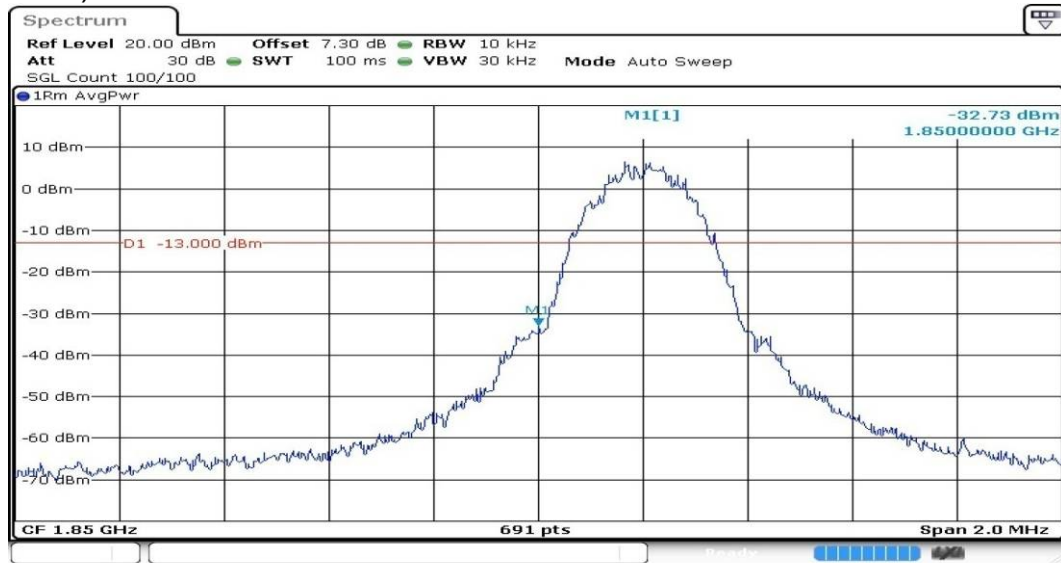
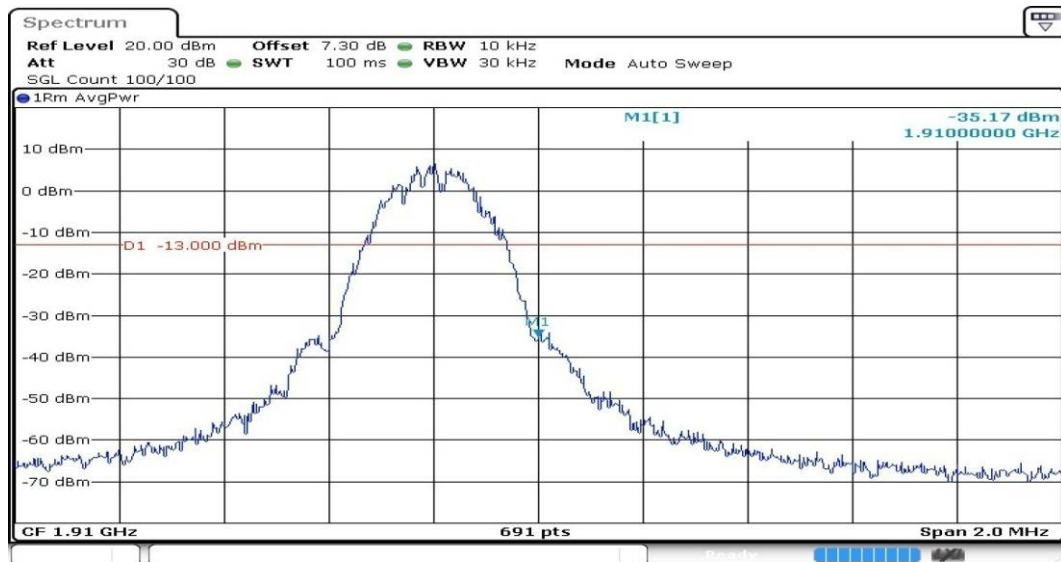


EDGE (8PSK) MODE:



Date: 12.DEC.2020 12:29:37

Channel 512



Date: 12.DEC.2020 12:31:46

Channel 810

6. Frequency Stability

GSM850

GSM MODE:

Temperature(°C)	Test Result (ppm)@NV		
	Channel 128	Channel 189	Channel 251
-10	-0.002	0.007	0.000
0	-0.009	0.009	0.017
+10	-0.009	0.002	0.013
+20	0.000	0.000	0.000
+30	-0.013	0.013	0.002
+40	-0.008	0.009	-0.005
+50	0.006	0.006	0.012
+55	0.003	0.004	0.007
Voltage	Test Result (ppm)@NT		
	Channel 128	Channel 189	Channel 251
LV	-0.004	0.007	0.008
HV	-0.003	0.019	0.007

GPRS MODE:

Temperature(°C)	Test Result (ppm)@NV		
	Channel 128	Channel 189	Channel 251
-10	-0.010	-0.003	-0.016
0	-0.002	0.005	-0.019
+10	-0.013	0.010	-0.018
+20	0.000	0.000	0.000
+30	-0.005	0.002	-0.018
+40	-0.015	0.016	-0.012
+50	-0.019	-0.009	-0.021
+55	-0.003	-0.006	-0.009
Voltage	Test Result (ppm)@NT		
	Channel 128	Channel 189	Channel 251
LV	-0.012	0.002	-0.024
HV	-0.006	0.001	-0.016

EDGE (8PSK) MODE:

Temperature(°C)	Test Result (ppm)@NV		
	Channel 128	Channel 189	Channel 251
-10	-0.002	0.001	0.004
0	0.000	0.001	0.000
+10	-0.001	0.003	0.004
+20	0.000	0.000	0.000
+30	0.002	0.002	0.006
+40	0.005	0.002	0.007
+50	-0.001	0.005	0.005
+55	0.005	0.003	0.007
Voltage	Test Result (ppm)@NT		
	Channel 128	Channel 189	Channel 251
LV	0.001	0.002	0.003
HV	0.000	0.000	0.004

PCS1900

GSM MODE:

Temperature(°C)	Test Result (ppm)@NV		
	Channel 512	Channel 661	Channel 810
-10	0.002	0.010	-0.009
0	0.001	0.010	-0.006
+10	-0.001	0.012	0.004
+20	0.000	0.000	0.000
+30	-0.004	0.008	-0.006
+40	-0.001	0.000	0.003
+50	0.001	0.018	0.003
+55	0.003	0.009	0.001
Voltage	Test Result (ppm)@NT		
	Channel 512	Channel 661	Channel 810
LV	-0.004	0.007	-0.004
HV	-0.007	0.016	0.003

GPRS MODE:

Temperature(°C)	Test Result (ppm)@NV		
	Channel 512	Channel 661	Channel 810
-10	-0.007	0.004	-0.002
0	0.002	0.001	-0.005
+10	-0.003	0.004	-0.001
+20	0.000	0.000	0.000
+30	-0.009	0.002	0.002
+40	-0.004	0.006	-0.001
+50	-0.009	0.000	-0.001
+55	-0.003	0.007	0.003
Voltage	Test Result (ppm)@NT		
	Channel 512	Channel 661	Channel 810
LV	-0.006	0.007	-0.002
HV	-0.007	0.003	0.000

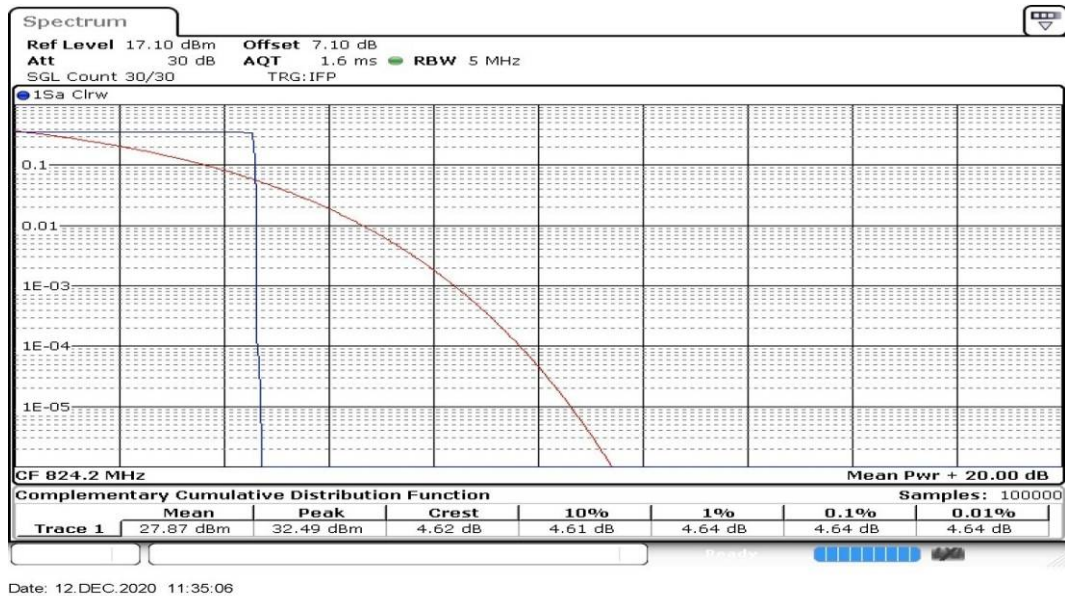
EDGE (8PSK) MODE:

Temperature(°C)	Test Result (ppm)@NV		
	Channel 512	Channel 661	Channel 810
-10	-0.002	-0.004	0.006
0	0.006	0.001	-0.001
+10	-0.002	0.001	0.001
+20	0.000	0.000	0.000
+30	-0.005	-0.003	-0.004
+40	-0.001	0.001	0.000
+50	-0.005	0.001	0.003
+55	0.004	0.006	0.003
Voltage	Test Result (ppm)@NT		
	Channel 512	Channel 661	Channel 810
LV	0.006	0.004	0.001
HV	0.006	0.006	0.002

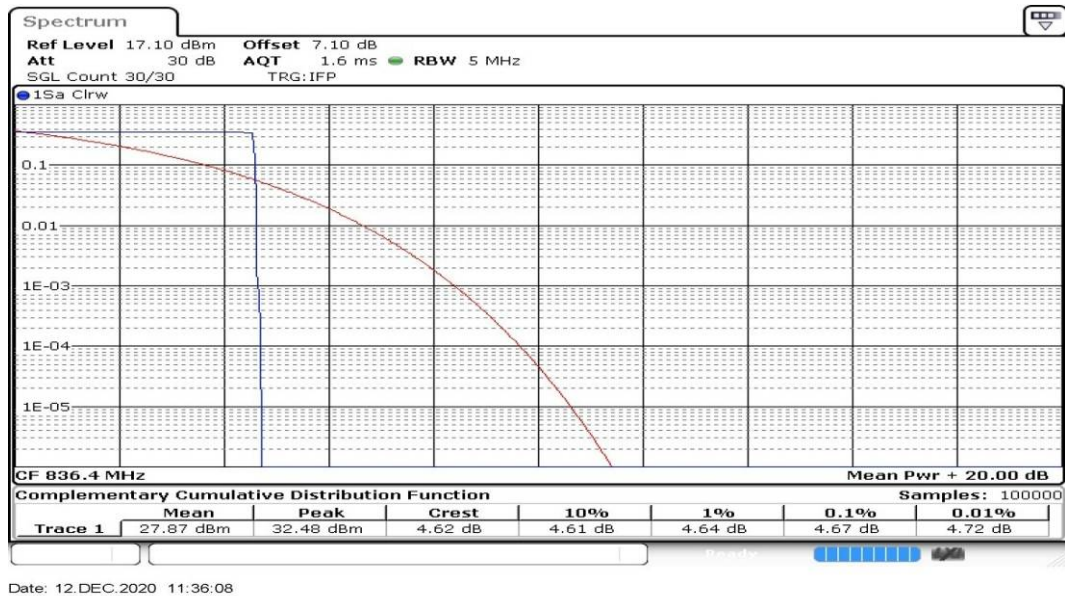
7. Peak-Average Ratio

GSM850

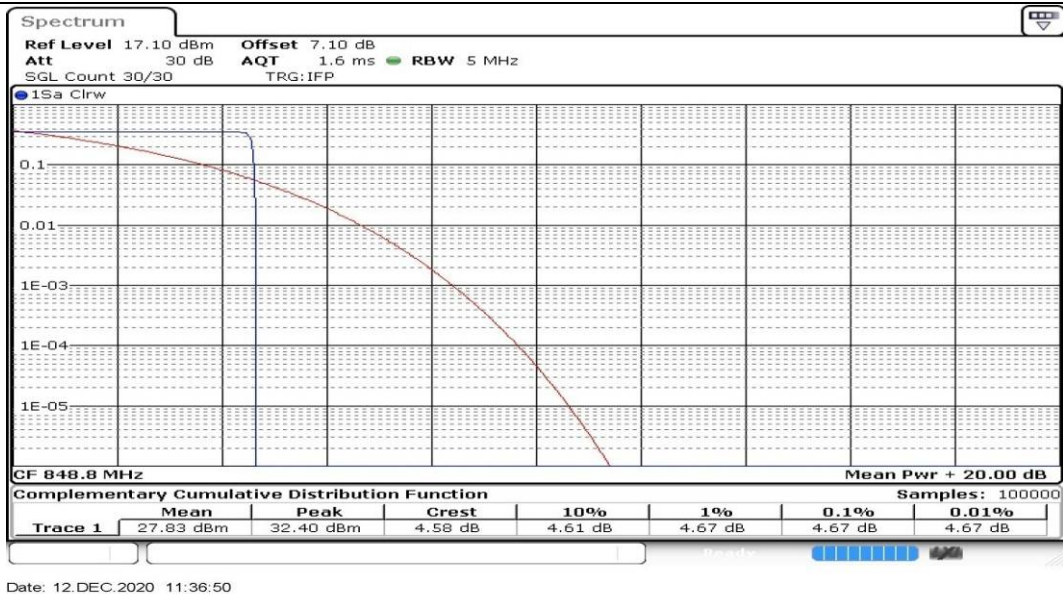
GSM MODE:



Channel 128

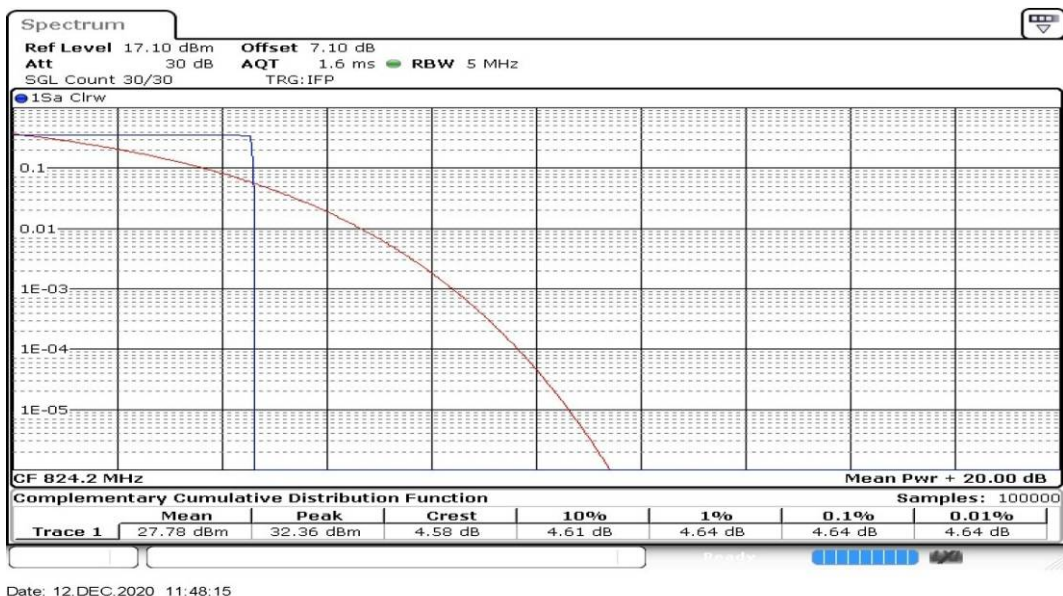


Channel 189

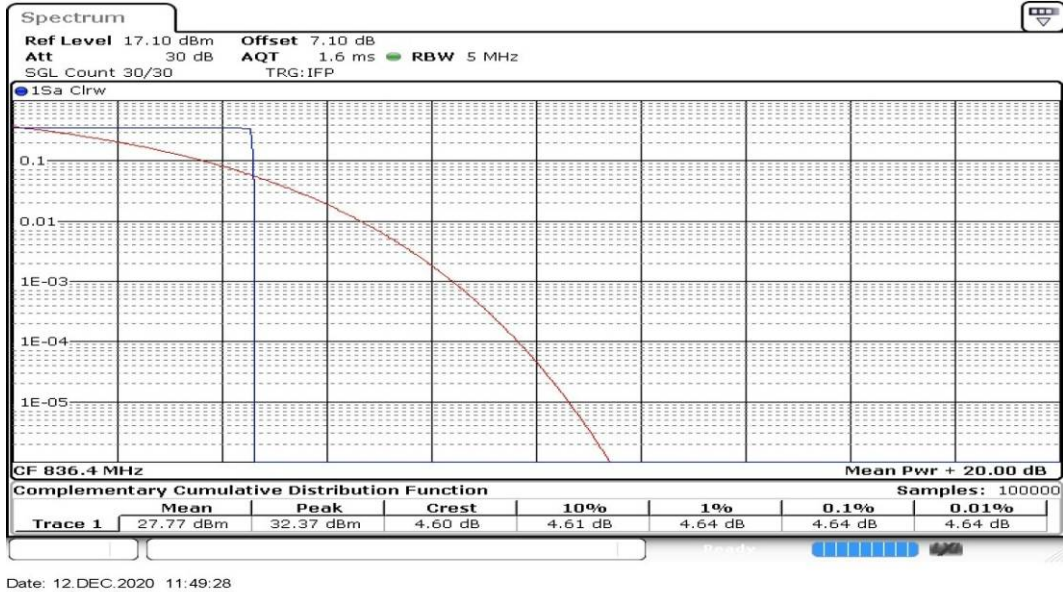


Channel 251

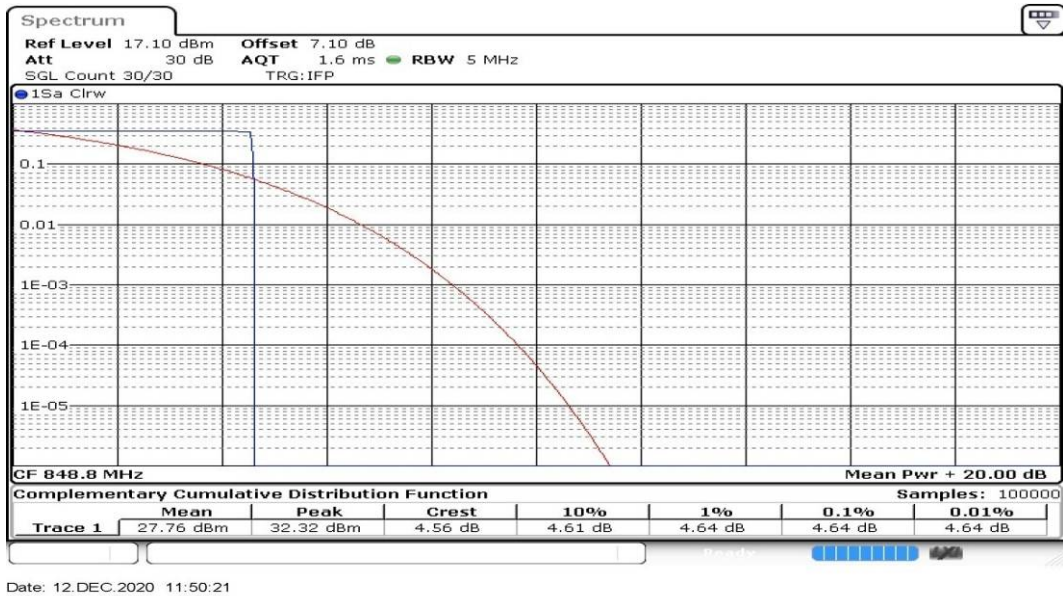
GPRS MODE:



Channel 128

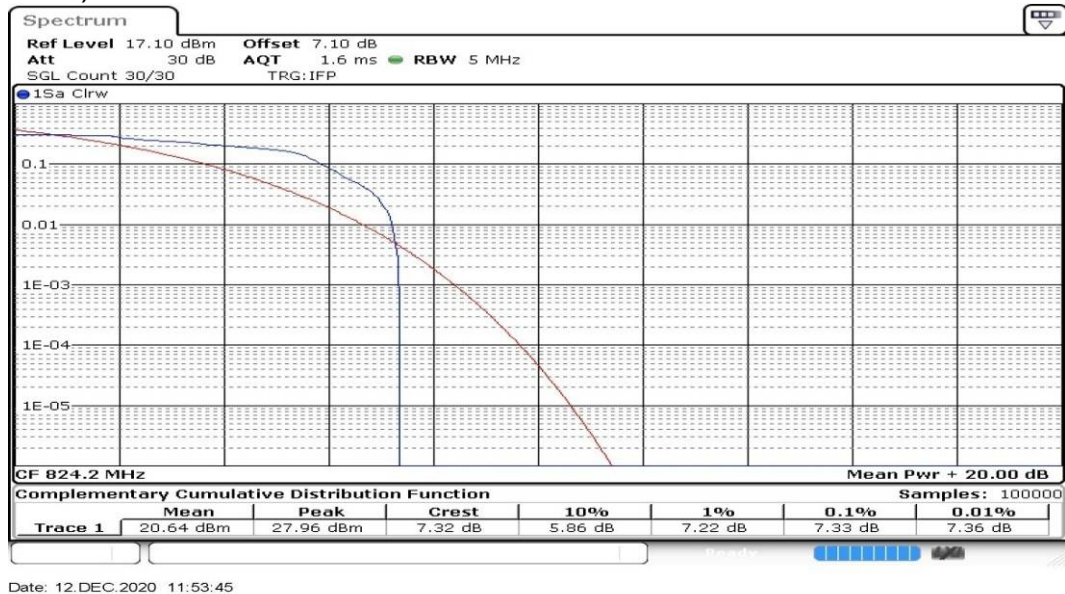


Channel 189

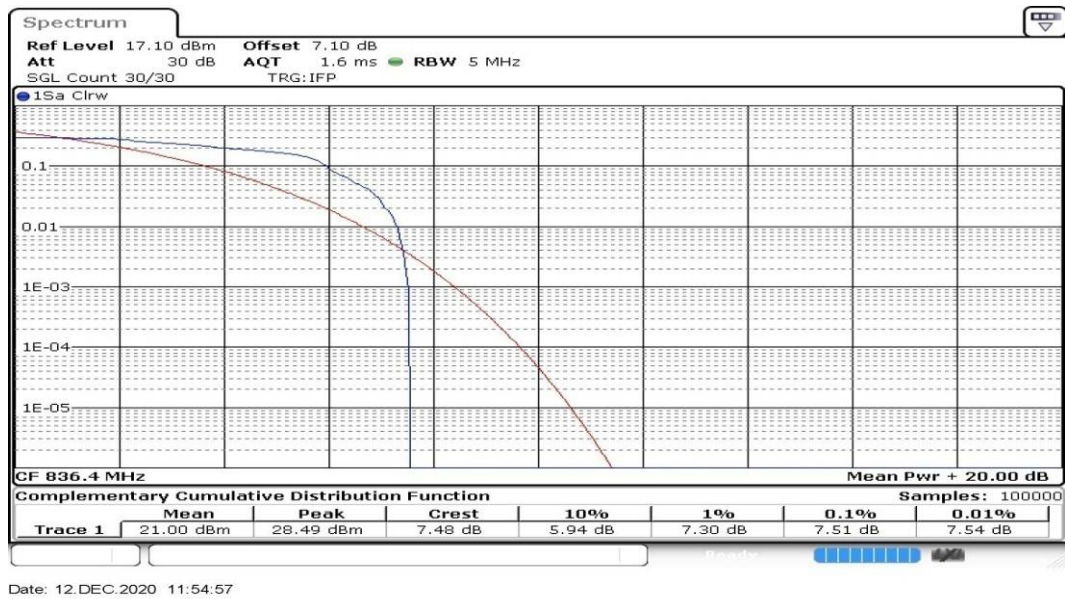


Channel 251

EDGE (8PSK) MODE:



Channel 128



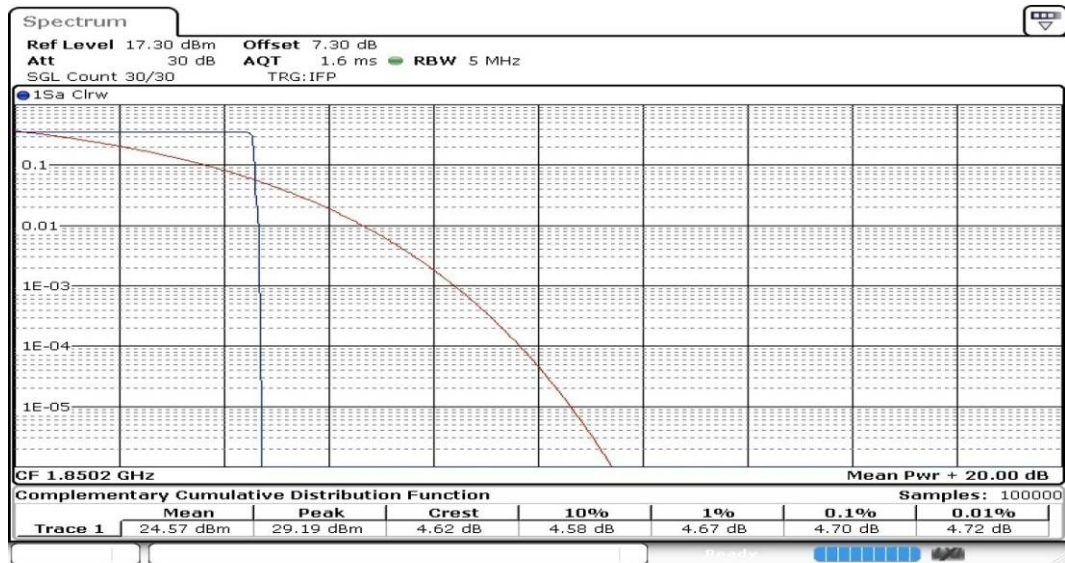
Channel 189



Date: 12.DEC.2020 11:55:51

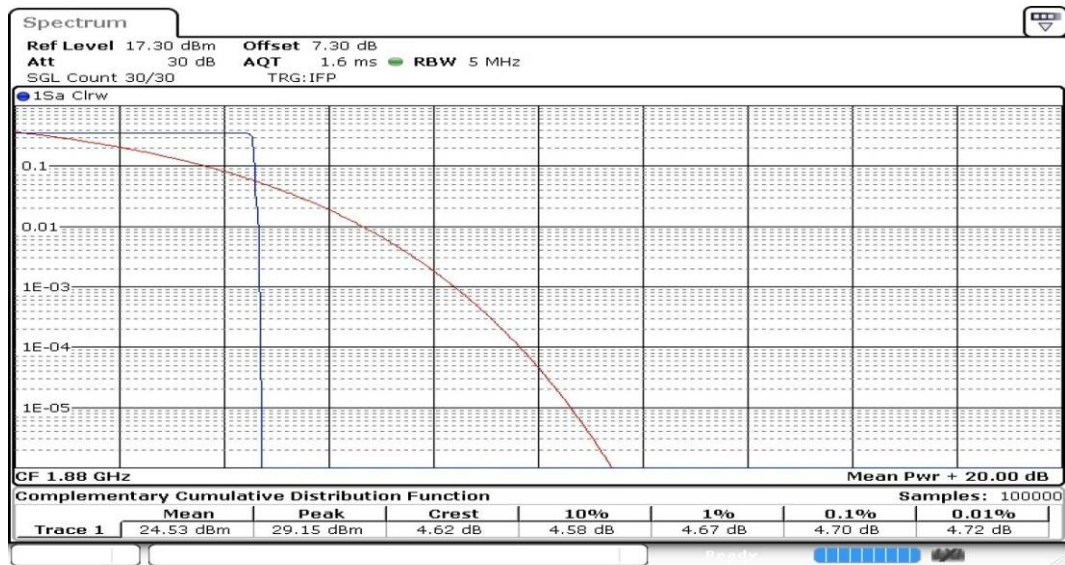
Channel 251

PCS1900
GSM MODE:



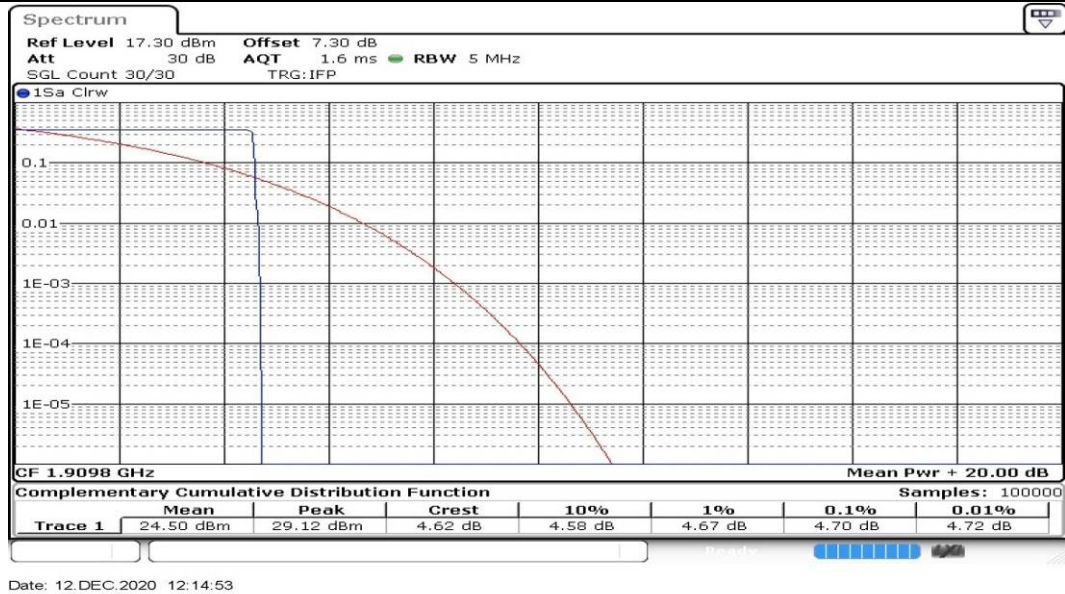
Date: 12.DEC.2020 12:13:05

Channel 512



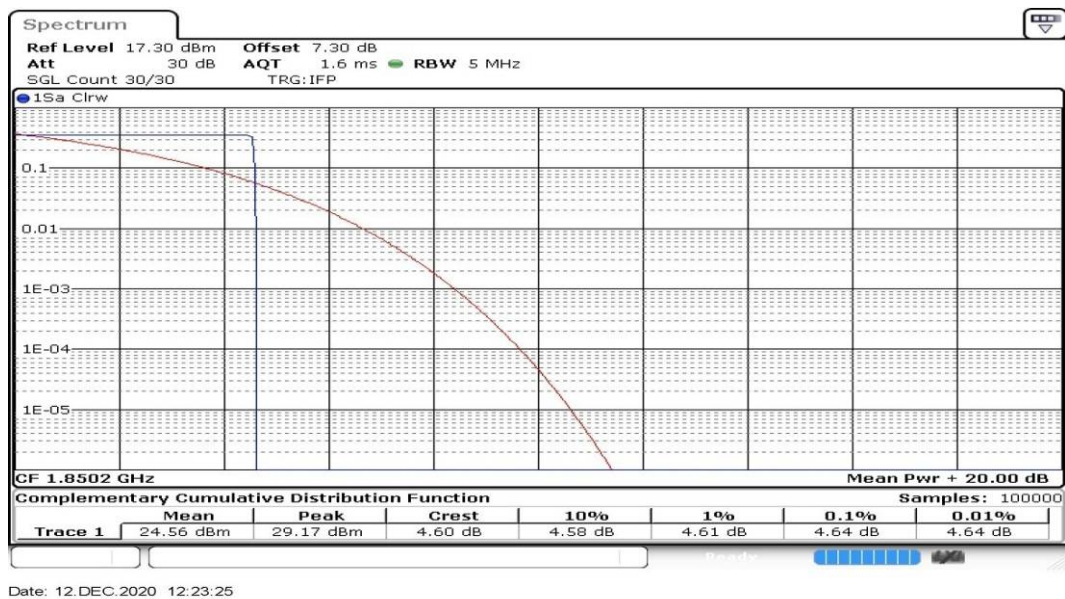
Date: 12.DEC.2020 12:14:09

Channel 661

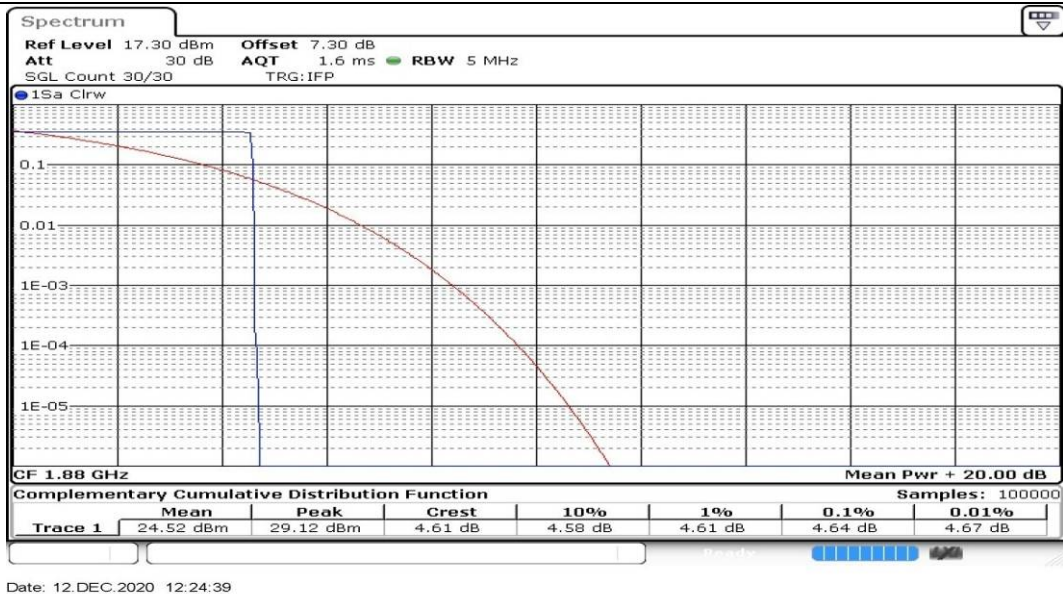


Channel 810

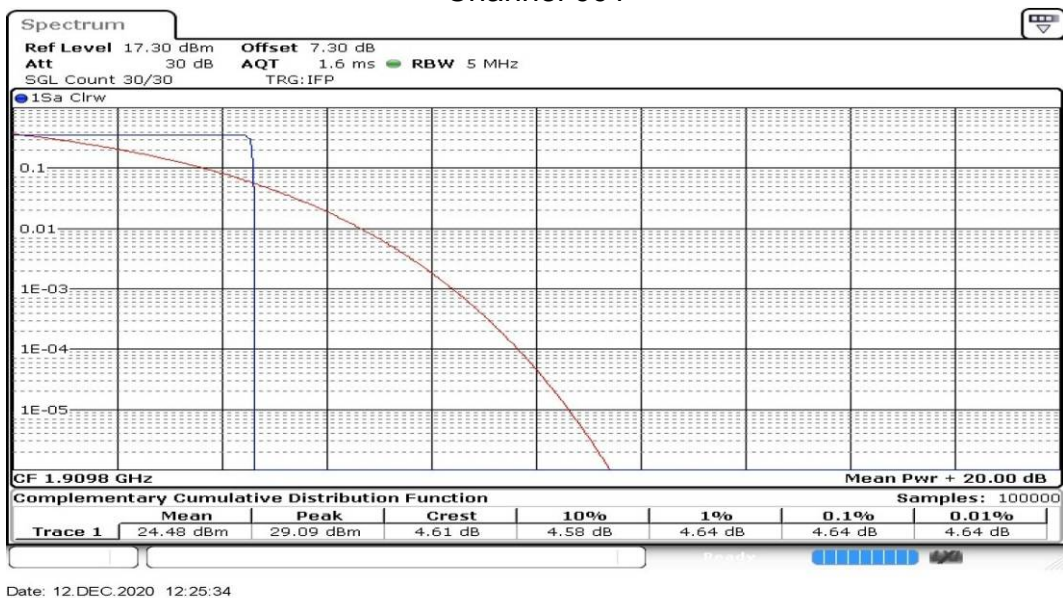
GPRS MODE:



Channel 512

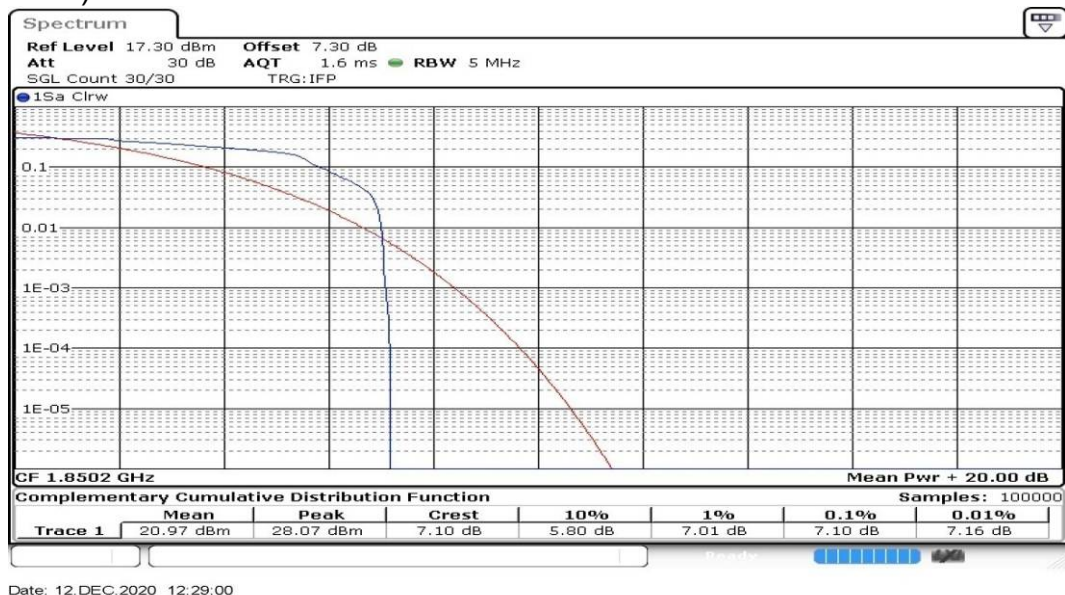


Channel 661

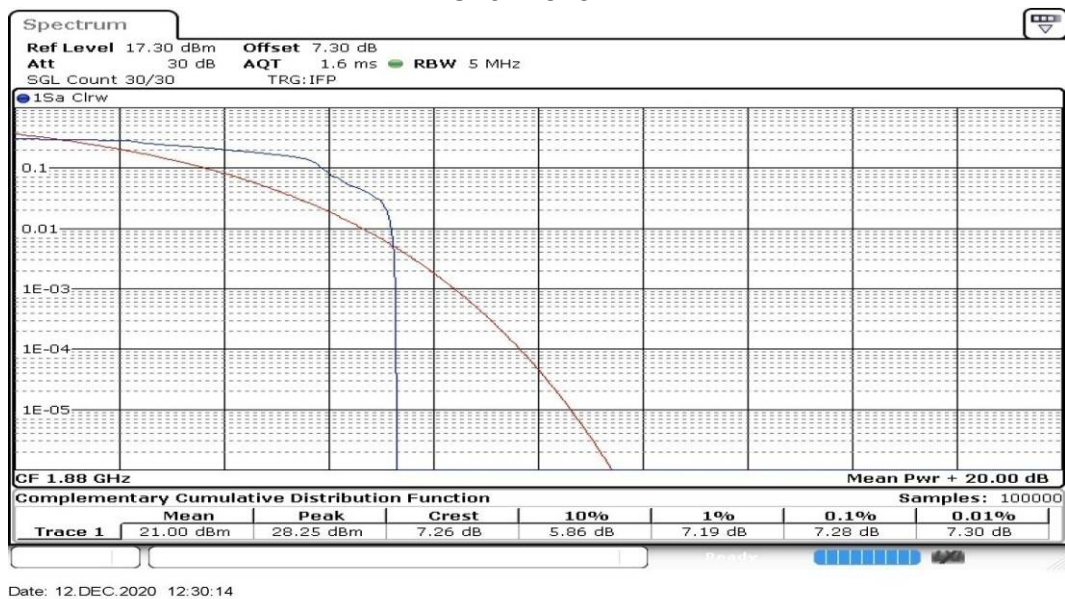


Channel 810

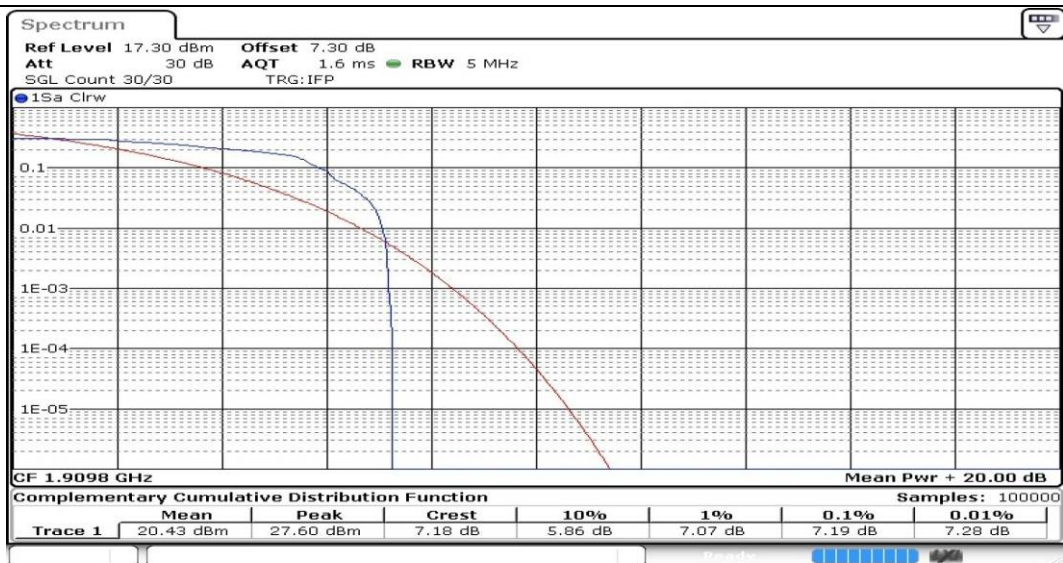
EDGE (8PSK) MODE:



Channel 512



Channel 661



Date: 12.DEC.2020 12:31:10

Channel 810

8. Effective Radiated Power and Effective Isotropic Radiated Power

GSM850

GSM Measured Power:

Carrier frequency (MHz)	Channel No.	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP (W)
824.2	128	32.83	28.18	0.658
836.4	189	32.80	28.15	0.653
848.8	251	32.73	28.08	0.643

GPRS Measured Power:

Carrier frequency (MHz)	Channel No.	TX Moce	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP (W)
824.2	128	4Downlink1uplink	32.80	28.15	0.653
836.4	189		32.79	28.14	0.652
848.8	251		32.73	28.08	0.643
824.2	128	3Downlink2uplink	30.84	26.19	0.416
836.4	189		30.66	26.01	0.399
848.8	251		30.51	25.86	0.385
824.2	128	2Downlink3uplink	28.99	24.34	0.272
836.4	189		28.83	24.18	0.262
848.8	251		28.67	24.02	0.252
824.2	128	1Downlink4uplink	26.79	22.14	0.164
836.4	189		26.65	22.00	0.158
848.8	251		26.56	21.91	0.155

EGPRS (8PSK) Measured Power:

Carrier frequency (MHz)	Channel No.	TX Moce	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP (W)
824.2	128	8PSK 4Downlink1uplink	25.72	21.07	0.128
836.4	189		26.23	21.58	0.144
848.8	251		25.91	21.26	0.134
824.2	128	8PSK 3Downlink2uplink	25.56	20.91	0.123
836.4	189		26.09	21.44	0.139
848.8	251		25.78	21.13	0.130
824.2	128	8PSK 2Downlink3uplink	24.86	20.21	0.105
836.4	189		24.46	19.81	0.096
848.8	251		24.13	19.48	0.089
824.2	128	8PSK 1Downlink4uplink	22.49	17.84	0.061
836.4	189		22.85	18.20	0.066
848.8	251		22.96	18.31	0.068

PCS1900

GSM Measured Power:

Carrier frequency (MHz)	Channel No.	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP (W)
1850.2	512	29.56	28.36	0.685
1880.0	661	29.50	28.30	0.676
1909.8	810	29.52	28.32	0.679

GPRS Measured Power:

Carrier frequency (MHz)	Channel No.	TX Moce	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP (W)
1850.2	512	4Downlink1uplink	29.54	28.34	0.682
1880.0	661		29.49	28.29	0.675
1909.8	810		29.52	28.32	0.679
1850.2	512	3Downlink2uplink	27.52	26.32	0.429
1880.0	661		27.21	26.01	0.399
1909.8	810		27.08	25.88	0.387
1850.2	512	2Downlink3uplink	26.09	24.89	0.308
1880.0	661		25.73	24.53	0.284
1909.8	810		25.55	24.35	0.272
1850.2	512	1Downlink4uplink	24.02	22.82	0.191
1880.0	661		23.67	22.47	0.177
1909.8	810		23.50	22.30	0.170

EGPRS (8PSK) Measured Power:

Carrier frequency (MHz)	Channel No.	TX Moce	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP (W)
1850.2	512	8PSK 4Downlink1uplink	25.87	24.67	0.293
1880.0	661		26.16	24.96	0.313
1909.8	810		25.41	24.21	0.264
1850.2	512	8PSK 3Downlink2uplink	25.69	24.49	0.281
1880.0	661		25.99	24.79	0.301
1909.8	810		25.24	24.04	0.254
1850.2	512	8PSK 2Downlink3uplink	23.81	22.61	0.182
1880.0	661		23.99	22.79	0.190
1909.8	810		23.39	22.19	0.166
1850.2	512	8PSK 1Downlink4uplink	21.22	20.02	0.100
1880.0	661		21.42	20.22	0.105
1909.8	810		21.49	20.29	0.107

APPENDIX B – TEST DATA OF RADIATED EMISSION

Radiated Spurious Emissions

GSM850

Test result:

GSM/GPRS MODE Channel 128:

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
1649.37	-52.58	-13	Vertical
1667.04	-51.24	-13	Vertical
2536.02	-44.26	-13	Vertical
2578.07	-43.70	-13	Vertical
8964.44	-39.19	-13	Vertical
9969.95	-36.32	-13	Vertical

EDGE (8PSK) MODE Channel 128:

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
1649.39	-52.59	-13	Vertical
1666.86	-51.17	-13	Vertical
2532.66	-43.86	-13	Vertical
2575.33	-43.70	-13	Vertical
8963.96	-39.93	-13	Vertical
9970.51	-36.83	-13	Vertical

GSM/GPRS MODE Channel 189:

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
1646.93	-52.50	-13	Vertical
1668.65	-51.49	-13	Vertical
2535.88	-43.82	-13	Vertical
2577.57	-43.76	-13	Vertical
8961.62	-39.78	-13	Vertical
9972.52	-36.77	-13	Vertical

EDGE (8PSK) MODE Channel 189:

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
1647.68	-53.17	-13	Vertical
1667.67	-51.52	-13	Vertical
2534.56	-44.39	-13	Vertical
2576.69	-44.41	-13	Vertical
8963.00	-39.24	-13	Vertical
9970.67	-36.03	-13	Vertical

GSM/GPRS MODE Channel 251:

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
1648.34	-53.33	-13	Vertical
1665.72	-51.26	-13	Vertical
2533.08	-43.99	-13	Vertical
2575.87	-44.17	-13	Vertical
8963.37	-39.54	-13	Vertical
9971.37	-36.19	-13	Vertical

EDGE (8PSK) MODE Channel 251:

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
1649.95	-52.80	-13	Vertical
1667.38	-51.27	-13	Vertical
2533.02	-43.93	-13	Vertical
2576.89	-43.92	-13	Vertical
8960.76	-39.24	-13	Vertical
9970.21	-36.83	-13	Vertical

GSM1900

Test result:

GSM/GPRS MODE Channel 512

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
2460.46	-48.55	-13	Vertical
2780.81	-46.91	-13	Vertical
3727.00	-40.38	-13	Vertical
6678.03	-40.08	-13	Vertical
9960.55	-37.29	-13	Vertical
17819.21	-33.81	-13	Vertical

EDGE (8PSK) MODE Channel 512:

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
2461.35	-48.99	-13	Vertical
2779.49	-47.10	-13	Vertical
3726.72	-41.12	-13	Vertical
6677.28	-40.02	-13	Vertical
9961.57	-36.83	-13	Vertical
17821.12	-34.41	-13	Vertical

GSM/GPRS MODE Channel 661:

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
2458.67	-48.85	-13	Vertical
2781.54	-47.38	-13	Vertical
3724.74	-40.74	-13	Vertical
6678.14	-39.89	-13	Vertical
9960.36	-37.41	-13	Vertical
17822.35	-33.94	-13	Vertical

EDGE (8PSK) MODE Channel 661:

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
2458.81	-48.58	-13	Vertical
2780.50	-46.97	-13	Vertical
3726.63	-41.00	-13	Vertical
6674.94	-39.39	-13	Vertical
9960.74	-37.33	-13	Vertical
17820.17	-33.85	-13	Vertical

GSM/GPRS MODE Channel 810:

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
2458.45	-49.24	-13	Vertical
2778.81	-47.00	-13	Vertical
3725.16	-41.10	-13	Vertical
6676.54	-39.50	-13	Vertical
9962.96	-37.76	-13	Vertical
17819.26	-33.59	-13	Vertical

EDGE (8PSK) MODE Channel 810:

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
2460.44	-48.80	-13	Vertical
2779.65	-47.23	-13	Vertical
3724.45	-40.95	-13	Vertical
6677.10	-39.93	-13	Vertical
9962.27	-36.99	-13	Vertical
17821.85	-33.63	-13	Vertical

Worst case test result:

850Test result:

GSM/GPRS MODE Channel 128:

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
1650.43	-52.70	-13	Vertical
1667.32	-51.66	-13	Vertical
2534.76	-44.09	-13	Vertical
2577.23	-42.92	-13	Vertical
8965.60	-39.78	-13	Vertical
9970.41	-35.93	-13	Vertical

GSM/GPRS MODE Channel 189:

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
1646.93	-52.22	-13	Vertical
1665.28	-51.53	-13	Vertical
2534.70	-44.02	-13	Horizontal
2573.65	-42.65	-13	Vertical
8962.08	-39.37	-13	Vertical
9968.44	-35.95	-13	Vertical

GSM/GPRS MODE Channel 251:

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
1647.80	-52.70	-13	Vertical
1666.65	-51.81	-13	Vertical
2532.97	-43.20	-13	Vertical
2575.65	-42.77	-13	Horizontal
8962.01	-39.83	-13	Vertical
9971.01	-36.02	-13	Vertical

---End of Test Report---