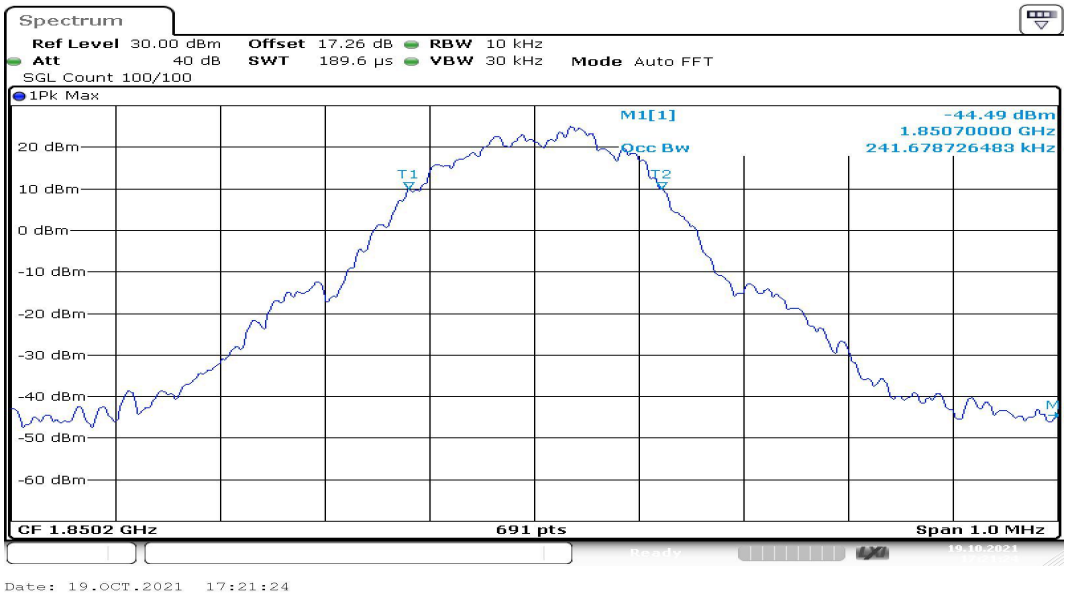
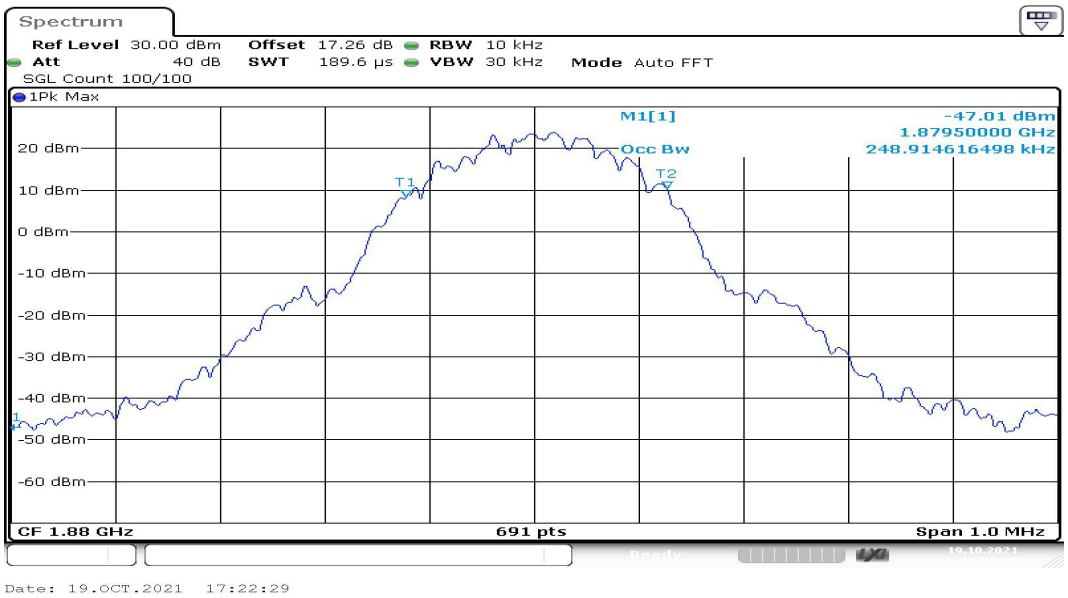
PCS1900

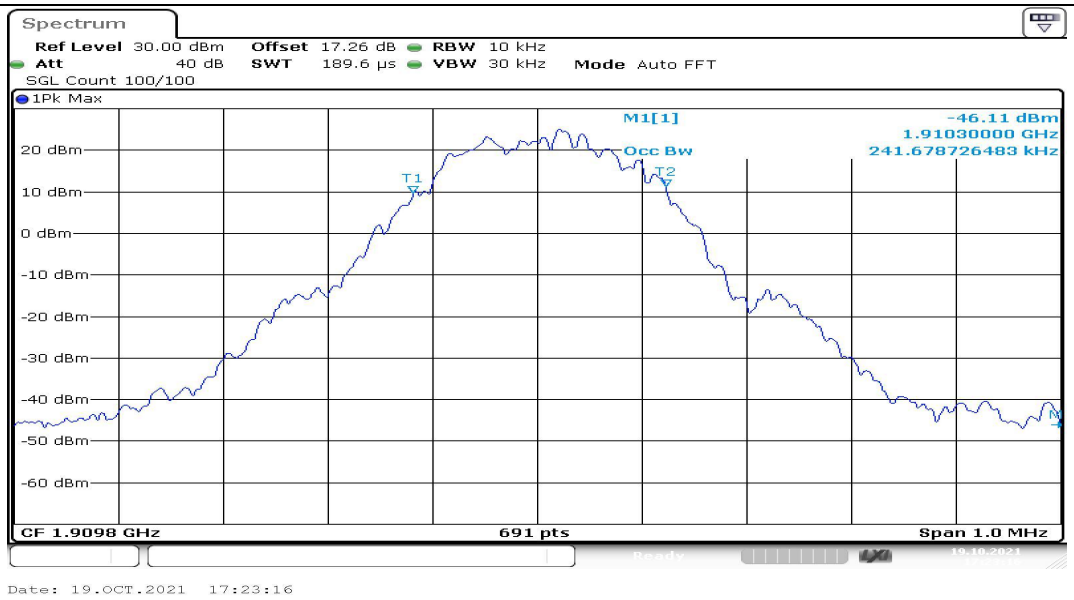
GSM MODE:



Channel 512



Channel 661

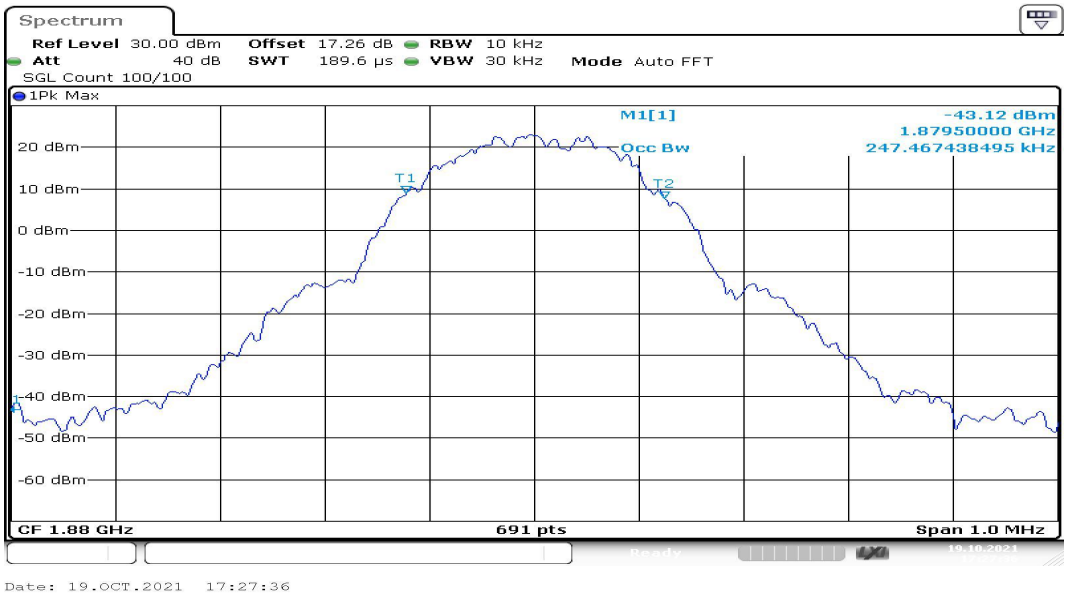


Channel 810

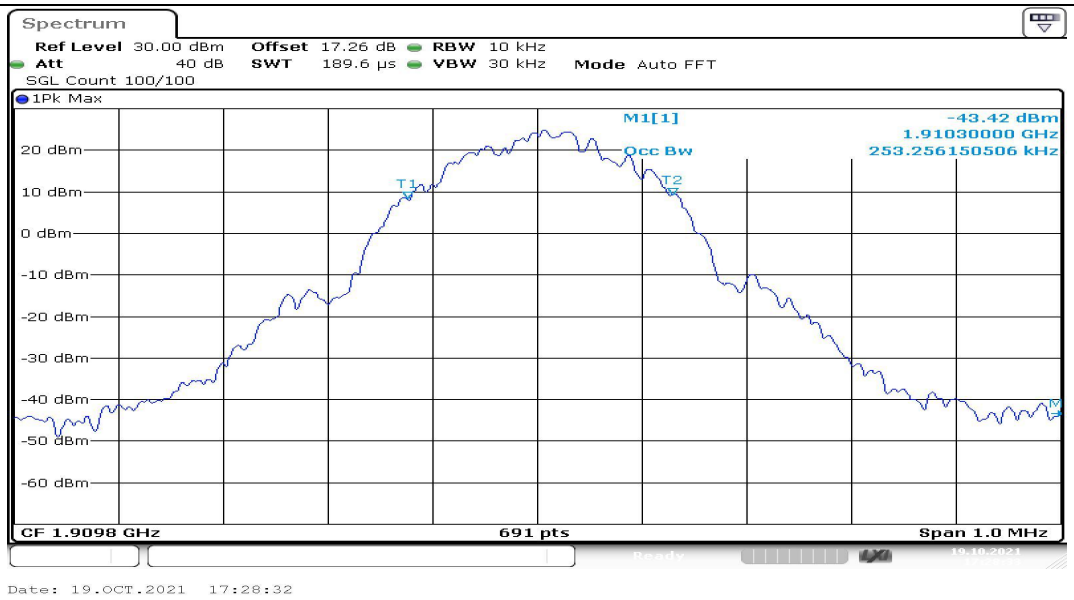
GPRS MODE:

/

Channel 512



Channel 661


Spectrum
Ref Level 30.00 dBm Offset 17.26 dB RBW 10 kHz
Att 40 dB SWT 189.6 µs VBW 30 kHz Mode Auto FFT
SGL Count 100/100
1Pk Max
M1[1] -43.42 dBm
1.91030000 GHz
Occ Bw 253.256150506 kHz
T1
T2
20 dBm
10 dBm
0 dBm
-10 dBm
-20 dBm
-30 dBm
-40 dBm
-50 dBm
-60 dBm
CF 1.9098 GHz
691 pts
Span 1.0 MHz
Date: 19.OCT.2021 17:28:32

Channel 810

3. Emission Bandwidth

PCS1900

GSM MODE:

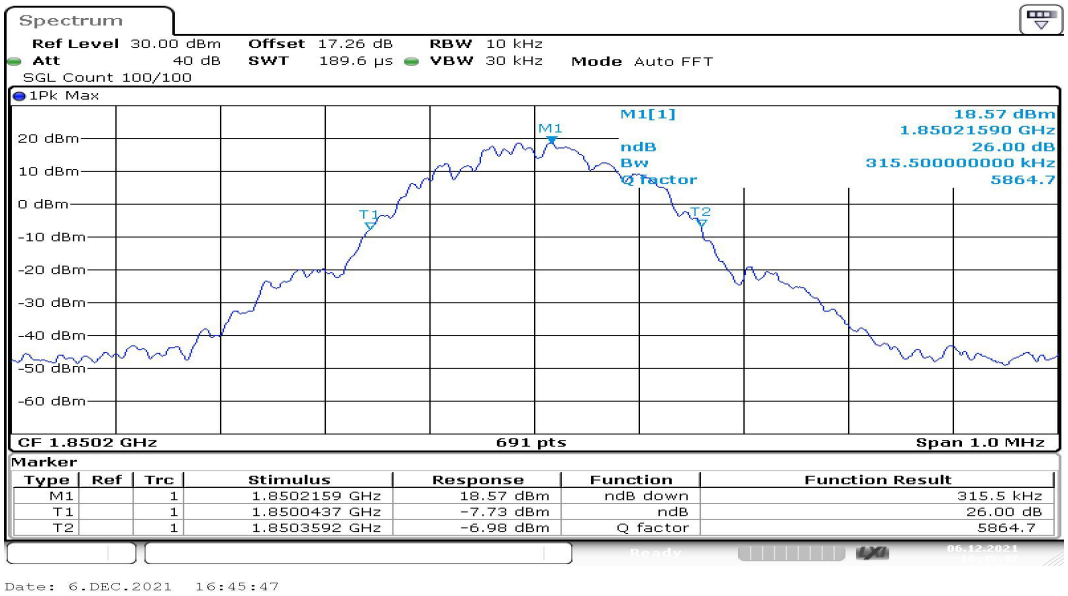
Carrier frequency (MHz)	Channel No.	Bandwidth of -26dB transmitter power(kHz)
1850.2	512	315.50
1880	661	311.10
1909.8	810	296.70

GPRS MODE:

Carrier frequency (MHz)	Channel No.	Bandwidth of -26dB (kHz)
1850.2	512	306.80
1880	661	296.70
1909.8	810	306.80

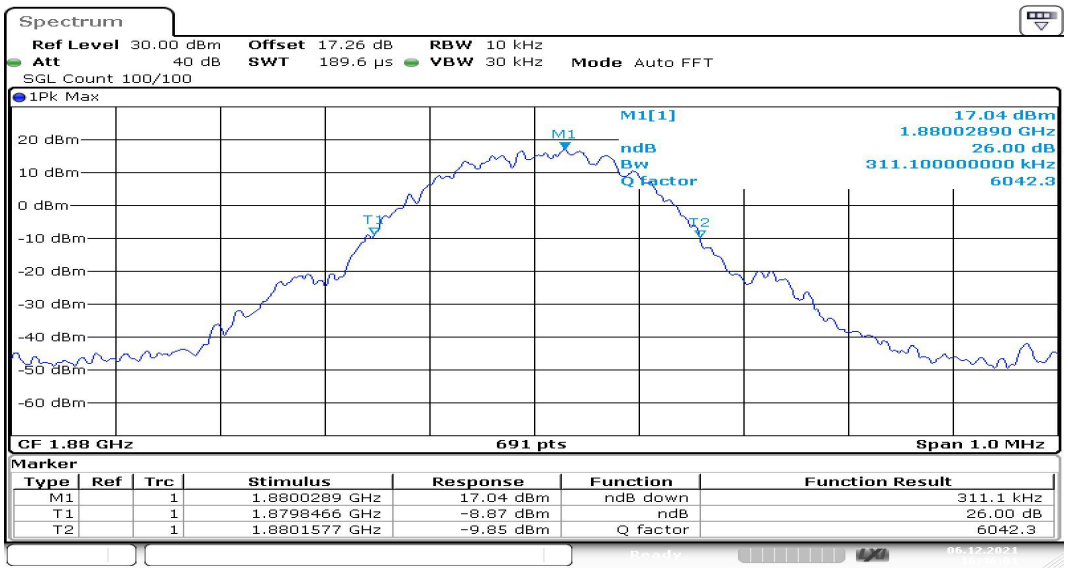
PCS1900

GSM MODE:



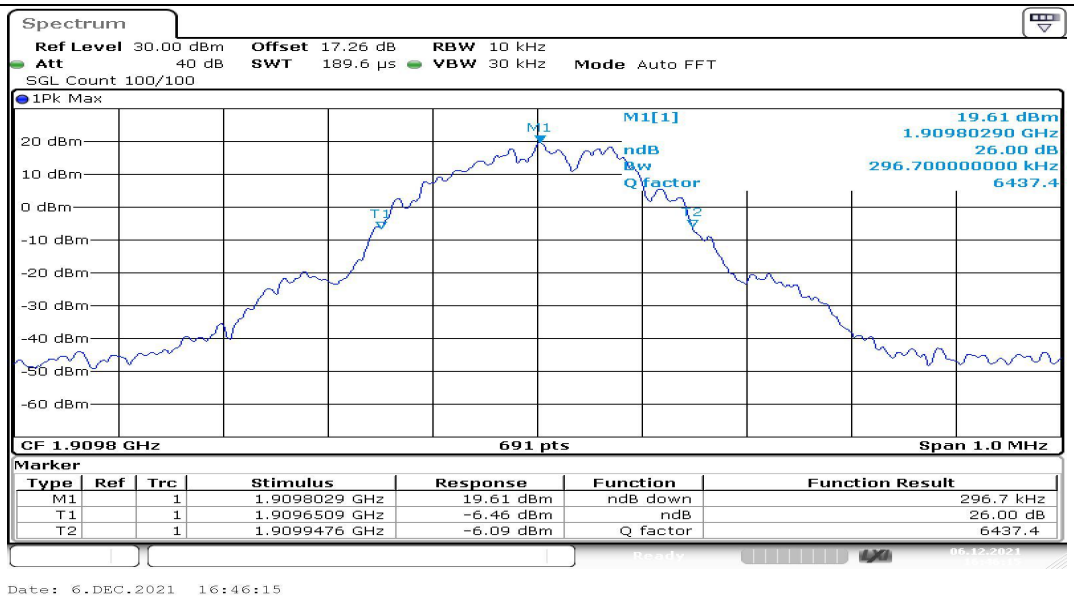
Date: 6.DEC.2021 16:45:47

Channel 512



Date: 6.DEC.2021 16:46:01

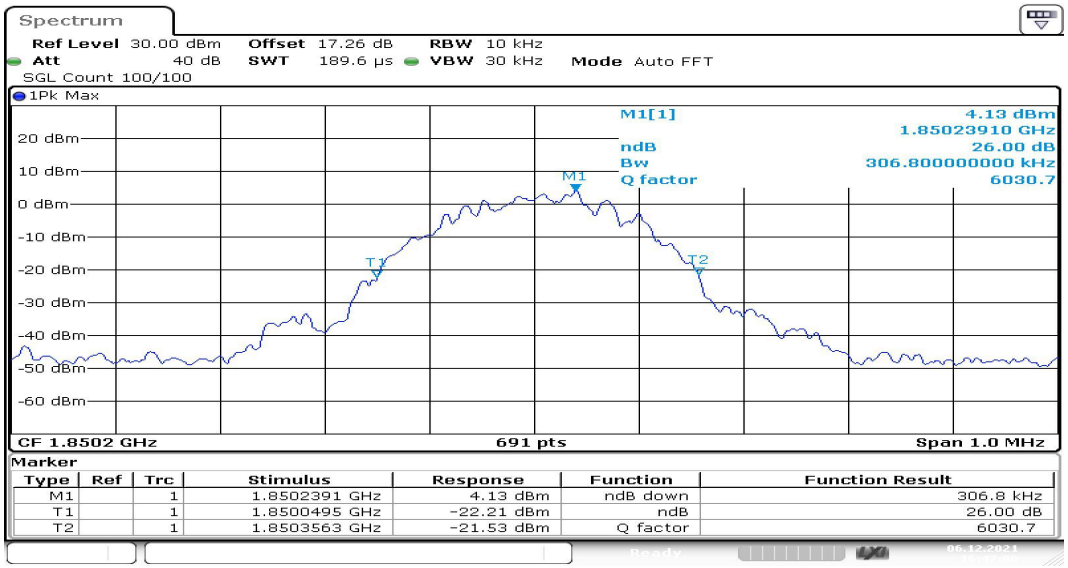
Channel 661



Date: 6.DEC.2021 16:46:15

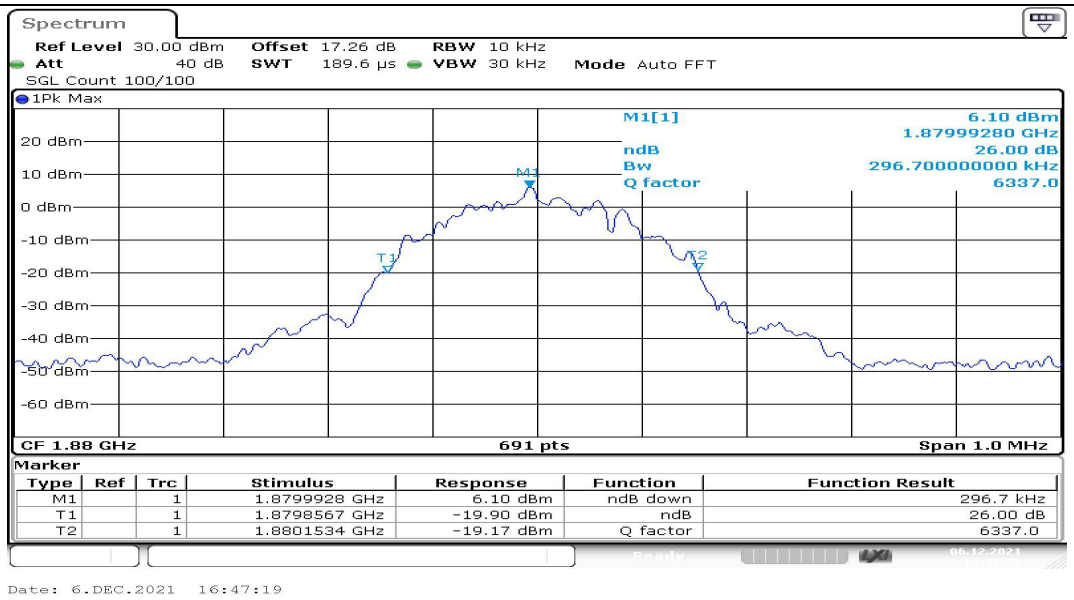
Channel 810

GPRS MODE:

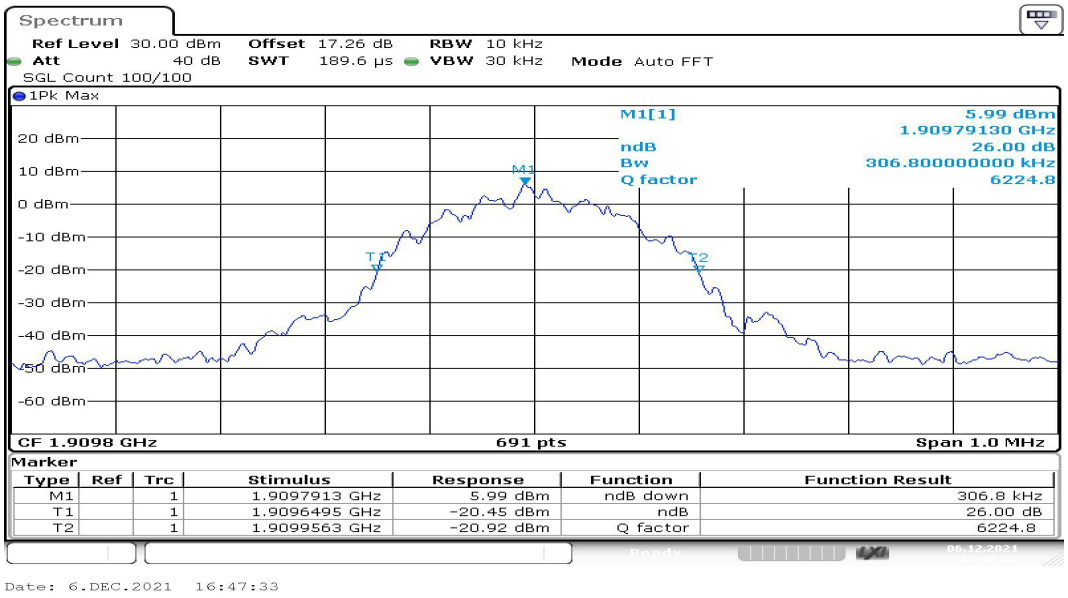


Date: 6.DEC.2021 16:47:06

Channel 512



Channel 661

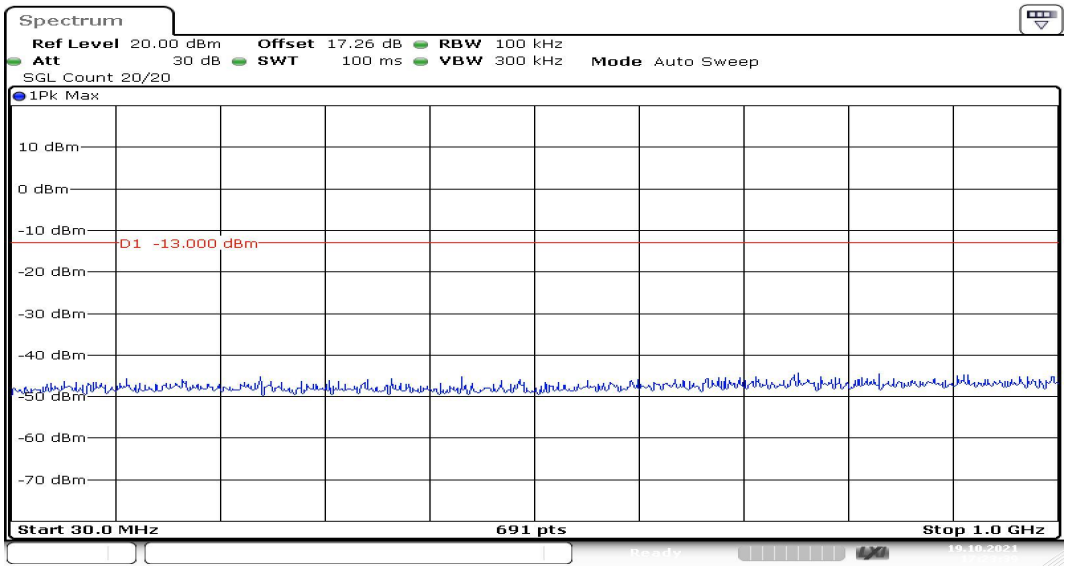


Channel 810

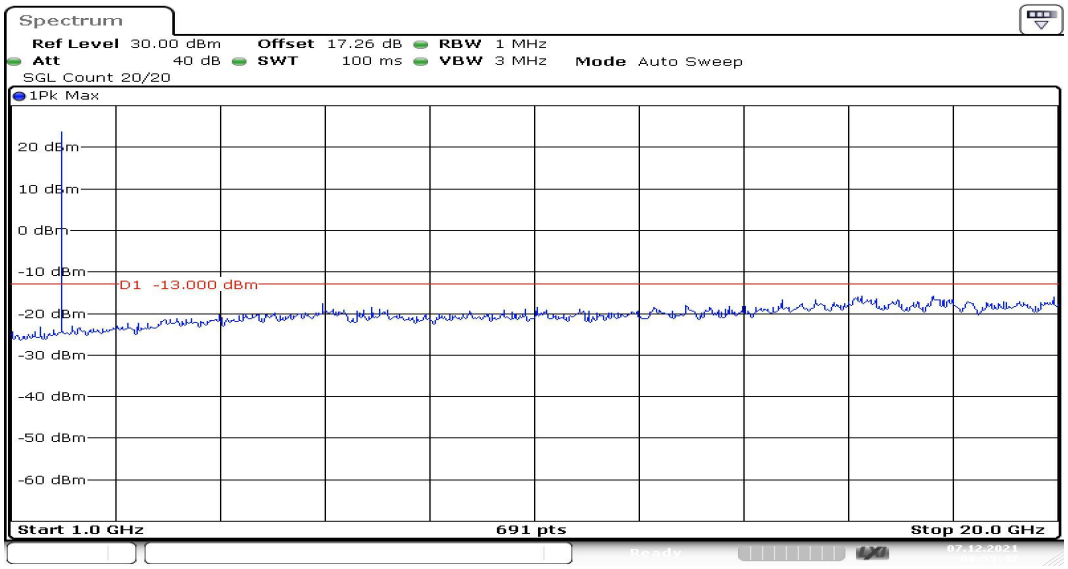
4. Spurious Emissions at antenna terminal

PCS1900

GSM MODE:

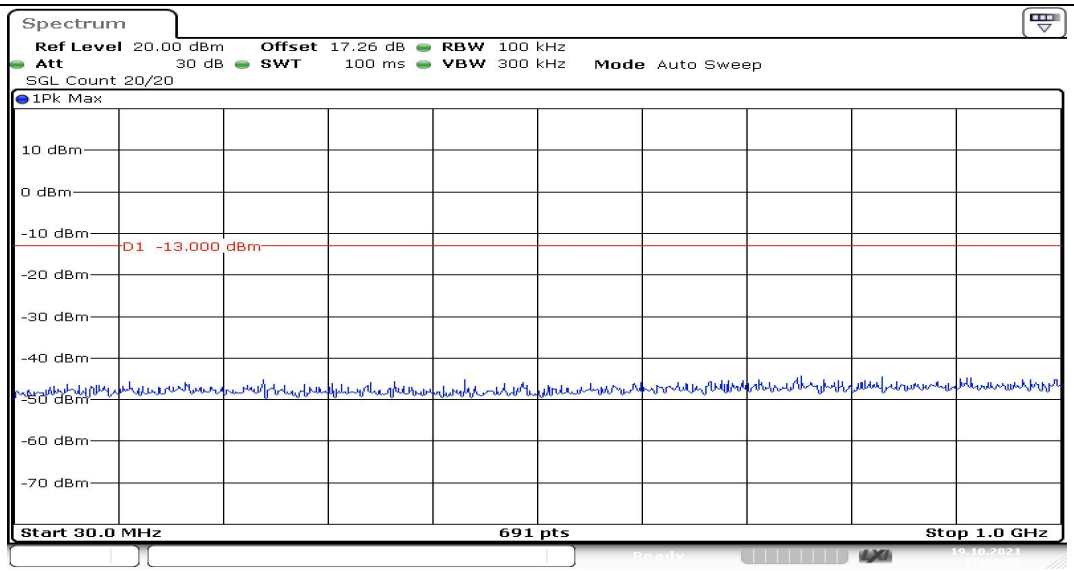


Date: 19.OCT.2021 17:23:39

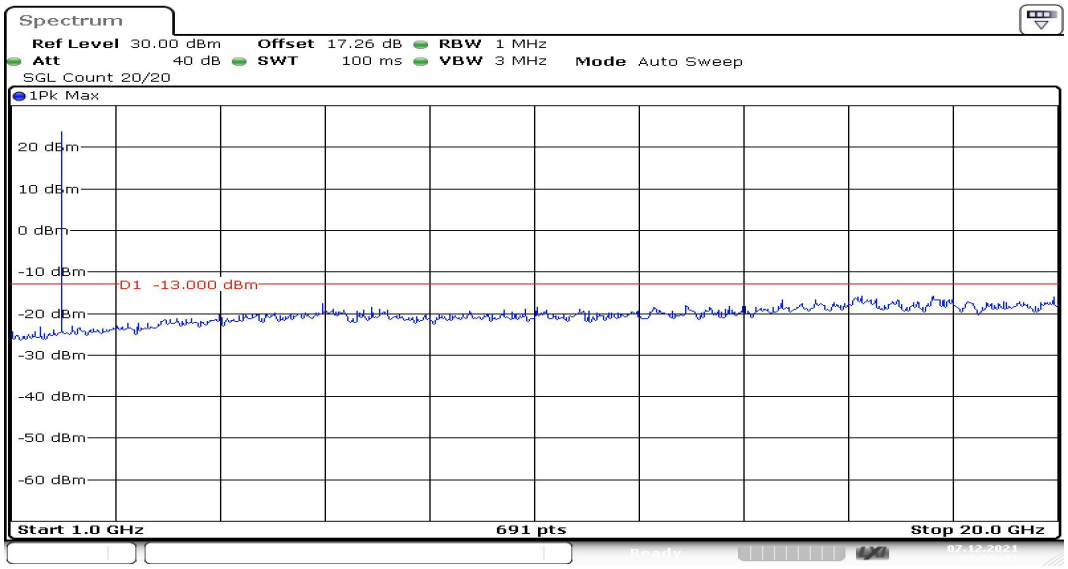


Date: 7.DEC.2021 08:55:47

Channel 512

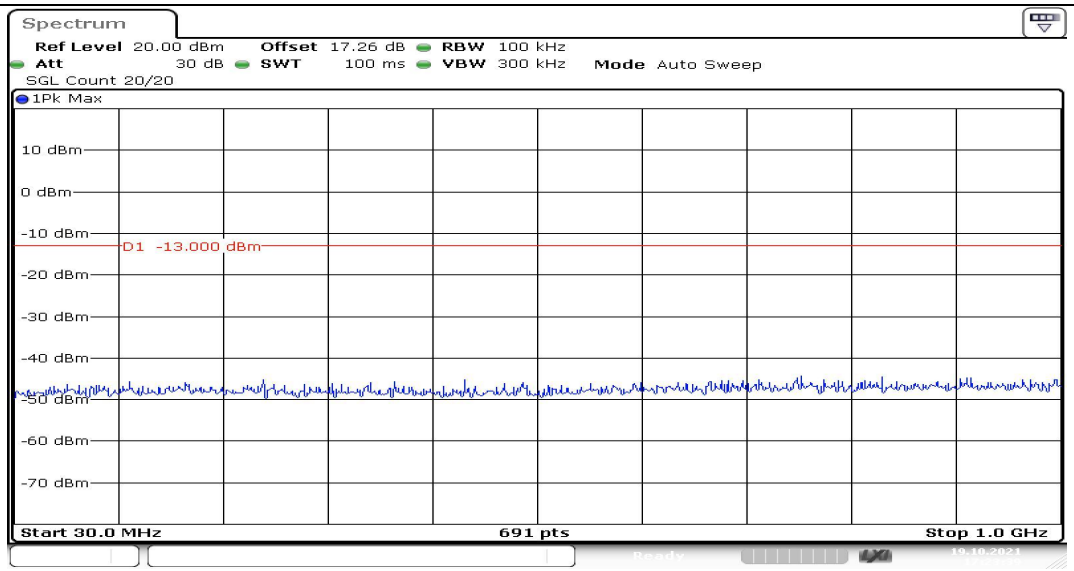


Date: 19.OCT.2021 17:23:39

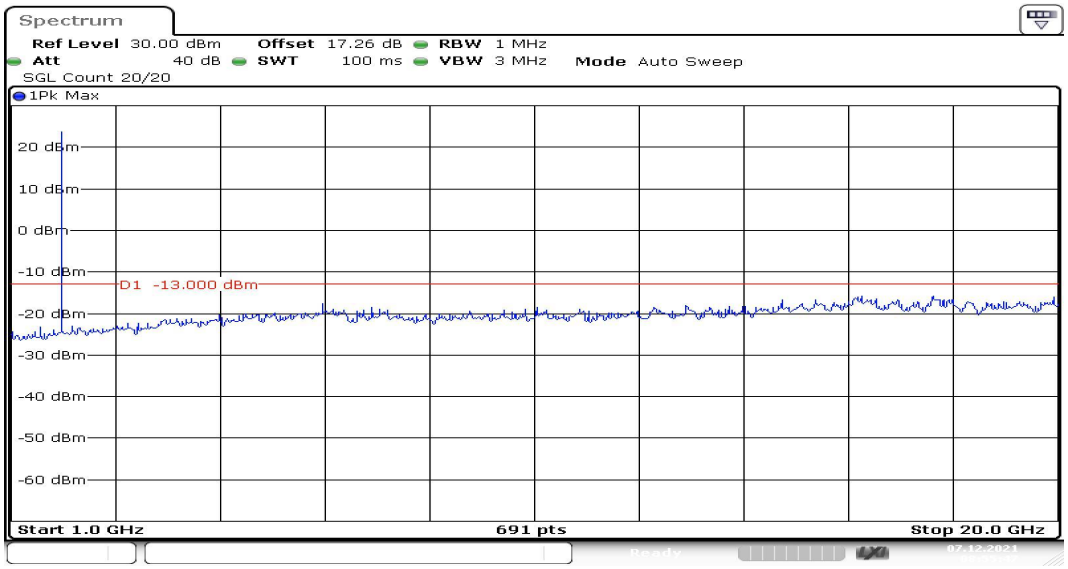


Date: 7.DEC.2021 08:55:47

Channel 661



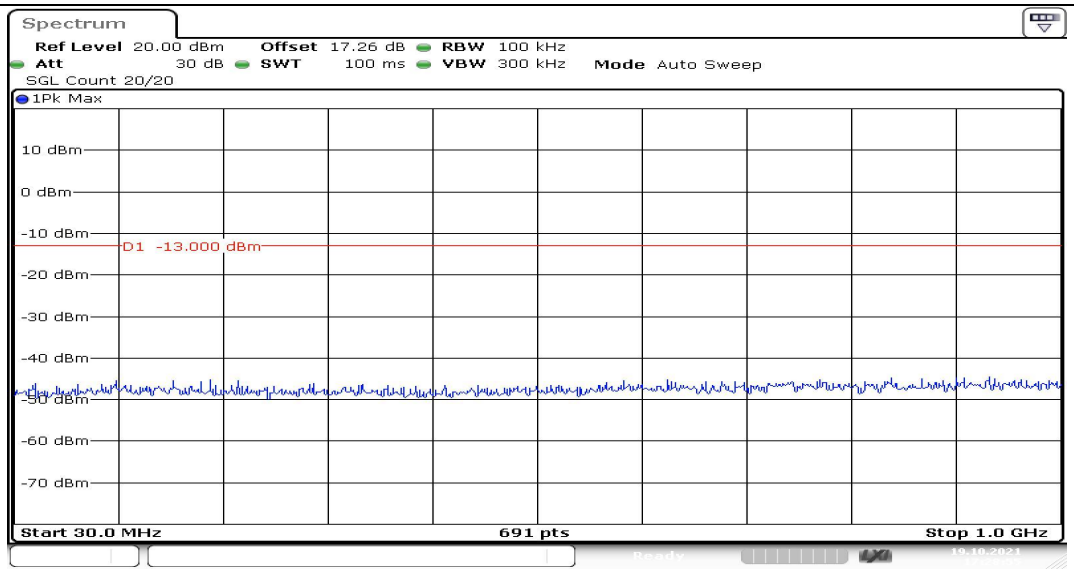
Date: 19.OCT.2021 17:23:39



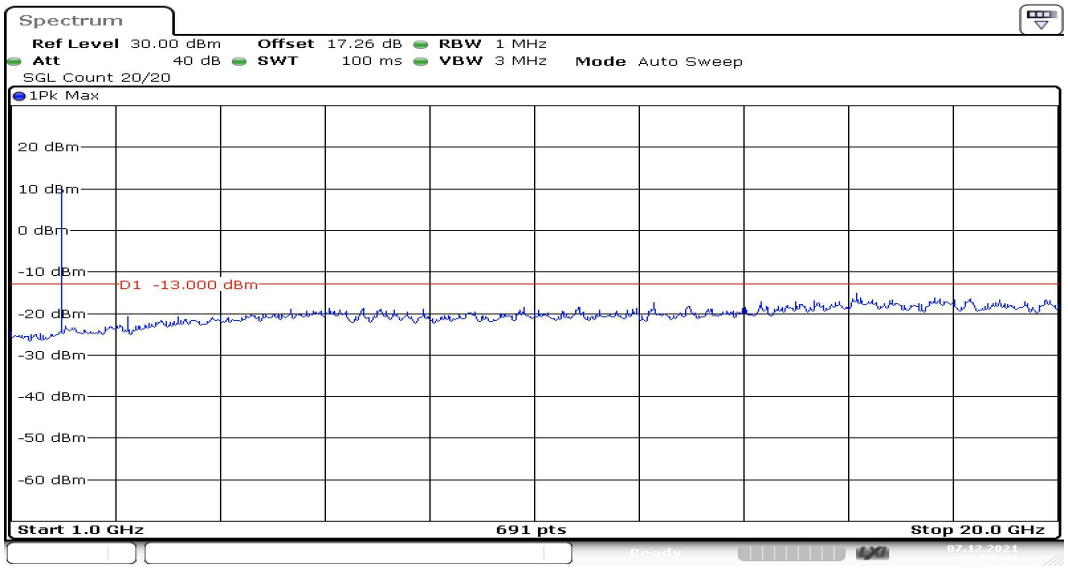
Date: 7.DEC.2021 08:55:47

Channel 810

GPRS MODE:

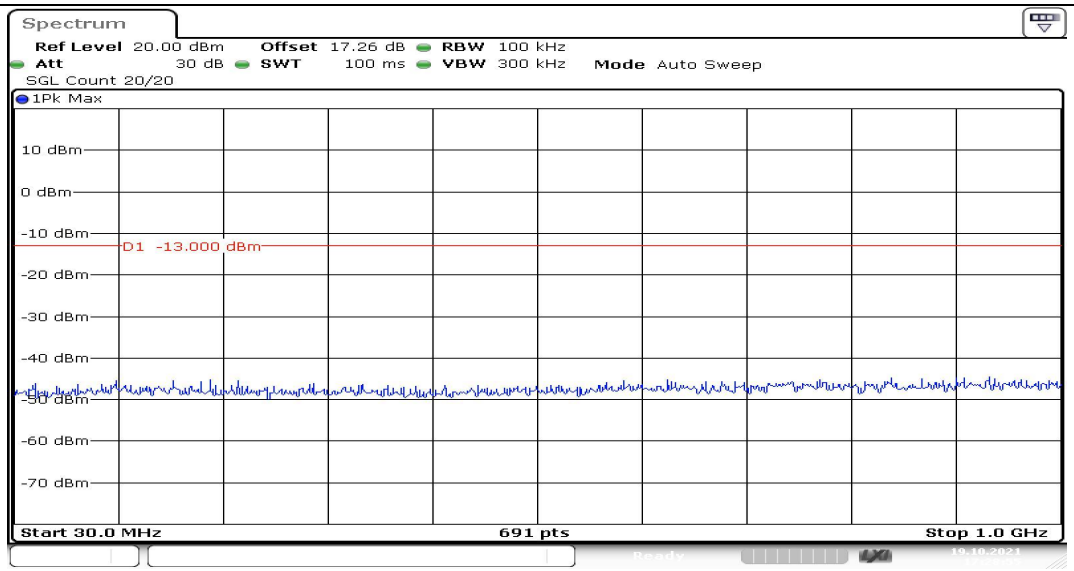


Date: 19.OCT.2021 17:28:55

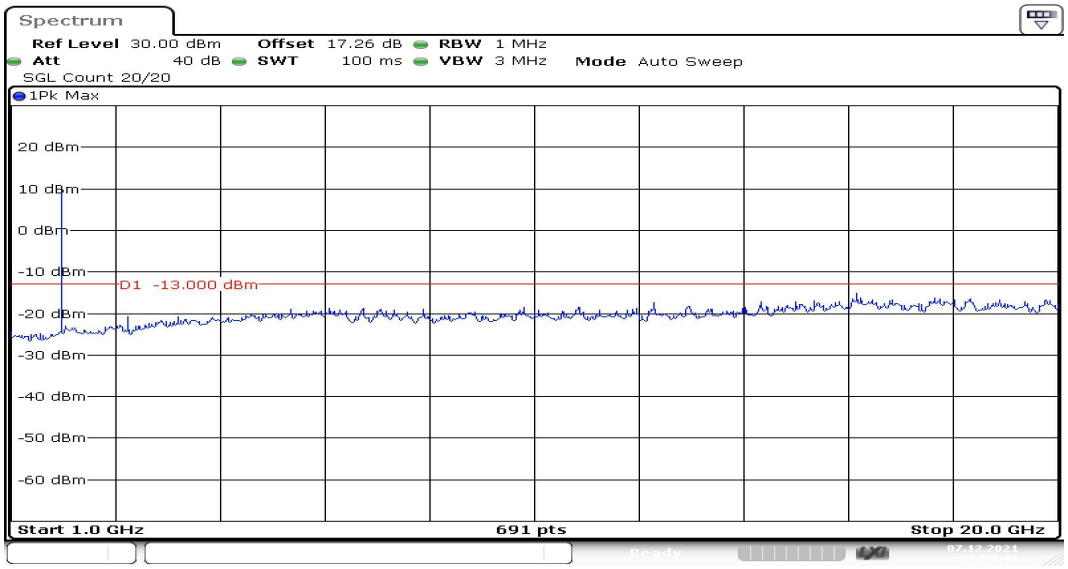


Date: 7.DEC.2021 08:59:47

Channel 512

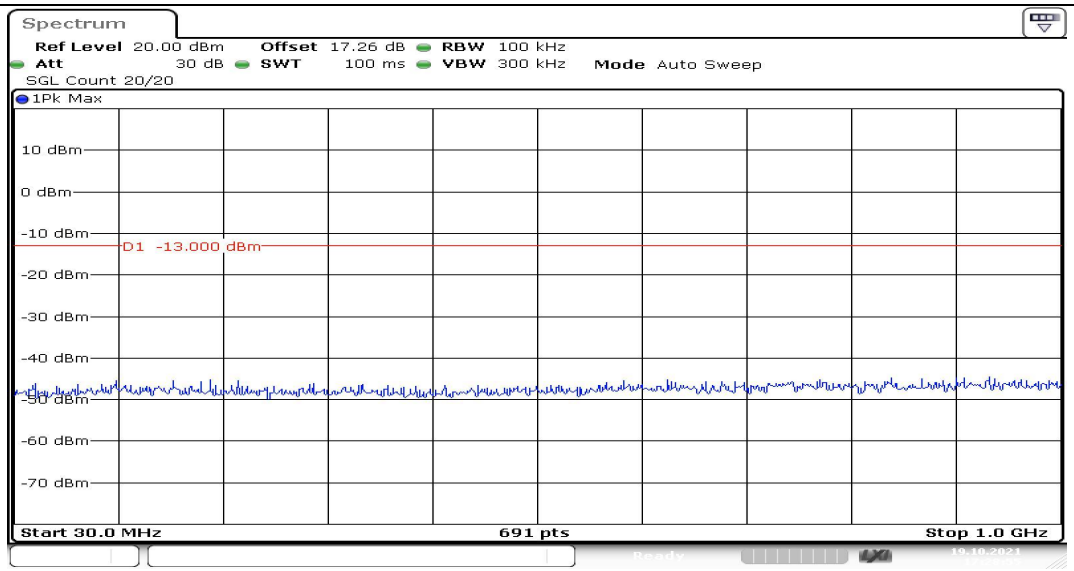


Date: 19.OCT.2021 17:28:55

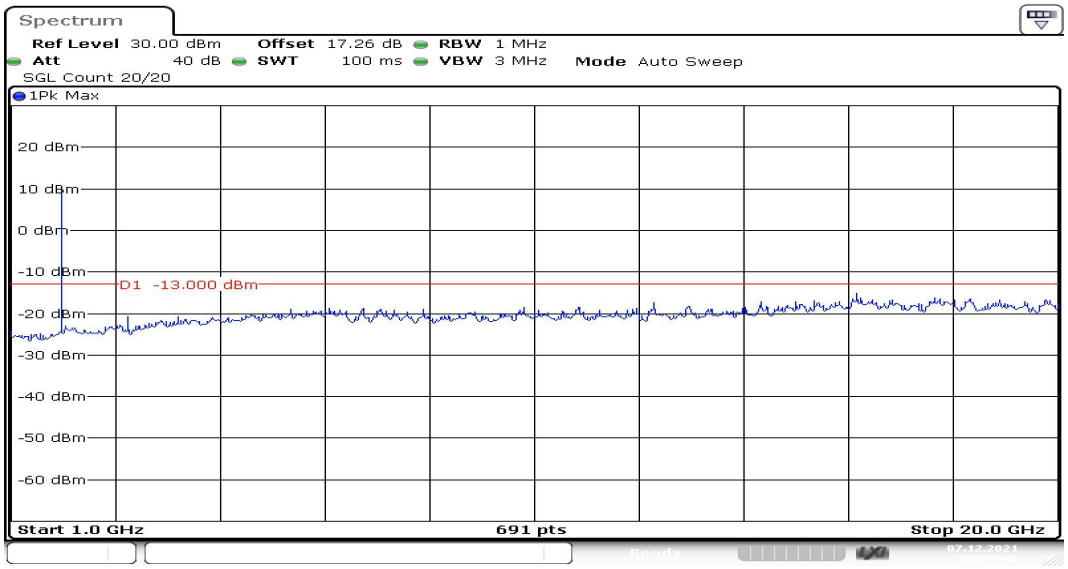


Date: 7.DEC.2021 08:59:47

Channel 661



Date: 19.OCT.2021 17:28:55



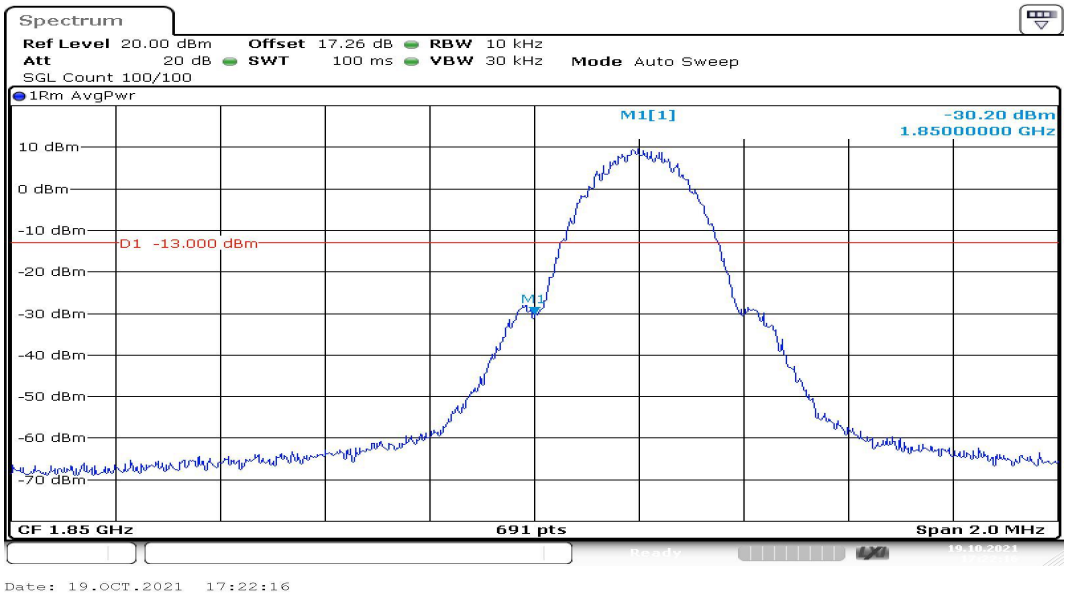
Date: 7.DEC.2021 08:59:47

Channel 810

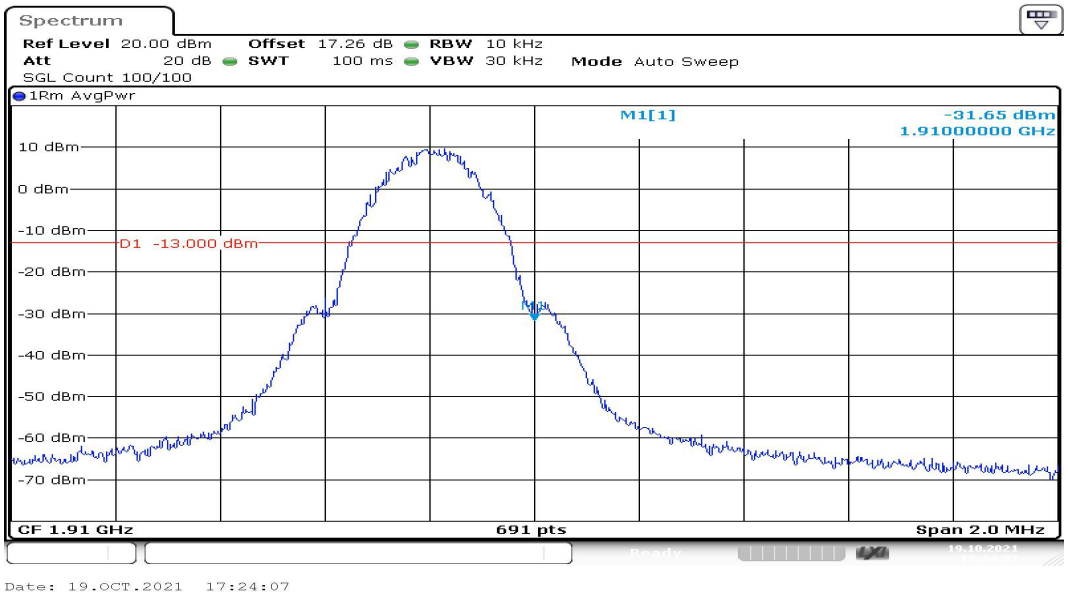
5. Band Edges Compliance

PCS1900

GSM MODE:

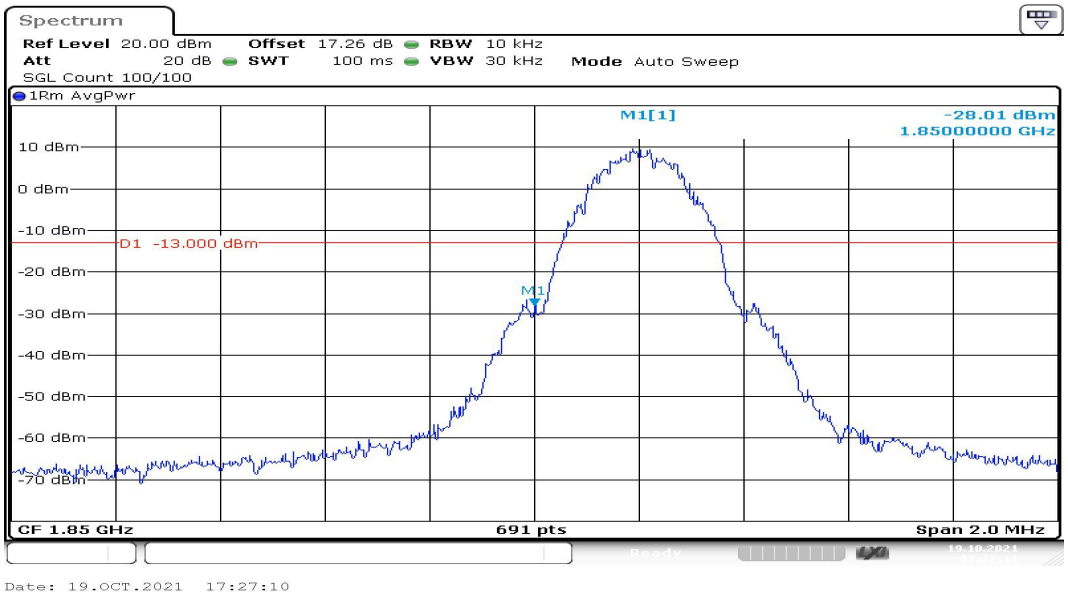


Channel 512

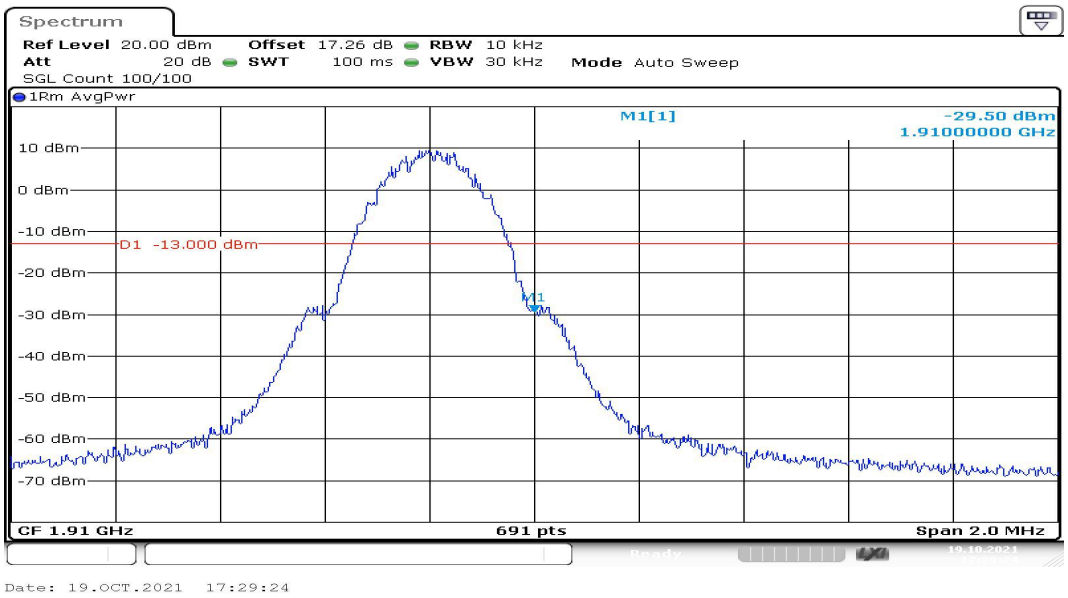


Channel 810

GPRS MODE:



Channel 512



Channel 810

6. Frequency Stability

PCS1900

GSM MODE:

Temperature(°C)	Test Result (ppm)@NV		
	Channel 512	Channel 661	Channel 810
-30	-0.001	-0.013	-0.012
-20	0.002	-0.020	-0.014
-10	-0.005	-0.016	-0.010
0	0.007	-0.012	-0.014
+10	-0.006	-0.005	-0.002
+30	-0.005	-0.022	-0.012
+40	-0.006	-0.019	-0.017
+50	-0.002	-0.017	-0.012
Voltage	Test Result (ppm)@NT		
	Channel 512	Channel 661	Channel 810
LV	-0.004	-0.013	-0.012
HV	-0.005	-0.017	-0.014

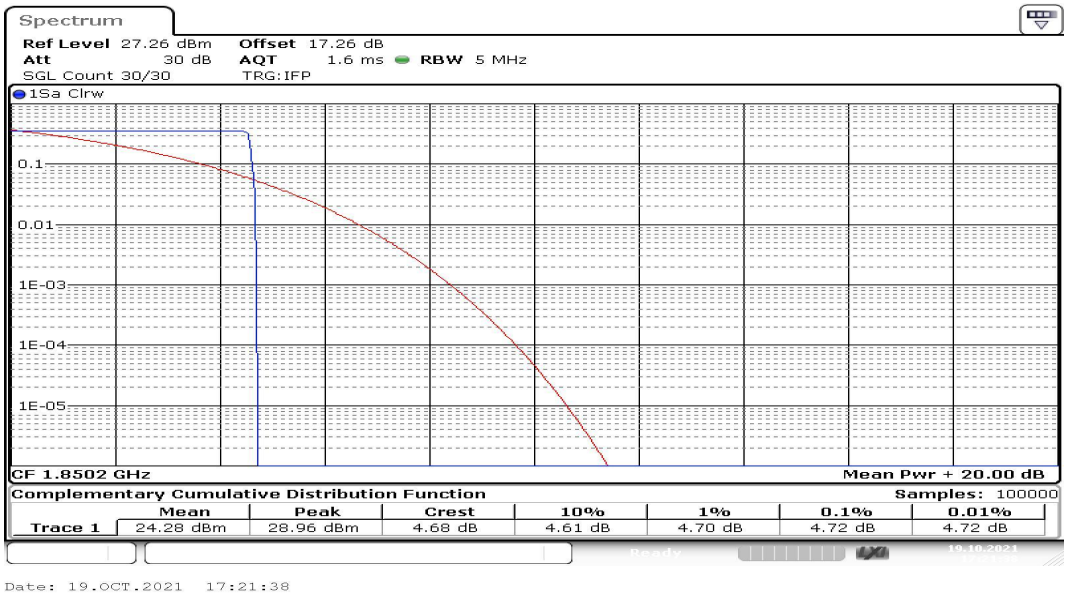
GPRS MODE:

Temperature(°C)	Test Result (ppm)@NV		
	Channel 512	Channel 661	Channel 810
-30	0.003	0.001	0.001
-20	0.009	0.005	0.003
-10	0.000	0.002	0.010
0	0.007	0.003	0.000
+10	0.007	0.002	0.002
+30	0.016	0.017	0.013
+40	0.009	0.003	0.004
+50	0.001	0.000	0.000
Voltage	Test Result (ppm)@NT		
	Channel 512	Channel 661	Channel 810
LV	0.019	0.012	-0.002
HV	0.009	0.021	0.014

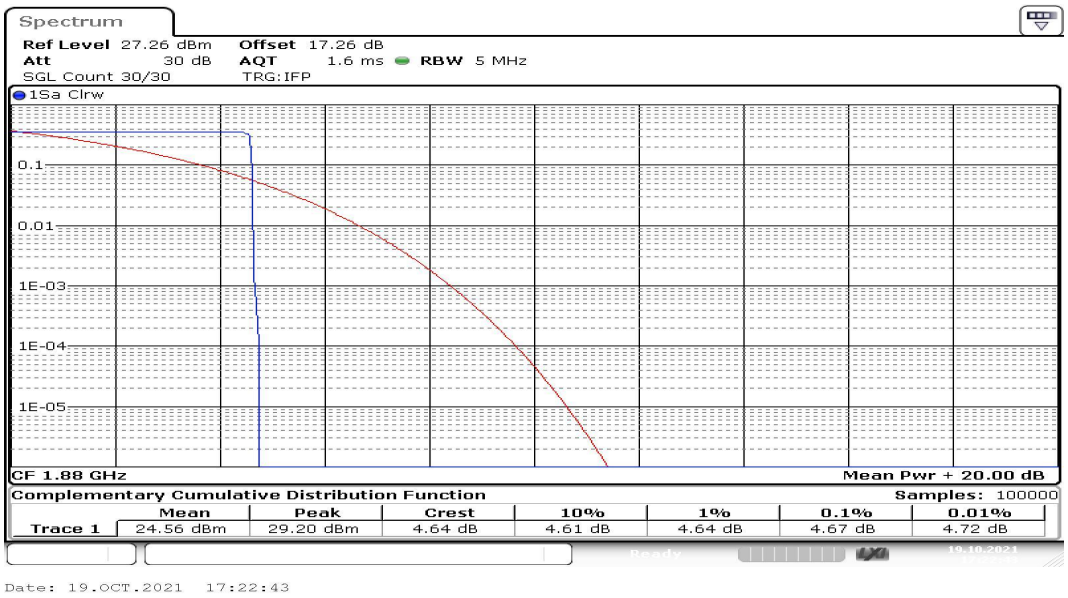
7. Peak-Average Ratio

PCS1900

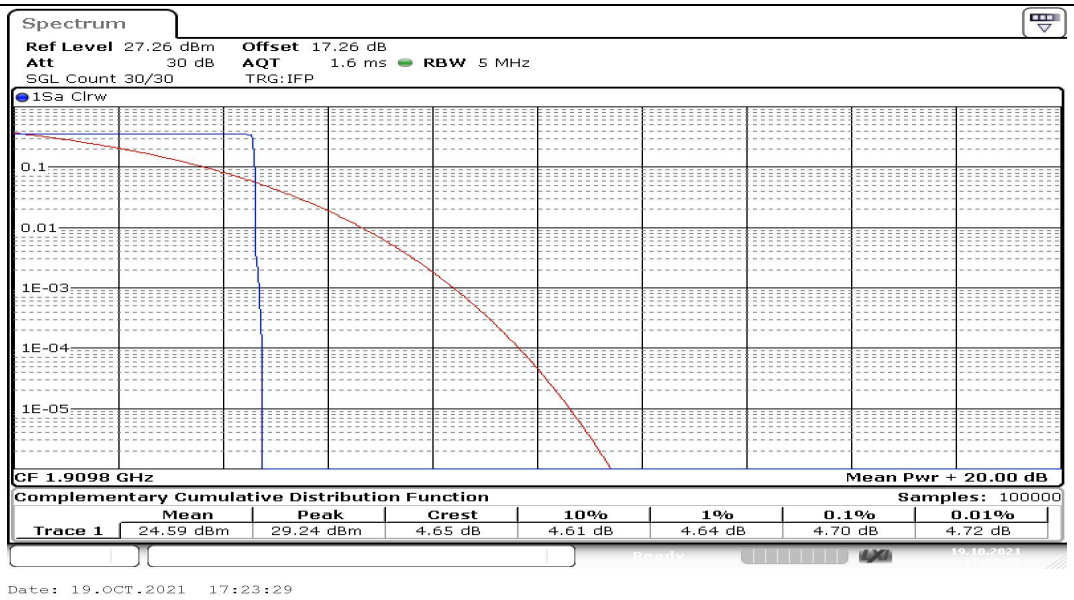
GSM MODE:



Channel 512



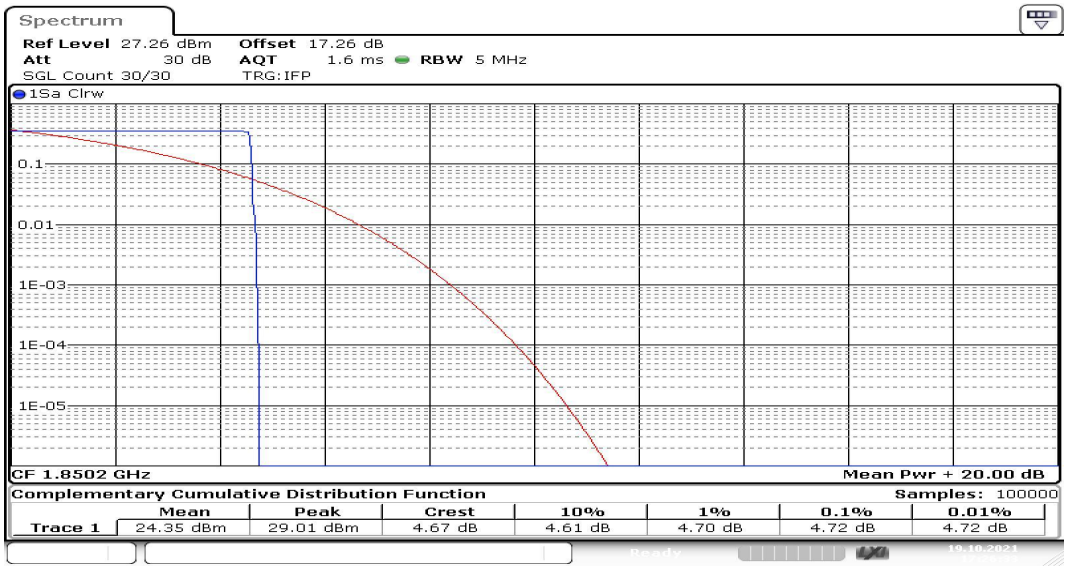
Channel 661



Date: 19.OCT.2021 17:23:29

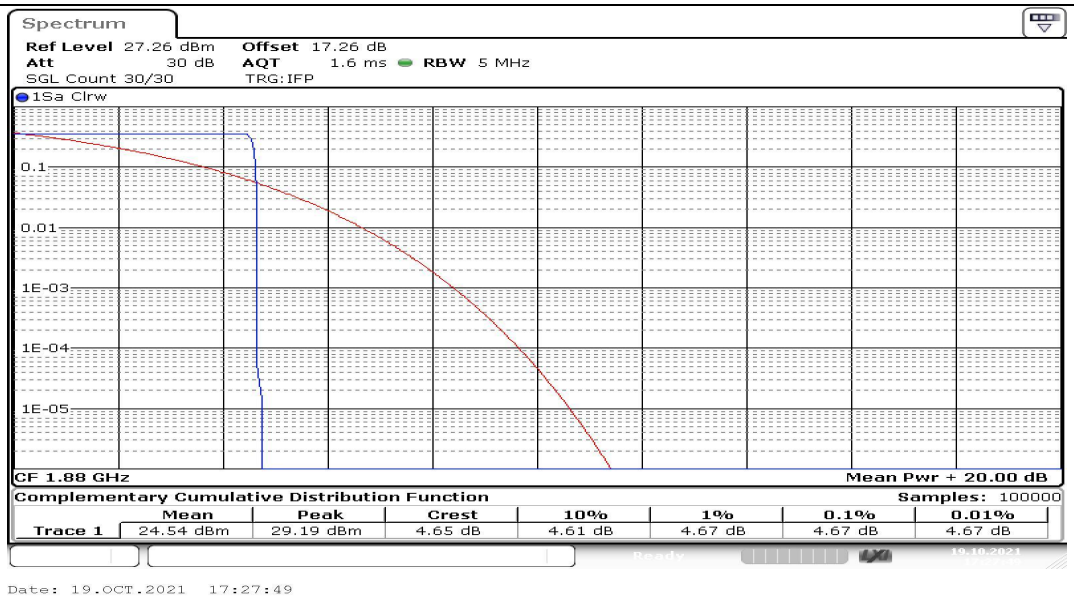
Channel 810

GPRS MODE:

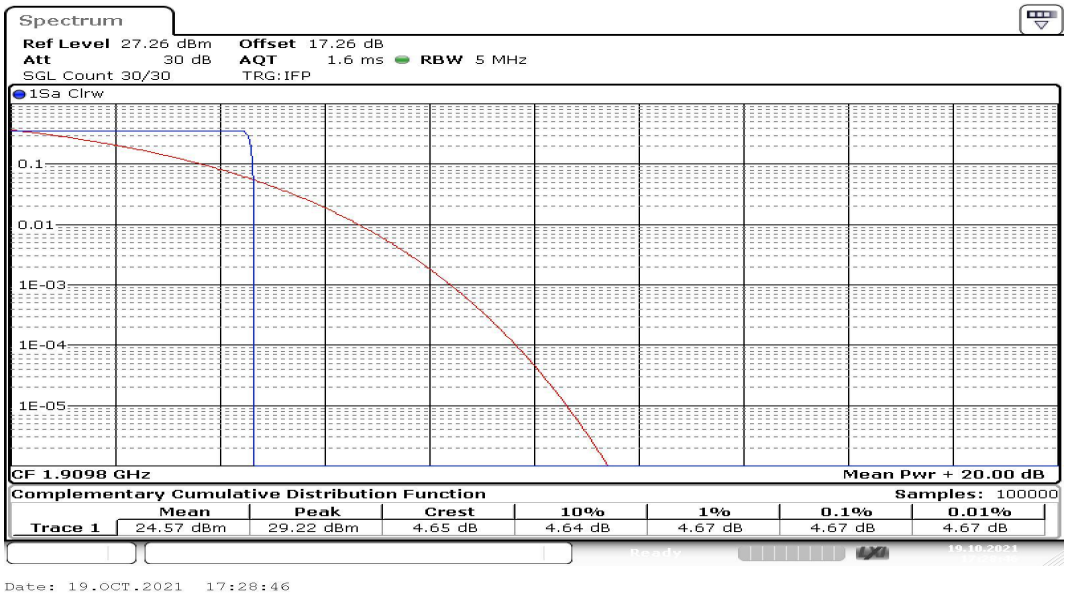


Date: 19.OCT.2021 17:26:33

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	29.72	25.72	0.373
1880	661	29.94	25.94	0.393
1909.8	810	29.95	25.95	0.394

GPRS Measured Power:

Carrier frequency (MHz)	Channel No.	TX Mode	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP (W)
1850.2	512	4Down1Up	29.85	25.85	0.385
1880	661		29.94	25.94	0.393
1909.8	810		29.93	25.93	0.392
1850.2	512	3Down2Up	28.12	24.12	0.258
1880	661		27.70	23.70	0.234
1909.8	810		27.68	23.68	0.233
1850.2	512	2Down3Up	26.04	22.04	0.160
1880	661		25.57	21.57	0.144
1909.8	810		25.48	21.48	0.141
1850.2	512	1Down4Up	24.47	20.47	0.111
1880	661		24.01	20.01	0.100
1909.8	810		23.89	19.89	0.097

APPENDIX B – TEST DATA OF RADIATED EMISSION

Radiated Spurious Emissions

850 Test result:

GSM/GPRS MODE Channel 128:

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
1650.31	-52.79	-13	Vertical
1665.88	-51.12	-13	Vertical
2534.87	-43.39	-13	Vertical
2574.45	-42.67	-13	Vertical
8963.07	-39.62	-13	Vertical
9969.23	-35.37	-13	Vertical

GSM/GPRS MODE Channel 189:

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
1648.32	-52.08	-13	Vertical
1666.67	-51.07	-13	Vertical
2535.14	-44.12	-13	Horizontal
2576.73	-43.00	-13	Vertical
8963.15	-39.89	-13	Vertical
9968.38	-35.36	-13	Vertical

GSM/GPRS MODE Channel 251:

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
1648.11	-52.18	-13	Vertical
1668.12	-51.73	-13	Vertical
2535.36	-43.29	-13	Vertical
2576.19	-42.66	-13	Horizontal
8963.30	-39.87	-13	Vertical
9968.41	-35.79	-13	Vertical

1900 Test result:

GSM/GPRS MODE Channel 512

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
2455.41	-52.97	-13	Vertical
2781.78	-51.37	-13	Vertical
3728.97	-44.30	-13	Vertical
6679.00	-43.52	-13	Vertical
9962.91	-39.93	-13	Vertical
17823.64	-35.67	-13	Vertical

GSM/GPRS MODE Channel 661:

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
2453.86	-52.59	-13	Vertical
2779.07	-51.43	-13	Vertical
3729.32	-44.27	-13	Vertical
6678.27	-43.62	-13	Vertical
9962.31	-40.35	-13	Horizontal
17820.61	-35.22	-13	Vertical

GSM/GPRS MODE Channel 810:

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
2454.75	-52.89	-13	Vertical
2778.22	-51.30	-13	Vertical
3727.51	-44.24	-13	Horizontal
6677.78	-43.17	-13	Horizontal
9961.98	-39.50	-13	Vertical
17823.44	-35.69	-13	Vertical

---End of Test Report---