

Annex 1: Measurement diagrams to
TEST REPORT
No.: 18-1-0029001T04a

According to:
47 CFR Part 15.519

for

ELOKON GmbH

ELOshield antenna module

FCC ID: 2ASP7-ANTM-V01



Laboratory Accreditation
  Deutsche Akkreditierungsstelle D-PL-12047-01-01 D-PL-12047-01-03 D-PL-12047-01-04
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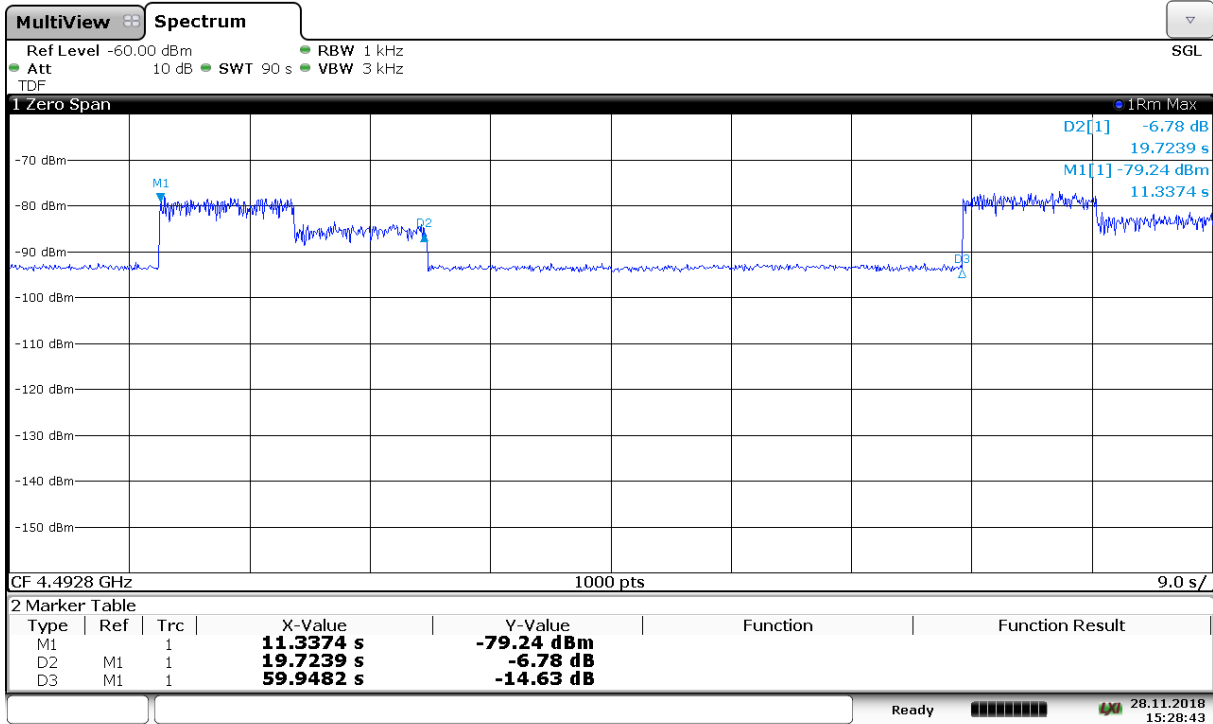
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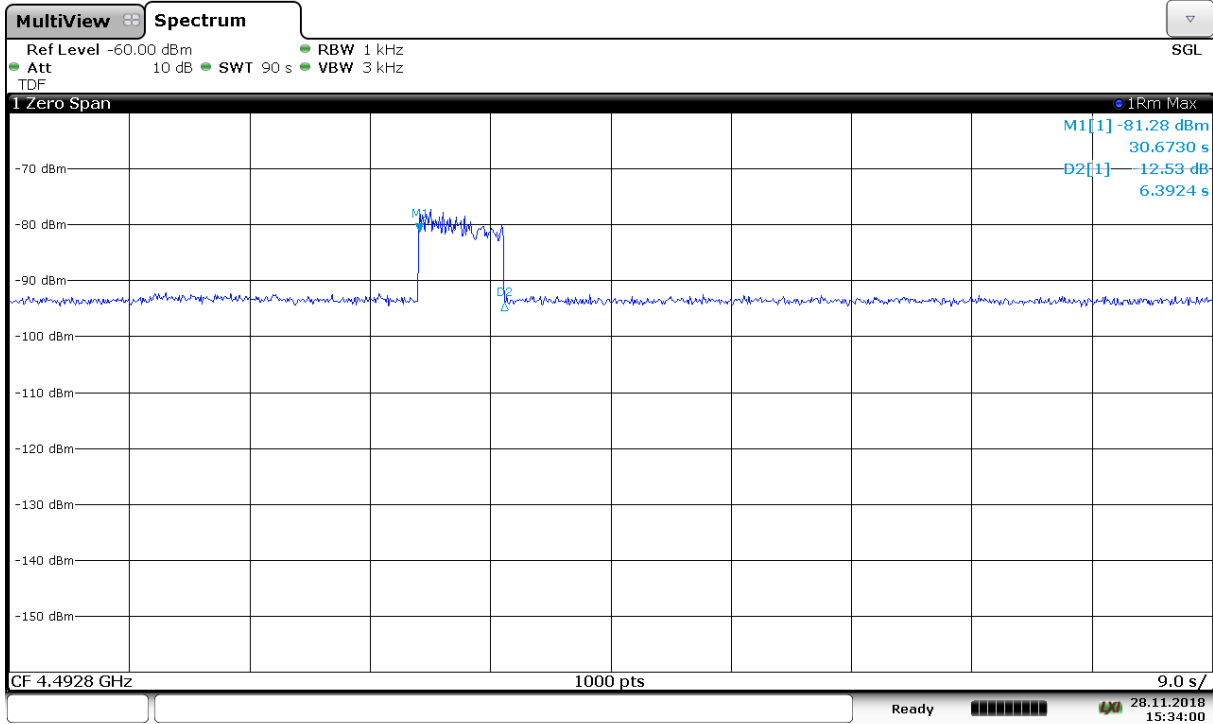
1. Transmission time measurement

1.1. EUT A and AE 4 are ON.



15:28:43 28.11.2018

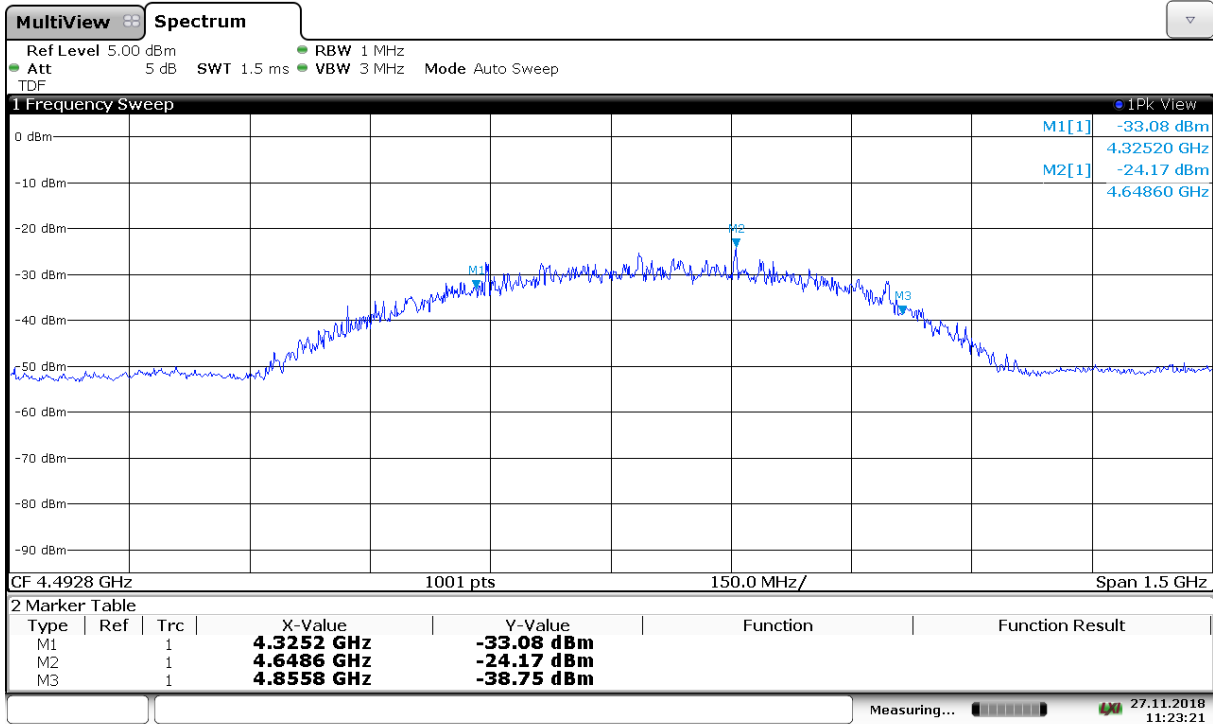
1.2. 1.2. EUT A is ON, AE 4 is deactivated app. at time M1



15:34:01 28.11.2018

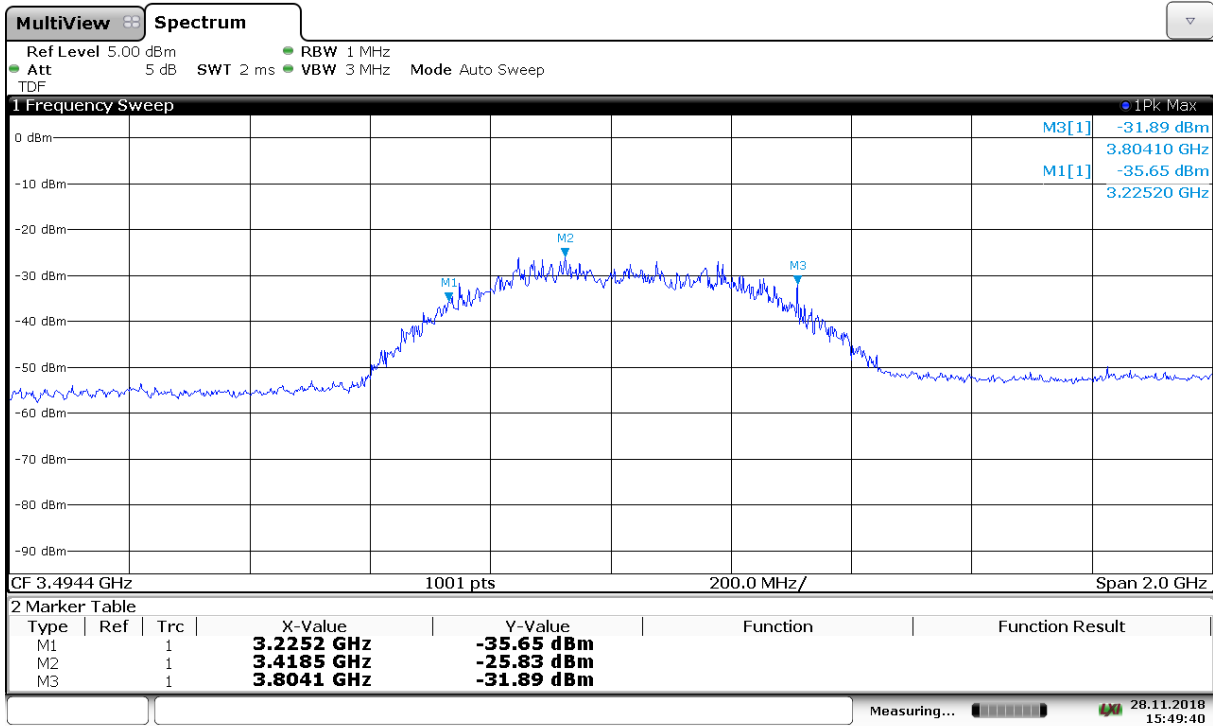
2. 10 dB bandwidth measurement

2.1. Op. Mode 1



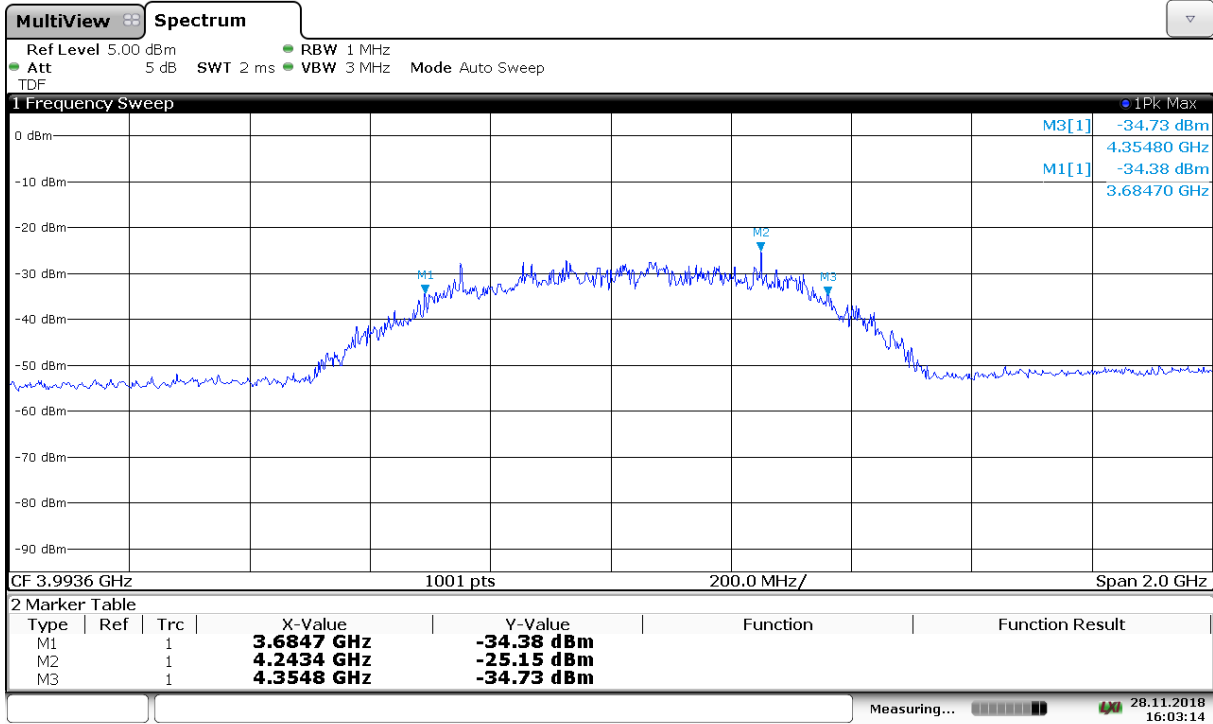
11:23:22 27.11.2018

2.2. Op. Mode 2



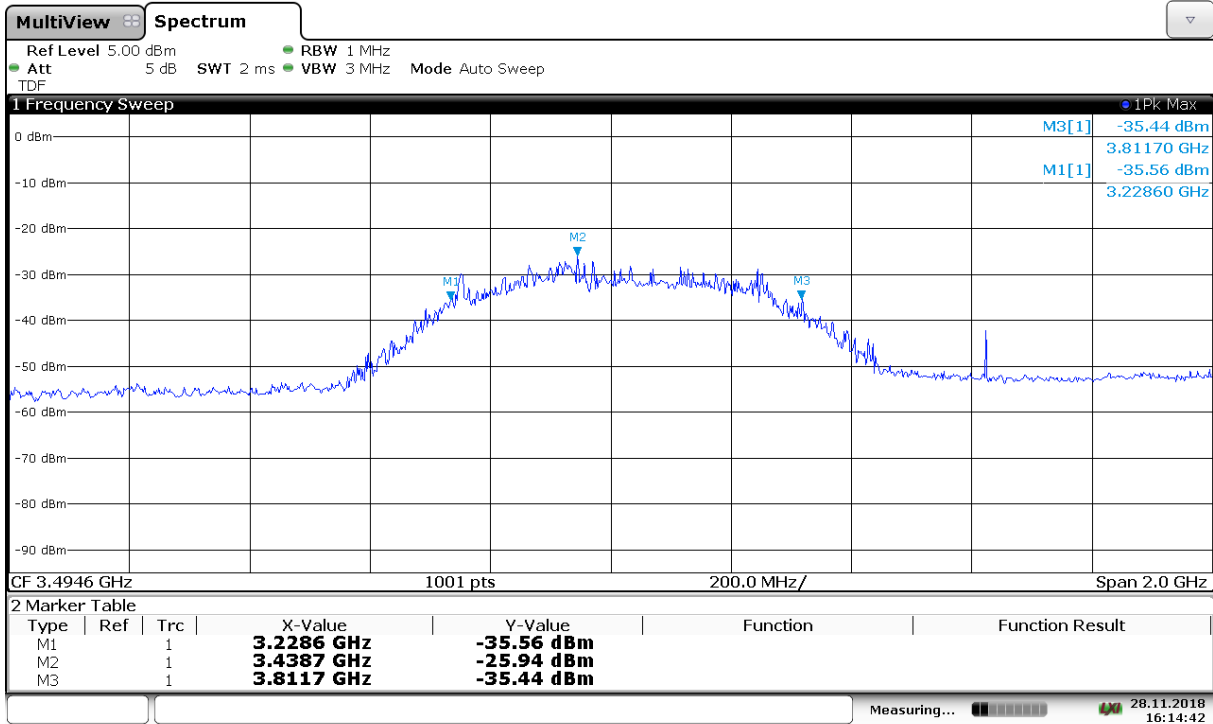
15:49:41 28.11.2018

2.3. Op. mode 3



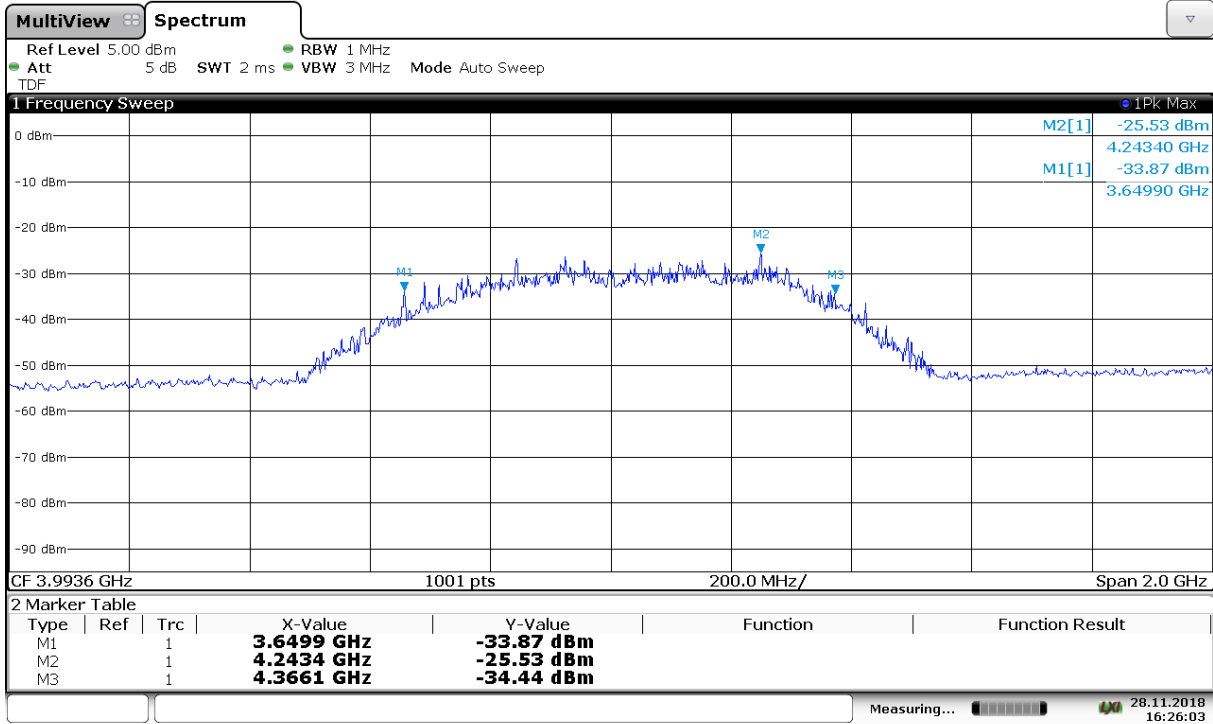
16:03:15 28.11.2018

2.4. Op. Mode 4



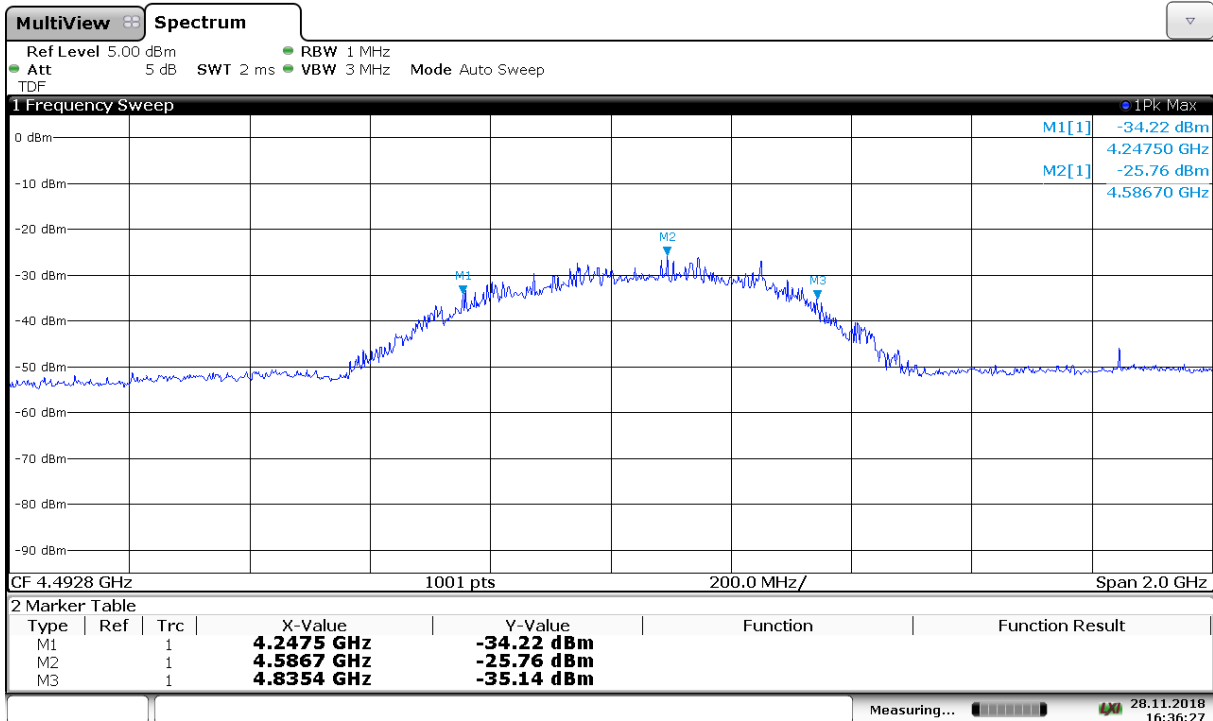
16:14:43 28.11.2018

2.5. Op. Mode 5



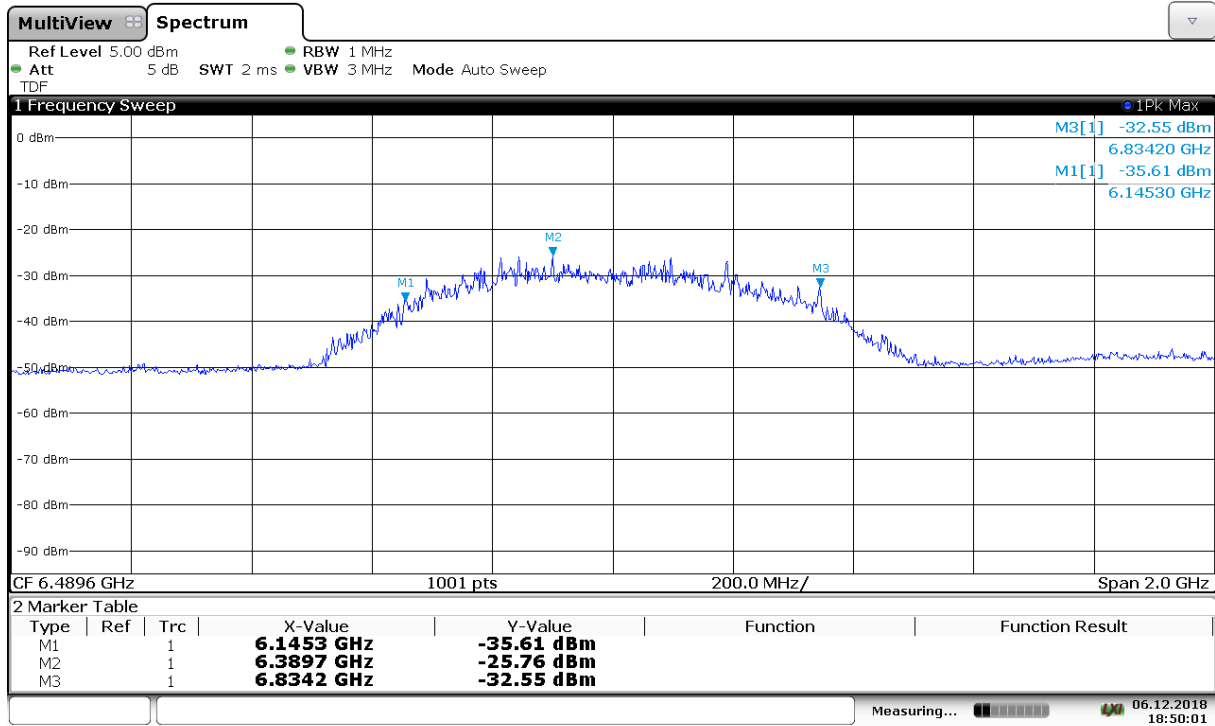
16:26:03 28.11.2018

2.6. Op. Mode 6



16:36:27 28.11.2018

2.7. Op. Mode 7

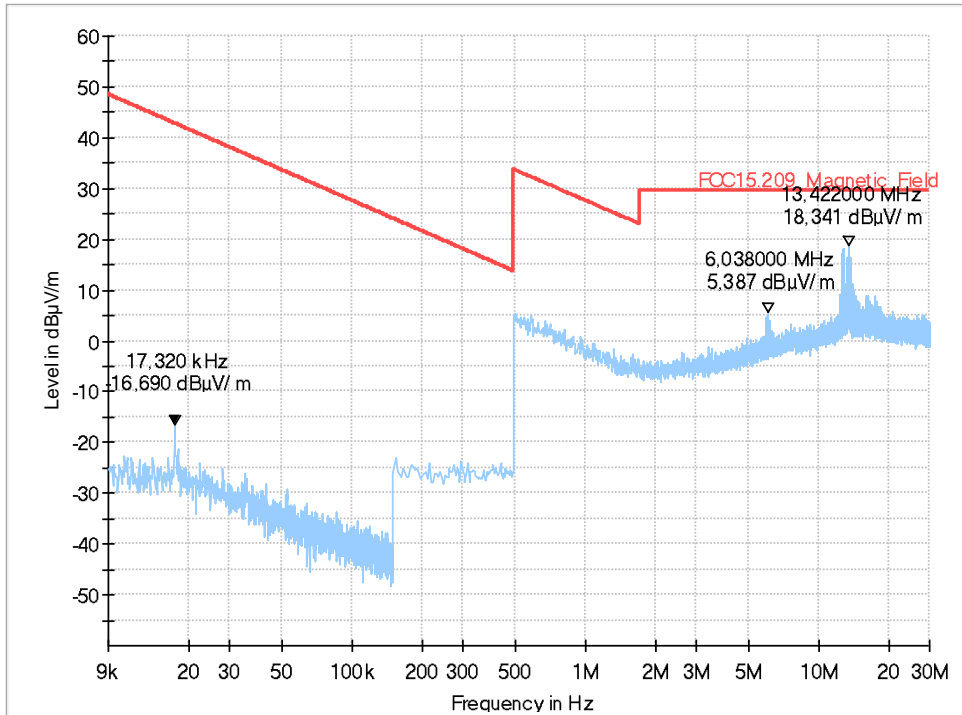


18:50:02 06.12.2018

3. General Limit - Radiated field strength emissions below 30 MHz

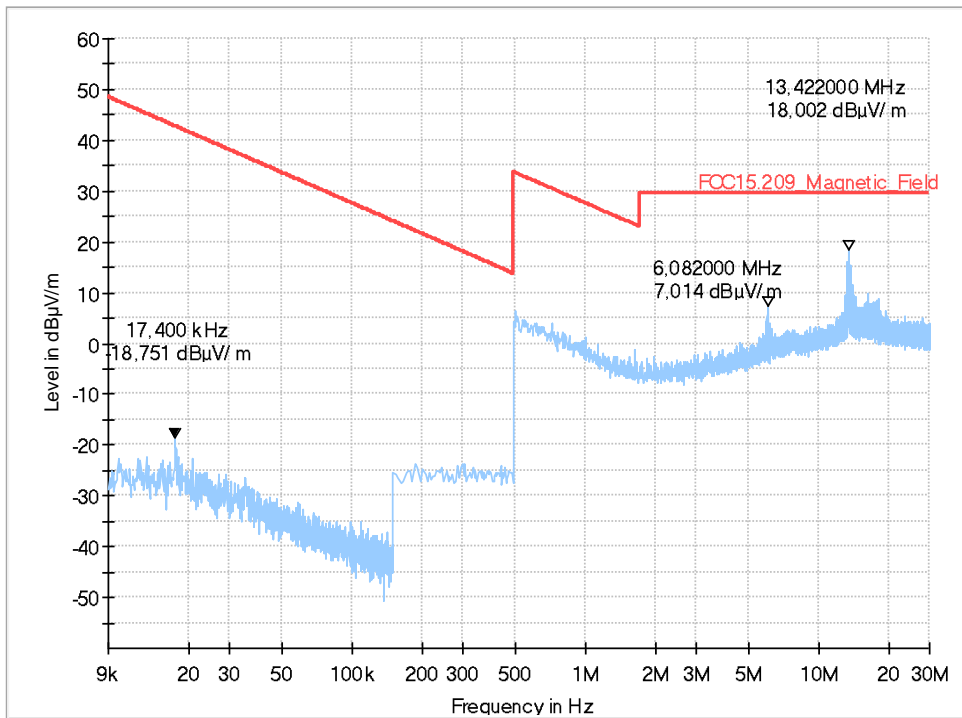
3.1. Op. Mode 1 and 7, laying

Full Spectrum



3.2. Op. Mode 1 and 7, standing

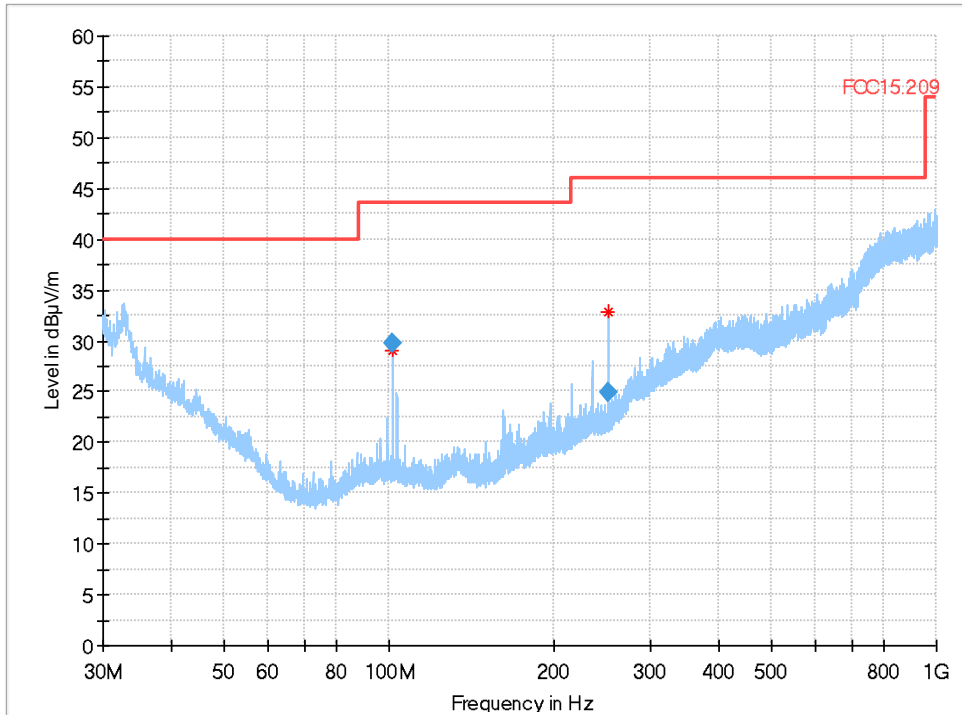
Full Spectrum



4. General Limit - Radiated field strength emissions, 30 MHz - 1 GHz

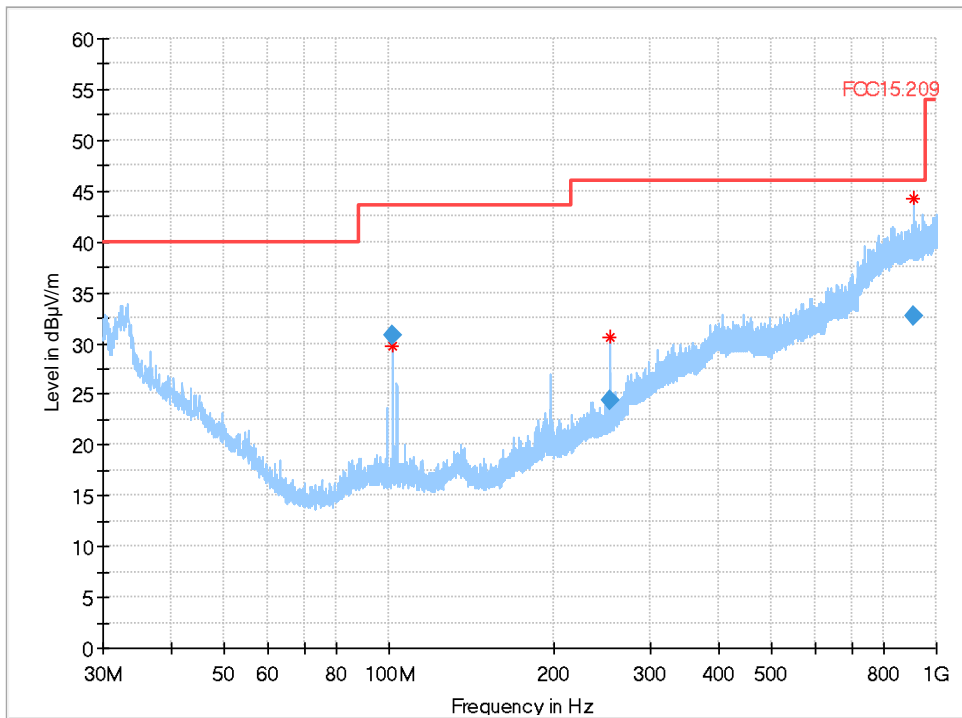
4.1. Op. Mode 1 and 7, laying

Full Spectrum



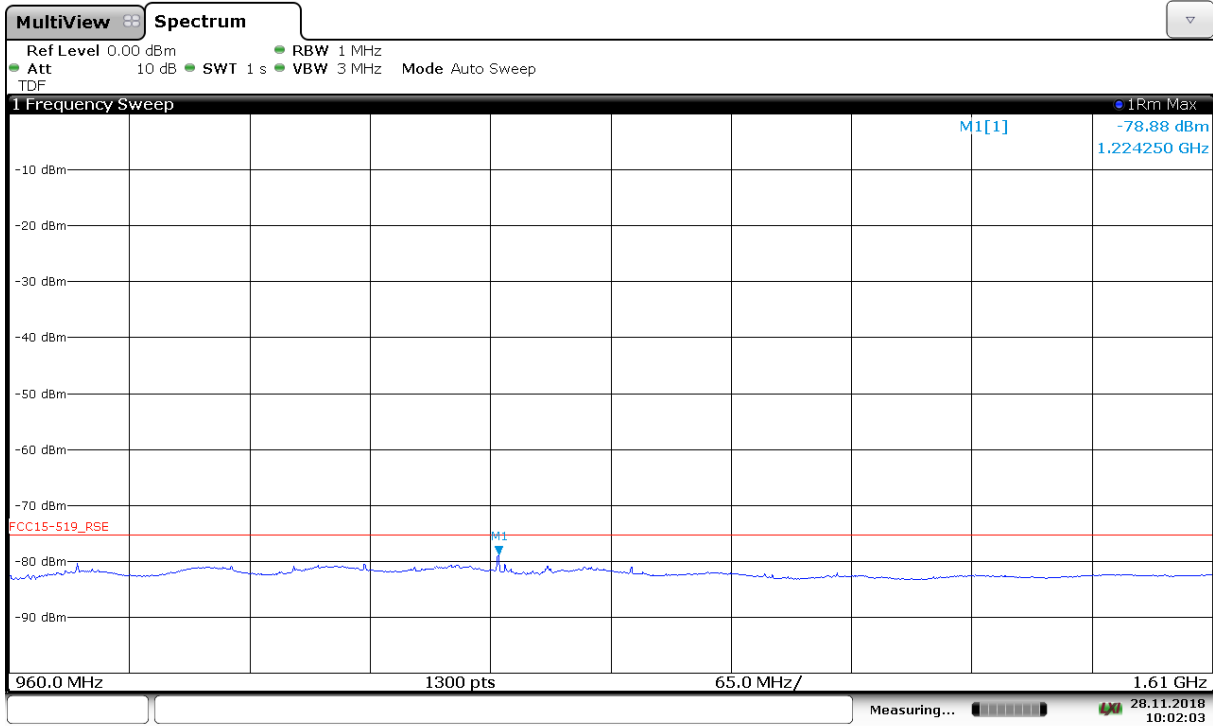
4.2. Op. Mode 1 and 7, standing

Full Spectrum



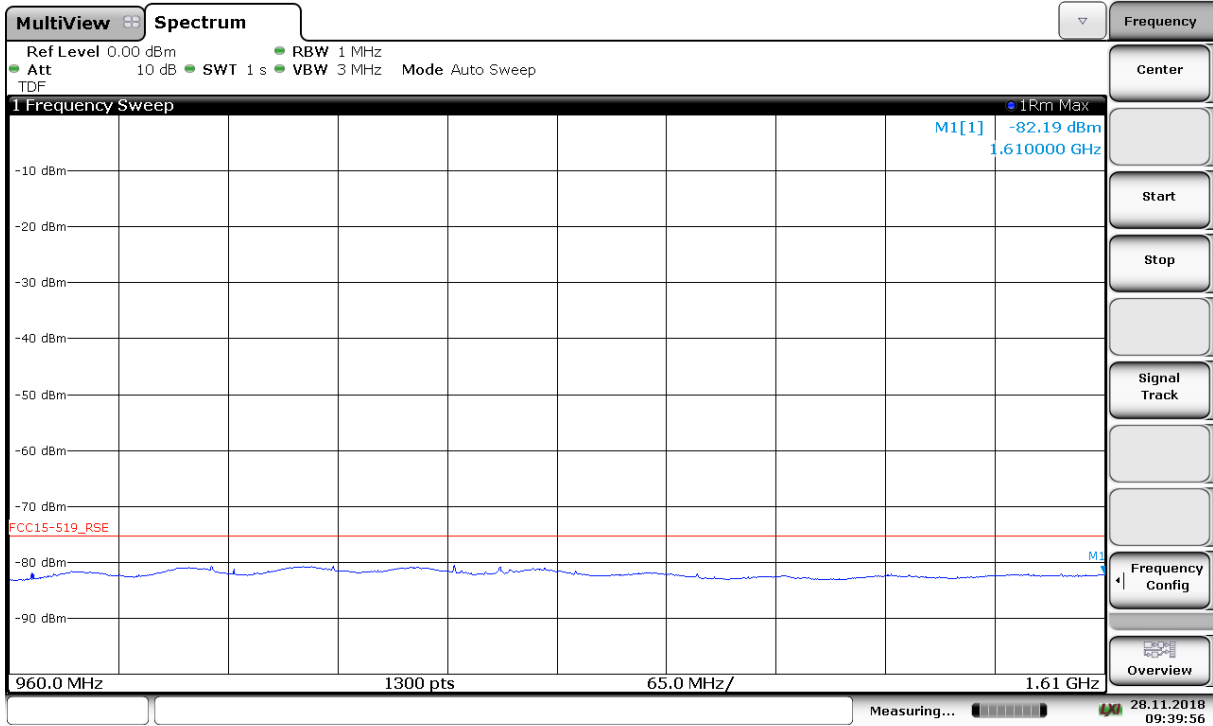
5. General Limit – Radiated field strength emissions, above 960 MHz

5.1. Frequency range 960 MHz – 1610 MHz, op. mode 1 and 7, ANT HOR



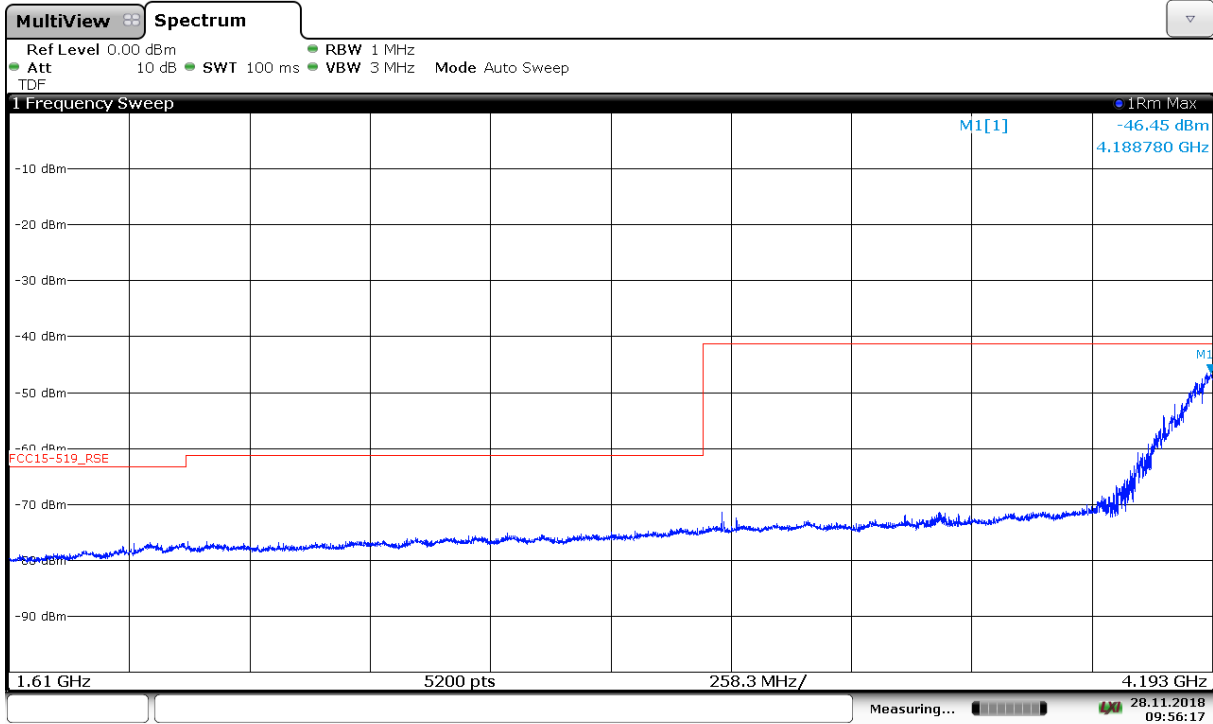
10:02:03 28.11.2018

5.2. Frequency range 960 MHz – 1610 MHz, op. mode 1 and 7, ANT VER



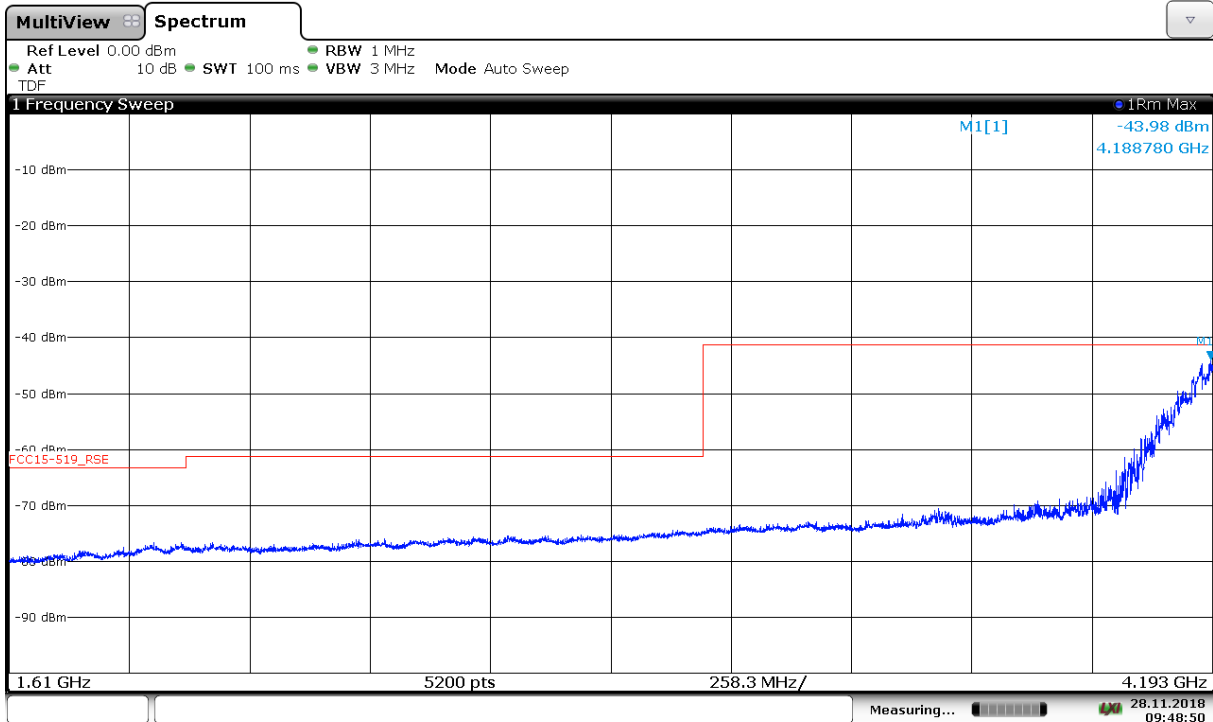
09:39:56 28.11.2018

5.3. Frequency range 1610 MHz – 4193 MHz, op. mode 1 and 7, ANT HOR



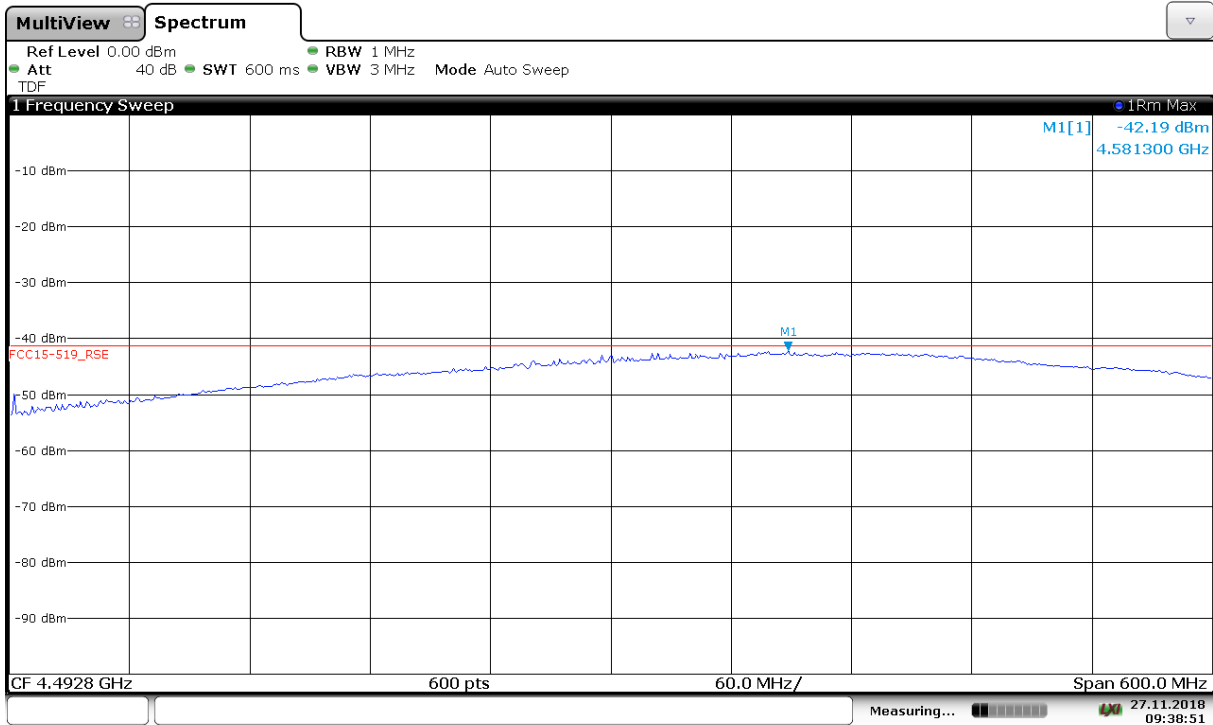
09:56:18 28.11.2018

5.4. Frequency range 1610 MHz – 4193 MHz, op. mode 1 and 7, ANT VER



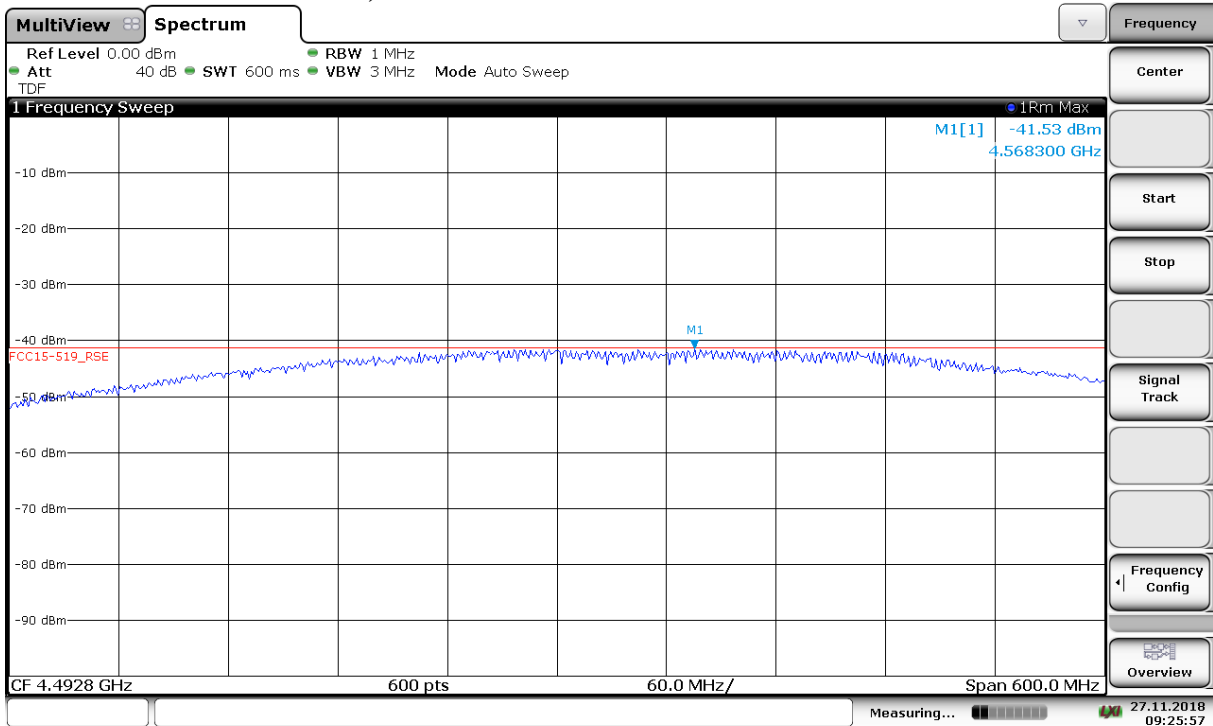
09:48:50 28.11.2018

5.5. UWB cen. frequency with span 600 MHz, 600 pts, SWT 600ms, op. mode 1 and 7, 4192.8 MHz – 4792.8 MHz, ANT HOR



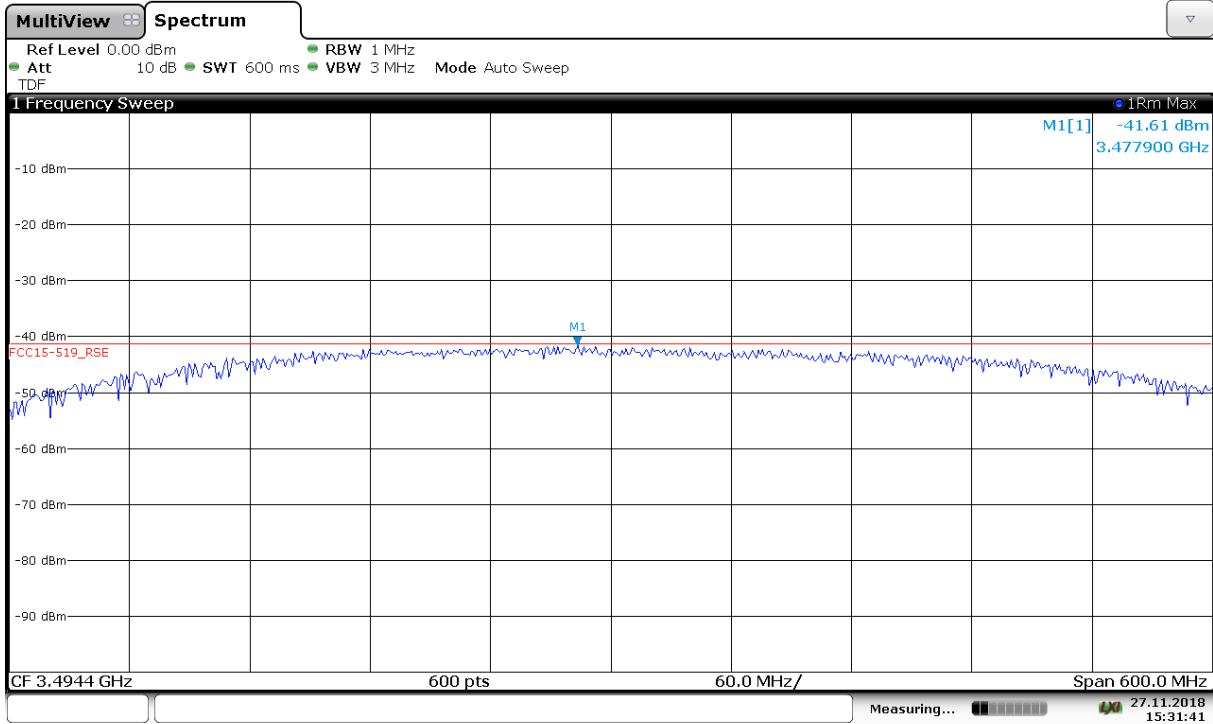
09:38:51 27.11.2018

5.6. UWB cen. frequency with span 600 MHz, 600 pts, SWT 600ms, op. mode 1 and 7, 4192.8 MHz – 4792.8 MHz, ANT VER



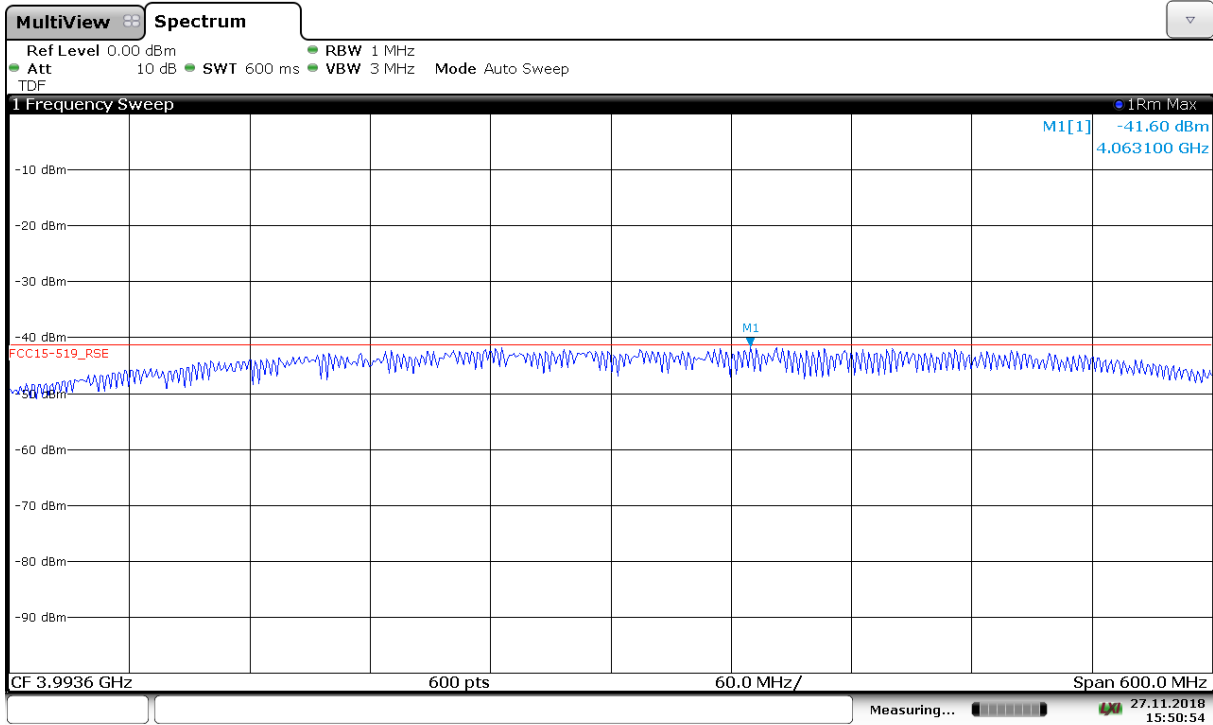
09:25:57 27.11.2018

5.7. UWB cen. frequency with span 600 MHz, 600 pts, SWT 600ms, op. mode 2 + 7



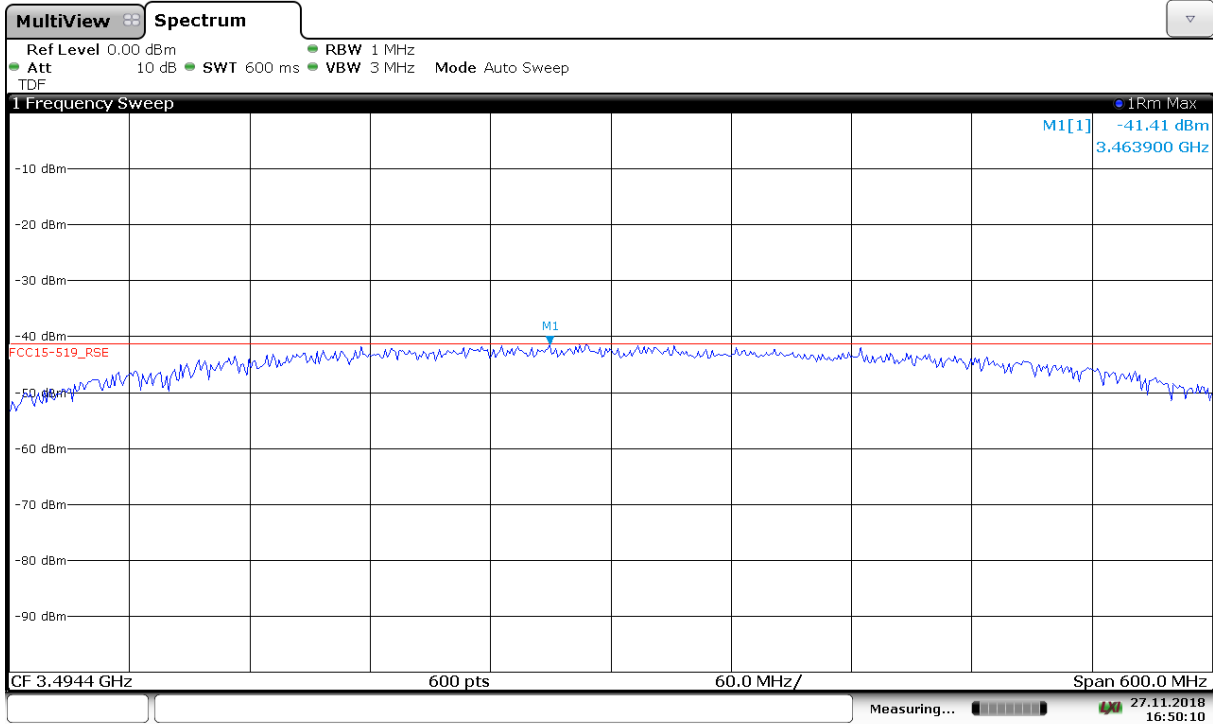
15:31:42 27.11.2018

5.8. UWB cen. frequency with span 600 MHz, 600 pts, SWT 600ms, op. mode 3 + 7



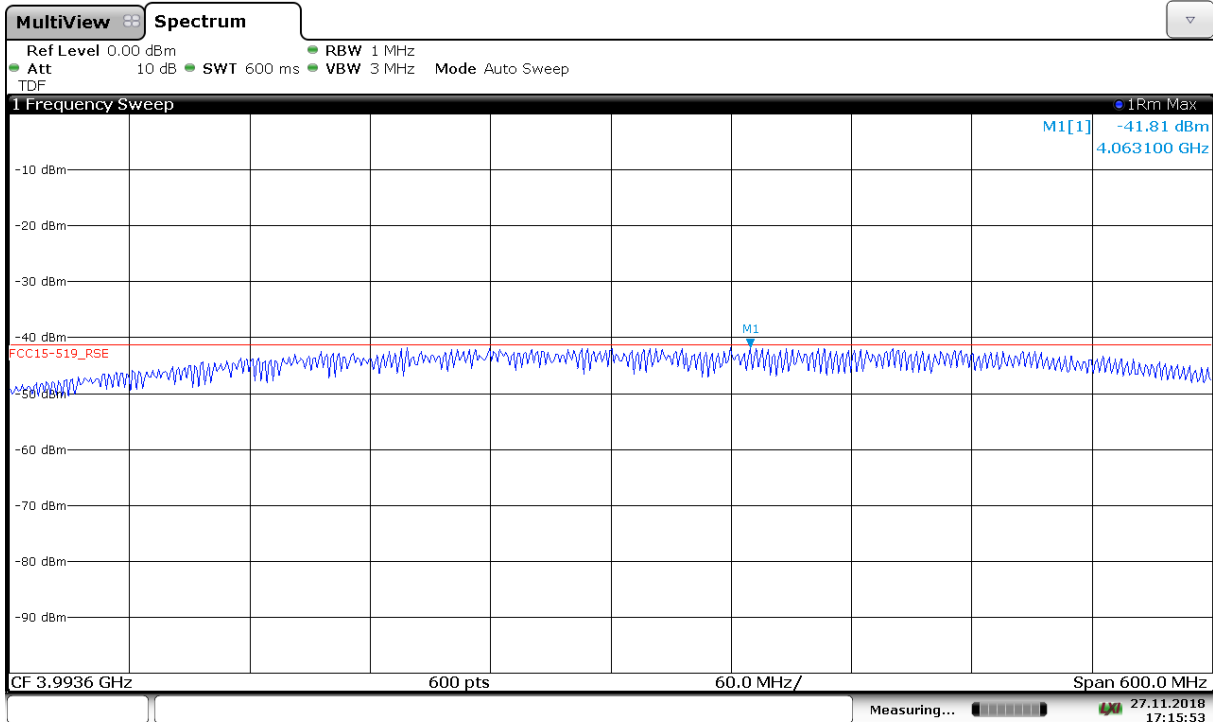
15:50:55 27.11.2018

5.9. UWB cen. frequency with span 600 MHz, 600 pts, SWT 600ms, op. mode 4 + 7



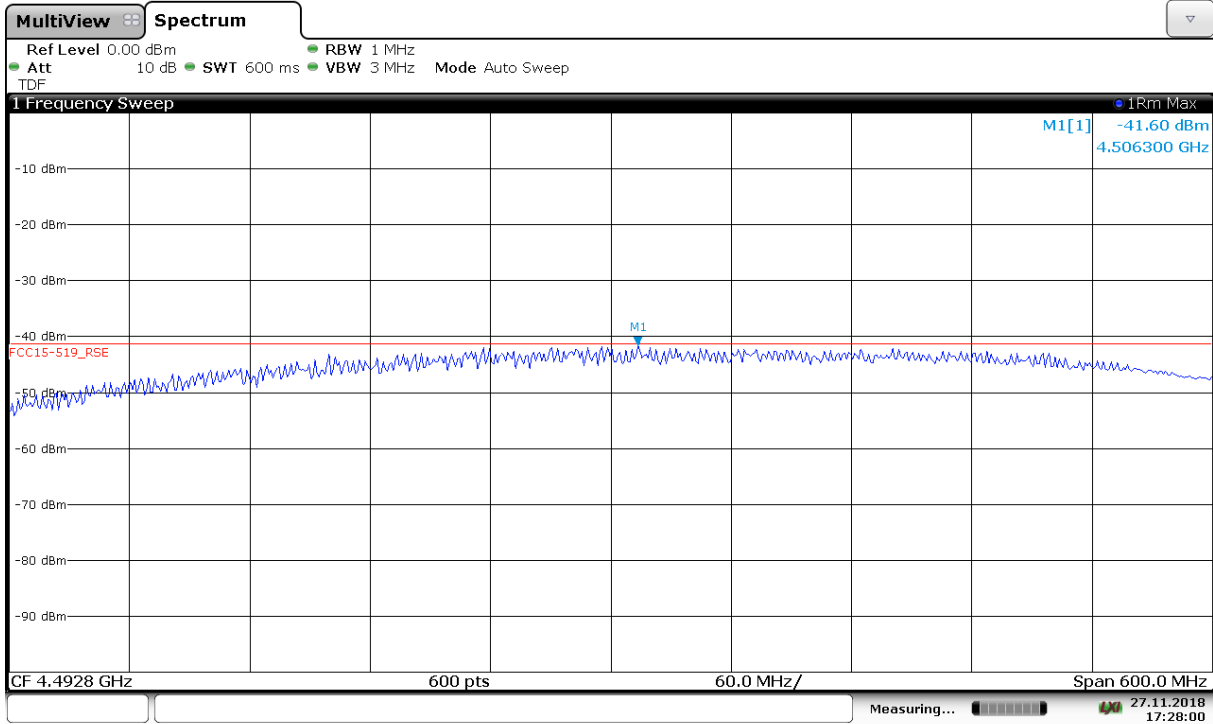
16:50:10 27.11.2018

5.10. UWB cen. frequency with span 600 MHz, 600 pts, SWT 600ms, op. mode 5 + 7



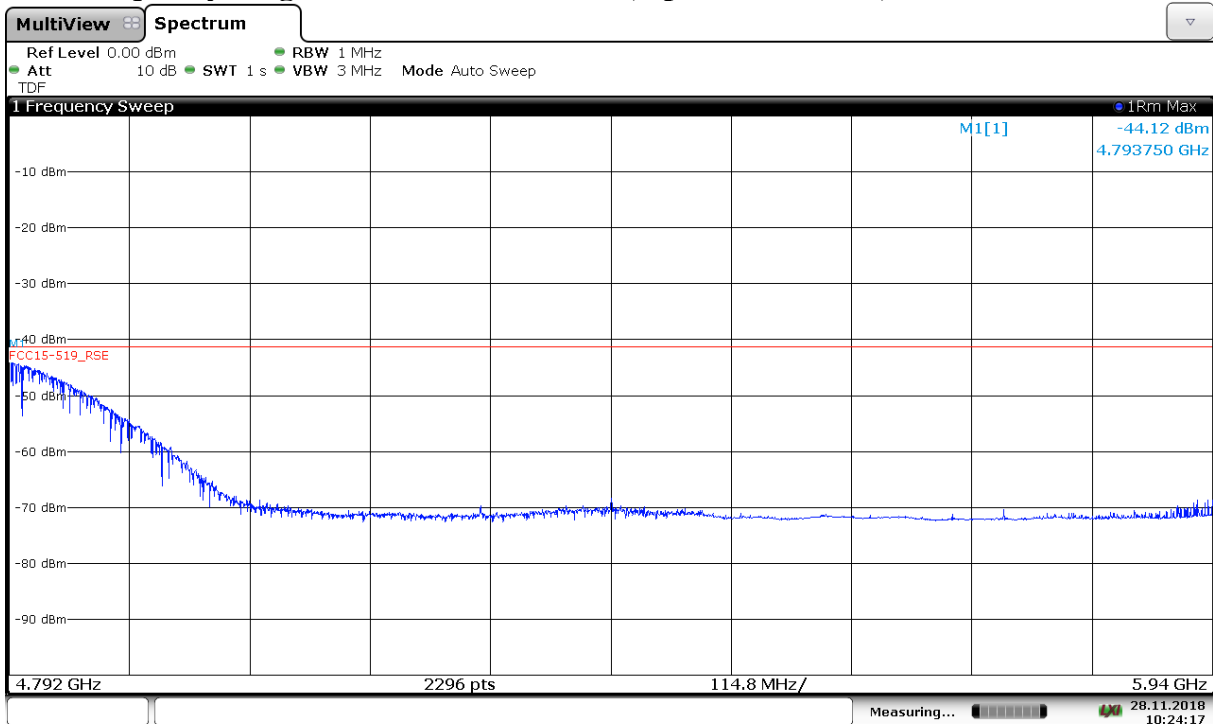
17:15:53 27.11.2018

5.11. UWB cen. frequency with span 600 MHz, 600 pts, SWT 600ms, op. mode 6 + 7



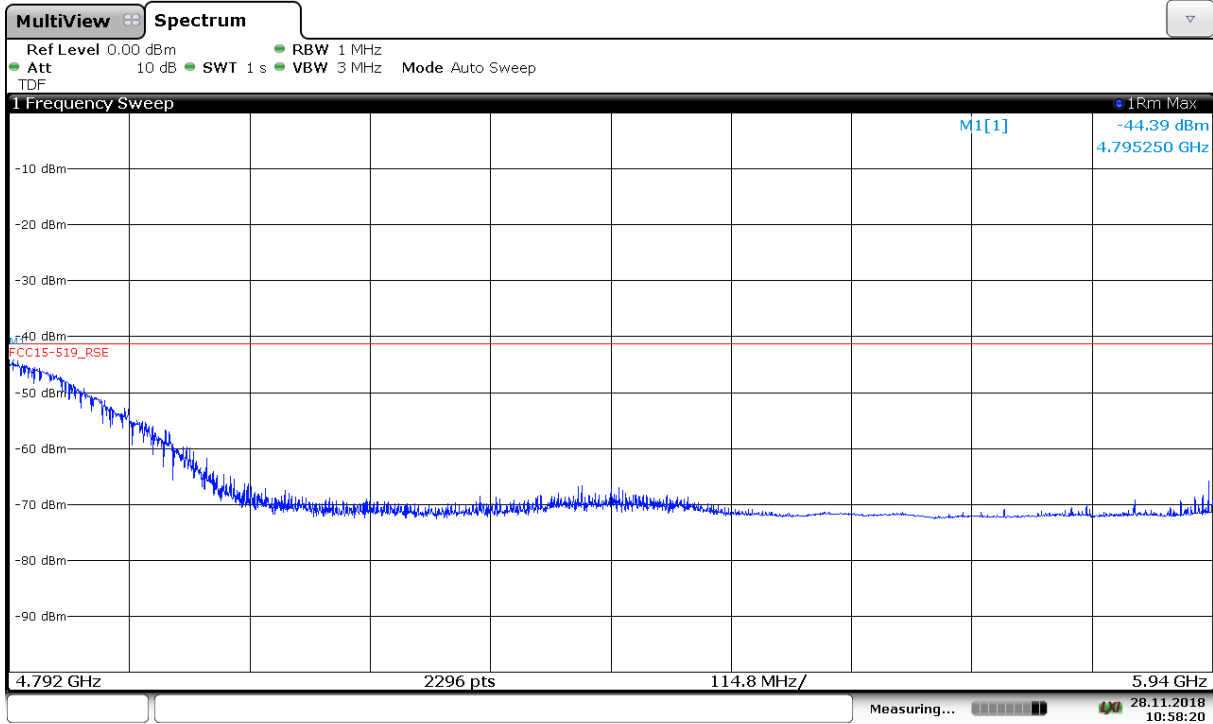
17:28:00 27.11.2018

5.12. Frequency range 4792 MHz – 5940 MHz, op. mode 1 and 7, ANT HOR



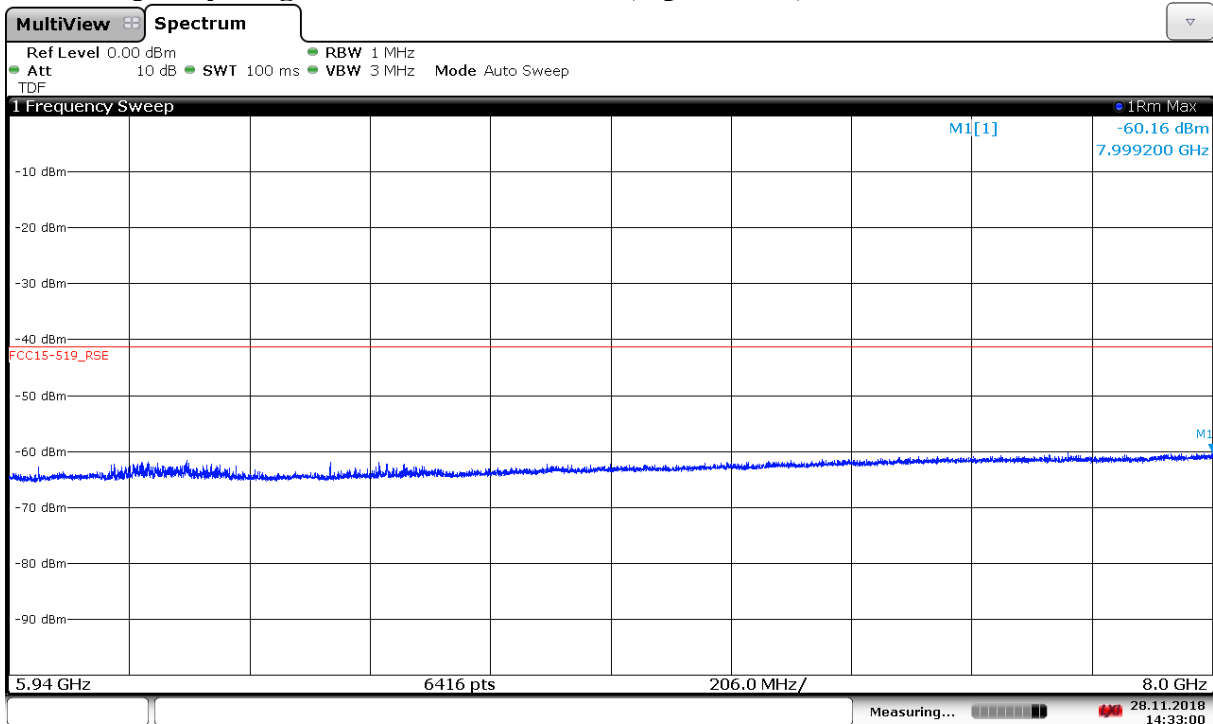
10:24:17 28.11.2018

5.13. Frequency range 4792 MHz – 5940 MHz, op. mode 1 and 7, ANT VER



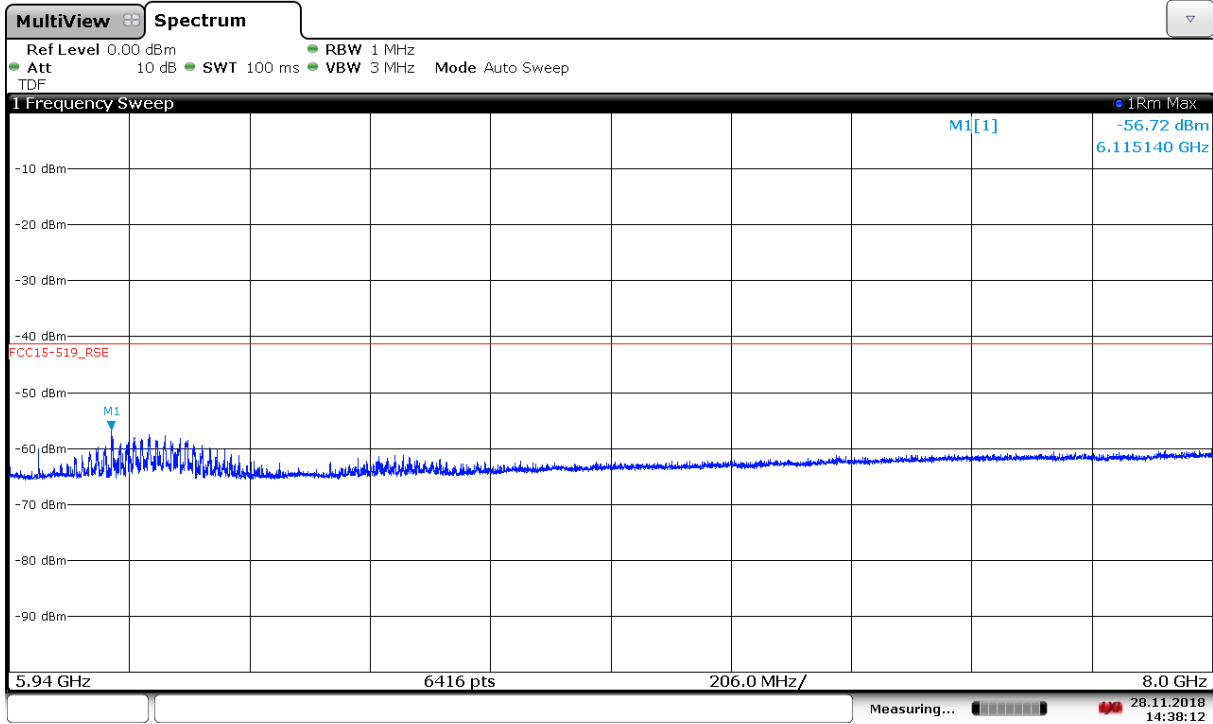
10:58:20 28.11.2018

5.14. Frequency range 5940 MHz – 8000 MHz, op. mode 1, ANT HOR



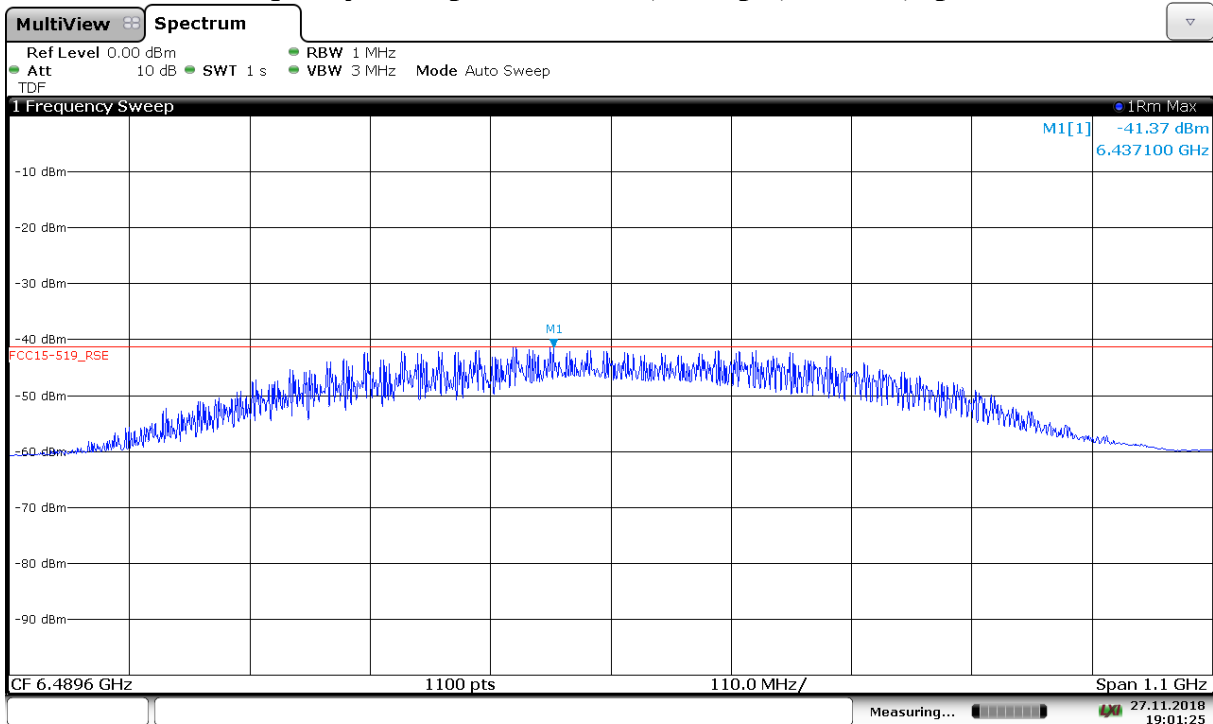
14:33:00 28.11.2018

5.15. Frequency range 5940 MHz – 8000 MHz, op. mode 1, ANT VER



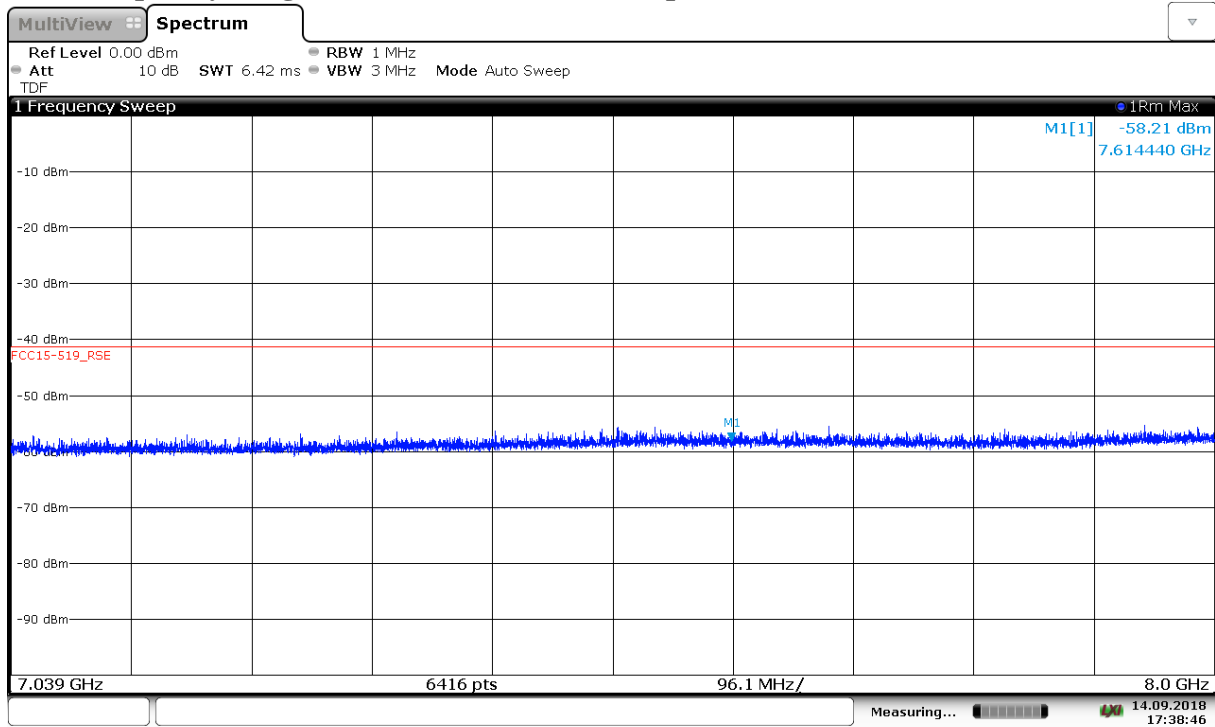
14:38:12 28.11.2018

5.16. UWB cen. frequency with span 1100 MHz, 1100 pts, SWT 1s, op. mode 1 and 7



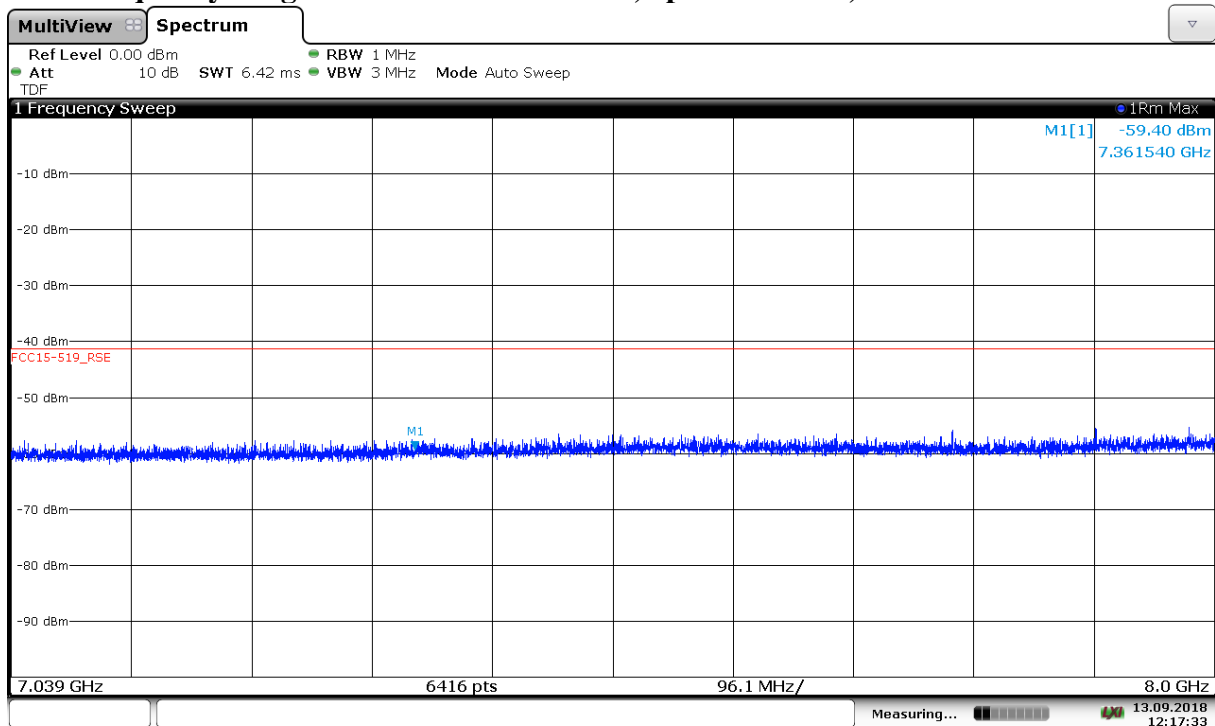
19:01:25 27.11.2018

5.17. Frequency range 7039 MHz – 8000 MHz, op. mode 1 + 7, ANT HOR



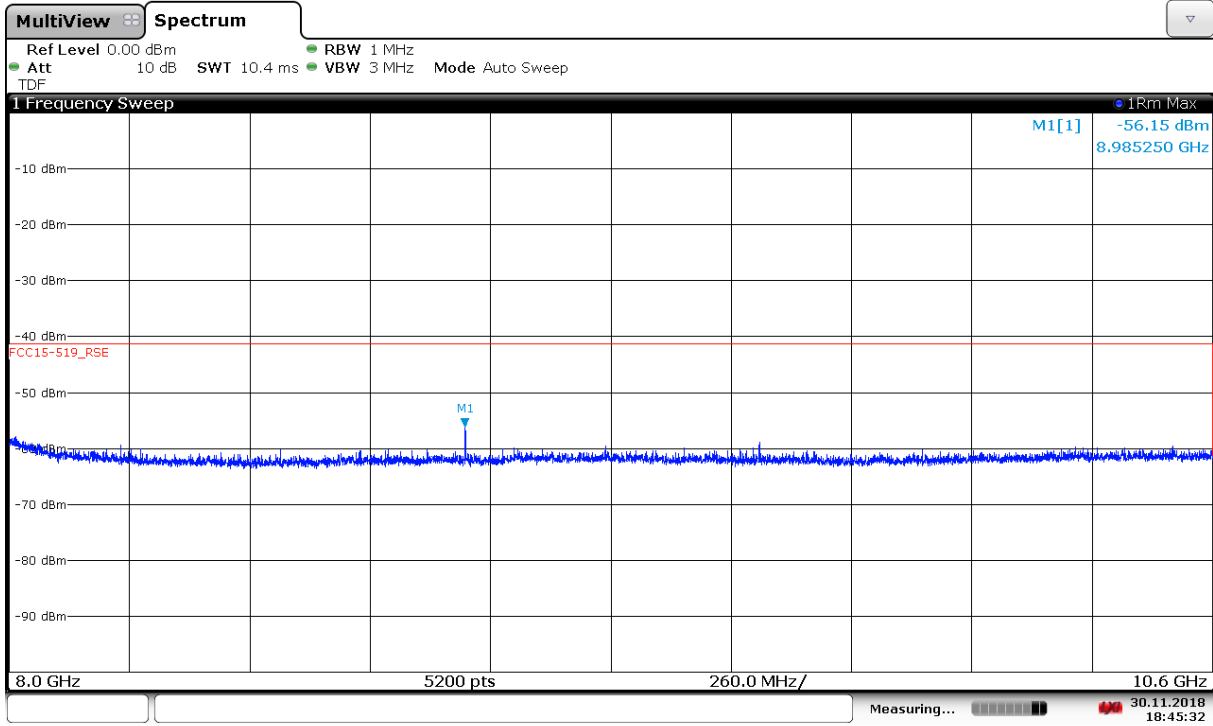
17:38:46 14.09.2018

5.18. Frequency range 7039 MHz – 8000 MHz, op. mode 1 + 7, ANT VER



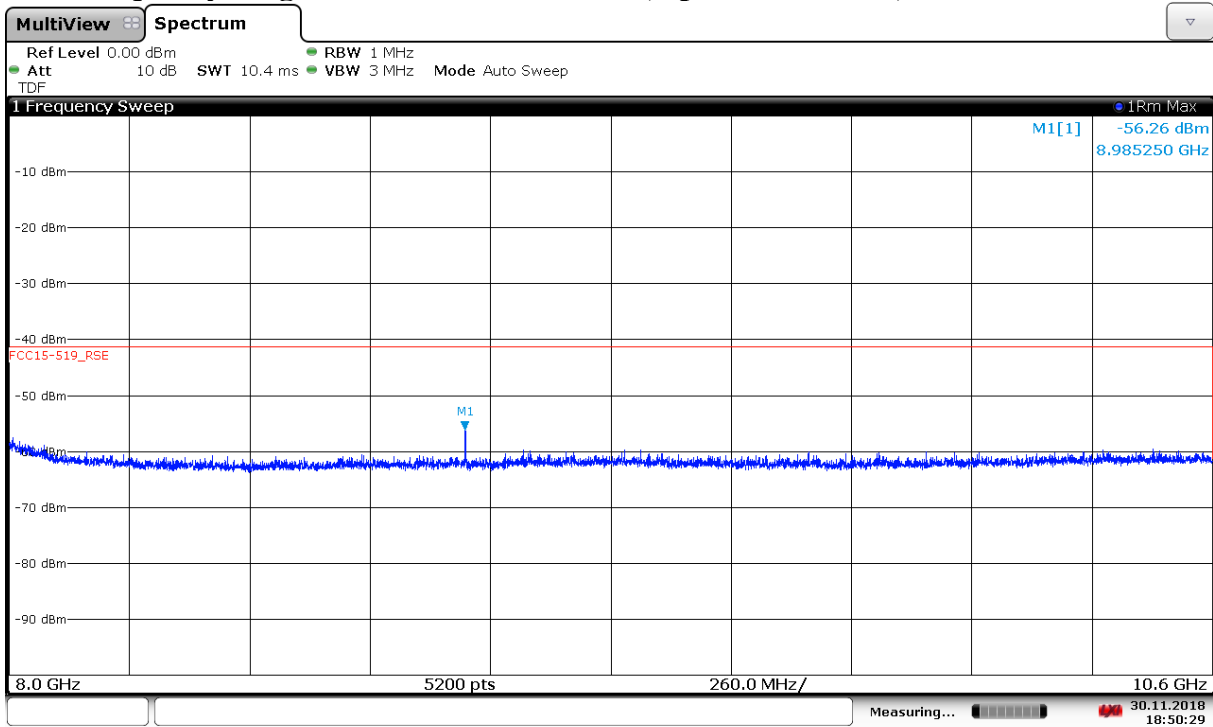
12:17:34 13.09.2018

5.19. Frequency range 8000 MHz – 10600 MHz, op. mode 1 and 7, ANT HOR



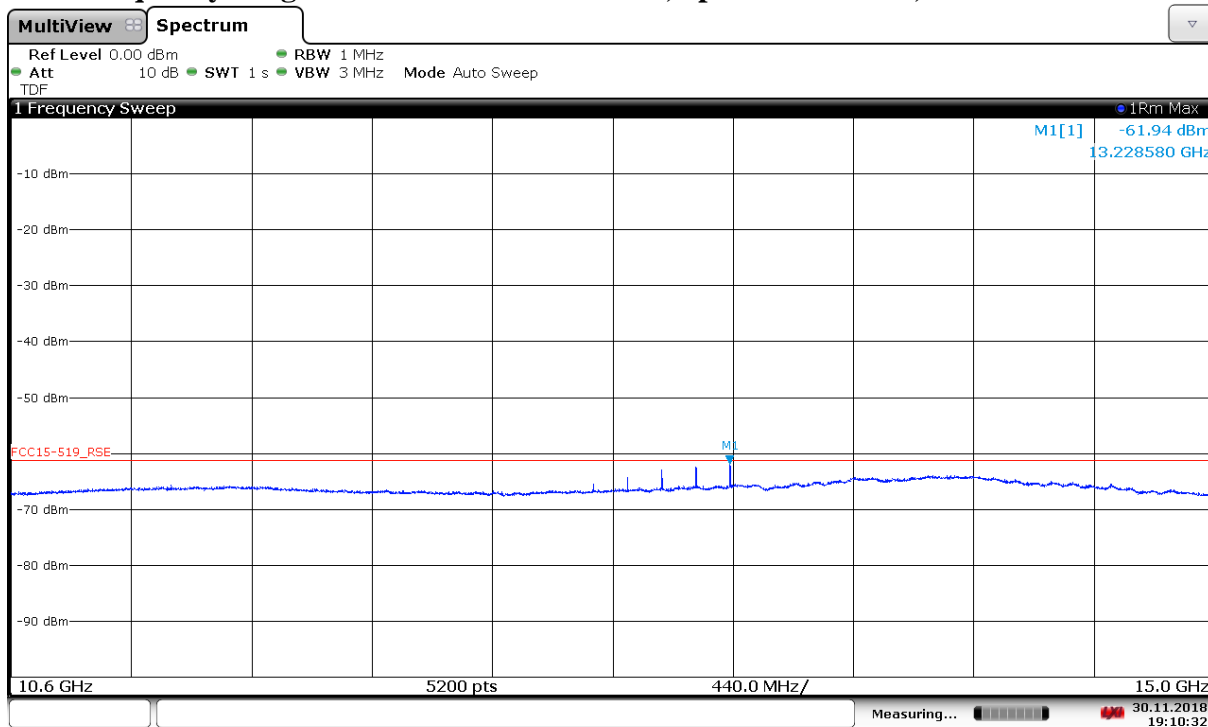
18:45:32 30.11.2018

5.20. Frequency range 8000 MHz – 10600 MHz, op. mode 1 and 7, ANT VER



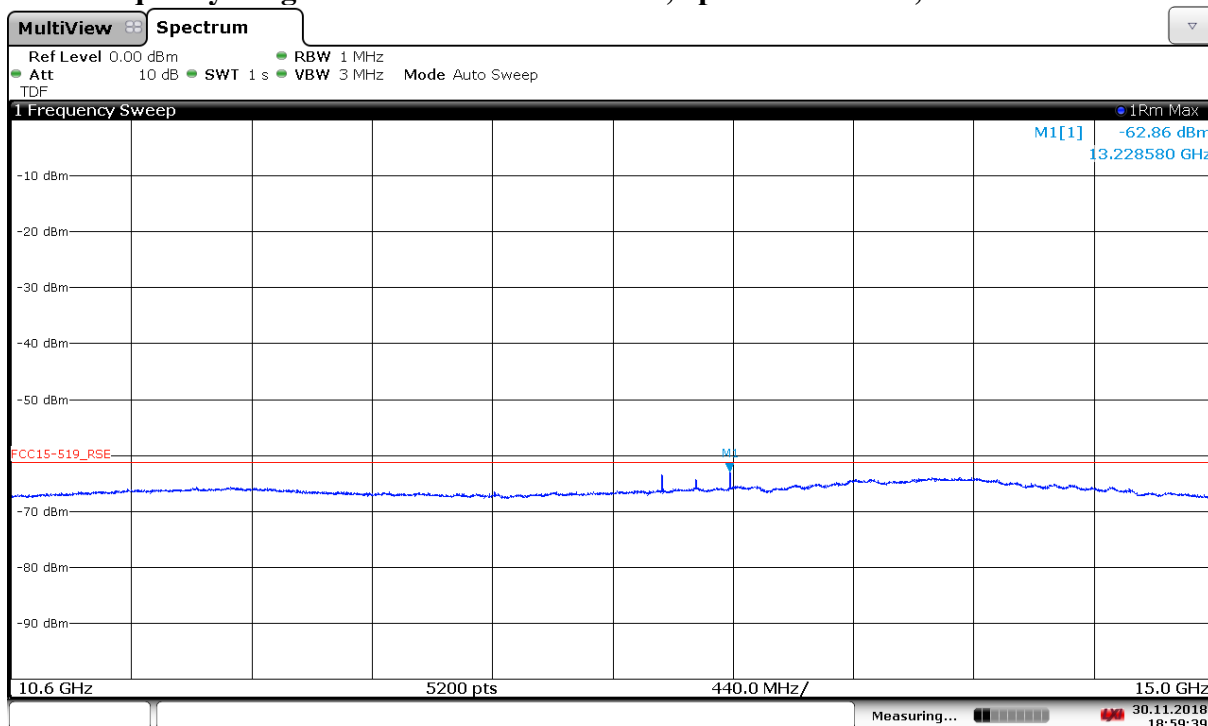
18:50:29 30.11.2018

5.21. Frequency range 10600 MHz – 15000 MHz, op. mode 1 and 7, ANT HOR



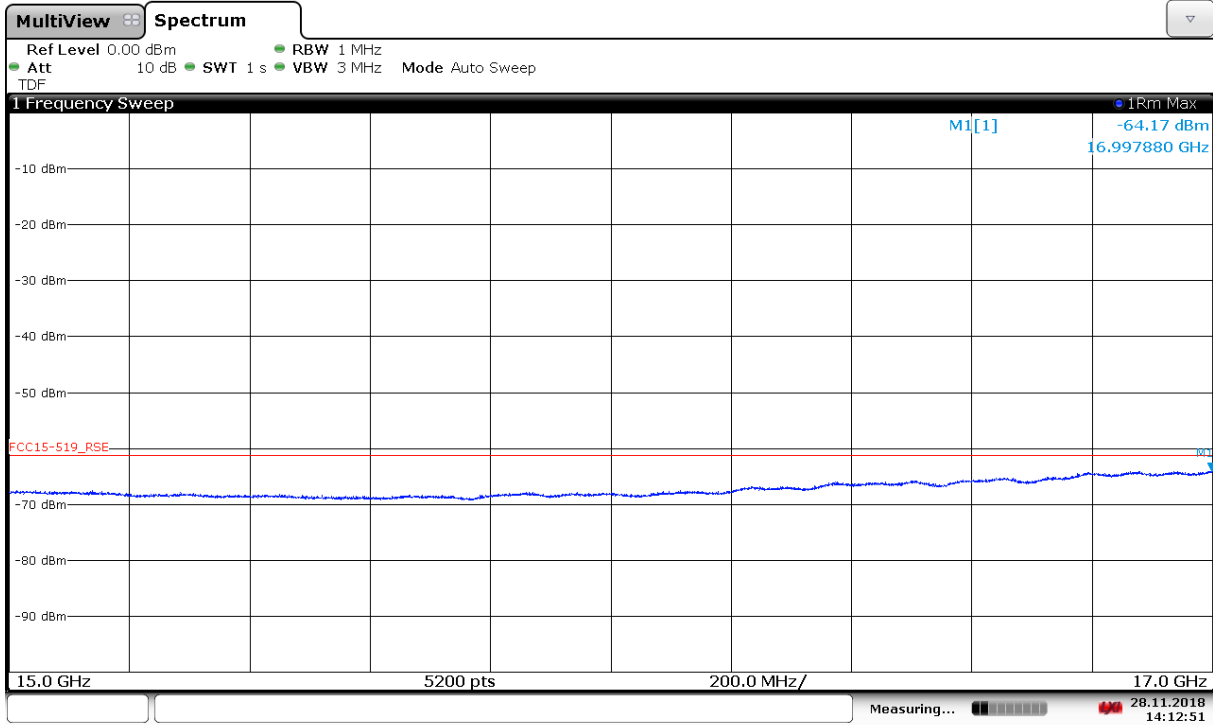
19:10:33 30.11.2018

5.22. Frequency range 10600 MHz – 15000 MHz, op. mode 1 and 7, ANT VER



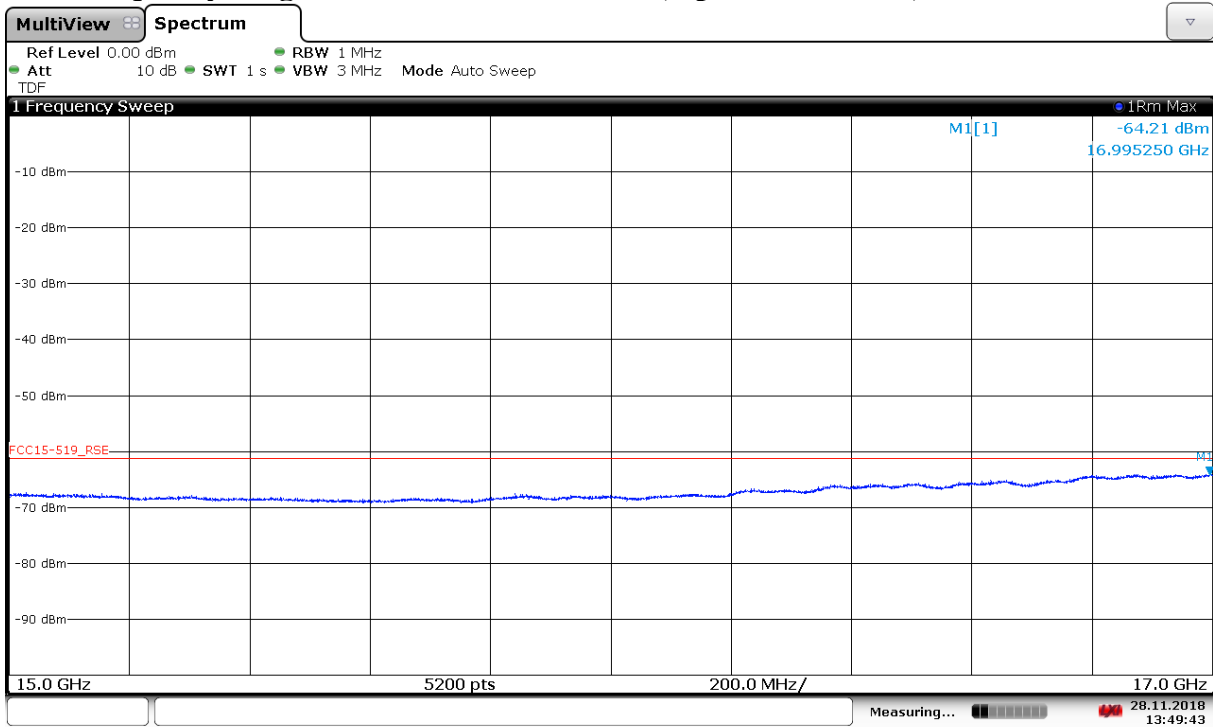
18:59:40 30.11.2018

5.23. Frequency range 15000 MHz – 17000 MHz, op. mode 1 and 7, ANT HOR



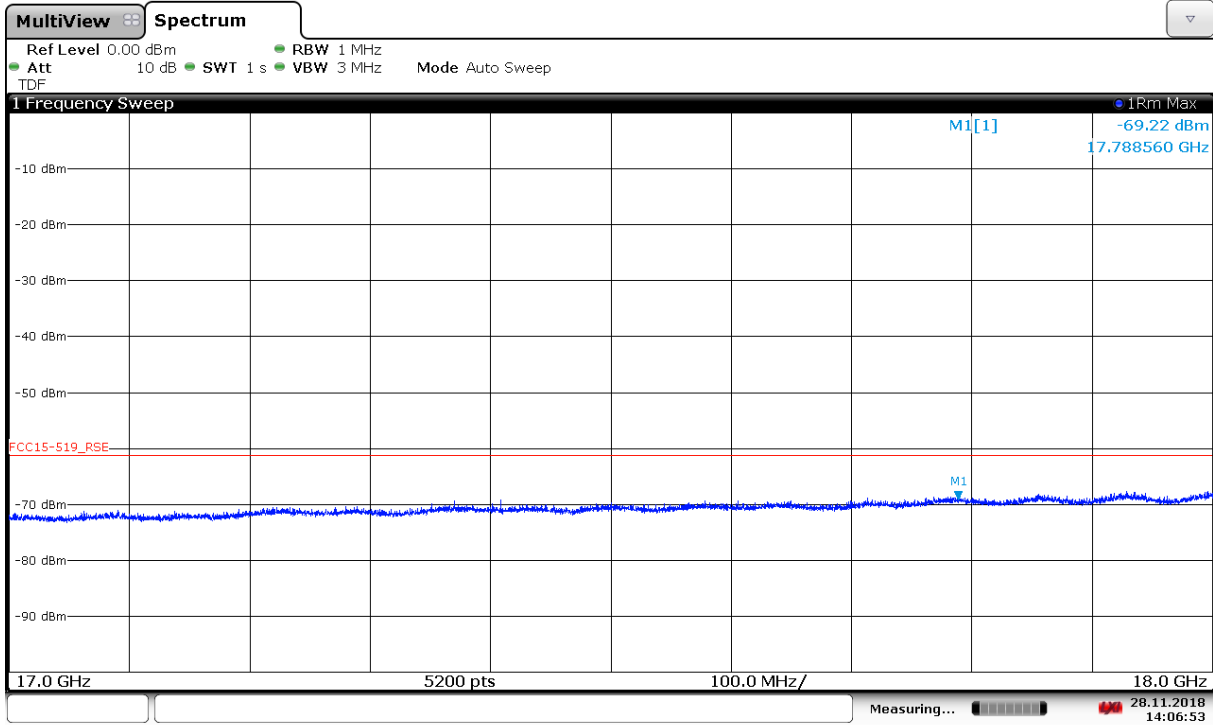
14:12:51 28.11.2018

5.24. Frequency range 15000 MHz – 17000 MHz, op. mode 1 and 7, ANT VER



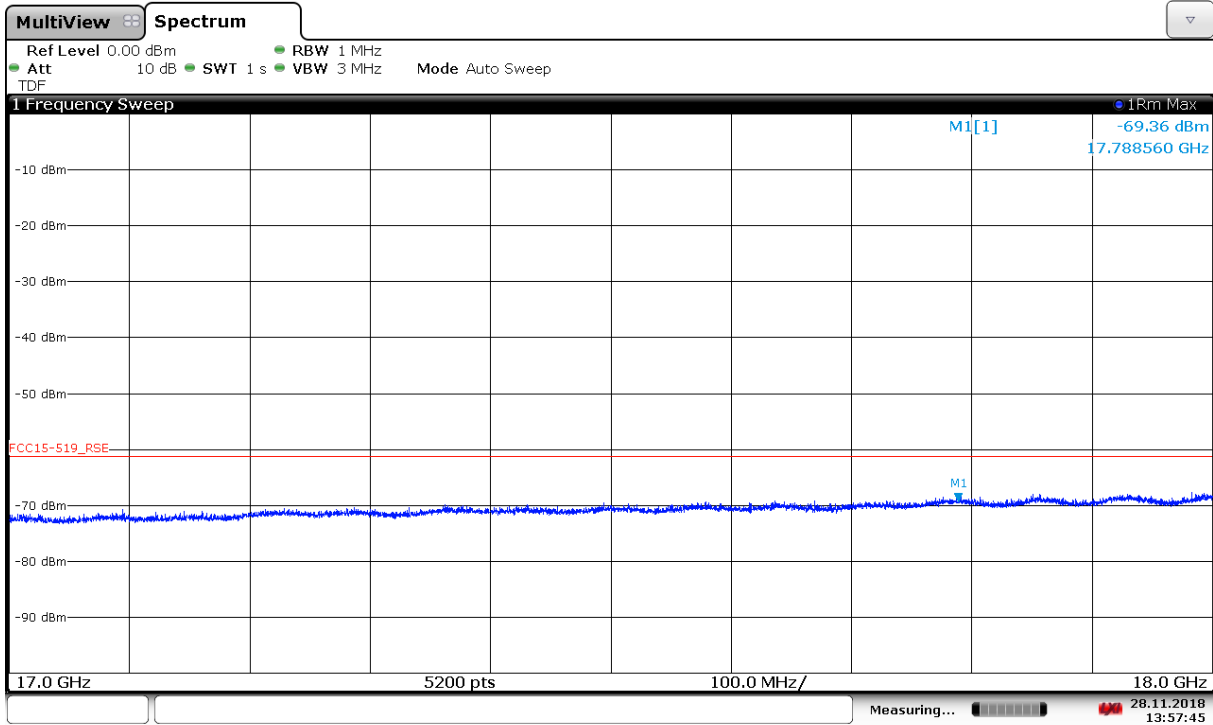
13:49:43 28.11.2018

5.25. Frequency range 17000 MHz – 18000 MHz, op. mode 1 and 7, ANT HOR



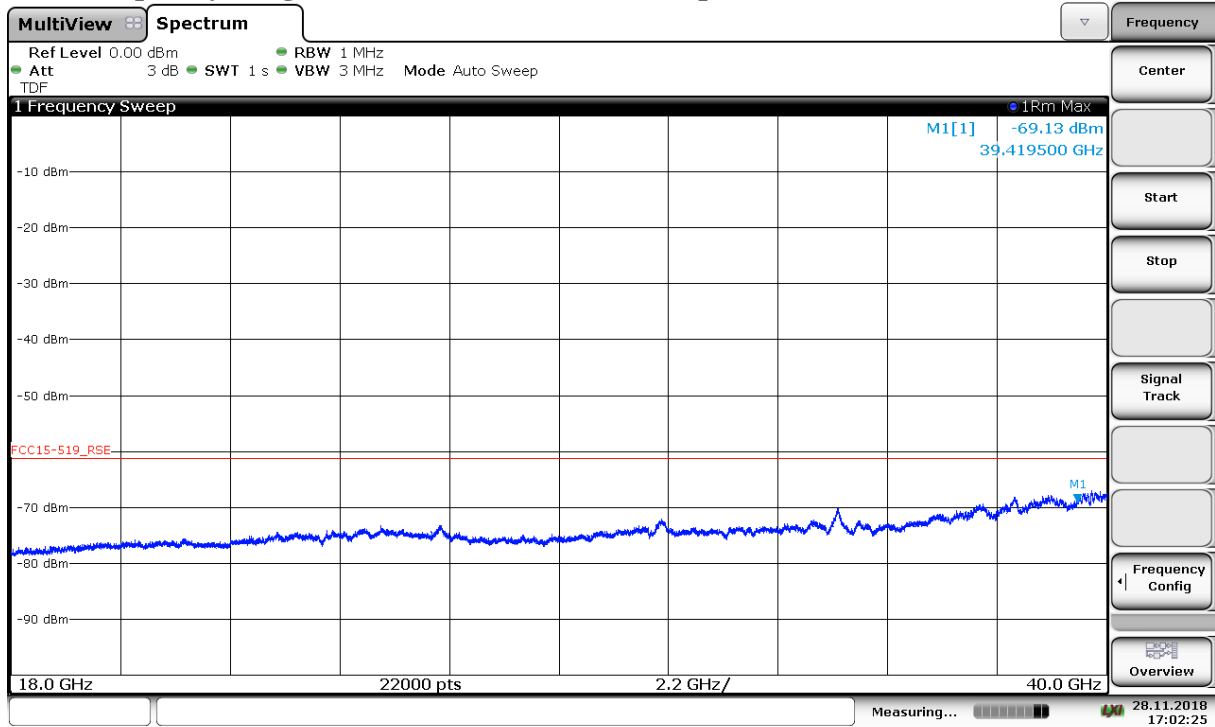
14:06:54 28.11.2018

5.26. Frequency range 17000 MHz – 18000 MHz, op. mode 1 and 7, ANT VER



13:57:45 28.11.2018

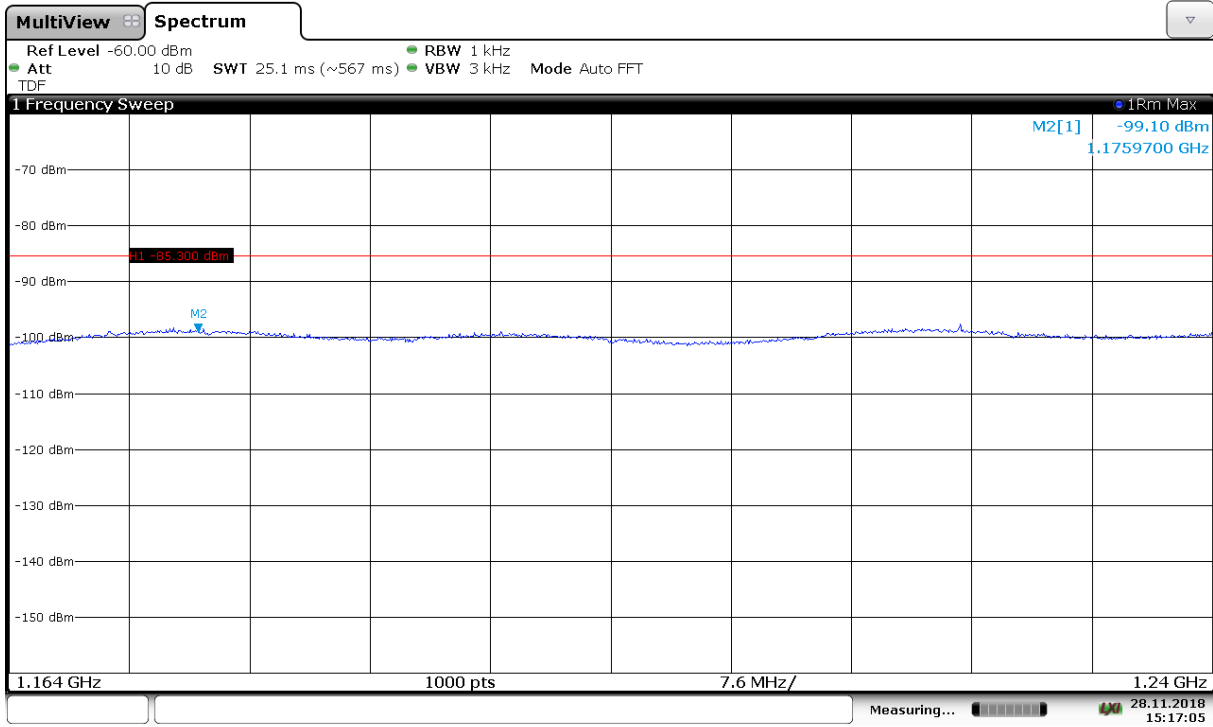
5.27. Frequency range 18000 MHz – 40000 MHz, op. mode 1 and 7, ANT HOR + VER



17:02:26 28.11.2018

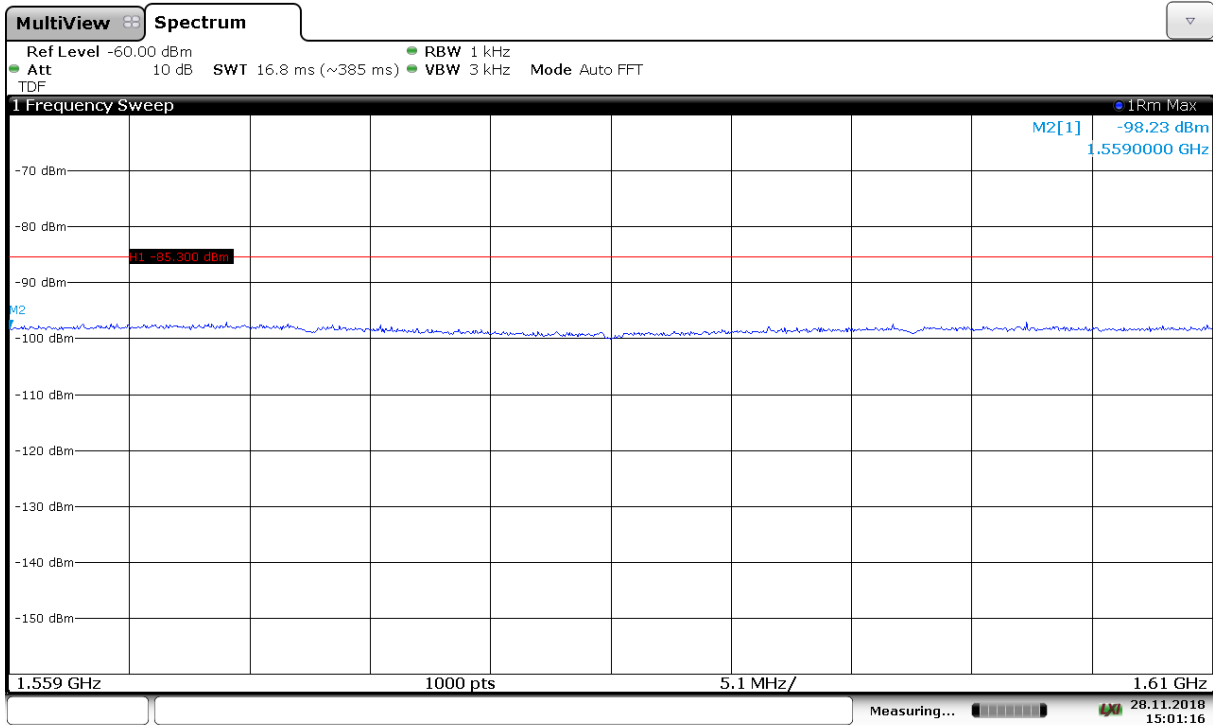
6. Radiated emissions in the GPS bands

6.1. Frequency range 1164 MHz – 1240 MHz, op. mode 1 and 7



15:17:05 28.11.2018

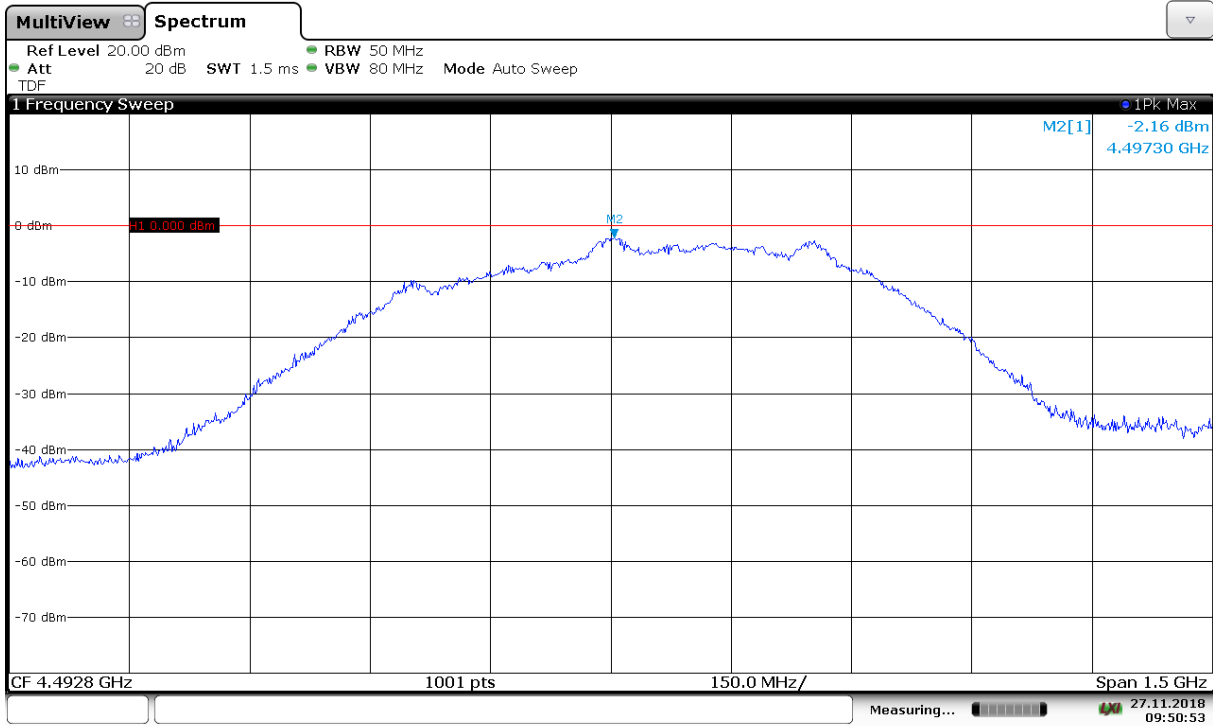
6.2. Frequency range 1559 MHz – 1610 MHz, op. mode 1 and 7



15:01:16 28.11.2018

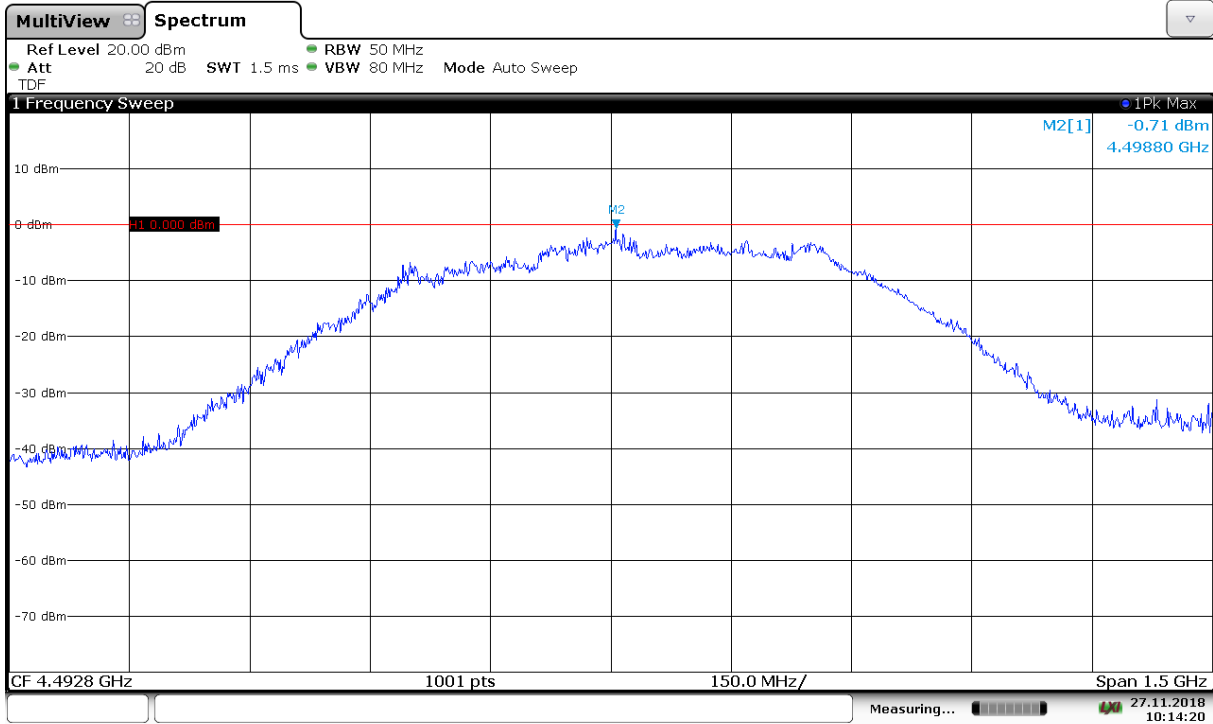
7. Fundamental emission peak power

7.1. Fundamental emission peak power, op. mode 1, ANT HOR



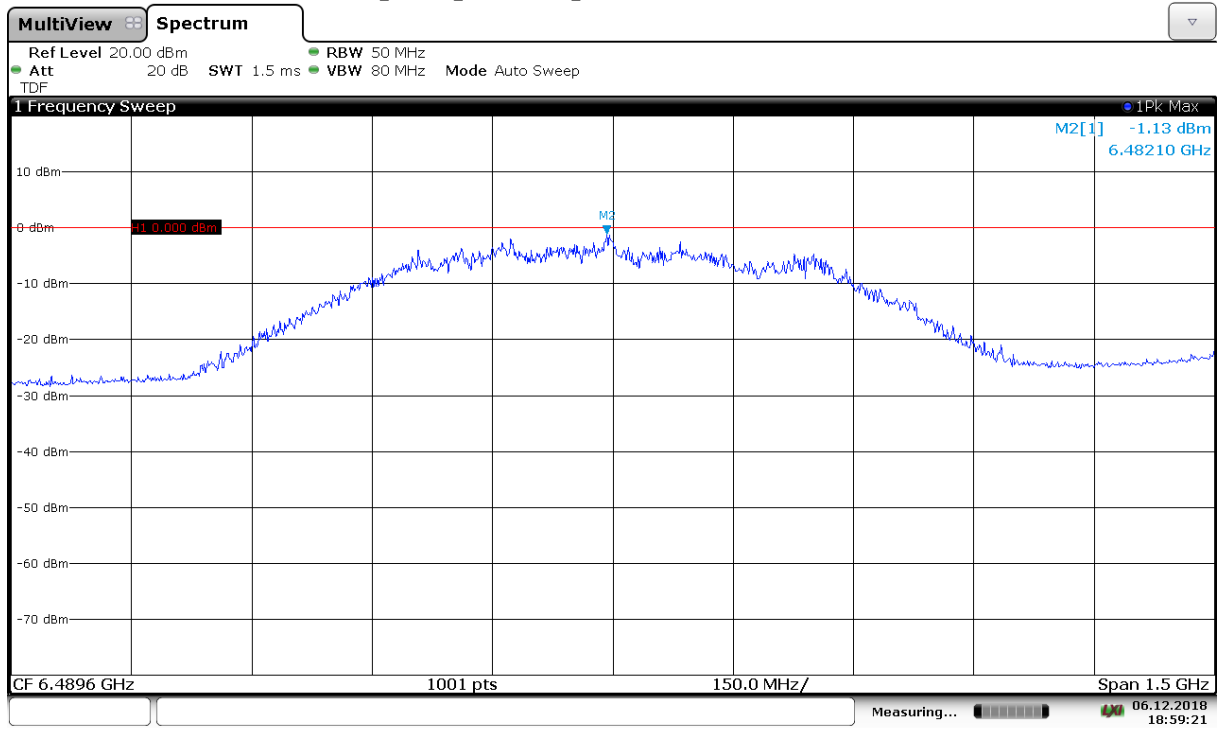
09:50:53 27.11.2018

7.2. Fundamental emission peak power, op. mode 1, ANT VER



10:14:20 27.11.2018

7.3. Fundamental emission peak power, op. mode 7



18:59:21 06.12.2018