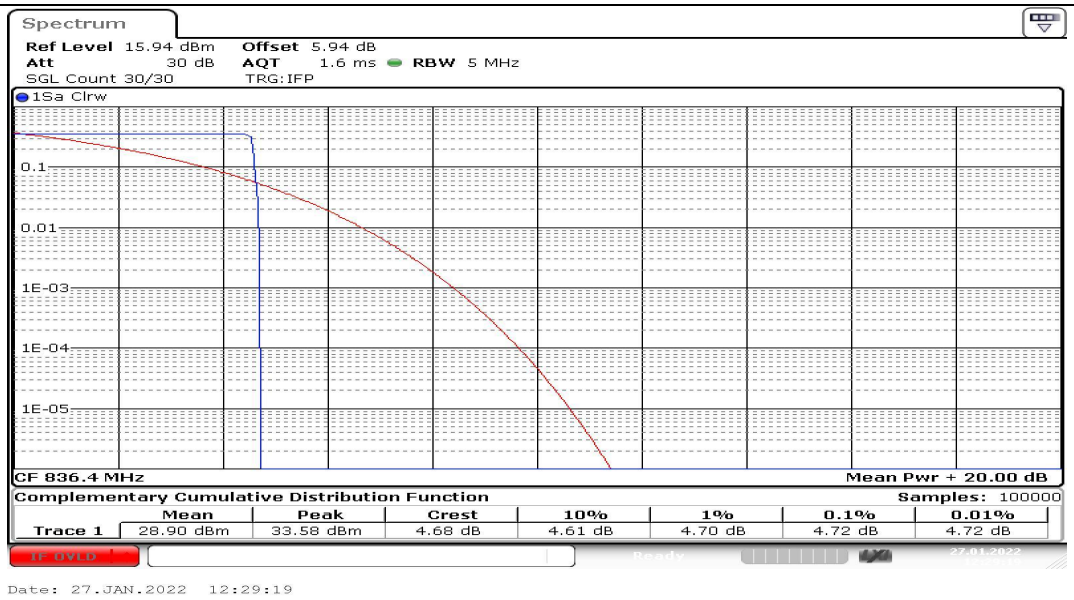
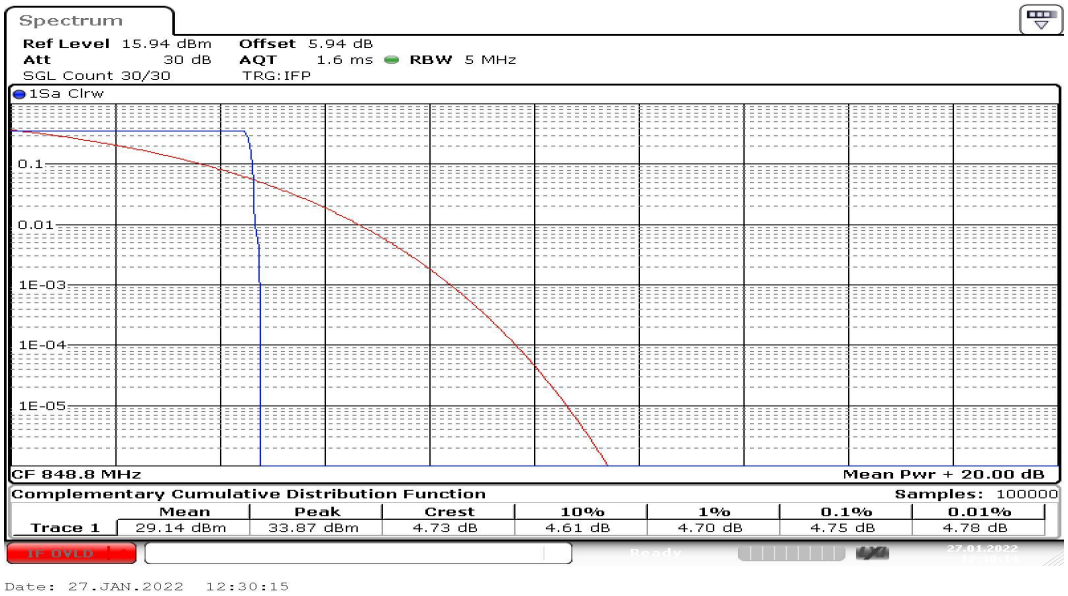


Channel 189



Channel 251

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	31.77	28.72	0.745
836.4	189	31.43	28.38	0.689
848.8	251	31.87	28.82	0.762

GPRS Measured Power:

Carrier frequency (MHz)	Channel No.	TX Mode	Conducted Power (dBm)	ERP/EIRP (dBm)	ERP/EIRP (W)
824.2	128	4Down1Up	31.84	28.79	0.757
836.4	189		31.38	28.33	0.681
848.8	251		31.98	28.93	0.782
824.2	128	3Down2Up	29.79	26.74	0.472
836.4	189		29.12	26.07	0.405
848.8	251		29.33	26.28	0.425
824.2	128	2Down3Up	27.82	24.77	0.300
836.4	189		27.04	23.99	0.251
848.8	251		27.31	24.26	0.267
824.2	128	1Down4Up	26.46	23.41	0.219
836.4	189		25.70	22.65	0.184
848.8	251		25.93	22.88	0.194

GSM1900 Result

1. RF Power Output

PCS1900

GSM Measured Power:

Carrier frequency (MHz)	Channel No.	RF Power Output (dBm)
1850.2	512	28.28
1880	661	28.34
1909.8	810	28.93

GPRS Measured Power:

Carrier frequency (MHz)	Channel No.	TX Mode	RF Power Output (dBm)
1850.2	512	4Down1Up	28.68
1880	661		28.44
1909.8	810		28.93
1850.2	512	3Down2Up	26.06
1880	661		25.92
1909.8	810		26.60
1850.2	512	2Down3Up	24.21
1880	661		23.97
1909.8	810		24.62
1850.2	512	1Down4Up	22.83
1880	661		22.80
1909.8	810		23.30

2. Occupied Bandwidth

PCS1900

GSM MODE:

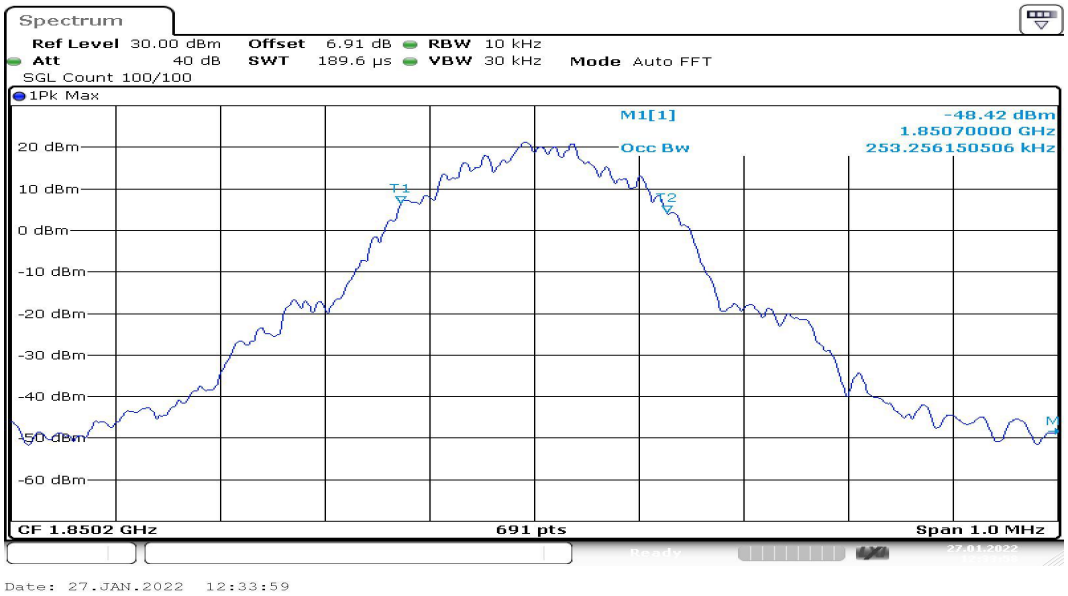
Carrier frequency (MHz)	Channel No.	Bandwidth of 99% Power (kHz)
1850.2	512	253.26
1880	661	244.57
1909.8	810	253.26

GPRS MODE:

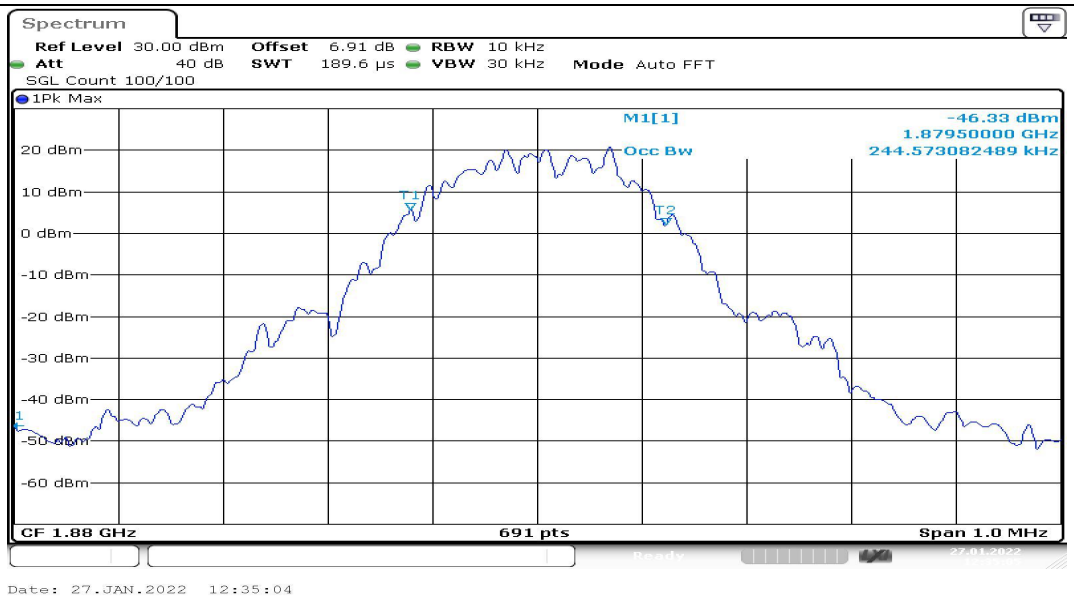
Carrier frequency (MHz)	Channel No.	Bandwidth of 99% Power (kHz)
1850.2	512	253.26
1880	661	244.57
1909.8	810	244.57

PCS1900

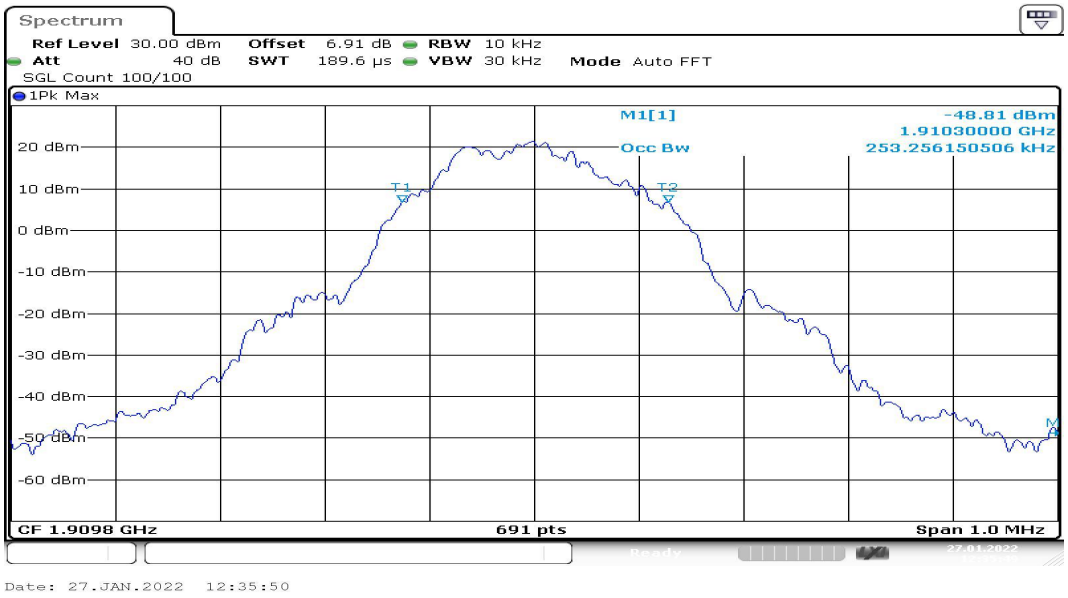
GSM MODE:



Channel 512

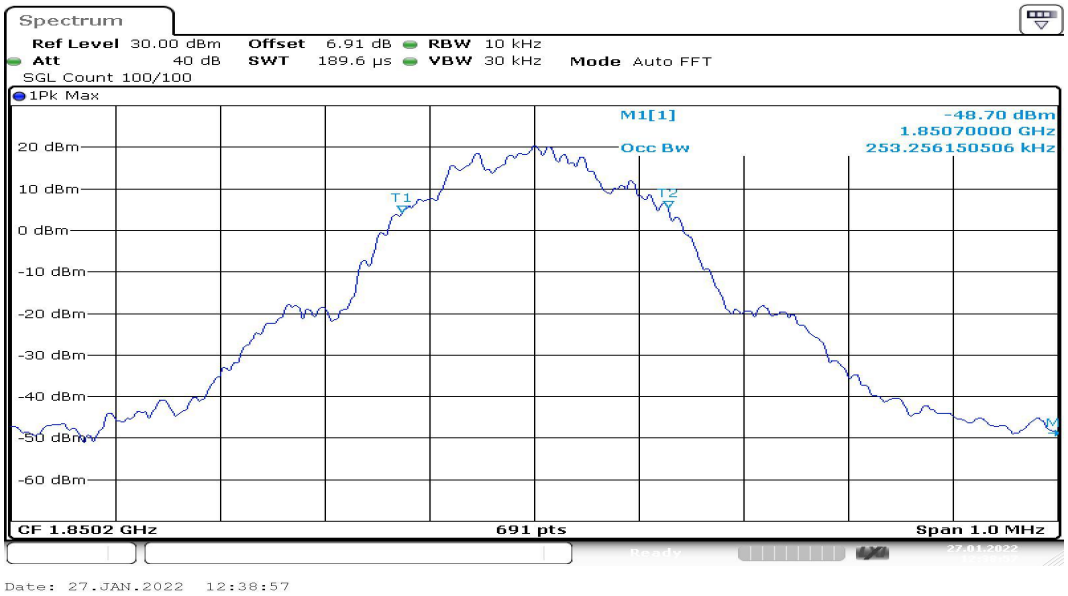


Channel 661

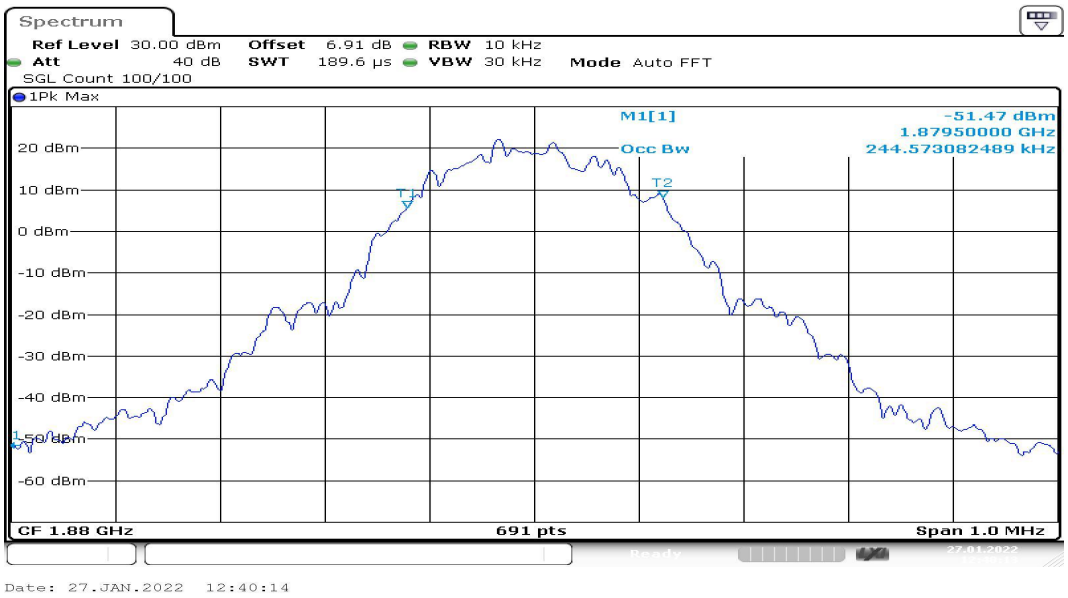


Channel 810

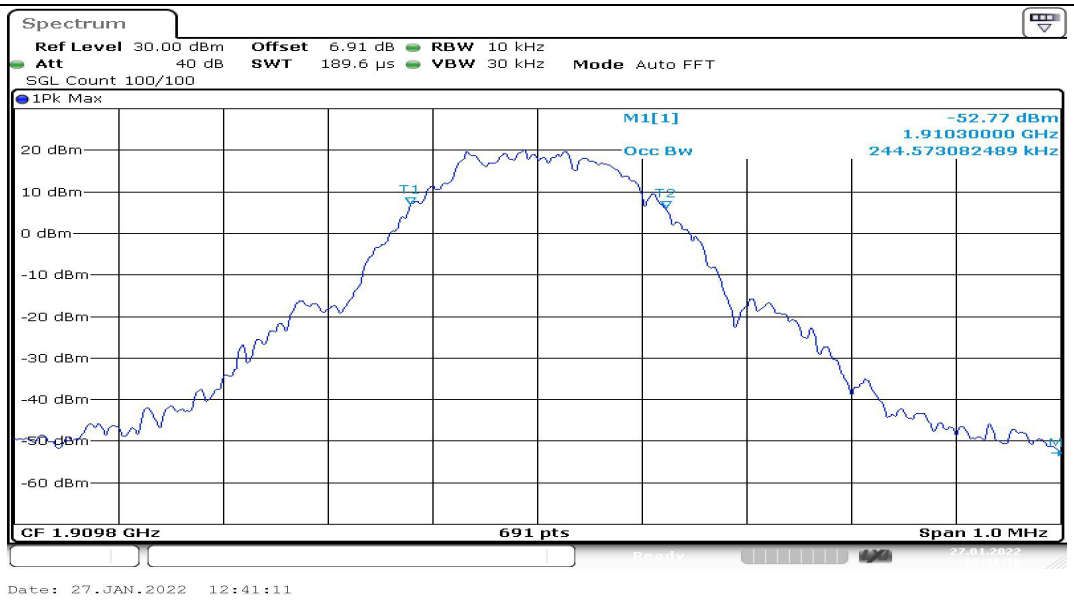
GPRS MODE:



Channel 512



Channel 661


Spectrum
Ref Level 30.00 dBm Offset 6.91 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] -52.77 dBm
1.91030000 GHz
Occ Bw 244.573082489 kHz
20 dBm
10 dBm
0 dBm
-10 dBm
-20 dBm
-30 dBm
-40 dBm
-50 dBm
-60 dBm
T1
T2
CF 1.9098 GHz
691 pts
Span 1.0 MHz
Date: 27.JAN.2022 12:41:11

Channel 810

3. Emission Bandwidth

PCS1900

GSM MODE:

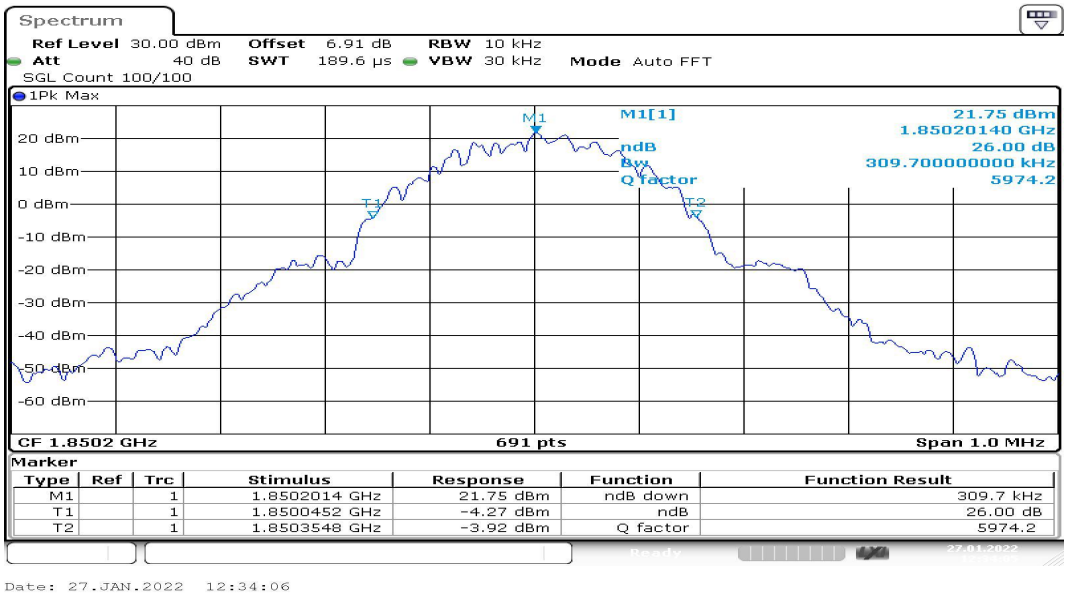
Carrier frequency (MHz)	Channel No.	Bandwidth of -26dB transmitter power(kHz)
1850.2	512	309.70
1880	661	316.90
1909.8	810	314.00

GPRS MODE:

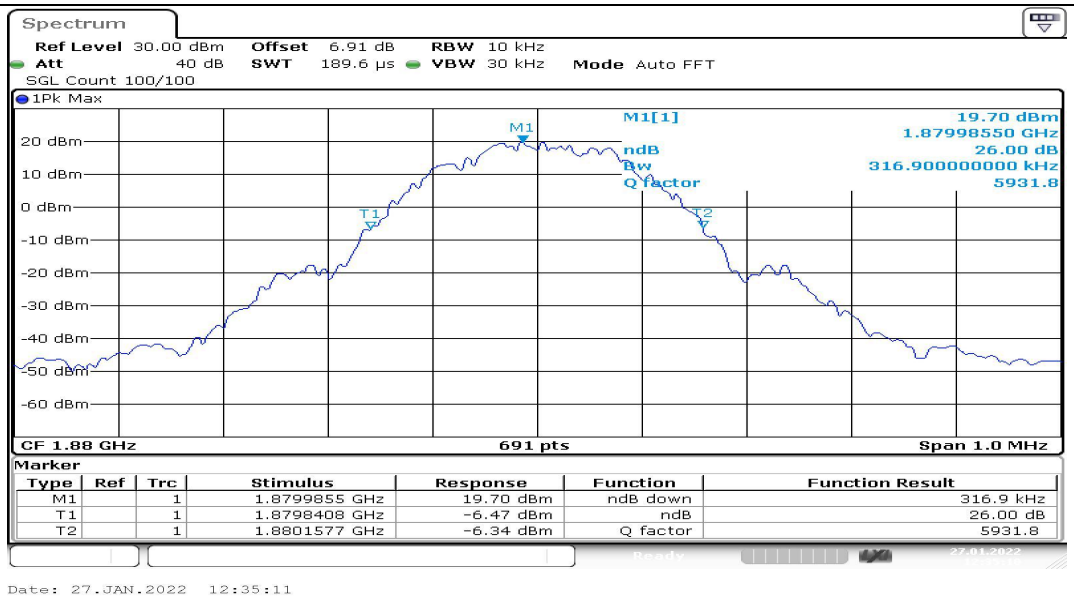
Carrier frequency (MHz)	Channel No.	Bandwidth of -26dB (kHz)
1850.2	512	319.80
1880	661	308.20
1909.8	810	302.50

PCS1900

GSM MODE:

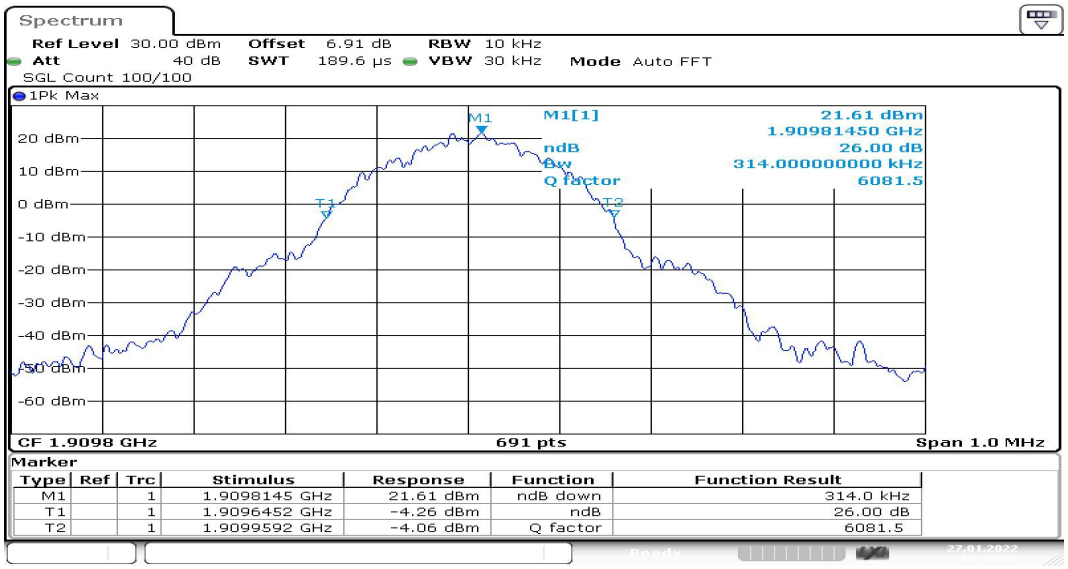


Channel 512



Date: 27.JAN.2022 12:35:11

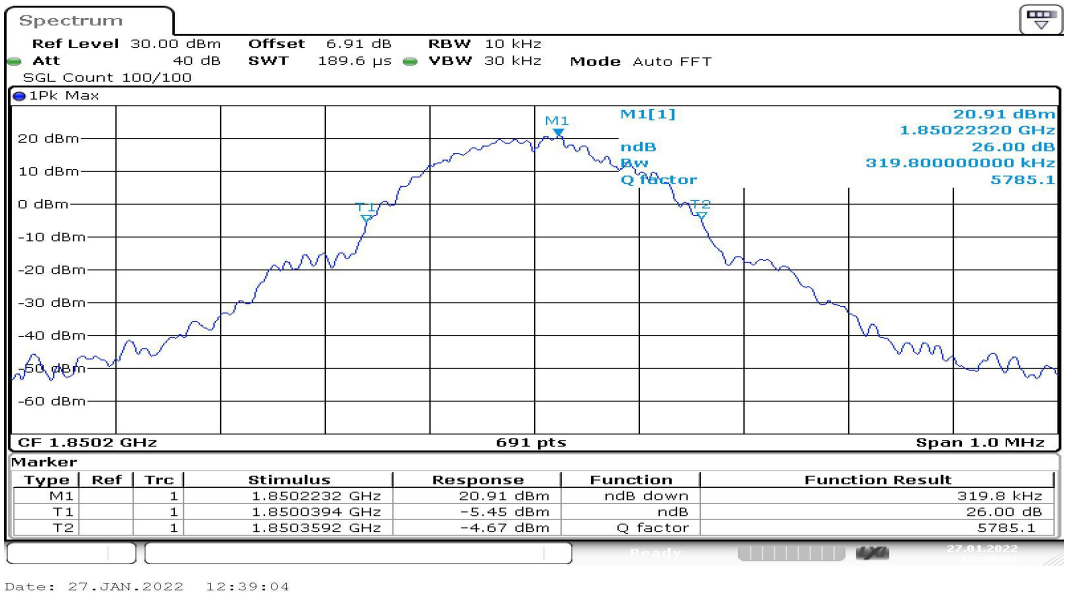
Channel 661



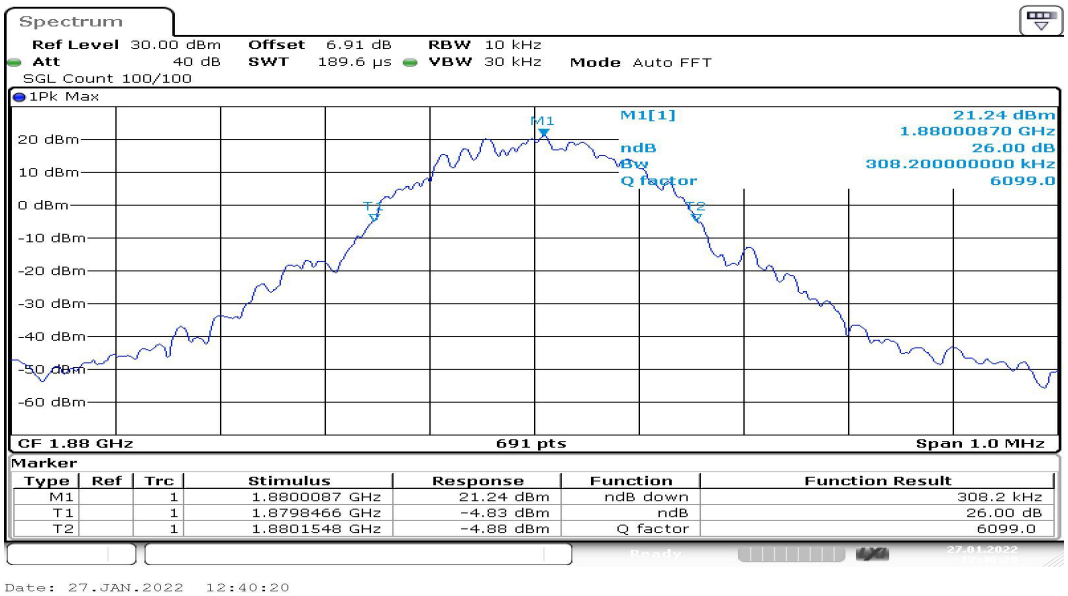
Date: 27.JAN.2022 12:35:56

Channel 810

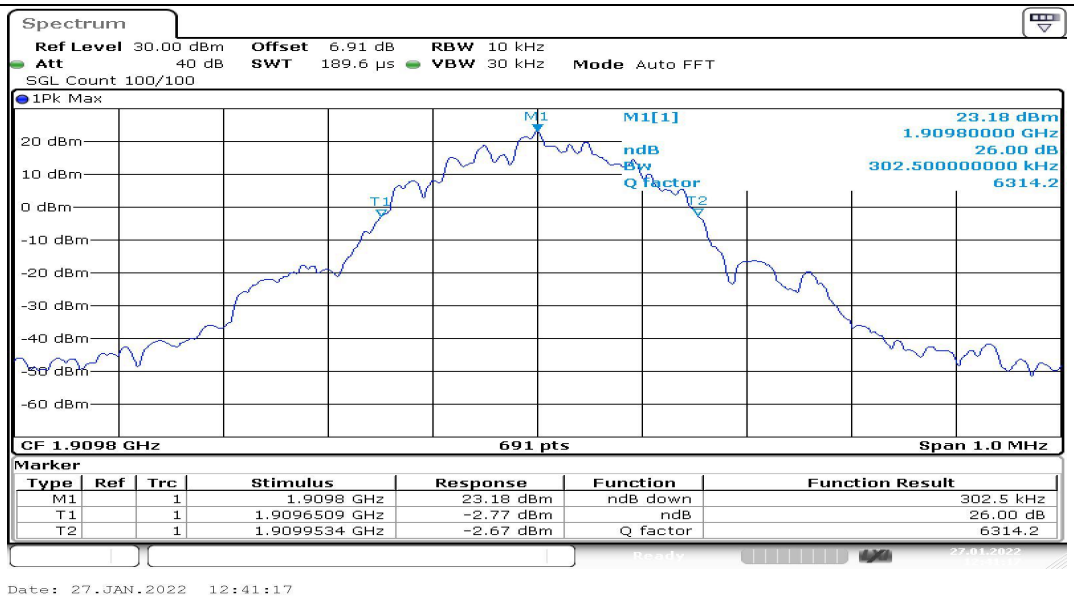
GPRS MODE:



Channel 512



Channel 661

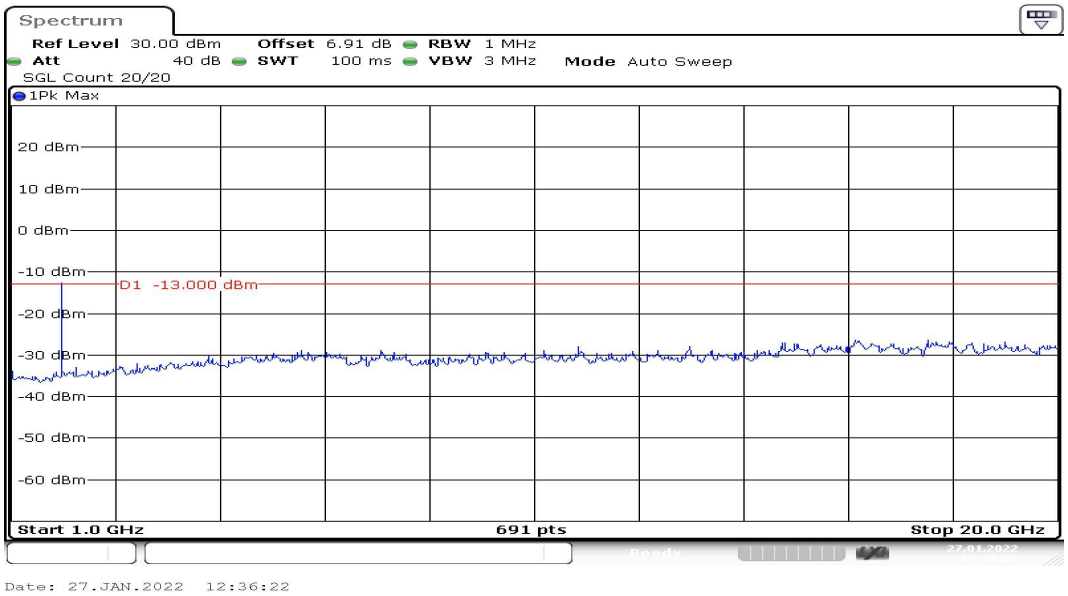

Spectrum
Ref Level 30.00 dBm Offset 6.91 dB RBW 10 kHz
Att 40 dB SWT 189.6 µs VBW 30 kHz Mode Auto FFT
SGL Count 100/100
1Pk Max
M1 M1[1] 23.18 dBm
1.90980000 GHz
ndB 26.00 dB
BW 302.500000000 kHz
Q factor 6314.2
T1
T2
20 dBm
10 dBm
0 dBm
-10 dBm
-20 dBm
-30 dBm
-40 dBm
-50 dBm
-60 dBm
CF 1.9098 GHz
691 pts
Span 1.0 MHz
Marker
Type Ref Trc Stimulus Response Function Function Result
M1 1 1.9098 GHz 23.18 dBm ndB down 302.5 kHz
T1 1 1.9096509 GHz -2.77 dBm ndB 26.00 dB
T2 1 1.9099534 GHz -2.67 dBm Q factor 6314.2
Date: 27.JAN.2022 12:41:17

Channel 810

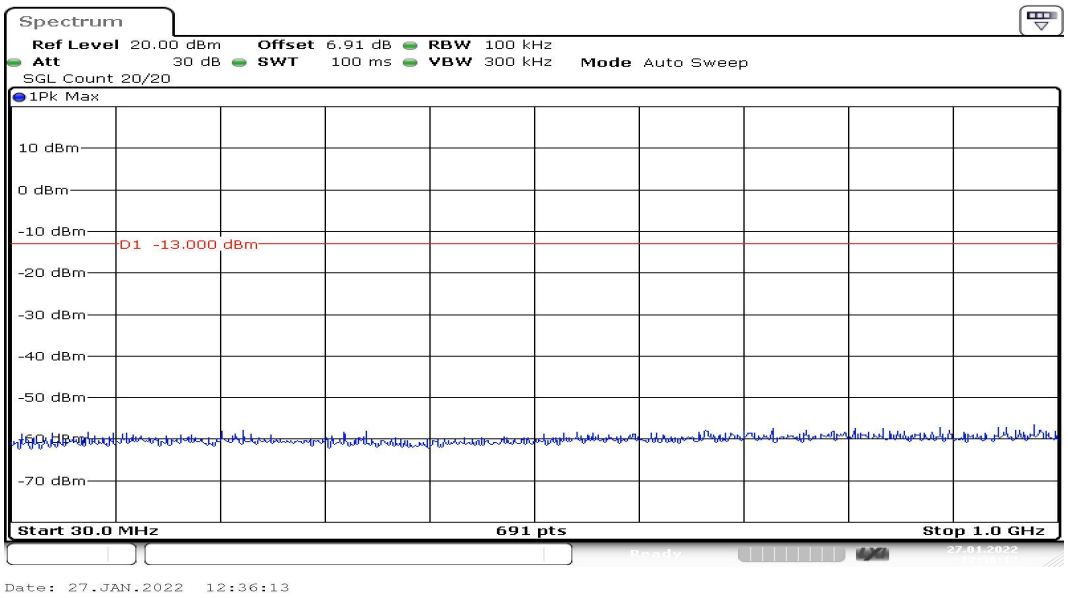
4. Spurious Emissions at antenna terminal

PCS1900

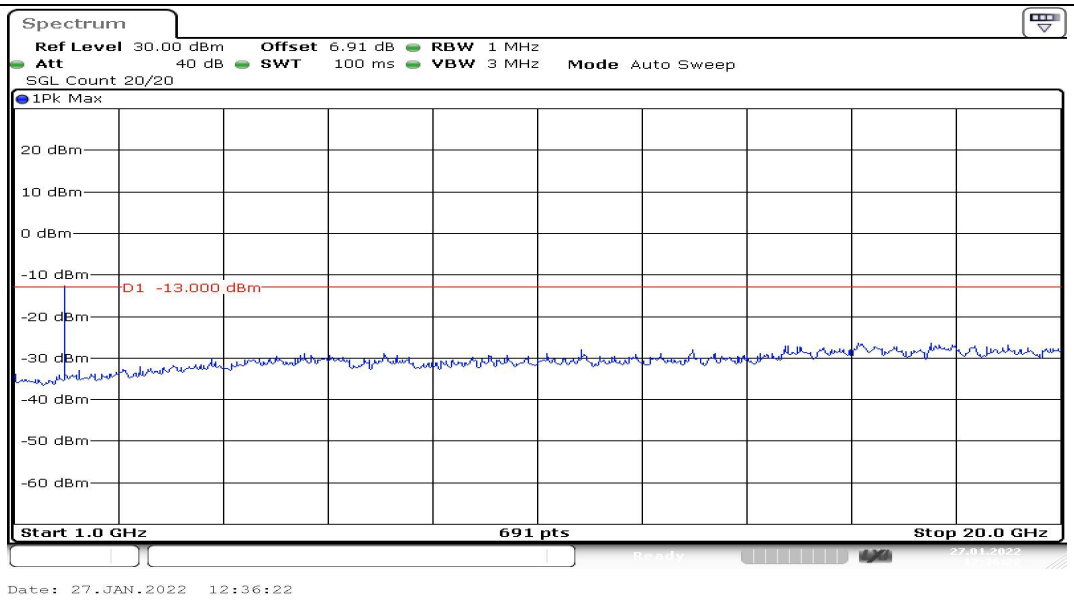
GSM MODE:



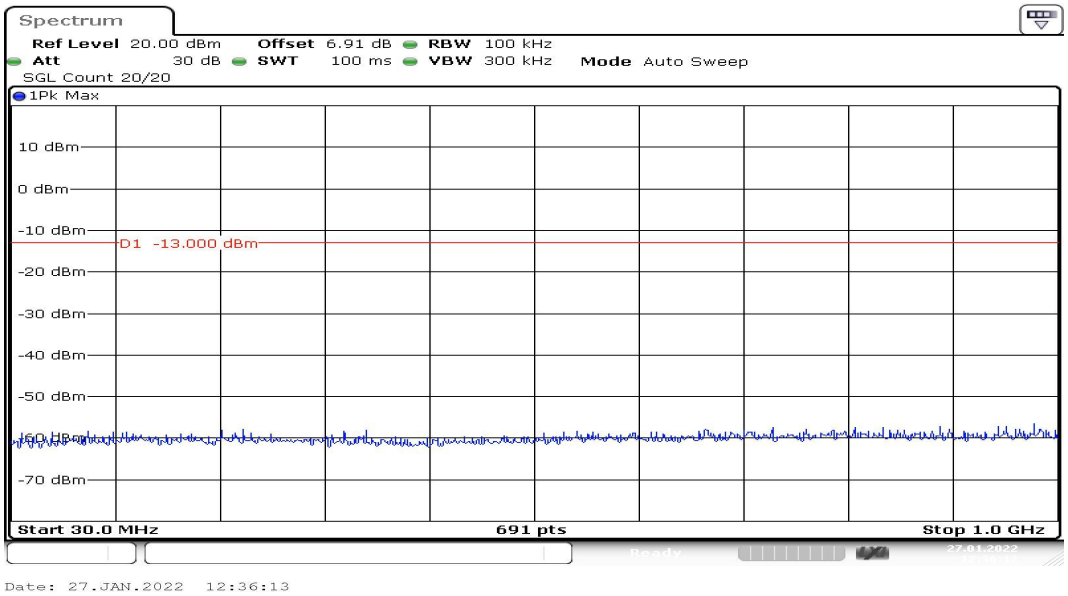
Channel 512



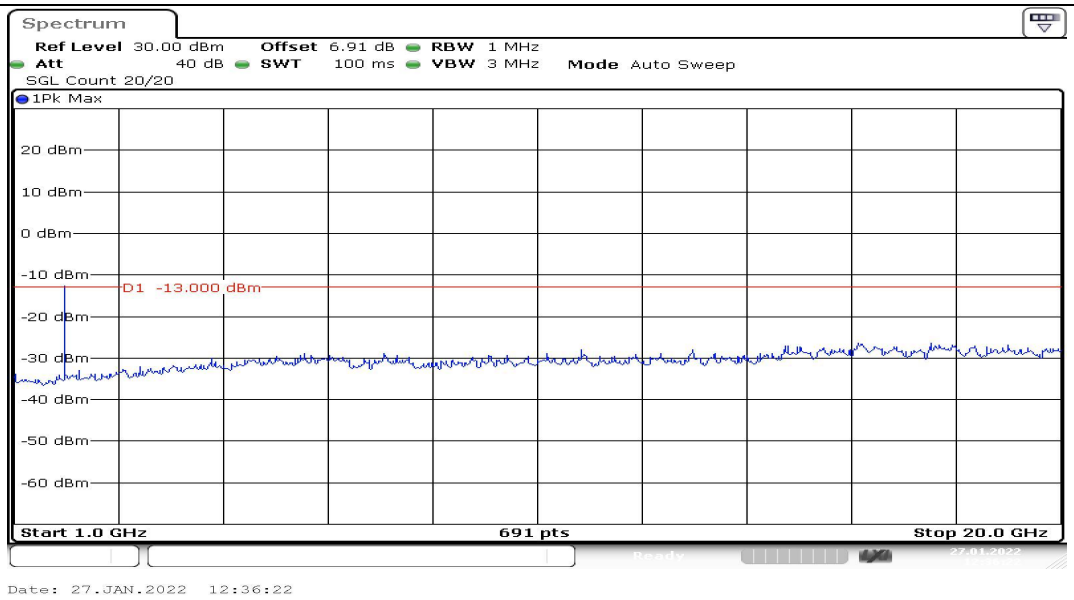
Channel 512



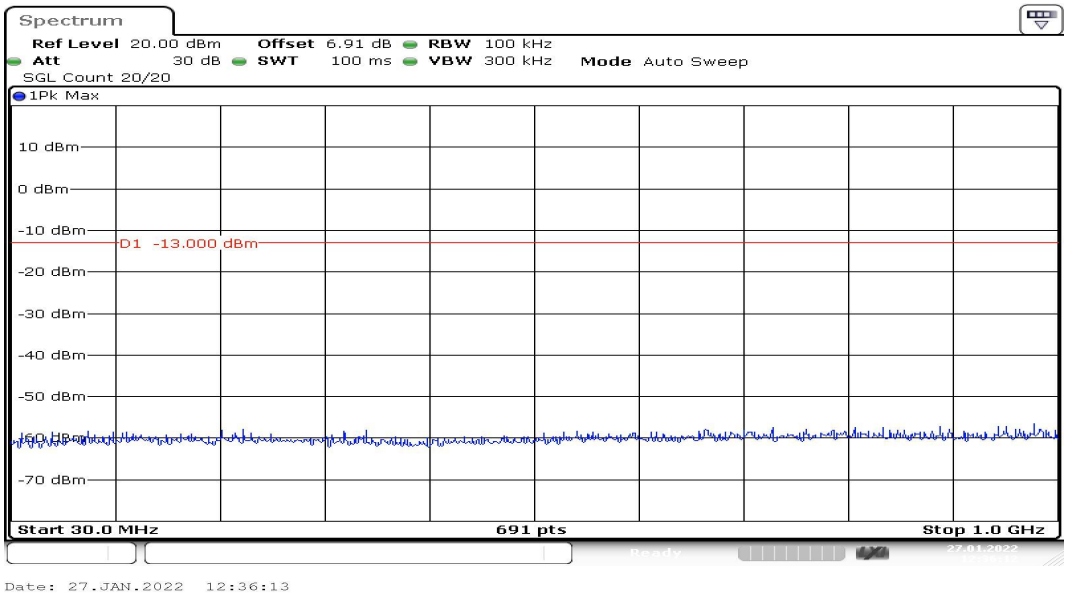
Channel 661



Channel 661

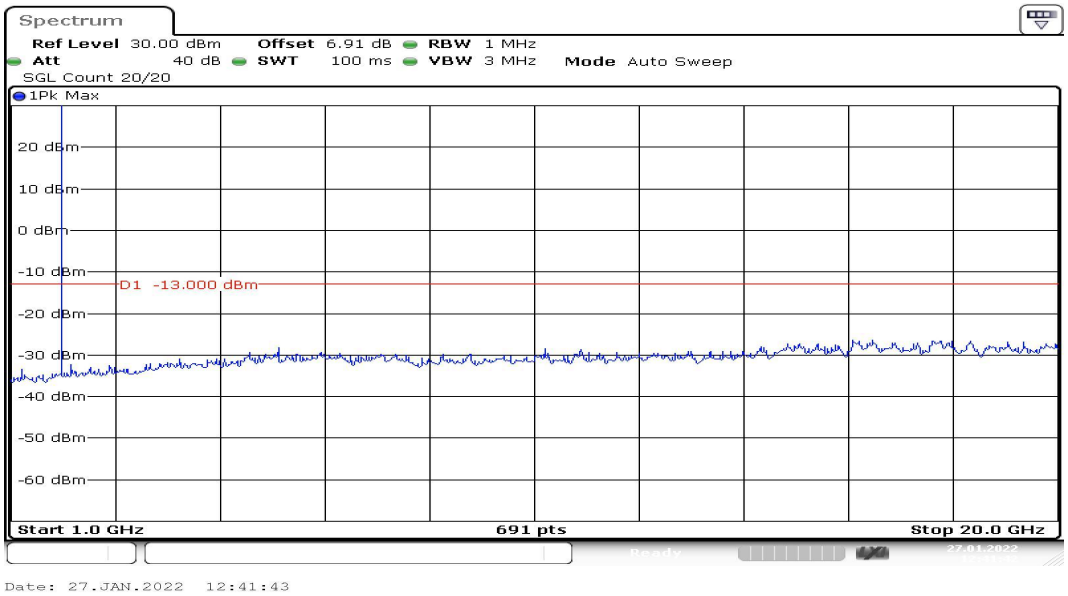


Channel 810

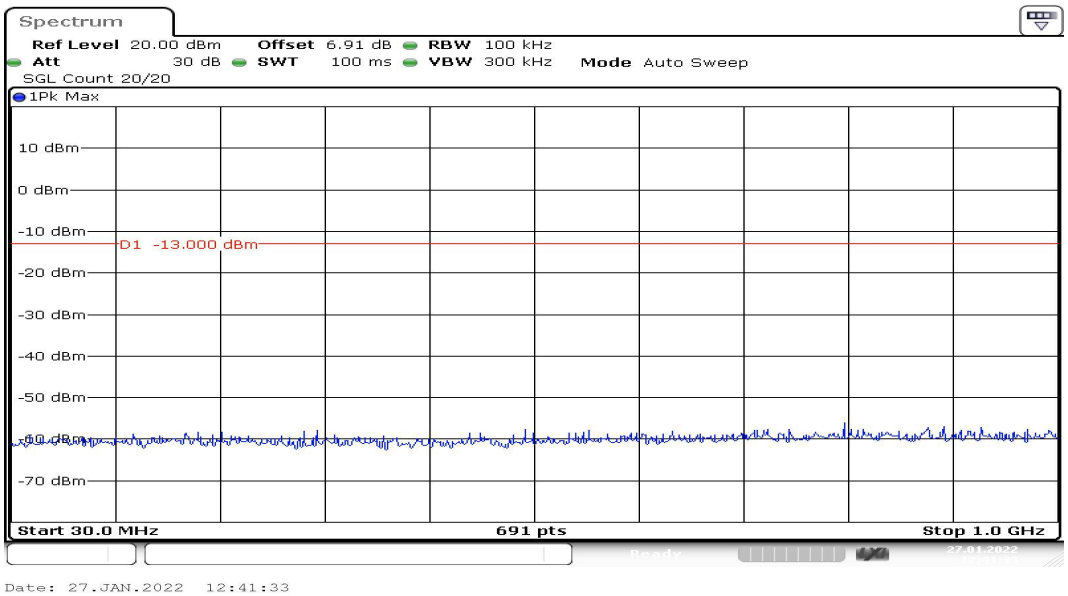


Channel 810

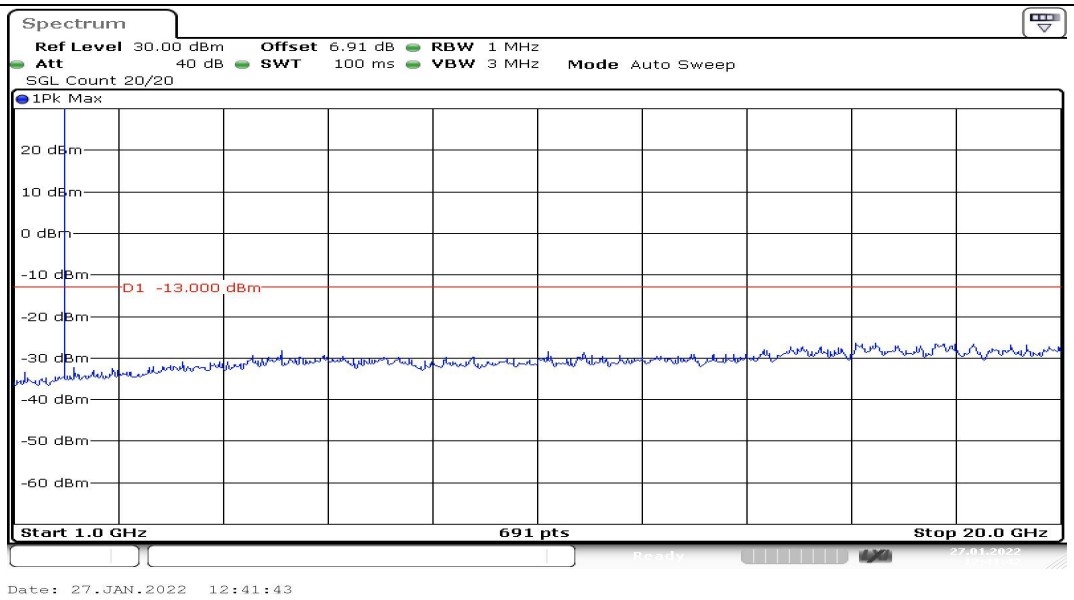
GPRS MODE:



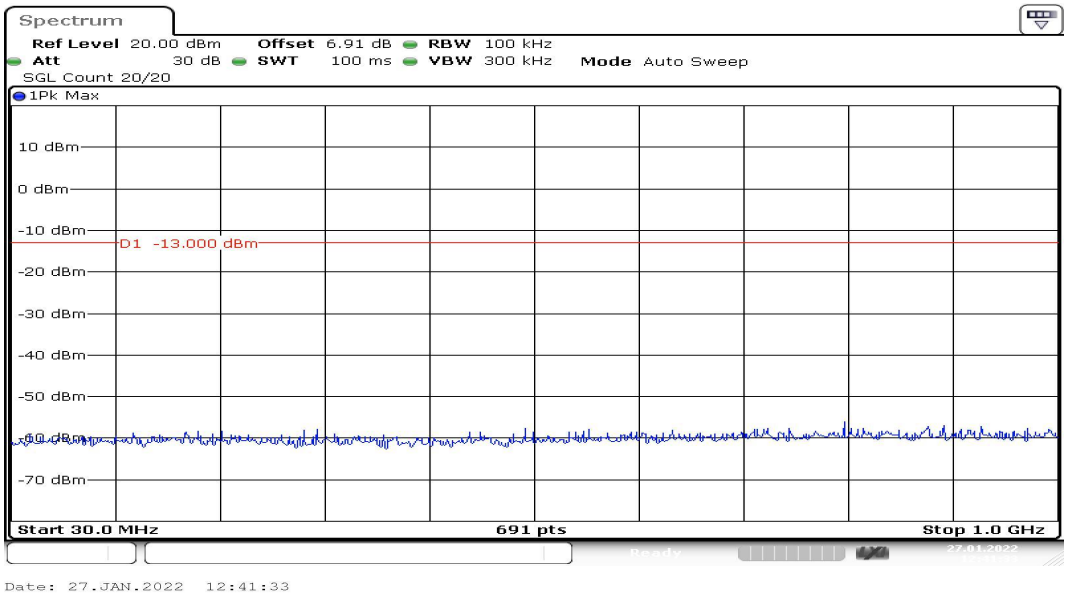
Channel 512



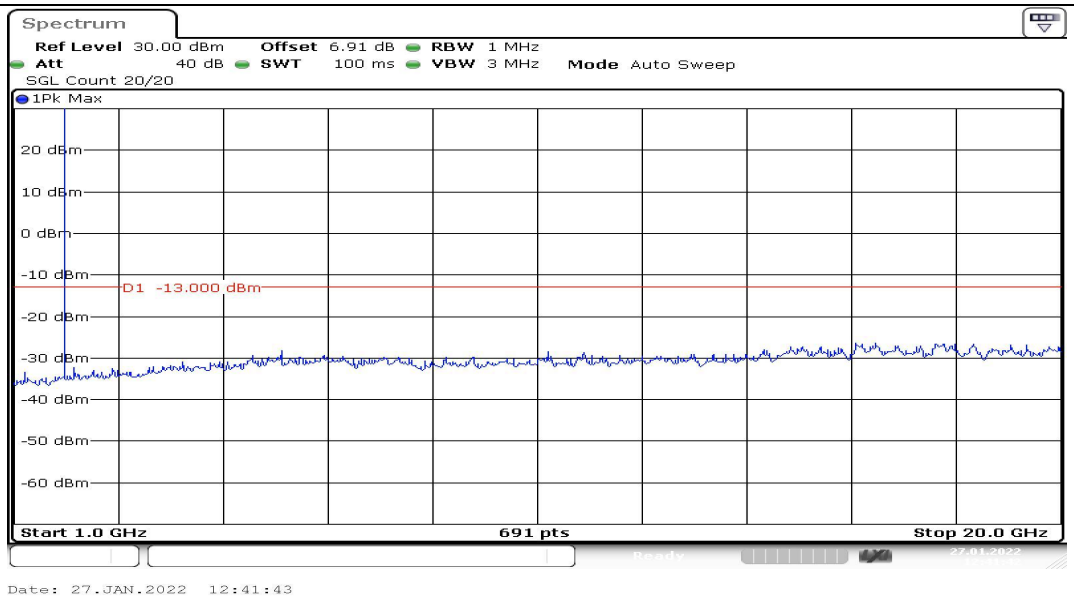
Channel 512



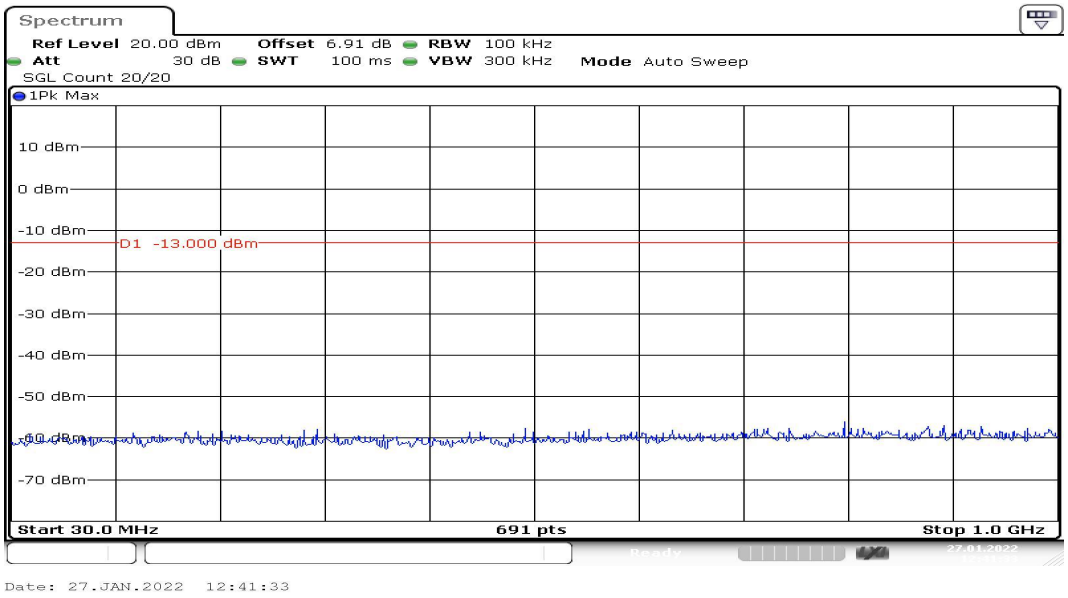
Channel 661



Channel 661



Channel 810

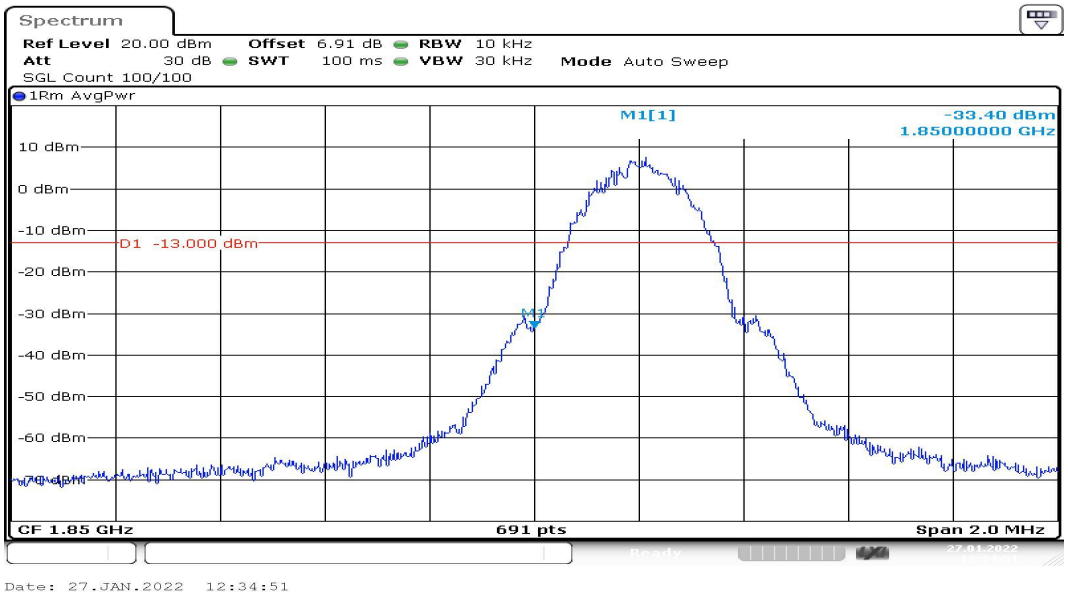


Channel 810

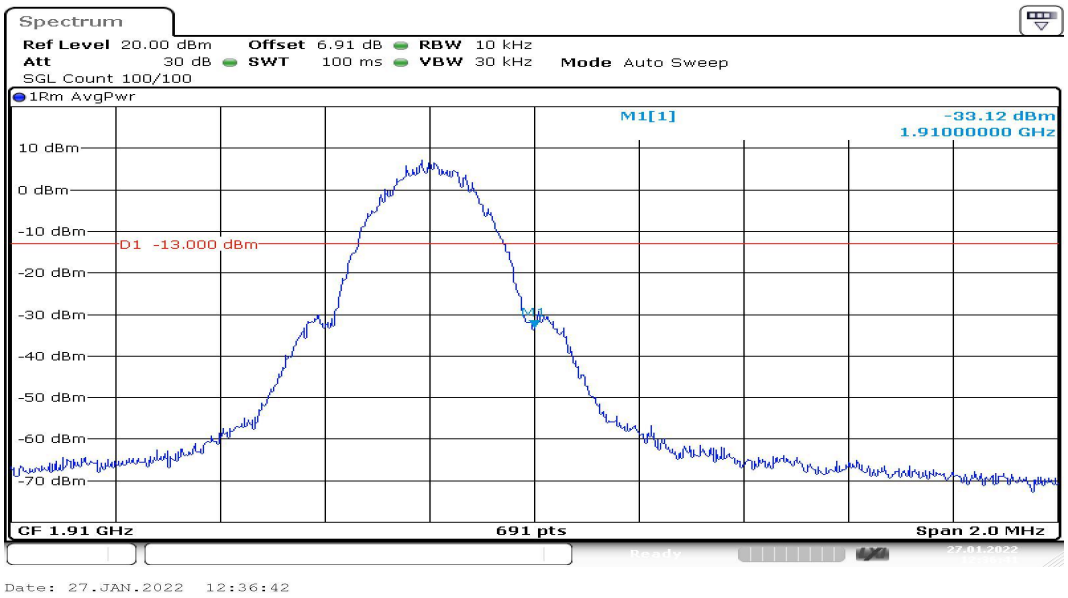
5. Band Edges Compliance

PCS1900

GSM MODE:

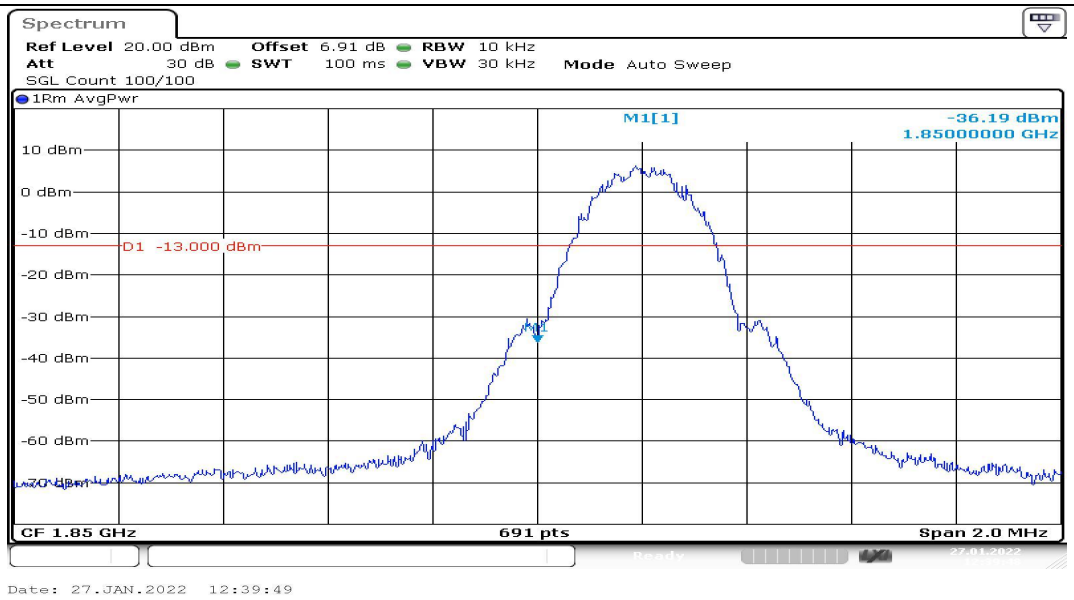


Channel 512

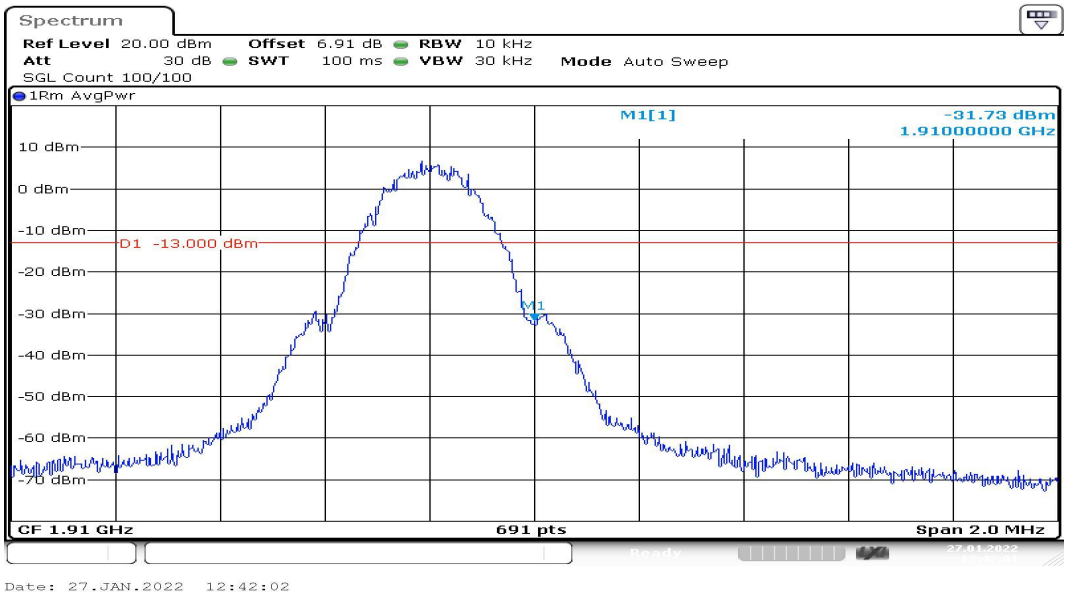


Channel 810

GPRS MODE:



Channel 512



Channel 810

6. Frequency Stability

PCS1900

GSM MODE:

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

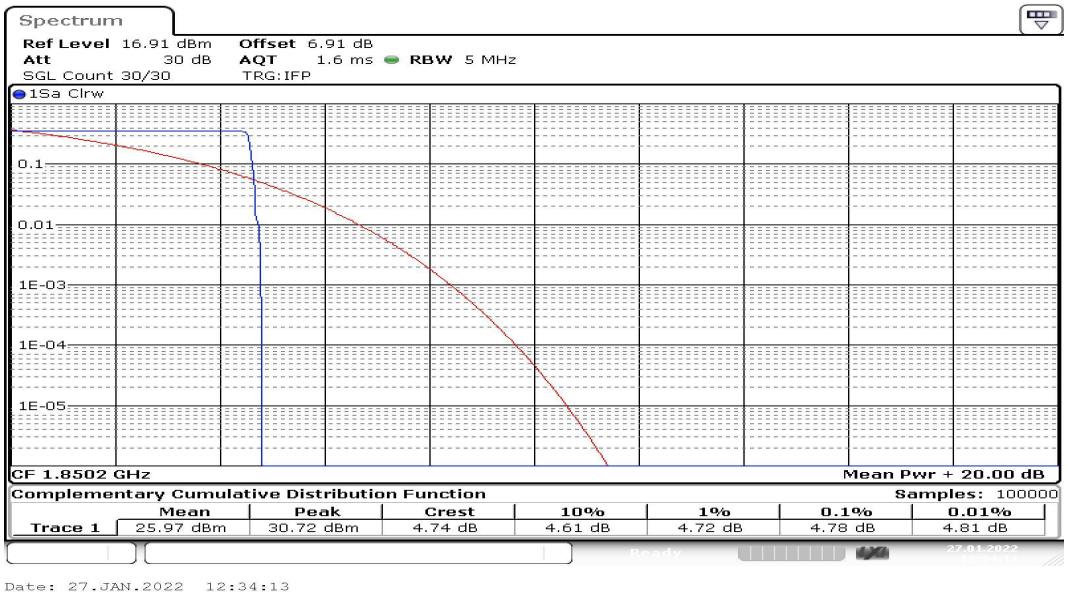
GPRS MODE:

Temperature(°C)	Test Result (ppm)@NV		
	Channel 512	Channel 661	Channel 810
-10	0.002	0.000	0.003
0	0.002	0.000	0.002
+10	0.008	0.003	0.000
+30	0.002	-0.001	0.001
+40	0.004	0.002	0.001
+50	0.005	0.000	0.006
Voltage	Test Result (ppm)@NT		
	Channel 512	Channel 661	Channel 810
LV	0.007	-0.001	0.002
HV	0.005	0.003	0.000

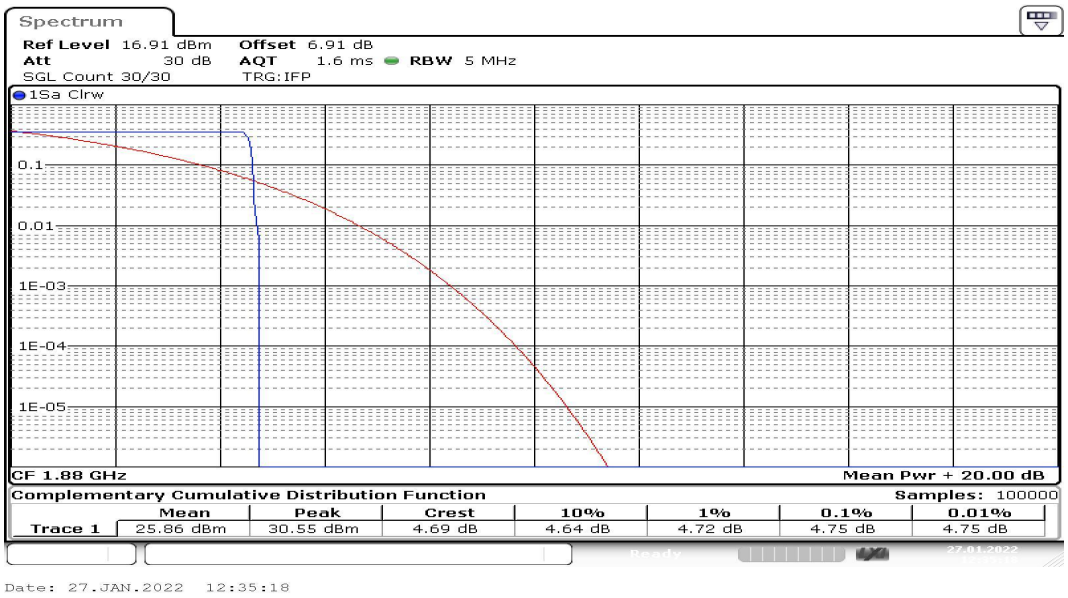
7. Peak-Average Ratio

PCS1900

GSM MODE:



Channel 512



Channel 661