

LOG TRANSFER WITH FREQUENCY @ 25 °C
 MODEL: SDLVAC-0120-70M-YK OPTION : RKS-7LW4233-003 SERIAL No. :PL4362
 TESTED BY: H. HAHN
 DATE: 6/AUG/2008



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 ISO 9001:2000 CERTIFIED

Frequency

0.30 INTERCEPT (mV) 1602
 SLOPE (mV/dB) 27.84
 LIMITED IF OUTPUT (dBm)

0.55 INTERCEPT (mV) 1540
 SLOPE (mV/dB) 26.42
 LIMITED IF OUTPUT (dBm)

0.80 INTERCEPT (mV) 1444
 SLOPE (mV/dB) 24.71
 LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm) ± 0.96
 LINEARITY(-65 TO +5dBm) ± 1.02
 FREQUENCY FLATNESS ± 3.24

	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)
0.30 Measured Value (mV)	-199	-70	65	219	336	492	627	759	909	1045	1177	1336	1459	1620	1728	
0.30 Error (mV)	8	-2	-5	9	-13	3	0	-7	3	0	-8	12	-3	18	-14	
0.30 Measured Value (mV)	-16.52	-16.19	-16.09	-16.02	-15.98	-15.94	-15.92	-15.91	-15.90	-15.90	-15.91	-15.92	-15.92	-15.92	-15.93	
0.55 Measured Value (mV)	-162	-47	83	221	337	486	613	739	884	1010	1138	1288	1406	1556	1662	
0.55 Error (mV)	15	-2	-4	2	-14	2	-2	-8	5	-2	-6	12	-3	16	-11	
0.55 Measured Value (mV)	-16.41	-16.19	-16.07	-16.98	-15.91	-15.90	-15.93	-15.94	-15.94	-15.95	-15.95	-15.95	-15.95	-15.96	-15.99	
0.80 Measured Value (mV)	-137	-29	86	206	309	448	571	689	827	945	1068	1208	1321	1466	1566	
0.80 Error (mV)	25	9	1	-3	-24	-7	-8	-14	0	-5	-6	11	0	22	-2	
0.80 Measured Value (mV)	-16.27	-16.08	-16.01	-15.97	-15.91	-15.86	-15.90	-15.93	-15.94	-15.95	-15.95	-15.95	-15.95	-15.97	-16.02	

TSS 25C
 -65dBm MAX -65 dBm

OUTPUT VOLTAGE 25C
 2.7V MAX 2.24V

INPUT VSWR 2:1 MAX @ 25C 1.17:1

IF OUTPUT VSWR 2:1 MAX @ 25C 1.25:1

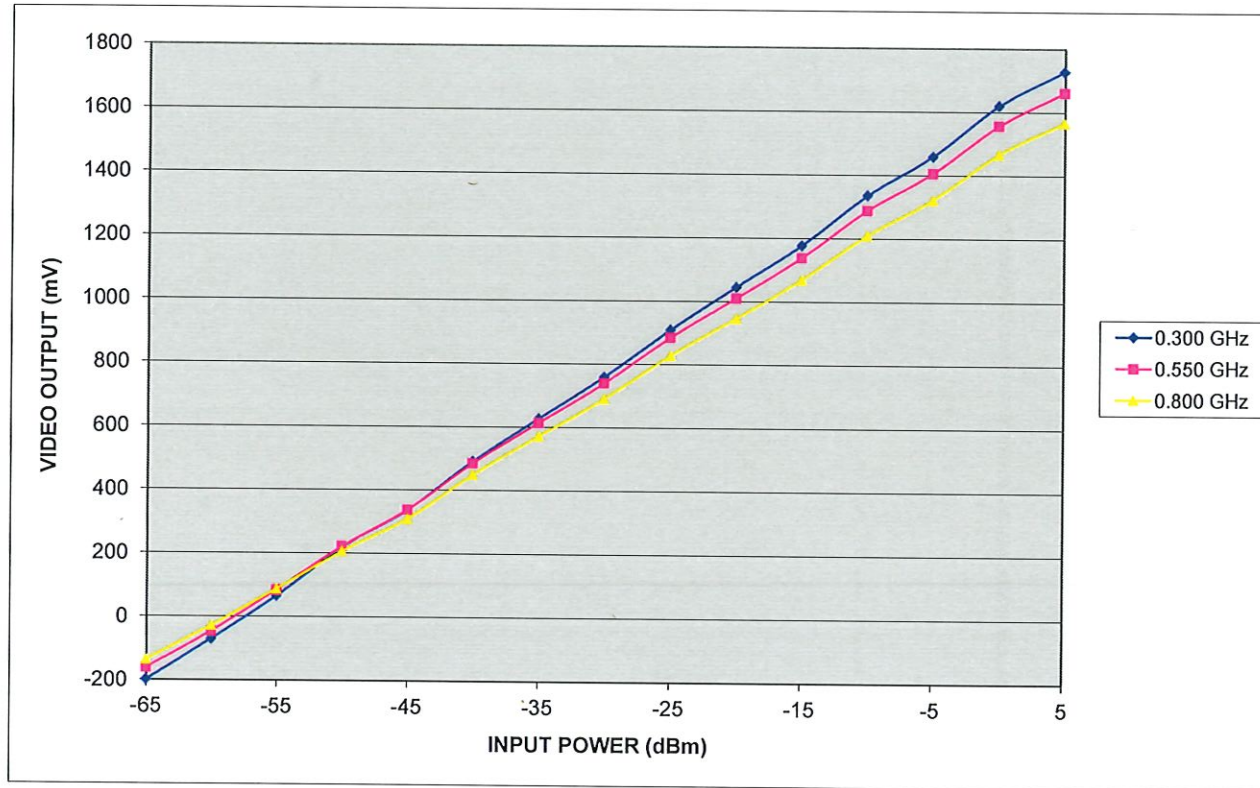
VIDEO RISE TIME 25 nS MAX @ 25C 16 nS

VIDEO FALL TIME 80 nS MAX @ 25C 38 nS

PROPAGATION DELAY 40 nS MAX @ 25C 12 nS

+5 V @ 70 mA MAX 29 mA

-5.2 V @ 200 mA MAX 115 mA



LIMITED IF OUTPUT MAX -15.86 dBm
 LIMITED IF OUTPUT MIN -16.52 dBm
 LIMITED IF FLATNESS ± 0.33 dBm

LOG TRANSFER WITH FREQUENCY @ +85 °C
 MODEL: SDLVAC-0120-70M-YK OPTION : RKS-7LW4233-003 SERIAL No. :PL4362
 TESTED BY: B. Baker
 DATE: 12/AUG/2008



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Frequency

0.30 INTERCEPT (mV) 1534
 SLOPE (mV/dB) 28.96
 LIMITED IF OUTPUT (dBm)

0.55 INTERCEPT (mV) 1468
 SLOPE (mV/dB) 27.41
 LIMITED IF OUTPUT (dBm)

0.80 INTERCEPT (mV) 1364
 SLOPE (mV/dB) 25.57
 LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm) ± 0.75
 LINEARITY(-65 TO +5dBm) ± 1.23
 FREQUENCY FLATNESS ± 3.57

TSS 25C
 -65dBm MAX -65 dBm

OUTPUT VOLTAGE 25C
 2.7V MAX 2.24

INPUT VSWR
 2:1 MAX @ 25C 1.18:1

IF OUTPUT VSWR
 2:1 MAX @ 25C 1.25:1

VIDEO RISE TIME
 25 nS MAX @ 25C 16 nS

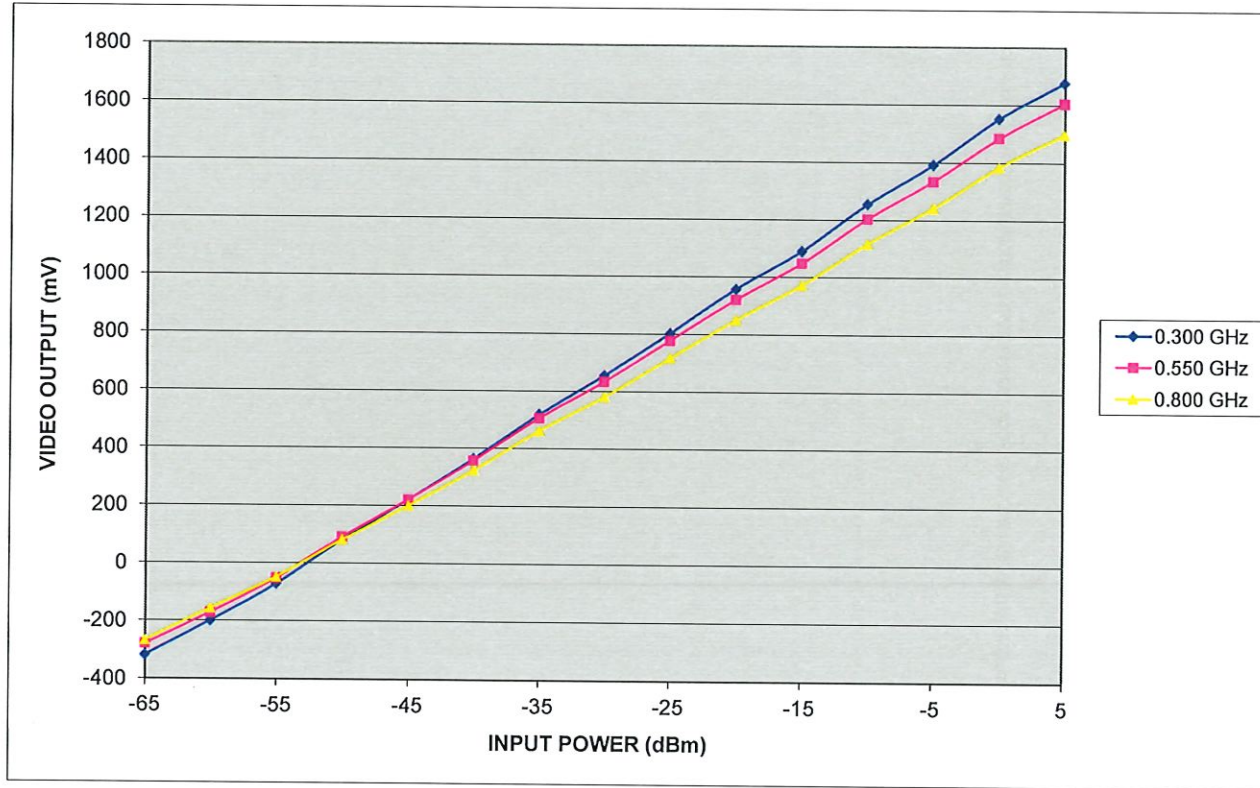
VIDEO FALL TIME
 80 nS MAX @ 25C 38 nS

PROPAGATION DELAY
 40 nS MAX @ 25C 12 nS

+5 V @ 70 mA MAX 13 mA

-5.2 V @ 200 mA MAX 127 mA

	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)
0.30 Measured Value (mV)	-319	-199	-71	83	221	364	519	656	803	958	1090	1254	1391	1552	1676	
0.30 Error (mV)	30	4	-13	-3	-10	-11	-1	-9	-7	3	-9	9	2	18	-3	
0.30 Limited IF Output (dBm)	-16.52	-15.93	-15.70	-15.68	-15.50	-15.45	-15.42	-15.40	-15.40	-15.40	-15.40	-15.41	-15.41	-15.41	-15.41	
0.55 Measured Value (mV)	-280	-172	-52	92	221	359	507	634	778	921	1048	1203	1334	1484	1605	
0.55 Error (mV)	34	5	-12	-5	-13	-12	-2	-11	-5	2	-8	9	3	16	0	
0.55 Limited IF Output (dBm)	-16.29	-15.88	-15.67	-15.64	-15.46	-15.42	-15.42	-15.43	-15.44	-15.44	-15.45	-15.45	-15.45	-15.46	-15.48	
0.80 Measured Value (mV)	-268	-157	-48	82	200	324	462	581	716	850	972	1116	1241	1383	1497	
0.80 Error (mV)	30	14	-6	-3	-13	-17	-7	-16	-8	-2	-9	8	5	19	5	
0.80 Limited IF Output (dBm)	-16.14	-15.75	-15.59	-15.50	-15.46	-15.46	-15.46	-15.46	-15.47	-15.47	-15.48	-15.48	-15.49	-15.50	-15.54	



LIMITED IF OUTPUT MAX -15.40 dBm
 LIMITED IF OUTPUT MIN -16.52 dBm
 LIMITED IF FLATNESS ± 0.56 dBm

LOG TRANSFER WITH FREQUENCY @ +95 °C
 MODEL: SDLVAC-0120-70M-YK OPTION : RKS-7LW4233-003 SERIAL No. :PL4362
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Frequency

0.30 INTERCEPT (mV) 1511
 SLOPE (mV/dB) 29.01
 LIMITED IF OUTPUT (dBm)

0.55 INTERCEPT (mV) 1444
 SLOPE (mV/dB) 27.45
 LIMITED IF OUTPUT (dBm)

0.80 INTERCEPT (mV) 1339
 SLOPE (mV/dB) 25.63
 LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm) ± 0.72
 LINEARITY(-65 TO +5dBm) ± 1.35
 FREQUENCY FLATNESS ± 3.62

TSS 25C
 -65dBm MAX -65 dBm

OUTPUT VOLTAGE 25C
 2.7V MAX 2.23

INPUT VSWR 2:1 MAX @ 25C 1.18:1

IF OUTPUT VSWR 2:1 MAX @ 25C 1.25:1

VIDEO RISE TIME 25 nS MAX @ 25C 16 nS

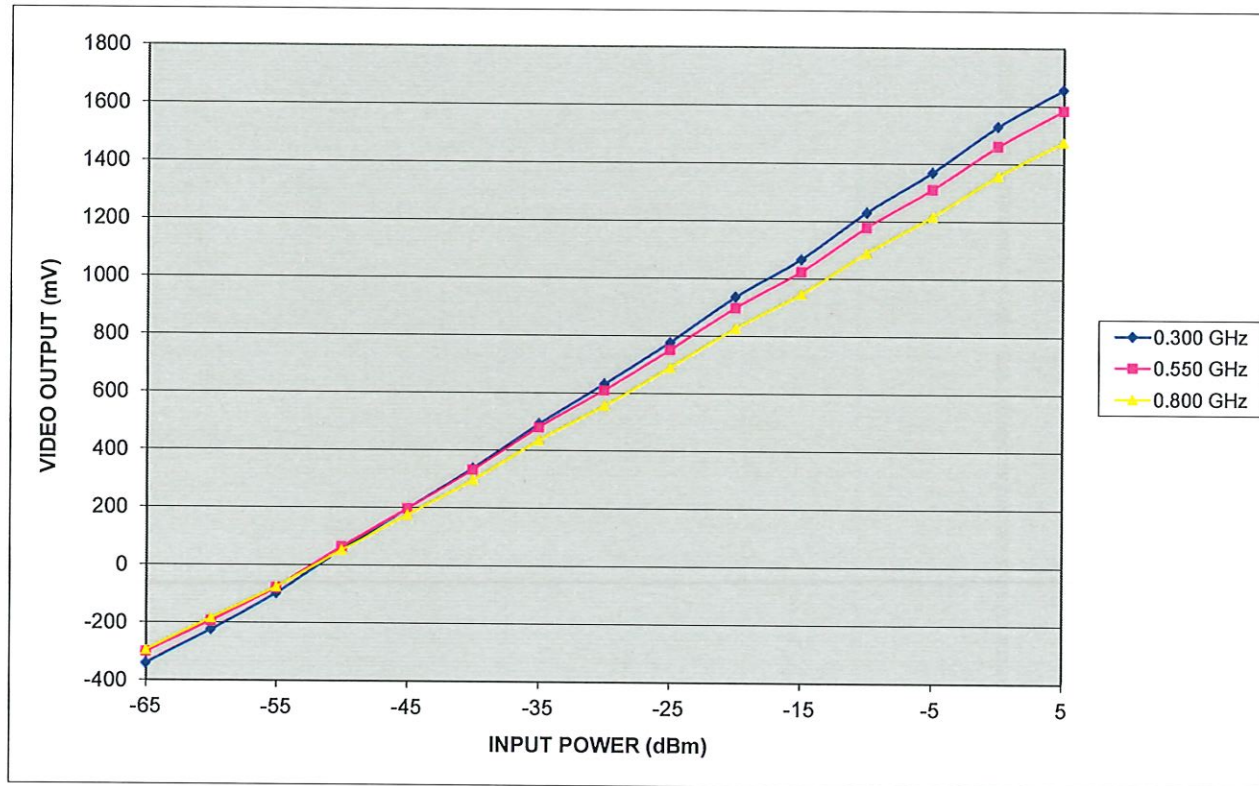
VIDEO FALL TIME 80 nS MAX @ 25C 38 nS

PROPERGATION DELAY 40 nS MAX @ 25C 12 nS

+5 V @ 70 mA MAX 13 mA

-5.2 V @ 200 mA MAX 127 mA

	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)
0.30 Measured Value (mV)	-340	-224	-97	55	196	338	492	632	777	935	1066	1230	1369	1529	1656	
0.30 Error (mV)	34	5	-13	-6	-10	-13	-3	-9	-9	4	-10	9	3	18	0	
0.30 Limited IF Output (dBm)	-16.62	-15.97	-15.71	-15.58	-15.60	-15.44	-15.41	-15.39	-15.39	-15.38	-15.39	-15.39	-15.40	-15.40	-15.40	
0.55 Measured Value (mV)	-303	-195	-78	64	196	332	480	610	751	898	1024	1178	1310	1461	1584	
0.55 Error (mV)	37	8	-13	-8	-13	-14	-3	-11	-7	3	-9	9	3	16	2	
0.55 Limited IF Output (dBm)	-16.35	-15.91	-15.68	-15.53	-15.45	-15.40	-15.40	-15.41	-15.41	-15.42	-15.42	-15.43	-15.43	-15.44	-15.46	
0.80 Measured Value (mV)	-296	-185	-76	52	175	296	435	556	688	825	945	1090	1216	1358	1475	
0.80 Error (mV)	31	14	-6	-5	-11	-18	-7	-15	-10	-1	-9	7	5	19	7	
0.80 Limited IF Output (dBm)	-16.22	-15.77	-15.58	-15.48	-15.44	-15.43	-15.43	-15.44	-15.44	-15.45	-15.45	-15.45	-15.46	-15.48	-15.51	



LIMITED IF OUTPUT MAX -15.38 dBm
 LIMITED IF OUTPUT MIN -16.62 dBm
 LIMITED IF FLATNESS ± 0.62 dBm

LOG TRANSFER WITH FREQUENCY @ -54 °C
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 DATE: 12/AUG/2008



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Frequency

0.30 INTERCEPT (mV) 1946
 SLOPE (mV/dB) 29.93
 LIMITED IF OUTPUT (dBm)

0.55 INTERCEPT (mV) 1881
 SLOPE (mV/dB) 28.68
 LIMITED IF OUTPUT (dBm)

0.80 INTERCEPT (mV) 1798
 SLOPE (mV/dB) 27.22
 LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm) ± 1.40
 LINEARITY(-65 TO +5dBm) ± 1.40
 FREQUENCY FLATNESS ± 3.28

TSS 25C
 -65dBm MAX -66 dBm

OUTPUT VOLTAGE 25C
 2.7V MAX 2.58

INPUT VSWR 2:1 MAX @ 25C 1.18:1

IF OUTPUT VSWR 2:1 MAX @ 25C 1.25:1

VIDEO RISE TIME 25 nS MAX @ 25C 16 nS

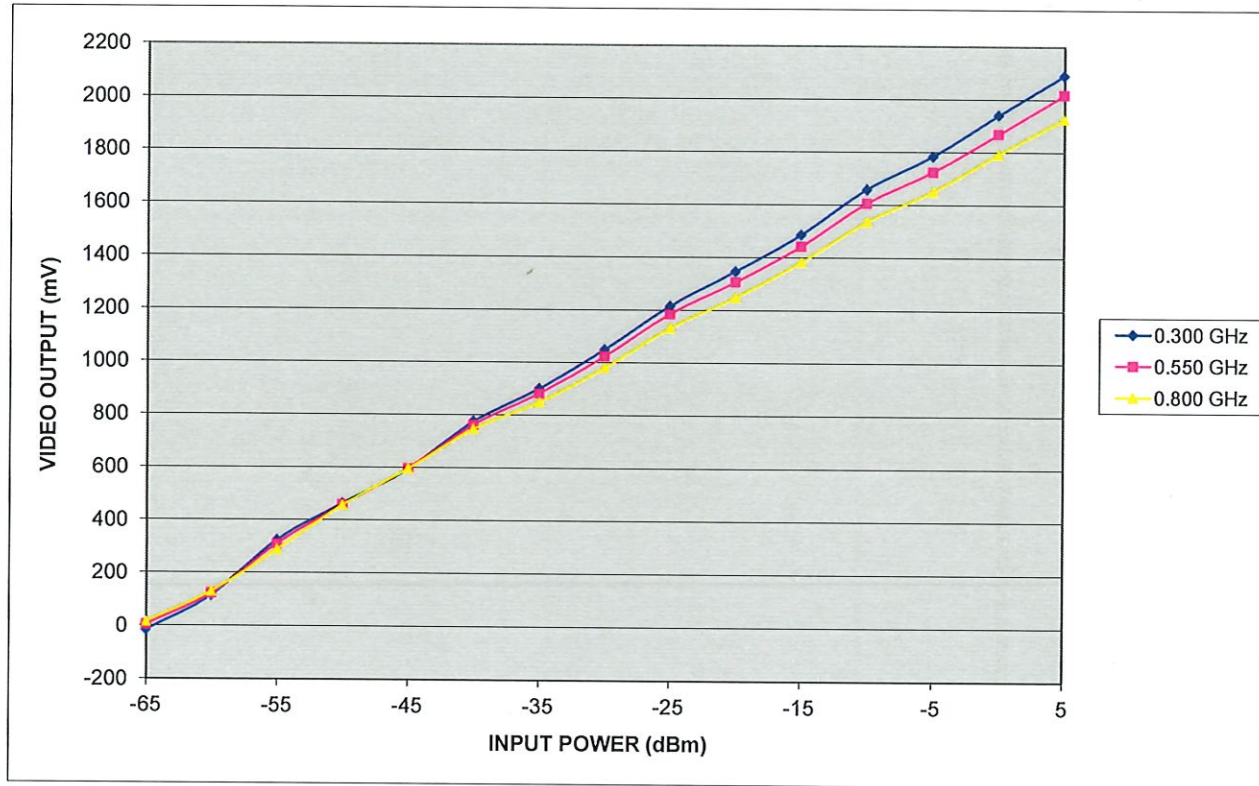
VIDEO FALL TIME 80 nS MAX @ 25C 38 nS

PROPERGATION DELAY 40 nS MAX @ 25C 12 nS

+5 V @ 70 mA MAX 15 mA

-5.2 V @ 200 mA MAX 123 mA

	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)
0.30 Measured Value (mV)	-16	115	325	463	594	776	901	1050	1215	1346	1486	1659	1784	1941	2090	Measured Value (mV)
0.30 Error (mV)	-17	-35	24	13	-5	27	2	1	17	-2	-11	12	-13	-6	-6	Error (mV)
0.30 Measured Value (mV)	-15.43	-15.44	-15.67	-15.66	-15.72	-15.79	-15.77	-15.75	-15.74	-15.76	-15.77	-15.78	-15.78	-15.78	-15.79	Measured Value (mV)
0.55 Measured Value (mV)	4	122	310	458	596	763	881	1023	1184	1305	1441	1606	1724	1869	2017	Measured Value (mV)
0.55 Error (mV)	-12	-38	7	12	6	30	5	3	20	-2	-9	12	-13	-12	-7	Error (mV)
0.55 Measured Value (mV)	-15.37	-15.38	-15.40	-15.48	-15.69	-15.60	-15.61	-15.60	-15.60	-15.62	-15.63	-15.63	-15.62	-15.62	-15.64	Measured Value (mV)
0.80 Measured Value (mV)	14	130	288	457	595	747	849	979	1130	1246	1381	1635	1650	1792	1926	Measured Value (mV)
0.80 Error (mV)	-15	-35	-13	20	22	38	4	-2	13	-7	-9	9	-12	-6	-8	Error (mV)
0.80 Measured Value (mV)	-15.34	-15.35	-15.37	-15.50	-15.56	-15.62	-15.62	-15.69	-15.68	-15.68	-15.67	-15.66	-15.66	-15.69	-15.62	Measured Value (mV)



LIMITED IF OUTPUT MAX -15.34 dBm
 LIMITED IF OUTPUT MIN -15.79 dBm
 LIMITED IF FLATNESS ± 0.22 dBm