



Channel 661



Channel 810

EGPRS (8PSK) MODE:



Channel 512



Channel 661



Channel 810

3. Emission Bandwidth

PCS1900

GSM MODE:

Carrier frequency (MHz)	Channel No.	Bandwidth of -26dB transmitter power(kHz)
1850.2	512	311.05
1880	661	319.60
1909.8	810	325.15

GPRS MODE:

Carrier frequency (MHz)	Channel No.	Bandwidth of -26dB (kHz)
1850.2	512	314.31
1880	661	310.69
1909.8	810	321.38

EGPRS (8PSK) MODE:

Carrier frequency (MHz)	Channel No.	Bandwidth of -26dB transmitter power(kHz)
1850.2	512	315.53
1880	661	307.23
1909.8	810	311.23

PCS1900
GSM MODE:



Channel 512



Channel 661



Channel 810

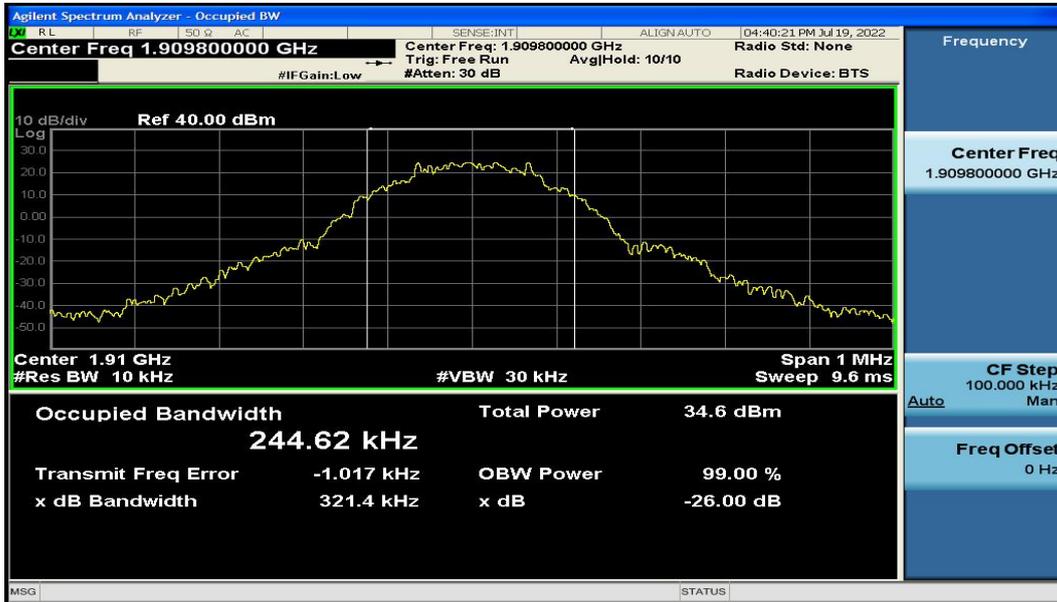
GPRS MODE:



Channel 512



Channel 661



Channel 810

EGPRS (8PSK) MODE:



Channel 512



Channel 661



Channel 810

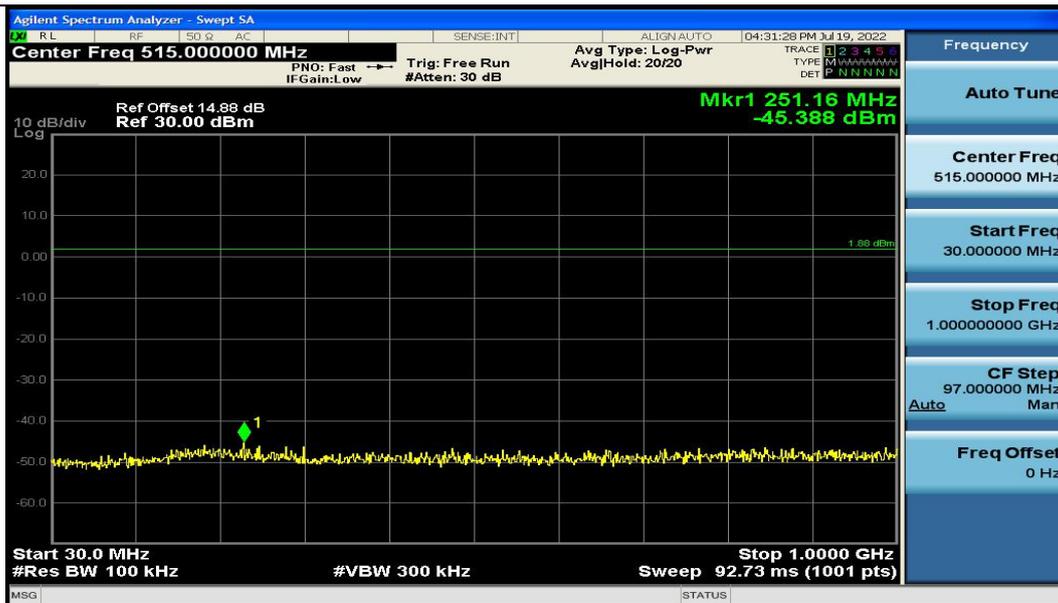
4. Spurious Emissions at antenna terminal

PCS1900

GSM MODE:



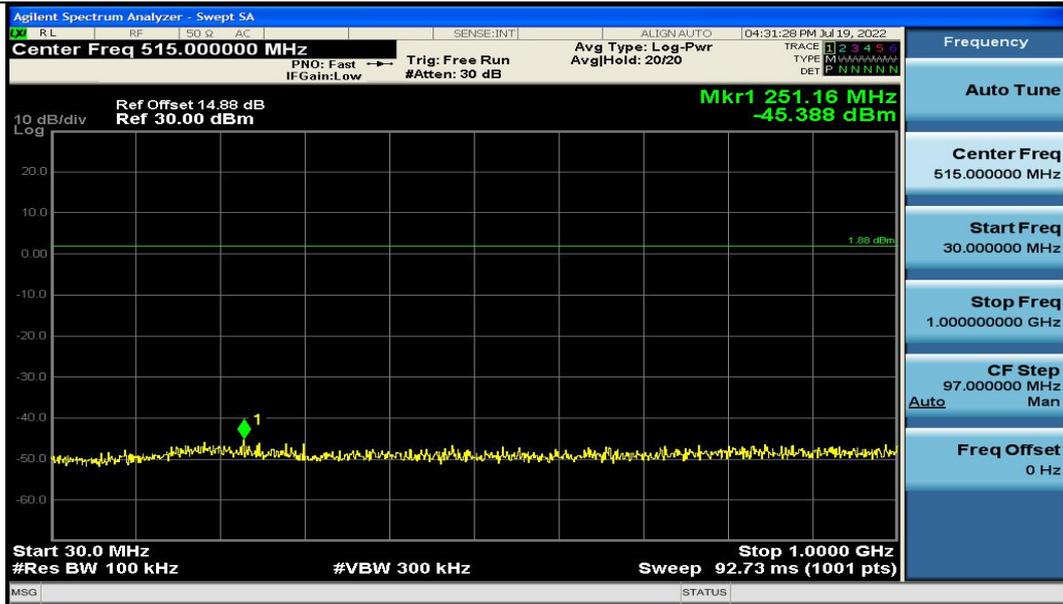
Channel 512



Channel 512



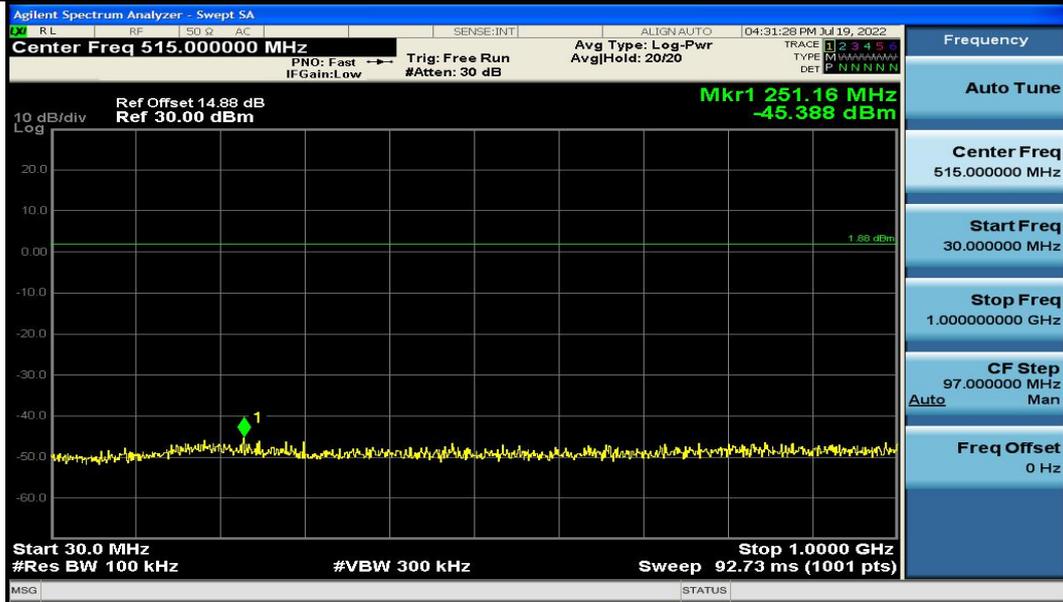
Channel 661



Channel 661



Channel 810

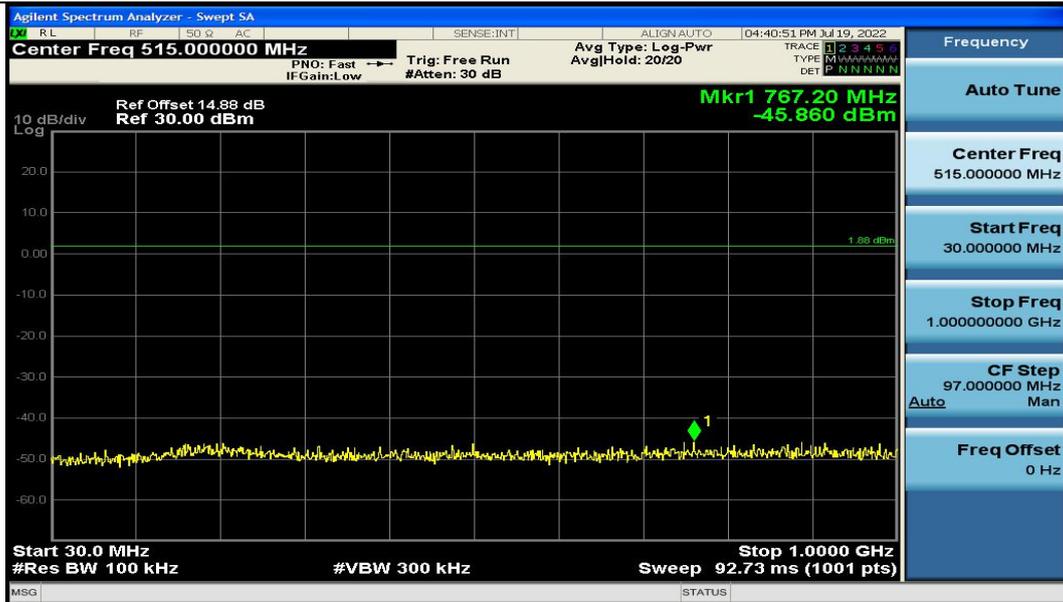


Channel 810

GPRS MODE:



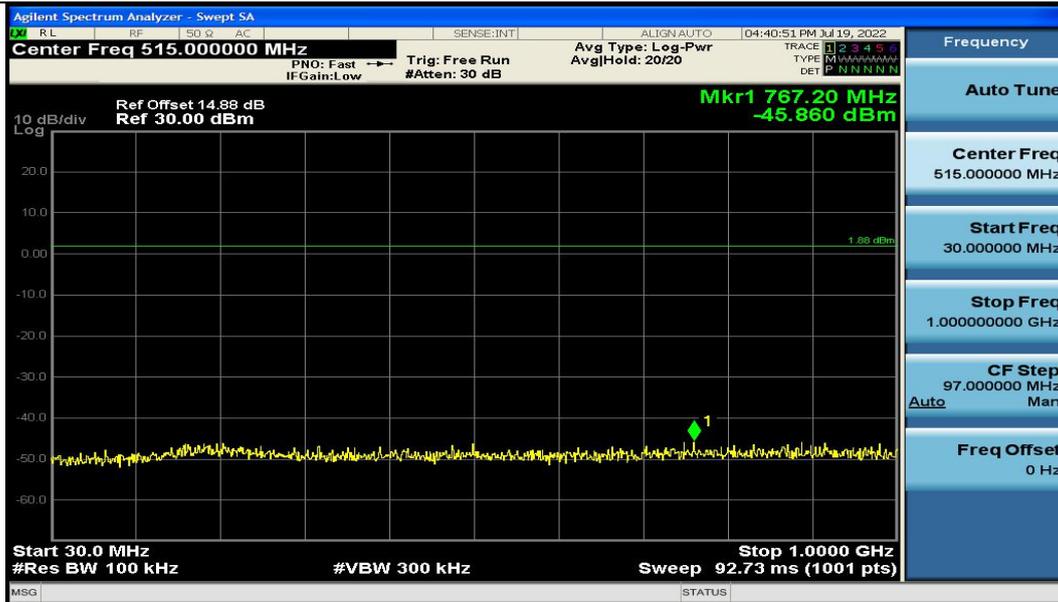
Channel 512



Channel 512



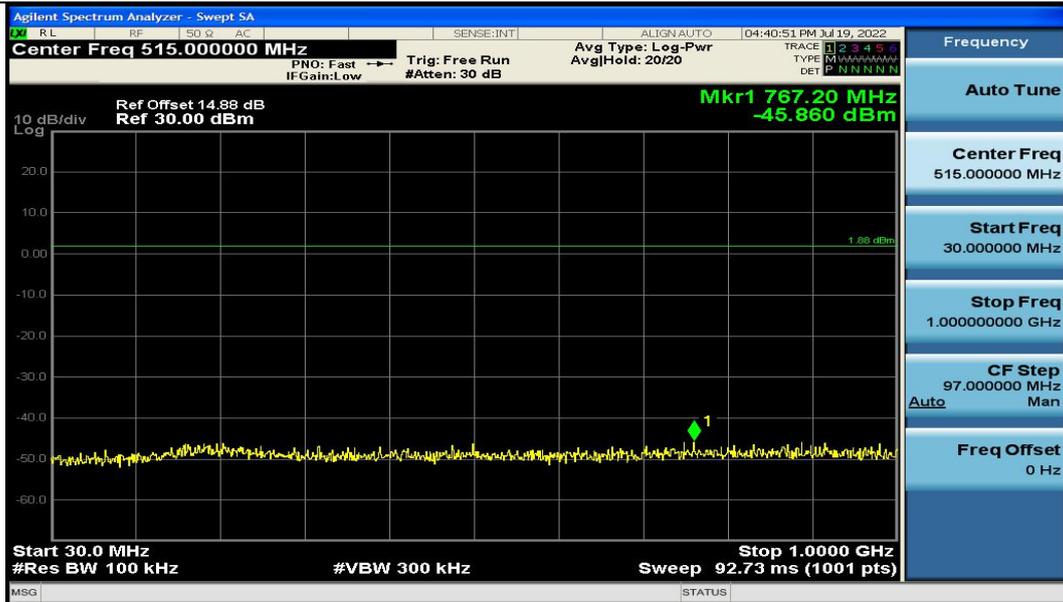
Channel 661



Channel 661



Channel 810

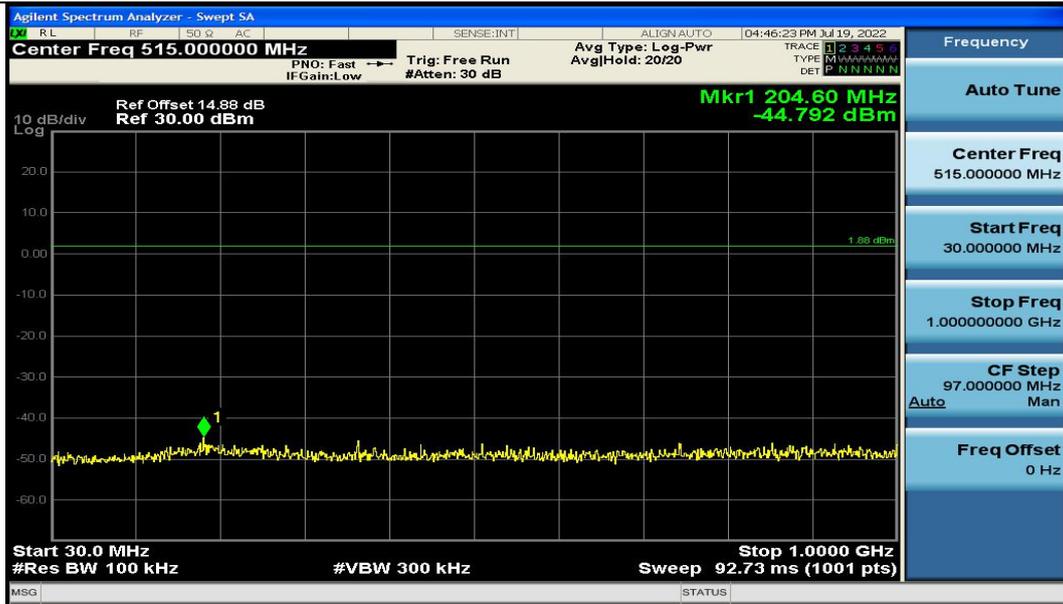


Channel 810

EGPRS (8PSK) MODE:



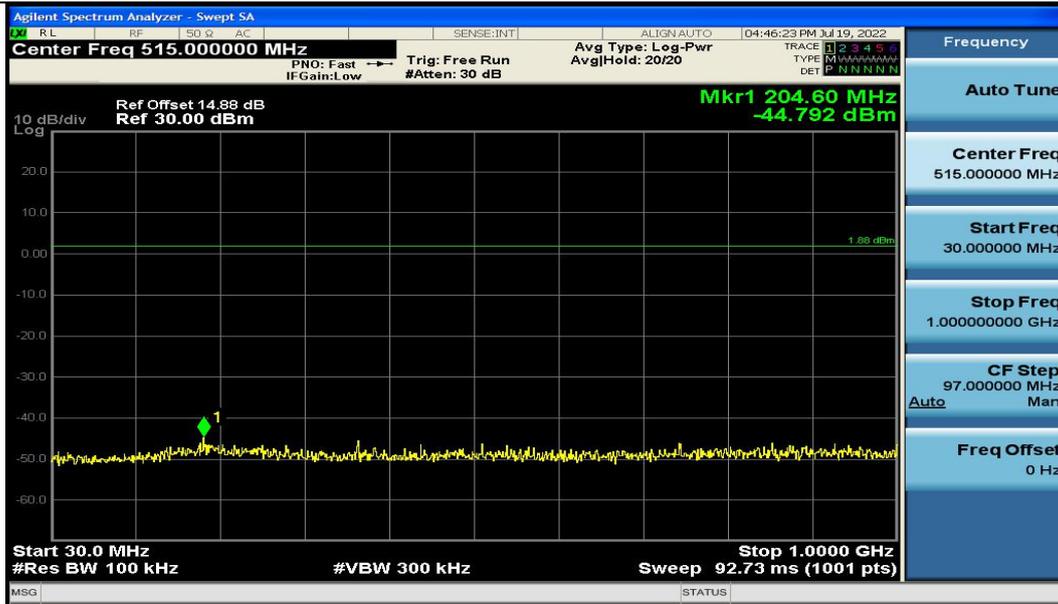
Channel 512



Channel 512



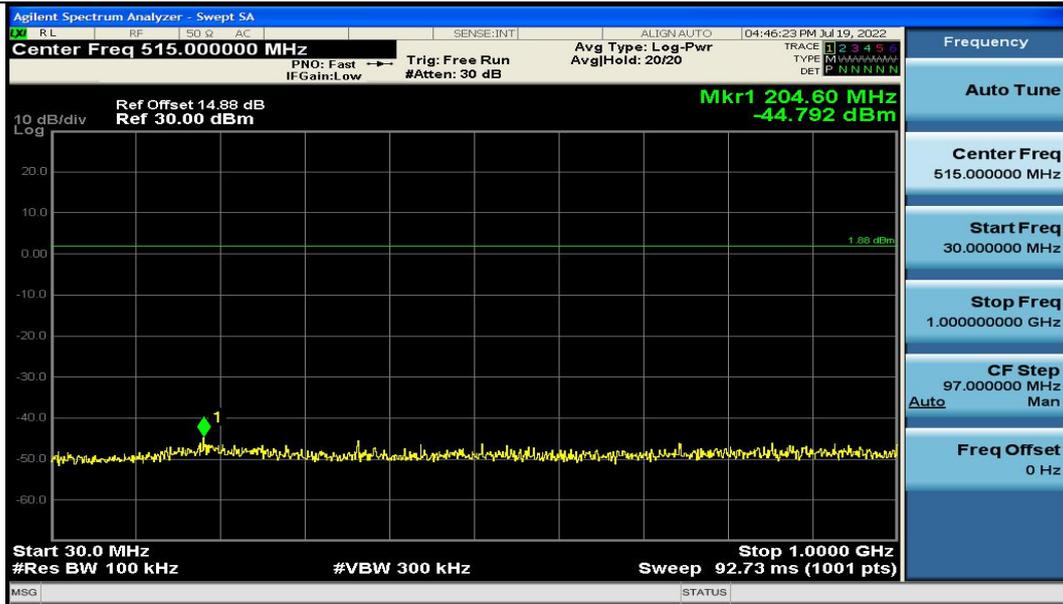
Channel 661



Channel 661

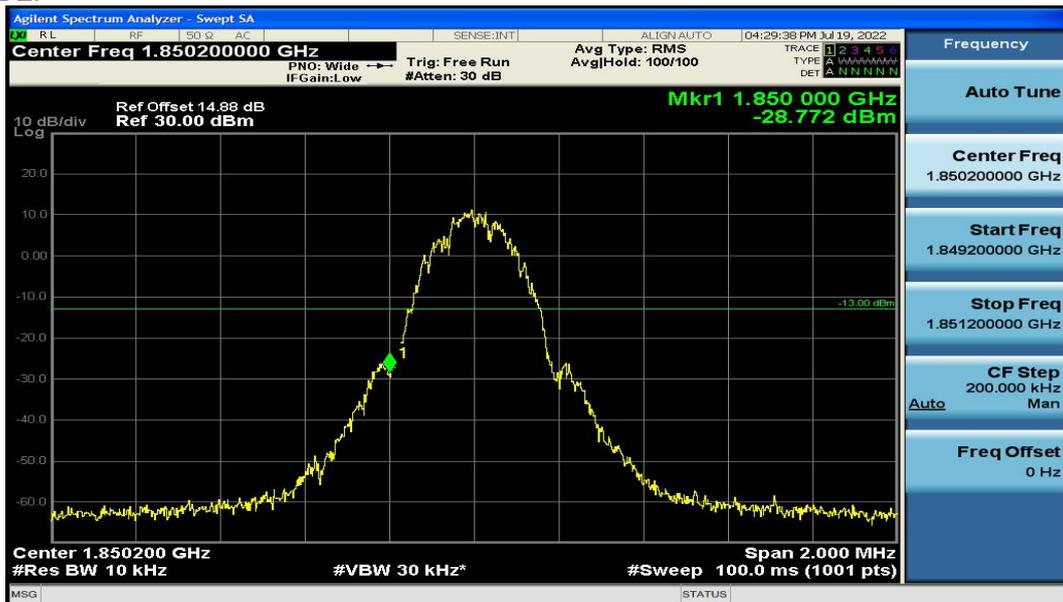


Channel 810

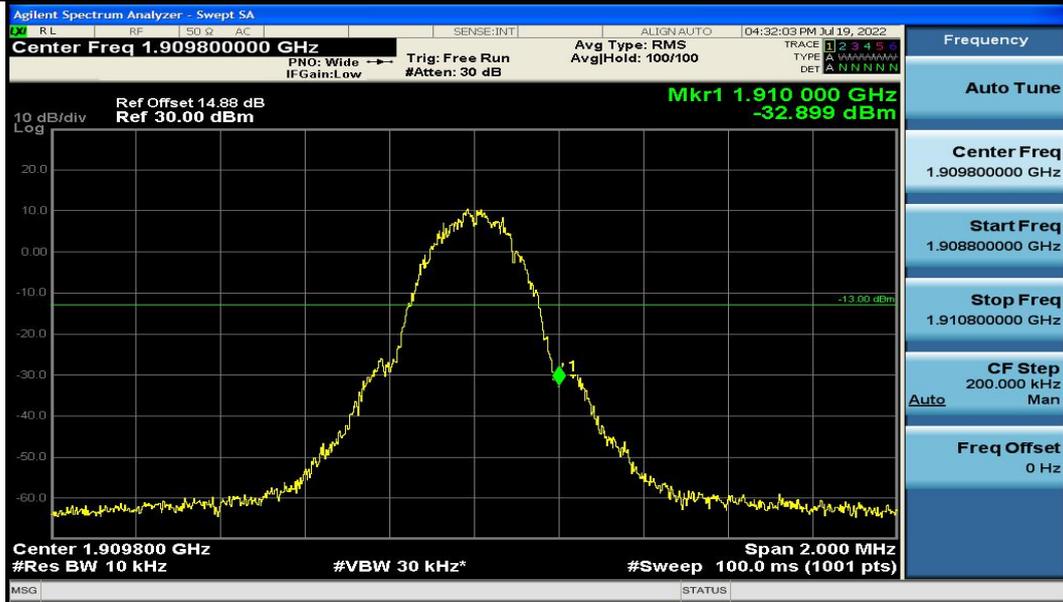


Channel 810

5. Band Edges Compliance
PCS1900
GSM MODE:

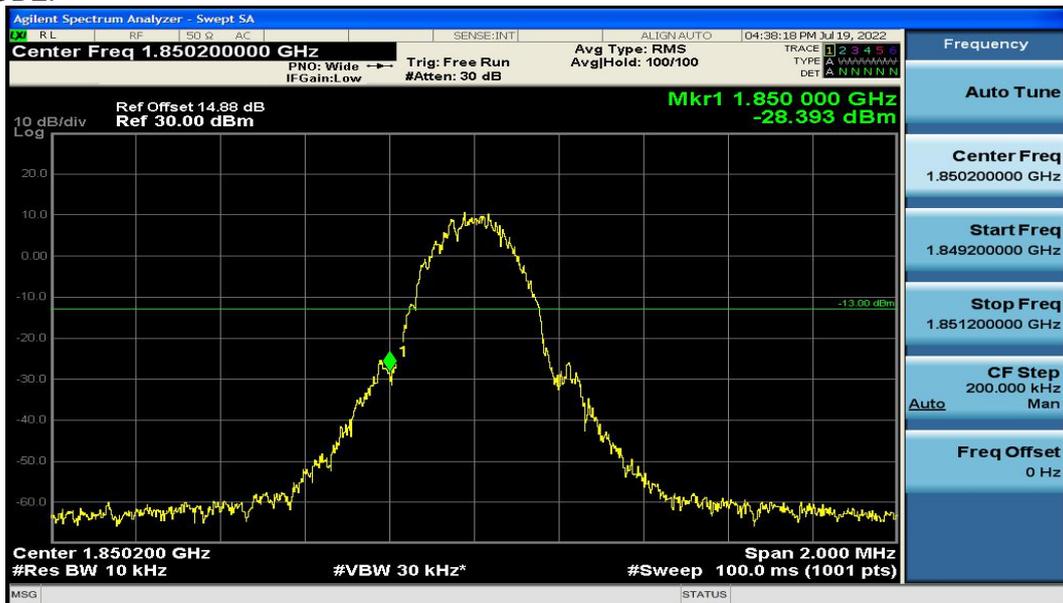


Channel 512

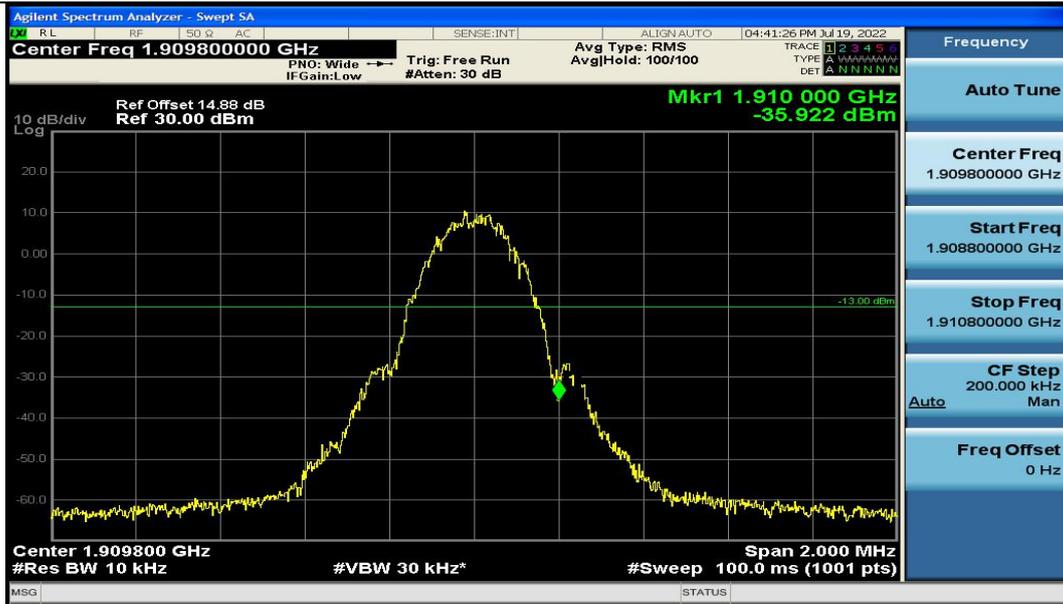


Channel 810

GPRS MODE:

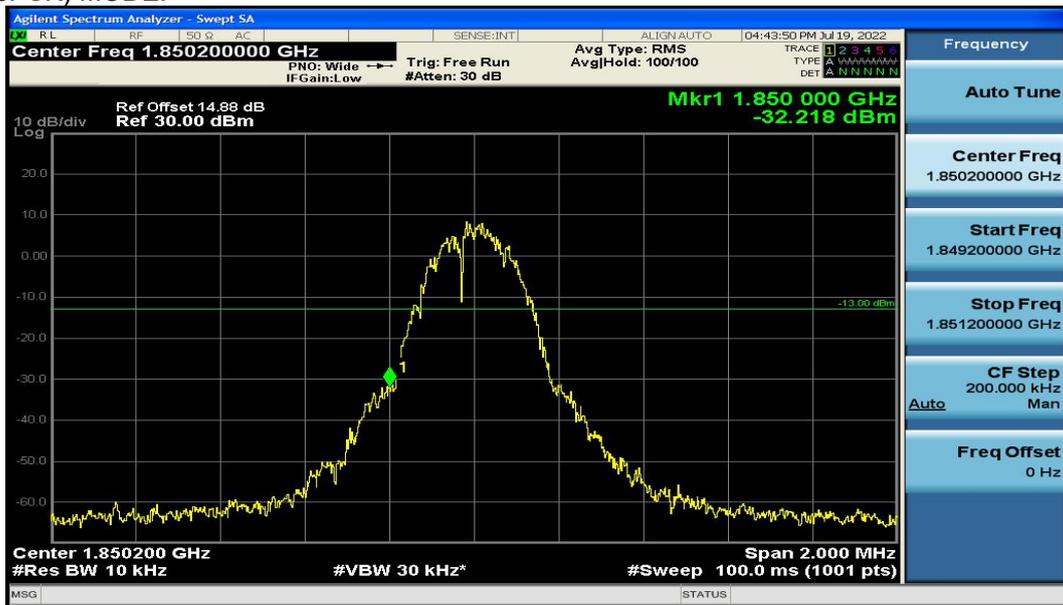


Channel 512

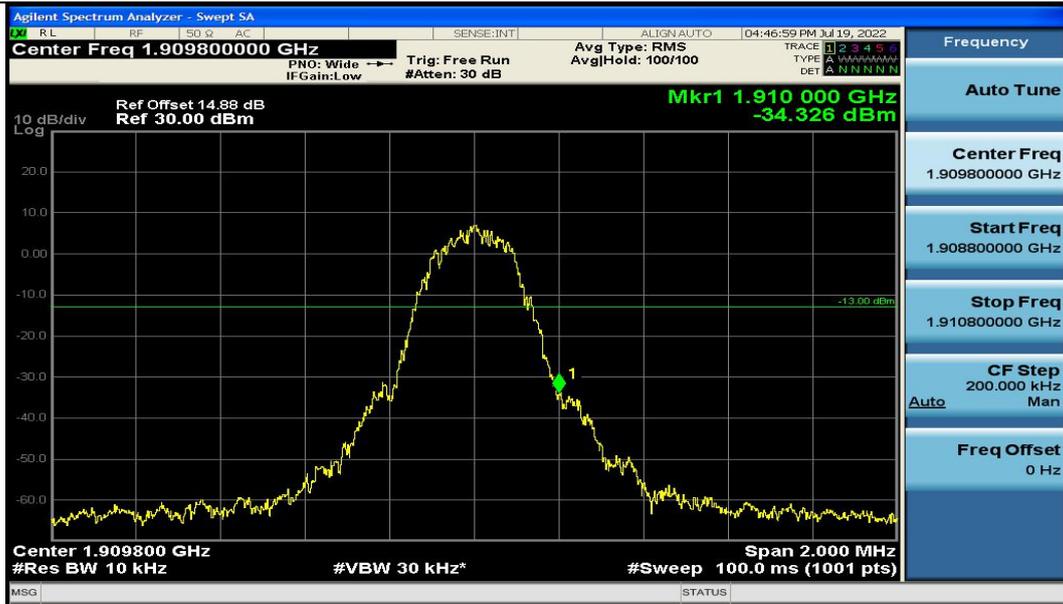


Channel 810

EGPRS (8PSK) MODE:



Channel 512



Channel 810

6. Frequency Stability

PCS1900

GSM MODE:

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

GPRS MODE:

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

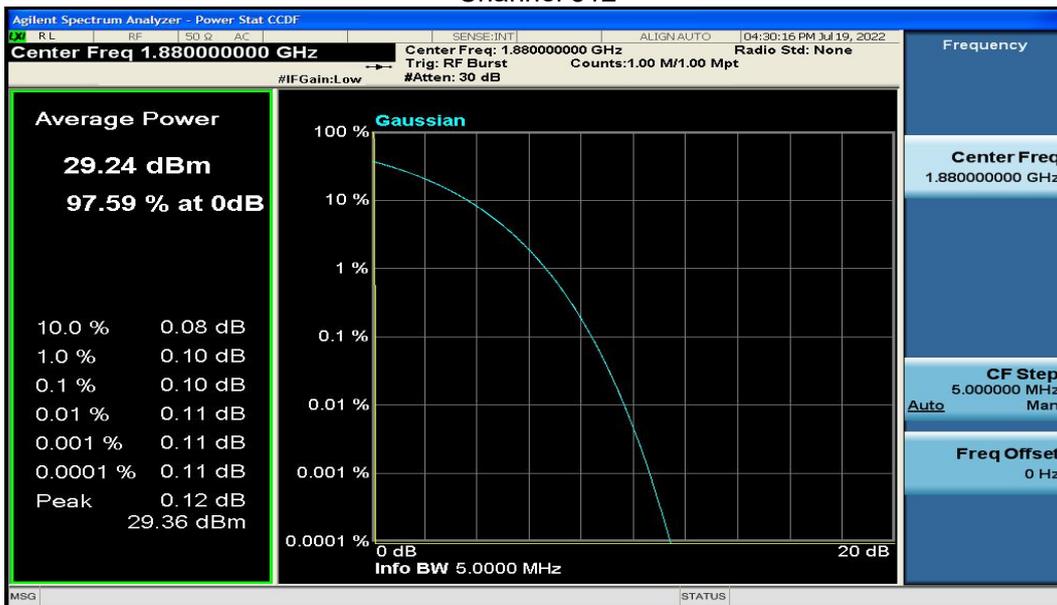
EGPRS (8PSK) MODE:

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

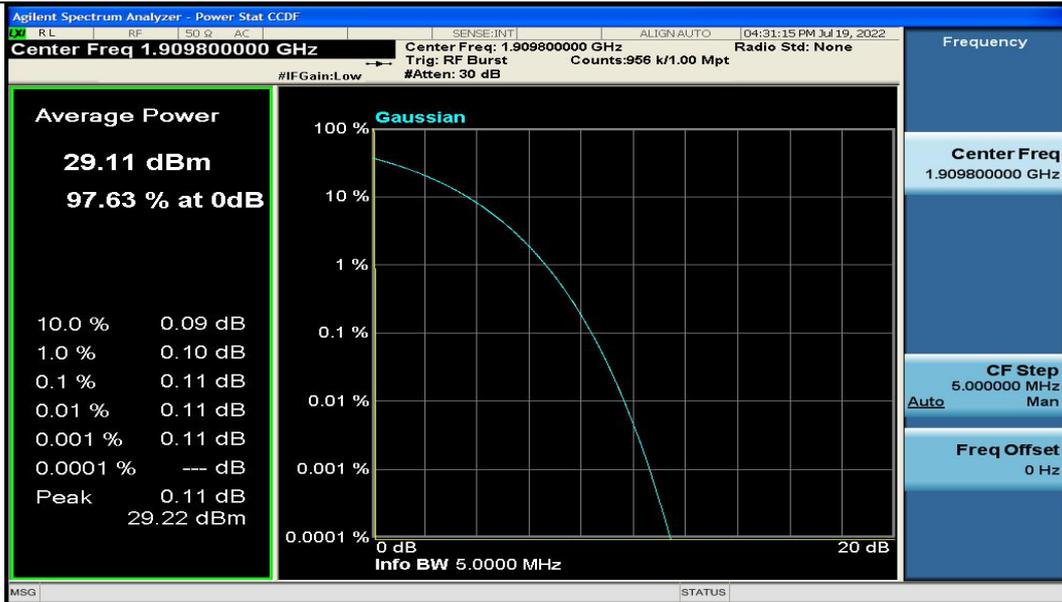
7. Peak-Average Ratio
PCS1900
GSM MODE:



Channel 512



Channel 661

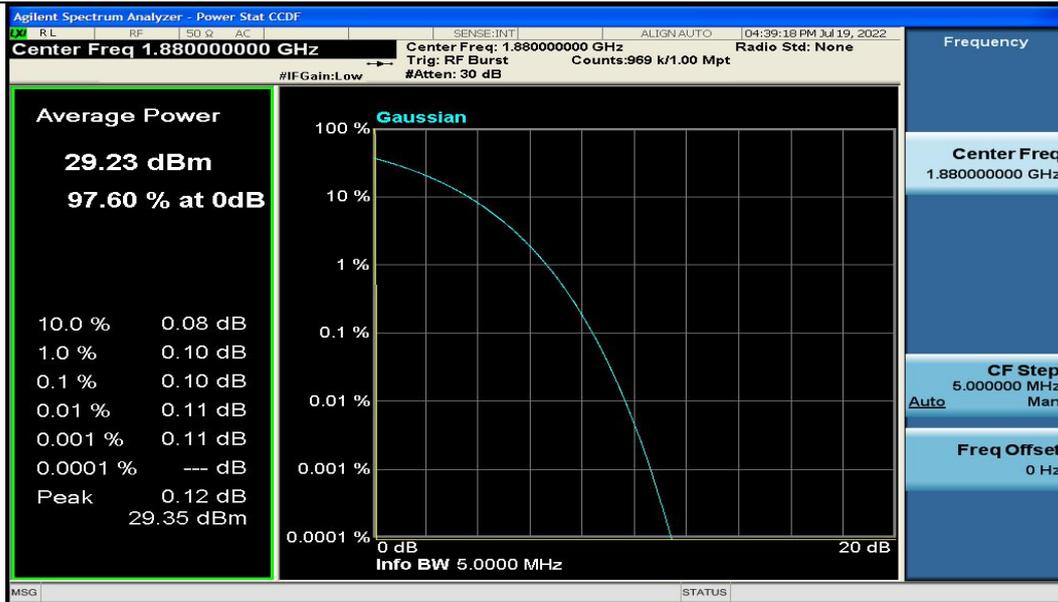


Channel 810

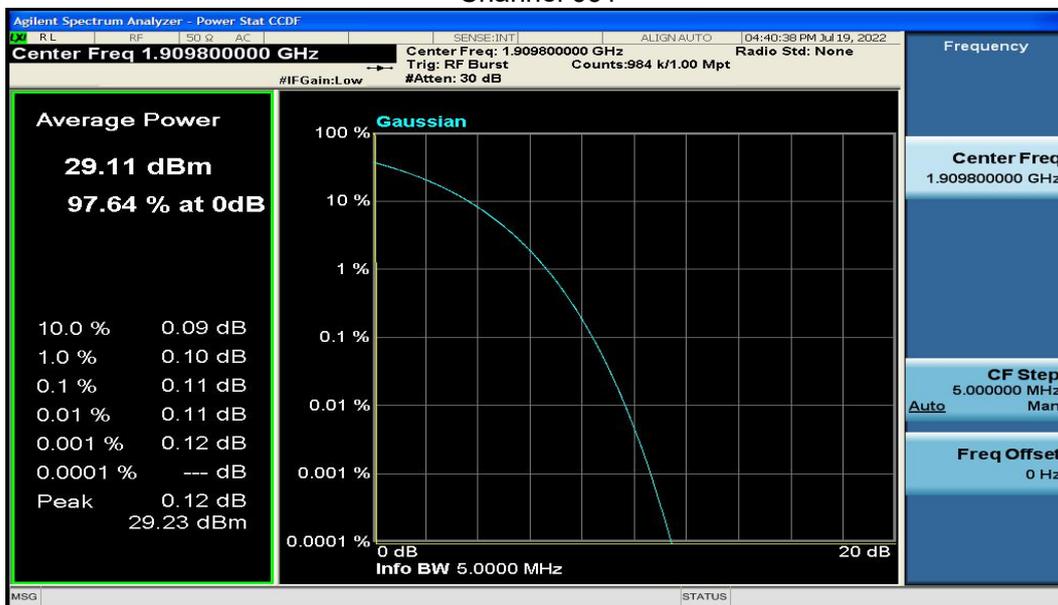
GPRS MODE:



Channel 512

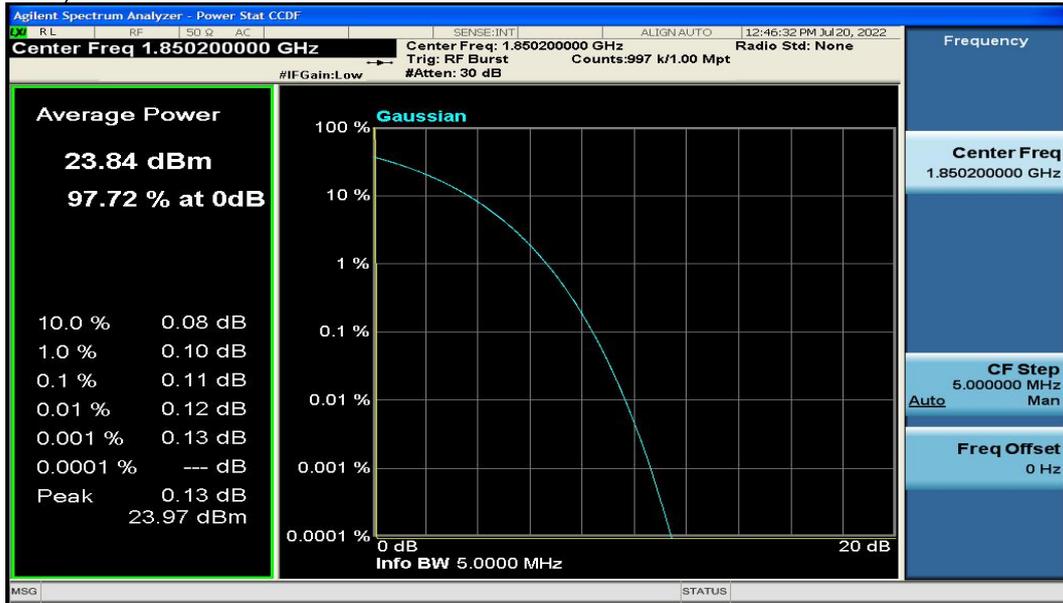


Channel 661

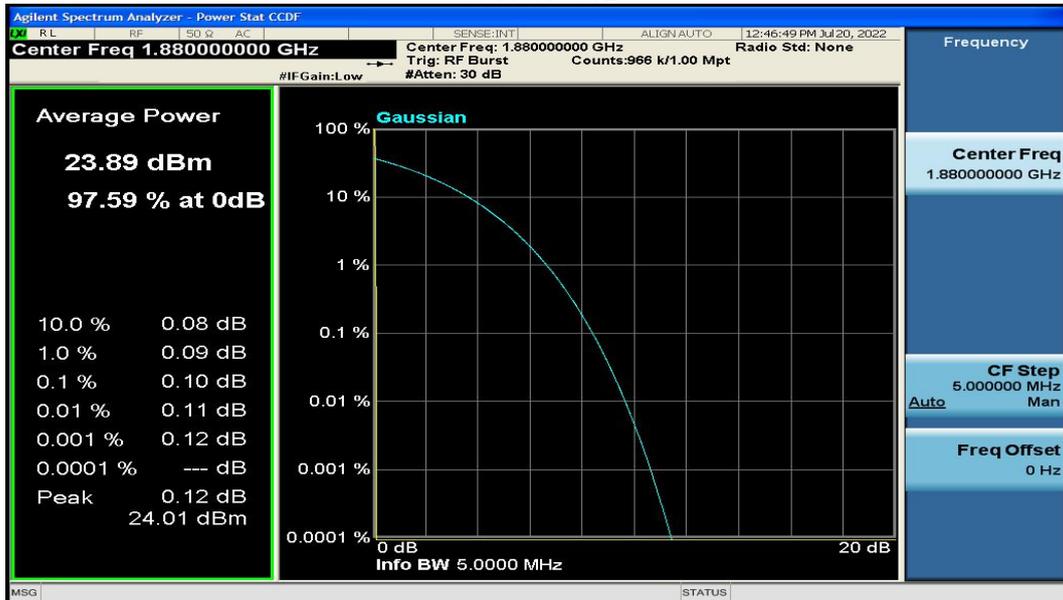


Channel 810

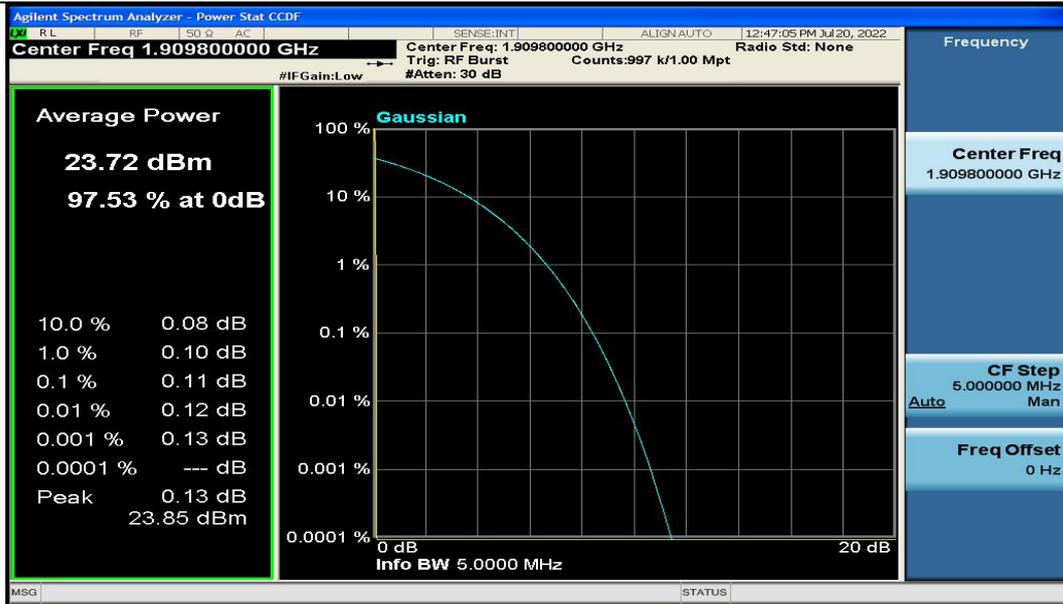
EGPRS (8PSK) MODE:



Channel 512



Channel 661



Channel 810

**8. Effective Radiated Power and Effective Isotropic Radiated Power
PCS1900**

GSM Measured Power:

Carrier frequency (MHz)	Channel No.	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP (W)
1850.2	512	29.58	28.28	0.673
1880	661	29.56	28.26	0.670
1909.8	810	29.44	28.14	0.652

GPRS Measured Power:

Carrier frequency (MHz)	Channel No.	TX Mode	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP (W)
1850.2	512	4Down1Up	24.21	22.91	0.195
1880	661		24.07	22.77	0.189
1909.8	810		23.96	22.66	0.185
1850.2	512	3Down2Up	26.24	24.94	0.312
1880	661		26.10	24.80	0.302
1909.8	810		26.02	24.72	0.296
1850.2	512	2Down3Up	27.70	26.40	0.437
1880	661		27.60	26.30	0.427
1909.8	810		27.54	26.24	0.421
1850.2	512	1Down4Up	29.49	28.19	0.659
1880	661		29.43	28.13	0.650
1909.8	810		29.36	28.06	0.640

EGPRS (8PSK) Measured Power:

Carrier frequency (MHz)	Channel No.	TX Mode	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP (W)
1850.2	512	4Down1Up	20.05	18.75	0.075
1880	661		19.55	18.25	0.067
1909.8	810		19.61	18.31	0.068
1850.2	512	3Down2Up	22.16	20.86	0.122
1880	661		21.74	20.44	0.111
1909.8	810		21.73	20.43	0.110
1850.2	512	2Down3Up	24.32	23.02	0.200
1880	661		24.15	22.85	0.193
1909.8	810		24.03	22.73	0.187
1850.2	512	1Down4Up	26.02	24.72	0.296
1880	661		25.93	24.63	0.290
1909.8	810		26.22	24.92	0.310

APPENDIX B – TEST DATA OF RADIATED EMISSION

Radiated Spurious Emissions

Note: The worst channel results are reflected in the report.

Note: The scanned graph represents the maximum of both horizontal and vertical polarizations and is not a single horizontal or vertical polarization scan.

850 Test result

GSM/GPRS MODE Channel 189:

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
1027.000000	-65.75	-13.00	Vertical
1033.000000	-65.76	-13.00	Vertical
1672.750000	-58.68	-13.00	Vertical
2509.250000	-47.24	-13.00	Vertical
2509.937500	-47.56	-13.00	Vertical
2926.375000	-64.92	-13.00	Vertical

EGPRS MODE Channel 189:

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
1010.375000	-64.84	-13.00	Vertical
1031.125000	-66.62	-13.00	Vertical
1801.937500	-67.62	-13.00	Vertical
2066.625000	-67.59	-13.00	Vertical
2533.187500	-66.67	-13.00	Vertical
2960.062500	-65.10	-13.00	Vertical

1900 Test result

GSM/GPRS MODE Channel 661:

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
8598.281250	-56.77	-13.00	Vertical
10395.937500	-56.47	-13.00	Vertical
11514.843750	-56.41	-13.00	Vertical
14538.281250	-51.93	-13.00	Vertical
16854.843750	-45.31	-13.00	Vertical
17917.500000	-45.02	-13.00	Vertical

GSM/GPRS MODE Channel 661:

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
8778.281250	-56.90	-13.00	Vertical
10397.812500	-56.54	-13.00	Vertical
11518.125000	-56.44	-13.00	Vertical
15020.625000	-51.69	-13.00	Vertical
16855.781250	-44.99	-13.00	Vertical
17929.687500	-45.21	-13.00	Vertical

---End of Test Report---