



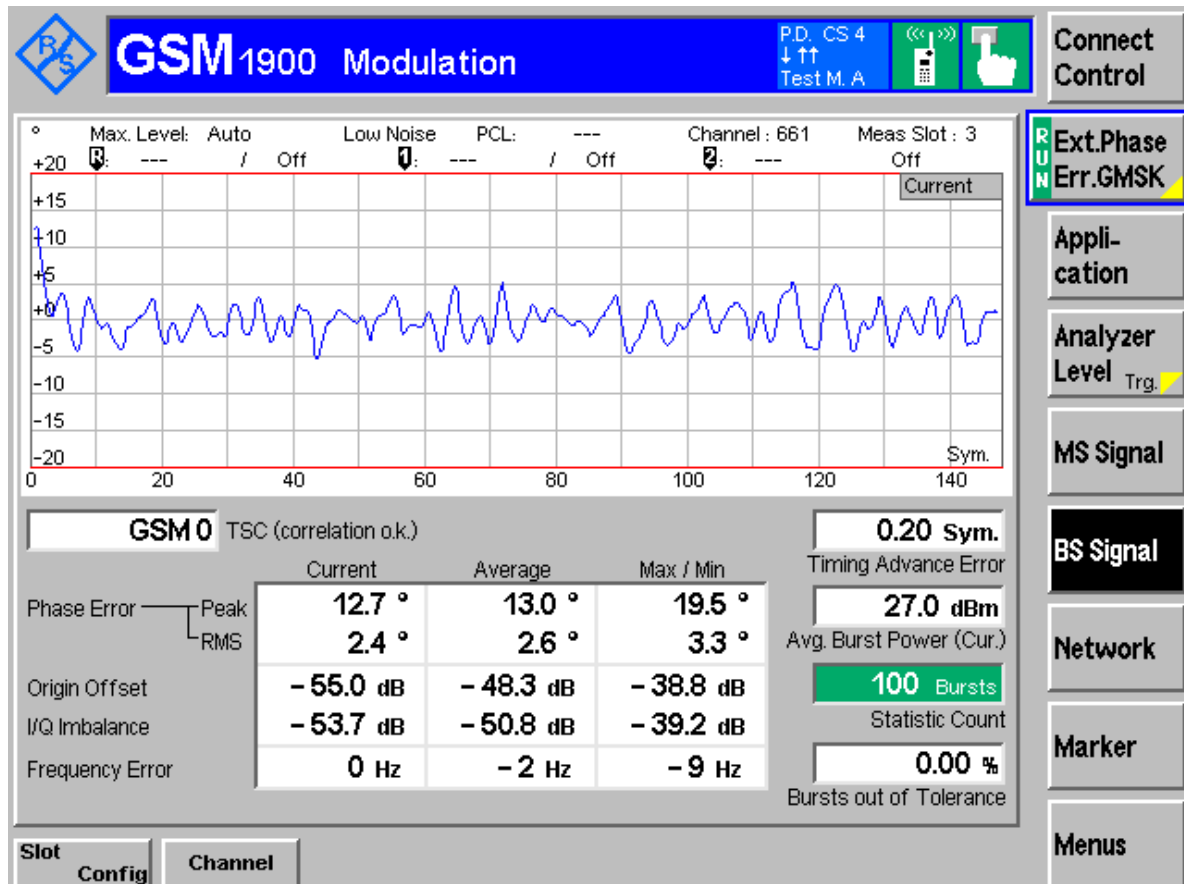
Appendix A

Modulation Characteristics

According to FCC Part 2.1047 & Part24 Subpart E
&RSS-133

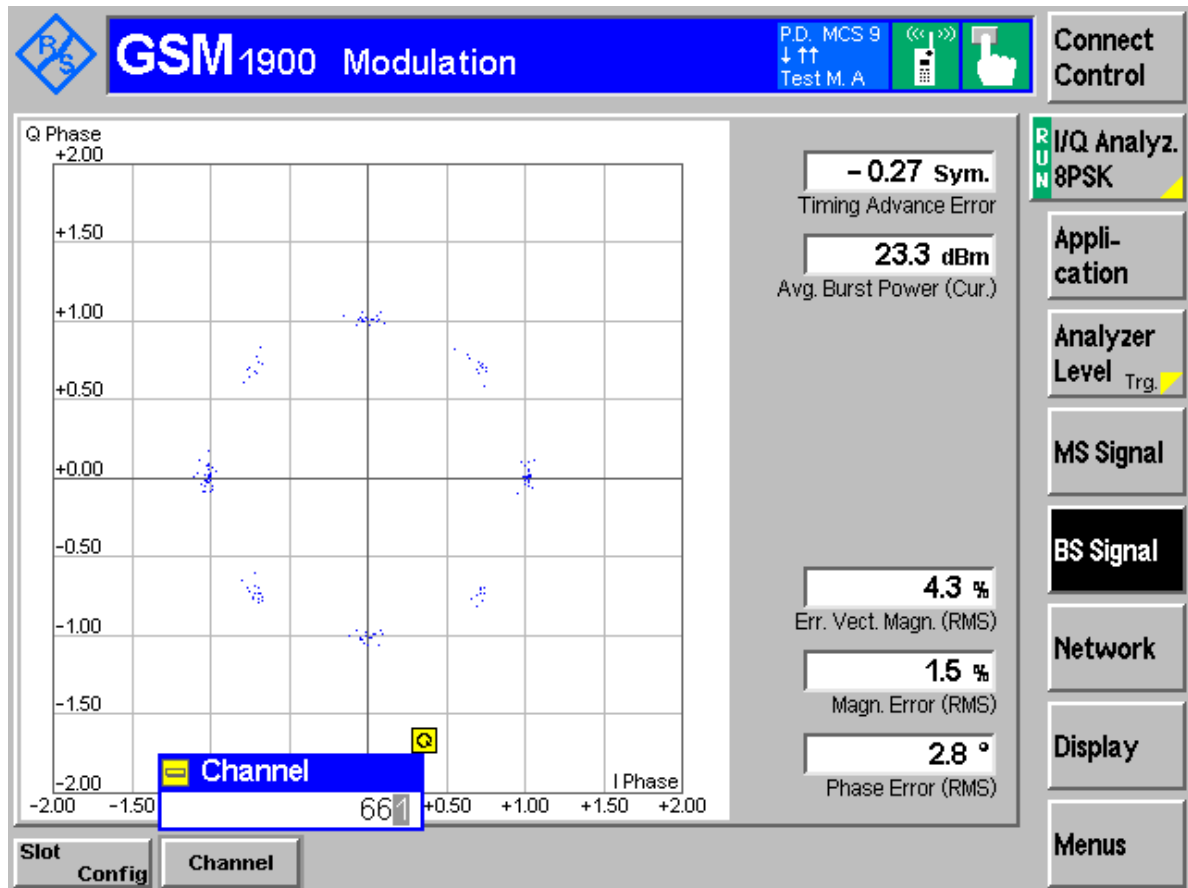


TM1:GPRS/GSM Channel 661



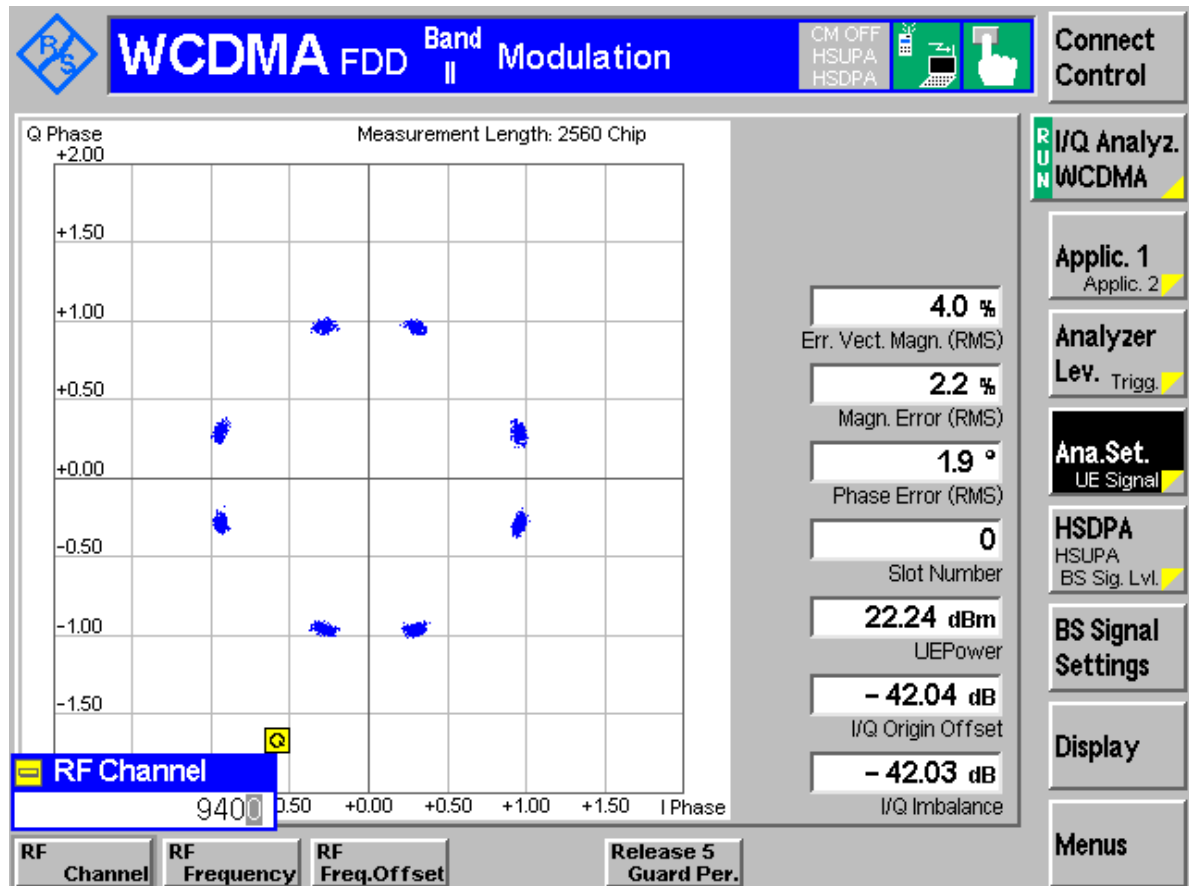


TM2:EDGE Channel 661





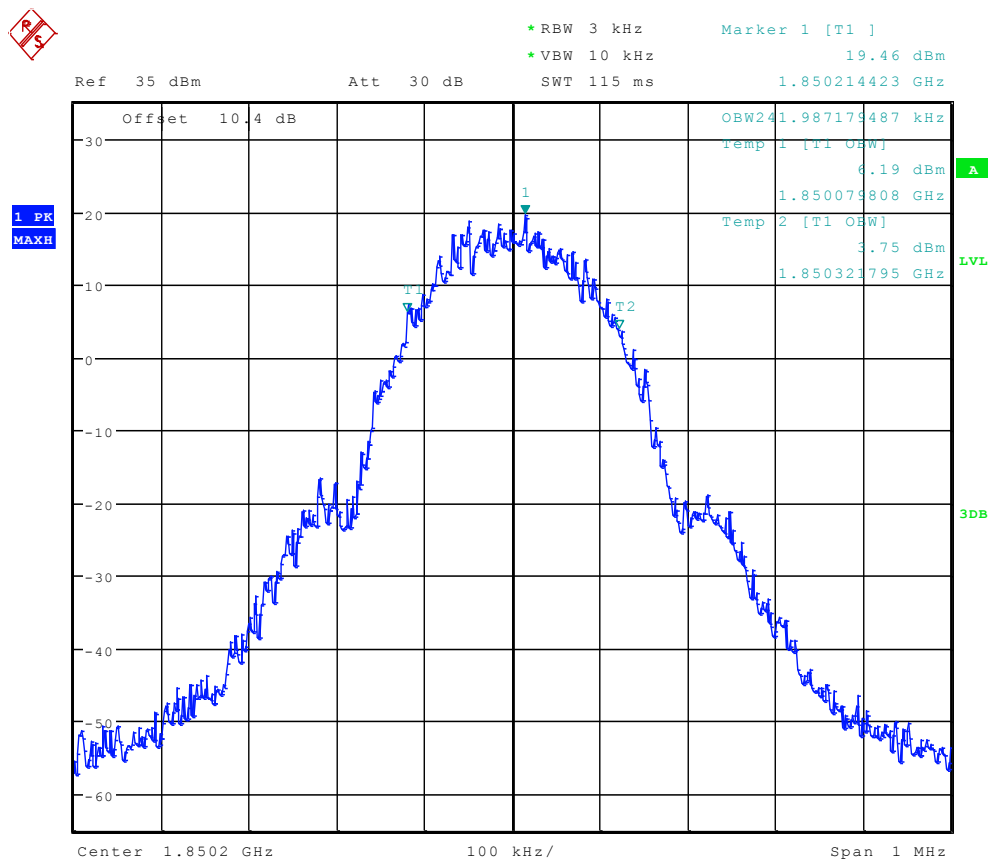
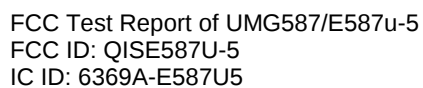
TM3: WCDMA Channel 9400





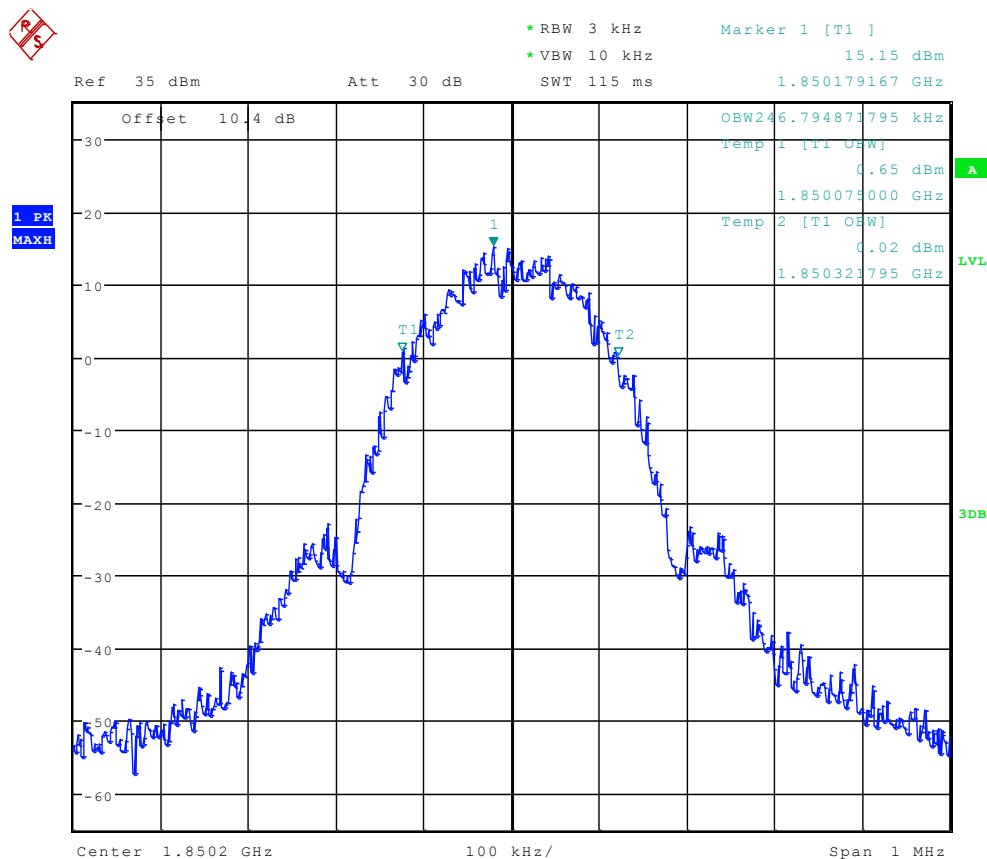
Appendix B

Occupied Bandwidth According to FCC Part 2.1049 & Part24 Subpart E &RSS-133



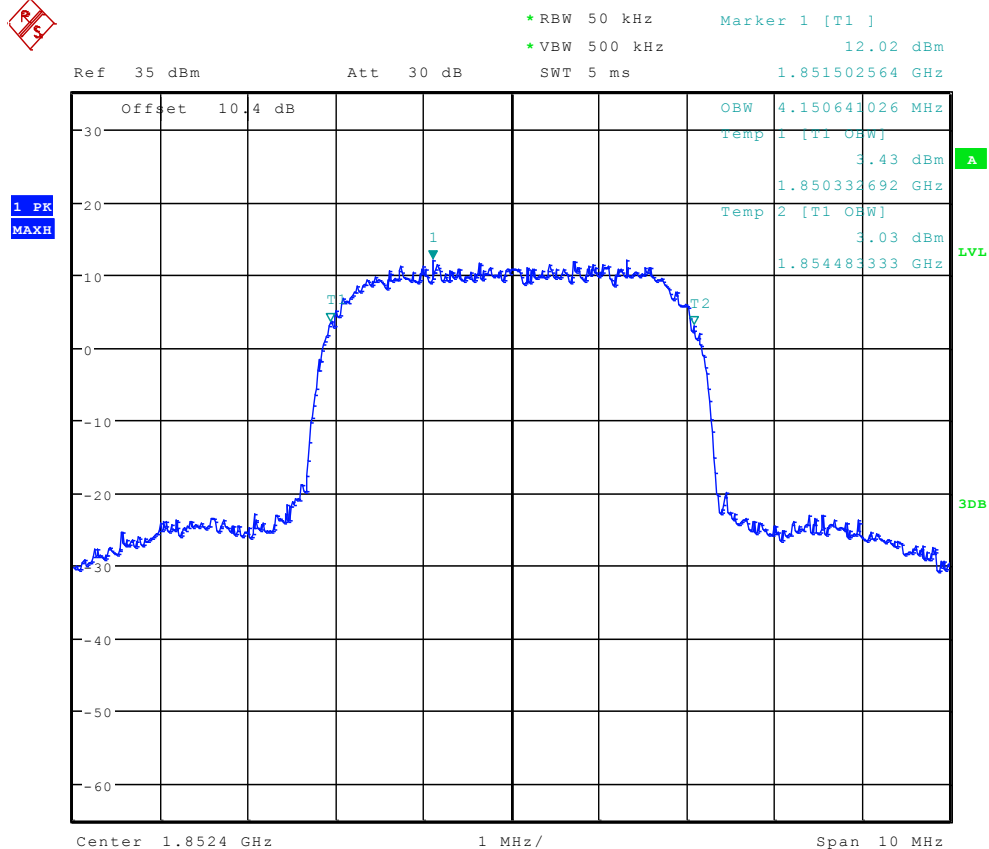


TM2:EDGE Channel 512



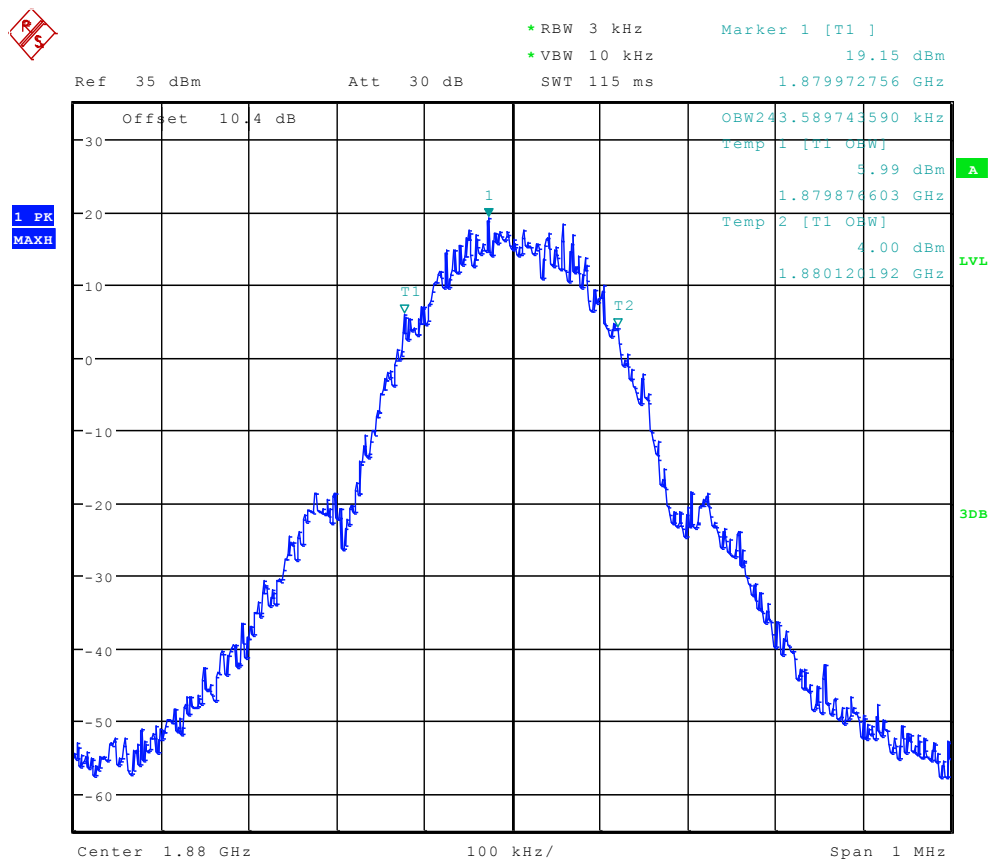


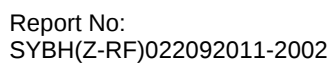
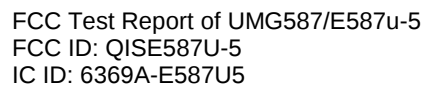
TM3: WCDMA Channel 9262





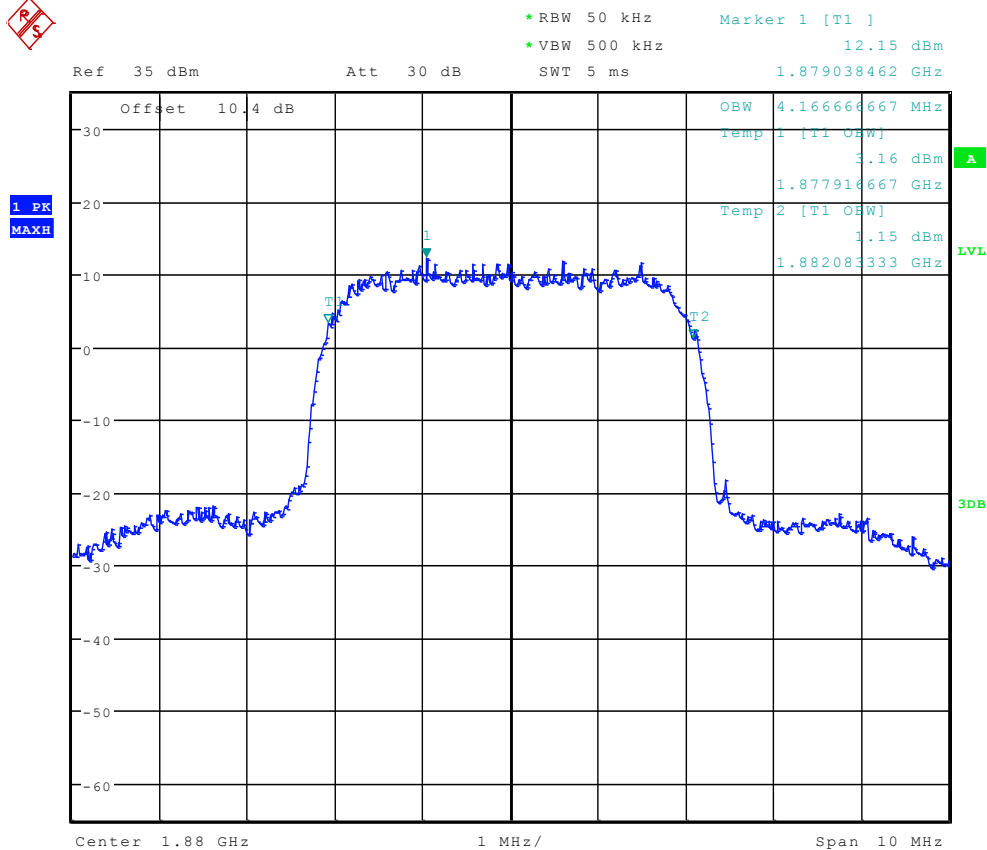
TM1:GPRS/GSM Channel 661





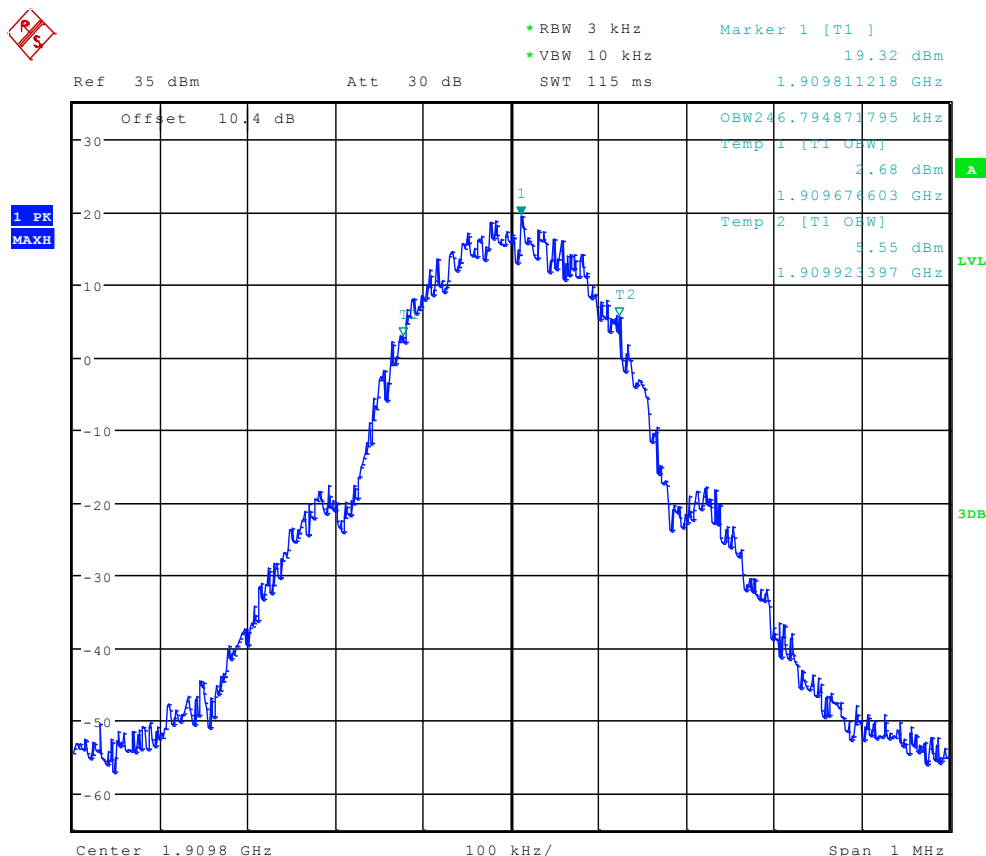


TM3: WCDMA Channel 9400



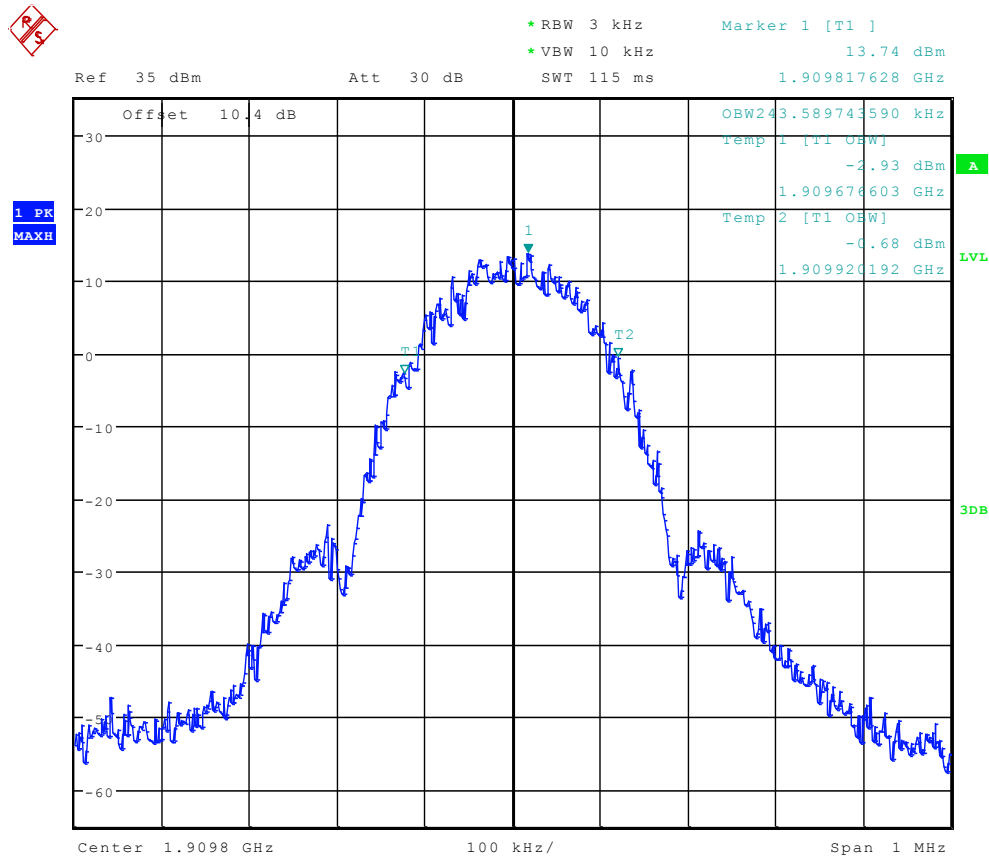


TM1:GPRS/GSM Channel 810



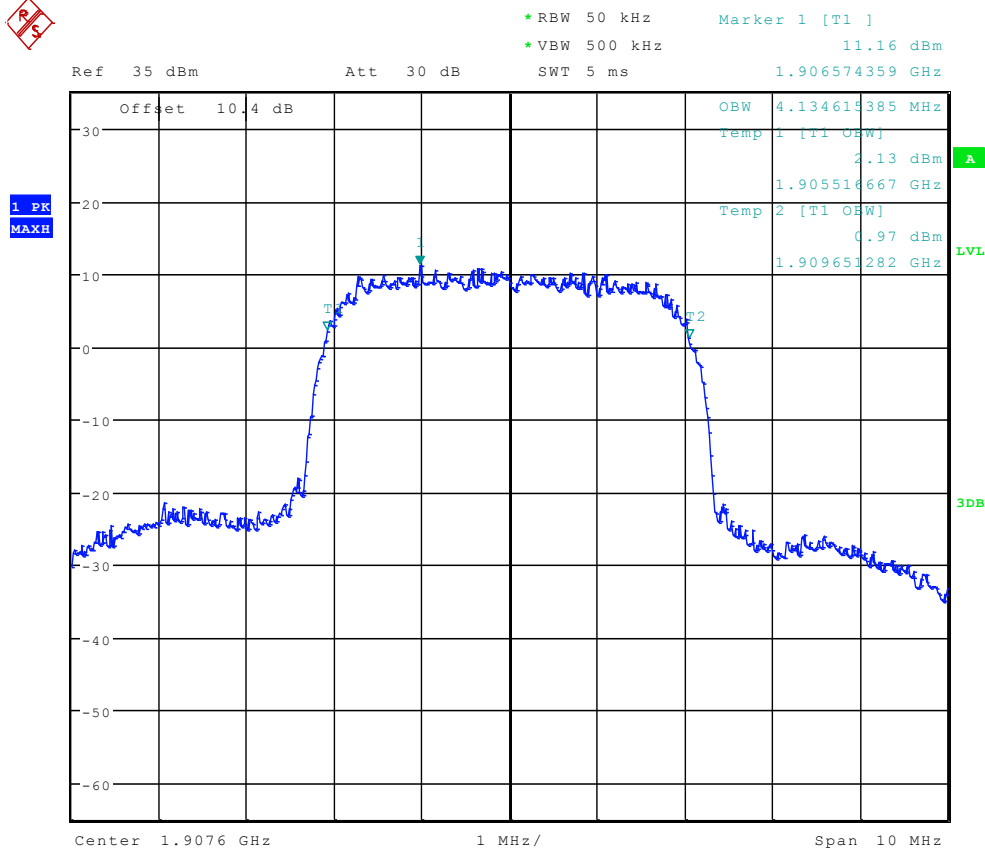


TM2:EDGE Channel 810





TM3: WCDMA Channel 9538





FCC Test Report of UMG587/E587u-5
FCC ID: QISE587U-5
IC ID: 6369A-E587U5



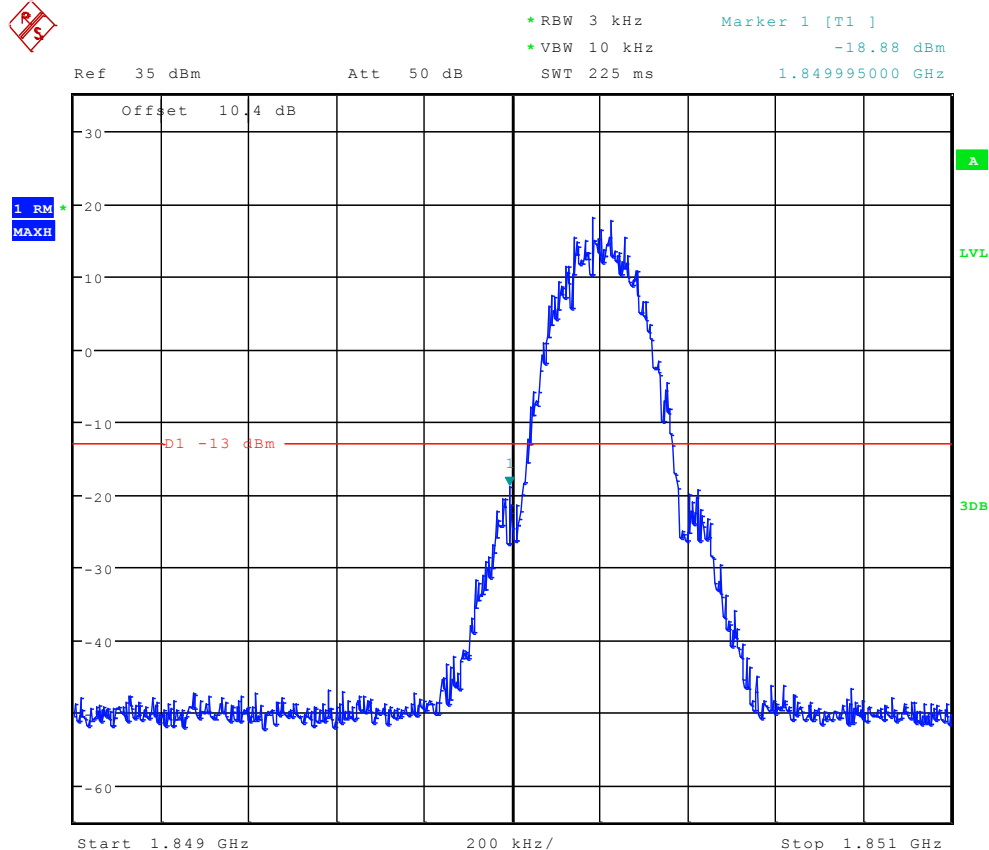
Appendix C

Band Edges Compliance

According to FCC Part 2.1051 & Part24 Subpart E
&RSS-133

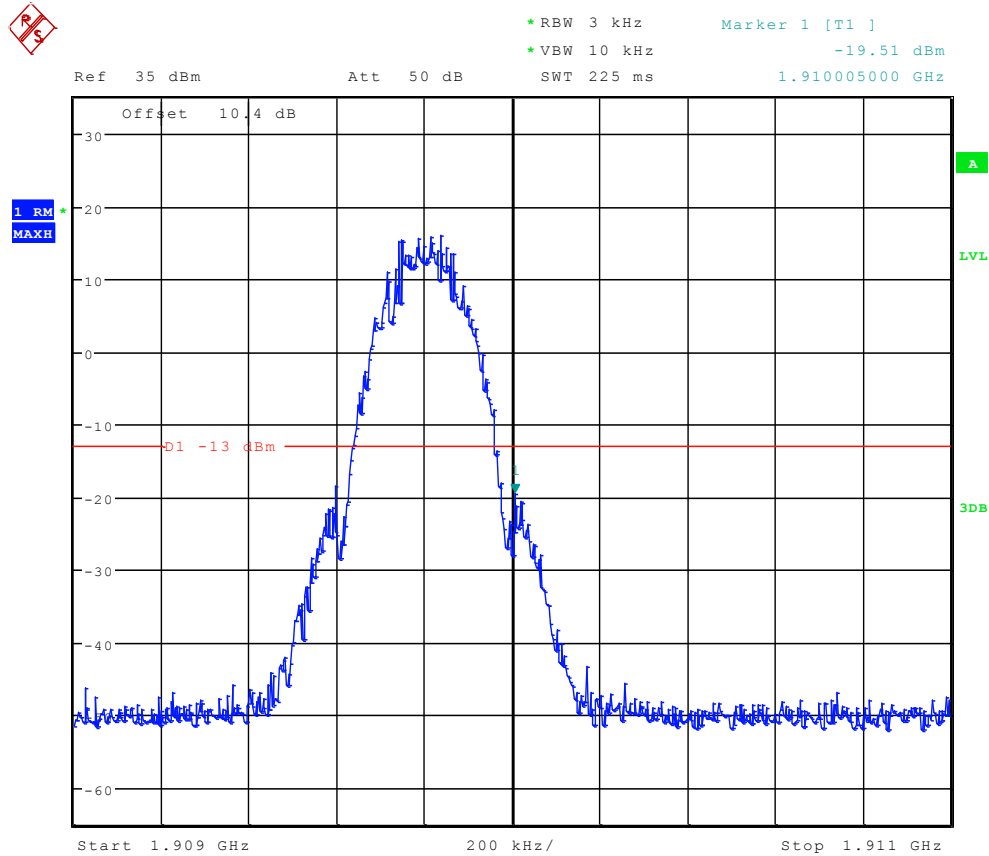


TM1:GPRS/GSM Left Edge Channel 512





Right Edge Channel 810

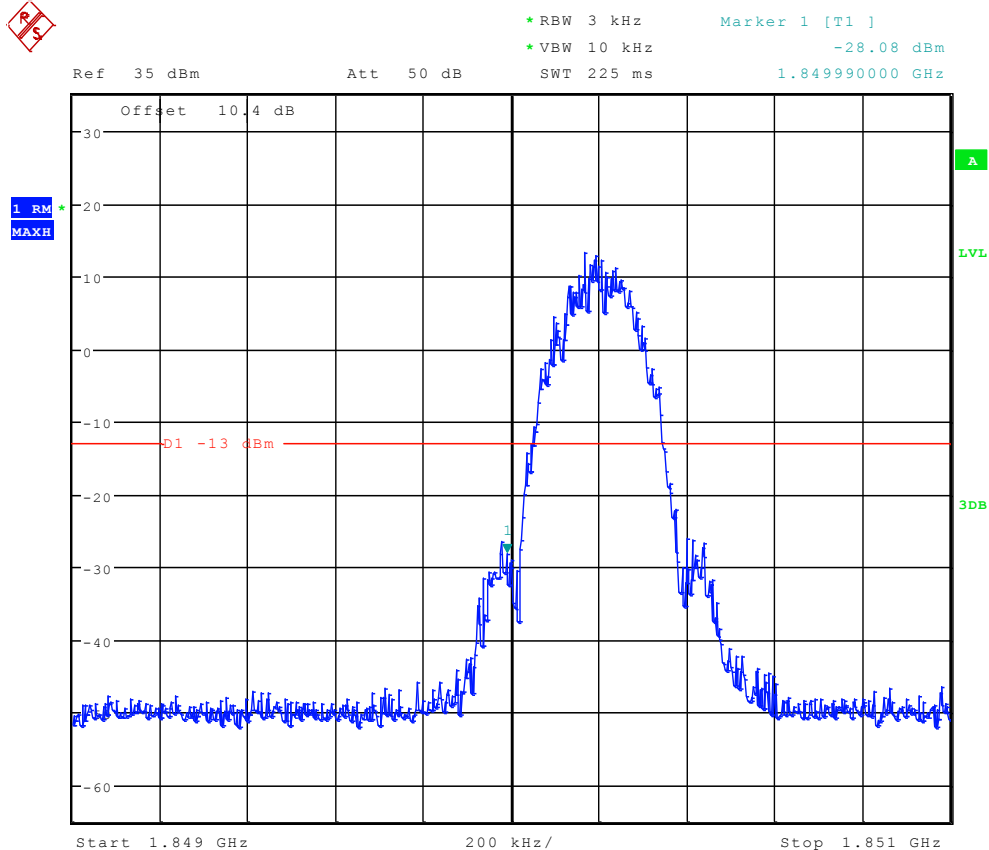




TM2:EDGE

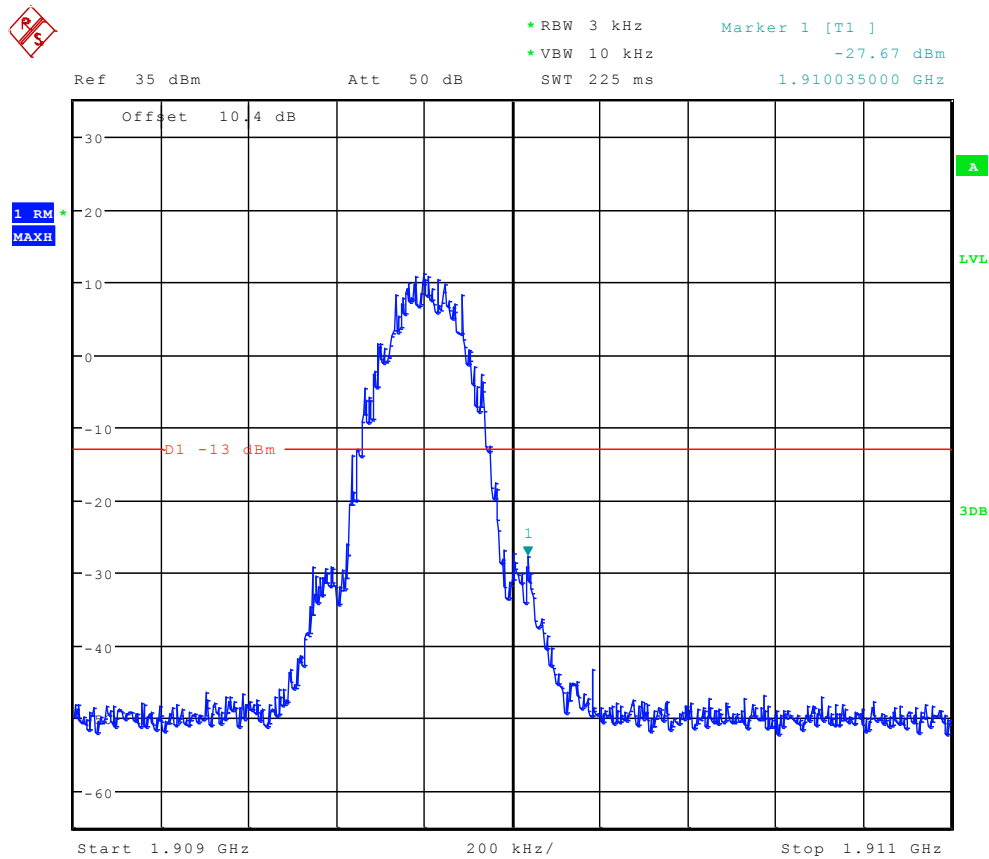
Left Edge

Channel 512



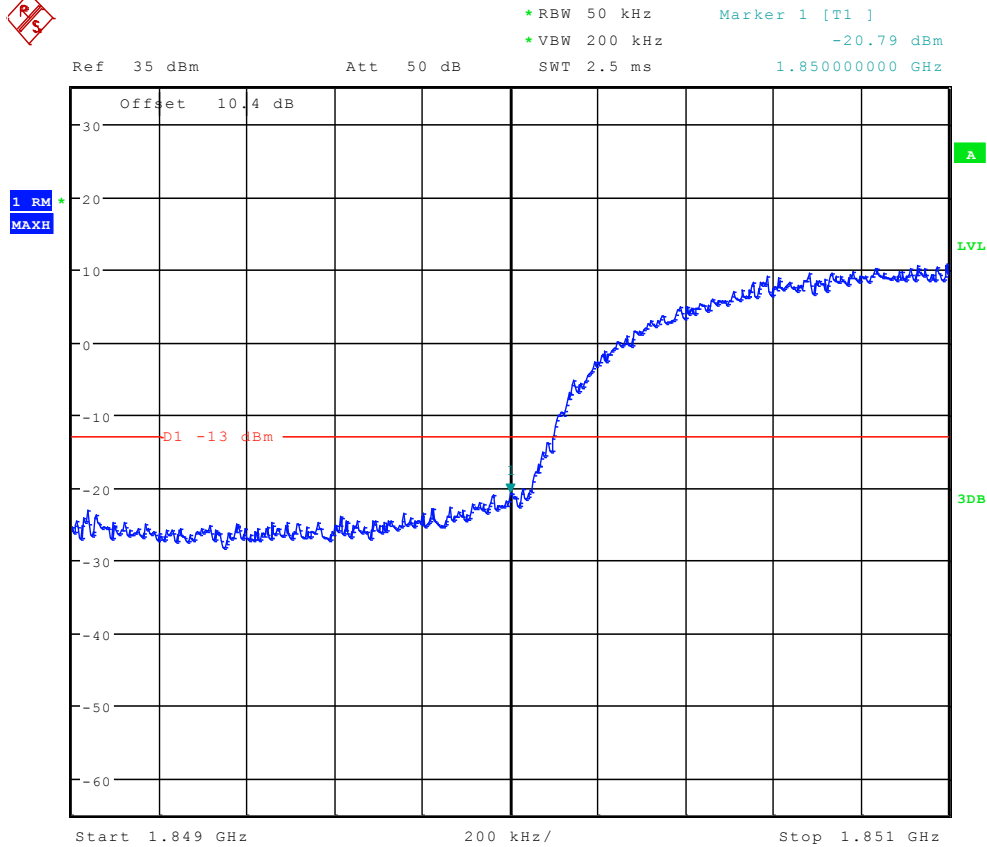


Right Edge Channel 810



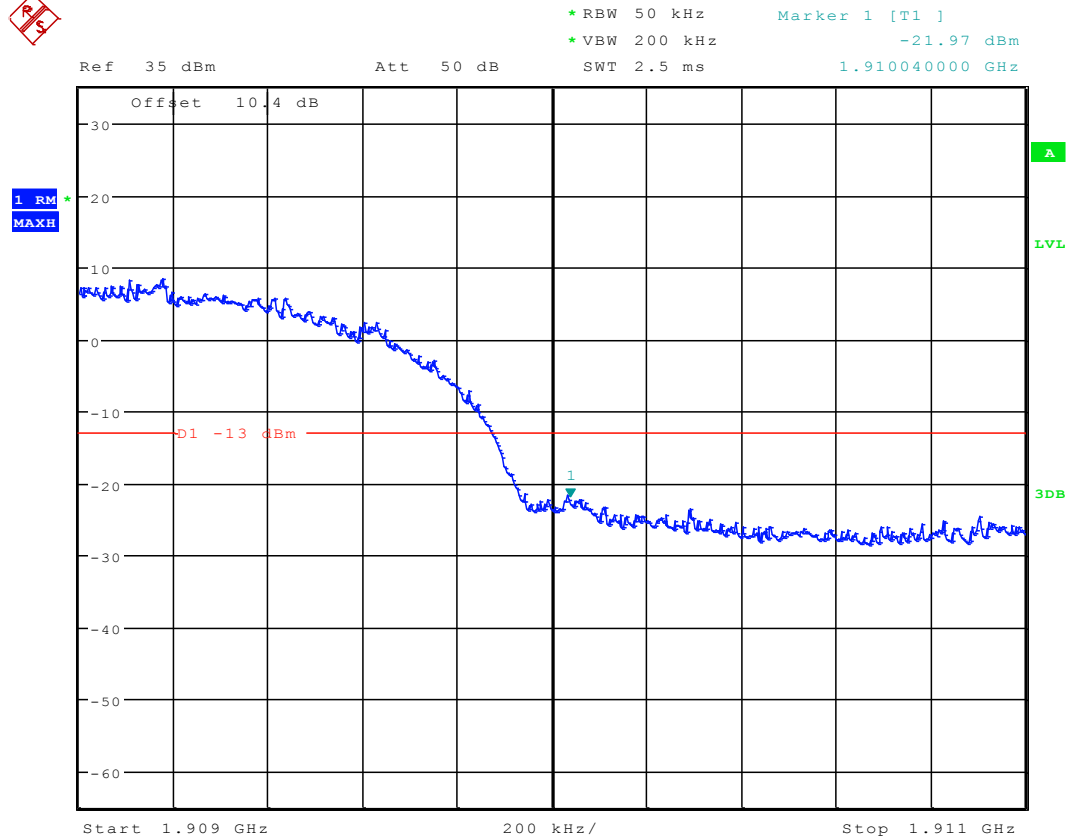


TM3: WCDMA Left Edge Channel 9262





Right Edge Channel 9538





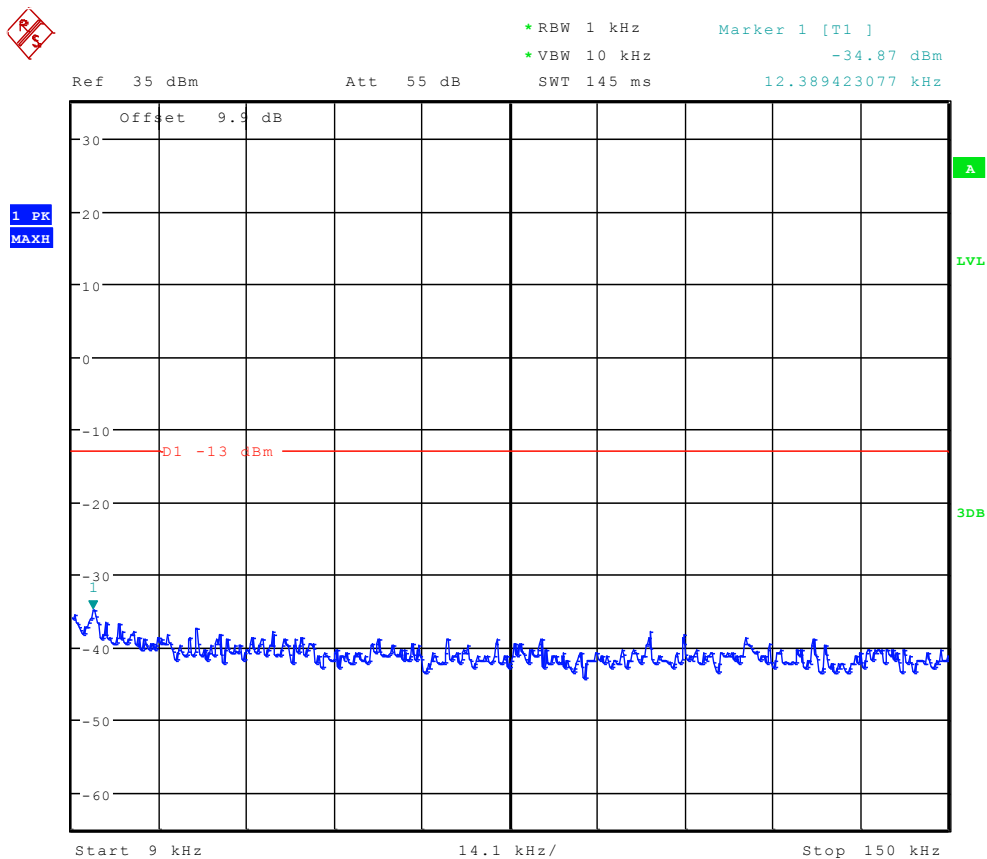
Appendix D

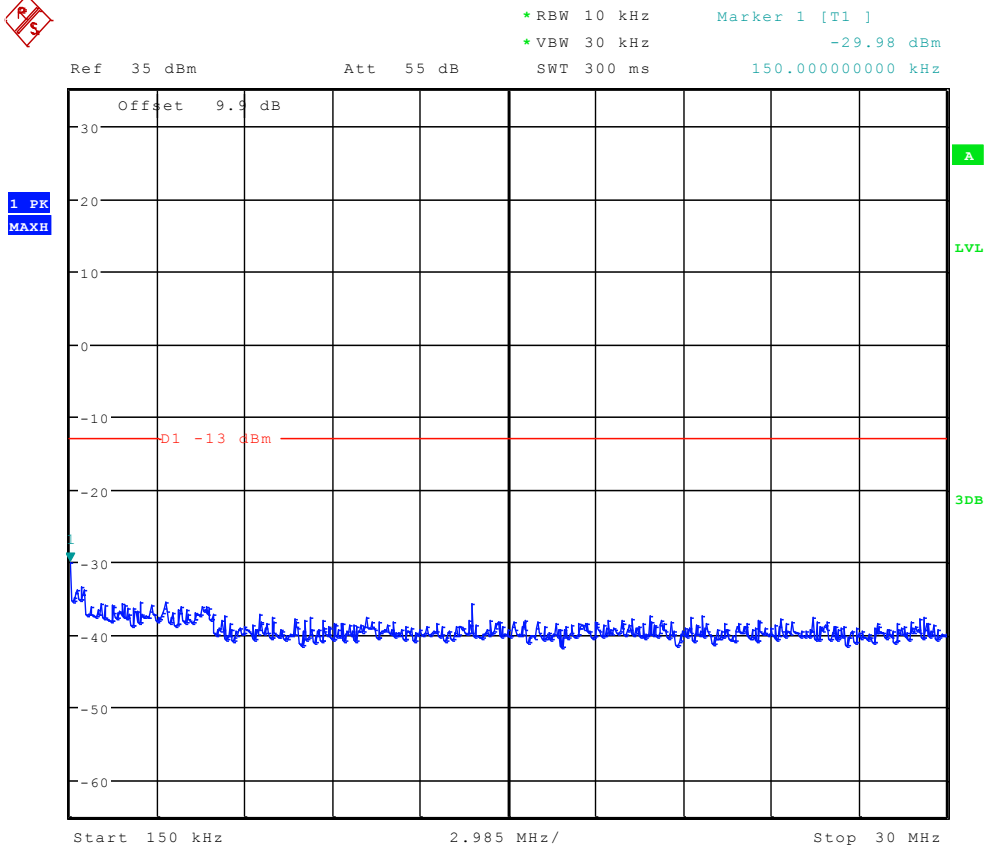
Spurious Emission at Antenna Terminal

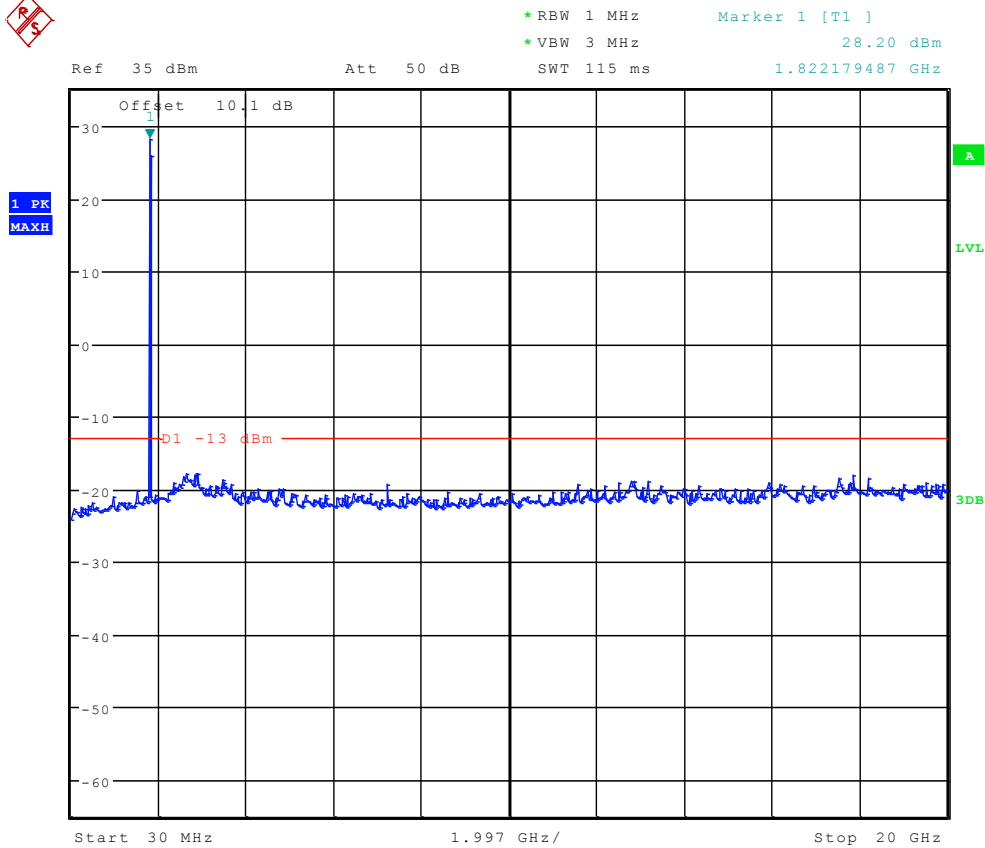
According to FCC Part 2.1051 & Part24 Subpart E
&RSS-133



TM1:GPRS/GSM Channel 512

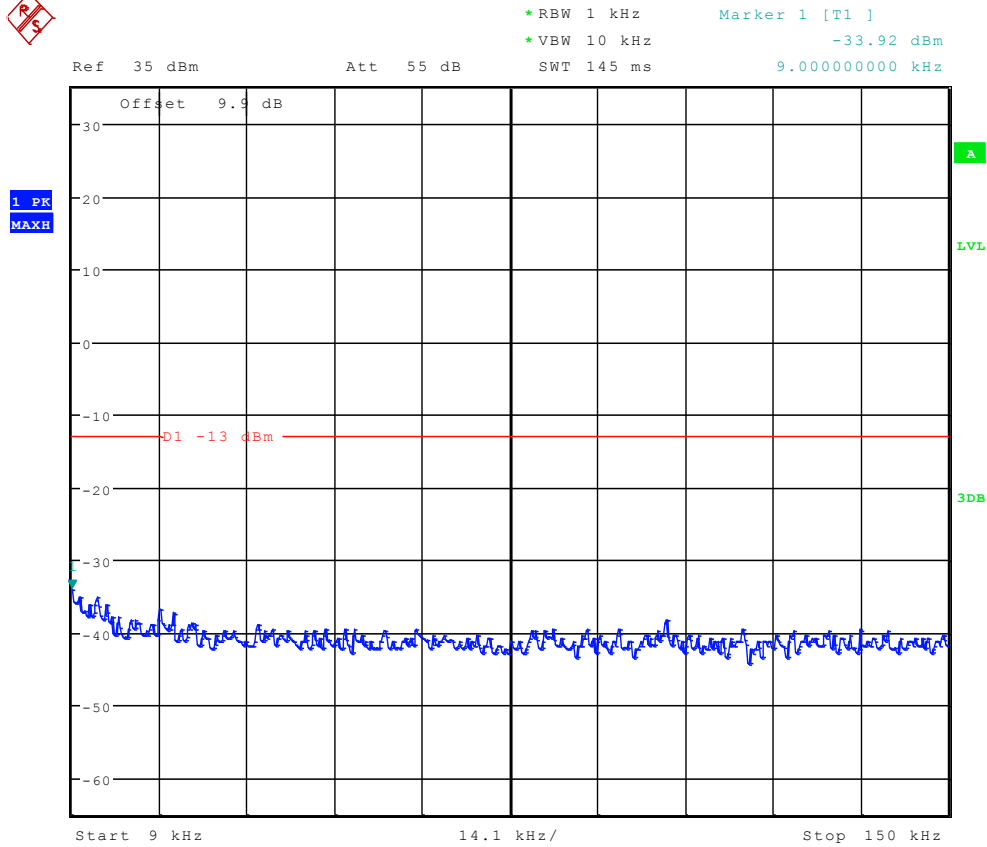


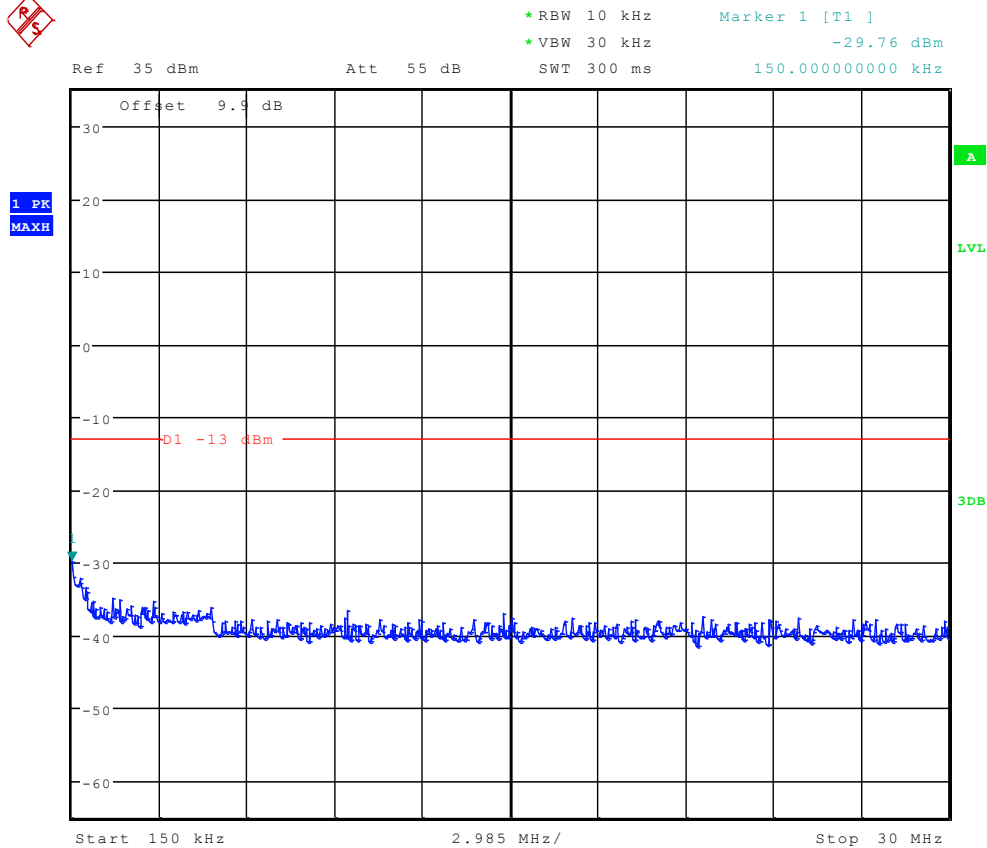


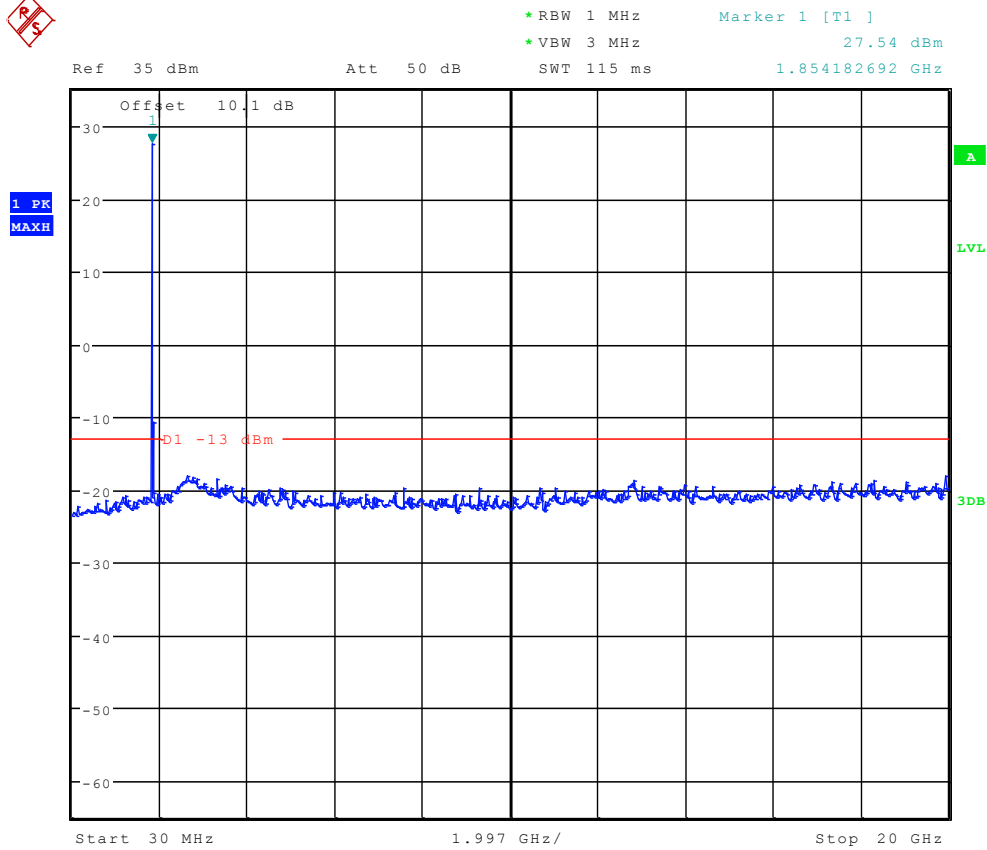




Channel 661

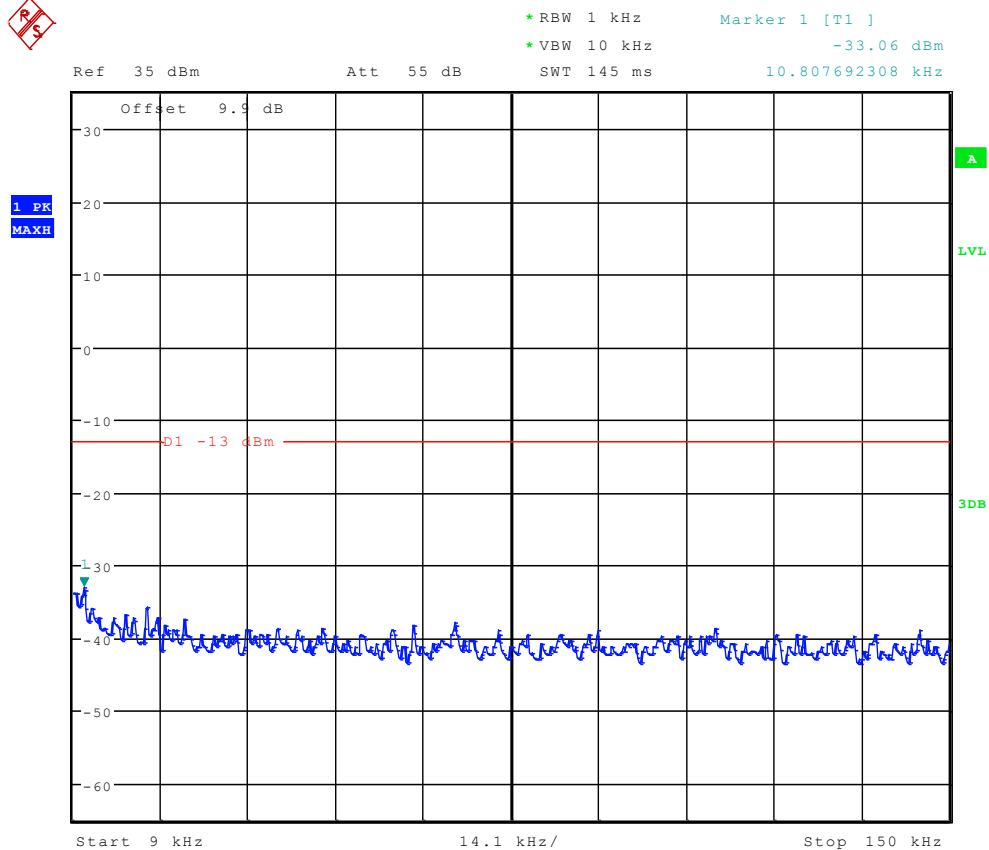


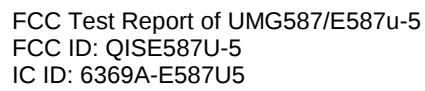






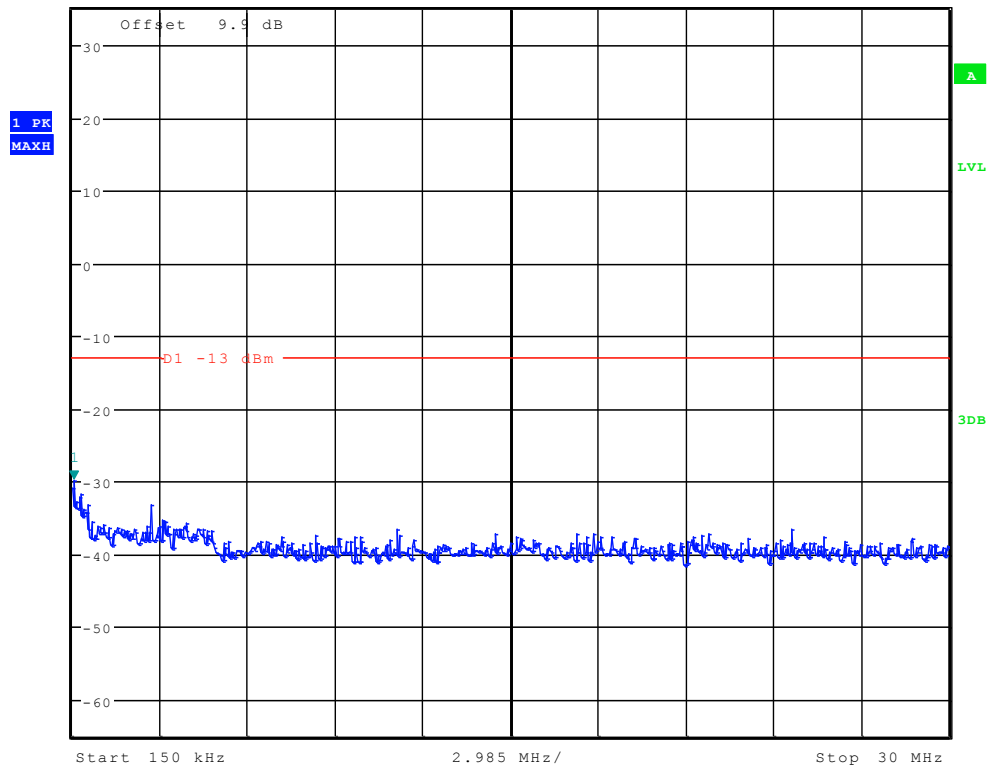
Channel 810

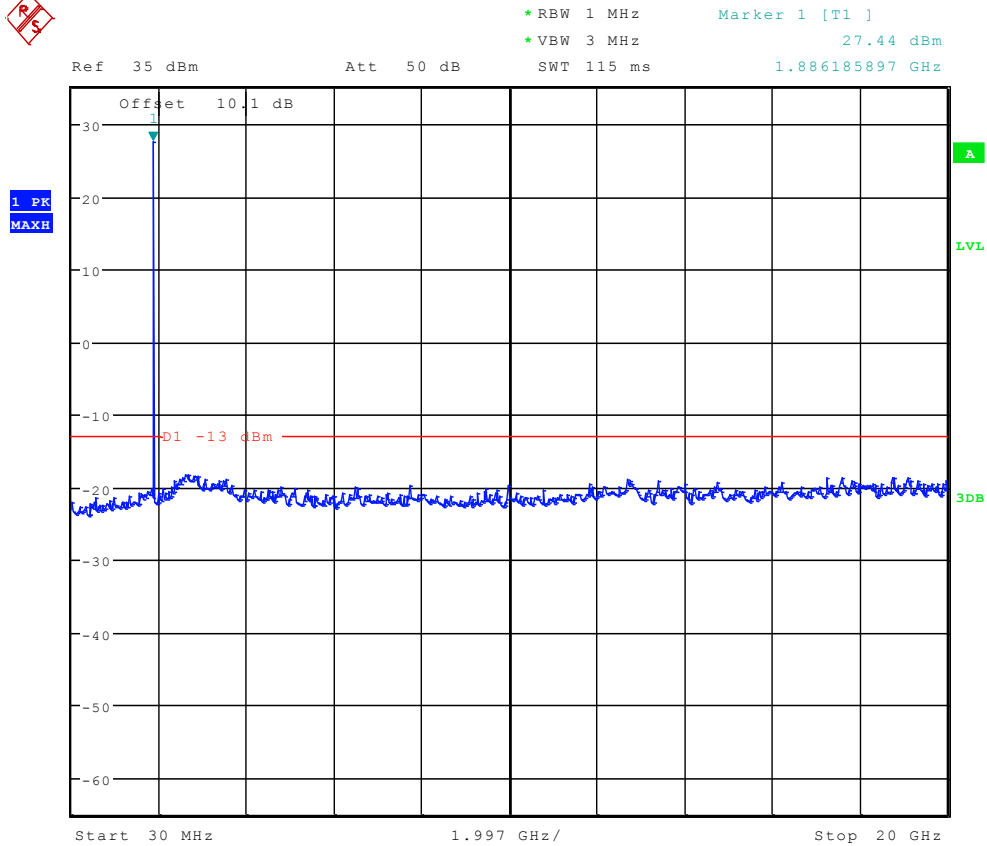




```
* RBW 10 kHz      Marker 1 [T1 ]
* VBW 30 kHz      -29.87 dBm
  SWT 300 ms      197.836538462 kHz
```

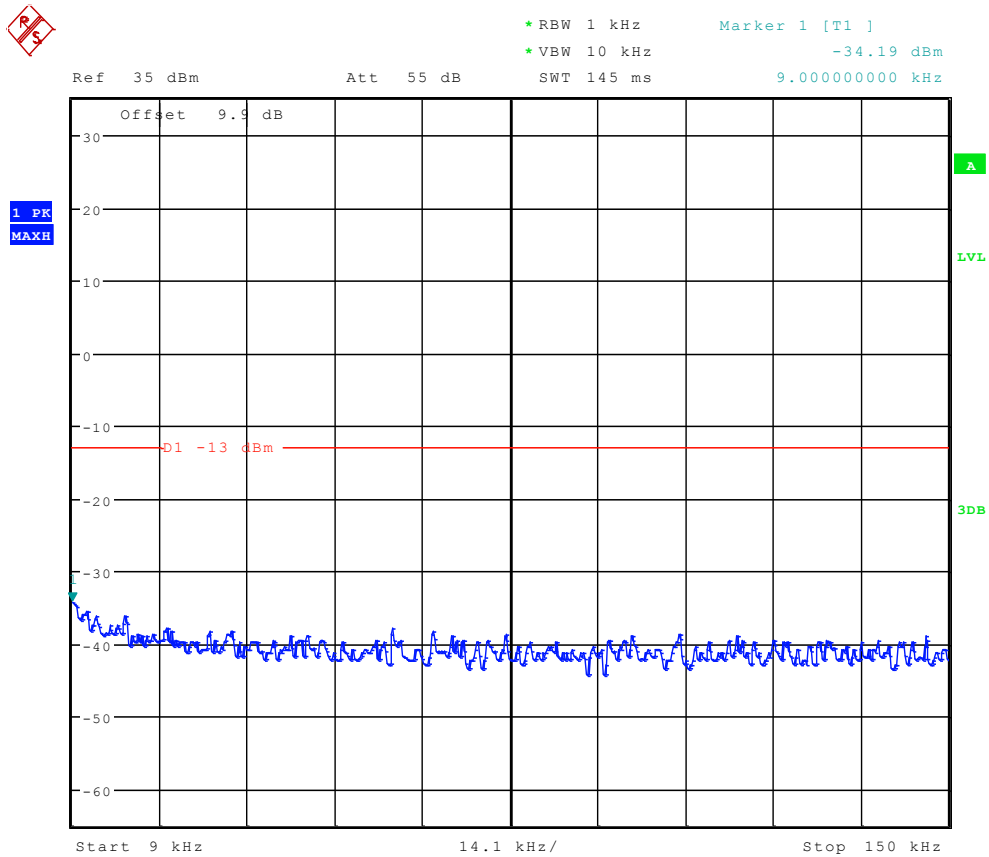
Ref	35 dBm	Att	55 dB	SWT	300 ms	197.836538462 kHz
-----	--------	-----	-------	-----	--------	-------------------

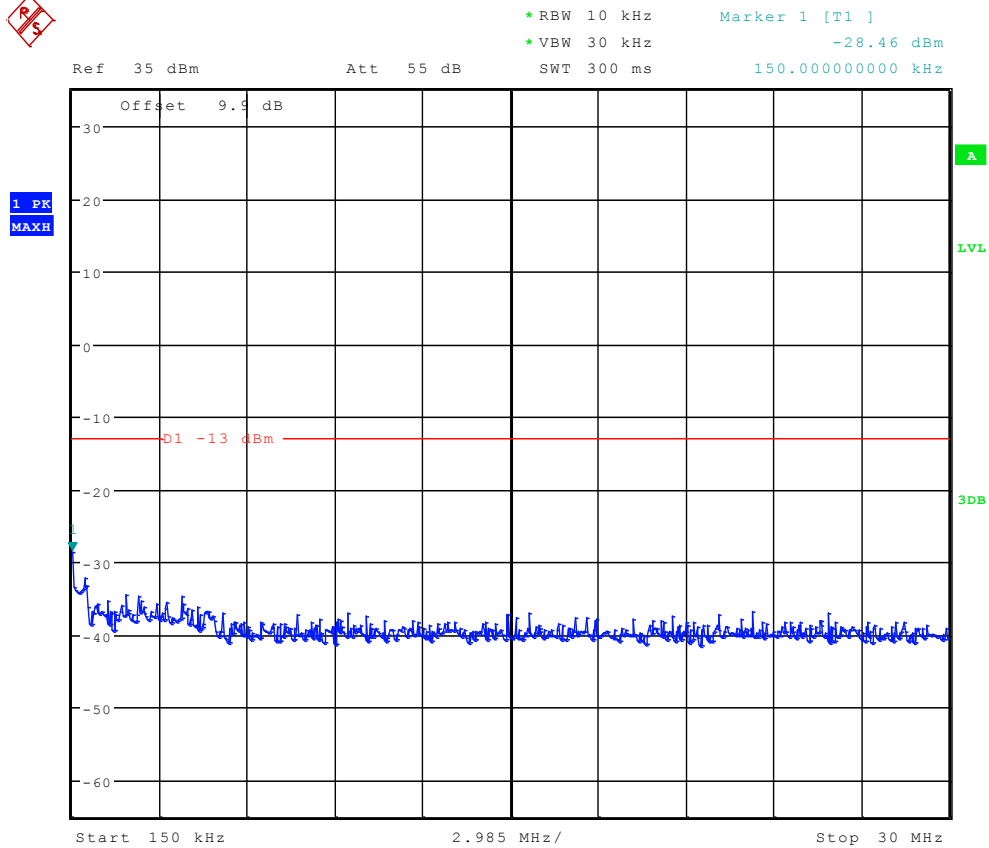


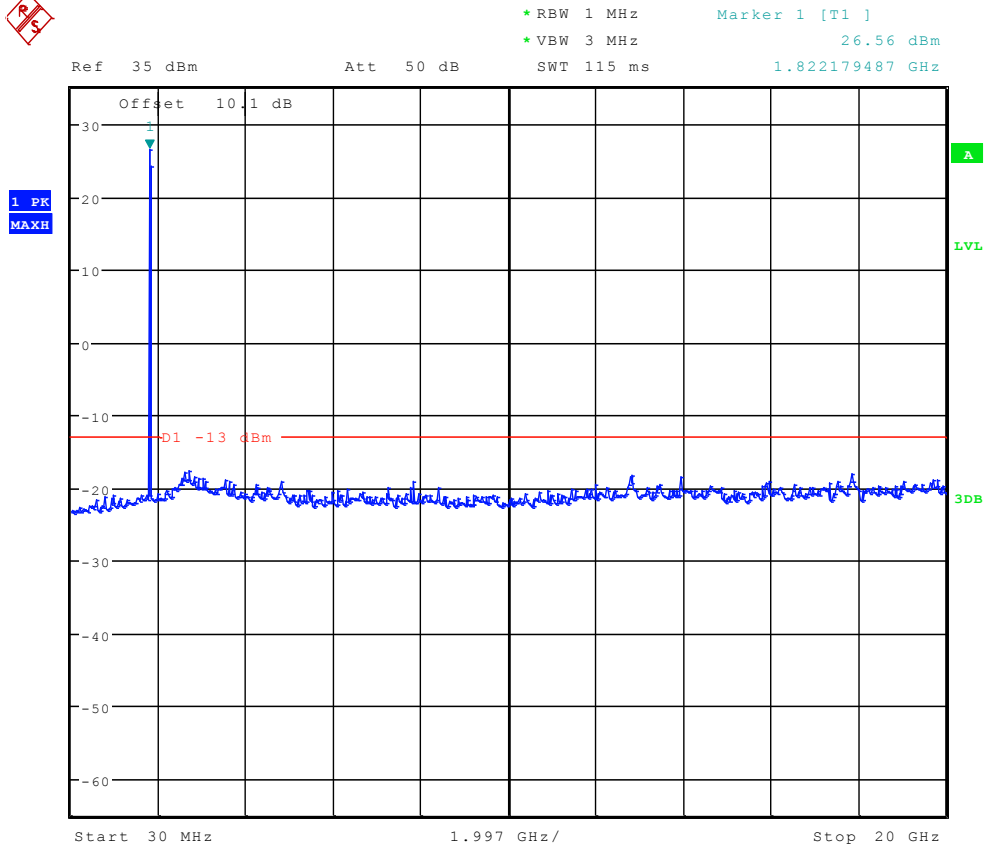




TM2:EDGE Channel 512

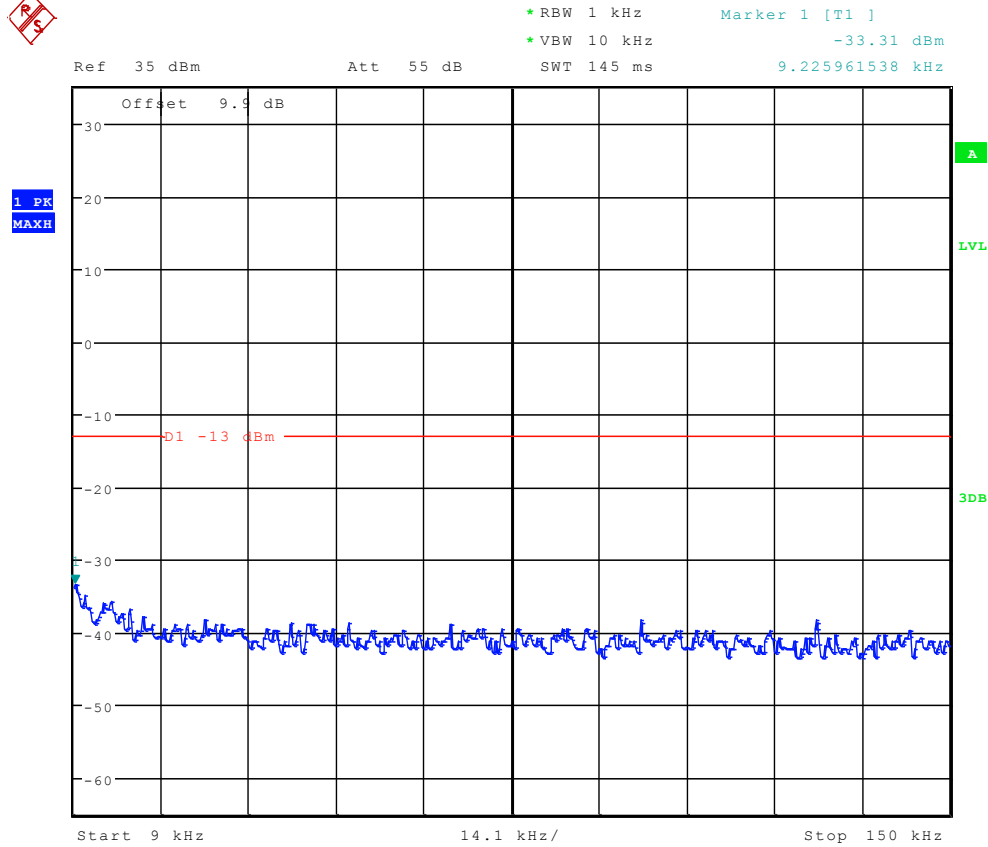


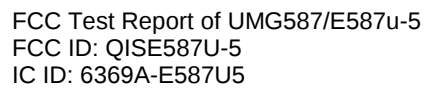




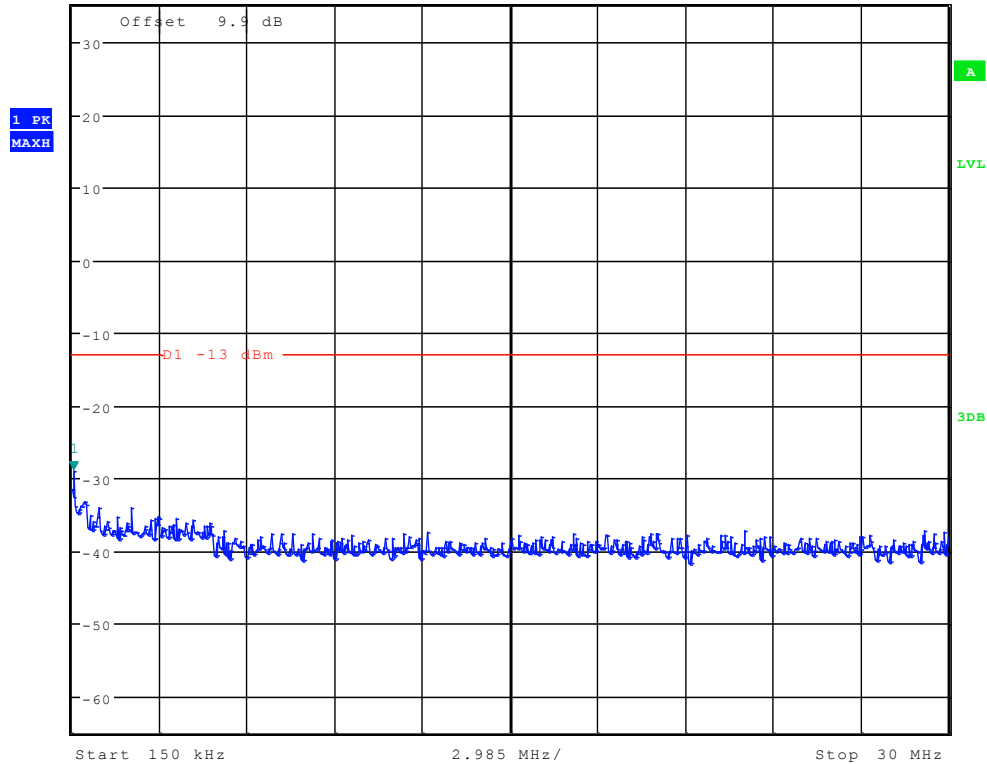


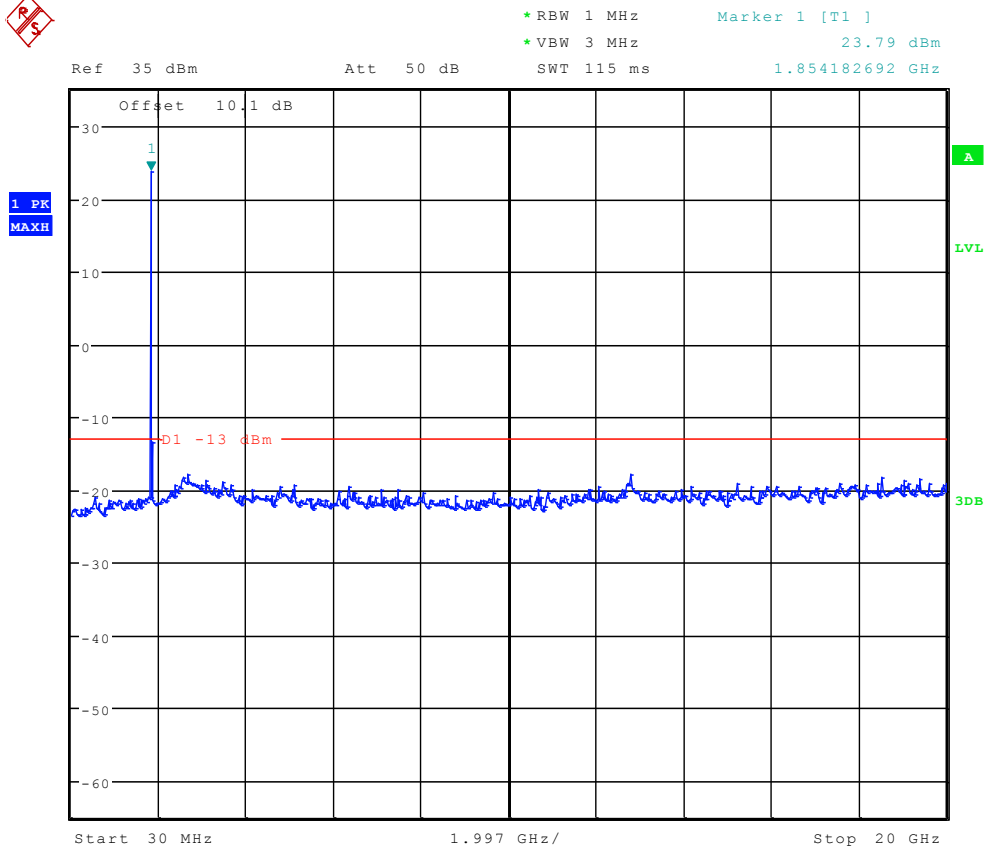
Channel 661





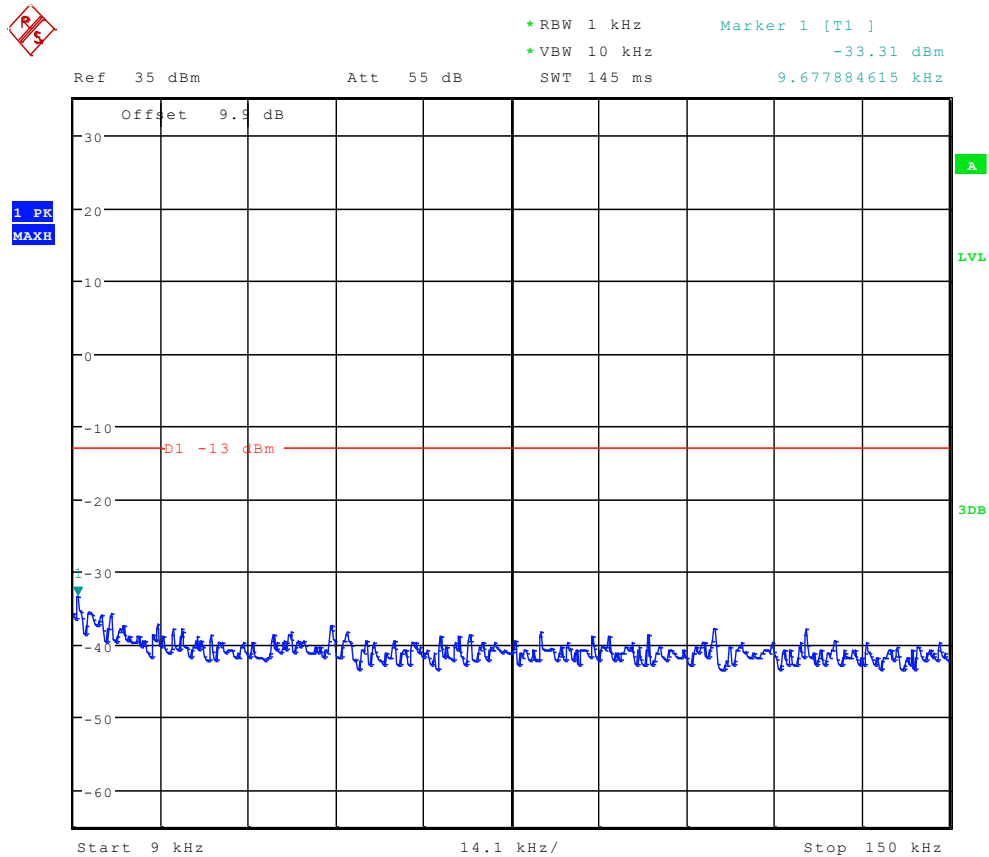
Ref 35 dBm Att 55 dB SWT 300 ms 197.836538462 kHz

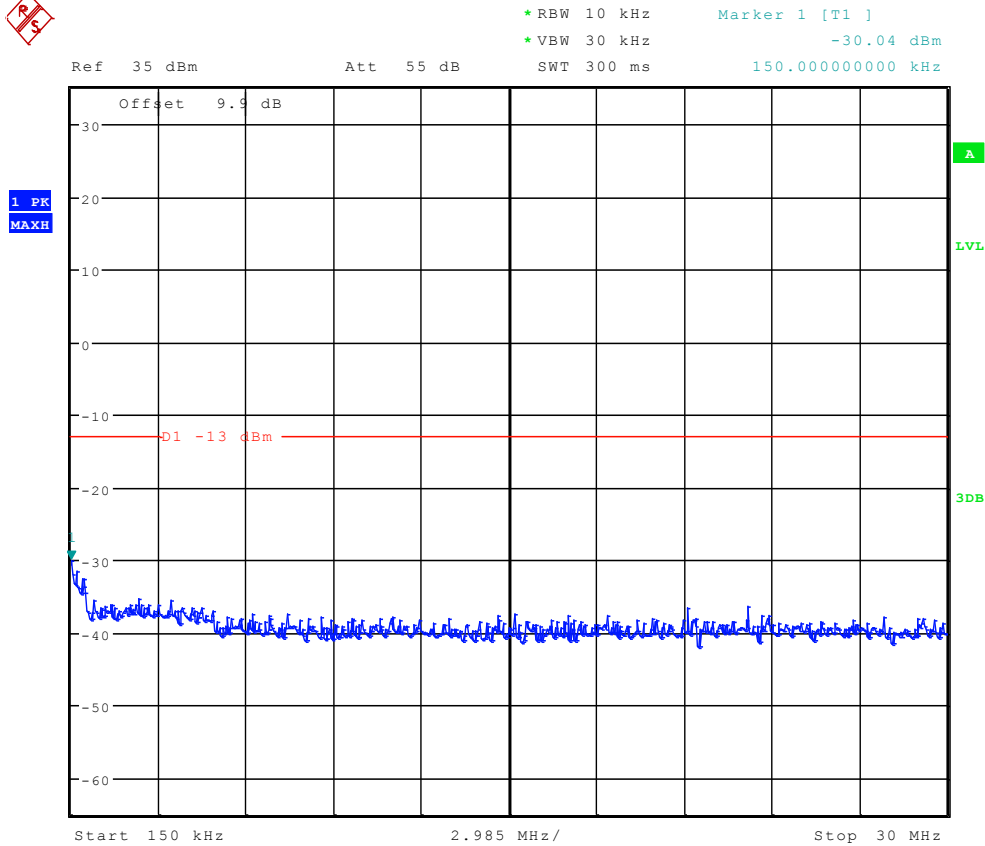


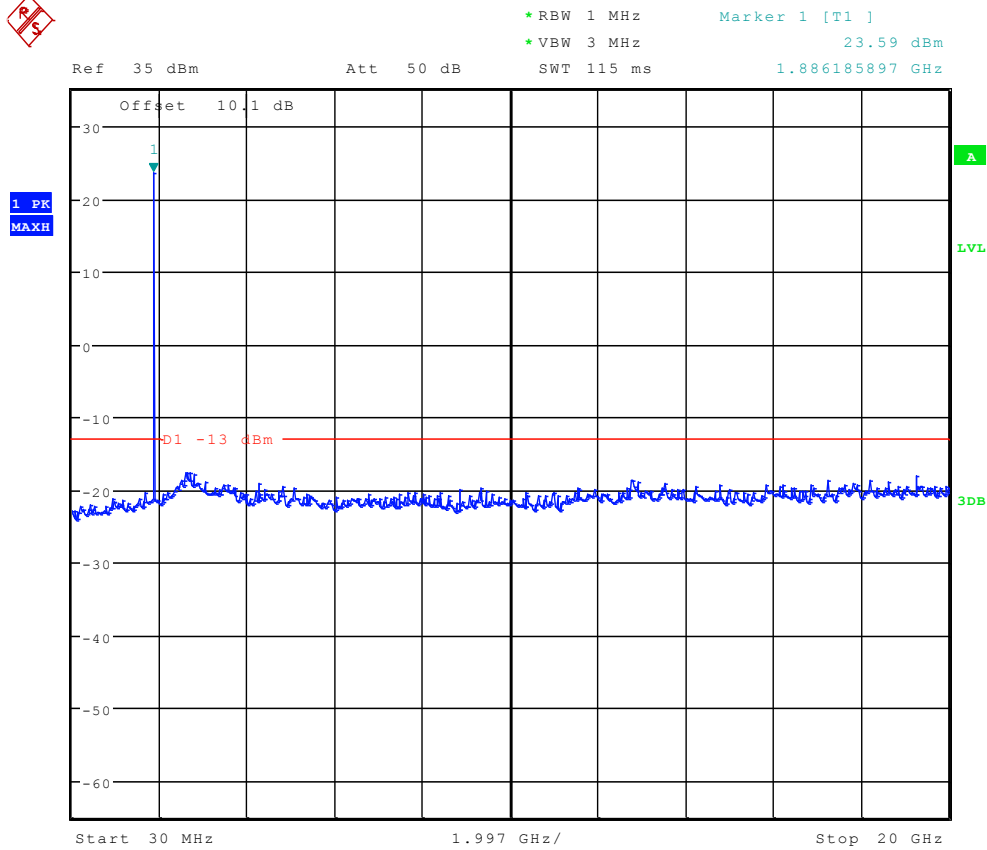




Channel 810



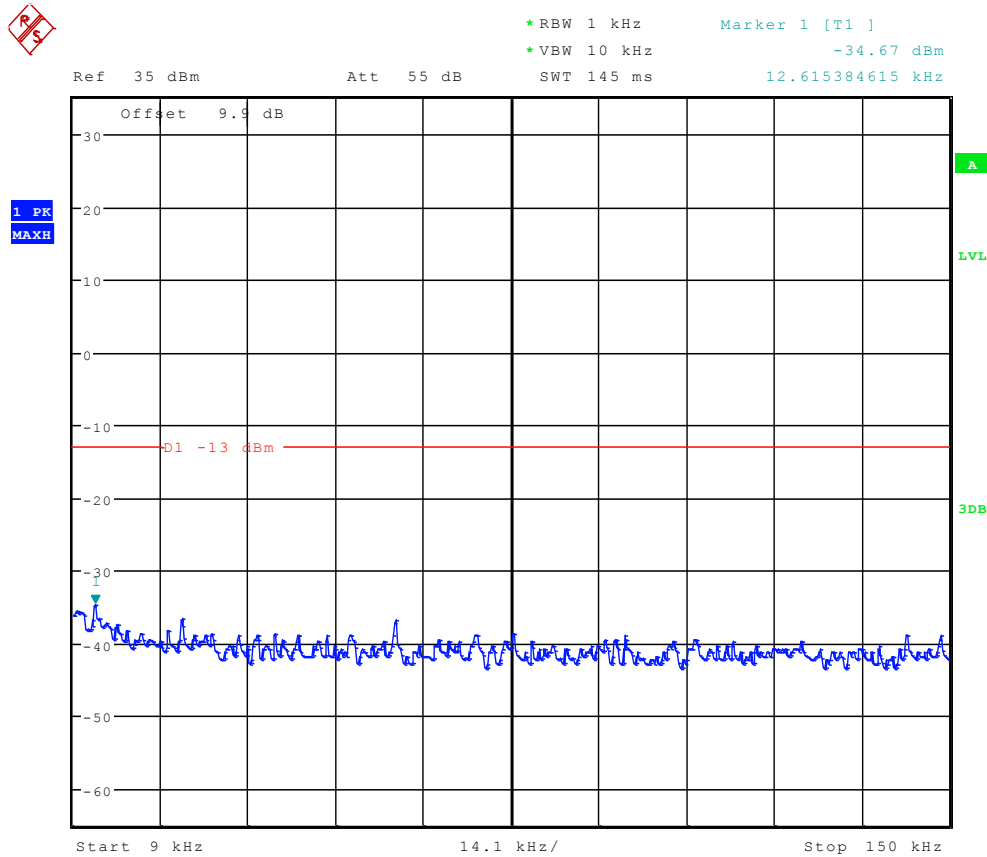


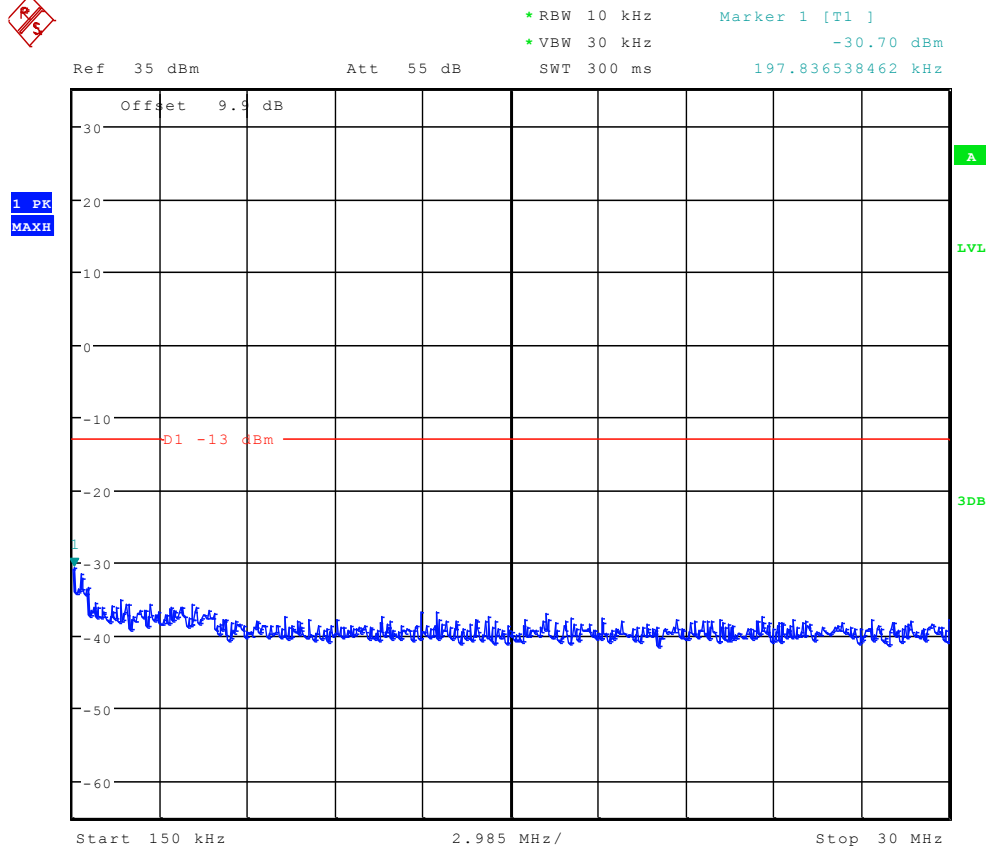


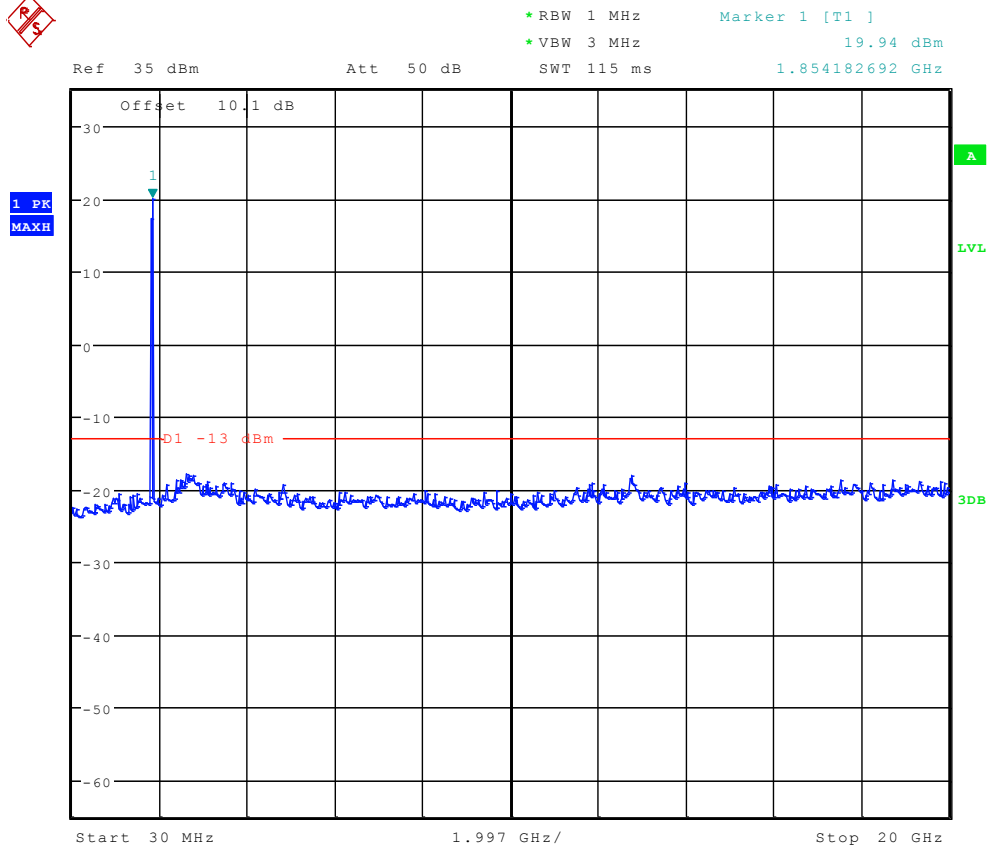


TM3: WCDMA

Channel 9262

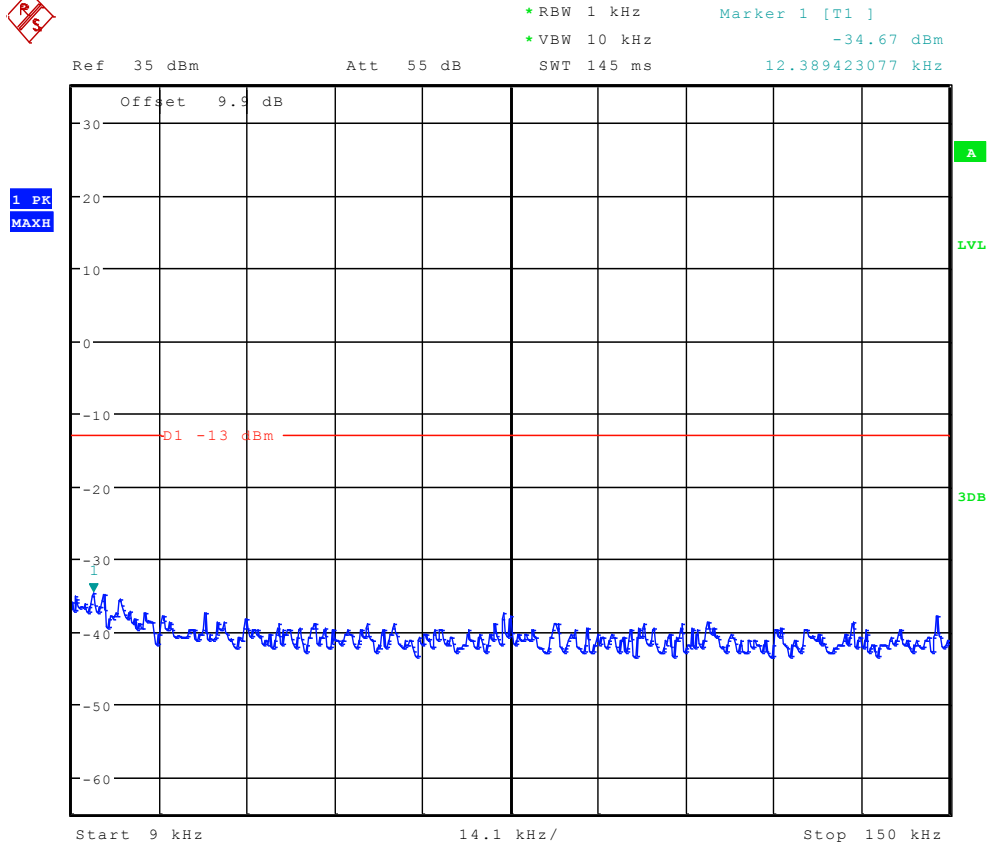


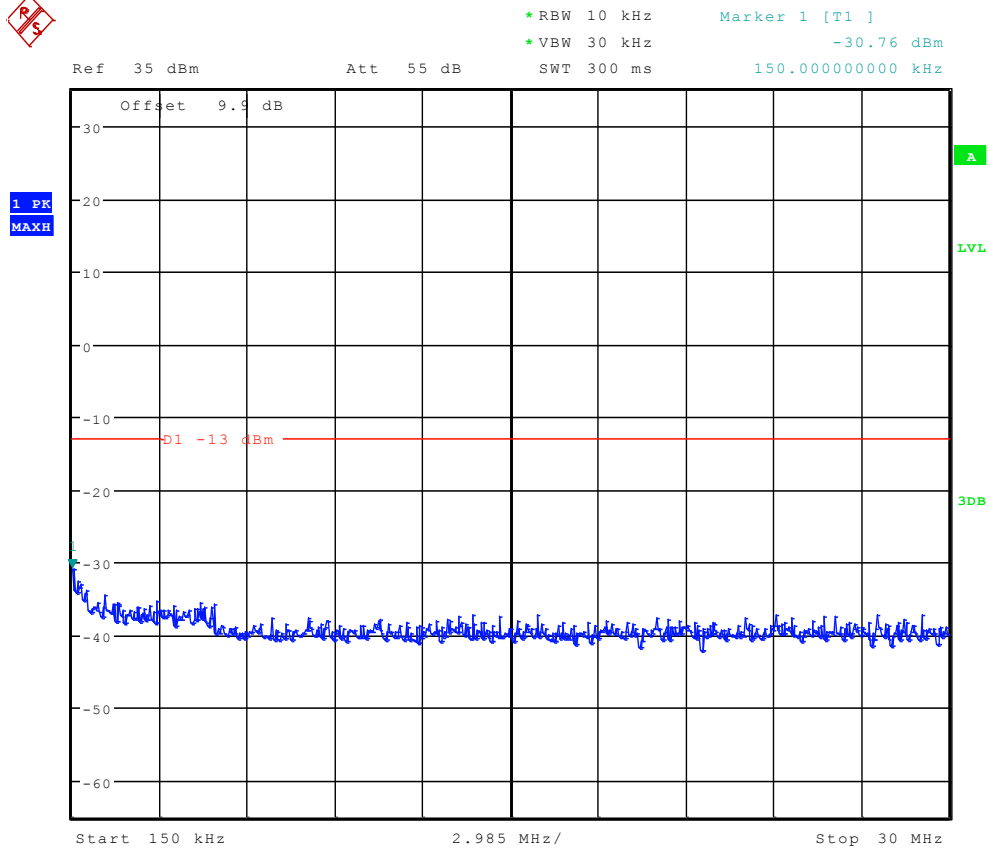


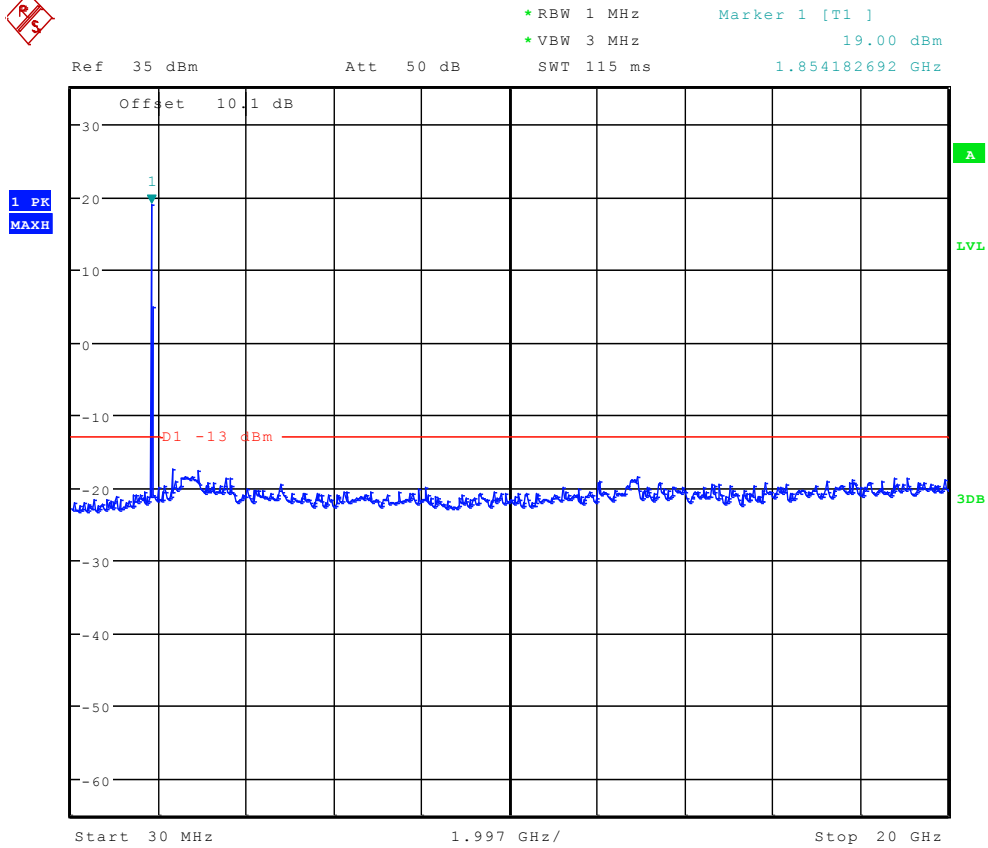




Channel 9400

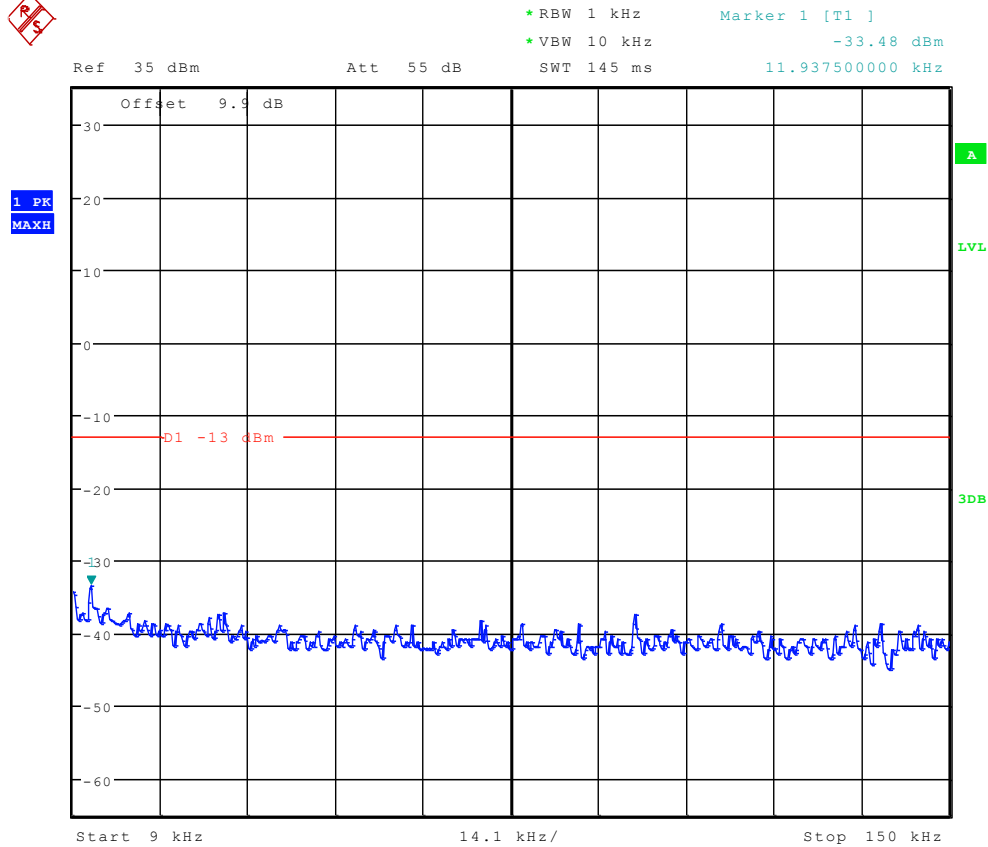


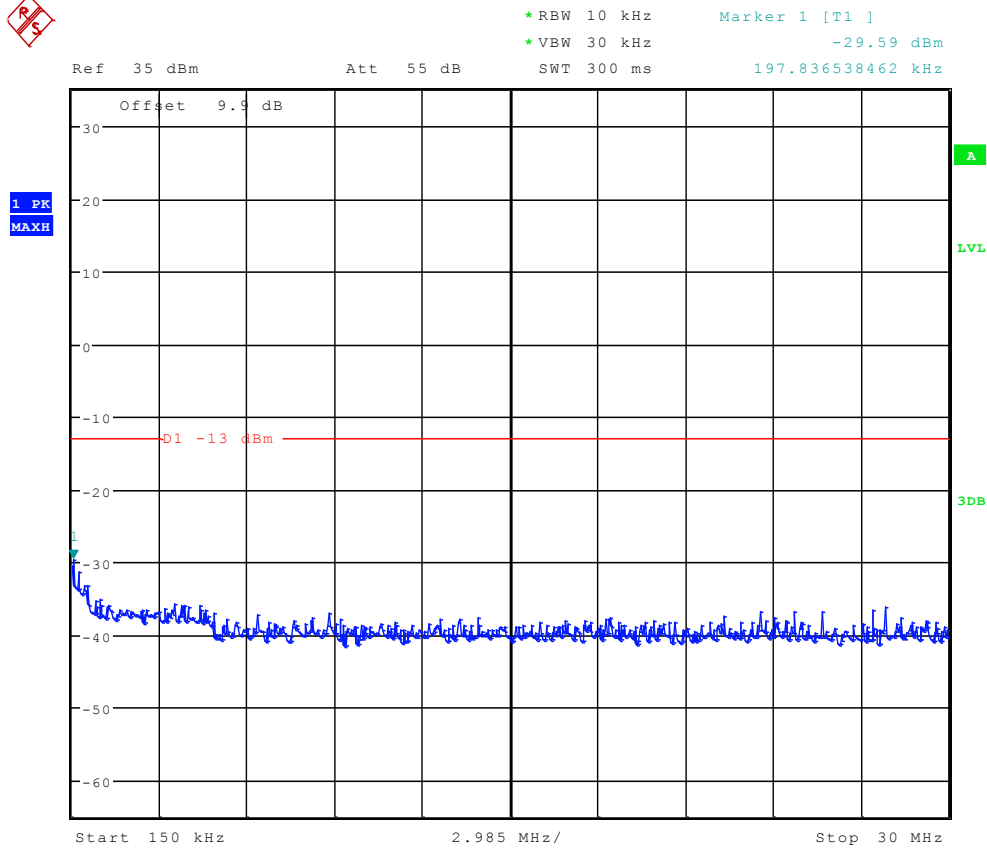


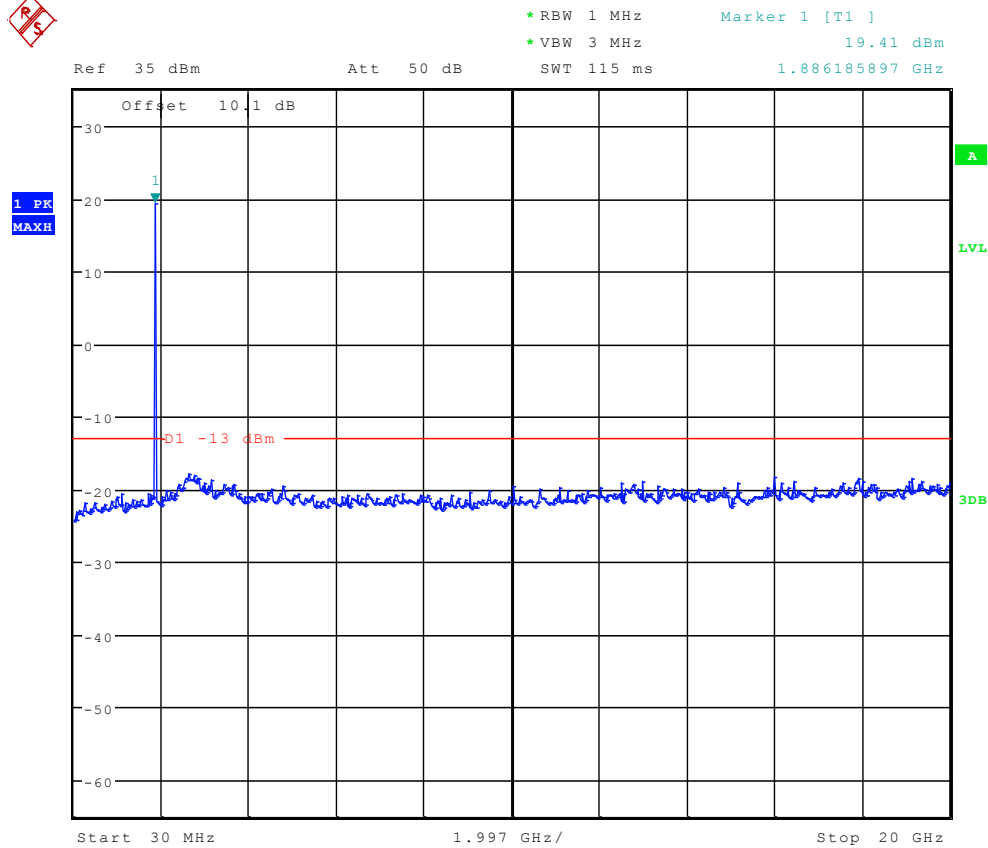




Channel 9538









AppendixE

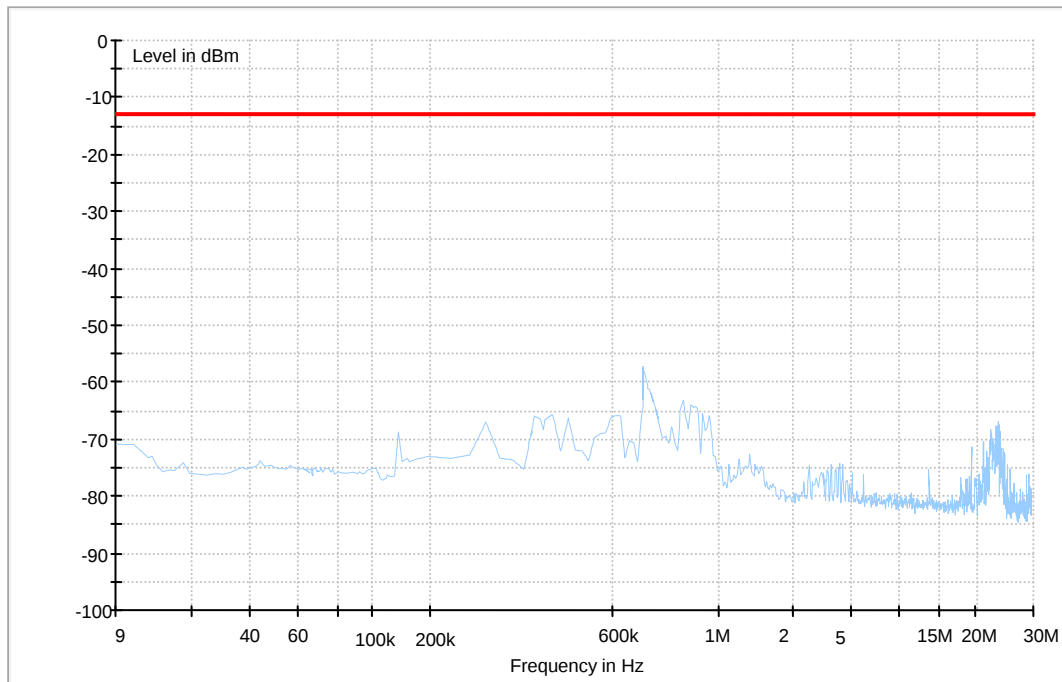
Field Strength of Spurious Emissions

According to FCC Part 2.1053 & Part24.238
& RSS-133



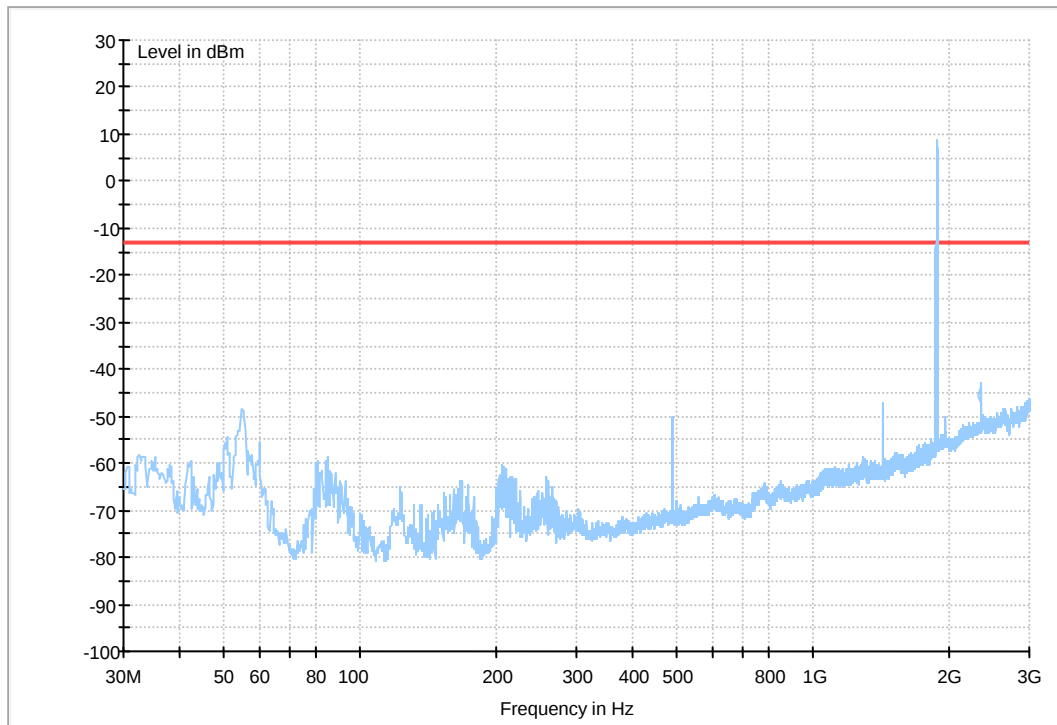
GPRS 1900

Traffic Mode (9kHz-30MHz)



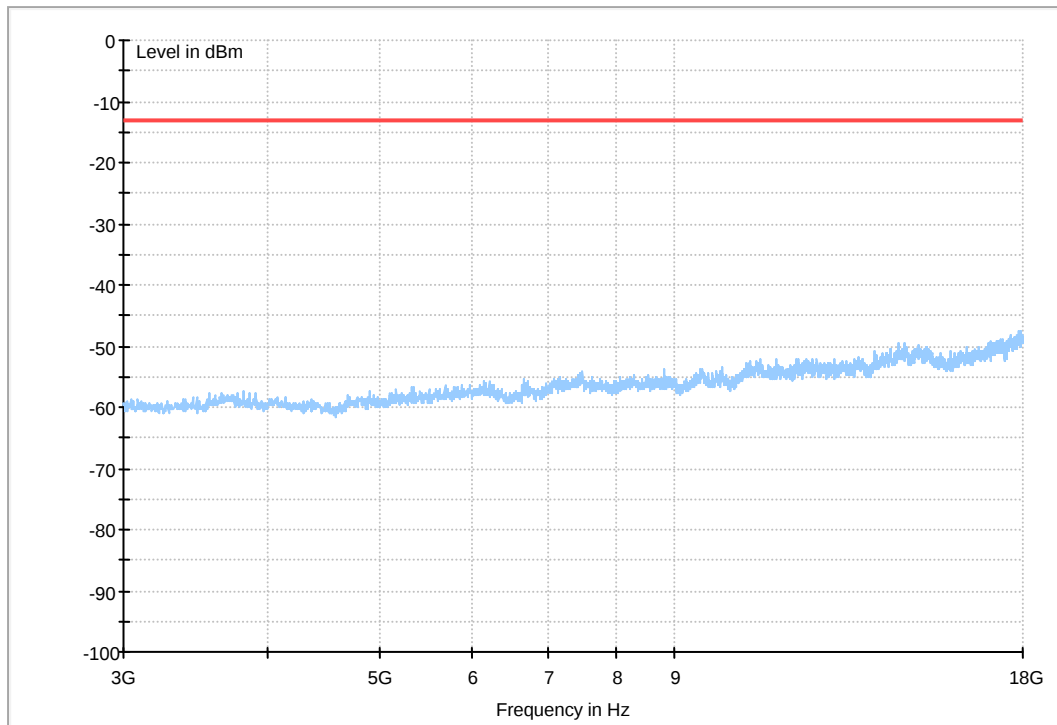


Traffic Mode (30MHz-3GHz)



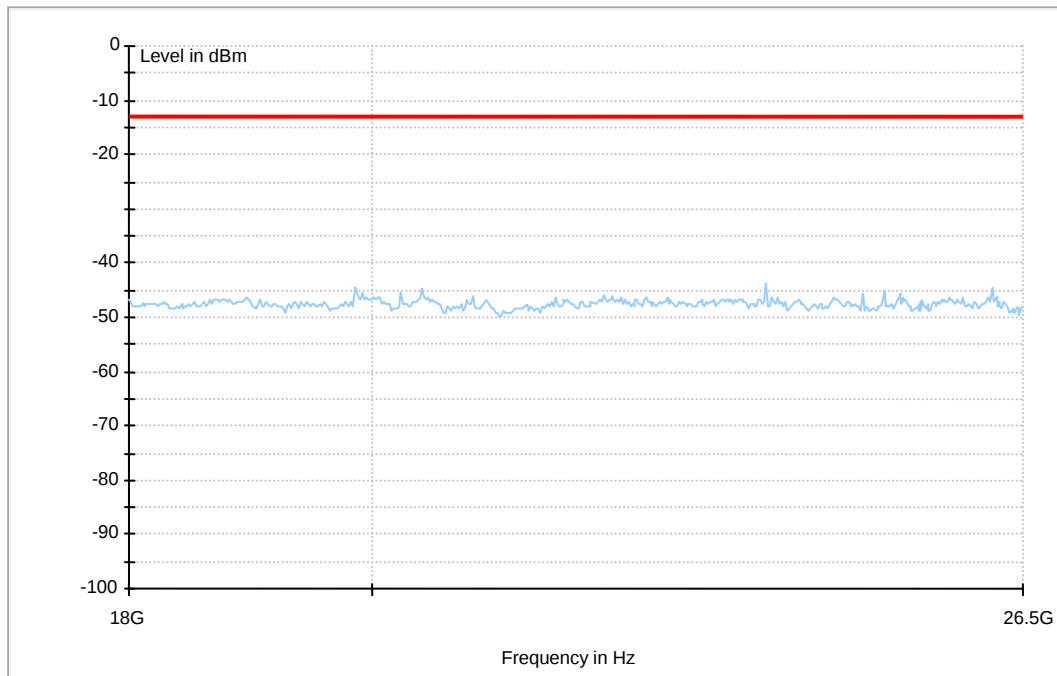


Traffic Mode (3GHz-18GHz)





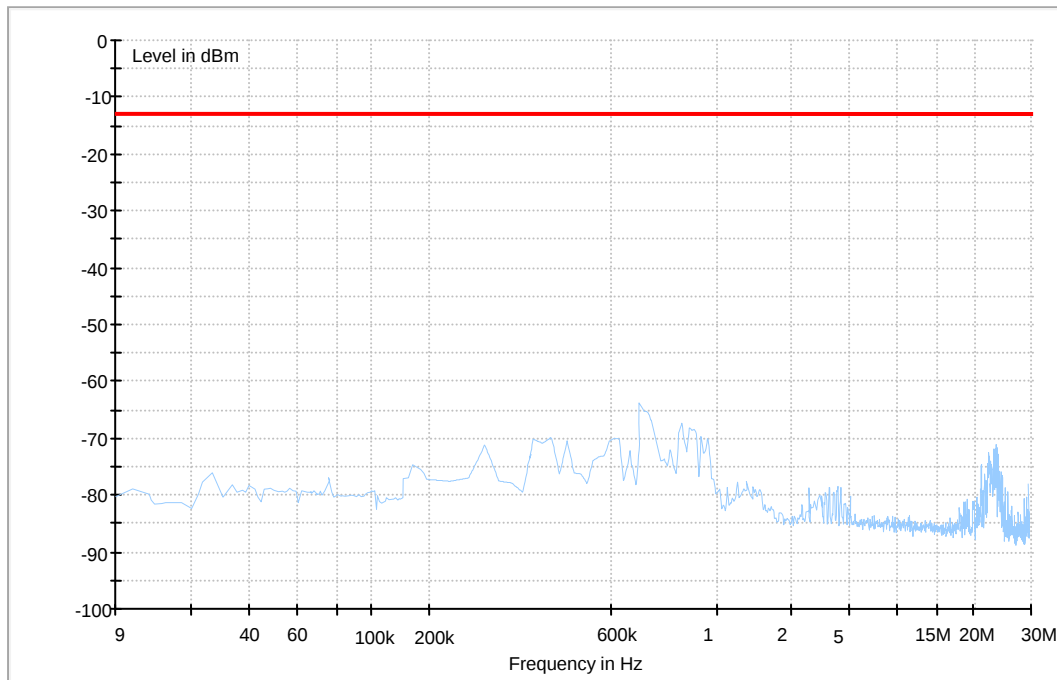
Traffic Mode (18GHz-26.5GHz)





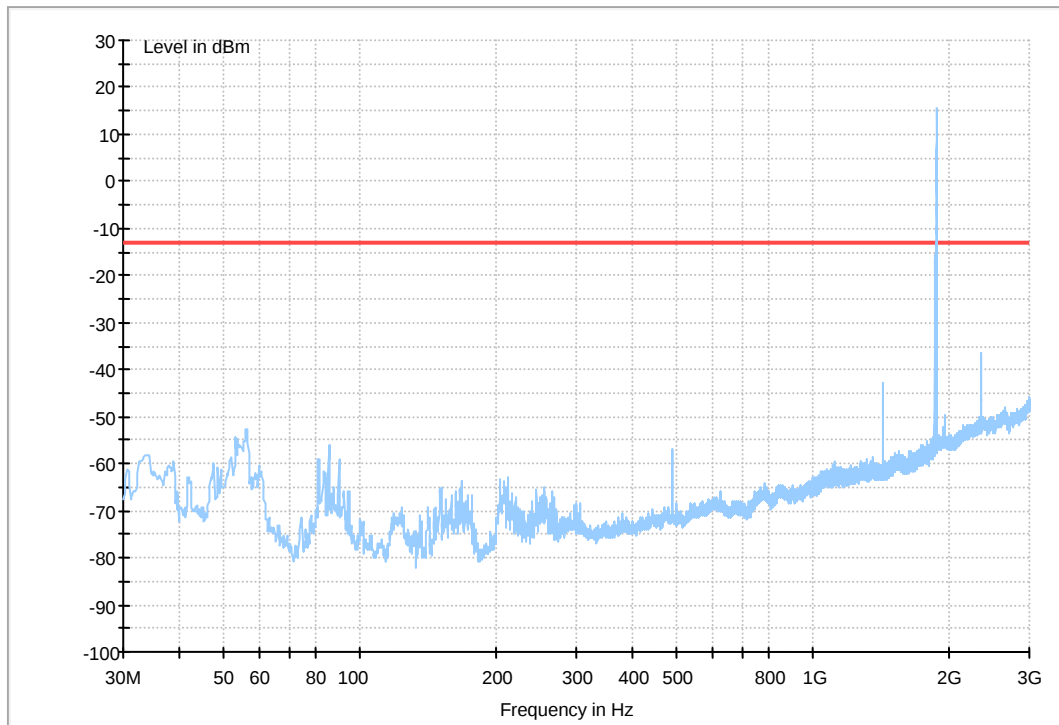
EDGE1900

Traffic Mode (9kHz-30MHz)





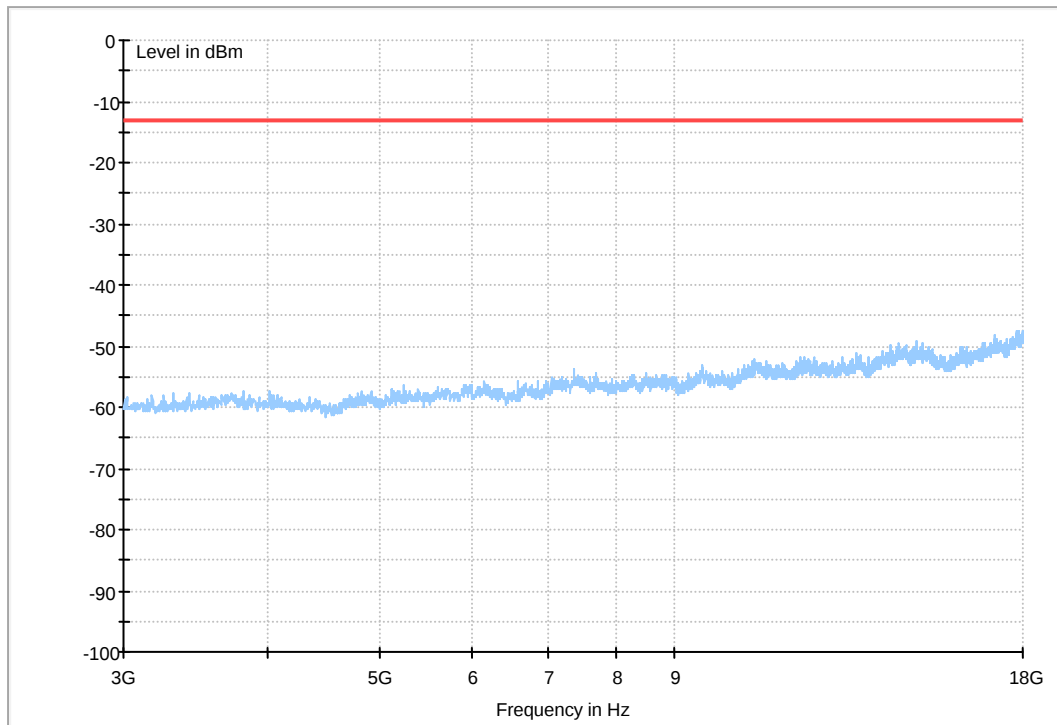
Traffic Mode (30MHz-3GHz)



Z

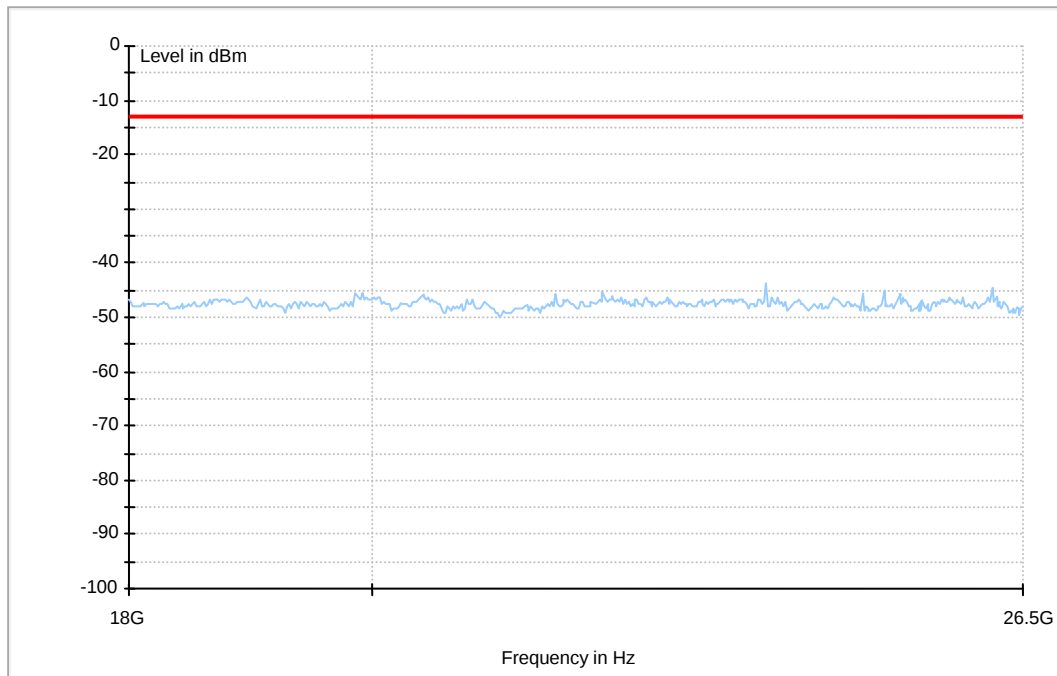


Traffic Mode (3GHz-18GHz)





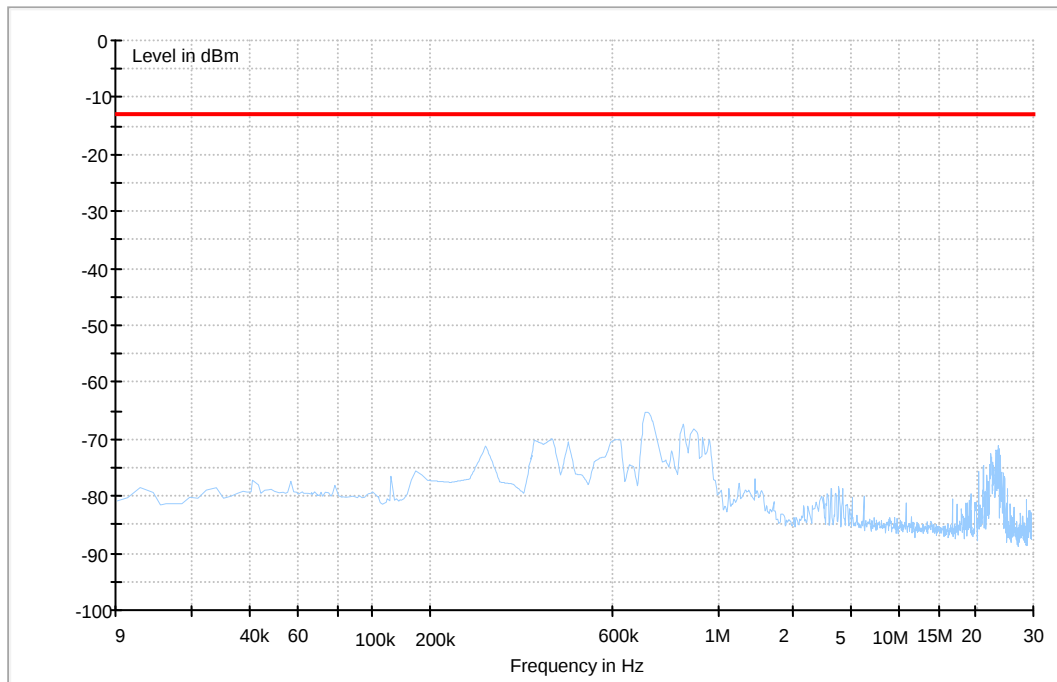
Traffic Mode (18GHz-26.5GHz)





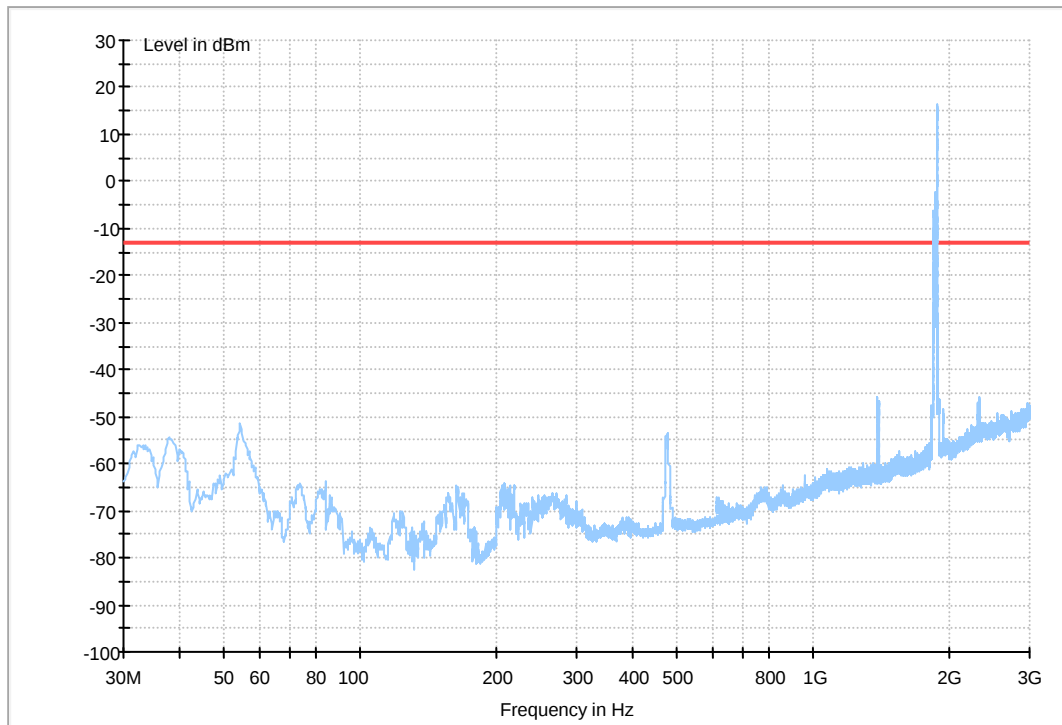
WCDMA 1900

Traffic Mode (9kHz-30MHz)



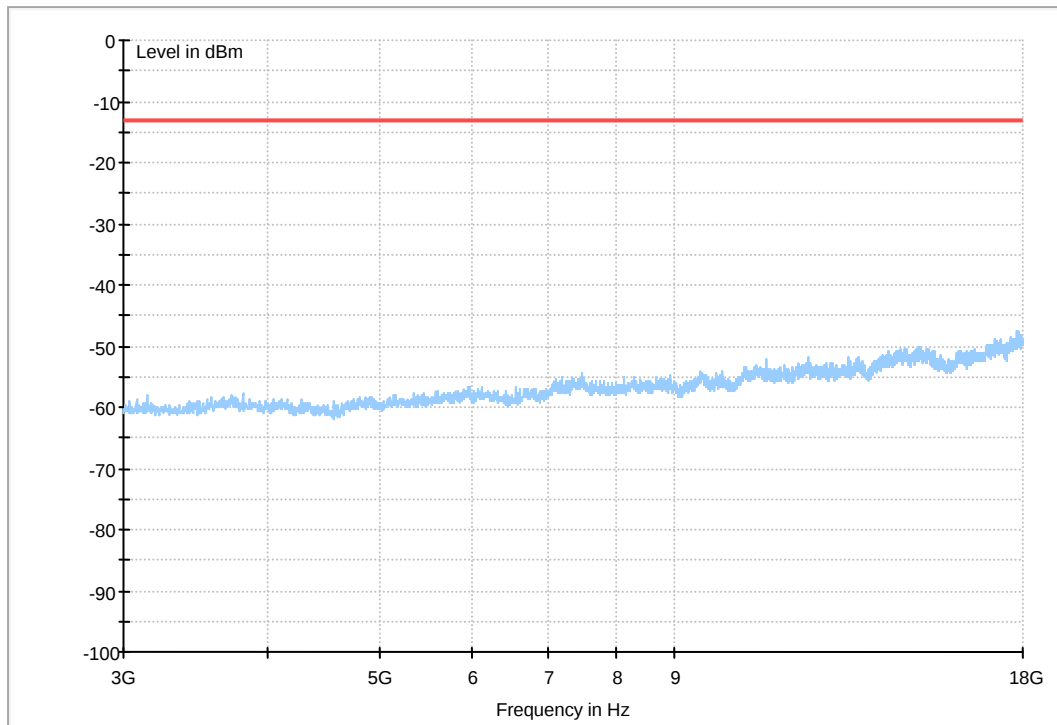


Traffic Mode (30MHz-3GHz)



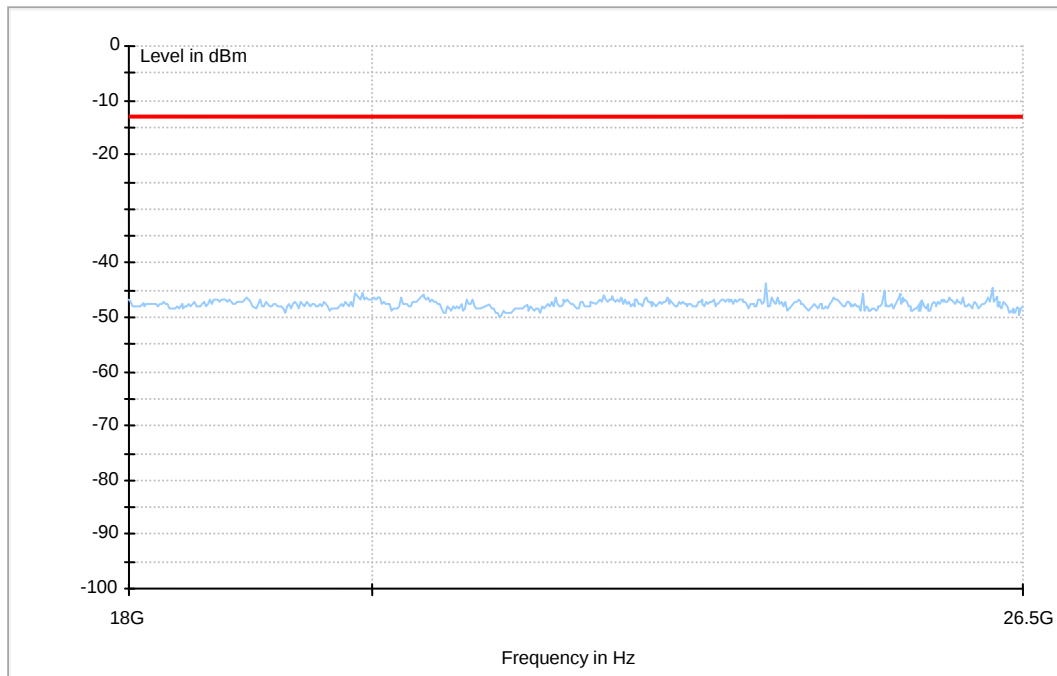


Traffic Mode (3GHz-18GHz)





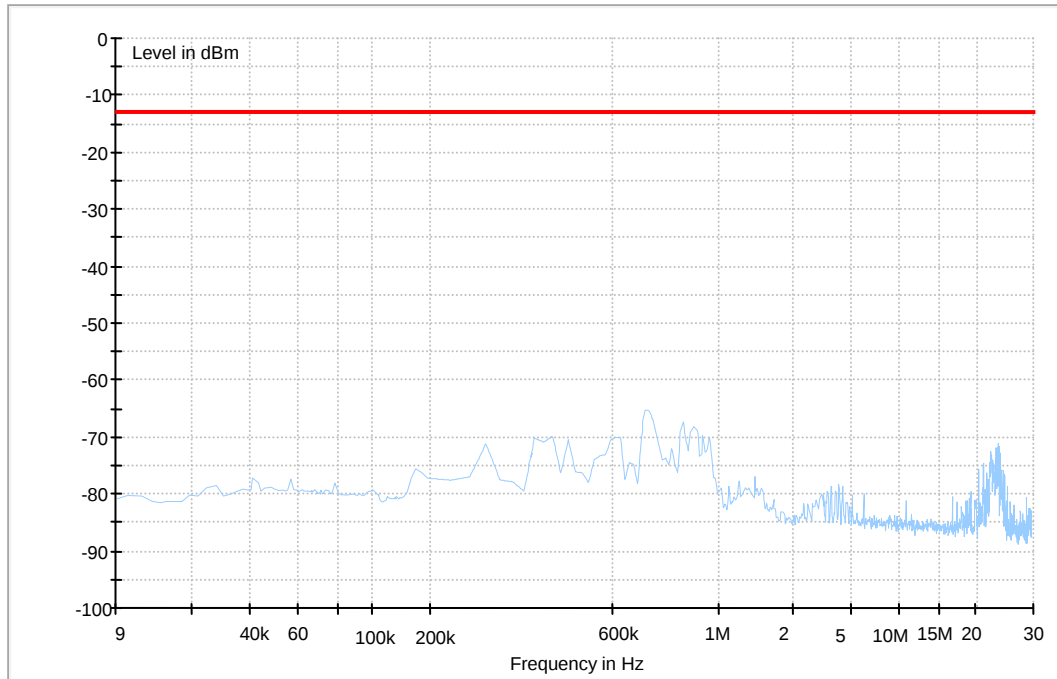
Traffic Mode (18GHz-26.5GHz)





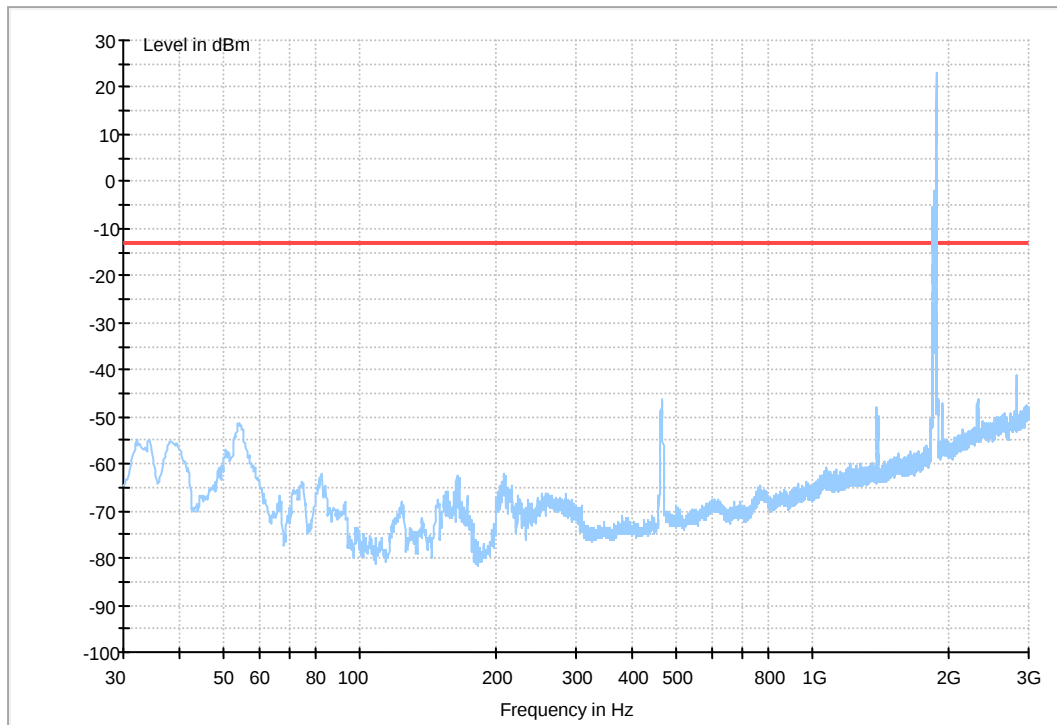
HSUPA 1900

Traffic Mode (9kHz-30MHz)



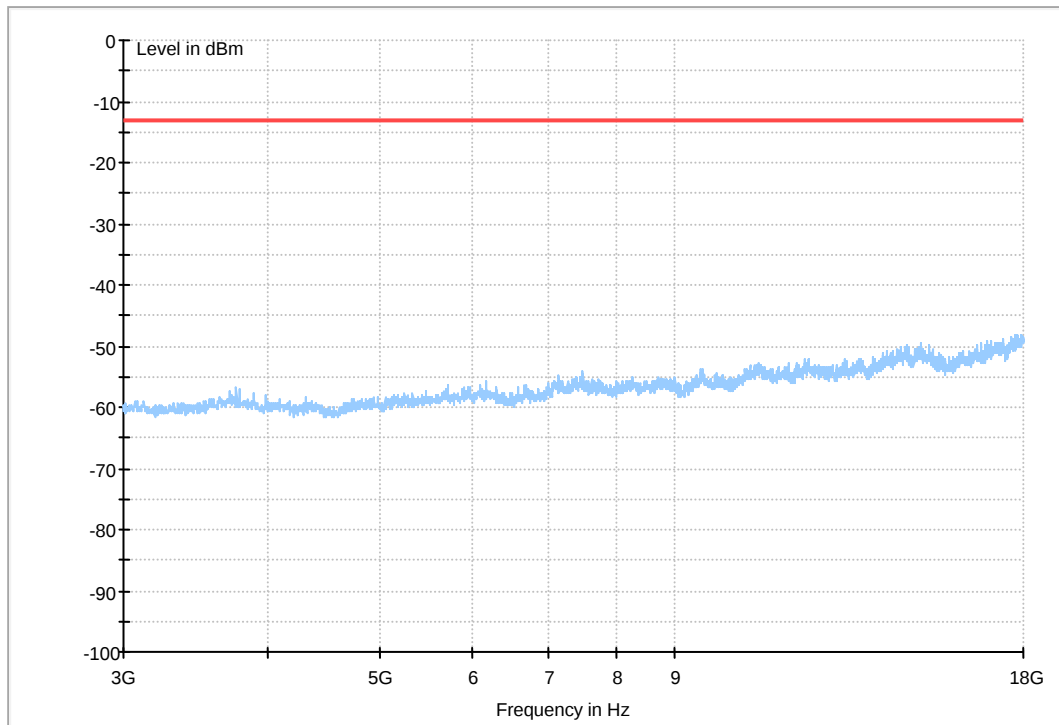


Traffic Mode (30MHz-3GHz)



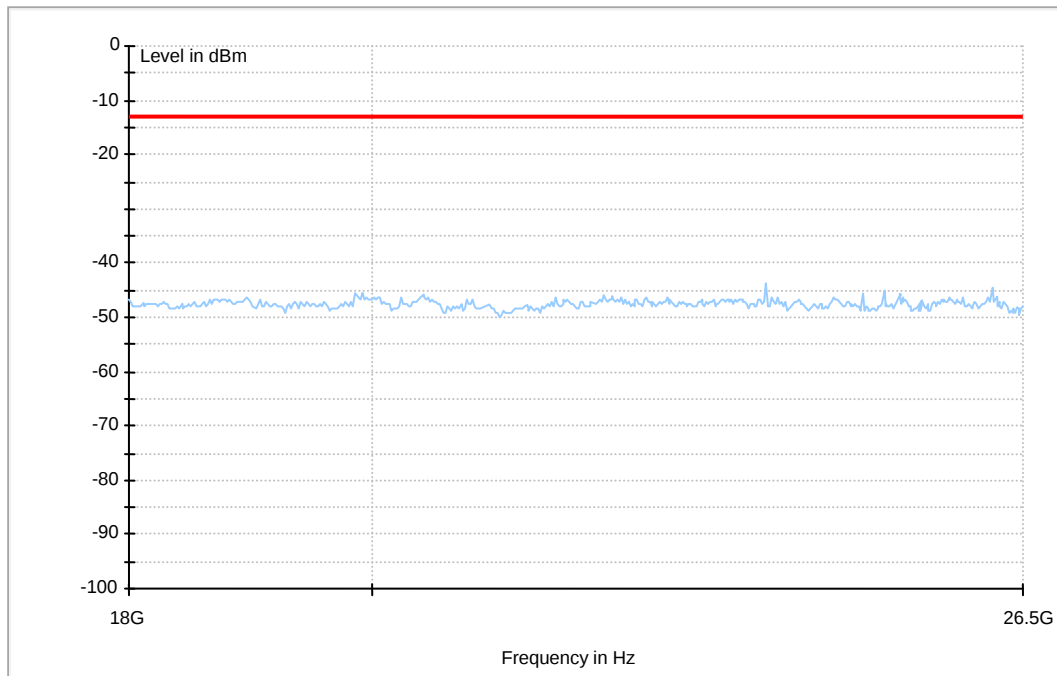


Traffic Mode (3GHz-18GHz)





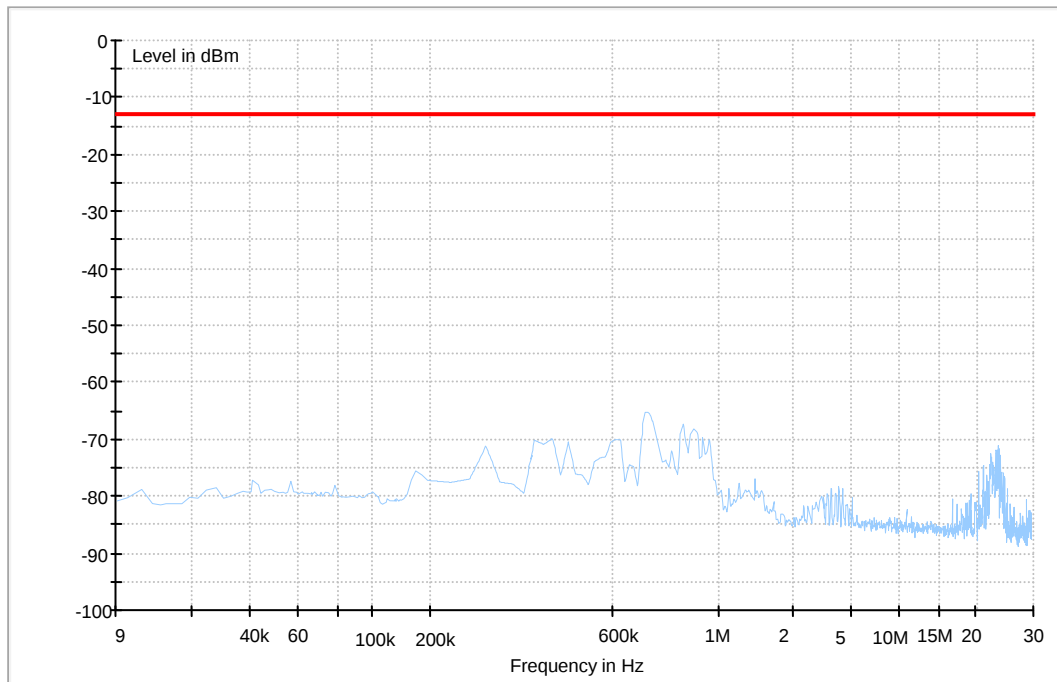
Traffic Mode (18GHz-26.5GHz)





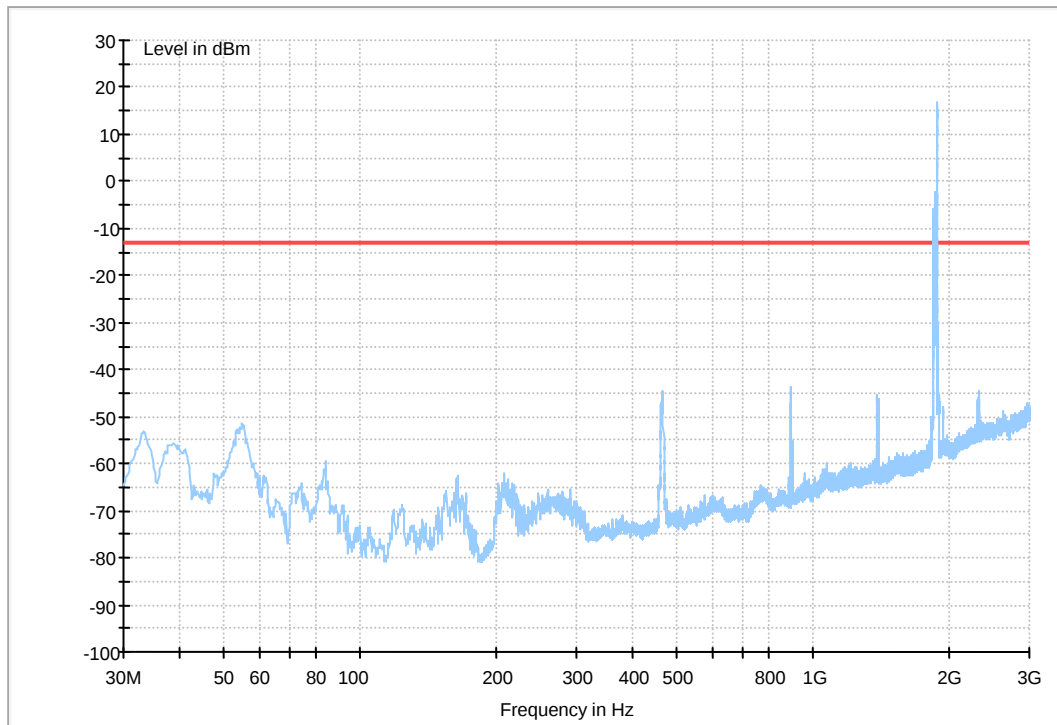
HSDPA 1900

Traffic Mode (9kHz-30MHz)



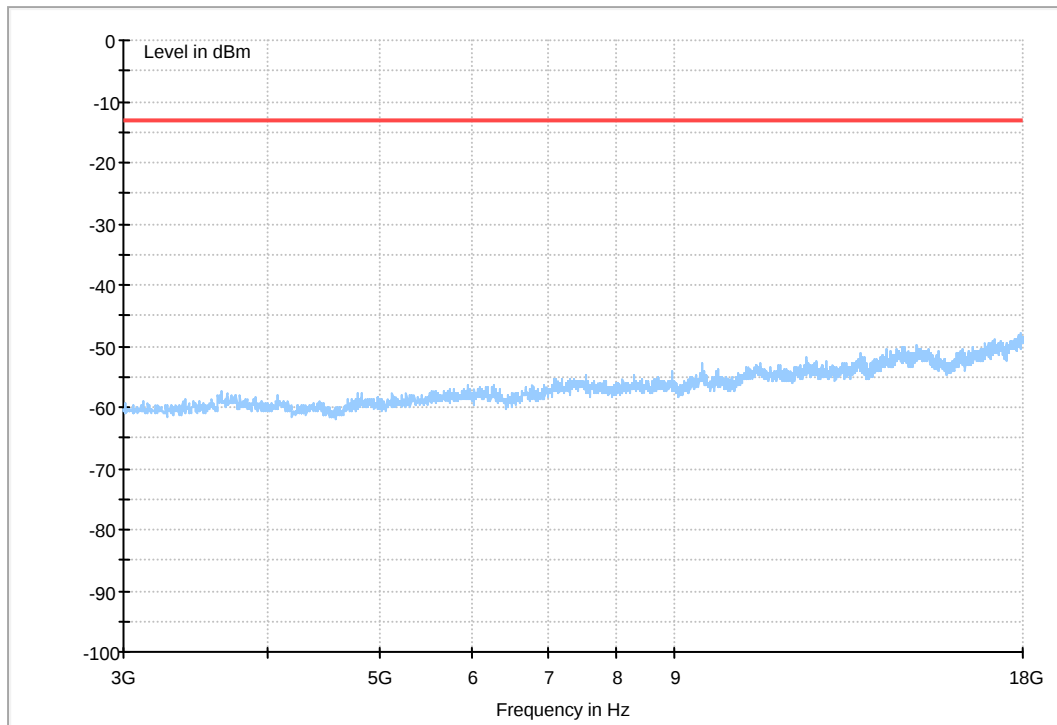


Traffic Mode (30MHz-3GHz)



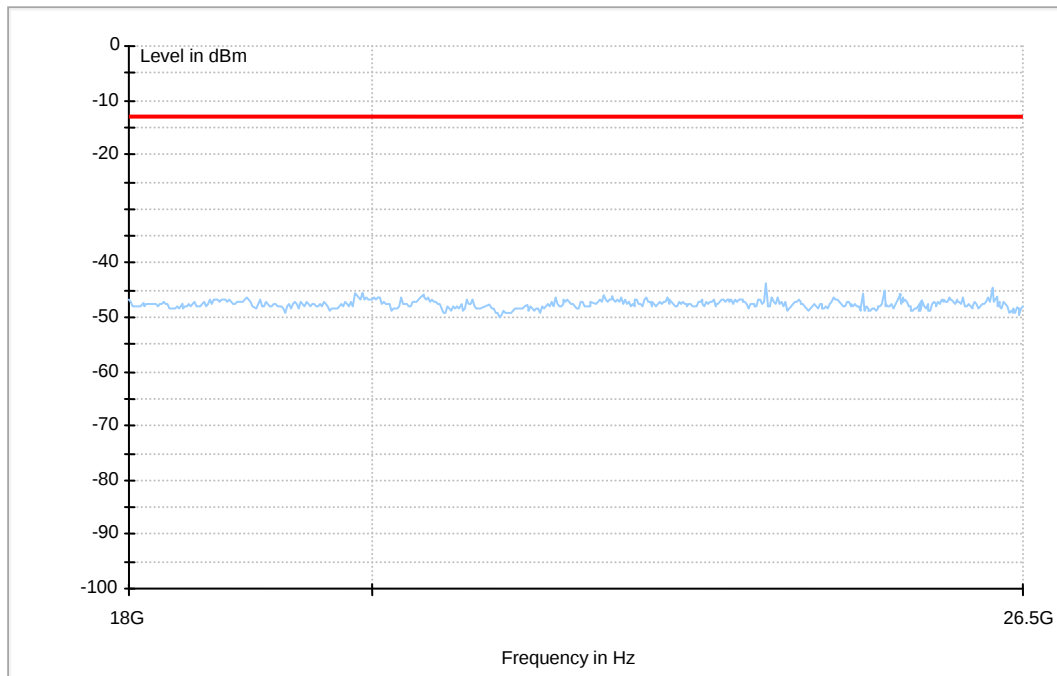


Traffic Mode (3GHz-18GHz)





Traffic Mode (18GHz-26.5GHz)





Appendix F

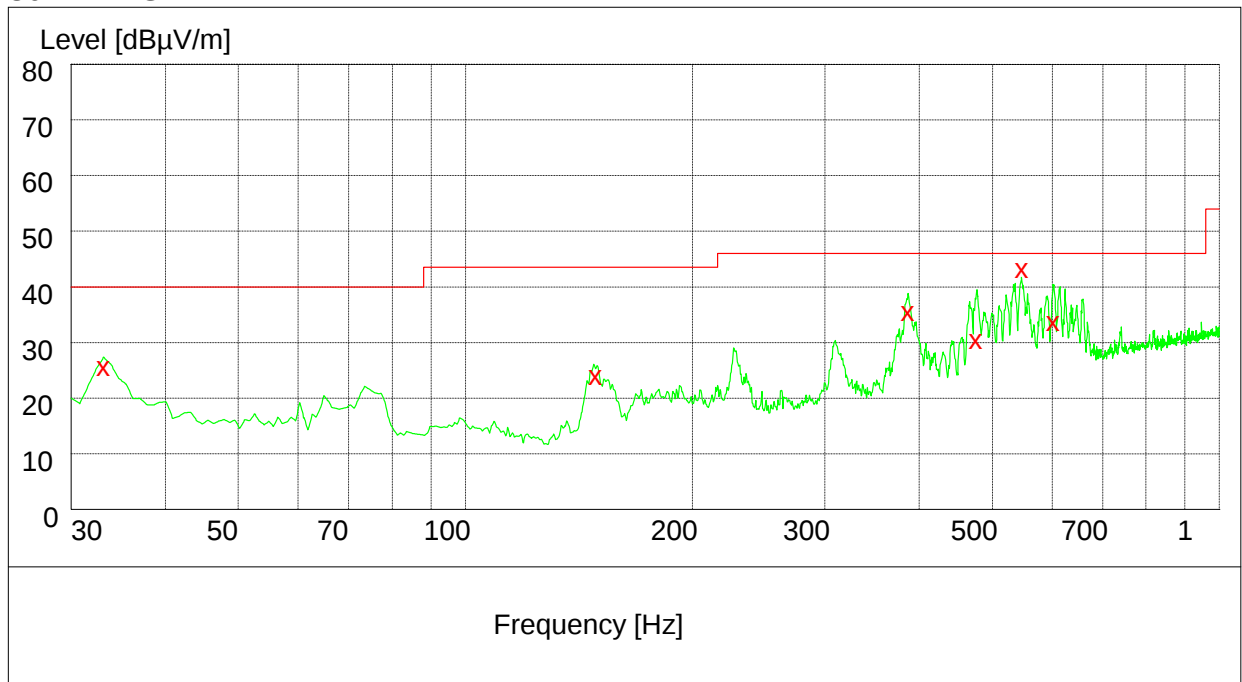
Receiver Spurious Emissions

According to RSS-132



This test was carried out in all the test modes, Here only the worst test result was shown.

30MHz-1GHz

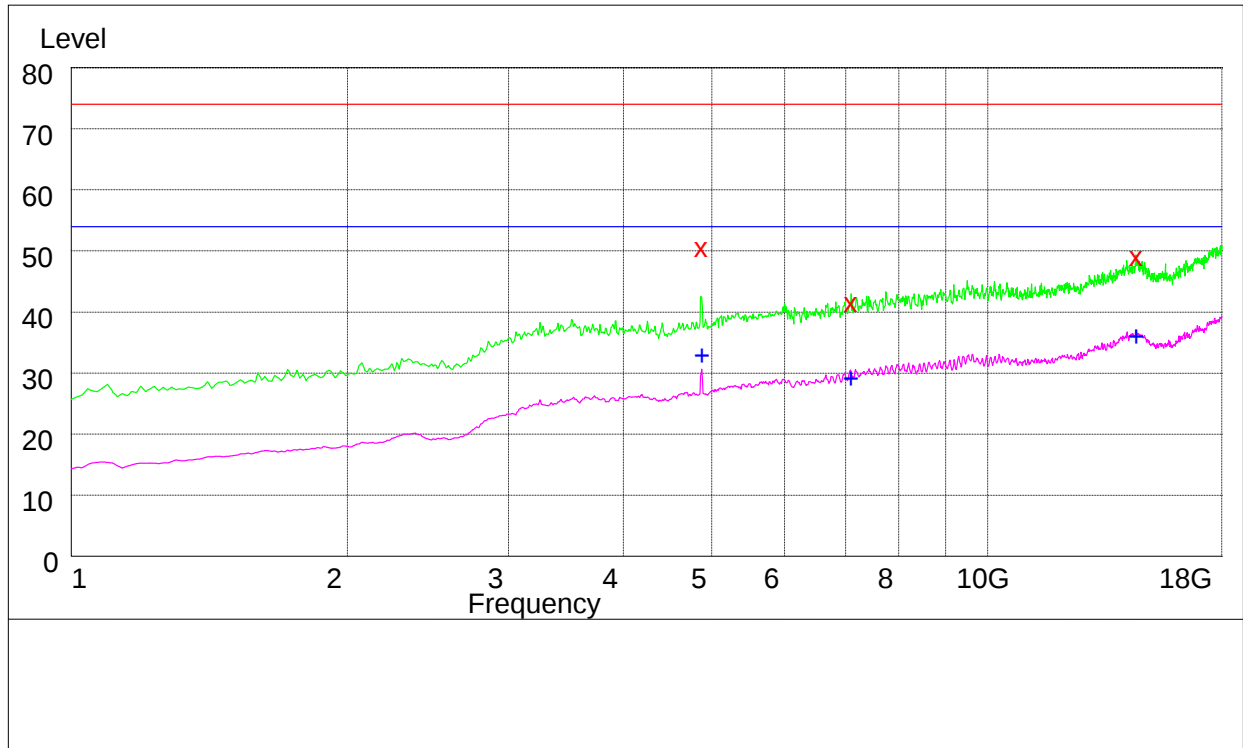


MEASUREMENT RESULT: QP Detector

Frequency MHz	Level dBμV/m	Transd dB	Limit dBμV/ m	Margin dB	Height cm	Azimuth deg	Polarisation
33.600000	26.50	11.8	40.0	13.5	100.0	56.00	HORIZONTAL
158.300000	23.10	9.7	43.5	20.4	100.0	120.00	HORIZONTAL
386.760000	36.10	17.8	46.0	9.9	100.0	324.00	HORIZONTAL
476.700000	30.80	19.5	46.0	15.2	100.0	282.00	HORIZONTAL
547.620000	42.70	21.3	46.0	3.3	100.0	125.00	HORIZONTAL
602.280000	34.30	22.5	46.0	11.7	100.0	226.00	HORIZONTAL



1GHz-18GHz



MEASUREMENT RESULT: PK Detector

Frequency MHz	Level dBμV/m	Transd dB	Limit dBμV/m	Margin dB	Height cm	Azimuth deg	Polarisation
4876.500000	50.50	-3.5	74.0	23.5	161.0	206.00	HORIZONTAL
7094.000000	41.90	1.3	74.0	32.1	165.0	316.00	HORIZONTAL
14524.00000	49.40	14.9	74.0	24.6	100.0	291.00	VERTICAL

MEASUREMENT RESULT: AV Detector

Frequency MHz	Level dBμV/m	Transd dB	Limit dBμV/m	Margin dB	Height cm	Azimuth deg	Polarisation
4872.500000	33.20	-3.3	54.0	20.8	100.0	33.00	VERTICAL
7086.000000	29.40	1.5	54.0	24.6	102.0	48.00	HORIZONTAL
14519.00000	36.40	14.9	54.0	17.6	100.0	186.00	VERTICAL



Appendix G

Photos of Test Setup

Field Strength of Spurious Emissions



Radiated Spurious Emission (below 3GHz)



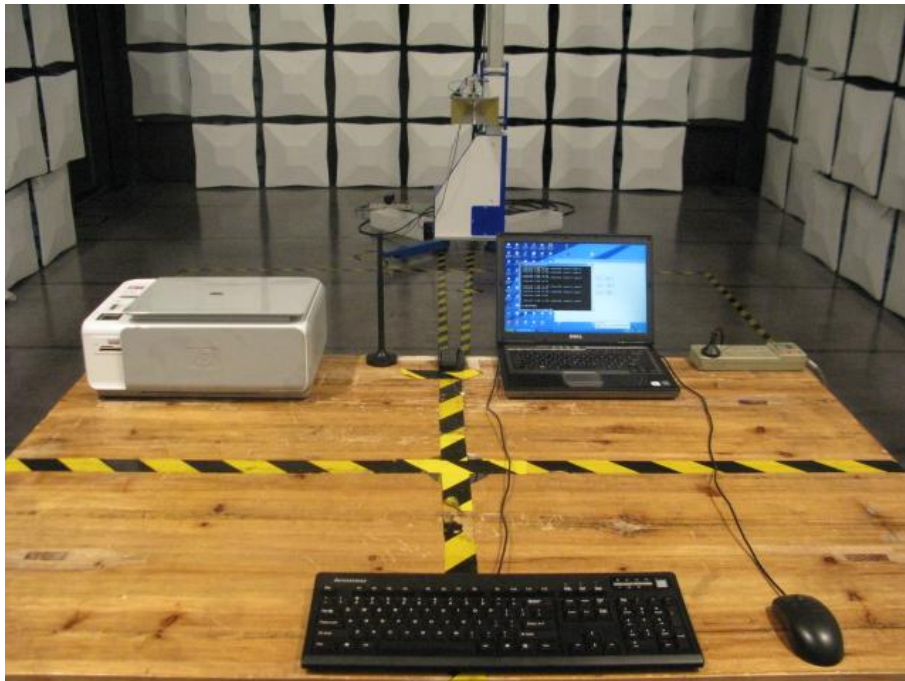
Radiated Spurious Emission (3GHz to18GHz)



Receiver Spurious Emissions



Radiated Disturbance Emissions (30MHz-1GHz)



Radiated Disturbance Emissions (above 1GHz)