



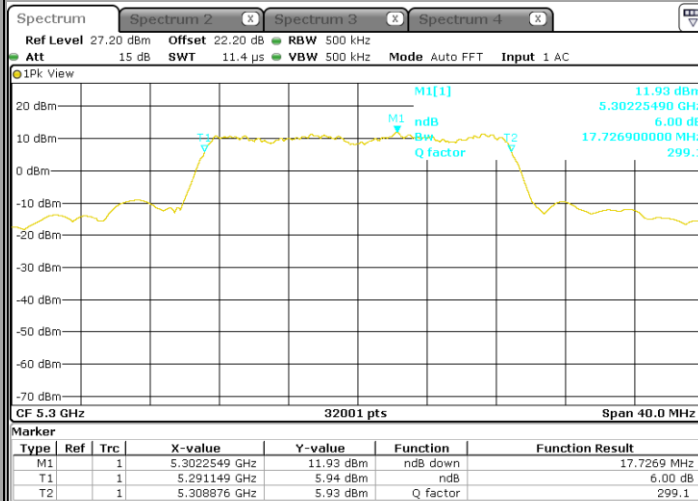
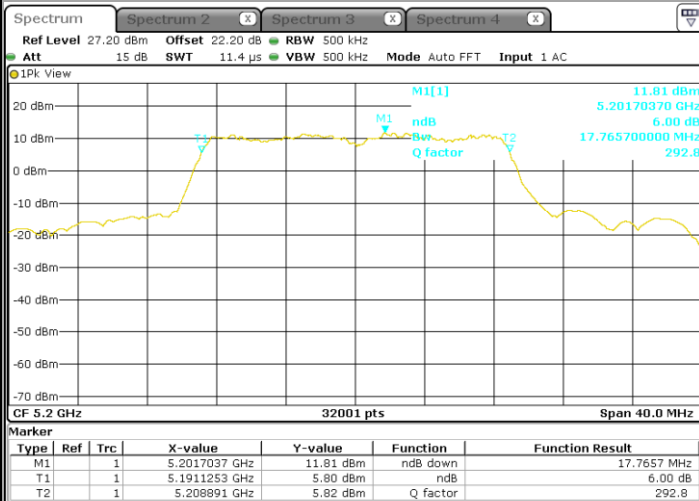
802.11a/802.11nHT20/ac VHT20

Tmax

Vnom

C2

C5

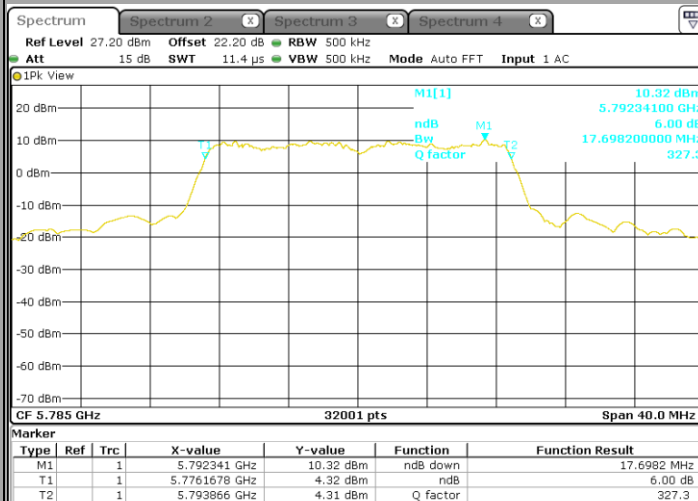
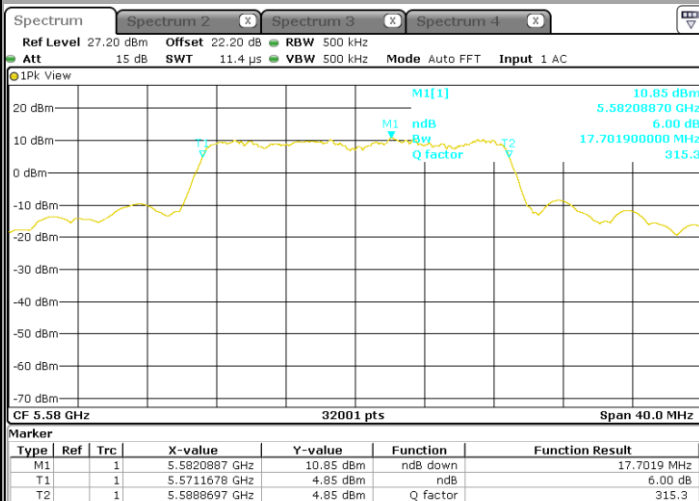


Date: 25 SEP. 2018 15:56:27

Date: 25 SEP. 2018 16:00:31

C8

C12



Date: 25 SEP. 2018 16:04:30

Date: 25 SEP. 2018 16:07:47

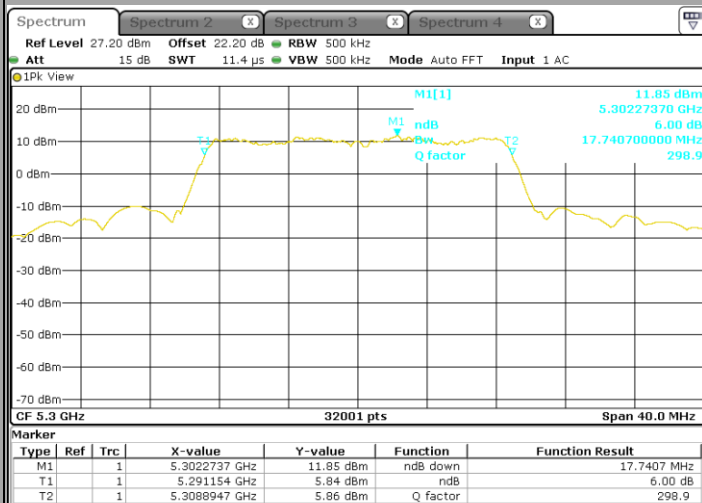
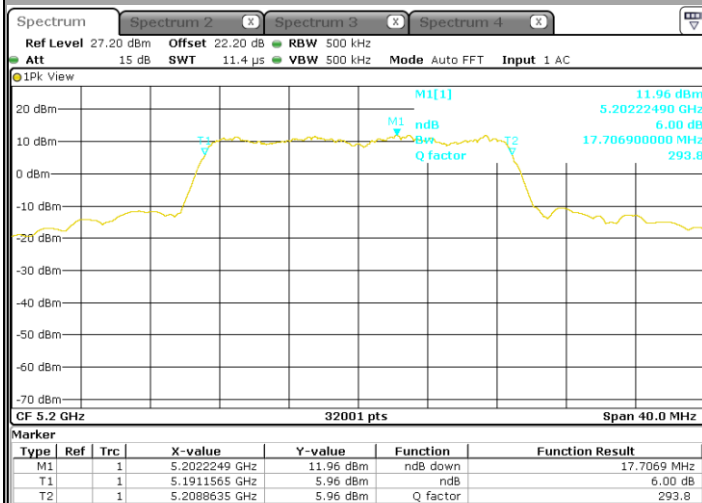
802.11a/802.11nHT20/ac VHT20

Tmax

Vmax

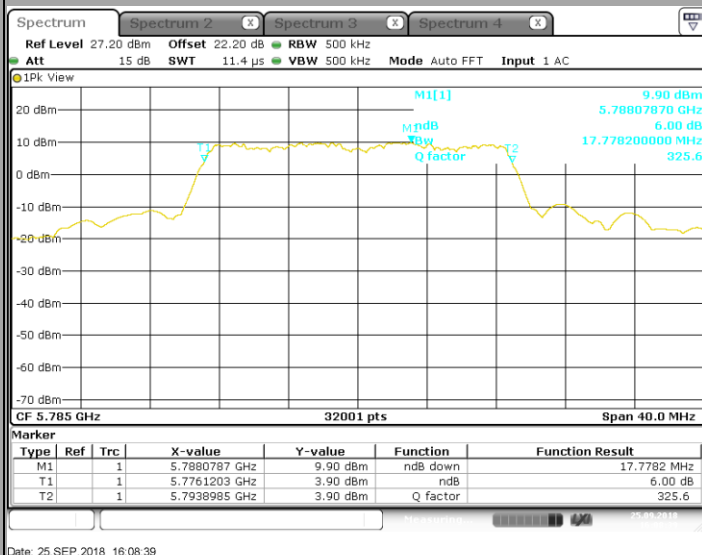
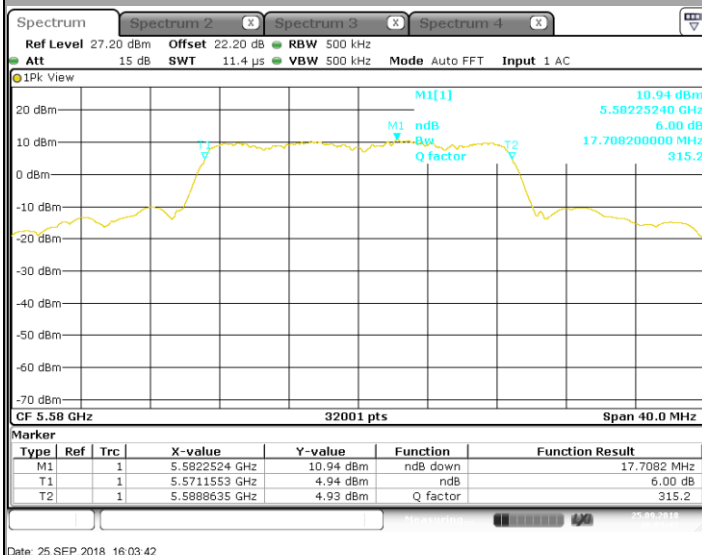
C2

C5



C8

C12





802.11a/802.11nHT20/ac VHT20

Temperature	Tmin				Tnom				Tmax			
Voltage	Vmin											
Channel	C2	C5	C8	C12	C2	C5	C8	C12	C2	C5	C8	C12
Frequency drift (ppm)	12,6	13,7	12,5	10,2	3,2	4,0	4,6	-1,3	3,1	2,5	3,9	3,7
Voltage	Vnom											
Channel	C2	C5	C8	C12	C2	C5	C8	C12	C2	C5	C8	C12
Frequency drift (ppm)	10,3	11,1	15,7	6,1	-0,1	-0,9	3,3	3,3	1,5	2,4	3,3	2,9
Voltage	Vmax											
Channel	C2	C5	C8	C12	C2	C5	C8	C12	C2	C5	C8	C12
Frequency drift (ppm)	12,8	13,4	9,1	11,7	2,5	4,1	0,5	0,1	1,8	4,6	1,6	1,6

4.7. CONCLUSION

Carrier frequencies measurement performed on the sample of the product **Sagemcom® Sound Box SBDV01**, SN: **253770742**, in configuration and description presented in this test report, show levels **compliant** to the 47 CFR PART 15.407 limits.

5. 26dB EMISSION BANDWIDTH

5.1. TEST CONDITIONS

Test performed by : Armand MAHOUNGOU
Date of test : September 21, 2018 to September 24, 2018
Ambient temperature : 27°C & 29°C
Relative humidity : 48% & 47%

5.2. TEST SETUP

- The Equipment Under Test is installed:

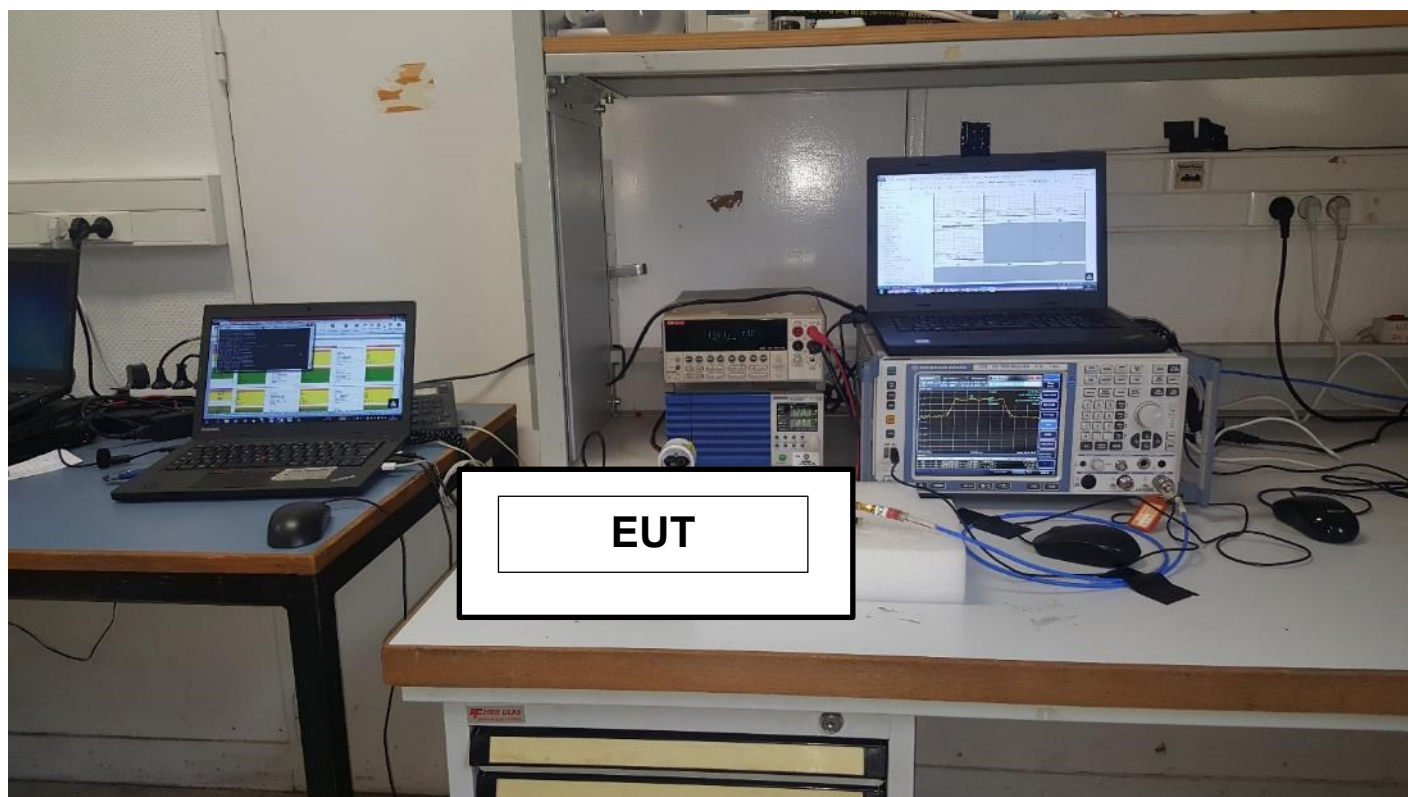
- ☒ On a table
- ☐ In an anechoic chamber

- Measurement is performed with a spectrum analyzer in:

- ☒ Conducted Method
- ☐ Radiated Method

- Test Procedure:

- ☒ KDB 789033 D02 General UNII Test Procedures New Rules v02r01 § C1



Photograph for 26dB emission bandwidth



5.3. LIMIT

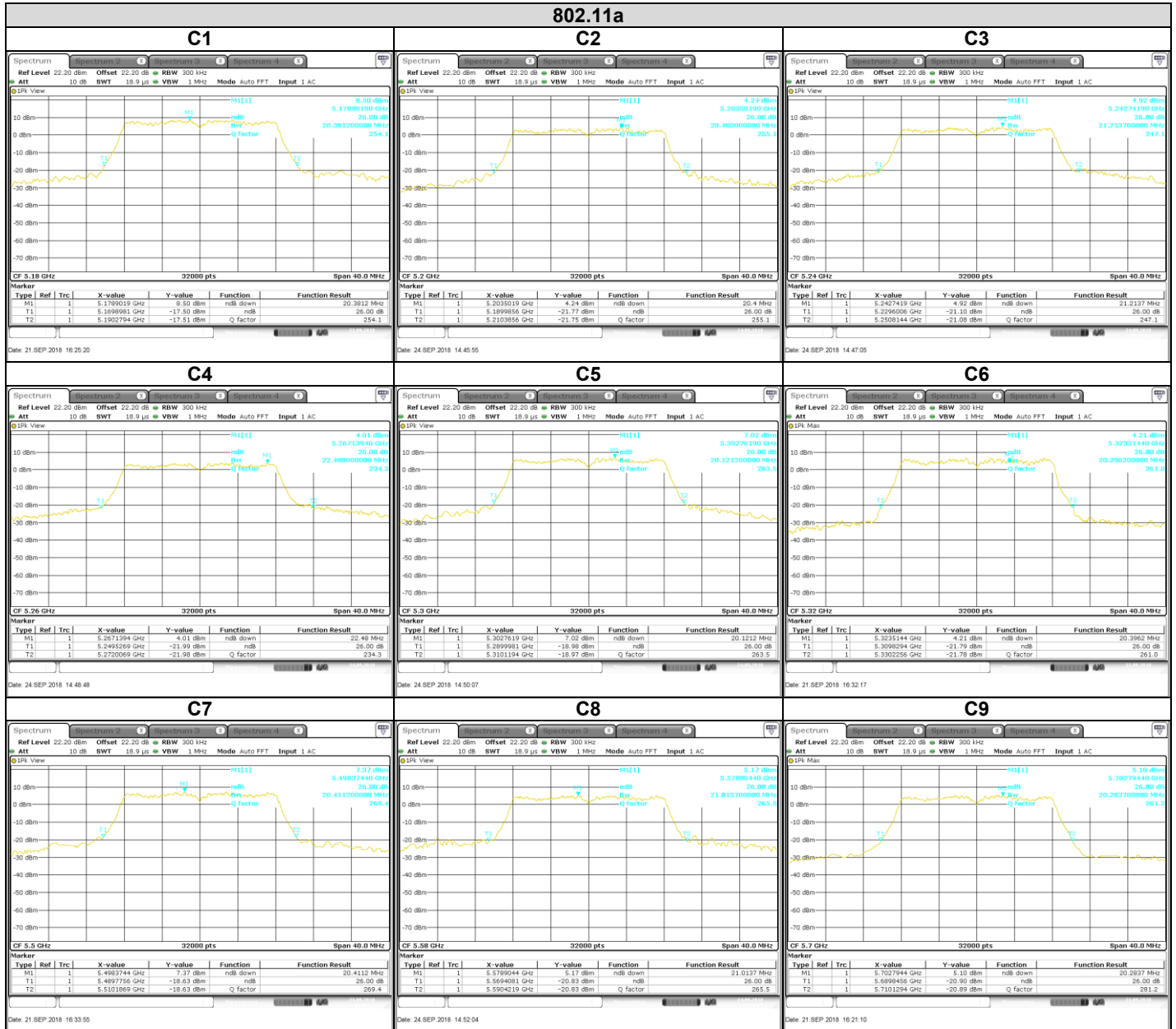
None

5.4. TEST EQUIPMENT LIST

DESCRIPTION	MANUFACTURER	MODEL	N° LCIE	Cal_Date	Cal_Due
EMI receiver	ROHDE & SCHWARZ	ESR 7	A2642023	2016/11	2018/11
Multimeter	KEITHLEY	2000	A1242090	2017/05	2019/05
Power supply	KIKUSUI	PCR500M	A7040079	Cal with Multimeter	Cal with Multimeter
Cable	TELEDYNE	920-0202-048	A5329674	2017/10	2018/10

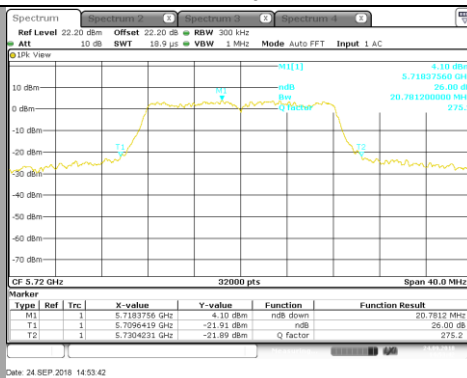
Note: In our quality system, the test equipment calibration due is more & less 2 months

5.5. RESULTS



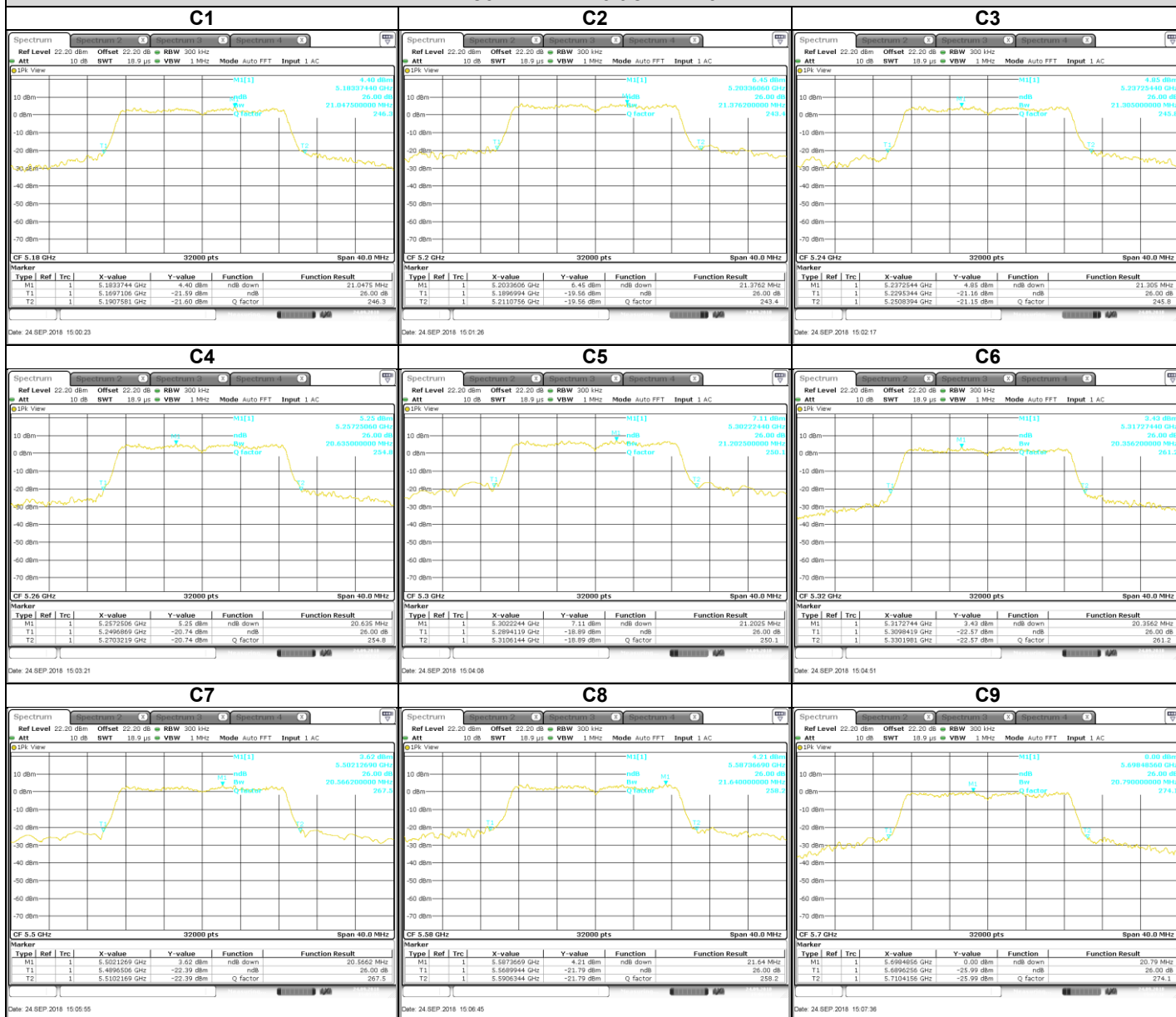
802.11a

C10



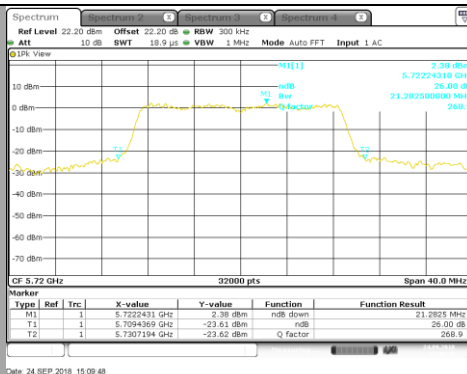
Channel	26dB Emission Bandwidth (MHz)
C1	20.38
C2	20.40
C3	21.21
C4	22.48
C5	20.12
C6	20.39
C7	20.41
C8	21.01
C9	20.28
C10	20.78

802.11n HT20/ac VHT20



802.11n HT20/ac VHT20

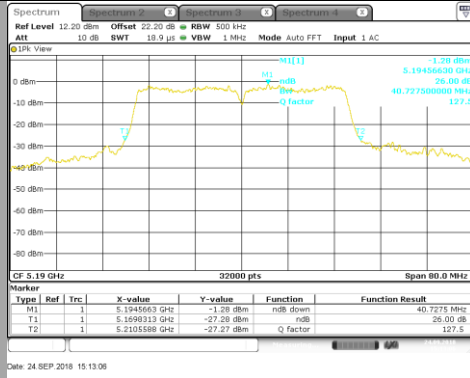
C10



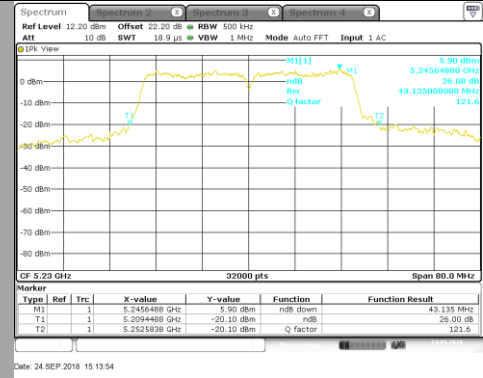
Channel	26dB Emission Bandwidth (MHz)
C1	21.05
C2	21.38
C3	21.30
C4	20.63
C5	21.20
C6	20.35
C7	20.57
C8	21.64
C9	20.79
C10	21.28

802.11n HT40/ac VHT40

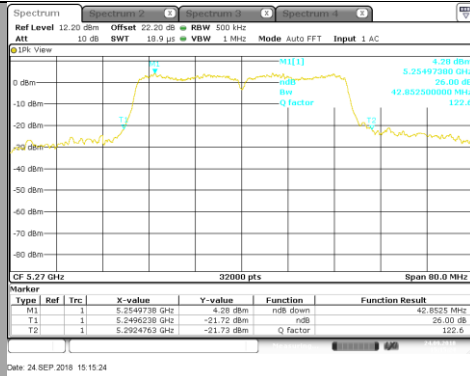
C14



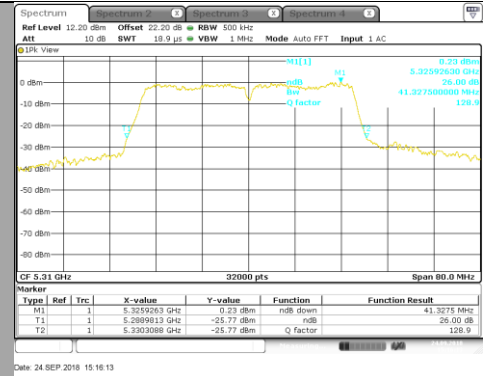
C15



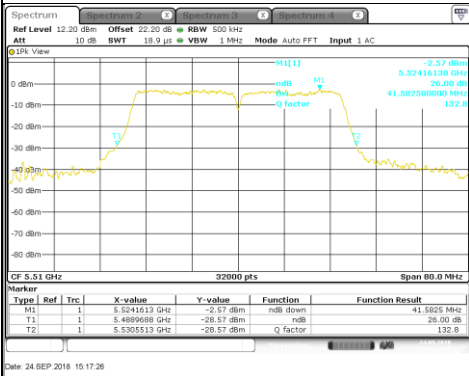
C16



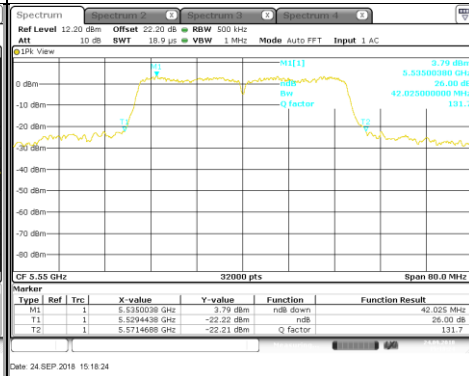
C17



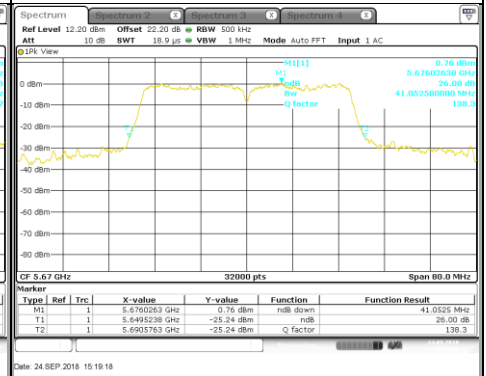
C18



C19

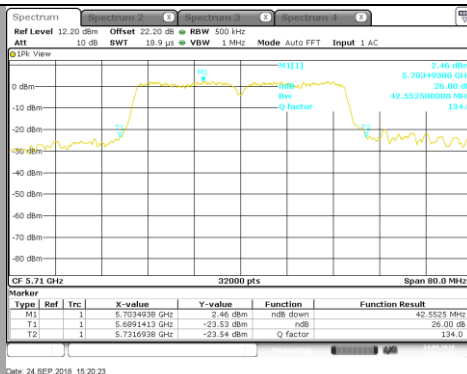


C20



802.11n HT40/ac VHT40

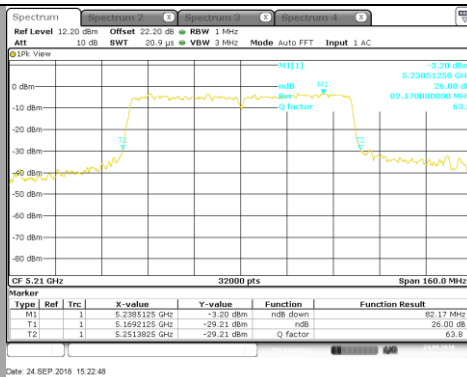
C21



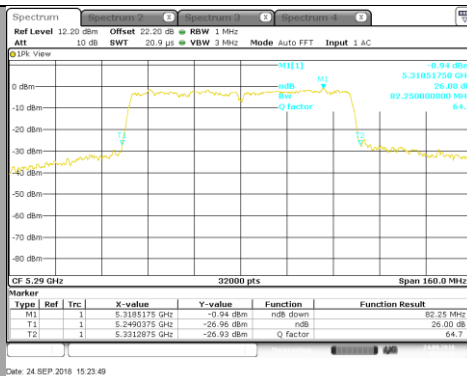
Channel	26dB Emission Bandwidth (MHz)
C14	40.73
C15	43.13
C16	42.85
C17	41.33
C18	41.58
C19	42.02
C20	41.05
C21	42.55

802.11ac VHT80

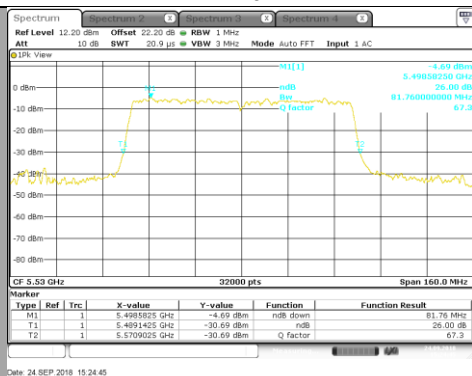
C24



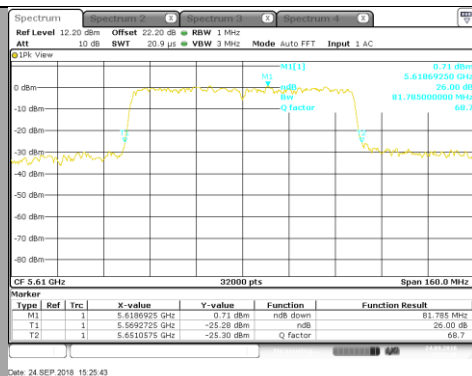
C25

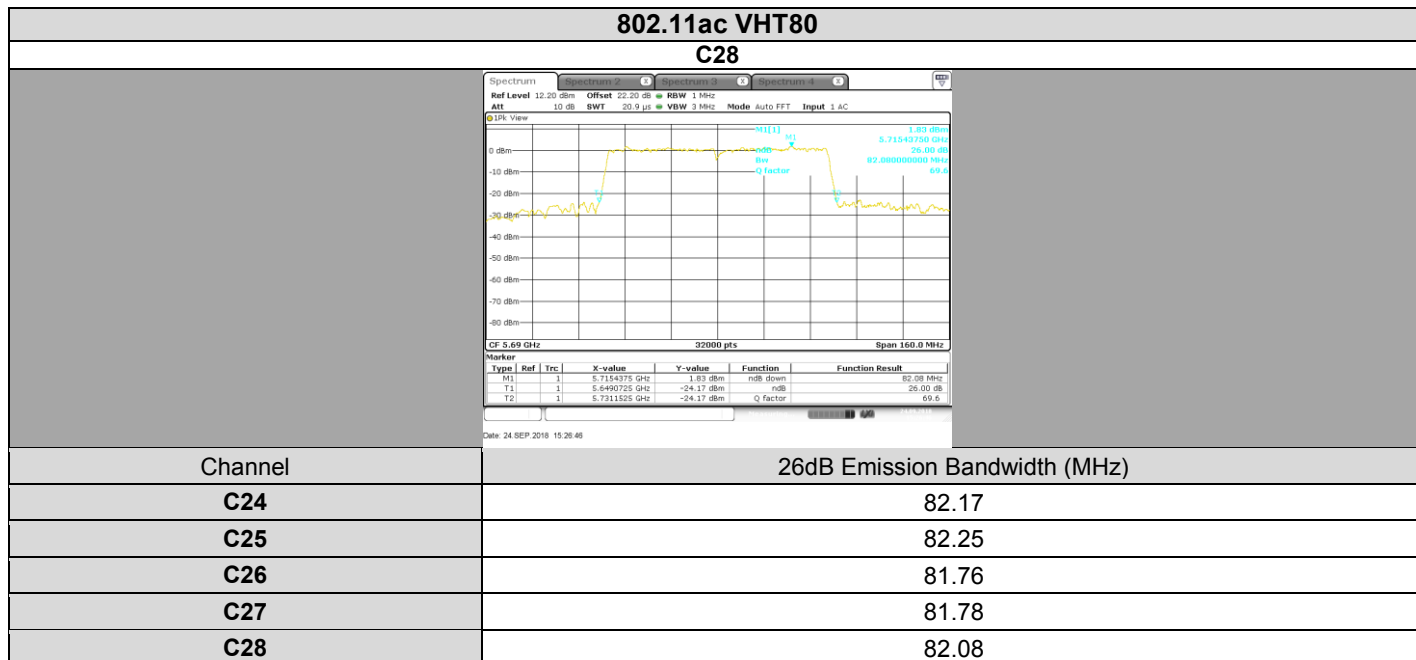


C26



C27





5.6. CONCLUSION

26dB Emission Bandwidth measurement performed on the sample of the product **Sagemcom® Sound Box SBDV01**, SN: **253770742**, in configuration and description presented in this test report, show levels **compliant** to the **47 CFR PART 15.407** limits.

6. 6dB EMISSION BANDWIDTH

6.1. TEST CONDITIONS

Test performed by : Armand MAHOUNGOU
Date of test : September 24, 2018
Ambient temperature : 26°C
Relative humidity : 45%

6.2. TEST SETUP

- The Equipment Under Test is installed:

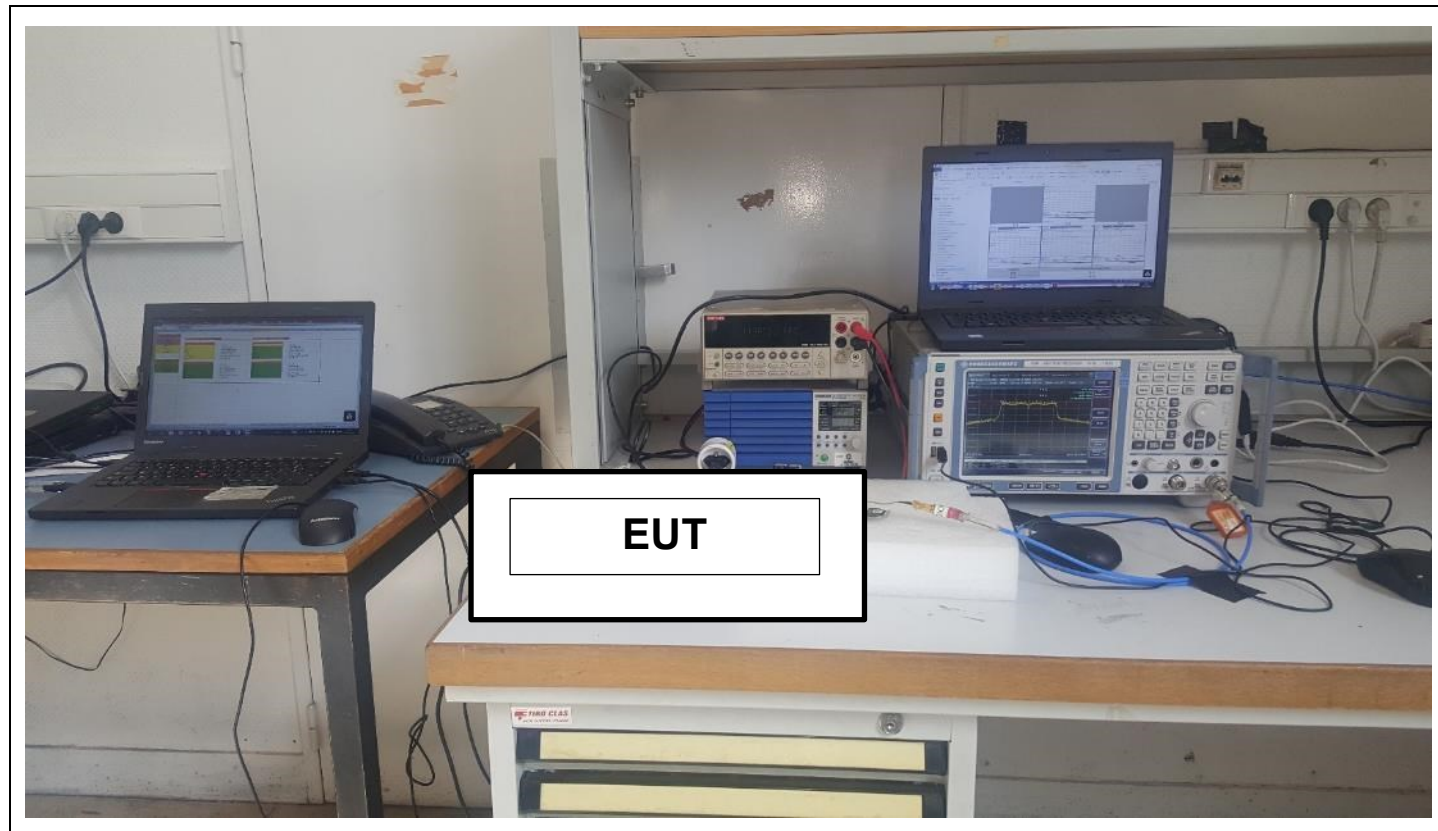
- ☒ On a table
- ☐ In an anechoic chamber

- Measurement is performed with a spectrum analyzer in:

- ☒ Conducted Method
- ☐ Radiated Method

- Test Procedure:

- ☒ KDB 789033 D02 General UNII Test Procedures New Rules v02r01 § C2



Photograph for 6dB emission bandwidth



6.3. LIMIT

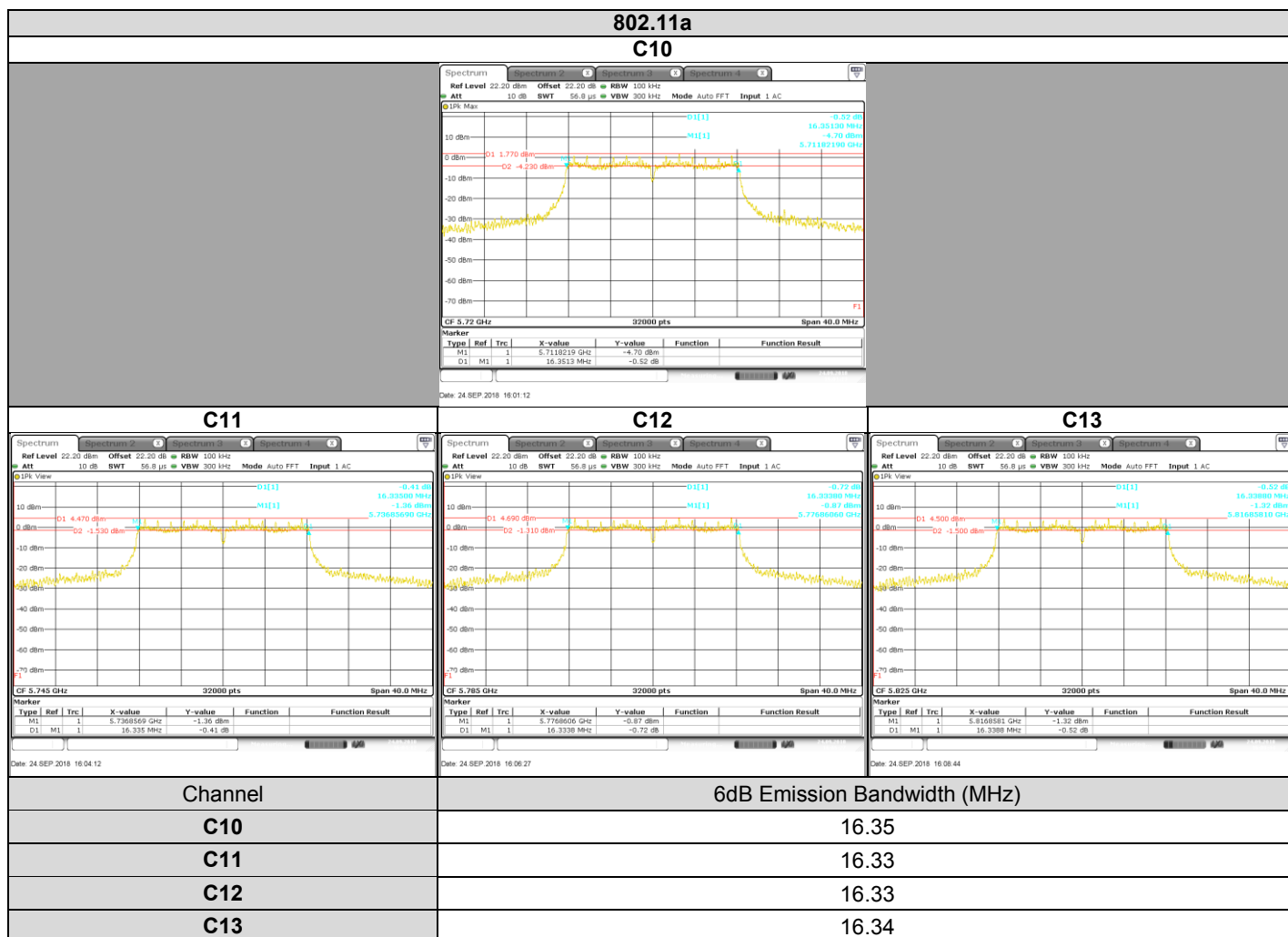
The 6dB bandwidth shall be at least 500kHz

6.4. TEST EQUIPMENT LIST

DESCRIPTION	MANUFACTURER	MODEL	N° LCIE	Cal_Date	Cal_Due
EMI receiver	ROHDE & SCHWARZ	ESR 7	A2642023	2016/11	2018/11
Multimeter	KEITHLEY	2000	A1242090	2017/05	2019/05
Power supply	KIKUSUI	PCR500M	A7040079	Cal with Multimeter	Cal with Multimeter
Cable	TELEDYNE	920-0202-048	A5329674	2017/10	2018/10

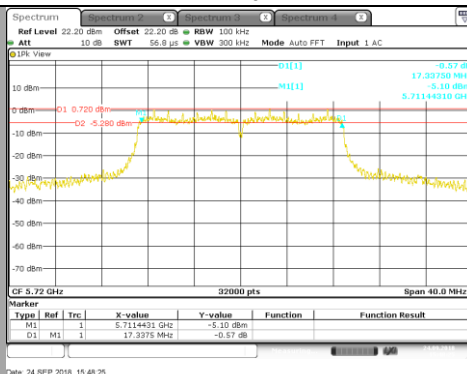
Note: In our quality system, the test equipment calibration due is more & less 2 months

6.5. RESULTS

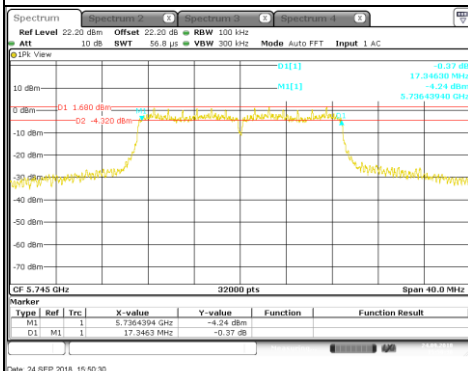


802.11n HT20/ac VHT20

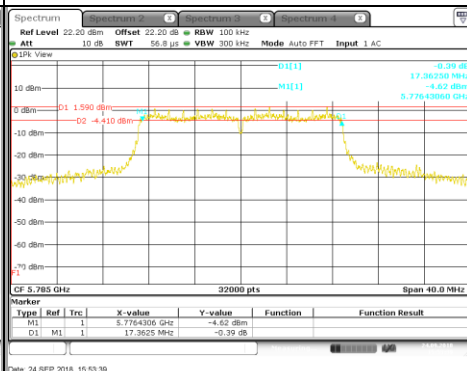
C10



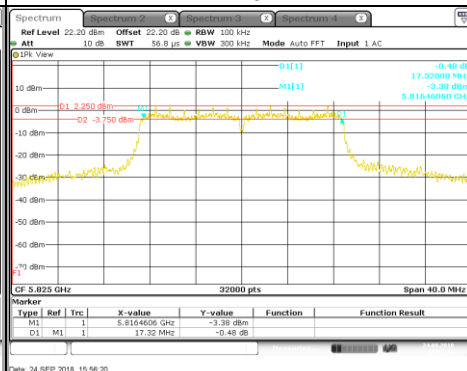
C11



C12



C13



Channel

6dB Emission Bandwidth (MHz)

C10

17.34

C11

17.35

C12

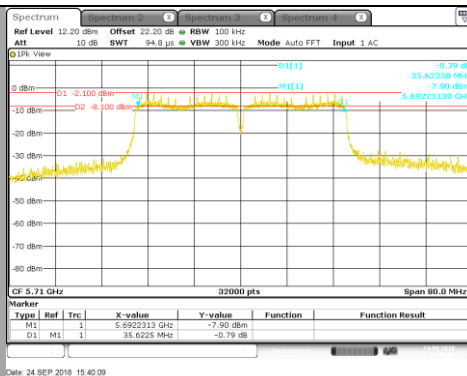
17.36

C13

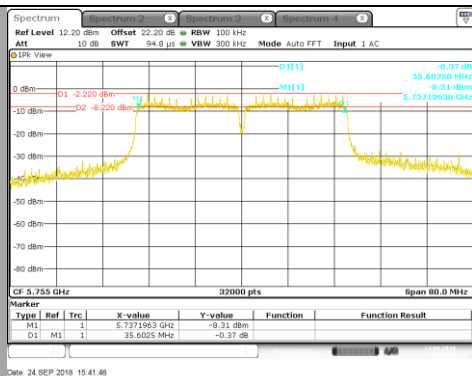
17.32

802.11n HT40/ac VHT40

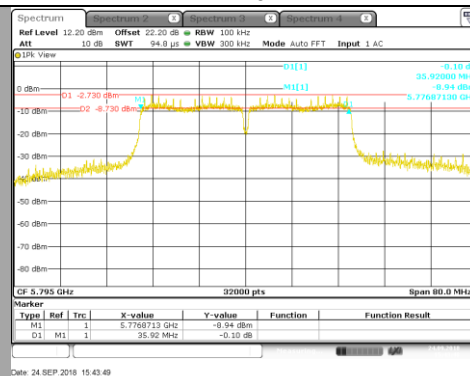
C21



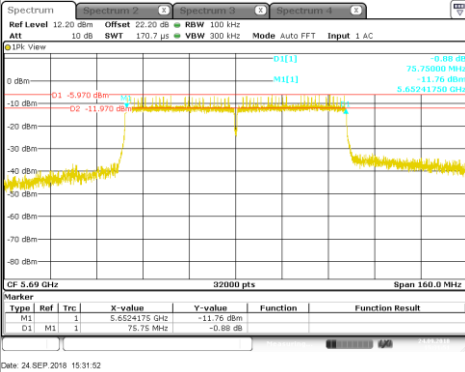
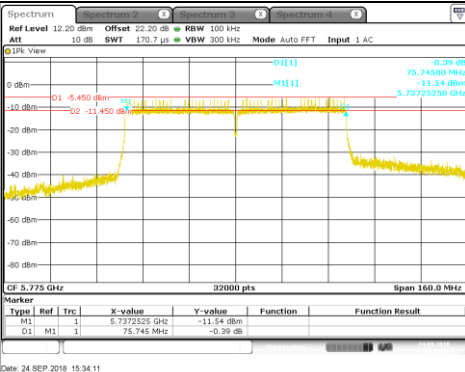
C22



C23



Channel	6dB Emission Bandwidth (MHz)
C21	35.62
C22	35.60
C23	35.92

802.11ac VHT80	
C28	
	
C29	
	
Channel	6dB Emission Bandwidth (MHz)
C28	75.75
C29	75.74

6.6. CONCLUSION

6dB Emission Bandwidth measurement performed on the sample of the product **Sagemcom® Sound Box SBDV01**, SN: **253770742**, in configuration and description presented in this test report, show levels **compliant** to the **47 CFR PART 15.407** limits.

7. DUTY CYCLE

7.1. TEST CONDITIONS

Test performed by : Armand MAHOUNGOU
Date of test : September 21, 2018
Ambient temperature : 27 °C
Relative humidity : 48 %

7.2. TEST SETUP

- The Equipment Under Test is installed:

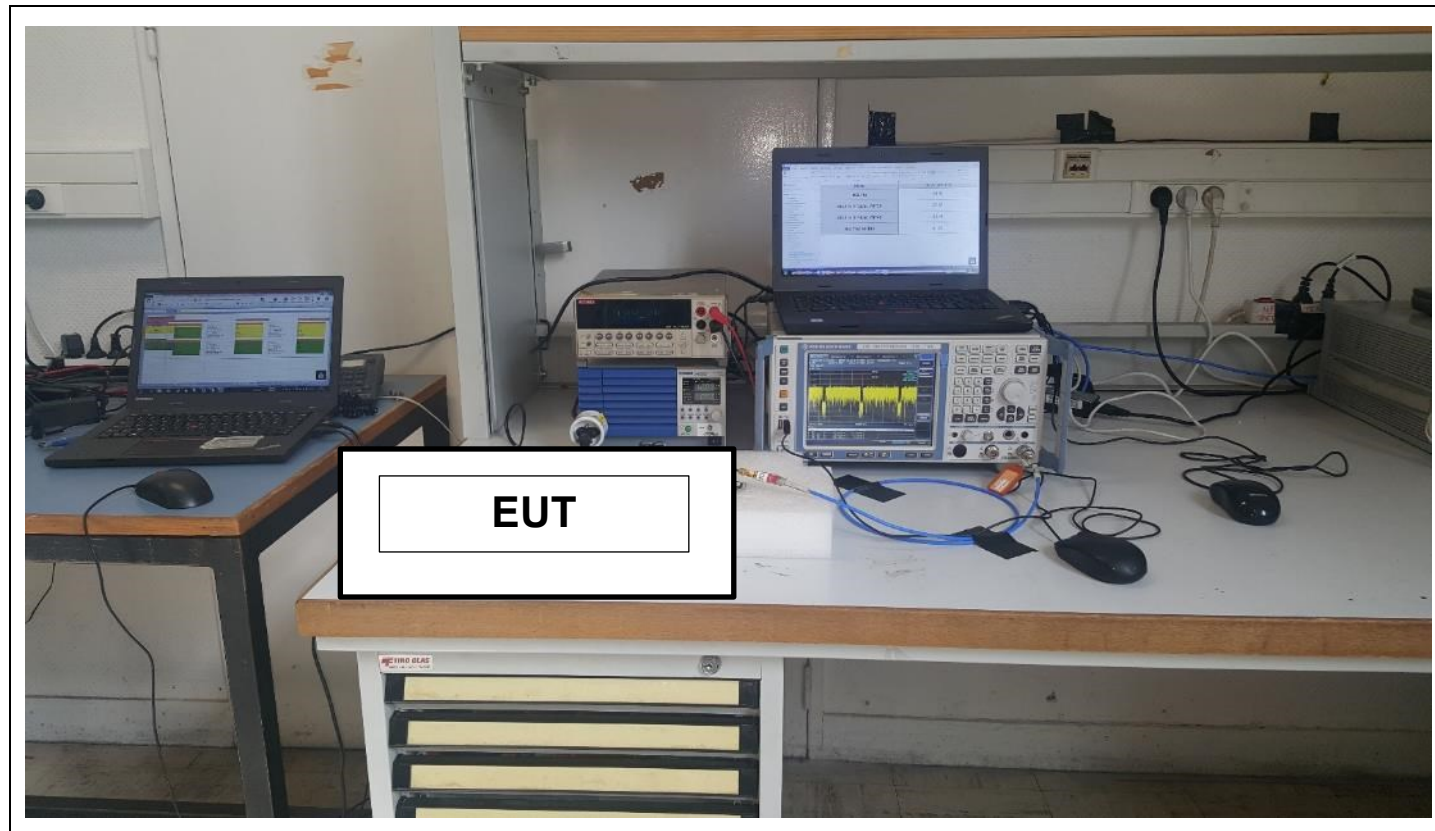
- ☒ On a table
- ☐ In an anechoic chamber

- Measurement is performed with a spectrum analyzer in:

- ☒ Conducted Method
- ☐ Radiated Method

- Test Procedure:

- ☒ KDB 789033 D02 General UNII Test Procedures New Rules v02r01 § B2 b)



Photograph for Duty Cycle



7.3. LIMIT

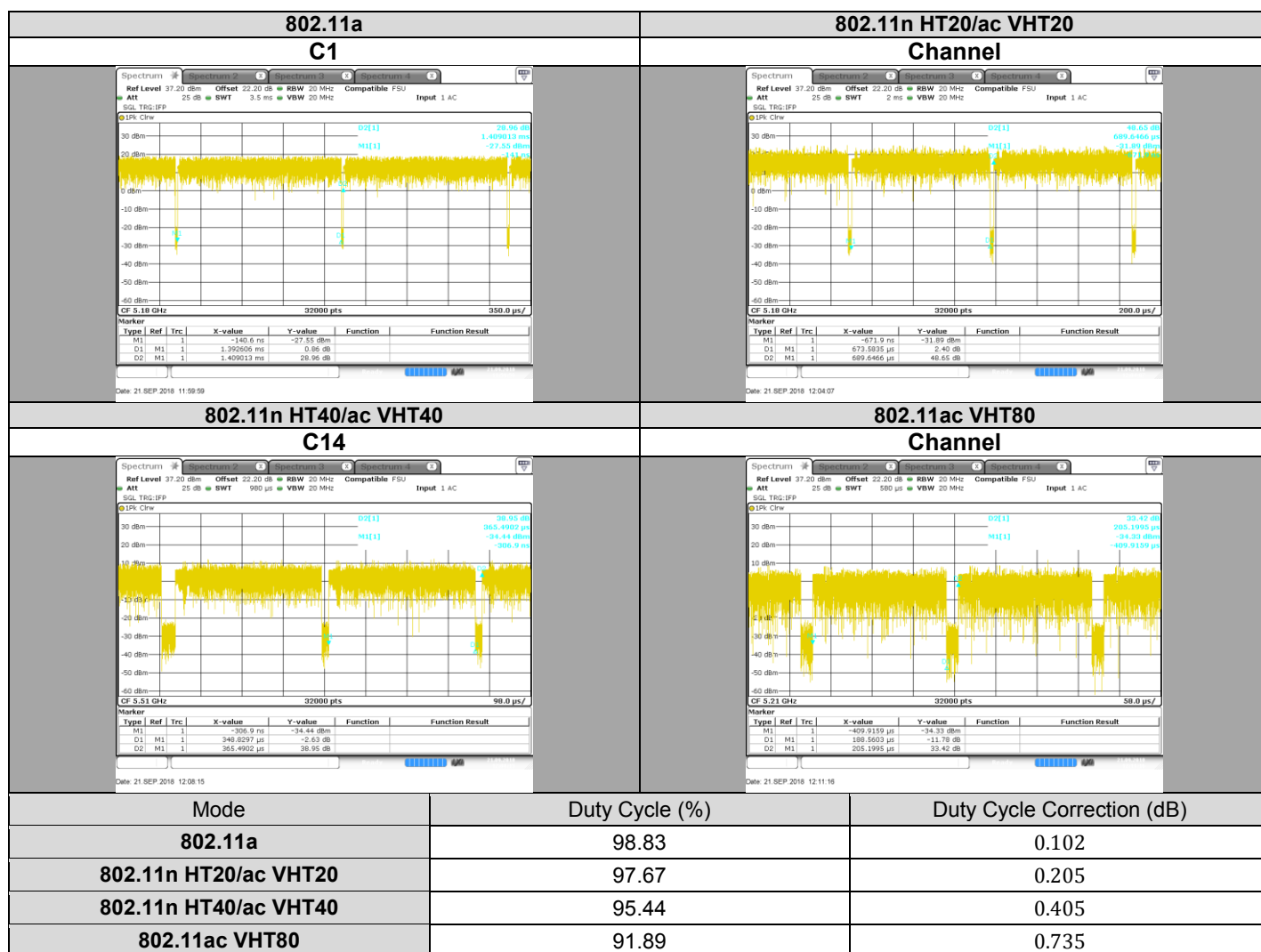
None

7.4. TEST EQUIPMENT LIST

ESCRPTION	MANUFACTURER	MODEL	N° LCIE	Cal_Date	Cal_Due
EMI receiver	ROHDE & SCHWARZ	ESR 7	A2642023	2016/11	2018/11
Multimeter	KEITHLEY	2000	A1242090	2017/05	2019/05
Power supply	KIKUSUI	PCR500M	A7040079	Cal with Multimeter	Cal with Multimeter
Cable	TELEDYNE	920-0202-048	A5329674	2017/10	2018/10

Note: In our quality system, the test equipment calibration due is more & less 2 months

7.5. RESULTS



7.6. CONCLUSION

Duty Cycle measurement performed on the sample of the product **Sagemcom® Sound Box SBDV01**, SN: **253770742**, in configuration and description presented in this test report, show levels **compliant** to the **47 CFR PART 15.407** limits.

8. MAXIMUM CONDUCTED OUTPUT POWER, MAXIMUM POWER SPECTRAL DENSITY, MAXIMUM EIRP, MAXIMUM EIRP SPECTRAL DENSITY

8.1. TEST CONDITIONS

Test performed by : Armand MAHOUNGOU
Date of test : September 25, 2018
Ambient temperature : 26 °C
Relative humidity : 44 %

8.2. TEST SETUP

- The Equipment Under Test is installed:

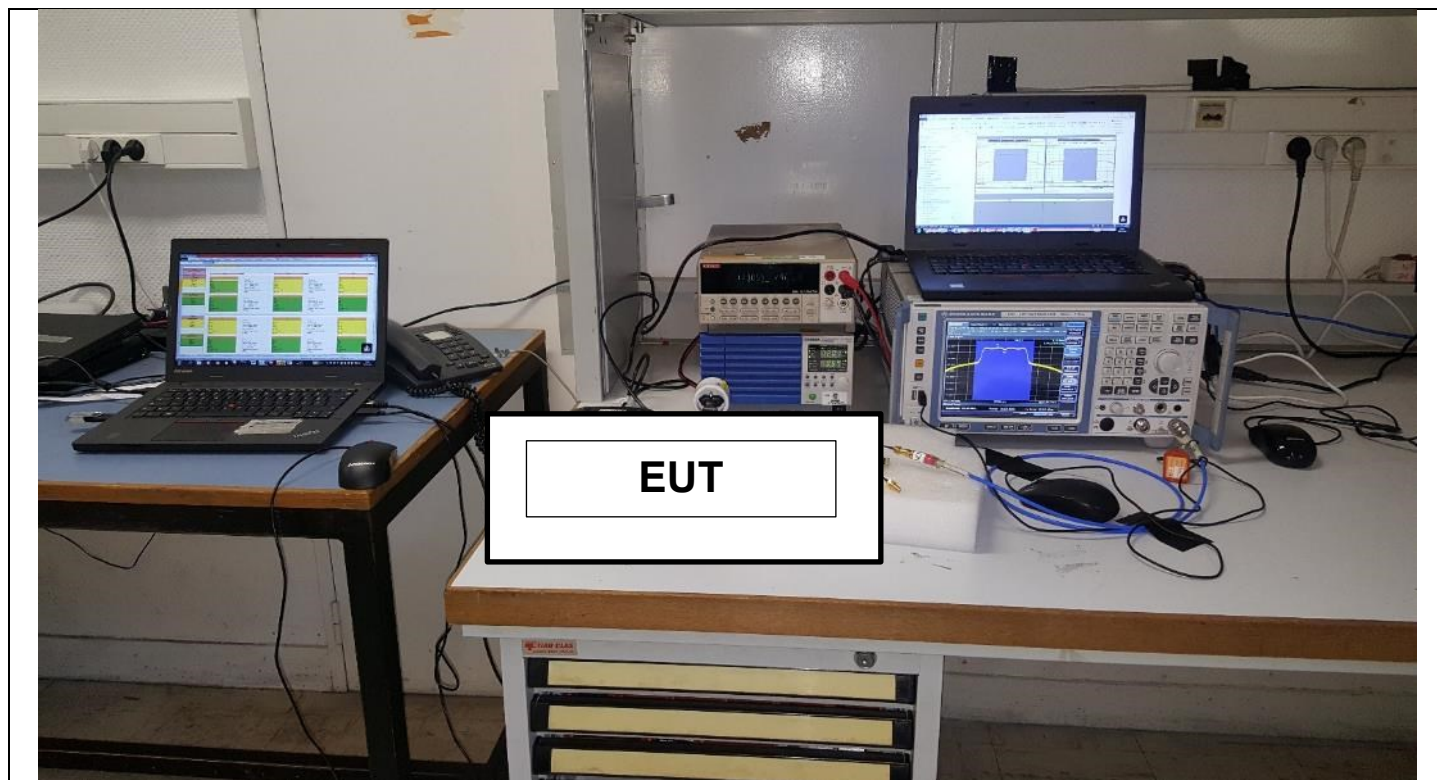
- ☒ On a table
- ☐ In an anechoic chamber

- Measurement is performed with a spectrum analyzer in:

- ☒ Conducted Method
- ☐ Radiated Method

- Test Procedure:

- ☒ KDB 789033 D02 General UNII Test Procedures New Rules v02r01 § E2 b) (Method SA-1) & F
- ☐ KDB 789033 D02 General UNII Test Procedures New Rules v02r01 § E2 c) (Method SA-2) & F
- ☒ KDB 662911 D01 Multiple Transmitter Output v02r01



Photograph for Maximum Conducted Output Power



8.3. LIMIT

FCC Part 15.407

Maximum Conducted Output power:

5150MHz-5250MHz: Shall not exceed 30dBm for Indoor Access Point devices & 24dBm for Client devices

5250MHz-5350MHz: Shall not exceed 24dBm or $11\text{dBm} + 10 \cdot \log(-26\text{dB Bandwidth (MHz)})$

5470MHz-5725MHz: Shall not exceed 24dBm or $11\text{dBm} + 10 \cdot \log(-26\text{dB Bandwidth (MHz)})$

5725MHz-5850MHz: Shall not exceed 30dBm

Limits are reduced by G-6dBi if Overall Antenna Gain above 6dBi

Maximum Power Spectral Density:

5150MHz-5250MHz: Shall not exceed 17dBm/MHz for Indoor Access Point & 11dBm/MHz for Client devices

5250MHz-5350MHz: Shall not exceed 11dBm/MHz

5470MHz-5725MHz: Shall not exceed 11dBm/MHz

5725MHz-5850MHz: Shall not exceed 30dBm/500kHz

Limits are reduced by G-6dBi if Overall Antenna Gain above 6dBi



8.4. TEST EQUIPMENT LIST

DESCRIPTION	MANUFACTURER	MODEL	N° LCIE	Cal_Date	Cal_Due
EMI receiver	ROHDE & SCHWARZ	ESR 7	A2642023	2016/11	2018/11
Multimeter	KEITHLEY	2000	A1242090	2017/05	2019/05
Power supply	KIKUSUI	PCR500M	A7040079	Cal with Multimeter	Cal with Multimeter
Cable	TELEDYNE	920-0202-048	A5329674	2017/10	2018/10

Note: In our quality system, the test equipment calibration due is more & less 2 months

8.1. RESULTS

