31.72
335.1	852.0	26.54	29.04	31.52
353.1	834.0	26.79	29.03	31.91
373.1	814.0	26.41	28.86	31.15
393.1	794.0	27.09	29.17	31.70
411.1	776.0	26.79	29.06	31.69
431.1	756.0	26.70	29.18	31.77
451.1	736.0	27.42	29.99	32.50
471.1	716.0	27.28	30.55	32.76
489.1	698.0	24.93	29.71	32.79
509.1	678.0	21.43	25.24	28.96
529.1	658.0	22.56	26.16	29.47
547.1	640.0	26.38	30.26	32.78
567.1	620.0	26.73	33.95	36.13
587.1	600.0	24.67	29.58	33.70
607.1	580.0	23.77	26.18	29.21
625.1	562.0	26.97	28.56	31.26
645.1	542.0	28.14	33.73	36.36
665.1	522.0	22.26	26.12	29.84
683.1	504.0	23.41	26.73	29.47
705.1	482.0	26.46	28.51	30.10
755.1	432.0	29.02	30.64	33.71
805.1	382.0	29.89	31.76	33.29
850.1	337.0	25.65	30.42	32.45
900.1	287.0	25.44	29.69	31.99
950.1	237.0	22.61	26.09	30.11
995.1	192.0	20.88	23.97	26.58

RF (IN) (MHz)	LO (MHz)	COMPRESSION @RF IN=+20dBm (dB)		
		@LO (dBm)		
		+14	+17	+20
10.1	1177.0	1.69	0.81	0.33
55.1	1132.0	1.52	0.65	0.28
101.1	1086.0	1.61	0.65	0.27
121.1	1066.0	1.92	0.76	0.30
139.1	1048.0	2.24	0.90	0.35
159.1	1028.0	2.24	0.97	0.40
179.1	1008.0	1.91	0.84	0.36
199.1	988.0	1.67	0.72	0.32
225.1	962.0	1.51	0.65	0.29
237.1	950.0	1.48	0.59	0.24
257.1	930.0	1.37	0.54	0.20
275.1	912.0	1.30	0.52	0.20
295.1	892.0	1.30	0.50	0.19
315.1	872.0	1.35	0.55	0.21
335.1	852.0	1.37	0.55	0.21
353.1	834.0	1.29	0.54	0.22
373.1	814.0	1.28	0.52	0.21
393.1	794.0	1.30	0.53	0.21
411.1	776.0	1.45	0.62	0.26
431.1	756.0	1.48	0.63	0.24
451.1	736.0	1.52	0.65	0.25
471.1	716.0	1.63	0.73	0.29
489.1	698.0	1.90	0.99	0.46
509.1	678.0	2.70	1.76	1.00
529.1	658.0	2.72	1.73	0.94
547.1	640.0	2.03	1.10	0.43
567.1	620.0	1.67	0.83	0.25
587.1	600.0	1.46	0.78	0.40
607.1	580.0	1.66	0.79	0.34
625.1	562.0	1.61	0.70	0.20
645.1	542.0	1.90	0.96	0.33
665.1	522.0	2.43	1.57	0.87
683.1	504.0	2.23	1.34	0.73
705.1	482.0	1.51	0.69	0.29
755.1	432.0	1.32	0.53	0.21
805.1	382.0	1.20	0.47	0.20
850.1	337.0	1.57	0.68	0.32
900.1	287.0	1.82	0.87	0.39
950.1	237.0	2.71	1.55	0.73
995.1	192.0	3.37	2.09	1.10

Frequency Mixer

LAVI-ED17046/1

Typical Performance Data

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=130.1MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=30.1MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=225.1MHz (dB)
		@LO (dBm)			@LO (dBm)			@LO (dBm)
		+17			+17			+17
84.0	46.1	8.69	30.0	60.1	13.29	190.0	35.1	13.89
81.0	49.1	8.56	50.0	80.1	10.56	186.0	39.1	13.05
78.0	52.1	8.43	80.0	110.1	8.75	182.0	43.1	12.45
74.0	56.1	8.31	110.0	140.1	7.98	177.0	48.1	11.95
71.0	59.1	8.23	140.0	170.1	7.78	173.0	52.1	11.65
67.0	63.1	8.16	170.0	200.1	7.39	168.0	57.1	11.35
64.0	66.1	8.13	200.0	230.1	6.91	164.0	61.1	11.12
60.0	70.1	8.01	220.0	250.1	6.69	159.0	66.1	10.81
57.0	73.1	8.05	250.0	280.1	6.42	155.0	70.1	10.60
53.0	77.1	8.16	280.0	310.1	6.34	150.0	75.1	10.38
50.0	80.1	8.17	310.0	340.1	6.31	146.0	79.1	10.18
46.0	84.1	8.19	340.0	370.1	6.27	141.0	84.1	9.88
43.0	87.1	8.23	370.0	400.1	6.30	137.0	88.1	9.68
39.0	91.1	8.35	400.0	430.1	6.38	132.0	93.1	9.42
36.0	94.1	8.48	420.0	450.1	6.48	128.0	97.1	9.23
32.0	98.1	8.72	450.0	480.1	6.41	123.0	102.1	8.99
29.0	101.1	8.98	480.0	510.1	6.50	119.0	106.1	8.78
25.0	105.1	9.45	510.0	540.1	6.51	114.0	111.1	8.58
22.0	108.1	9.94	540.0	570.1	6.53	110.0	115.1	8.36
65.0	195.1	6.37	620.0	650.1	6.59	96.0	129.1	8.02
120.0	250.1	6.36	650.0	680.1	6.60	92.0	133.1	7.94
170.0	300.1	6.71	680.0	710.1	6.57	87.0	138.1	7.85
225.0	355.1	6.28	710.0	740.1	6.63	83.0	142.1	7.79
275.0	405.1	6.23	740.0	770.1	6.63	78.0	147.1	7.76
330.0	460.1	6.35	770.0	800.1	6.65	74.0	151.1	7.75
380.0	510.1	6.34	790.0	820.1	6.63	69.0	156.1	7.72
435.0	565.1	6.49	820.0	850.1	6.70	65.0	160.1	7.71
485.0	615.1	6.51	850.0	880.1	6.77	60.0	165.1	7.64
540.0	670.1	6.51	880.0	910.1	6.73	56.0	169.1	7.69
590.0	720.1	6.49	910.0	940.1	6.78	51.0	174.1	7.78
645.0	775.1	6.48	940.0	970.1	6.83	47.0	178.1	7.90
695.0	825.1	6.45	960.0	990.1	6.83	42.0	183.1	8.01
750.0	880.1	6.46	990.0	1020.1	6.84	38.0	187.1	8.19
800.0	930.1	6.46	1020.0	1050.1	6.91	33.0	192.1	8.57
855.0	985.1	6.58	1050.0	1080.1	6.99	29.0	196.1	8.96
905.0	1035.1	6.60	1080.0	1110.1	6.94	24.0	201.1	9.66
960.0	1090.1	6.68	1110.0	1140.1	7.05	20.0	205.1	10.48
1010.0	1140.1	6.72	1140.0	1170.1	7.11	15.0	210.1	12.13



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IF/RF MICROWAVE COMPONENTS

REV. X1
LAVI-ED17046/1
8/1/2014
Page 2 of 5

Frequency Mixer

LAVI-ED17046/1

Typical Performance Data

LO (MHz)	LO-RF ISOLATION (dB)			LO-IF ISOLATION (dB)		
	@LO (dBm)			@LO (dBm)		
	+14	+17	+20	+14	+17	+20
187.0	51.70	51.55	51.45	41.50	42.25	42.88
232.0	53.05	53.03	53.03	43.15	43.73	44.31
282.0	54.51	54.55	54.53	44.04	44.39	44.61
332.0	55.82	55.83	55.84	46.28	46.53	46.73
377.0	56.23	56.10	56.08	47.88	47.87	47.90
427.0	57.75	57.55	57.39	50.47	50.22	50.08
477.0	58.16	57.92	57.73	49.14	48.80	48.49
502.0	58.67	58.36	58.21	48.64	48.27	47.87
520.0	58.61	58.35	58.19	48.34	48.06	47.73
540.0	58.55	58.30	58.14	47.81	47.50	47.10
560.0	58.70	58.40	58.27	47.47	47.09	46.75
578.0	59.07	58.90	58.80	47.15	46.74	46.33
598.0	59.07	58.75	58.55	46.94	46.55	46.21
618.0	59.04	58.75	58.51	46.70	46.34	45.95
638.0	59.21	58.81	58.51	46.62	46.23	45.95
656.0	59.41	59.02	58.70	46.55	46.22	45.83
676.0	59.66	59.24	58.94	46.68	46.18	45.79
696.0	59.74	59.27	58.94	46.33	45.89	45.44
714.0	59.96	59.50	59.18	46.09	45.65	45.27
734.0	60.70	60.16	59.65	46.39	45.96	45.53
754.0	60.89	60.42	59.94	46.92	46.43	45.94
774.0	60.87	60.41	59.93	47.29	46.80	46.22
792.0	60.56	60.16	59.74	47.30	46.65	46.07
812.0	60.38	60.04	59.75	46.62	46.02	45.44
832.0	60.20	59.92	59.70	46.00	45.31	44.74
850.0	59.91	59.76	59.68	45.43	44.82	44.31
870.0	59.77	59.57	59.55	45.36	44.75	44.36
890.0	59.69	59.45	59.36	46.06	45.53	45.08
910.0	59.86	59.50	59.31	46.51	46.00	45.50
928.0	59.97	59.53	59.20	47.03	46.47	45.93
948.0	60.11	59.59	59.20	47.18	46.68	46.15
968.0	60.25	59.67	59.16	47.33	46.89	46.31
986.0	60.64	60.03	59.53	47.59	47.17	46.61
1006.0	60.83	60.16	59.57	47.82	47.39	46.82
1026.0	60.99	60.30	59.66	48.05	47.54	46.97
1046.0	61.31	60.64	60.02	47.89	47.49	46.98
1064.0	61.65	61.00	60.40	47.93	47.60	47.13
1084.0	62.19	61.55	60.89	47.99	47.69	47.37
1127.0	62.32	61.71	61.21	48.07	47.85	47.55
1172.0	63.90	63.34	62.91	47.89	47.66	47.46

RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB)		
		@LO (dBm)		
		+14	+17	+20
10.1	1177.0	40.18	40.44	40.52
55.1	1132.0	33.75	34.41	34.57
101.1	1086.0	32.67	33.38	33.64
121.1	1066.0	31.97	32.55	32.82
139.1	1048.0	31.92	32.51	32.81
159.1	1028.0	32.51	33.07	33.37
179.1	1008.0	34.70	35.33	35.71
199.1	988.0	37.26	37.85	38.09
225.1	962.0	40.96	41.58	41.57
237.1	950.0	41.79	42.43	42.18
257.1	930.0	43.16	43.69	42.78
275.1	912.0	44.61	45.13	44.46
295.1	892.0	44.21	44.64	43.73
315.1	872.0	45.06	46.09	46.01
335.1	852.0	42.72	42.99	42.37
353.1	834.0	42.47	42.79	42.79
373.1	814.0	40.47	40.43	40.07
393.1	794.0	40.23	40.52	40.43
411.1	776.0	40.13	40.25	40.13
431.1	756.0	40.27	40.37	40.15
451.1	736.0	41.34	41.43	41.30
471.1	716.0	41.29	40.90	40.35
489.1	698.0	42.06	42.11	42.17
509.1	678.0	38.63	38.01	37.46
529.1	658.0	37.00	36.94	37.06
547.1	640.0	36.28	36.01	35.32
567.1	620.0	39.15	39.78	40.32
587.1	600.0	40.93	40.97	40.59
607.1	580.0	40.03	40.50	40.67
625.1	562.0	38.57	38.53	38.13
645.1	542.0	40.63	41.06	41.00
665.1	522.0	45.75	47.57	48.43
683.1	504.0	52.14	51.98	50.99
705.1	482.0	44.37	43.38	42.92
755.1	432.0	43.78	43.35	43.09
805.1	382.0	42.17	41.85	42.01
850.1	337.0	39.89	39.35	38.98
900.1	287.0	38.85	38.18	37.58
950.1	237.0	36.88	35.38	33.67
995.1	192.0	35.12	34.25	32.64

Frequency Mixer

LAVI-ED17046/1

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	RF VSWR (:1)			LO (MHz)	LO VSWR (:1)			IF (OUT) (MHz)	IF VSWR @LO=1157.1MHz (:1)		
		@LO (dBm)				@LO (dBm)				@LO (dBm)		
		+14	+17	+20		+14	+17	+20		+14	+17	+20
10.1	1177.0	1.57	1.66	1.84	187.0	4.82	4.82	4.82	50.1	2.17	2.26	2.34
55.1	1132.0	1.49	1.64	1.79	232.0	5.38	5.38	5.37	80.1	1.74	1.86	2.00
101.1	1086.0	1.46	1.60	1.74	282.0	6.33	6.32	6.31	100.1	1.61	1.74	1.88
121.1	1066.0	1.46	1.59	1.72	332.0	7.35	7.34	7.32	120.1	1.55	1.69	1.84
139.1	1048.0	1.44	1.56	1.70	377.0	7.94	7.90	7.85	160.1	1.62	1.77	1.92
159.1	1028.0	1.44	1.56	1.68	427.0	7.81	7.76	7.69	200.1	1.58	1.73	1.88
179.1	1008.0	1.38	1.49	1.61	477.0	7.07	7.03	6.97	230.1	1.51	1.65	1.79
199.1	988.0	1.40	1.50	1.62	502.0	6.58	6.54	6.48	270.1	1.40	1.53	1.66
225.1	962.0	1.36	1.45	1.55	520.0	6.26	6.21	6.15	310.1	1.34	1.46	1.58
237.1	950.0	1.39	1.47	1.57	540.0	5.91	5.86	5.81	350.1	1.30	1.40	1.51
257.1	930.0	1.36	1.43	1.52	560.0	5.56	5.52	5.48	390.1	1.26	1.34	1.43
275.1	912.0	1.37	1.43	1.51	578.0	5.28	5.25	5.20	430.1	1.27	1.33	1.40
295.1	892.0	1.37	1.42	1.50	598.0	4.99	4.96	4.91	460.1	1.28	1.30	1.35
315.1	872.0	1.41	1.45	1.51	618.0	4.72	4.68	4.63	500.1	1.32	1.31	1.33
335.1	852.0	1.40	1.44	1.49	638.0	4.46	4.43	4.39	540.1	1.34	1.31	1.30
353.1	834.0	1.43	1.45	1.50	656.0	4.24	4.21	4.18	580.1	1.41	1.34	1.30
373.1	814.0	1.42	1.44	1.48	676.0	4.03	4.00	3.97	620.1	1.46	1.38	1.33
393.1	794.0	1.53	1.54	1.56	696.0	3.82	3.80	3.76	650.1	1.53	1.44	1.38
411.1	776.0	1.51	1.50	1.52	714.0	3.65	3.62	3.59	690.1	1.65	1.54	1.46
431.1	756.0	1.59	1.57	1.57	734.0	3.46	3.44	3.40	730.1	1.71	1.60	1.51
451.1	736.0	1.64	1.62	1.62	754.0	3.28	3.26	3.22	770.1	1.84	1.72	1.61
471.1	716.0	1.73	1.70	1.68	774.0	3.11	3.09	3.06	810.1	1.90	1.76	1.66
489.1	698.0	1.77	1.74	1.72	792.0	2.97	2.95	2.92	850.1	1.97	1.83	1.72
509.1	678.0	1.82	1.78	1.76	812.0	2.82	2.80	2.77	880.1	2.02	1.88	1.77
529.1	658.0	1.83	1.78	1.76	832.0	2.67	2.65	2.63	920.1	2.10	1.96	1.84
547.1	640.0	1.95	1.90	1.87	850.0	2.54	2.53	2.51	960.1	2.22	2.07	1.95
567.1	620.0	2.09	2.06	2.04	870.0	2.42	2.40	2.38	1000.1	2.28	2.13	2.00
587.1	600.0	2.14	2.21	2.30	890.0	2.30	2.29	2.27	1040.1	2.32	2.16	2.03
607.1	580.0	1.45	1.39	1.36	910.0	2.19	2.18	2.16	1070.1	2.27	2.12	1.99
625.1	562.0	1.70	1.63	1.57	928.0	2.10	2.09	2.08	1110.1	2.27	2.12	1.99
645.1	542.0	1.87	1.79	1.72	948.0	2.01	2.01	2.00	1150.1	2.33	2.19	2.06
665.1	522.0	1.87	1.78	1.72	968.0	1.95	1.95	1.94	1190.1	2.34	2.19	2.06
683.1	504.0	1.94	1.85	1.78	986.0	1.91	1.91	1.91	1230.1	2.34	2.19	2.06
705.1	482.0	1.99	1.89	1.81	1006.0	1.88	1.89	1.90	1270.1	2.36	2.21	2.09
755.1	432.0	2.13	2.03	1.95	1026.0	1.89	1.90	1.92	1300.1	2.22	2.08	1.95
805.1	382.0	2.22	2.11	2.02	1046.0	1.94	1.95	1.97	1340.1	2.19	2.05	1.93
850.1	337.0	2.20	2.09	2.00	1064.0	2.00	2.02	2.04	1380.1	2.15	2.01	1.89
900.1	287.0	2.13	2.00	1.90	1084.0	2.10	2.12	2.15	1420.1	2.09	1.96	1.84
950.1	237.0	2.25	2.09	1.96	1127.0	2.43	2.46	2.50	1460.1	2.10	1.97	1.85
995.1	192.0	2.34	2.15	2.00	1172.0	2.91	2.95	3.00	1500.1	1.99	1.86	1.75

Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	---	---	23.4	29.2	26.4	23.3	34.4	24.8	40.3	46.9	52.8	60.4
1	---	25.2	---	41.4	13.4	35.8	23.9	42.2	37.3	49.1	47.3	52.0
2	85.5	63.5	48.7	57.6	46.1	61.6	52.4	68.0	58.7	67.4	66.0	73.0
3	115.4	75.6	66.0	73.6	62.8	74.2	69.6	89.9	85.6	87.1	93.7	95.5
4	115.5	97.2	88.6	92.3	81.8	94.7	91.0	97.6	99.6	98.2	92.8	101.9
5	114.0	99.9	92.4	102.0	93.6	101.1	96.1	101.4	103.3	101.9	101.8	102.2
6	115.7	104.8	105.8	104.3	101.6	104.9	101.8	102.6	102.4	102.9	100.1	103.7
7	114.2	104.5	103.1	104.8	104.7	101.6	102.3	103.6	103.8	102.3	101.6	101.2
8	116.3	104.7	104.4	104.4	103.0	102.1	104.9	102.8	103.8	101.3	102.4	101.6
9	115.9	102.6	106.2	105.0	103.1	101.8	102.7	103.1	102.5	103.0	103.1	102.9
10	115.3	105.1	104.3	103.6	104.2	101.5	100.2	102.6	102.1	103.2	101.4	102.5
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 127 MHz; 0 dBm.
LO IN: 1060 MHz; +17.00 dBm
IF OUT: 1187 MHz; -7.37 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	---	---	27.4	35.4	27.7	35.7	35.4	33.6	44.5	51.0	53.3	59.6
1	---	25.6	---	46.8	14.1	37.9	25.4	41.1	39.2	49.5	49.4	53.7
2	68.4	58.7	38.7	47.6	36.6	50.2	46.5	55.4	51.5	58.3	60.9	62.9
3	95.7	56.4	44.1	54.1	41.0	54.7	45.3	68.8	55.7	70.8	62.0	77.2
4	107.2	68.1	69.0	69.5	58.8	68.1	61.2	93.7	68.2	80.3	69.6	78.2
5	109.4	79.1	68.3	73.5	66.4	73.1	71.2	93.4	82.7	90.4	80.9	86.2
6	108.7	81.0	79.5	79.7	75.8	77.7	81.9	89.6	101.6	88.1	87.2	102.9
7	108.0	83.8	84.6	85.2	84.0	81.5	84.2	87.2	90.6	92.5	89.8	101.1
8	108.1	102.8	91.0	98.7	89.4	92.9	99.7	100.9	94.9	105.9	100.8	104.3
9	108.6	93.1	90.2	94.3	89.2	90.8	93.4	98.2	102.2	99.8	105.8	112.9
10	107.1	103.2	101.2	97.9	97.3	94.7	103.7	101.9	104.2	108.6	104.1	110.0
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 127 MHz; 10 dBm.
LO IN: 1060 MHz; +17.00 dBm
IF OUT: 1187 MHz; 2.76 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 represents the Harmonics level of the RF Input Signal to the mixer



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8/1/2014
Page 5 of 5