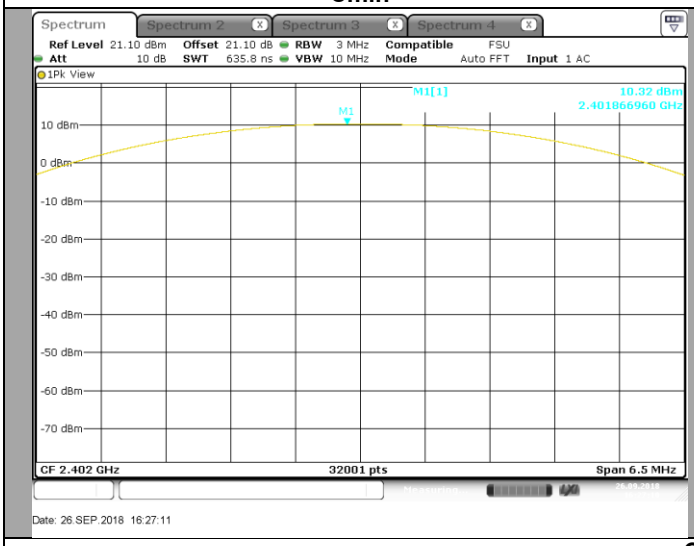
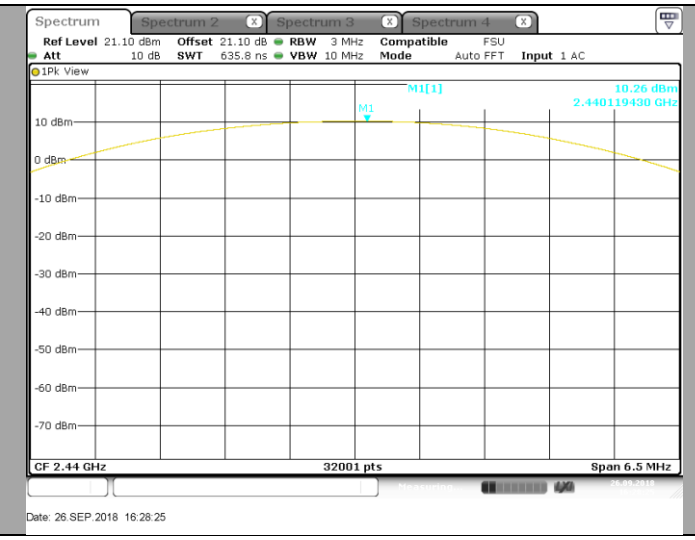
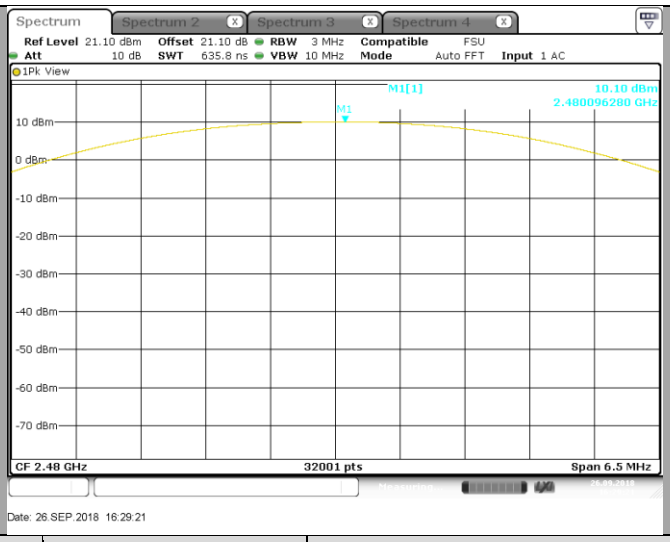
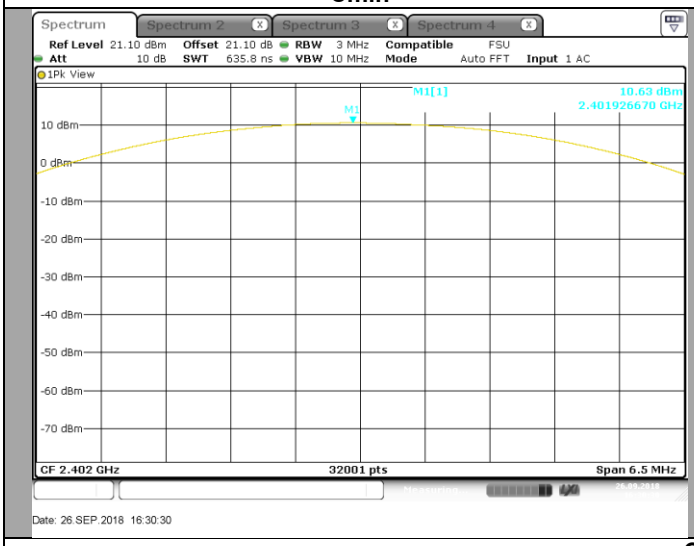
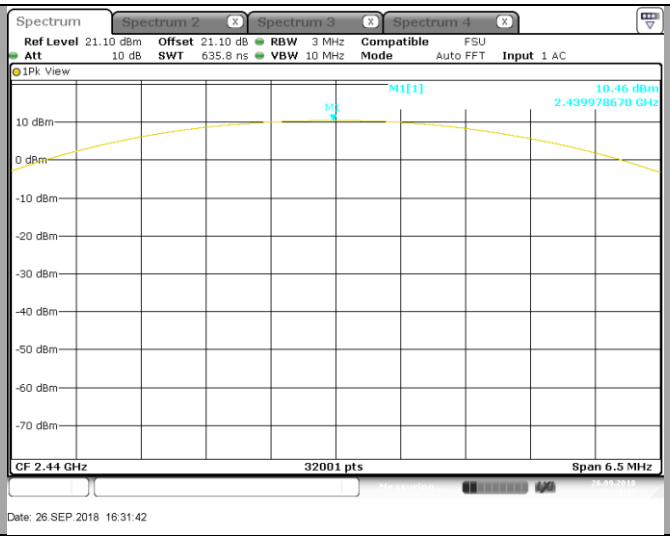
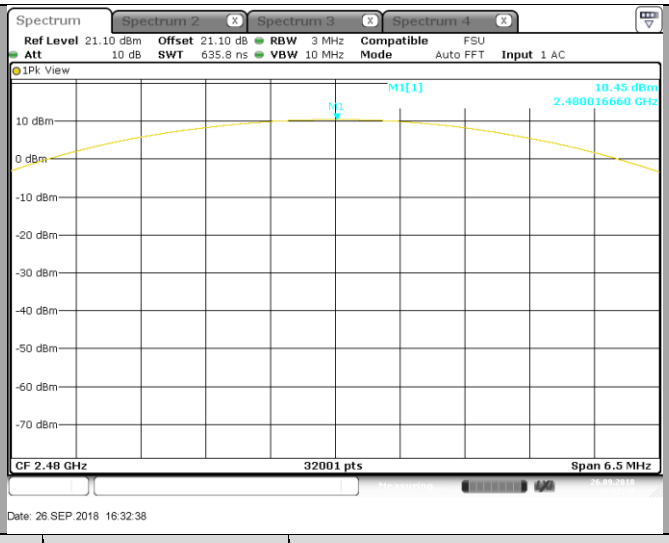
π/4 DQPSK	
Cmin	**Cnom**
	
Cmax	
	

Channel	Offset Cable + Att (dB)	Antenna Gain (dBi)	Maximum Conducted Power (dBm)	Limit (dBm)
Cmin	**21.10**	**3**	**10.32**	21dBm
Cnom	**21.10**	**3**	**10.26**	21dBm
Cmax	**21.10**	**3**	**10.10**	21dBm

π/4 DQPSK	
Cmin	**Cnom**
	
Cmax	
	

Channel	Offset Cable + Att (dB)	Antenna Gain (dBi)	Maximum Conducted Power (dBm)	Limit (dBm)
Cmin	**21.10**	**3**	**10.63**	21dBm
Cnom	**21.10**	**3**	**10.46**	21dBm
Cmax	**21.10**	**3**	**10.45**	21dBm

9.6. CONCLUSION

Maximum Conducted Output Power 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 15.247** limits.

10. UNWANTED EMISSIONS INTO NON-RESTRICTED FREQUENCY BANDS AT THE BAND EDGE

10.1. TEST CONDITIONS

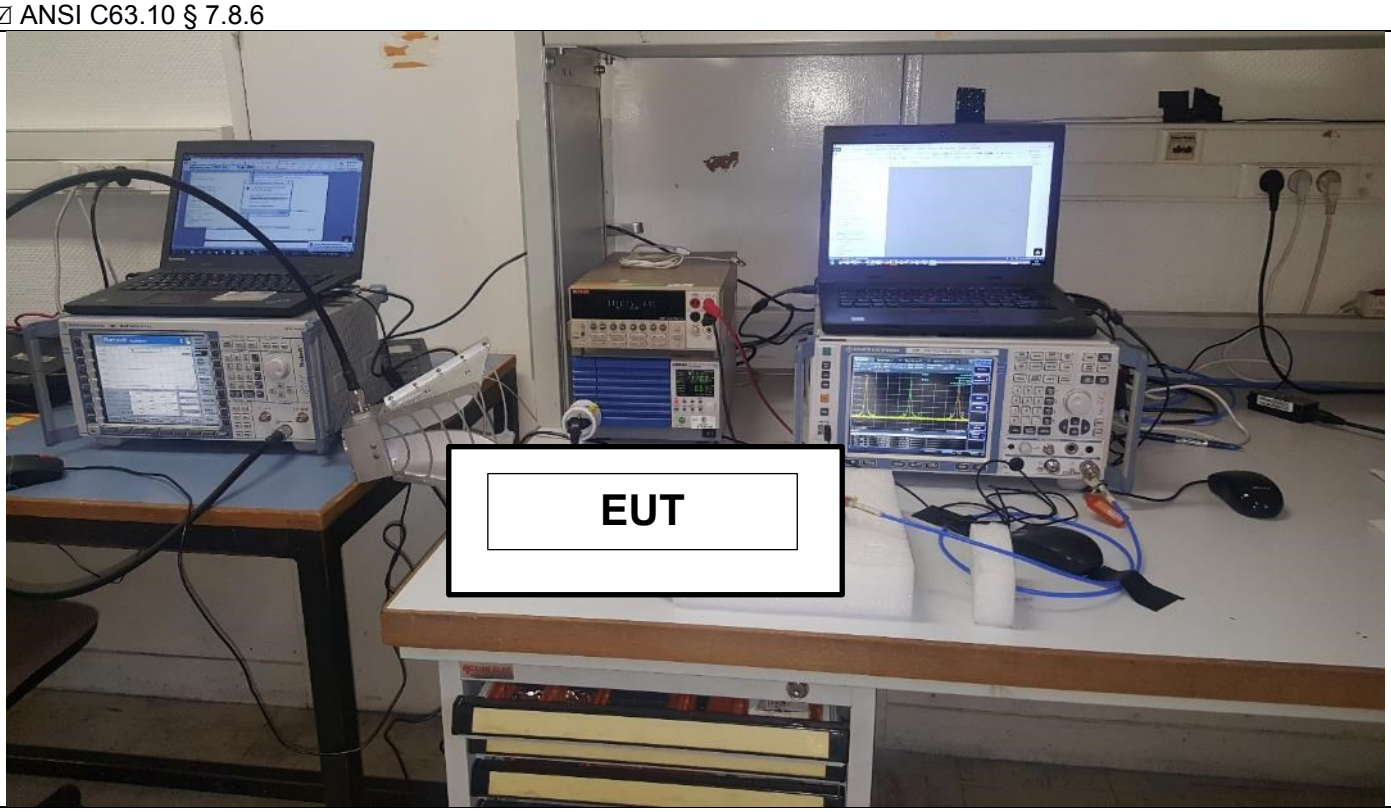
Test performed by : Armand MAHOUNGOU
Date of test : September 26, 2018 to September 27, 2018
Ambient temperature : 26°C & 24°C
Relative humidity : 44% & 47%

10.2. TEST SETUP

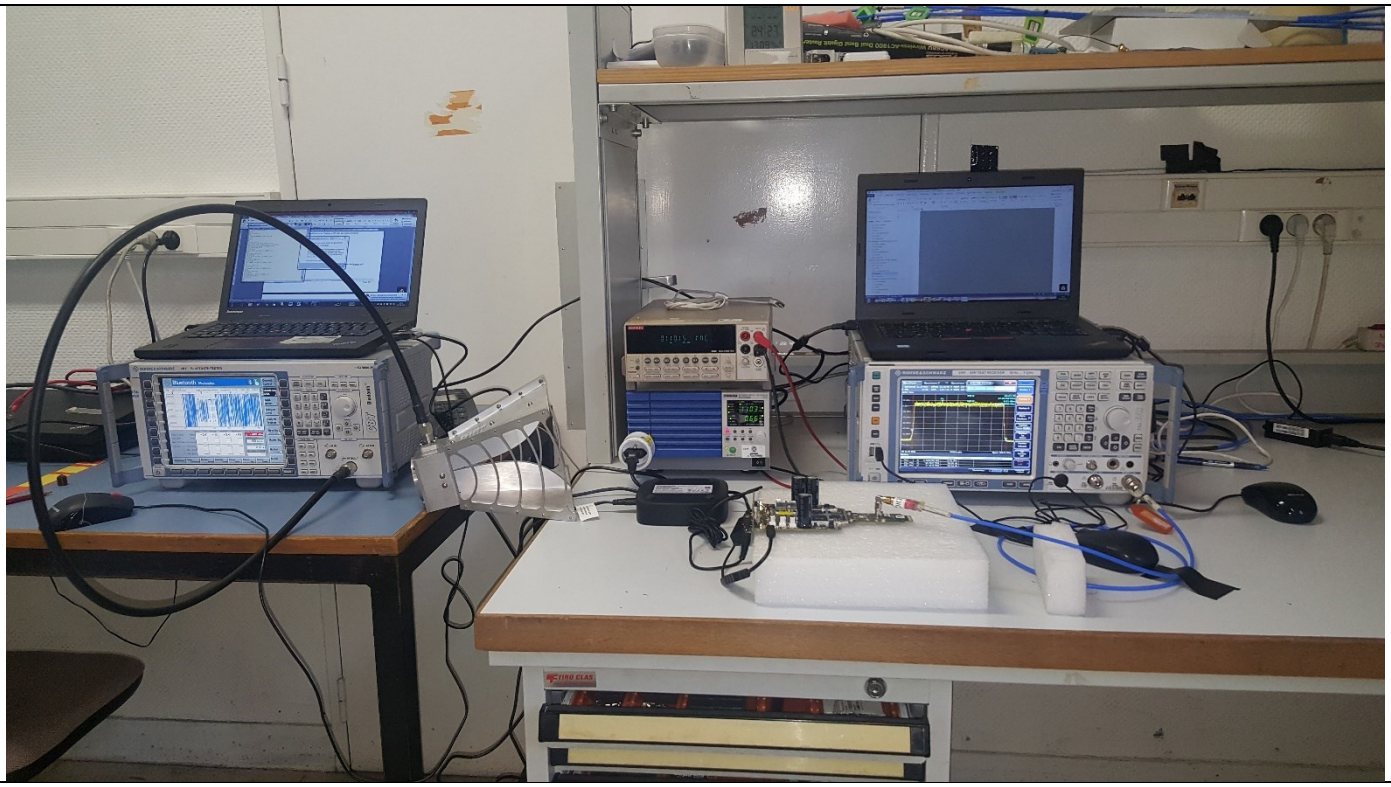
- The Equipment Under Test is installed:
☑ On a table
☐ In an anechoic chamber

- Measurement is performed with a spectrum analyzer in:
☑ Conducted Method
☐ Radiated Method

- Test Procedure:
☑ ANSI C63.10 § 7.8.6



Photograph for Unwanted Emission into non-restricted frequency bands at the band edge



Photograph for Unwanted Emission into non-restricted frequency bands at the band edge

10.3. LIMIT

All Spurious Emissions must be at least 20dB below the Fundamental Radiator Level at the Band Edge Edge “2400MHz & 2483,5MHz”

10.4. TEST EQUIPMENT LIST

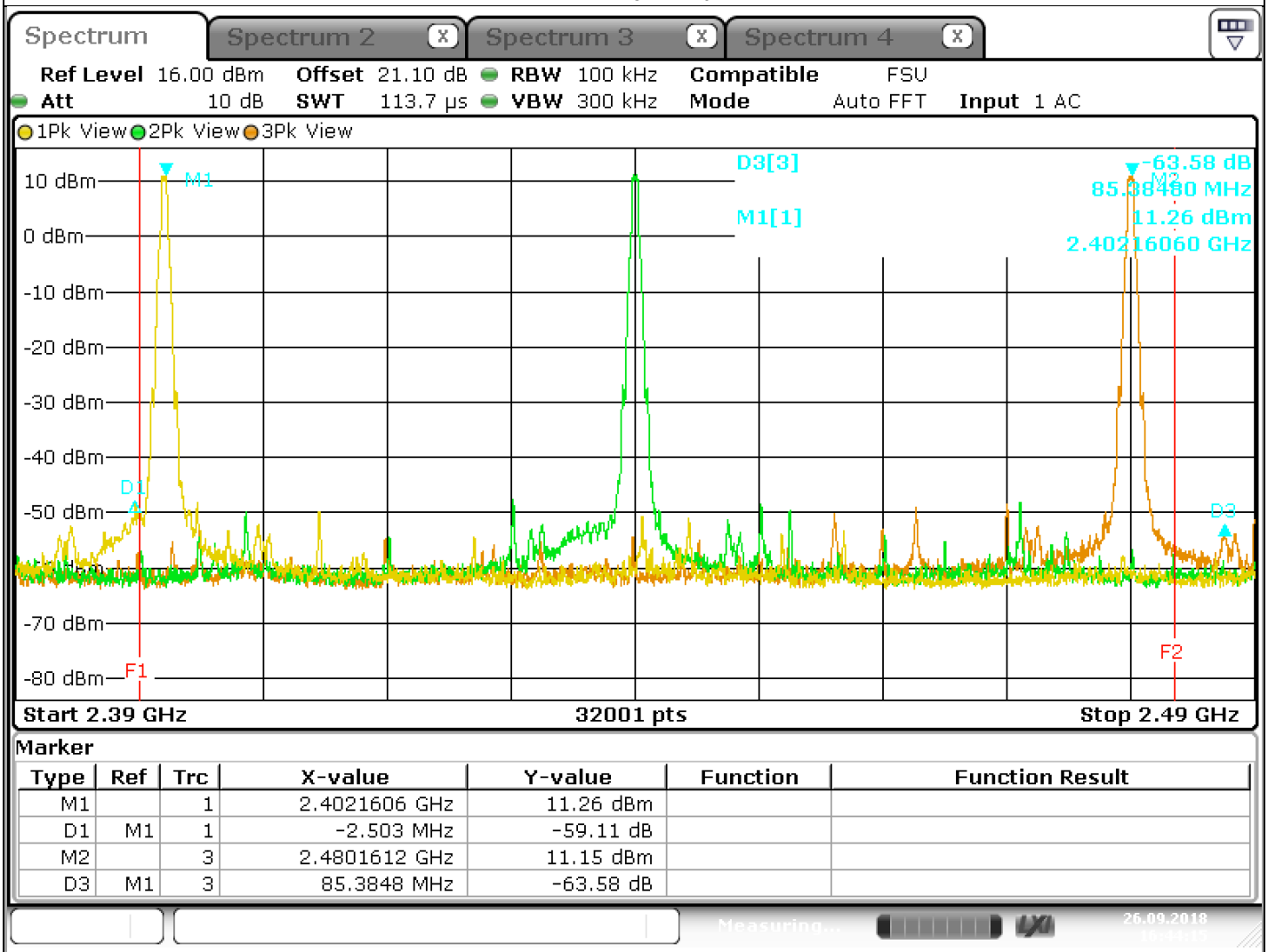
DESCRIPTION	MANUFACTURER	MODEL	N° LCIE	Cal_Date	Cal_Due
EMI receiver	ROHDE & SCHWARZ	ESR 7	A2642023	2016/11	2018/11
Multimeter	KEITHLEY	2000	A1242090	2017/05	2019/05
Power supply	KIKUSUI	PCR500M	A7040079	Cal with Multimeter	Cal with Multimeter
Cable	TELEDYNE	920-0202-048	A5329674	2017/10	2018/10

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

10.5. RESULTS

GFSK

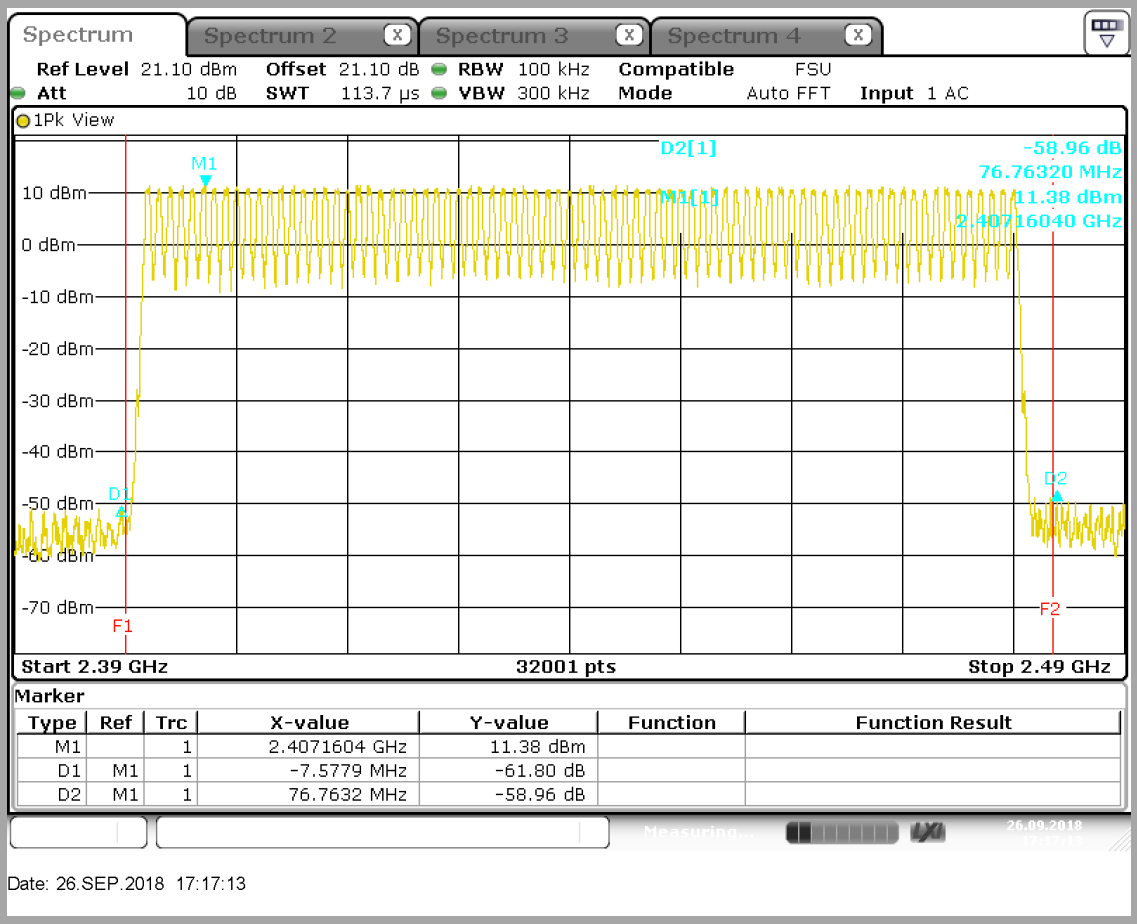
Cmin/Cnom/Cmax



Date: 26.SEP.2018 16:44:15

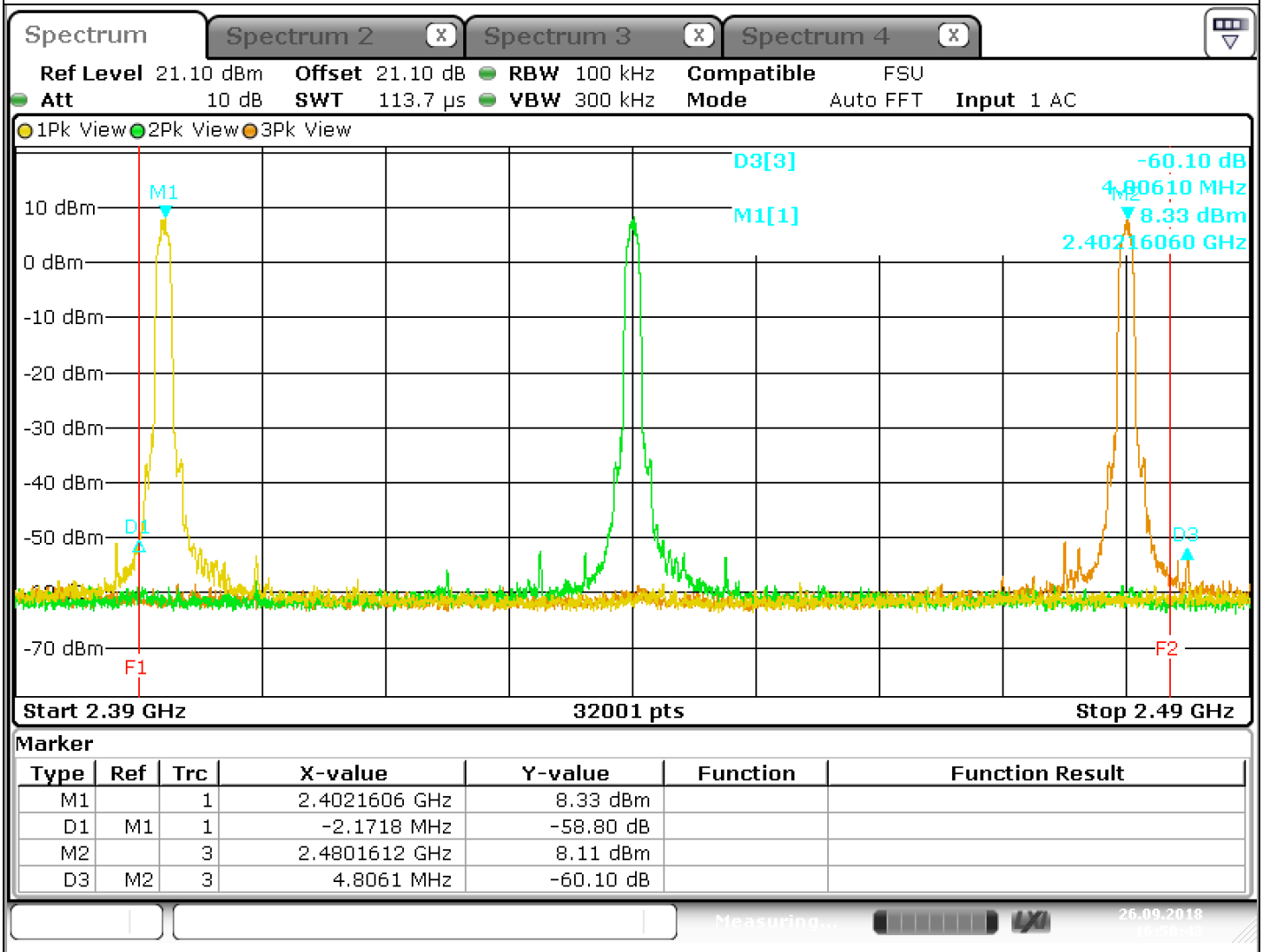
Frequency (MHz)	Level (dBc)	Limit (dBc)
2400	59.11	20
2483.5	63.58	20

GFSK
Call



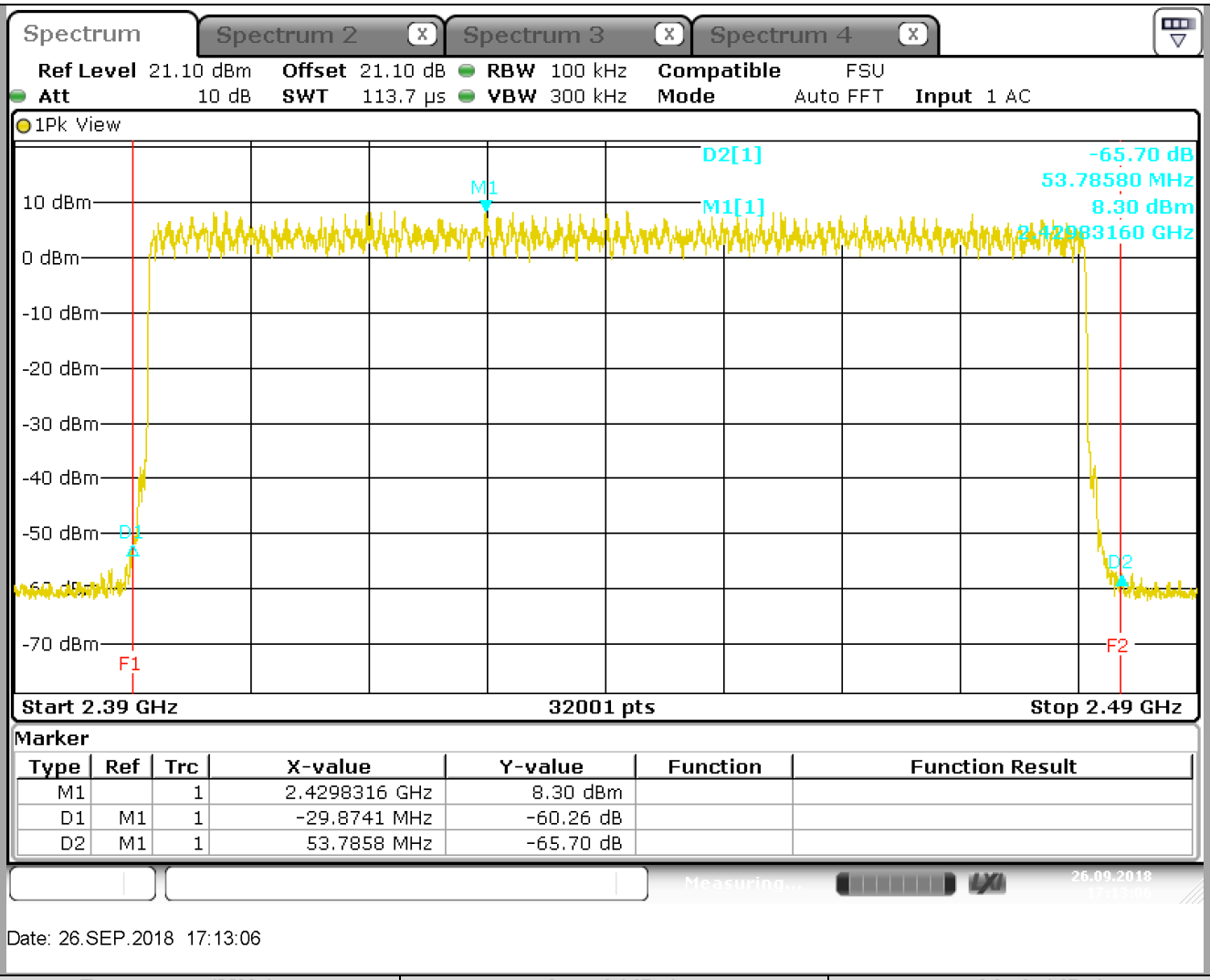
Frequency (MHz)	Level (dBc)	Limit (dBc)
2400	61.80	20
2483.5	58.96	20

π/4 DQPSK
Cmin/Cnom/Cmax



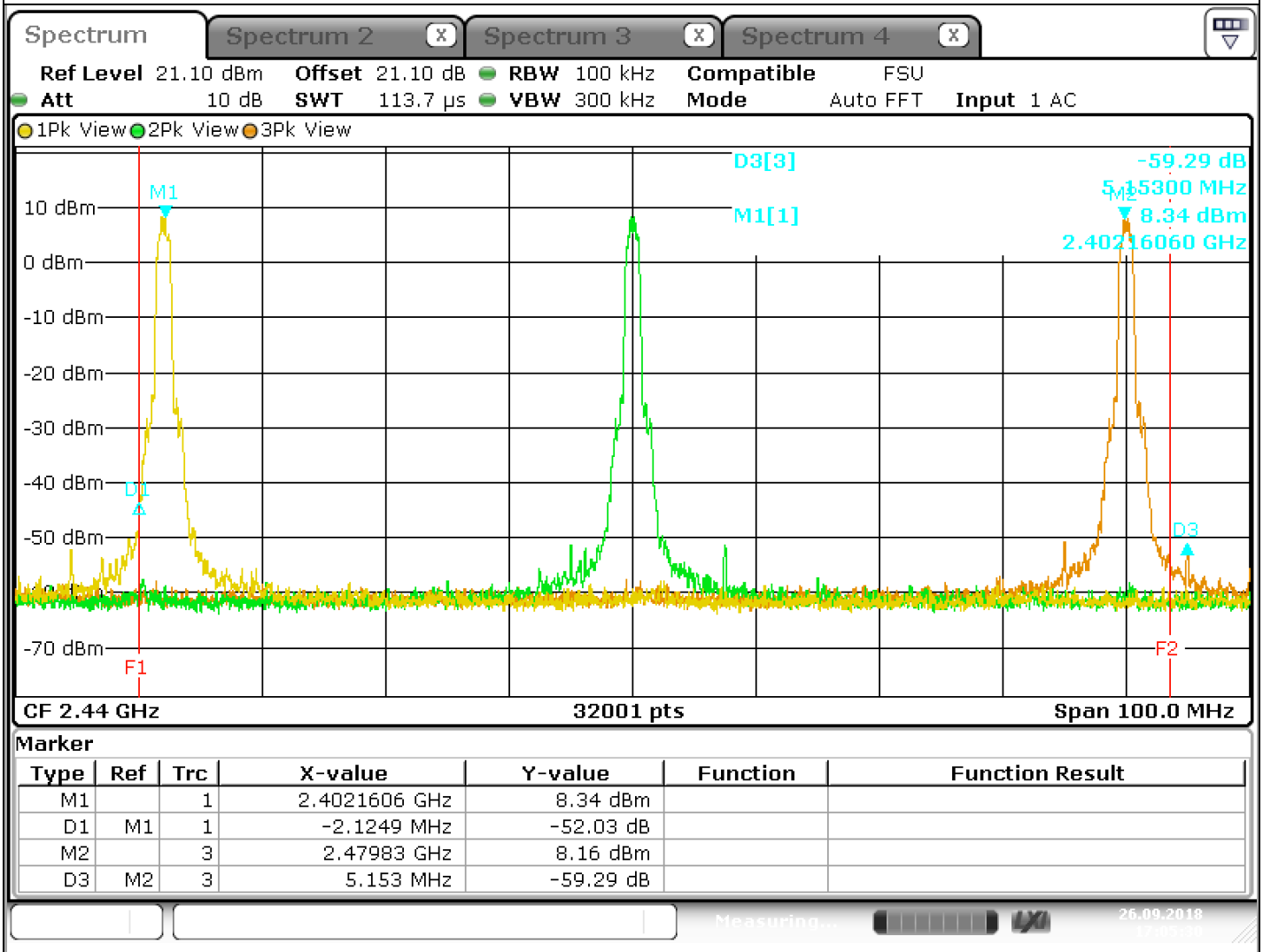
Frequency (MHz)	Level (dBc)	Limit (dBc)
2400	58.80	20
2483.5	60.10	20

π/4 DQPSK
Call



Frequency (MHz)	Level (dBc)	Limit (dBc)
2400	60.26	20
2483.5	65.70	20

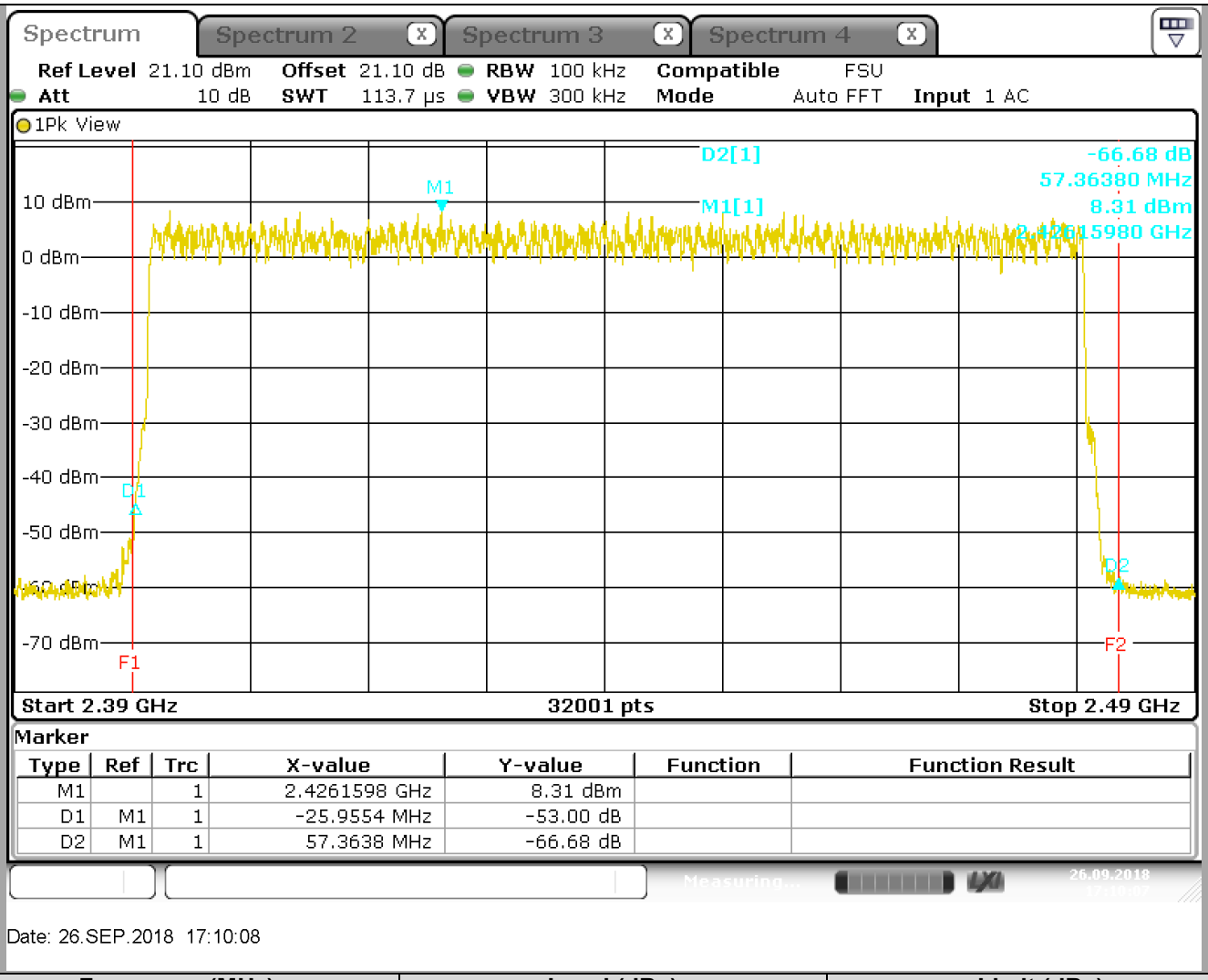
8DPSK
Cmin/Cnom/Cmax



Date: 26.SEP.2018 17:05:30

Frequency (MHz)	Level (dBc)	Limit (dBc)
2400	52.03	20
2483.5	59.29	20

8DPSK
Call



Frequency (MHz)	Level (dBc)	Limit (dBc)
2400	53.00	20
2483.5	66.68	20

10.6. CONCLUSION

Unwanted Emission into non-restricted frequency bands at the band edge 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 15.247** limits.

11. UNWANTED EMISSIONS INTO NON-RESTRICTED FREQUENCY BANDS

11.1. TEST CONDITIONS

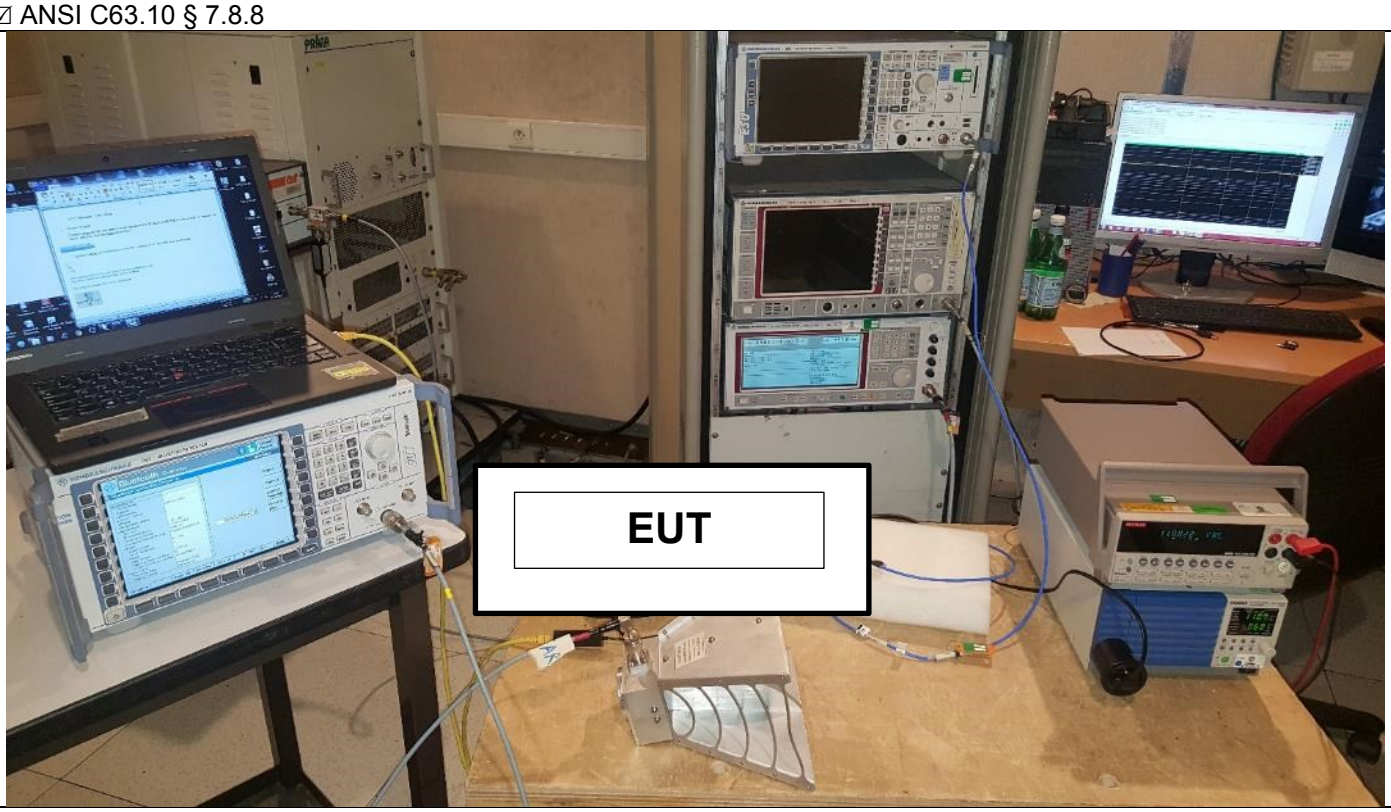
Test performed by : Armand MAHOUNGOU
Date of test : September 28, 2018 to October 1, 2018
Ambient temperature : 25°C & 27°C
Relative humidity : 43% & 46%

11.2. 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:
☑ ANSI C63.10 § 7.8.8



Photograph for Unwanted Emission into non-restricted frequency bands

11.3. LIMIT

All Spurious Emissions must be at least 20dB below the Fundamental Radiator Level

11.4. TEST EQUIPMENT LIST

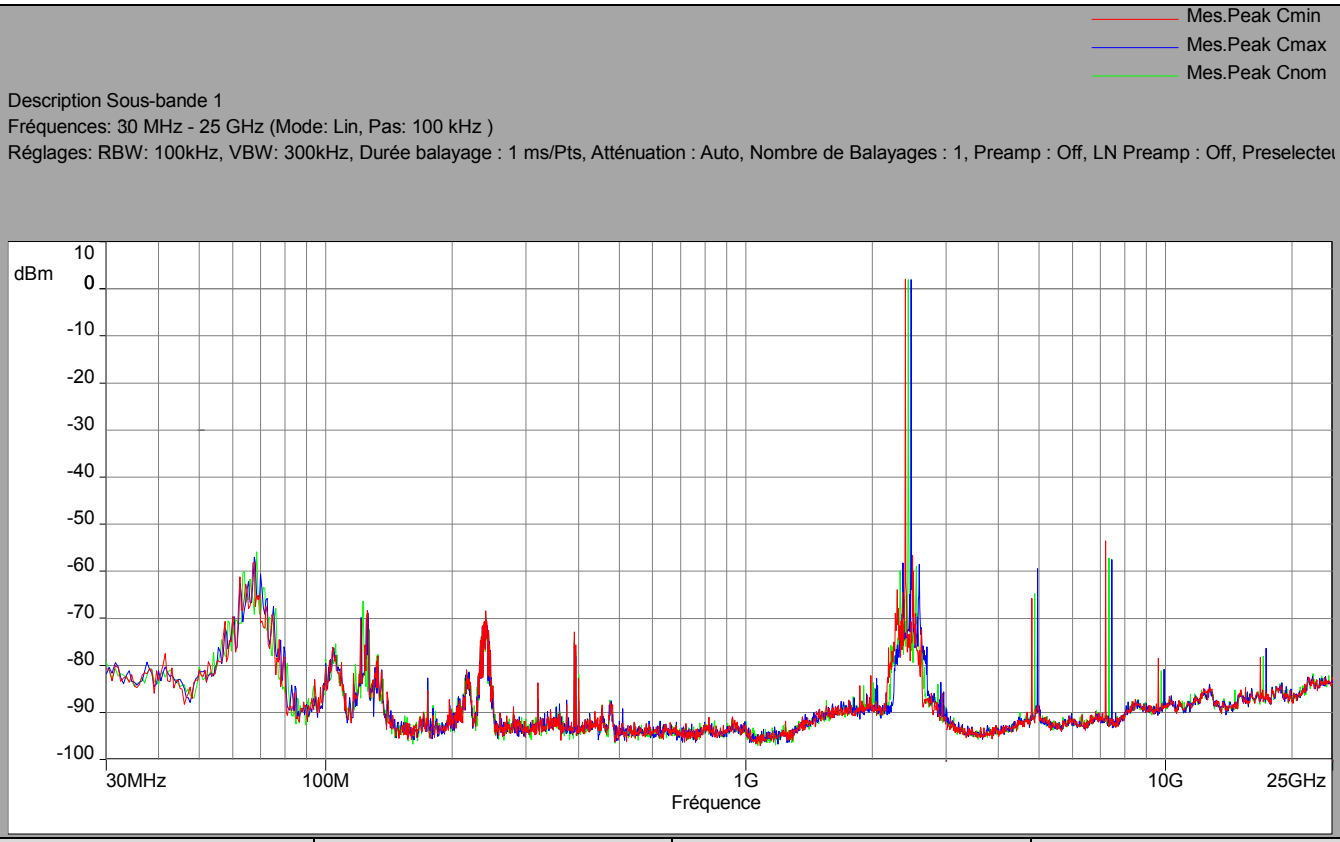
DESCRIPTION	MANUFACTURER	MODEL	N° LCIE	Cal_Date	Cal_Due
EMI receiver	ROHDE & SCHWARZ	ESI40 1088 740K40	A2642010	2018/07	2020/07
Multimeter	KEITHLEY	2000	A1242090	2017/05	2019/05
Power supply	KIKUSUI	PCR500M	A7040079	Cal with Multimeter	Cal with Multimeter
Cable	Télédyne	084-0555-2MTR	A5329758	2017/10	2018/10
Attenuator 3dB	WEINSCHEL	WA54-3-12	A7122223	2017/10	2018/10

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

11.5. RESULTS

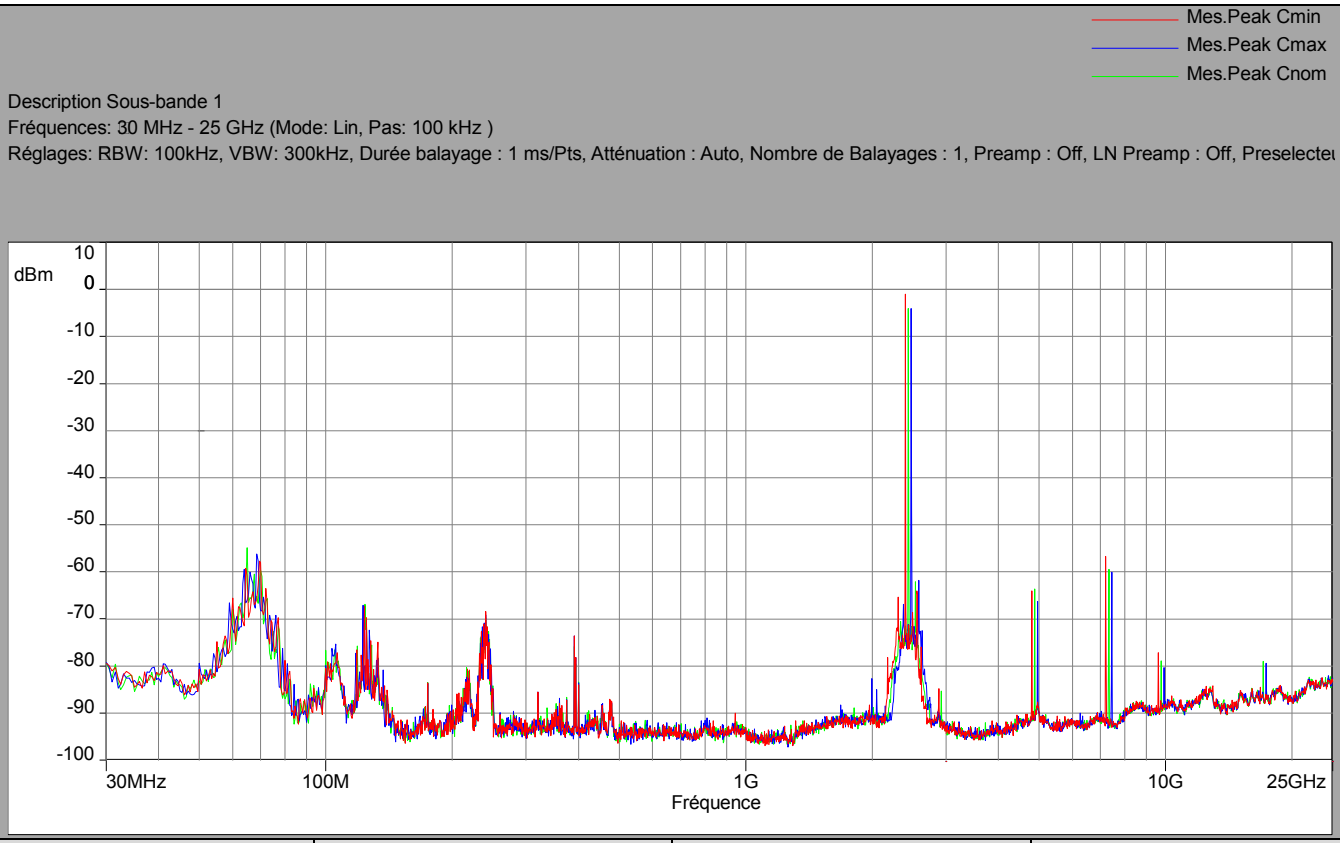
GFSK

Cmin/Cnom/Cmax



Frequency (MHz)	Level (dBm)	Level (dBc)	Limit (dBc)
2402	2.08		
4804	-65.75	63.67	20
7206	-53.56	51.48	20
9607	-78.48	76.40	20
16814	-78.28	76.20	20
2440	1.95		
4882	-64.74	62.79	20
7323	-57.24	55.29	20
9763	-81.11	79.16	20
17086	-78.14	76.19	20
2480	1.94		
4960	-49.45	47.51	20
7440	-57.52	55.58	20
9920	-80.81	78.87	20
17360	-76.32	74.38	20

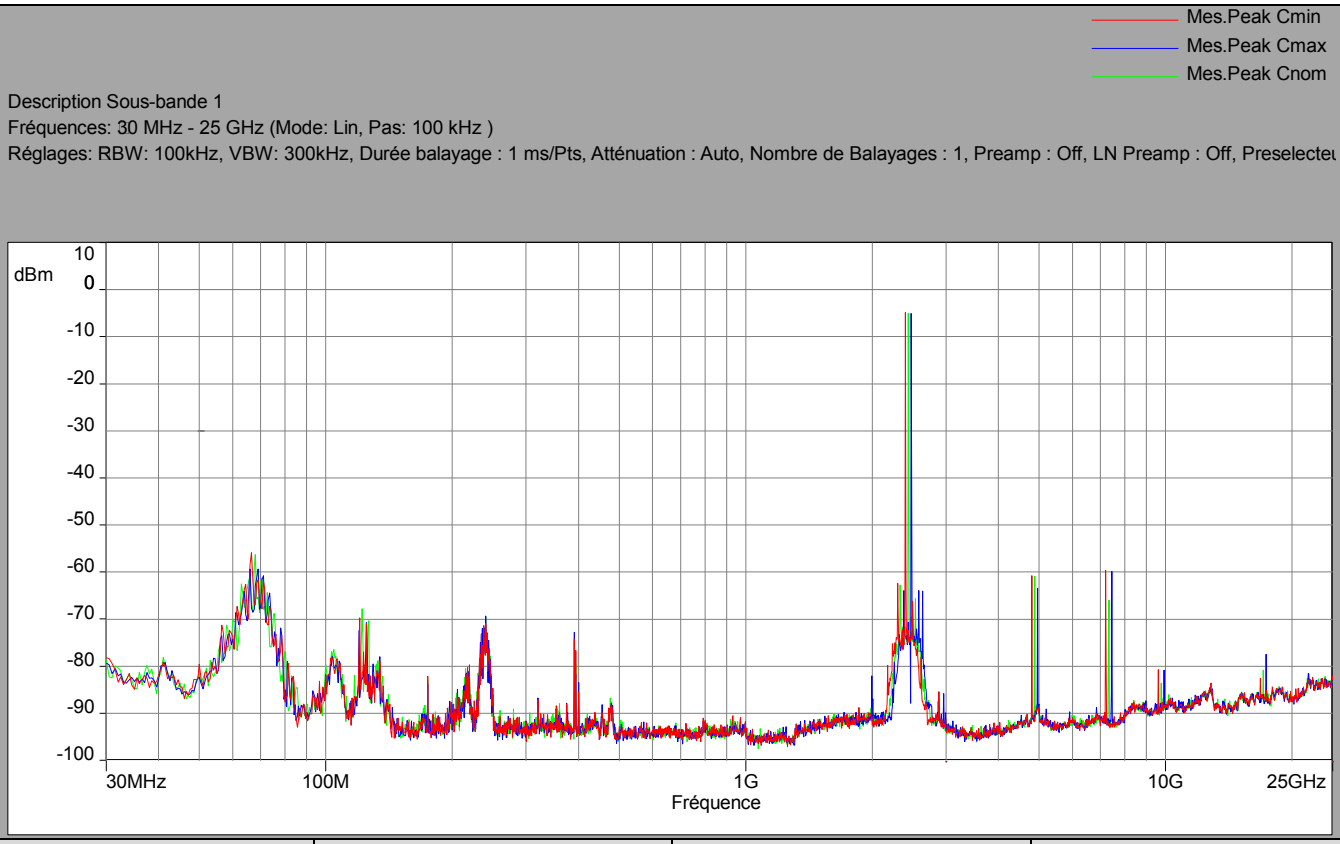
π/4 DQPSK
Cmin/Cnom/Cmax



Frequency (MHz)	Level (dBm)	Level (dBc)	Limit (dBc)
2402	-1.04		
4804	-64.02	62.98	20
7206	-56.74	55.70	20
9607	-77.45	76.41	20
16814	-84.50	83.46	20
2440	-4.02		
4882	-63.68	59.66	20
7323	-59.48	55.46	20
9763	-78.94	74.90	20
17086	-78.98	74.96	20
2480	-4.10		
4960	-66.31	62.21	20
7440	-60.40	56.30	20
9920	-80.36	76.26	20
17360	-79.46	75.36	20

8DPSK

Cmin/Cnom/Cmax



Frequency (MHz)	Level (dBm)	Level (dBc)	Limit (dBc)
2402	-4.84		
4804	-60.78	55.94	20
7206	-59.67	54.83	20
9607	-80.73	75.89	20
16814	-82.56	77.72	20
2440	-5.06		
4882	-60.88	55.82	20
7323	-65.94	60.88	20
9763	-83.56	78.50	20
17086	-80.80	75.74	20
2480	-5.08		
4960	-63.46	58.38	20
7440	-59.90	54.82	20
9920	-80.83	75.75	20
17360	-77.48	72.40	20

11.6. CONCLUSION

Unwanted Emission into non-restricted frequency bands 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 15.247** limits.

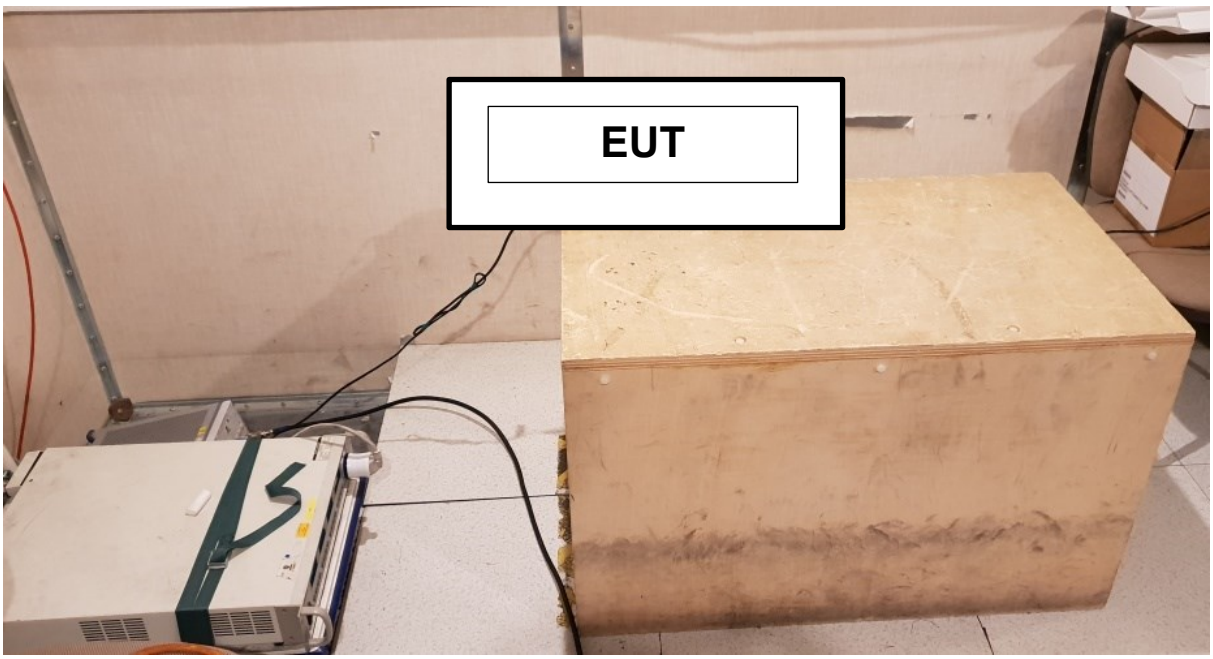
12. AC POWER LINE CONDUCTED EMISSIONS

12.1. TEST CONDITIONS

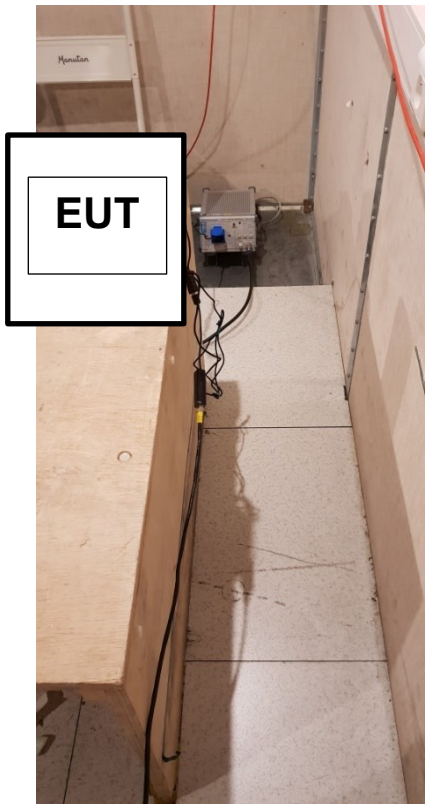
Test performed by	: Armand MAHOUNGOU
Date of test	: September 24, 2018
Ambient temperature	: 24 °C
Relative humidity	: 45 %

12.2. TEST SETUP

The product has been tested according to ANSI C63.10 (2013) method. The EUT is placed on the ground reference plane, at 80cm from the LISN. The distance between the EUT and the vertical ground plane is 40cm. Auxiliaries are powered by another LISN. The cable has been shorted to 1meter length. The EUT is powered through the LISN. Measurement is made with a receiver in peak mode. This was followed by a Quasi-Peak, i.e. CISPR measurement for any strong signal. If the average limit is met when using a Quasi-Peak detector, the EUT shall be deemed to meet both limits and measurement with the average detector is unnecessary. The LISN (measure) is 50Ω / 50µH. Interconnecting cables and equipment's were moved to position that maximized emission.



Photograph for AC Power Line Conducted Emissions (Front view)



Photograph for AC Power Line Conducted Emissions (Rear view)

12.3. LIMIT

Quasi-Peak
0,15kHz to 0,5MHz: 66dBµV to 56dBµV*
0,5MHz to 5MHz: 56dBµV
5MHz to 30MHz: 60dBµV

Average
0,15kHz to 0,5MHz: 56dBµV to 46dBµV*
0,5MHz to 5MHz: 46dBµV
5MHz to 30MHz: 50dBµV

*Decreases with the logarithm of the frequency

12.4. TEST EQUIPMENT LIST

Description	Constructor	Model	N°	Cal. Date	Cal. Due
EMI Receiver	ROHDE & SCHWARZ	ESU26	A2642018	2016/10	2018/10
RSIL	ROHDE & SCHWARZ	ENV215	C2320162	2018/01	2019/01
AC power supply	ADAPTIVE POWER SYSTEM	FC210	A7360017	-	-
Cable	-	-	A5329712	2018/03	2019/03

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

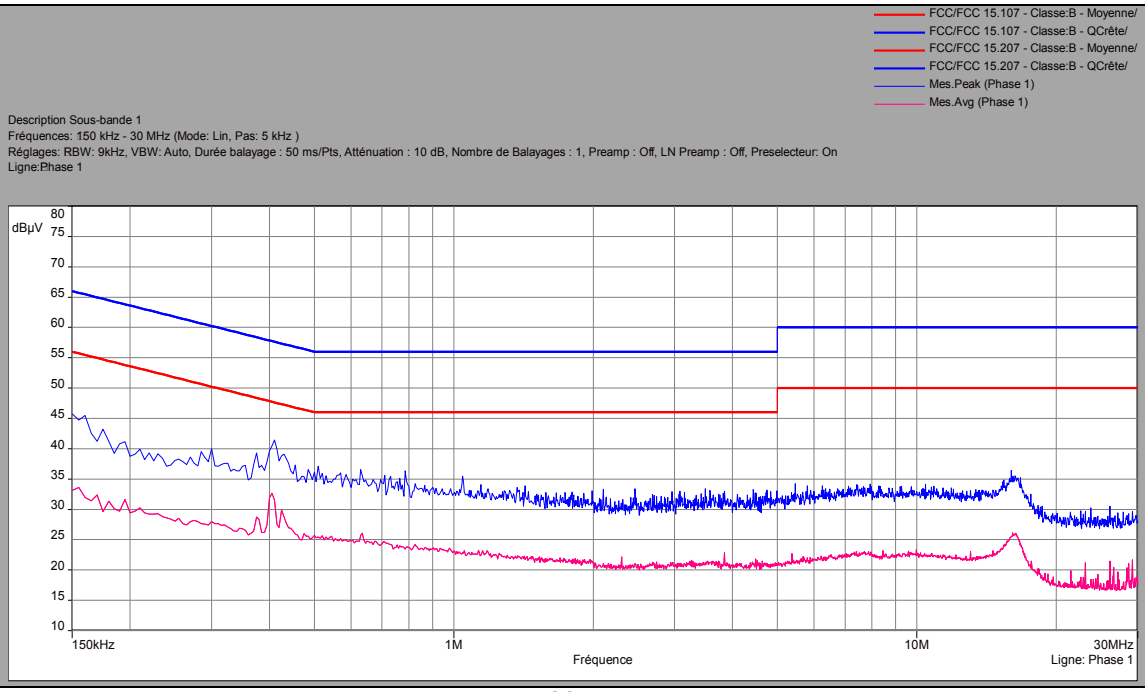
12.5. DIVERGENCE, ADDITION OR SUPPRESSION ON THE TEST SPECIFICATION

☑ None ☐ Divergence:

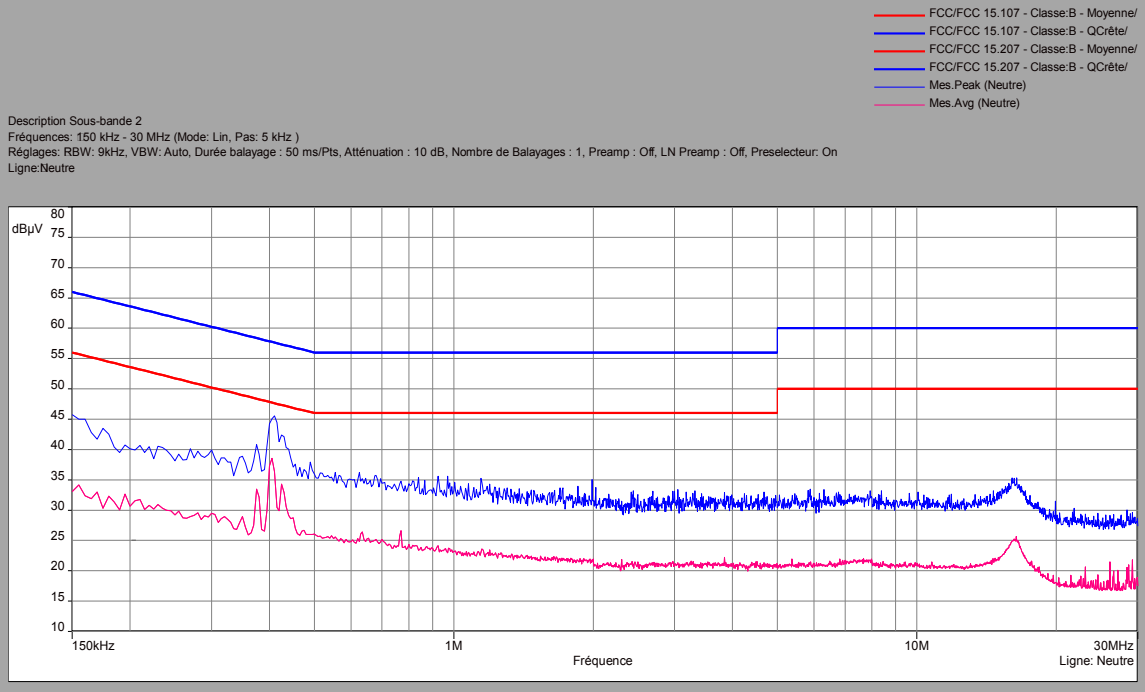
12.6. RESULTS

120V / 60Hz

Phase



Line

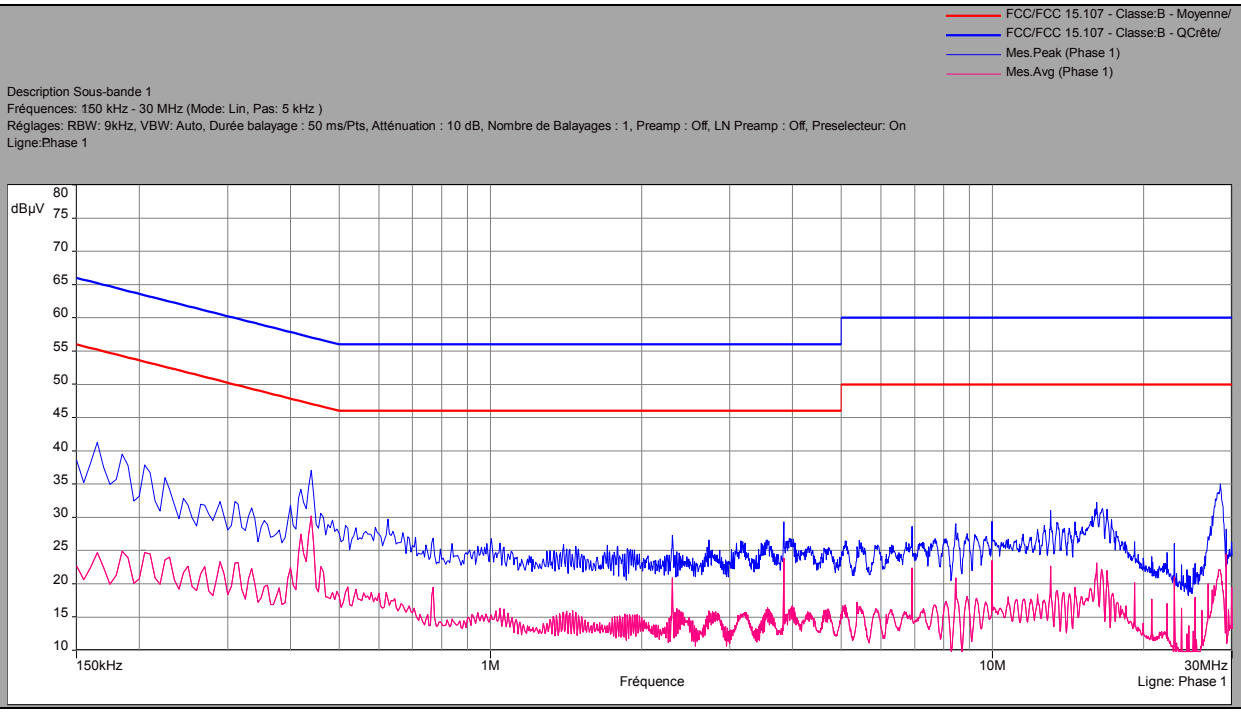


Phase Line 120V / 60Hz							
Frequency (MHz)	**Peak Level (dBµV)**	**Quasi-Peak Level (dBµV)**	**Quasi-Peak Limit (dBµV)**	**Margin Quasi-Peak (dBµV)**	**Average Level (dB)**	**Average Limit (dBµV)**	**Margin Average (dB)**
0.41	41.43	-	57.65	16.22	32.68	47.65	14.97
2.305	33.38	-	56	22.62	22.17	46	23.83
3.840	33.26	-	56	22.74	22.86	46	23.14
23.13	29.75	-	60	30.25	21.20	50	28.8
26.11	30.49	-	60	29.51	21.44	50	28.56
29.23	29.65	-	60	30.35	21.64	50	28.36

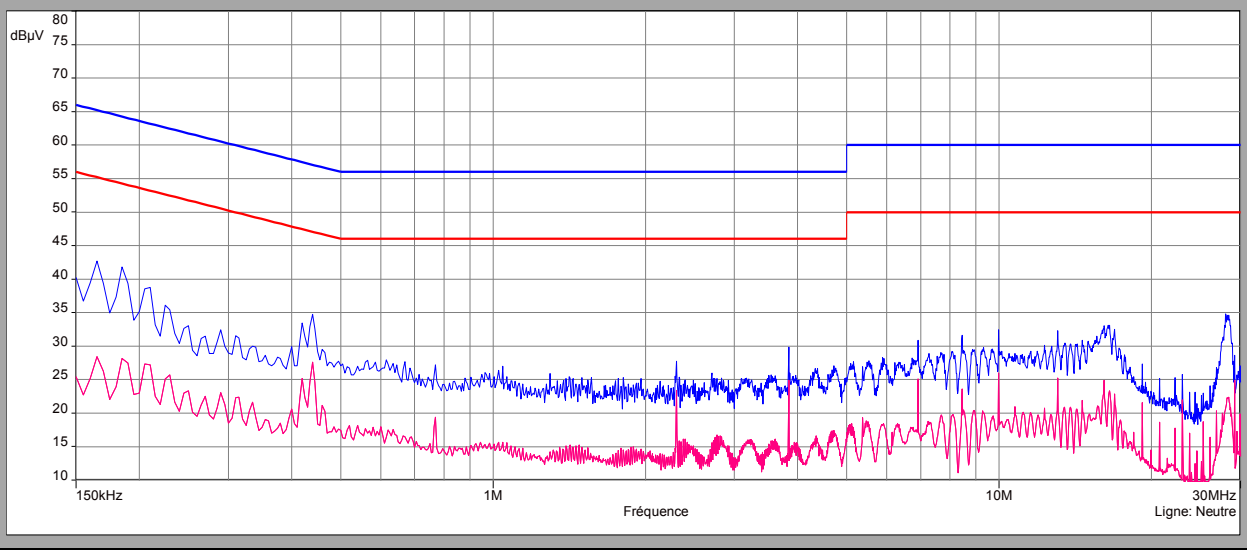
Neutral Line 120V / 60Hz							
Frequency (MHz)	**Peak Level (dBµV)**	**Quasi-Peak Level (dBµV)**	**Quasi-Peak Limit (dBµV)**	**Margin Quasi-Peak (dBµV)**	**Average Level (dB)**	**Average Limit (dBµV)**	**Margin Average (dB)**
0.41	45.56	-	57.65	12.09	38.59	47.65	9.06
0.77	34.78	-	56	21.22	26.64	46	16.36
3.840	32.90	-	56	23.1	22.20	46	23.8
23.13	30.34	-	60	29.66	20.67	50	29.33
26.11	29.20	-	60	30.8	21.46	50	28.54
29.23	30.3	-	60	29.7	21.80	50	28.2

240V / 50Hz

Phase



Line



Phase Line 240V / 50Hz							
Frequency (MHz)	**Peak Level (dBµV)**	**Quasi-Peak Level (dBµV)**	**Quasi-Peak Limit (dBµV)**	**Margin Quasi-Peak (dBµV)**	**Average Level (dBµV)**	**Average Limit (dBµV)**	**Margin Average (dBµV)**
0.44	37.06	-	57.06	20.0	30.17	47.06	16.89
2.305	27.27	-	56	28.73	20.89	46	25.11
3.840	29.32	-	56	26.68	23.89	46	22.11
13.05	31.02	-	60	28.98	22.62	50	27.38
16.13	27.80	-	60	20.80	23.12	50	26.88
28.22	35.02	-	60	24.98	22.11	50	27.89

Neutral Line 240V / 50Hz							
Frequency (MHz)	**Peak Level (dBµV)**	**Quasi-Peak Level (dBµV)**	**Quasi-Peak Limit (dBµV)**	**Margin Quasi-Peak (dBµV)**	**Average Level (dBµV)**	**Average Limit (dBµV)**	**Margin Average (dBµV)**
0.44	34.74	-	57.06	22.32	27.59	47.06	19.47
2.305	27.75	-	56	28.25	23.37	46	22.63
3.840	29.88	-	56	26.12	24.91	46	21.09
13.05	32.30	-	60	27.70	25.23	50	24.77
16.13	33.12	-	60	26.88	24.86	50	25.14
28.22	34.82	-	60	25.18	22.33	50	27.67

12.7. CONCLUSION

Ac Power Line Conducted Emission 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 15.247 limits.

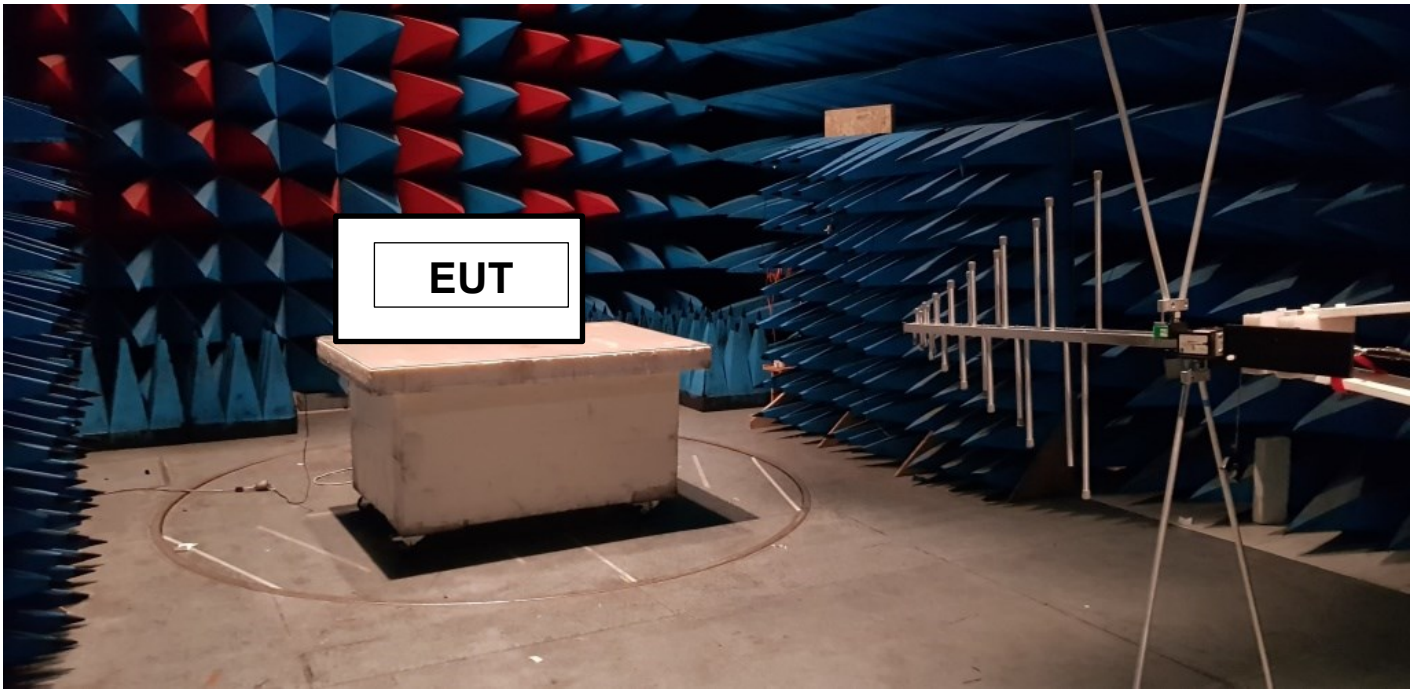
13. UNWANTED EMISSIONS IN RESTRICTED FREQUENCY BANDS

13.1. TEST CONDITIONS

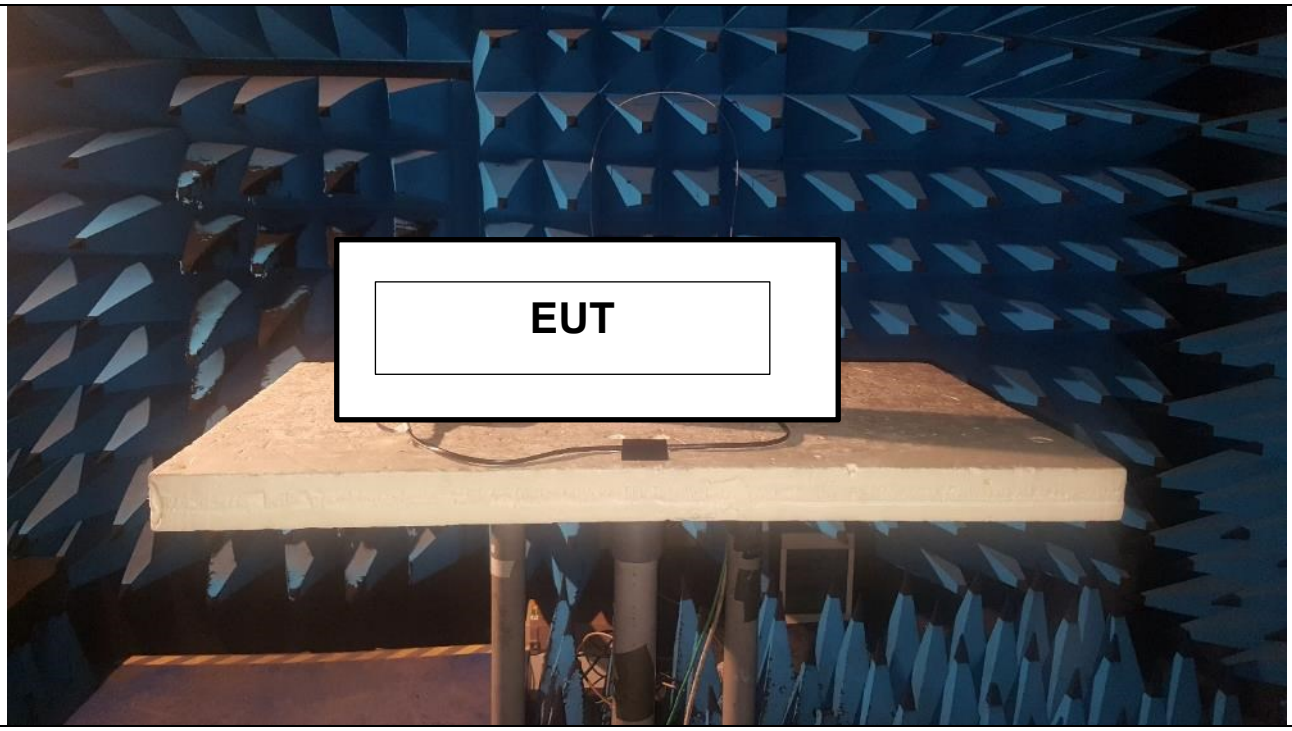
Test performed by : Armand MAHOUNGOU
Date of test : September 14, 2018 to October 2, 2018
Ambient temperature : 25°C & 27°C
Relative humidity : 47% & 44%

13.2. TEST SETUP

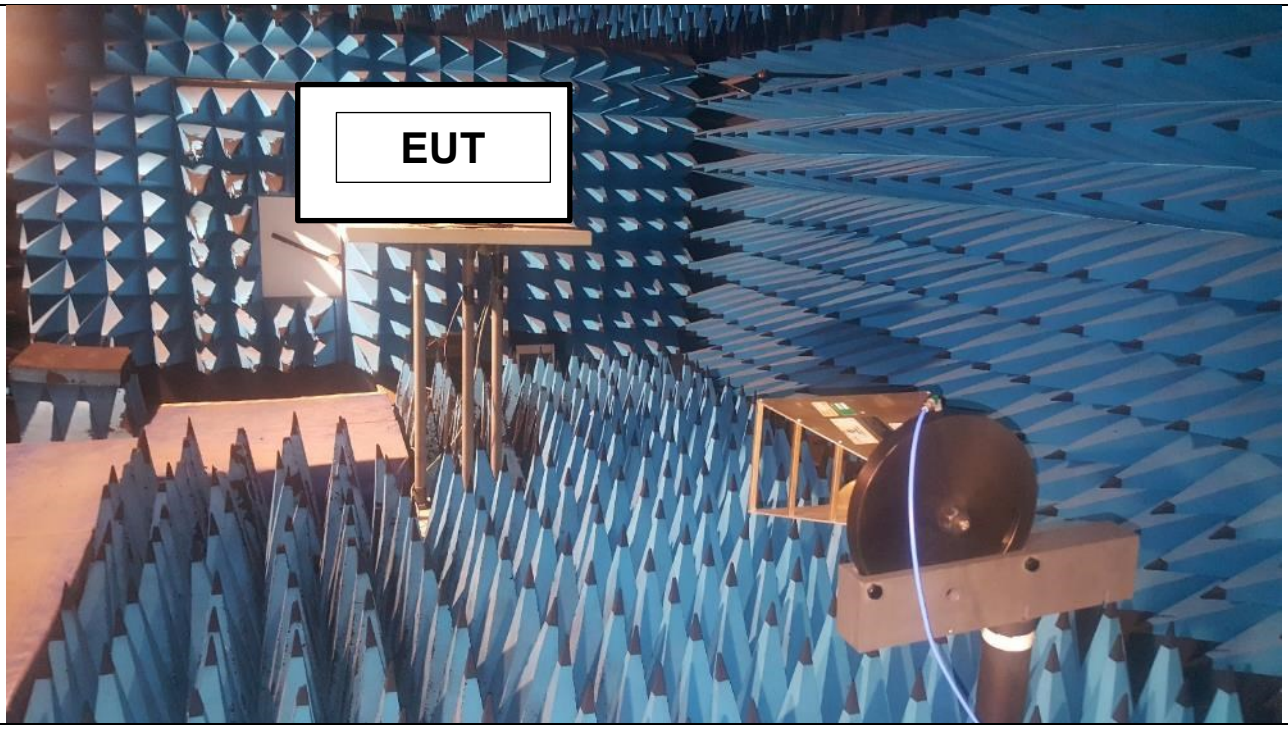
The product has been tested according to ANSI C63.10 (2013).
Test is performed in parallel, perpendicular and ground parallel axis with a loop antenna below 30MHz. Measurement bandwidth was 200Hz below 150kHz and 9kHz between 150kHz & 30MHz. The level has been maximised by the turntable rotation of 360 degrees range on the 3 axis of EUT. Antenna height was 1m. The EUT is placed **in a semi-anechoic chamber**. Distance between measuring antenna and the EUT is **3m**.
Test is performed in horizontal (H) and vertical (V) polarization with **bilog** between 30MHz & 1GHz and with a horn antenna above 1GHz. Measurement bandwidth was 120kHz below 1GHz and 1MHz above 1GHz. The level has been maximised by the turntable rotation of 360 degrees range on the 3 axis of EUT. Antenna height search was performed from 1 to 4m. The EUT is place at 1.5m high above 1GHz and at 0.8m high under 1GHz. The EUT is placed **in a full anechoic chamber** above 1GHz and **in a semi-anechoic chamber** from 30MHz to 1GHz. Distance between measuring antenna and the EUT is **3m**.



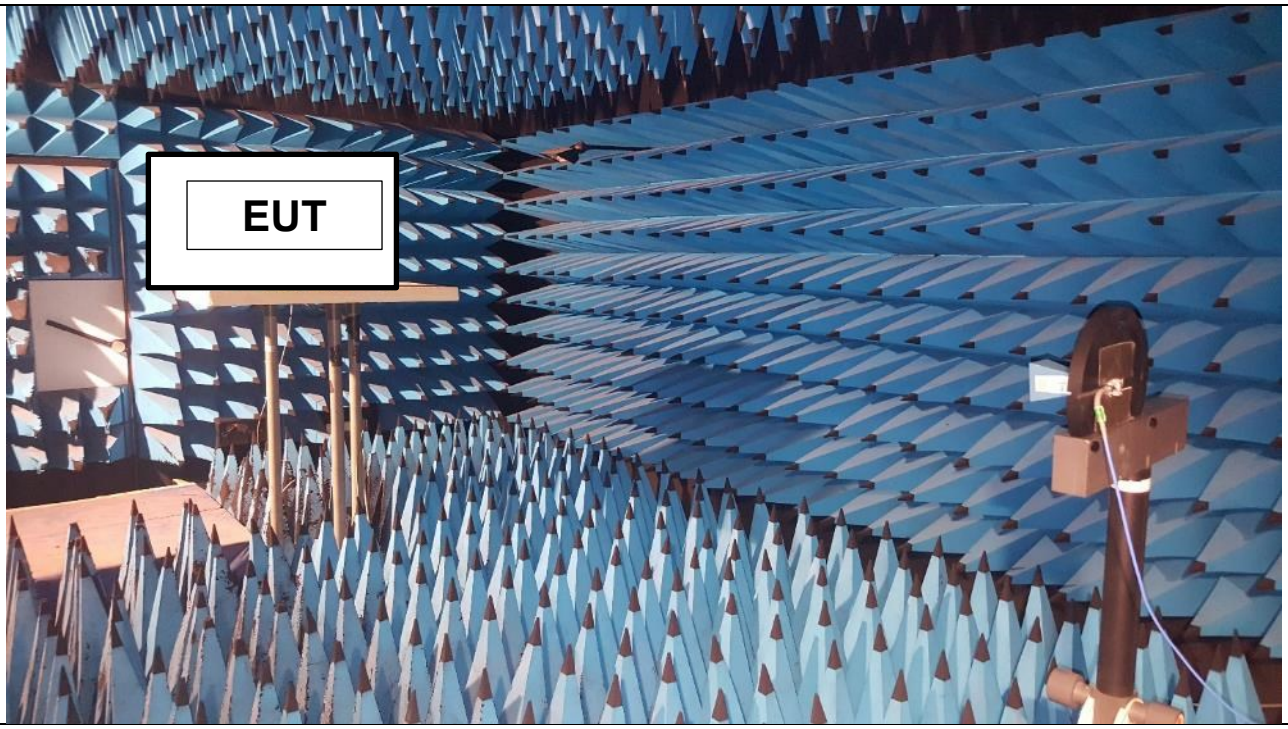
Photograph for Unwanted Emission in restricted frequency bands



Photograph for Unwanted Emission in restricted frequency bands



Photograph for Unwanted Emission in restricted frequency bands



Photograph for Unwanted Emission in restricted frequency bands

13.3. LIMIT

Limit at 3m:

9kHz to 0,490MHz: 2400/F(kHz)µV/m (300m) or 20log(2400/F(kHz))dBµV/m (3m) QPeak
0,490MHz to 1.705MHz: 240000/F(kHz)µV/m (30m) or 20log(240000/F(kHz))dBµV/m (3m) QPeak
1.705MHz to 30MHz: 30µV/m (30m) or dBµV/m (3m) QPeak
30MHz to 88MHz: 40dBµV/m QPeak
88MHz to 216MHz: 43,5dBµV/m QPeak
216MHz to 960MHz: 46dBµV/m QPeak
960MHz to 1000MHz: 54dBµV/m QPeak
Above 1000MHz: 74dBµV/m Peak
54dBµV/m Average

Limit at 10m:

30MHz to 88MHz: 29.5dBµV/m QPeak
88MHz to 216MHz: 33dBµV/m QPeak
216MHz to 960MHz: 35.5dBµV/m QPeak
960MHz to 1000MHz: 43.5dBµV/m QPeak
Above 1000MHz: 63.5BµV/m Peak
43.5BµV/m Average

13.4. TEST EQUIPMENT LIST

DESCRIPTION	MANUFACTURER	MODEL	N° LCIE	Cal_Date	Cal_Due
EMI receiver	ROHDE & SCHWARZ	ESI40 1088 740K40	A2642010	2018/07	2019/07
Full anachoic chamber	SIEPEL	-	D3044019	2014/10	2018/10
Preamplifier	LCIE	LCIE-ALB-001	A7080073	2016/10	2018/10
Horn antenna	AH SYSTEMS	SAS 571	C2042041	2017/09	2019/09
Horn antenna (18-26,5GHz)	PASTERNACK	PE9852/2F-20	C2042048	2017/12	2019/12
Cable	Télédyne	084-0505-1MTR	A5329757	2018/03	2019/03
Cable	Télédyne	084-0555-3MTR	A5329760	2018/03	2019/03
Cable	Télédyne	084-555-1.5MTR	A5329759	2018/03	2019/03
Multimeter	KEITHLEY	2000	A1242090	2017/05	2019/05
Power supply	KIKUSUI	PCR500M	A7040079	Cal with Multimeter	Cal with Multimeter
Bilog antenna	SCHWARZBECK	VULB9160	C2040150	2018/04	2019/04
Cable	-	-	A5329711	2018/06	2019/06
Horn antenna	A-infoMW	Broadband 1-18	C2042056	2016/07	2018/07
SEMI ANECHOIC CHAMBER	SIEPEL	ANE	D3044008	2014/10	2018/10
EMI Receiver	ROHDE & SCHWARZ	ESU26	A2642018	2016/10	2018/10
Preamplifier	LCIE	-	A7086012	2018/03	2019/03
Loop antenna	SCHWARZBECK	FMZB1513	C2040209	2018/03	2020/03
Rejector filter 2,4GHz	-	2.45GHz	A7484048	2017/11	2018/11

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

13.5. DIVERGENCE, ADDITION OR SUPPRESSION ON THE TEST SPECIFICATION

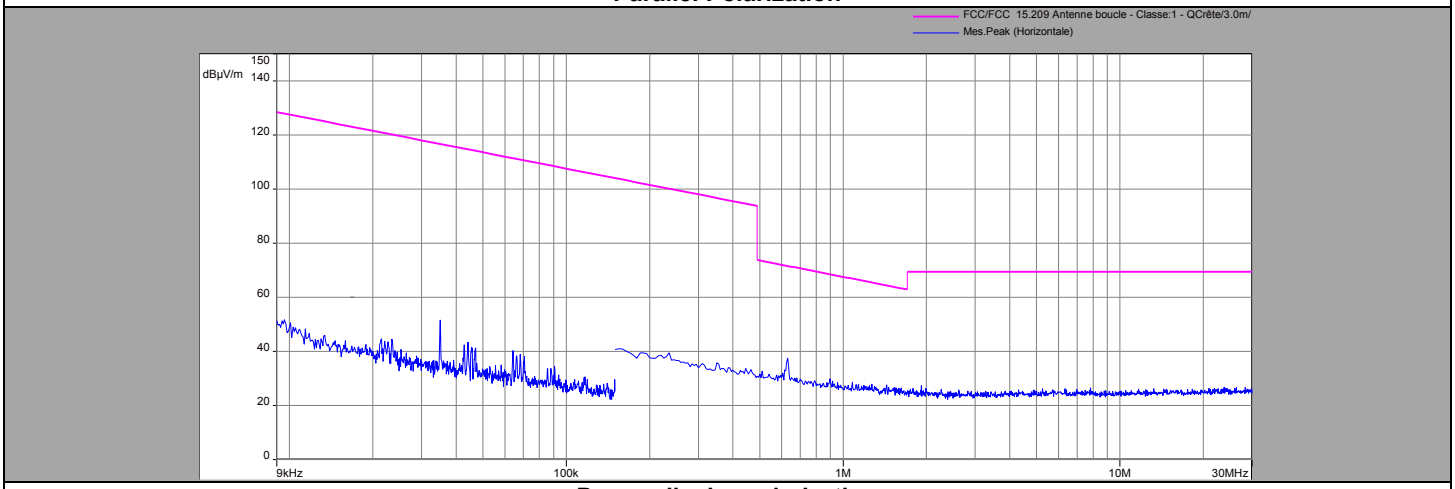
☑ None ☐ Divergence:

13.6. RESULTS

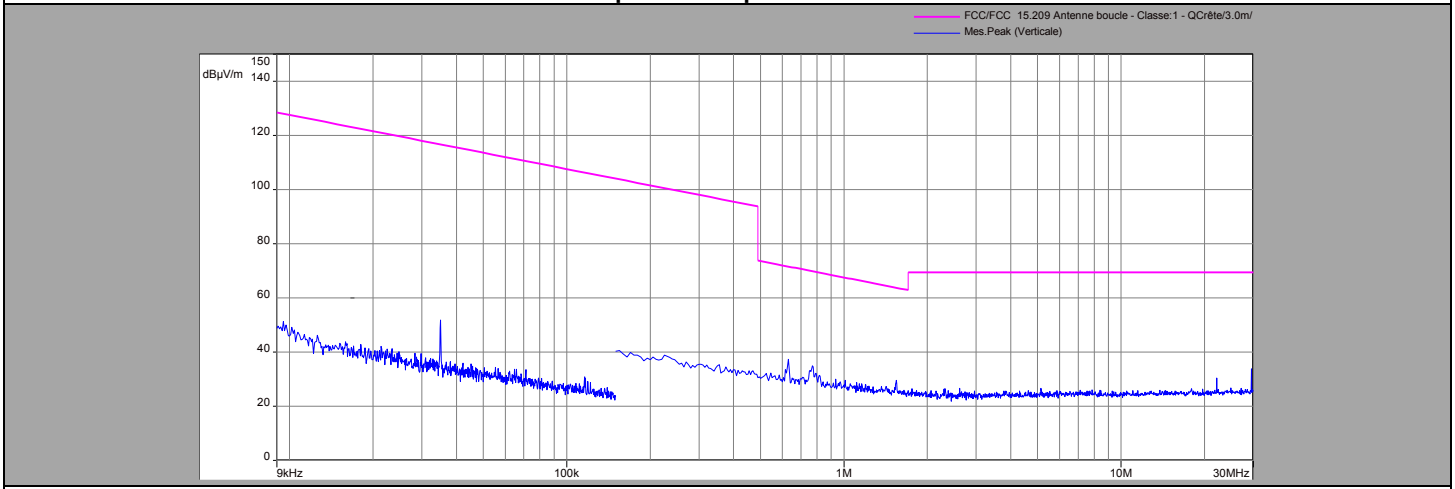
9kHz – 30 MHz

Cmin

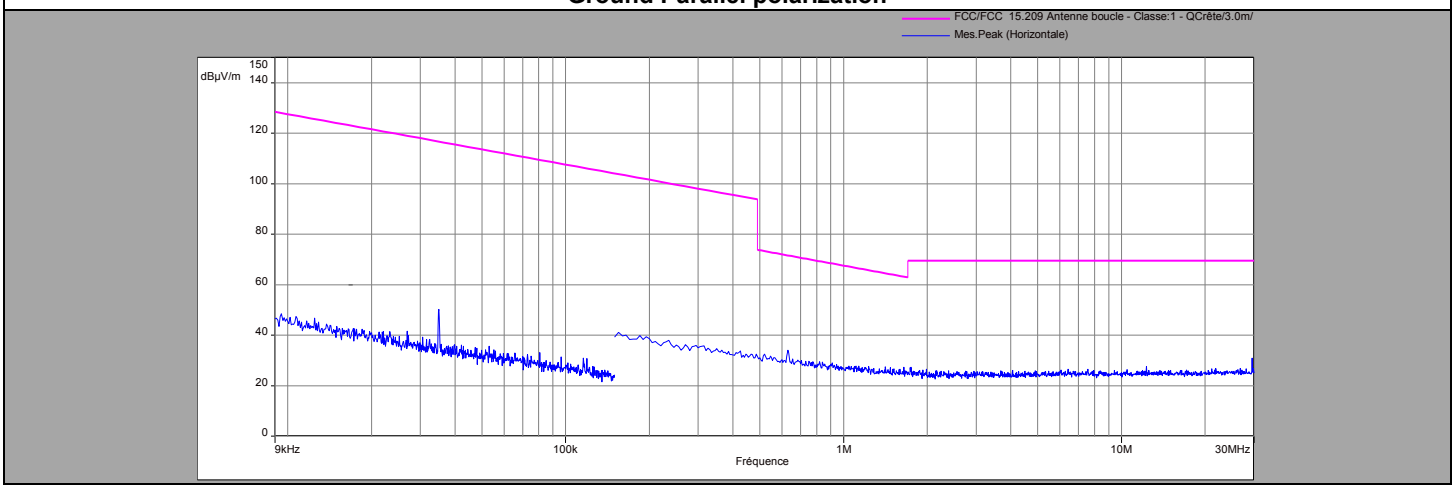
Parallel Polarization



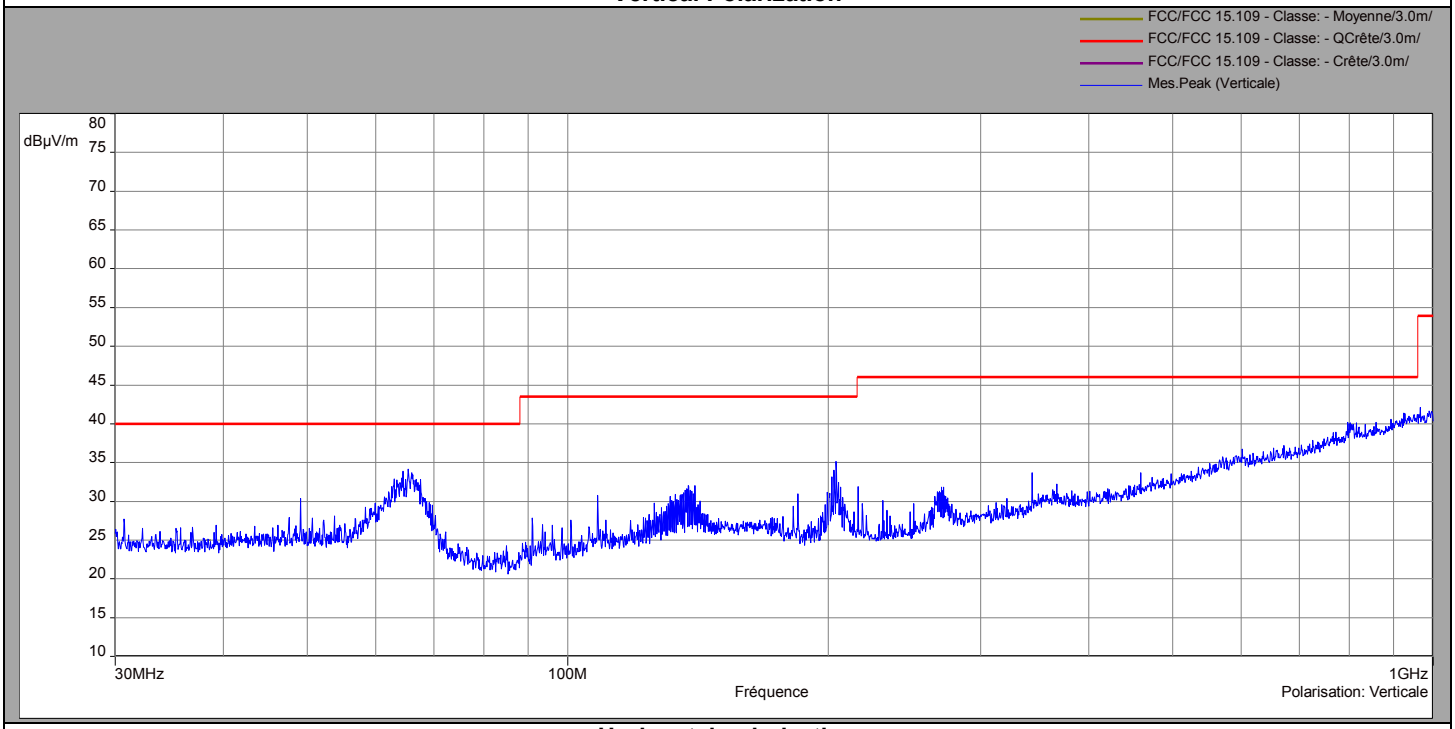
Perpendicular polarization



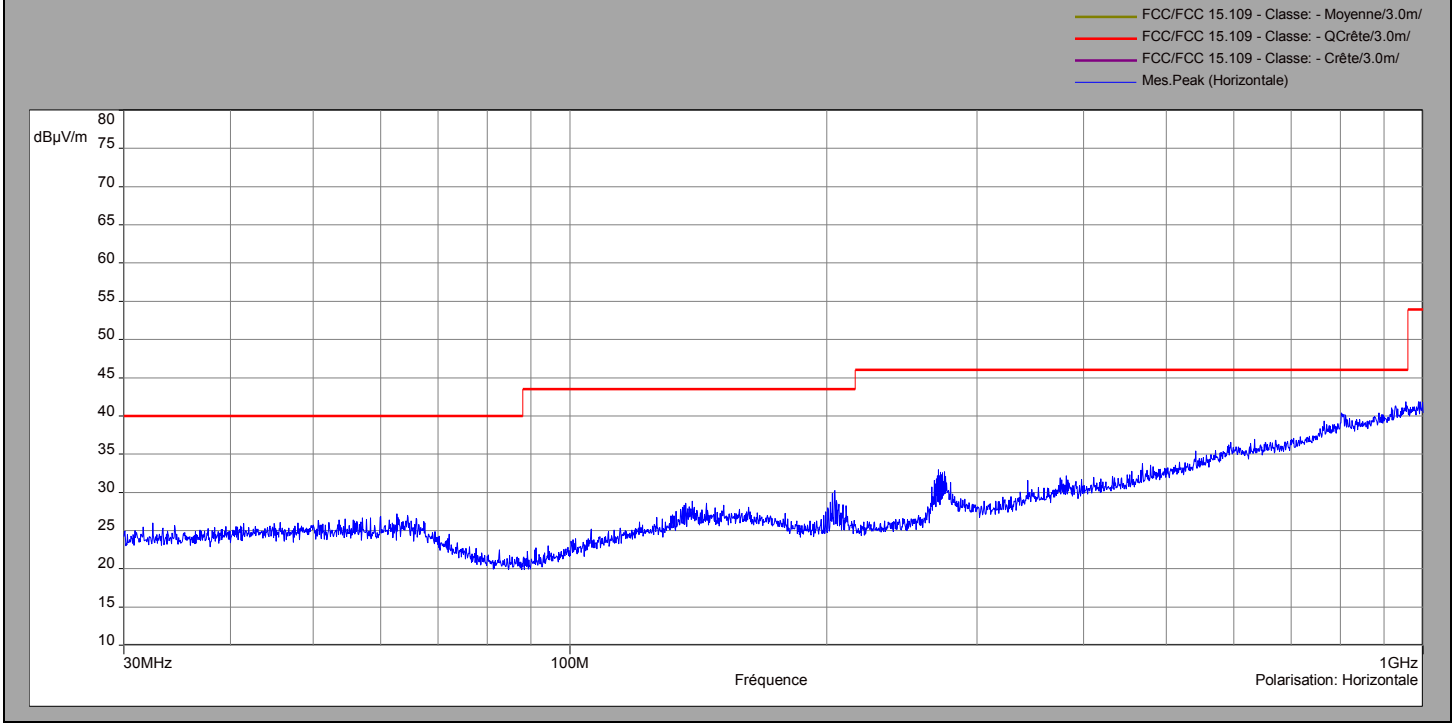
Ground Parallel polarization



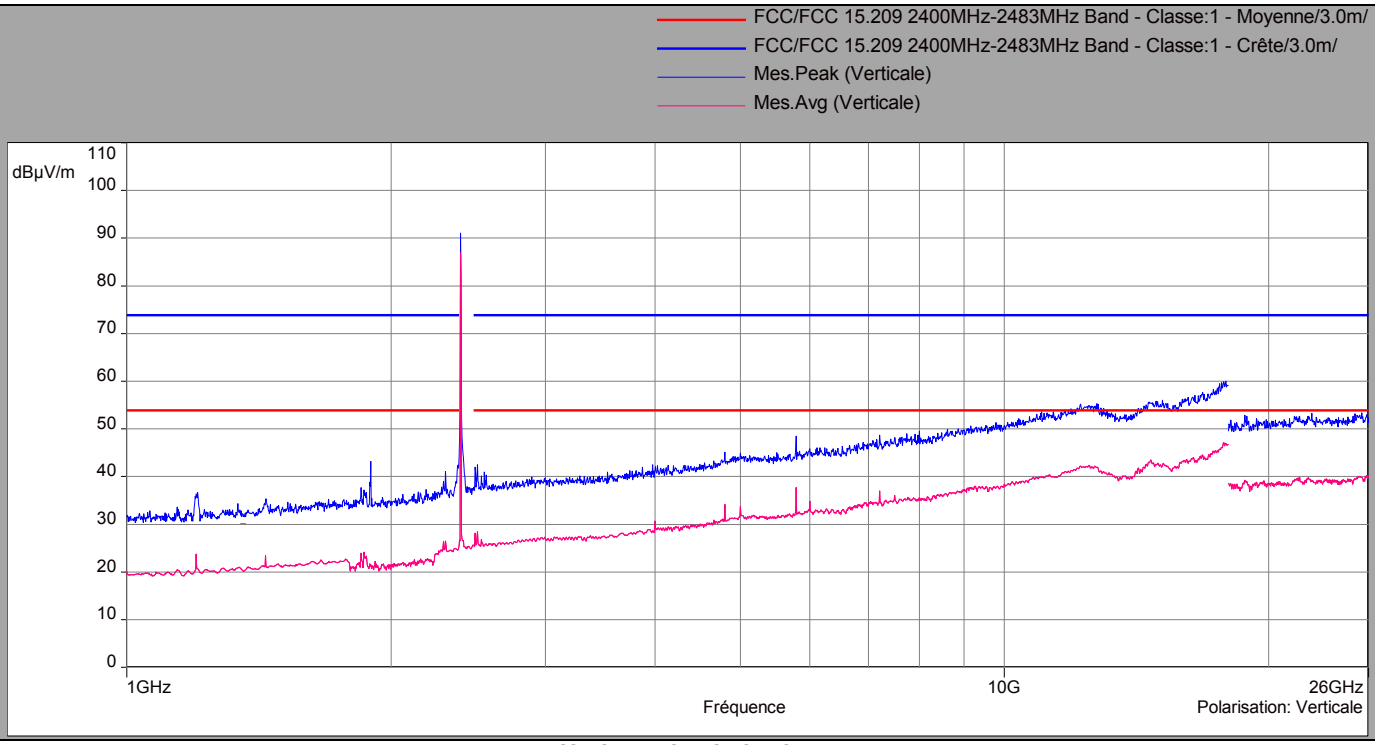
Below 1GHz
Channel
Vertical Polarization



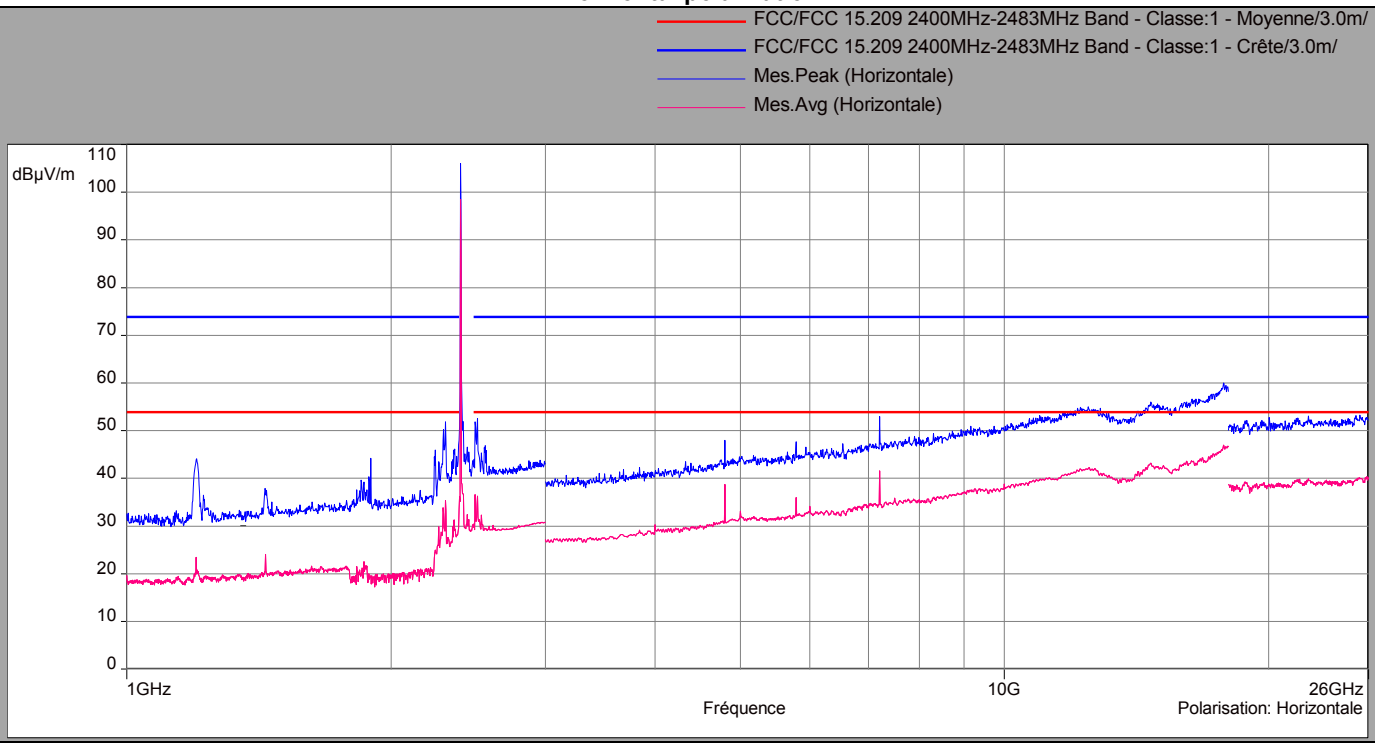
Horizontal polarization



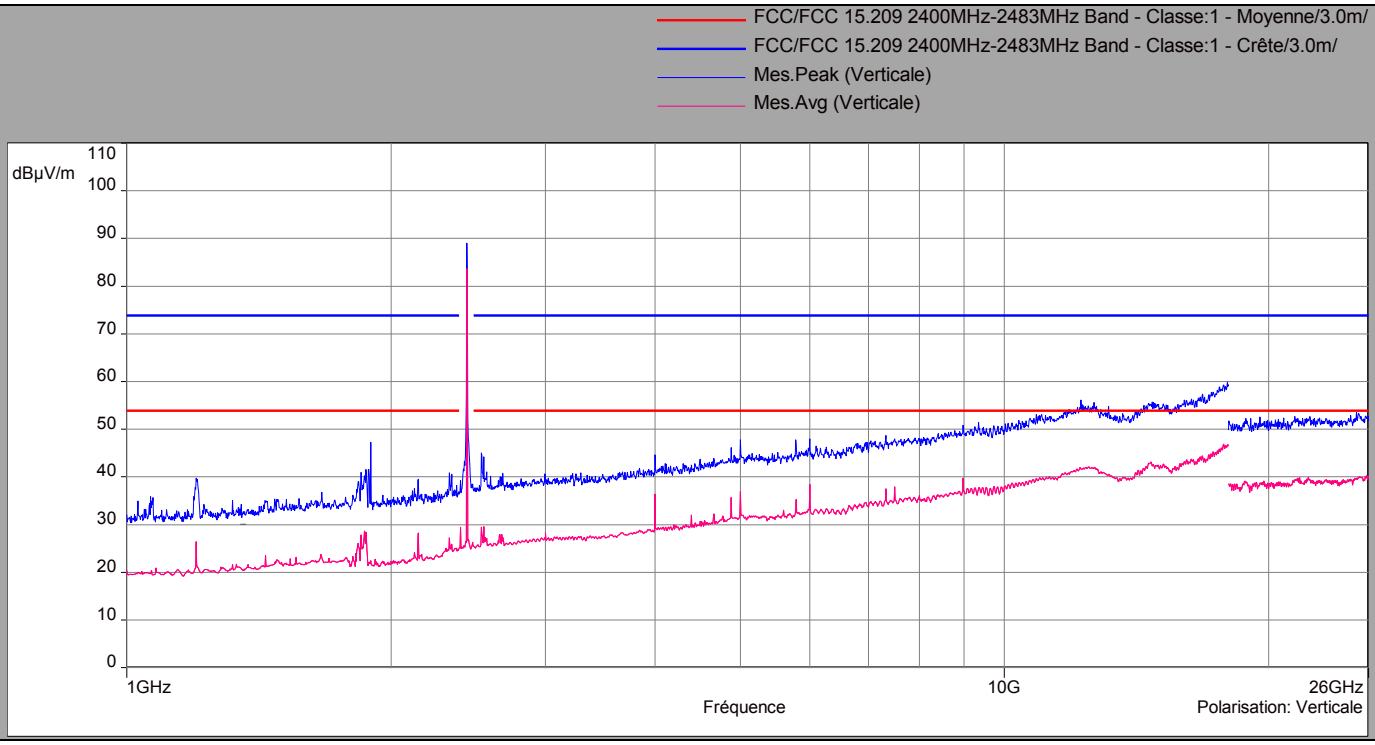
GFSK
Above 1GHz
Cmin
Vertical Polarization



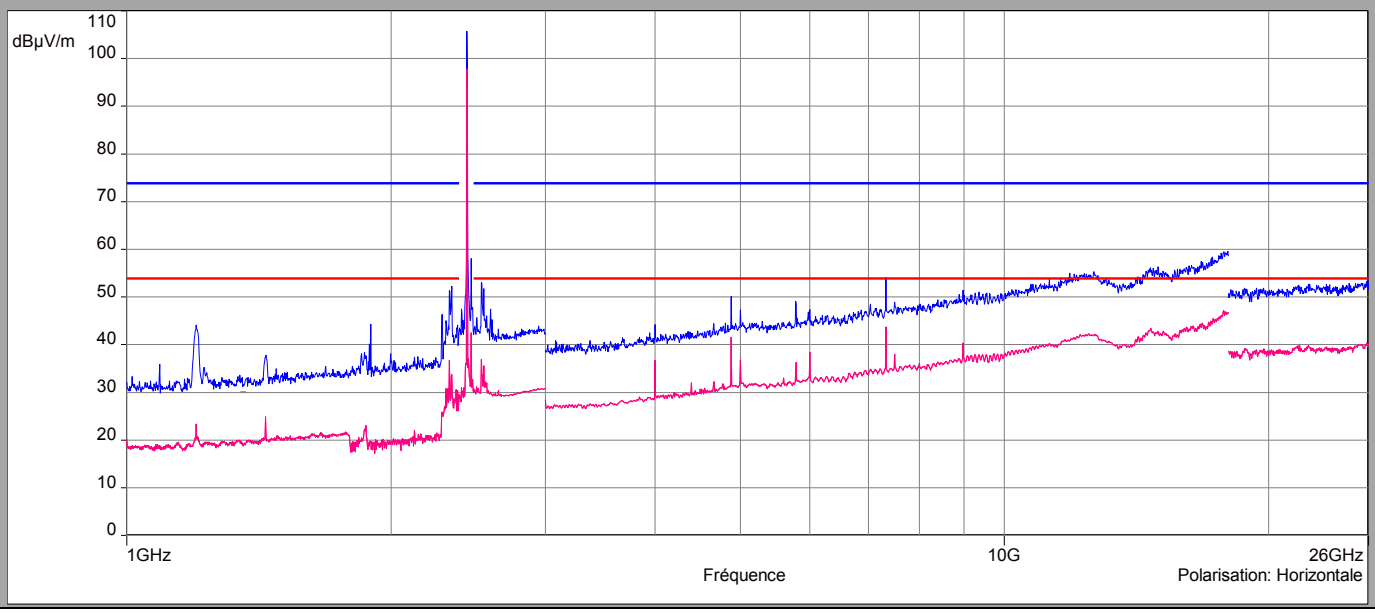
Horizontal polarization



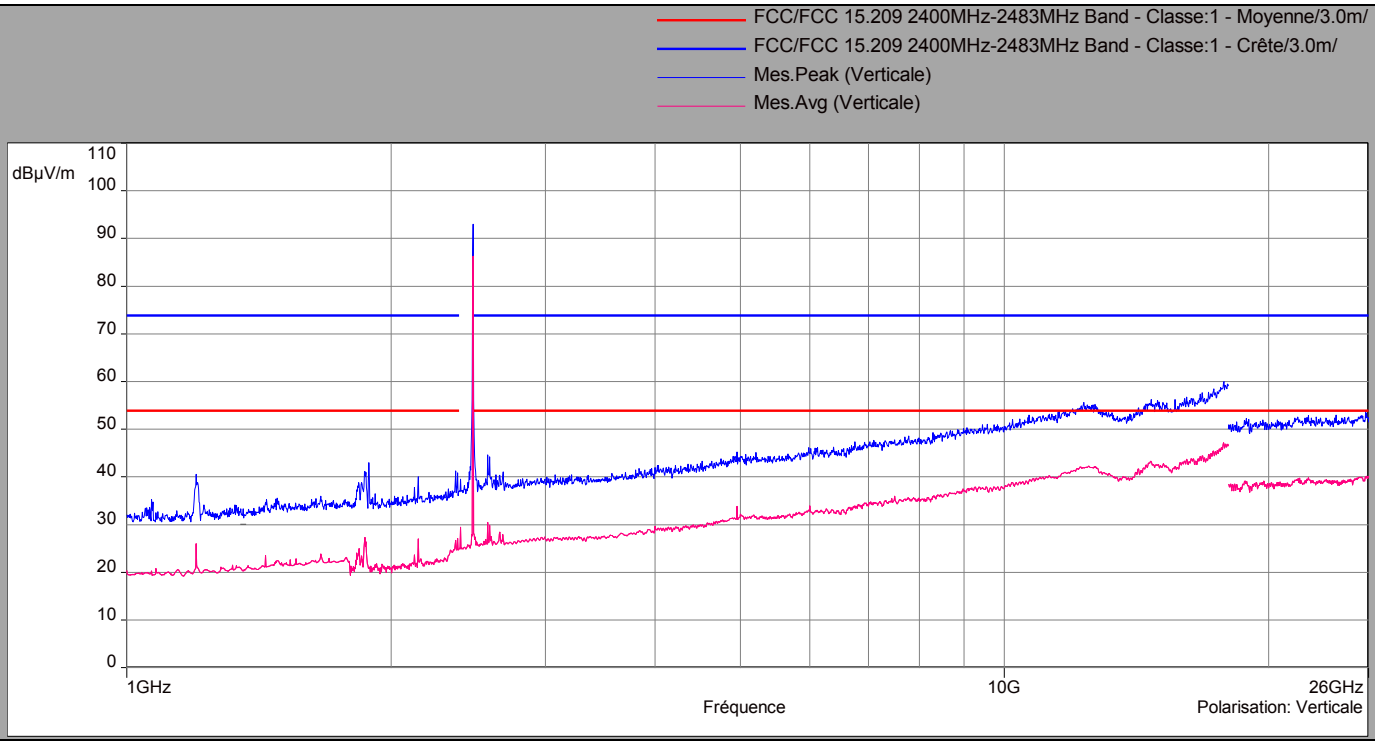
GFSK
Above 1GHz
Cnom
Vertical Polarization



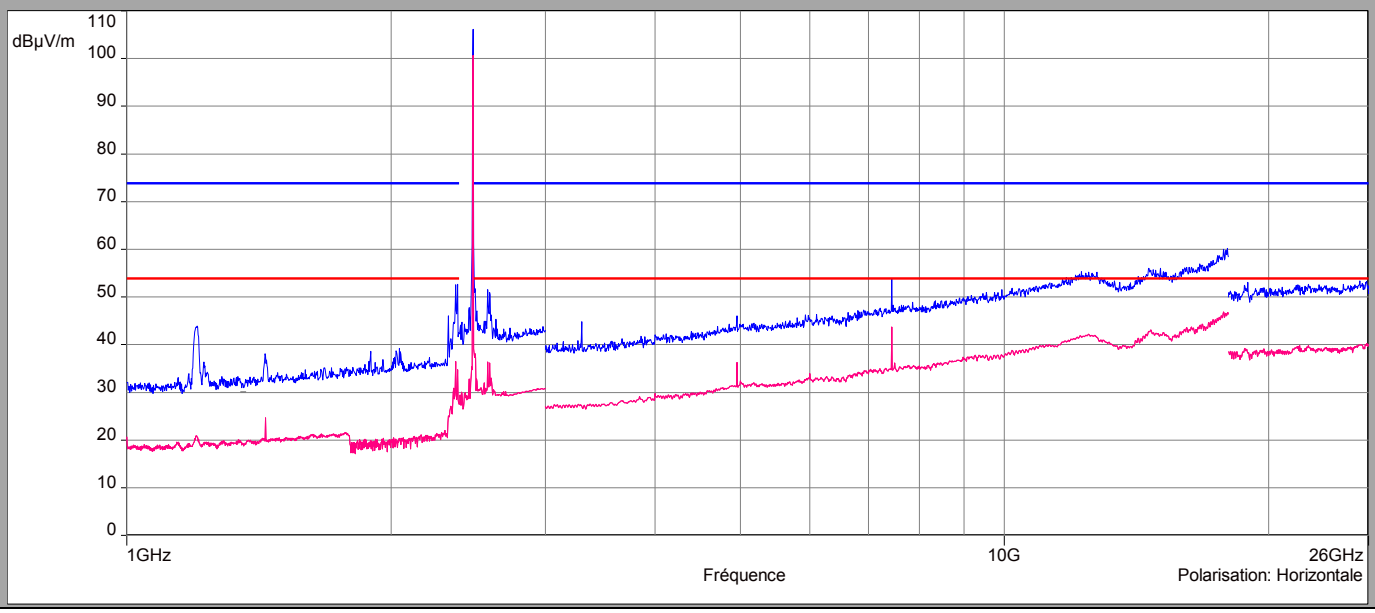
Horizontal polarization



GFSK
Above 1GHz
Cmax
Vertical Polarization



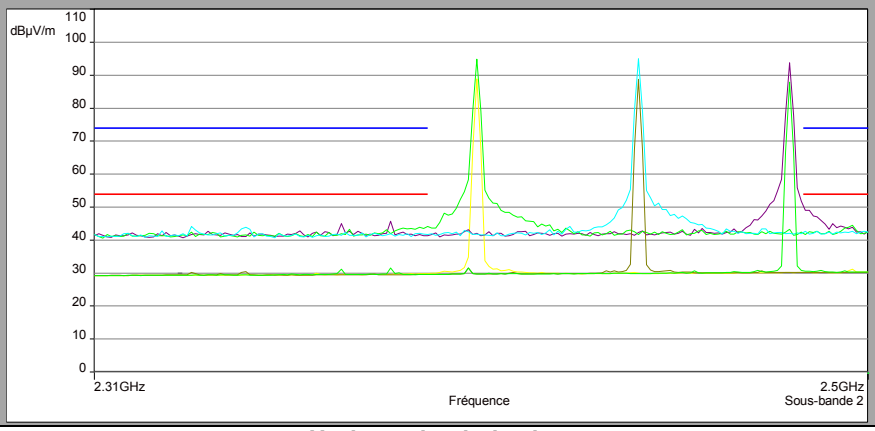
Horizontal polarization



GFSK
Above 1GHz Zoom 2310MHz-2500MHz
Cmin/Cnom/Cmax
Vertical Polarization

FCC/FCC 15.209 2400MHz-2483MHz Band - Classe:1 - Moyenne/3.0m/
FCC/FCC 15.209 2400MHz-2483MHz Band - Classe:1 - Crête/3.0m/
Mes.Avg Cmax - Verticale (Verticale)
Mes.Peak Cnom - Verticale (Verticale)
Mes.Avg Cnom - Verticale (Verticale)
Mes.Peak Cmin - Verticale (Verticale)
Mes.Peak Cmax - Verticale (Verticale)
Mes.Avg Cmin - Verticale (Verticale)

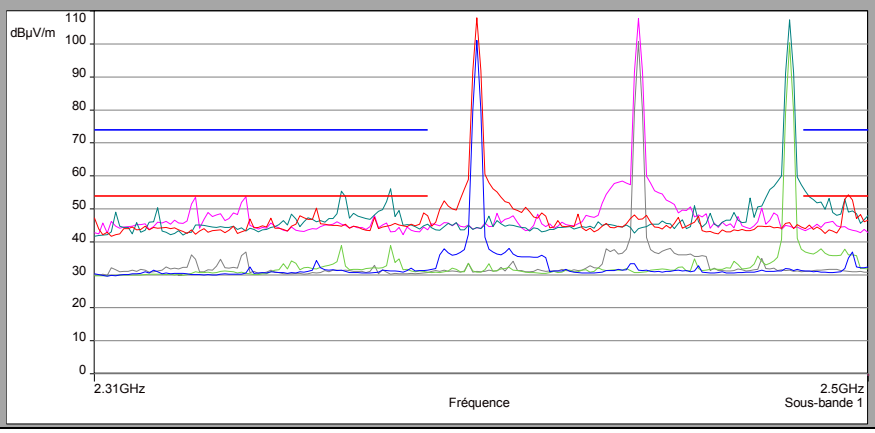
Description Sous-bande 2
Fréquences: 2.31 GHz - 2.5 GHz (Mode: Lin, Pas: 1 MHz)
Réglages: RBW: 1MHz, VBW: Auto, Durée balayage : 50 ms/Pts, Atténuation : Auto, Nombre de Balayages : 1, Preamp : C
Polarisation:Verticale
Distance: 3 m



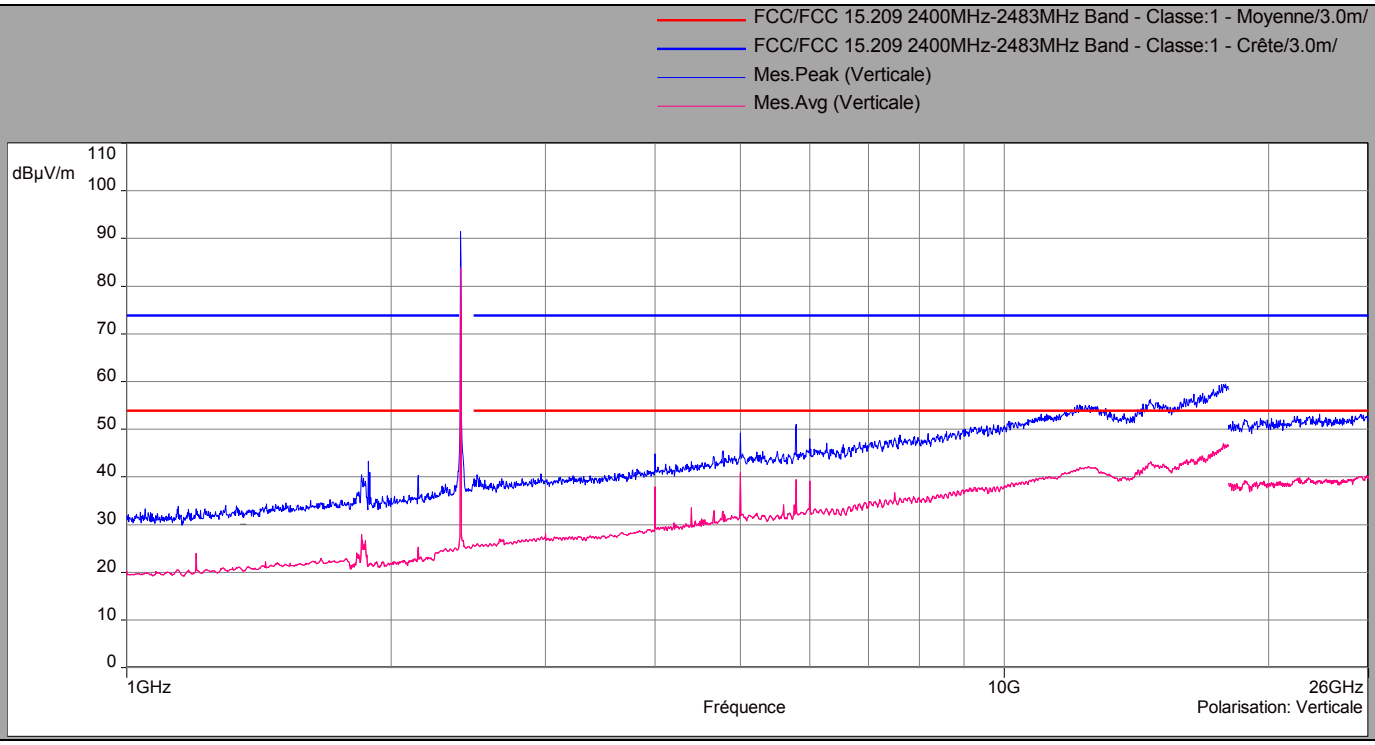
Horizontal polarization

FCC/FCC 15.209 2400MHz-2483MHz Band - Classe:1 - Moyenne/3.0m/
FCC/FCC 15.209 2400MHz-2483MHz Band - Classe:1 - Crête/3.0m/
Mes.Peak Cmin - Horizontale (Horizontale)
Mes.Peak Cmax - Horizontale (Horizontale)
Mes.Avg Cmin - Horizontale (Horizontale)
Mes.Avg Cmax - Horizontale (Horizontale)
Mes.Peak Cnom - Horizontale (Horizontale)
Mes.Avg Cnom - Horizontale (Horizontale)

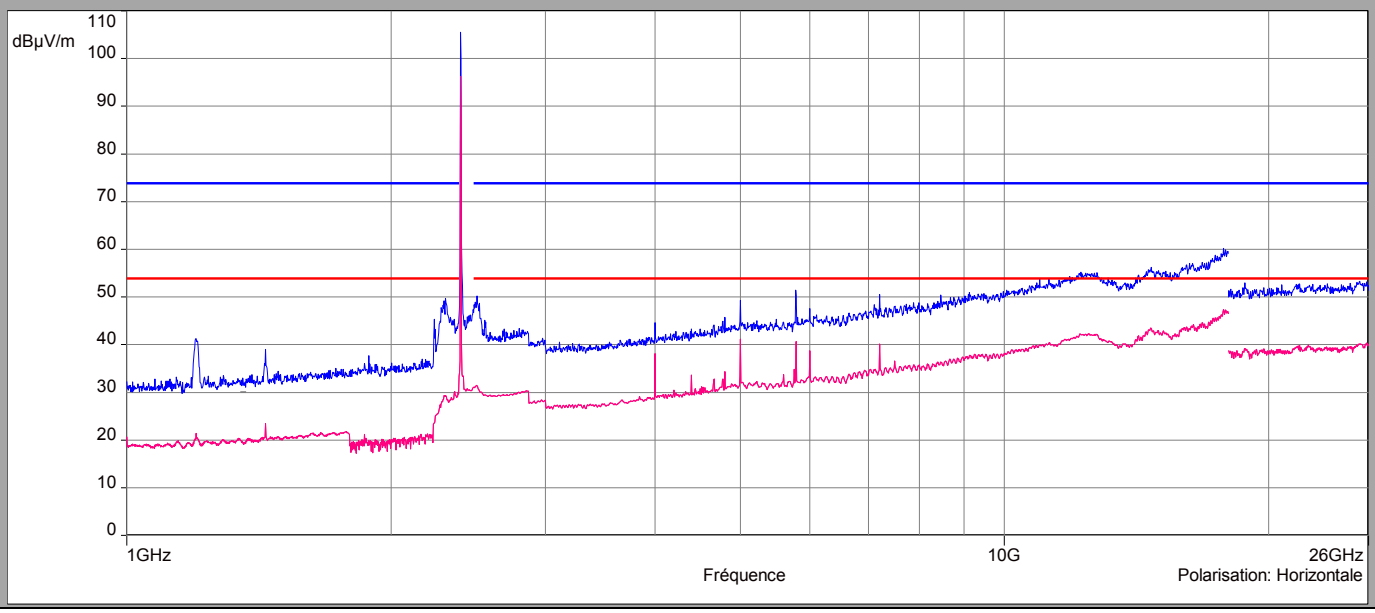
Description Sous-bande 1
Fréquences: 2.31 GHz - 2.5 GHz (Mode: Lin, Pas: 1 MHz)
Réglages: RBW: 1MHz, VBW: Auto, Durée balayage : 50 ms/Pts, Atténuation : Auto, Nombre de Balayages : 1, Preamp : C
Polarisation:Horizontale
Distance: 3 m



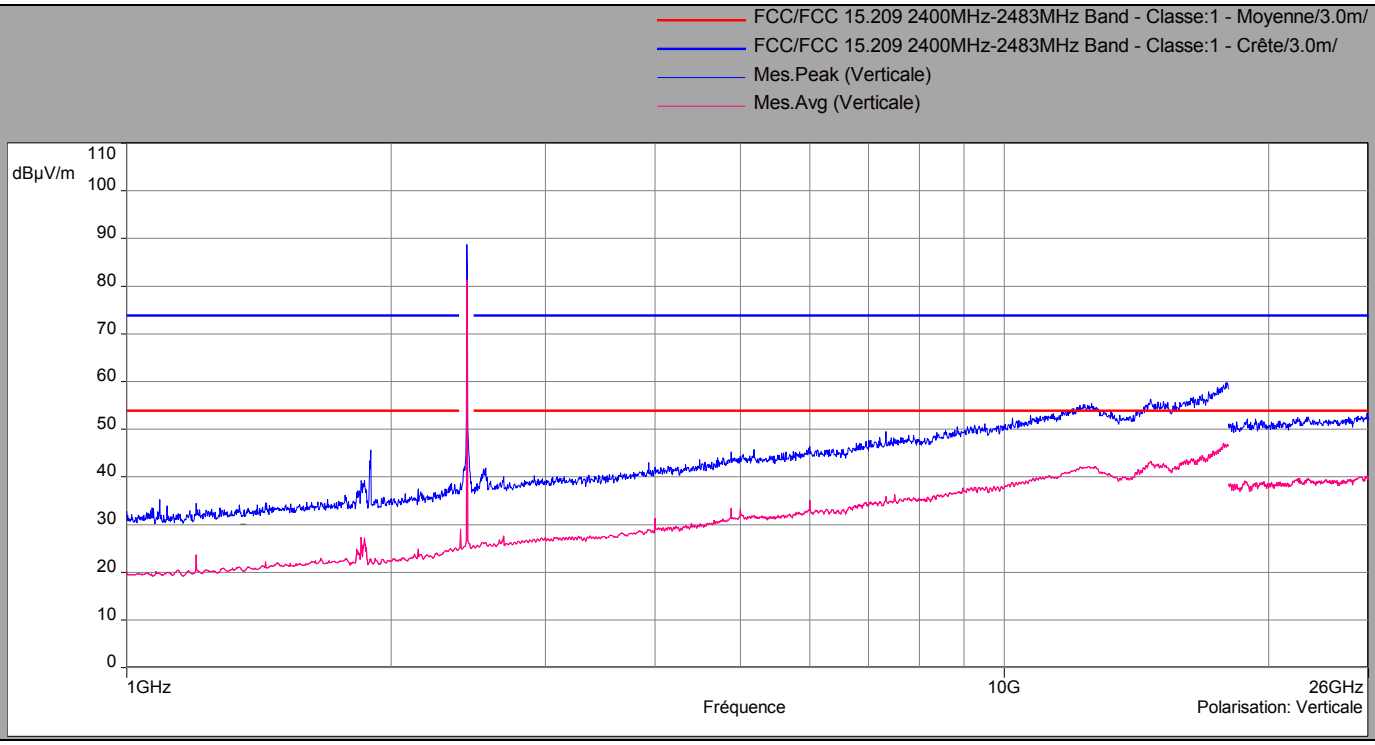
π/4 DQPSK
Above 1GHz
Cmin
Vertical Polarization



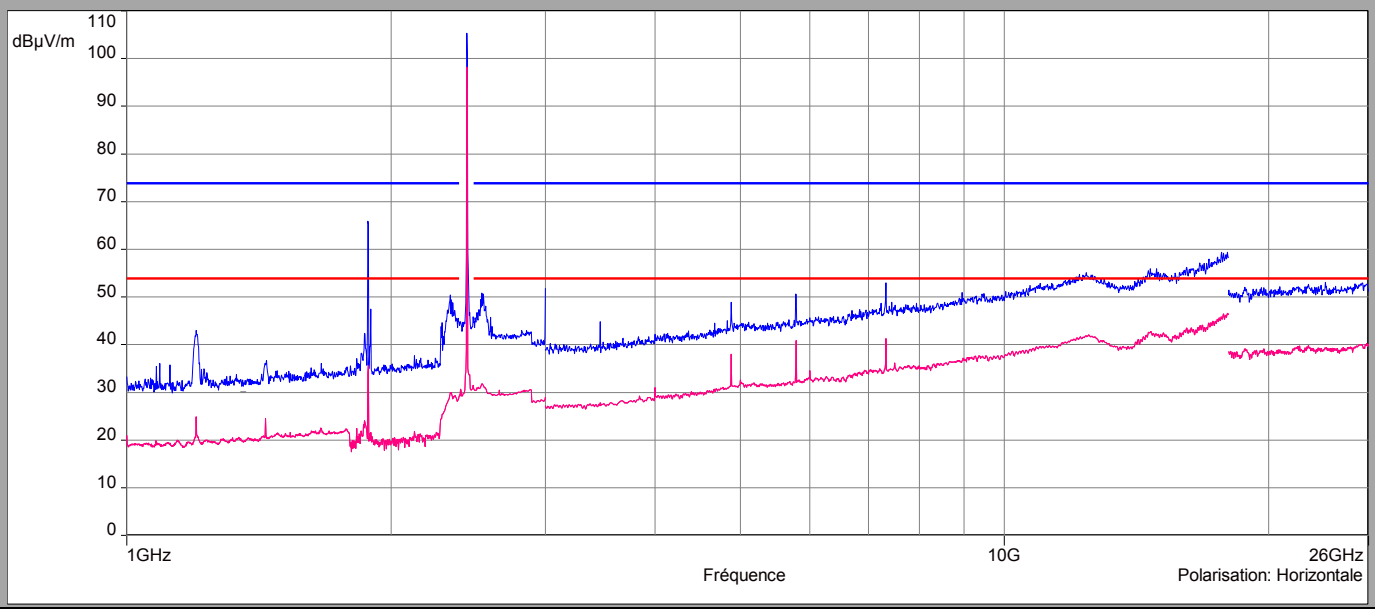
Horizontal polarization



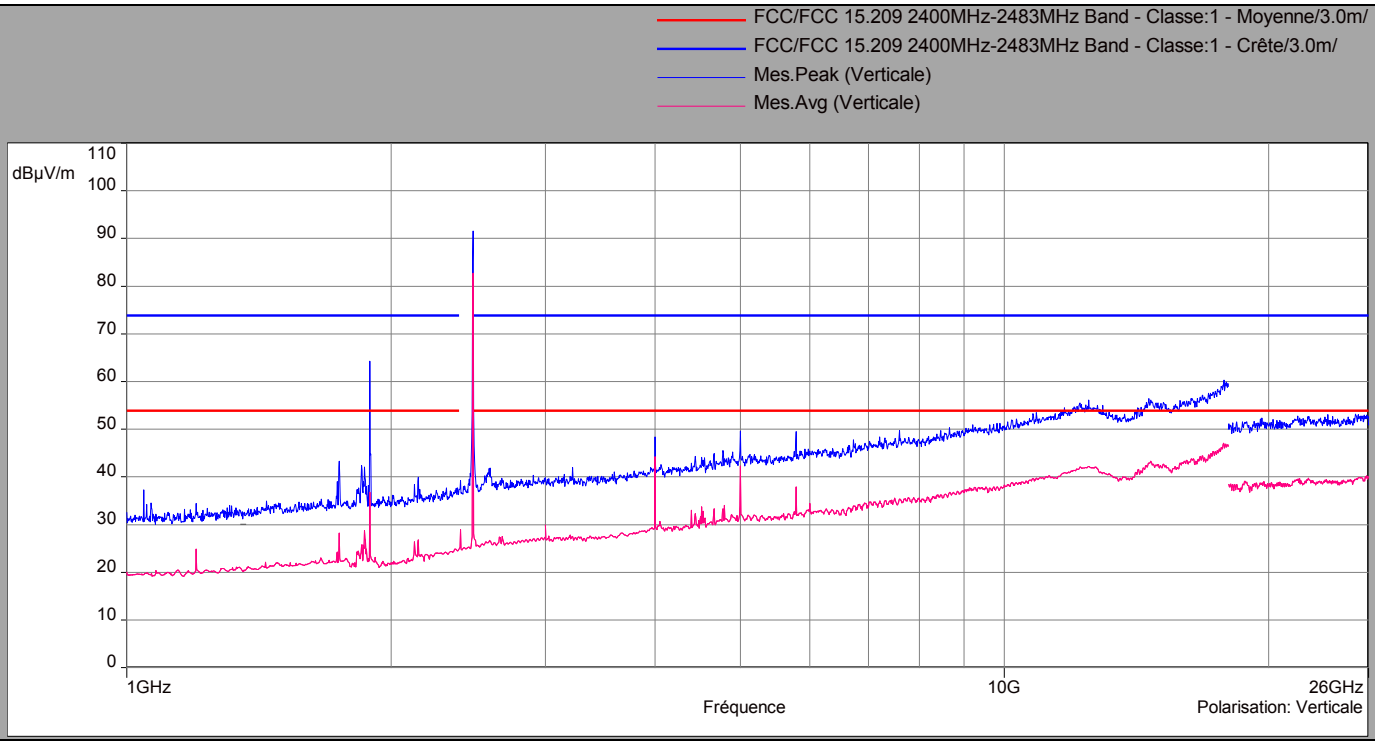
π/4 DQPSK
Above 1GHz
Cnom
Vertical Polarization



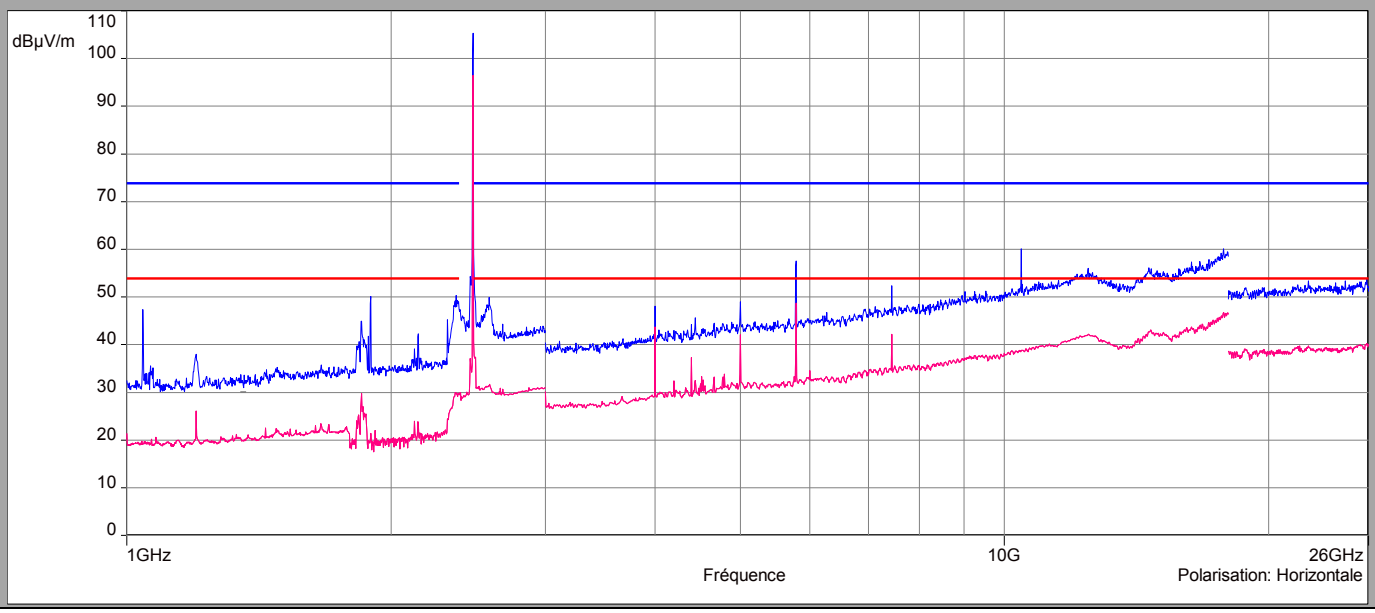
Horizontal polarization



π/4 DQPSK
Above 1GHz
Cmax
Vertical Polarization



Horizontal polarization



π/4 DQPSK

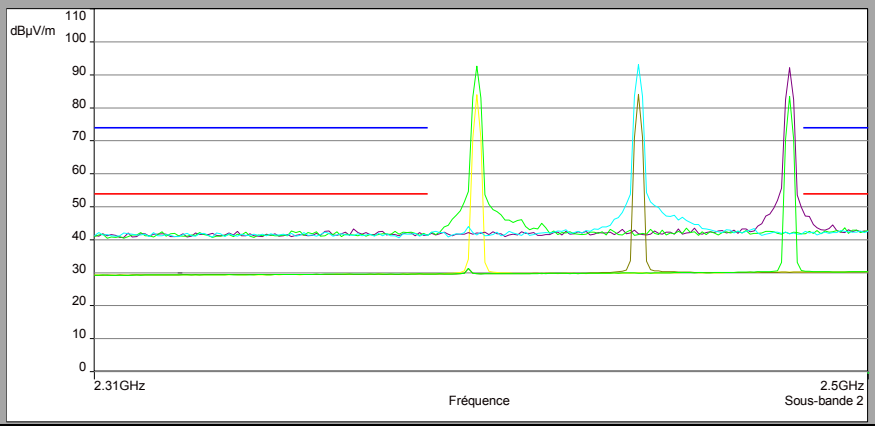
Above 1GHz Zoom 2310MHz-2500MHz

Cmin/Cnom/Cmax

Vertical Polarization

FCC/FCC 15.209 2400MHz-2483MHz Band - Classe:1 - Moyenne/3.0m/
FCC/FCC 15.209 2400MHz-2483MHz Band - Classe:1 - Crête/3.0m/
Mes.Avg Cmax - Verticale (Verticale)
Mes.Peak Cnom - Verticale (Verticale)
Mes.Avg Cnom - Verticale (Verticale)
Mes.Peak Cmin - Verticale (Verticale)
Mes.Peak Cmax - Verticale (Verticale)
Mes.Avg Cmin - Verticale (Verticale)

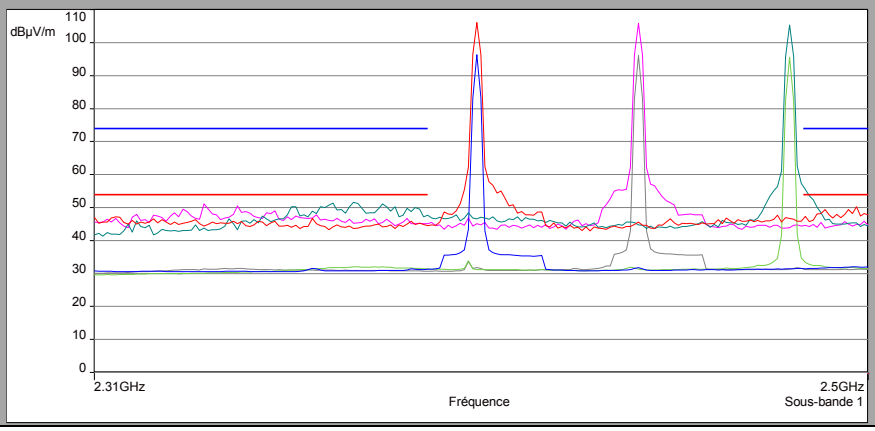
Description Sous-bande 2
Fréquences: 2.31 GHz - 2.5 GHz (Mode: Lin, Pas: 1 MHz)
Réglages: RBW: 1MHz, VBW: Auto, Durée balayage : 50 ms/Pts, Atténuation : Auto, Nombre de Balayages : 1, Preamp : C
Polarisation:Verticale
Distance: 3 m



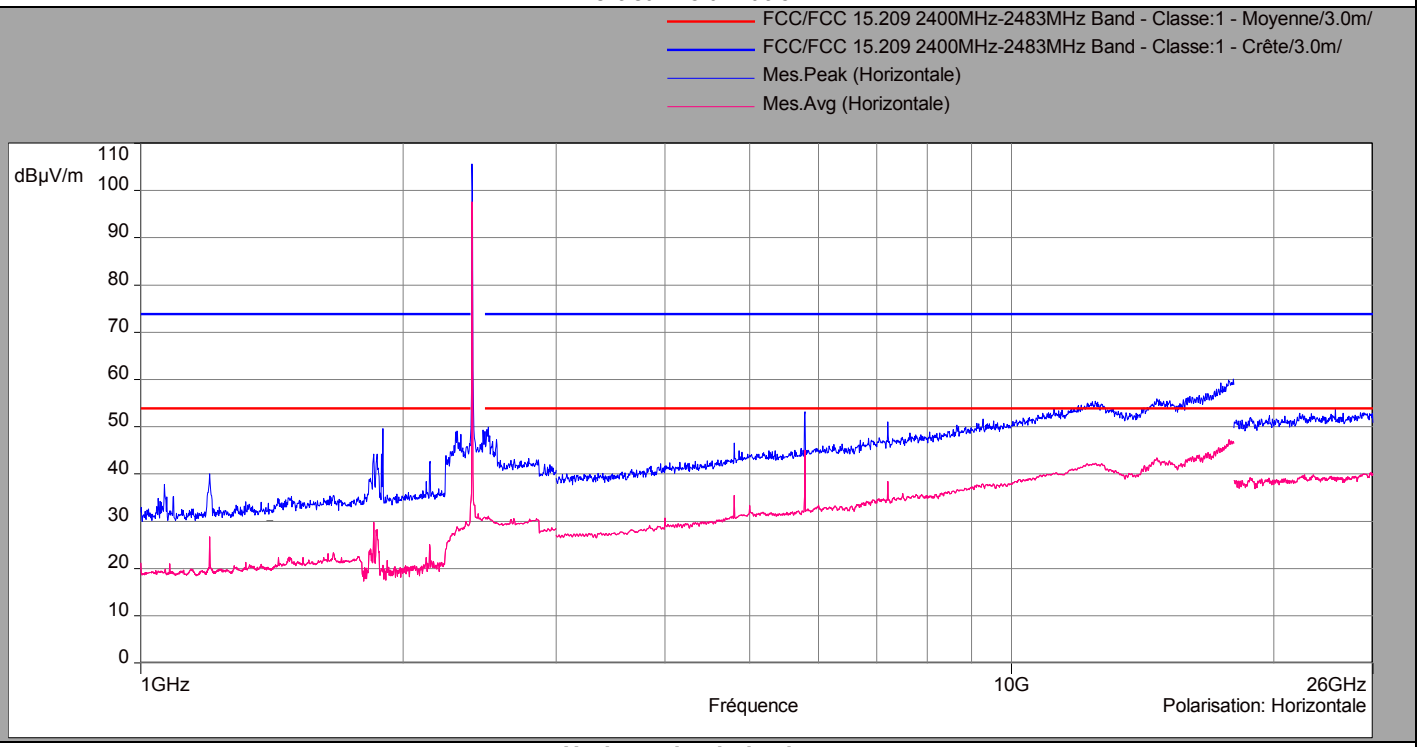
Horizontal polarization

FCC/FCC 15.209 2400MHz-2483MHz Band - Classe:1 - Moyenne/3.0m/
FCC/FCC 15.209 2400MHz-2483MHz Band - Classe:1 - Crête/3.0m/
Mes.Peak Cmin - Horizontale (Horizontale)
Mes.Peak Cmax - Horizontale (Horizontale)
Mes.Avg Cmin - Horizontale (Horizontale)
Mes.Avg Cmax - Horizontale (Horizontale)
Mes.Peak Cnom - Horizontale (Horizontale)
Mes.Avg Cnom - Horizontale (Horizontale)

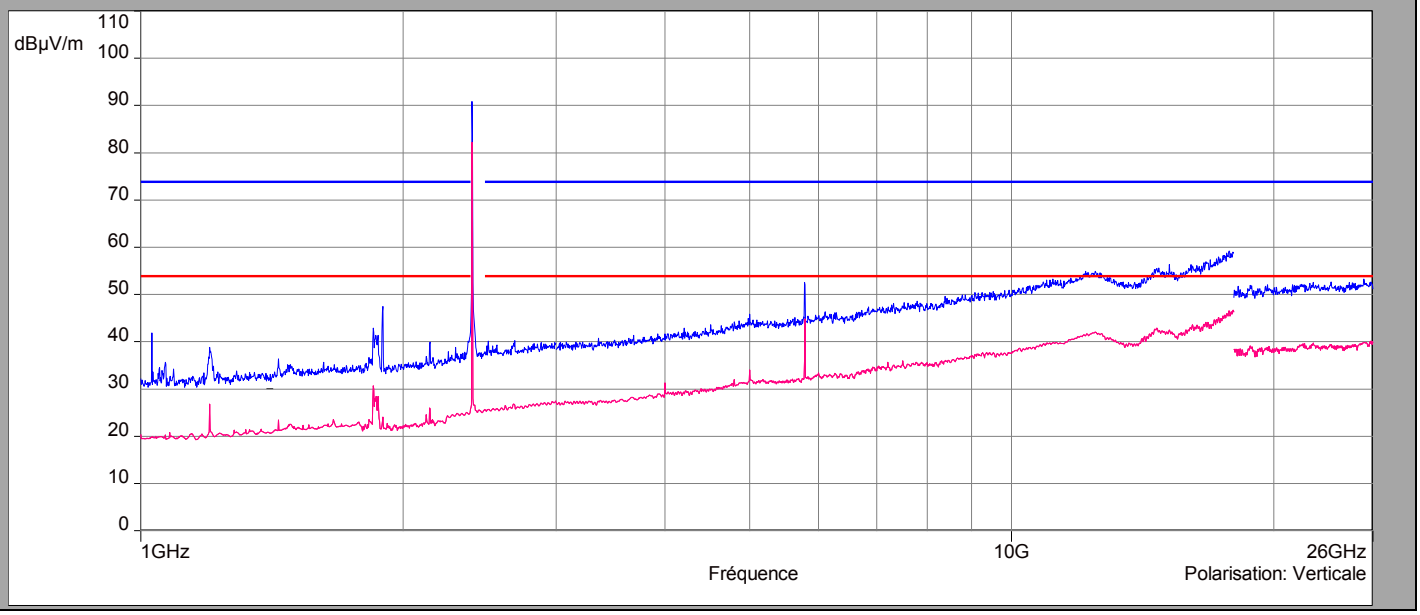
Description Sous-bande 1
Fréquences: 2.31 GHz - 2.5 GHz (Mode: Lin, Pas: 1 MHz)
Réglages: RBW: 1MHz, VBW: Auto, Durée balayage : 50 ms/Pts, Atténuation : Auto, Nombre de Balayages : 1, Preamp : C
Polarisation:Horizontale
Distance: 3 m



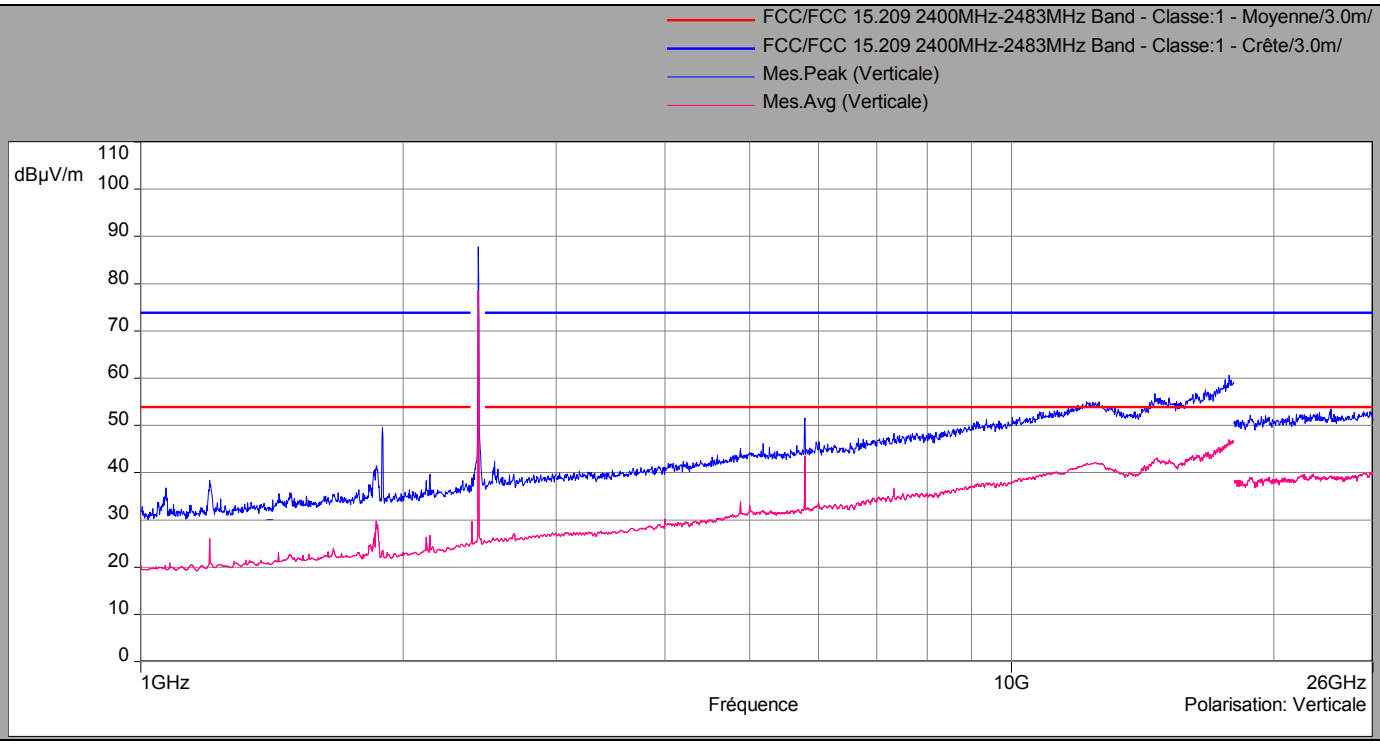
8DPSK
Above 1GHz
Cmin
Vertical Polarization



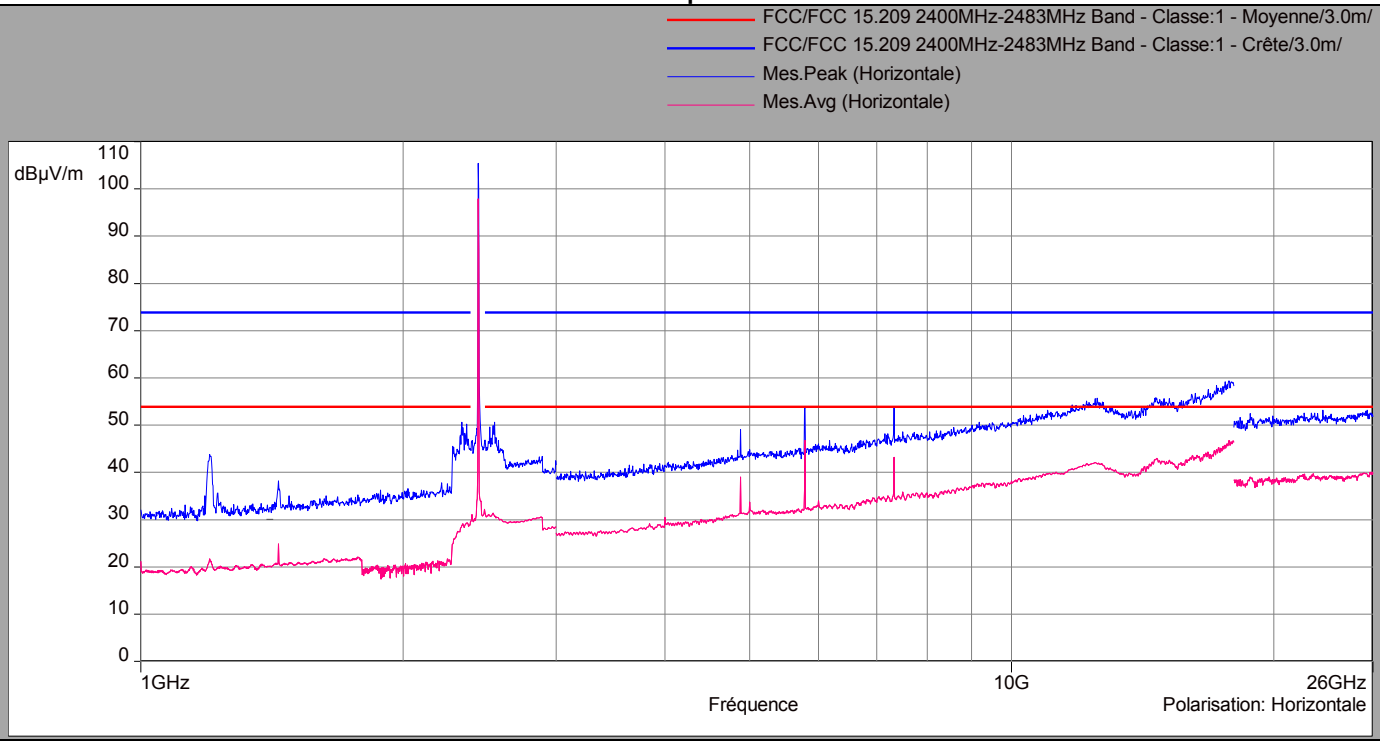
Horizontal polarization



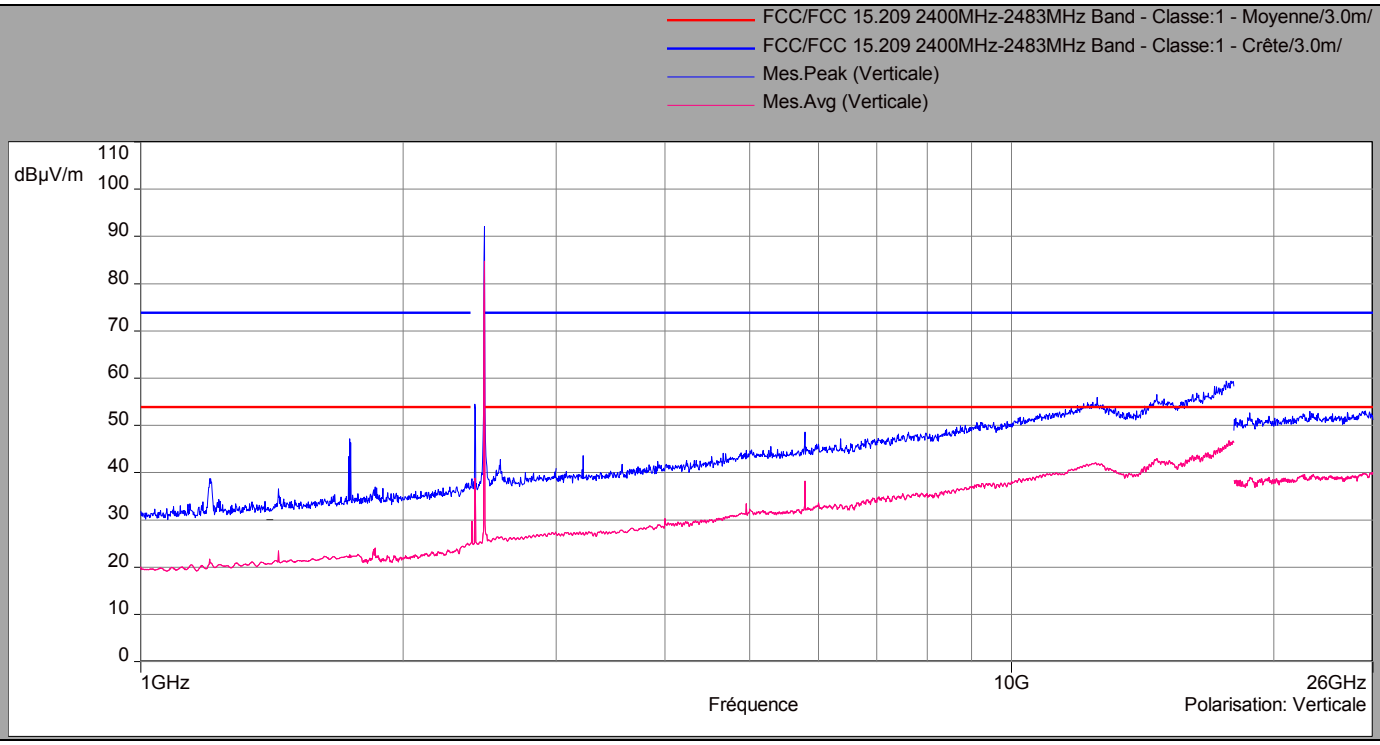
8DPSK
Above 1GHz
Cnom
Vertical Polarization



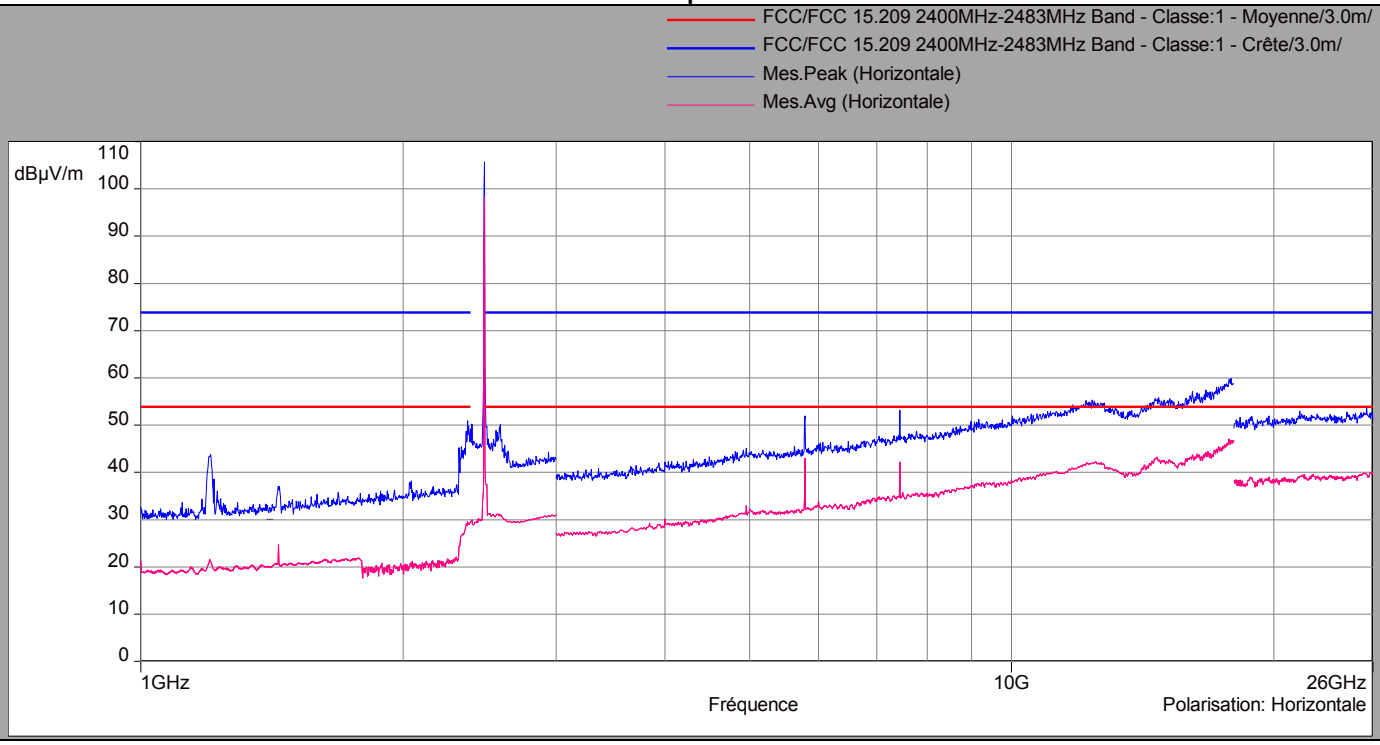
Horizontal polarization



8DPSK
Above 1GHz
Cmax
Vertical Polarization



Horizontal polarization



8DPSK

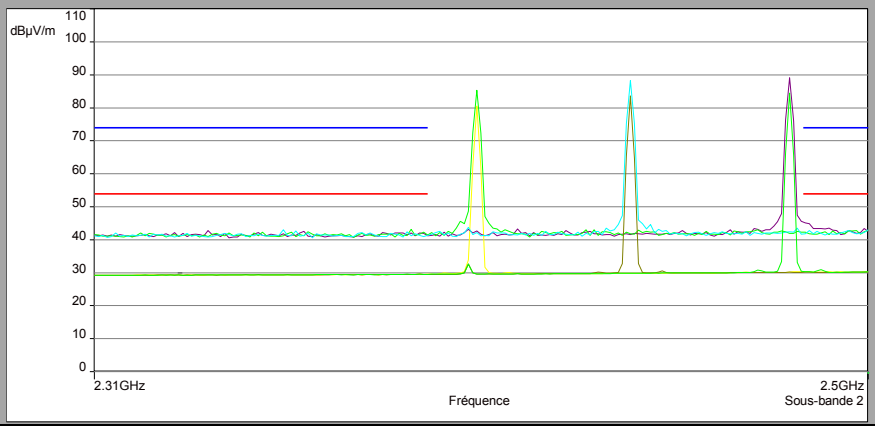
Above 1GHz Zoom 2310MHz-2500MHz

Cmin/Cnom/Cmax

Vertical Polarization

FCC/FCC 15.209 2400MHz-2483MHz Band - Classe:1 - Moyenne/3.0m/
FCC/FCC 15.209 2400MHz-2483MHz Band - Classe:1 - Crête/3.0m/
Mes.Avg Cmax - Verticale (Verticale)
Mes.Peak Cnom - Verticale (Verticale)
Mes.Avg Cnom - Verticale (Verticale)
Mes.Peak Cmin - Verticale (Verticale)
Mes.Peak Cmax - Verticale (Verticale)
Mes.Avg Cmin - Verticale (Verticale)

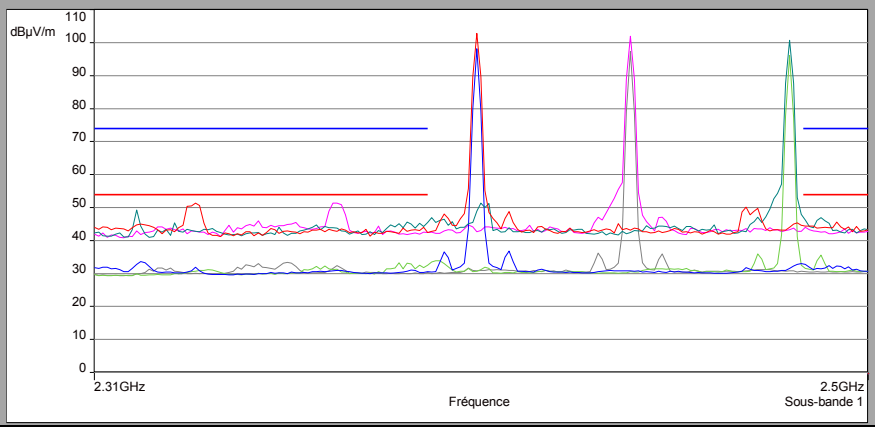
Description Sous-bande 2
Fréquences: 2.31 GHz - 2.5 GHz (Mode: Lin, Pas: 1 MHz)
Réglages: RBW: 1MHz, VBW: Auto, Durée balayage : 50 ms/Pts, Atténuation : Auto, Nombre de Balayages : 1, Preamp : C
Polarisation:Verticale
Distance: 3 m



Horizontal polarization

FCC/FCC 15.209 2400MHz-2483MHz Band - Classe:1 - Moyenne/3.0m/
FCC/FCC 15.209 2400MHz-2483MHz Band - Classe:1 - Crête/3.0m/
Mes.Peak Cmin - Horizontale (Horizontale)
Mes.Peak Cmax - Horizontale (Horizontale)
Mes.Avg Cmin - Horizontale (Horizontale)
Mes.Avg Cmax - Horizontale (Horizontale)
Mes.Peak Cnom - Horizontale (Horizontale)
Mes.Avg Cnom - Horizontale (Horizontale)

Description Sous-bande 1
Fréquences: 2.31 GHz - 2.5 GHz (Mode: Lin, Pas: 1 MHz)
Réglages: RBW: 1MHz, VBW: Auto, Durée balayage : 50 ms/Pts, Atténuation : Auto, Nombre de Balayages : 1, Preamp : C
Polarisation:Horizontale
Distance: 3 m



9kHz to 30MHz				
Polarization	**Frequency (MHz)**	**Peak Level (dBµV/m)**	**QPeak Level (dBµV/m)**	**Limit (dBµV/m)**
all emissions were greater than 20 dB below the limit				

30MHz – 1GHz					
Polarization	**Frequency (MHz)**	**Peak Level (dBµV/m)**	**QPeak Level (dBµV/m)**	**Limit (dBµV/m)**	**Margin (dB)**
Verticale	65.4	34.15	-	40.0	5.85
Verticale	49.15	30.37	-	40.0	9.62
Verticale	108.3	30.79	-	43.5	12.71
Verticale	204.26	35.14	-	43.5	8.36
Horizontale	204.32	30.23	-	43.5	13.27
Verticale	796.58	40.19	-	46.0	5.81

GFSK								
Above 1GHz								
Cmin/Cnom/Cmax								
Polarization	**Frequency (MHz)**	**Average Level (dBµV/m)**	**Average Level + Duty Cycle Factor (dBµV/m)**	**Average Limit (dBµV/m)**	**Average Margin Level (dB)**	**Peak Level (dBµV/m)**	**Peak Limit (dBµV/m)**	**Peak Margin Level (dB)**
Horizontale	1201	23.47	30.15	54	30.53	44.16	74	29.84
Horizontale	1898	22.47	29.15	54	31.53	44.22	74	29.78
Horizontale	2390	31.40	38.08	54	22.60	47.97	74	26.03
Verticale	2390	29.87	36.55	54	24.13	44.12	74	29.88
Horizontale	2483.5	36.92	43.60	54	17.08	55.32	74	18.68
Verticale	2483.5	30.60	37.28	54	23.40	49.07	74	24.93
Horizontale	4804	38.68	45.36	54	15.32	47.95	74	26.05
Horizontale	4884	41.60	48.28	54	12.40	50.11	74	23.89
Horizontale	7206	41.55	48.23	54	12.45	52.94	74	21.06
Horizontale	7326	43.70	50.38	54	10.30	54.10	74	19.90
Horizontale	7440	43.69	50.37	54	10.31	53.84	74	20.16

π/4 DQPSK								
Above 1GHz								
Cmin/Cnom/Cmax								
Polarization	**Frequency (MHz)**	**Average Level (dBµV/m)**	**Average Level + Duty Cycle Factor (dBµV/m)**	**Average Limit (dBµV/m)**	**Average Margin Level (dB)**	**Peak Level (dBµV/m)**	**Peak Limit (dBµV/m)**	**Peak Margin Level (dB)**
Horizontale	1200	21.38	28.07	54	32.62	41.23	74	32.77
Horizontale	1440	23.48	30.17	54	30.52	38.97	74	35.03
Horizontale	1883	35.57	42.26	54	18.43	65.09	74	08.91
Verticale	1885	27.90	34.59	54	26.10	43.33	74	30.67
Horizontale	2390	31.24	37.93	54	22.76	44.65	74	29.35
Verticale	2390	29.60	36.29	54	24.40	41.27	74	32.73
Horizontale	2483.5	33.42	40.11	54	20.58	55.50	74	18.50
Verticale	2483.5	30.45	37.14	54	23.55	47.20	74	26.80
Horizontale	4884	37.97	44.66	54	16.03	48.88	74	25.12
Horizontale	5000	41.60	48.29	54	12.40	49.34	74	24.66
Horizontale	5787	40.83	47.52	54	13.17	50.65	74	23.35
Horizontale	5791	47.81	54.50	54	06.19	51.51	74	22.49
Horizontale	7326	41.23	47.92	54	12.77	52.94	74	21.06
Horizontale	10447	39.25	45.94	54	14.75	60.10	74	13.90

8DPSK								
Above 1GHz								
Cmin/Cnom/Cmax								
Polarization	**Frequency (MHz)**	**Average Level (dBµV/m)**	**Average Level + Duty Cycle Factor (dBµV/m)**	**Average Limit (dBµV/m)**	**Average Margin Level (dB)**	**Peak Level (dBµV/m)**	**Peak Limit (dBµV/m)**	**Peak Margin Level (dB)**
Horizontale	1200	26.73	33.41	54	27.27	43.80	74	30.20
Verticale	1896	29.78	36.46	54	24.22	49.64	74	24.36
Horizontale	2390	31.65	38.33	54	22.35	47.97	74	26.03
Verticale	2390	29.60	36.28	54	24.40	41.74	74	32.26
Horizontale	2483.5	33.93	40.61	54	20.07	55.28	74	18.72
Verticale	2483.5	30.72	37.40	54	23.28	47.26	74	26.74
Horizontale	4884	39.04	45.72	54	14.96	49.07	74	24.93
Horizontale	5791	44.98	51.66	54	09.02	53.75	74	20.25
Horizontale	7326	43.15	49.83	54	10.85	53.89	74	20.11
Horizontale	7440	42.16	48.84	54	11.84	53.20	74	20.80

13.7. CONCLUSION

Unwanted Emission in restricted frequency bands 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 15.247 limits.

14. UNCERTAINTIES CHART

47 CFR Part 15.209 & 15.207 Kind of test	Wide uncertainty laboratory (k=2) ±x(dB) / (Hz)/ ms	Uncertainty limit
Measurement of conducted disturbances in voltage on the AC power port (9 kHz – 150 kHz)	2,67	3.8
Measurement of conducted disturbances in voltage on the AC power port (150 kHz – 30 MHz)	2,67	3.4
Measurement of conducted disturbances in voltage on the telecommunication port. (AAN)	3,67	5.0
Measurement of conducted disturbances in current (current clamp)	2,73	2.9
Measurement of disturbance power	2,67	4.5
Measurement of radiated magnetic field from 10kHz to 30MHz in SAC V01	4,48	/
Measurement of radiated magnetic field from 10kHz to 30MHz in SAC C01	4,48	/
Measurement of radiated electric field from 30 to 1000MHz in horizontal position on the OATS (Ecuelles)	4,88	6.3
Measurement of radiated electric field from 1 to 18GHz on the Ecuelles site	5.16	/
Measurement of radiated electric field from 30 to 1000MHz in vertical position on the OATS (Ecuelles)	4,99	6.3
Measurement of radiated electric field from 30 to 1000MHz in horizontal position in SAC C01	5,08	6.3
Measurement of radiated electric field from 30 to 1000MHz in vertical position in SAC C01	5,16	6.3
Measurement of radiated electric field from 30 to 1000MHz in horizontal position in SAC V01	5,08	6.3
Measurement of radiated electric field from 30 to 1000MHz in vertical position in SAC V01	5,15	6.3
Measurement of radiated electric field from 1 to 6 GHz C01	5,1	5.2
Measurement of radiated electric field from 1 to 6 GHz V01	4,85	5.2
Measurement of radiated magnetic field from 10kHz to 30MHz on the OATS (Ecuelles)	4,48	/

The uncertainty values calculated by the laboratory are lower than limit uncertainty values defined by the CISPR. The conformity of the sample is directly established by the applicable limits values. This table includes all uncertainties maximum feasible for testing in the laboratory, whether or not made in this report