

LOG TRANSFER WITH FREQUENCY @ +25 °C  
 MODEL: SDLVAC-0120-70M-YK OPTION : RKS-7LW4233-003 SERIAL No. :PL5370  
 TESTED BY: B. BAKER  
 DATE: 26/MARCH/2009



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 ISO 9001:2000 CERTIFIED

Frequency

0.30 INTERCEPT (mV) 1594  
 SLOPE (mV/dB) 27.51  
 LIMITED IF OUTPUT (dBm)

0.55 INTERCEPT (mV) 1531  
 SLOPE (mV/dB) 26.25  
 LIMITED IF OUTPUT (dBm)

0.80 INTERCEPT (mV) 1441  
 SLOPE (mV/dB) 24.74  
 LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm) ± 0.99  
 LINEARITY(-65 TO +5dBm) ± 0.99  
 FREQUENCY FLATNESS ± 3.08

	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)
0.30 Measured Value (mV)	-190	-60	78	228	343	501	629	762	908	1042	1171	1330	1451	1612	1720	Measured Value (mV)
0.30 Error (mV)	5	-3	-3	10	-13	8	-1	-6	2	-1	-10	11	-6	18	-11	Error (mV)
0.30 Limited IF Output (dBm)	-16.69	-16.31	-16.21	-16.15	-16.12	-16.08	-16.06	-16.06	-16.05	-16.06	-16.06	-16.07	-16.07	-16.08	-16.08	Measured Value (mV)
0.55 Measured Value (mV)	-164	-46	84	224	336	488	611	737	879	1005	1127	1280	1395	1546	1656	Measured Value (mV)
0.55 Error (mV)	11	-3	-4	5	-14	7	-1	-6	4	-1	-10	11	-5	14	-6	Error (mV)
0.55 Limited IF Output (dBm)	-16.63	-16.38	-16.27	-16.19	-16.13	-16.14	-16.16	-16.16	-16.16	-16.17	-16.18	-16.18	-16.17	-16.18	-16.20	Measured Value (mV)
0.80 Measured Value (mV)	-145	-35	81	201	303	450	571	689	823	943	1060	1204	1315	1460	1566	Measured Value (mV)
0.80 Error (mV)	22	9	0	-4	-25	-2	-5	-10	0	-4	-10	10	-3	19	1	Error (mV)
0.80 Limited IF Output (dBm)	-16.56	-16.35	-16.29	-16.25	-16.18	-16.14	-16.19	-16.21	-16.21	-16.22	-16.23	-16.22	-16.22	-16.23	-16.27	Measured Value (mV)

TSS 25C  
 -65dBm MAX -67dBm

OUTPUT VOLTAGE 25C  
 2.7V MAX 2.63 V

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

IF OUTPUT VSWR  
 2:1 MAX @ 25C 1.48:1

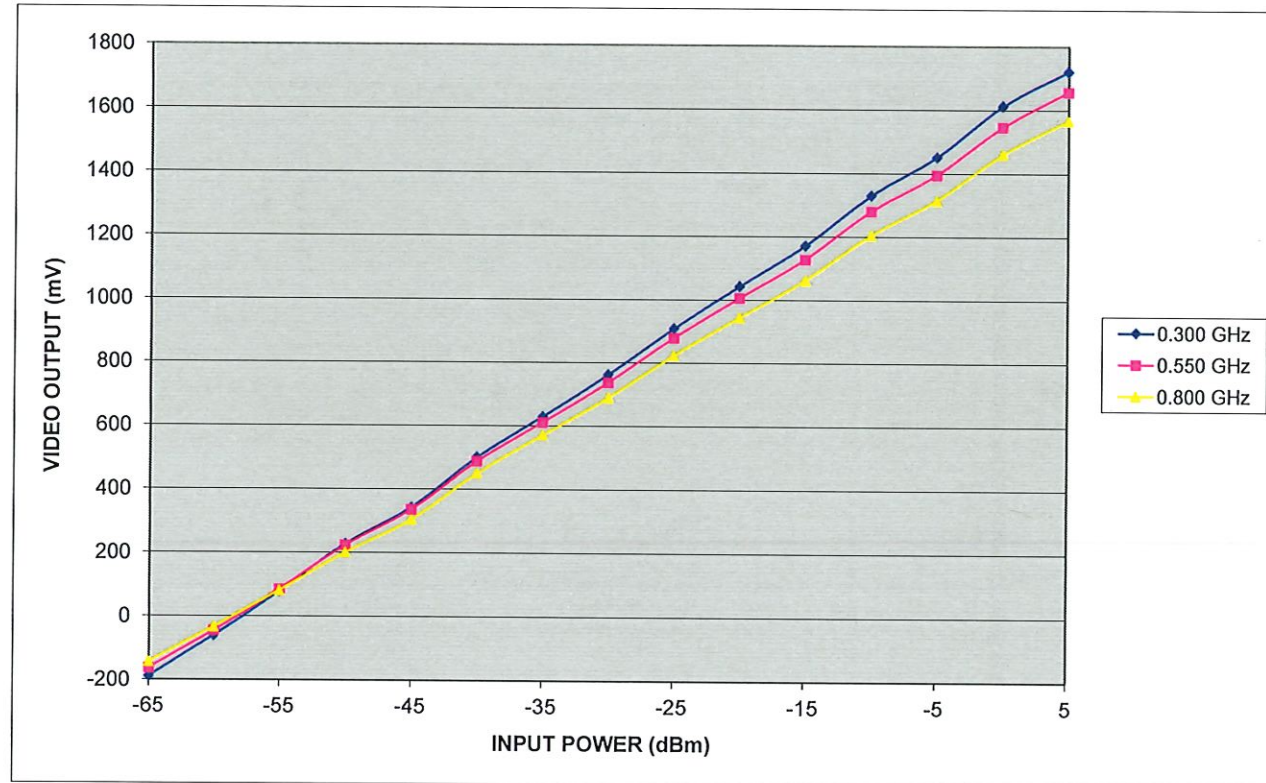
VIDEO RISE TIME  
 25 nS MAX @ 25C 24 nS

VIDEO FALL TIME  
 80 nS MAX @ 25C 46 nS

PROPAGATION DELAY  
 40 nS MAX @ 25C 34 nS

+5 V @ 70 mA MAX 16 mA

-5.2 V @ 200 mA MAX 120mA



LIMITED IF OUTPUT MAX -16.05 dBm  
 LIMITED IF OUTPUT MIN -16.69 dBm  
 LIMITED IF FLATNESS ± 0.32 dBm

LOG TRANSFER WITH FREQUENCY @ +85 °C  
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Frequency

0.30 INTERCEPT (mV)    1439  
 SLOPE (mV/dB)    27.45  
 LIMITED IF OUTPUT (dBm)

0.55 INTERCEPT (mV)    1378  
 SLOPE (mV/dB)    26.12  
 LIMITED IF OUTPUT (dBm)

0.80 INTERCEPT (mV)    1281  
 SLOPE (mV/dB)    24.47  
 LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm)    ± 0.78  
 LINEARITY(-65 TO +5dBm)    ± 1.18  
 FREQUENCY FLATNESS    ± 3.26

TSS    25C  
 -65dBm MAX    -67dBm

OUTPUT VOLTAGE    25C  
 2.7V MAX    2.63 V

INPUT VSWR  
 2:1 MAX @ 25C    1.17:1

IF OUTPUT VSWR  
 2:1 MAX @ 25C    1.48:1

VIDEO RISE TIME  
 25 nS MAX @ 25C    24 nS

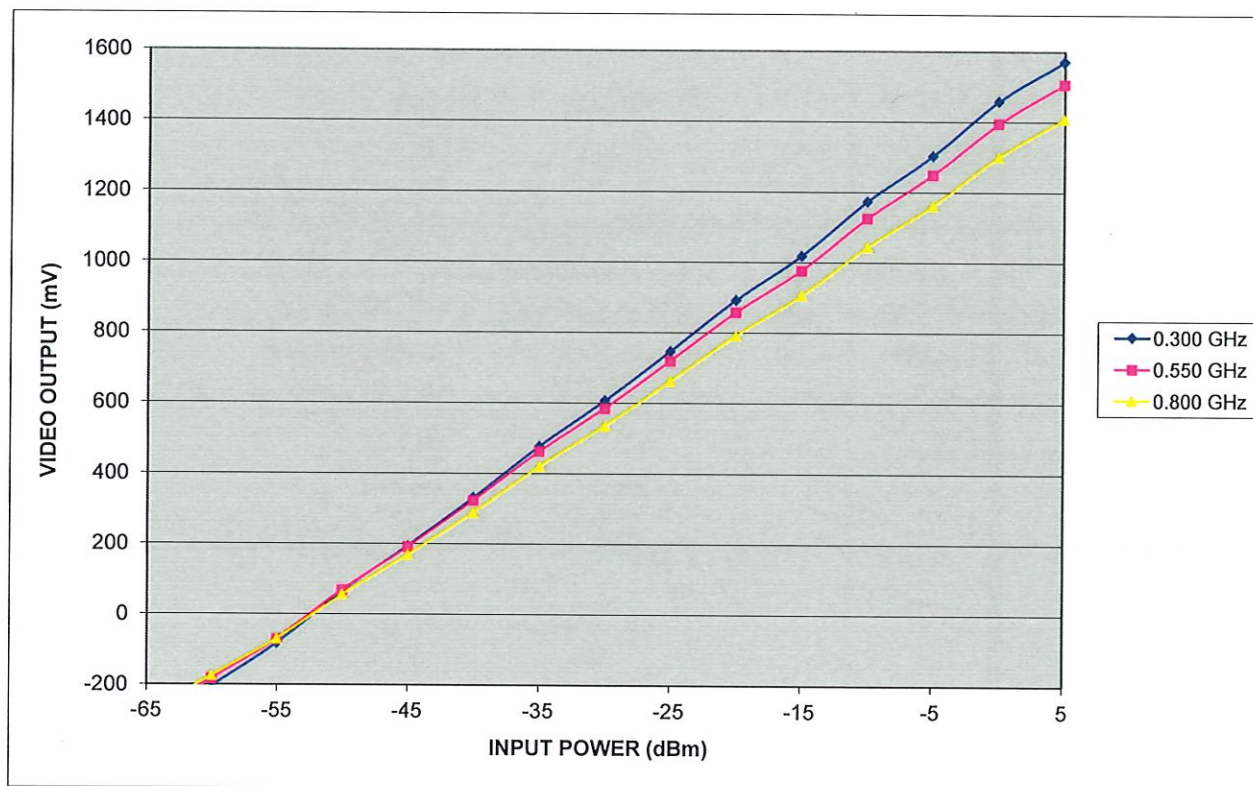
VIDEO FALL TIME  
 80 nS MAX @ 25C    46 nS

PROPERGATION DELAY  
 40 nS MAX @ 25C    34 nS

+5 V @ 70 mA MAX    16 mA

-5.2 V @ 200 mA MAX    120mA

	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)
0.30 Measured Value (mV)	-317	-204	-83	65	194	331	476	607	747	892	1018	1173	1303	1459	1571	Measured Value (mV)
0.30 Error (mV)	28	4	-12	-2	-10	-10	-2	-9	-6	2	-9	9	1	20	-5	Error (mV)
0.30 Limited IF Output (dBm)	-17.04	-16.40	-16.17	-16.06	-16.99	-16.95	-16.92	-16.91	-16.91	-16.91	-16.91	-15.92	-15.92	-16.92	-16.92	Limited IF Output (dBm)
0.55 Measured Value (mV)	-289	-185	-71	68	191	323	462	585	719	857	976	1125	1248	1395	1507	Measured Value (mV)
0.55 Error (mV)	31	5	-13	-4	-12	-10	-2	-9	-5	2	-9	9	2	17	-1	Error (mV)
0.55 Limited IF Output (dBm)	-16.88	-16.44	-16.23	-16.11	-16.04	-16.00	-15.99	-16.01	-16.01	-16.02	-16.03	-16.03	-16.03	-16.04	-16.06	Limited IF Output (dBm)
0.80 Measured Value (mV)	-283	-176	-71	55	168	288	419	534	661	791	904	1043	1161	1300	1408	Measured Value (mV)
0.80 Error (mV)	27	11	-6	-3	-12	-14	-6	-13	-8	-1	-10	7	3	19	4	Error (mV)
0.80 Limited IF Output (dBm)	-16.82	-16.39	-16.23	-16.14	-16.10	-16.08	-16.08	-16.09	-16.10	-16.11	-16.11	-16.11	-16.12	-16.13	-16.16	Limited IF Output (dBm)



LIMITED IF OUTPUT MAX    -15.91 dBm  
 LIMITED IF OUTPUT MIN    -17.04 dBm  
 LIMITED IF FLATNESS    ± 0.57 dBm

LOG TRANSFER WITH FREQUENCY @ +95 °C  
 MODEL: SDLVAC-0120-70M-YK    OPTION : RKS-7LW4233-003    SERIAL No. :PL5370  
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Frequency

0.30 INTERCEPT (mV)    1453  
 SLOPE (mV/dB)    27.34  
 LIMITED IF OUTPUT (dBm)

0.55 INTERCEPT (mV)    1388  
 SLOPE (mV/dB)    26.07  
 LIMITED IF OUTPUT (dBm)

0.80 INTERCEPT (mV)    1288  
 SLOPE (mV/dB)    24.44  
 LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm)    ± 0.80  
 LINEARITY(-65 TO +5dBm)    ± 1.13  
 FREQUENCY FLATNESS    ± 3.40

TSS    25C  
 -65dBm MAX    -67dBm

OUTPUT VOLTAGE    25C  
 2.7V MAX    2.63 V

INPUT VSWR  
 2:1 MAX @ 25C    1.17:1

IF OUTPUT VSWR  
 2:1 MAX @ 25C    1.48:1

VIDEO RISE TIME  
 25 nS MAX @ 25C    24 nS

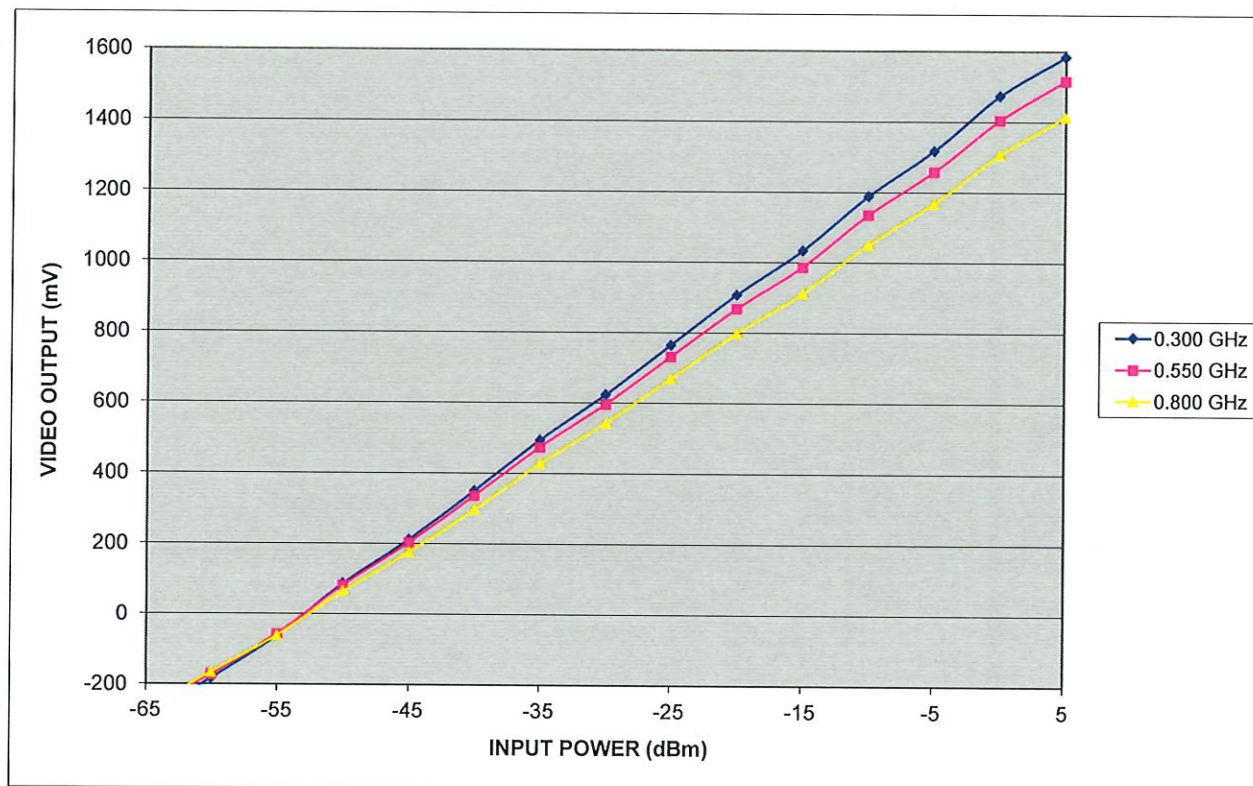
VIDEO FALL TIME  
 80 nS MAX @ 25C    46 nS

PROPERGATION DELAY  
 40 nS MAX @ 25C    34 nS

+5 V @ 70 mA MAX    16 mA

-5.2 V @ 200 mA MAX    120mA

	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)
0.30 Measured Value (mV)	-298	-183	-62	87	212	351	495	624	764	908	1034	1189	1318	1474	1584	Measured Value (mV)
0.30 Error (mV)	26	4	-12	1	-11	-8	-2	-9	-5	1	-9	9	1	21	-6	Error (mV)
0.30 Limited IF Output (dBm)	-16.97	-16.38	-16.17	-16.07	-16.01	-16.01	-16.97	-16.94	-16.94	-16.93	-16.93	-15.94	-15.94	-16.94	-16.94	Limited IF Output (dBm)
0.55 Measured Value (mV)	-277	-172	-58	82	203	336	474	596	732	868	987	1136	1259	1405	1517	Measured Value (mV)
0.55 Error (mV)	30	4	-12	-2	-12	-9	-2	-9	-5	2	-10	9	1	17	-2	Error (mV)
0.55 Limited IF Output (dBm)	-16.87	-16.44	-16.24	-16.13	-16.05	-16.01	-16.01	-16.03	-16.04	-16.04	-16.04	-16.04	-16.04	-16.04	-16.05	Limited IF Output (dBm)
0.80 Measured Value (mV)	-274	-167	-62	64	176	297	427	542	669	798	912	1051	1168	1308	1414	Measured Value (mV)
0.80 Error (mV)	26	11	-6	-2	-12	-14	-5	-13	-8	-1	-10	7	2	19	4	Error (mV)
0.80 Limited IF Output (dBm)	-16.81	-16.39	-16.23	-16.15	-16.11	-16.09	-16.09	-16.11	-16.11	-16.12	-16.12	-16.12	-16.12	-16.14	-16.17	Limited IF Output (dBm)



LIMITED IF OUTPUT MAX    -15.93 dBm  
 LIMITED IF OUTPUT MIN    -16.97 dBm  
 LIMITED IF FLATNESS    ± 0.52 dBm

LOG TRANSFER WITH FREQUENCY @ -55 °C  
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Frequency

	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)	
0.30 INTERCEPT (mV)	1875																Measured Value (mV)
SLOPE (mV/dB)	28.7																Error (mV)
LIMITED IF OUTPUT (dBm)																	Measured Value (mV)
0.55 INTERCEPT (mV)	1814																Measured Value (mV)
SLOPE (mV/dB)	27.5																Error (mV)
LIMITED IF OUTPUT (dBm)																	Measured Value (mV)
0.80 INTERCEPT (mV)	1726																Measured Value (mV)
SLOPE (mV/dB)	25.77																Error (mV)
LIMITED IF OUTPUT (dBm)																	Measured Value (mV)
LINEARITY(-60 TO 0dBm)	± 1.41																
LINEARITY(-65 TO +5dBm)	± 1.41																
FREQUENCY FLATNESS	± 3.10																

TSS 25C  
 -65dBm MAX -67dBm

OUTPUT VOLTAGE 25C  
 2.7V MAX 2.63 V

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

IF OUTPUT VSWR  
 2:1 MAX @ 25C 1.48:1

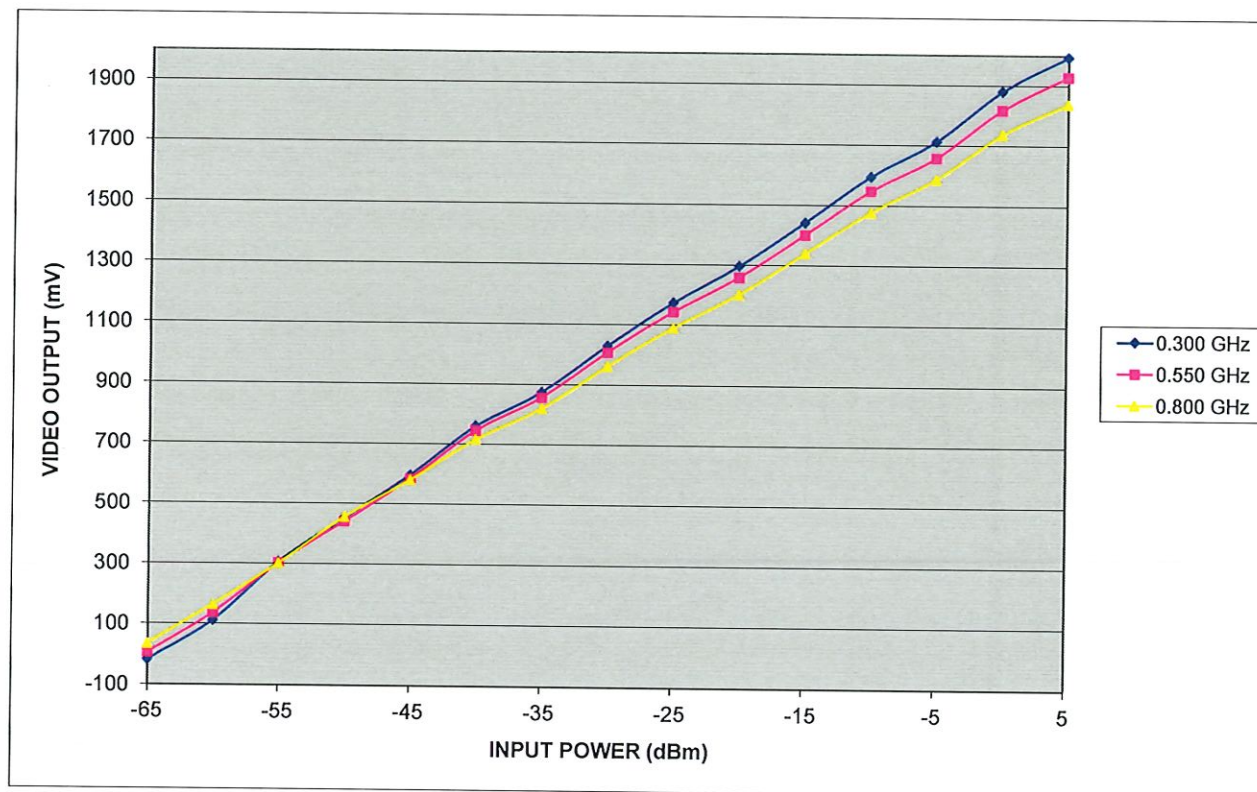
VIDEO RISE TIME  
 25 nS MAX @ 25C 24 nS

VIDEO FALL TIME  
 80 nS MAX @ 25C 46 nS

PROPAGATION DELAY  
 40 nS MAX @ 25C 34 nS

+5 V @ 70 mA MAX 16 mA

-5.2 V @ 200 mA MAX 120mA



LIMITED IF OUTPUT MAX -16.04 dBm  
 LIMITED IF OUTPUT MIN -16.28 dBm  
 LIMITED IF FLATNESS ± 0.12 dBm