

## 7. TIME OF OCCUPANCY

### 7.1. TEST CONDITIONS

Test performed by : Armand MAHOUNGOU  
Date of test : April 8, 2021  
Ambient temperature : 26°C  
Relative humidity : 45%

### 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:

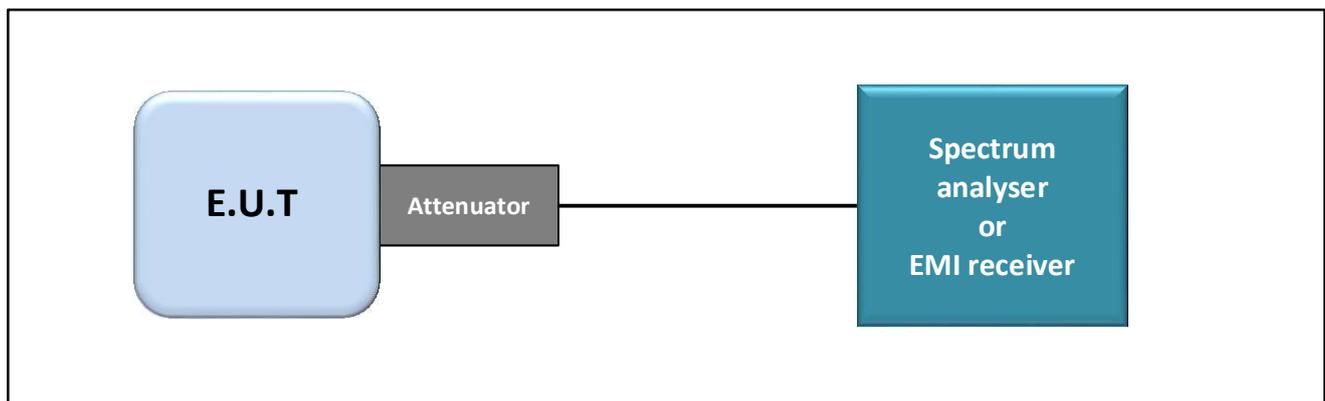
- Conducted Method
- Radiated Method

- Test Procedure:

- ANSI C63.10 § 7.8.4

Dwell Time is measured and calculated using the zero SPAN mode on a channel frequency and a SWEEP with an adapter value to measure the number of transmission within a period and the time of transmission

RBW: 100kHz



Test set up of Time of Occupancy



Photograph for Time of Occupancy



Photograph for Time of Occupancy



### 7.3. LIMIT

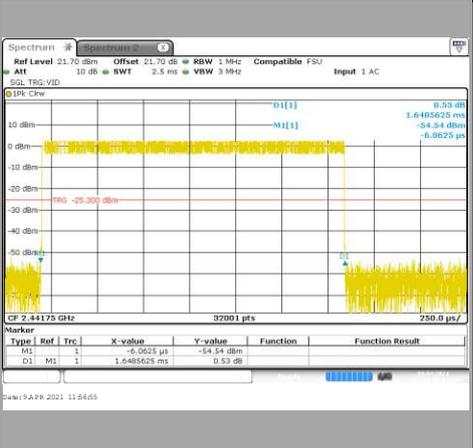
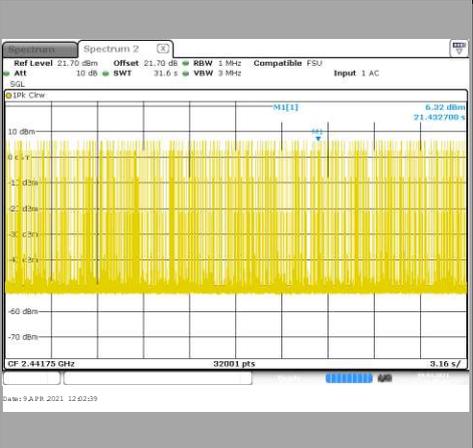
The Time of Occupancy shall not exceed 0.4s within any period of 0.4s multiplied by the number of hopping channels employed

### 7.4. TEST EQUIPMENT LIST

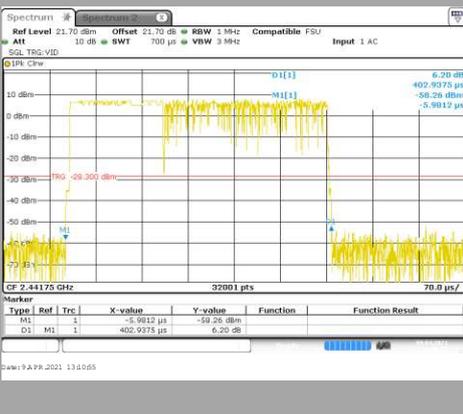
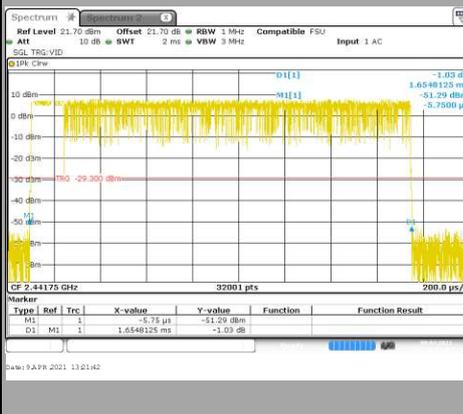
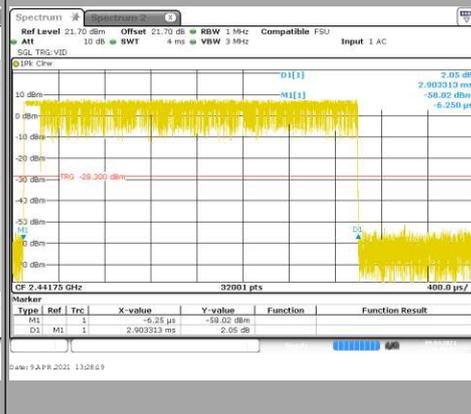
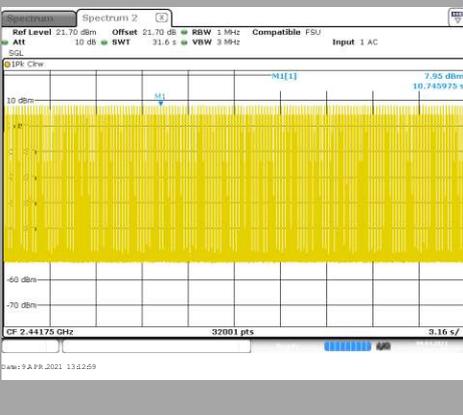
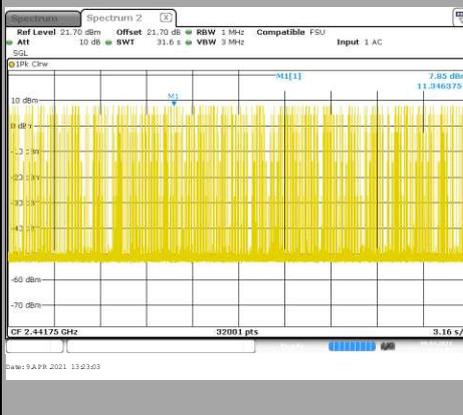
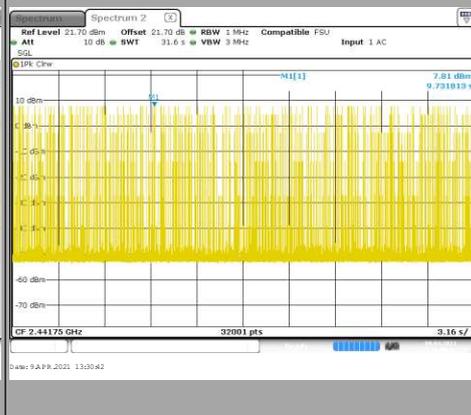
DESCRIPTION	MANUFACTURER	MODEL	N° LCIE	Cal_Date	Cal_Due
EMI receiver	ROHDE & SCHWARZ	ESR7	A2642026	2019/07	2021/07
Multimeter	KEITHLEY	2000	A1242090	2019/05	2021/05
Power supply	KIKUSUI	PCR500M	A7040079	See Multimeter	See Multimeter
Cable + Attenuateur 20dB	PASTERNAK	PE350-150CM	A5329973	2020/08	2021/08
Load 50 ohms	TELEGARTNER	-	A7150105	2019/04	2021/04
Load 50 ohms	TELEGARTNER	-	A7150104	2019/04	2021/04

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

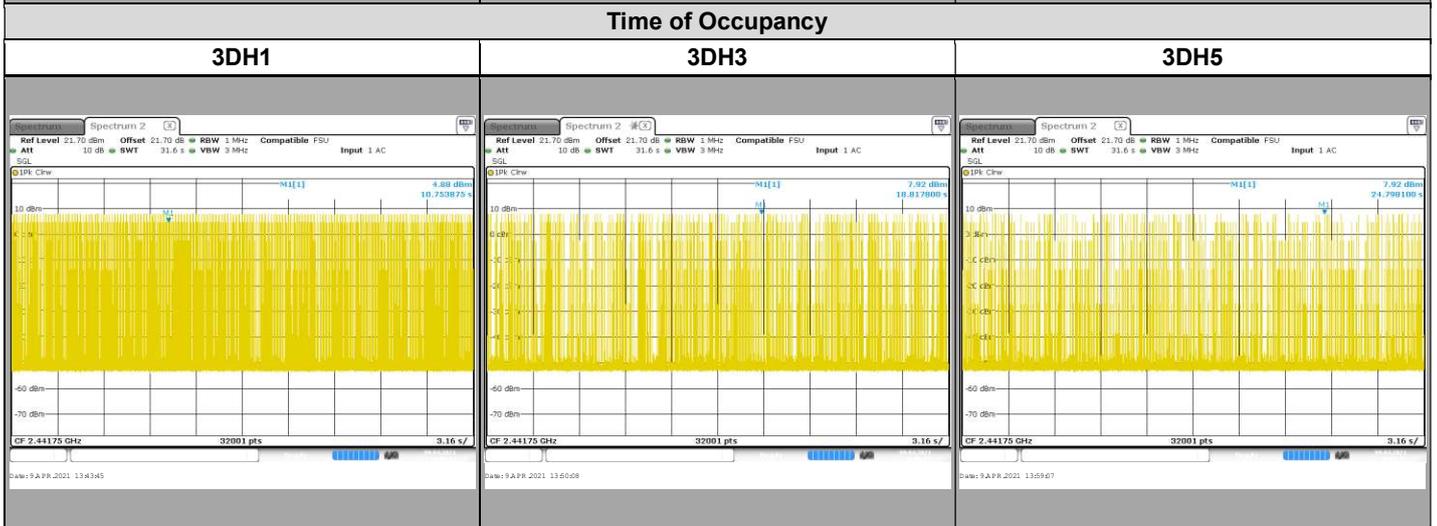
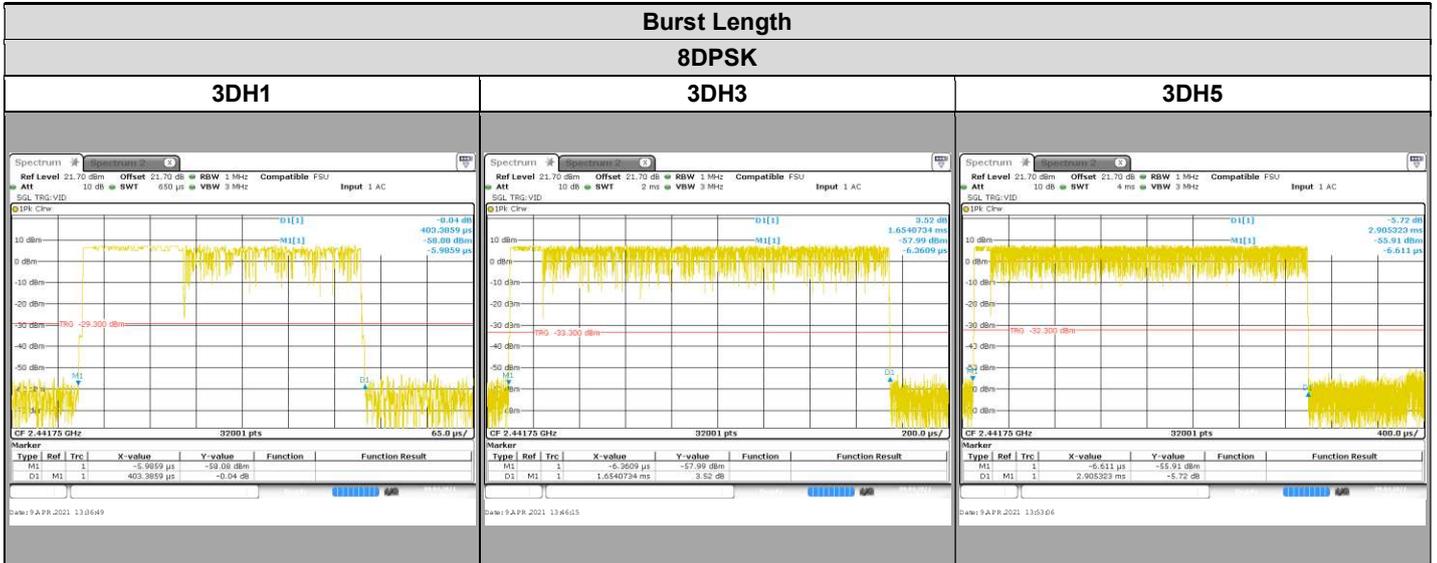
## 7.5. RESULTS

Burst Length																																																																			
GFSK																																																																			
DH1	DH3	DH5																																																																	
 <p>Ref Level 16.00 dBm Offset 21.70 dB RBW 1 MHz Compatible FSU Input 1 AC ATT 10 dB SWT 500 µs VBW 3 MHz SQL TRG-VID DIPK Ctrv M1[1] -45.60 dBm M2[1] -359.4 ms M3[1] 2.68 dB M4[1] 384.3906 µs RFG -21.000 dBm CF 2.44175 GHz 32001 pts 58.0 µs/</p> <table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-value</th> <th>Y-value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td>1</td> <td></td> <td>-359.4 ms</td> <td>-45.60 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>384.3906 µs</td> <td>2.68 dB</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 9/19/2021 11:23:44</p>	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1		-359.4 ms	-45.60 dBm			M2	1		384.3906 µs	2.68 dB			 <p>Ref Level 21.70 dBm Offset 21.70 dB RBW 3 MHz Compatible FSU Input 1 AC ATT 10 dB SWT 2.5 ms VBW 3 MHz SQL TRG-VID DIPK Ctrv M1[1] 0.59 dB M2[1] 1.6485625 ms M3[1] -34.84 dBm M4[1] -6.8625 µs RFG -25.300 dBm CF 2.44175 GHz 32001 pts 250.0 µs/</p> <table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-value</th> <th>Y-value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td>1</td> <td></td> <td>-6.8625 µs</td> <td>-34.84 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>1.6485625 ms</td> <td>0.53 dB</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 9/19/2021 11:56:05</p>	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1		-6.8625 µs	-34.84 dBm			M2	1		1.6485625 ms	0.53 dB			 <p>Ref Level 21.70 dBm Offset 21.70 dB RBW 1 MHz Compatible FSU Input 1 AC ATT 10 dB SWT 4 ms VBW 3 MHz SQL TRG-VID DIPK Ctrv M1[1] -5.77 dBm M2[1] 2.896750 ms M3[1] -46.90 dBm M4[1] -5.750 µs RFG -21.000 dBm CF 2.44175 GHz 32001 pts 400.0 µs/</p> <table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-value</th> <th>Y-value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td>1</td> <td></td> <td>-5.75 µs</td> <td>-46.90 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>2.89675 ms</td> <td>-5.77 dB</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 9/19/2021 11:52:02</p>	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1		-5.75 µs	-46.90 dBm			M2	1		2.89675 ms	-5.77 dB				
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Packet Type	Burst Length (ms)	Number of Hopping during Time of Occupancy	Time of Occupancy (ms)	Limit of Time of Occupancy (ms)																																																															
DH1	0.3844	329	126.4676	400																																																															
DH3	1.6486	168	276.9648	400																																																															
DH5	2.8967	102	295.4634	400																																																															

**Note:** Period of 31.6 seconds (79 channels x 0.4)

<b>Burst Length</b>				
<b><math>\pi/4</math> DQPSK</b>				
<b>2DH1</b>	<b>2DH3</b>	<b>2DH5</b>		
				
<b>Time of Occupancy</b>				
<b>2DH1</b>	<b>2DH3</b>	<b>2DH5</b>		
				
Packet Type	Burst Length (ms)	Number of Hopping during Time of Occupancy	Time of Occupancy (ms)	Limit of Time of Occupancy (ms)
2DH1	0.40294	322	129.7459	400
2DH3	1.6548	151	249.8748	400
2DH5	2.9033	103	299.0399	400

**Note:** Period of 31.6 seconds (79 channels x 0.4)



Packet Type	Burst Length (ms)	Number of Hopping during Time of Occupancy	Time of Occupancy (ms)	Limit of Time of Occupancy (ms)
DH1	0.4034	309	124.6462	400
DH3	1.6541	156	258.0396	400
DH5	2.9053	99	287.6247	400

**Note:** Period of 31.6 seconds (79 channels x 0.4)

## 7.6. CONCLUSION

Time of Occupancy measurement performed on the sample of the product **TECHNICOLOR UIW4059MIL**, SN: **LAB3-V0 nr.030**, in configuration and description presented in this test report, show levels **compliant** to the **47 CFR PART 15.247 & RSS-GEN ISSUE 5** limits.

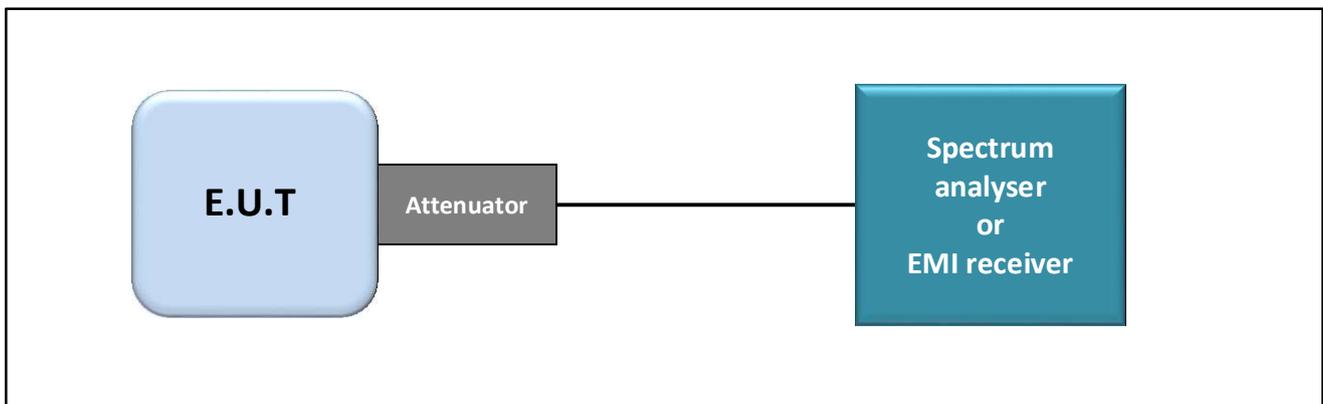
## 8. DUTY CYCLE

### 8.1. TEST CONDITIONS

Test performed by : Armand MAHOUNGOU  
Date of test : April 8, 2021  
Ambient temperature : 27°C  
Relative humidity : 46%

### 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:
  - ANSI C63.10 § 11.6



Test set up of Duty Cycle



Photograph for Duty Cycle

### 8.3. LIMIT

None

### 8.4. TEST EQUIPMENT LIST

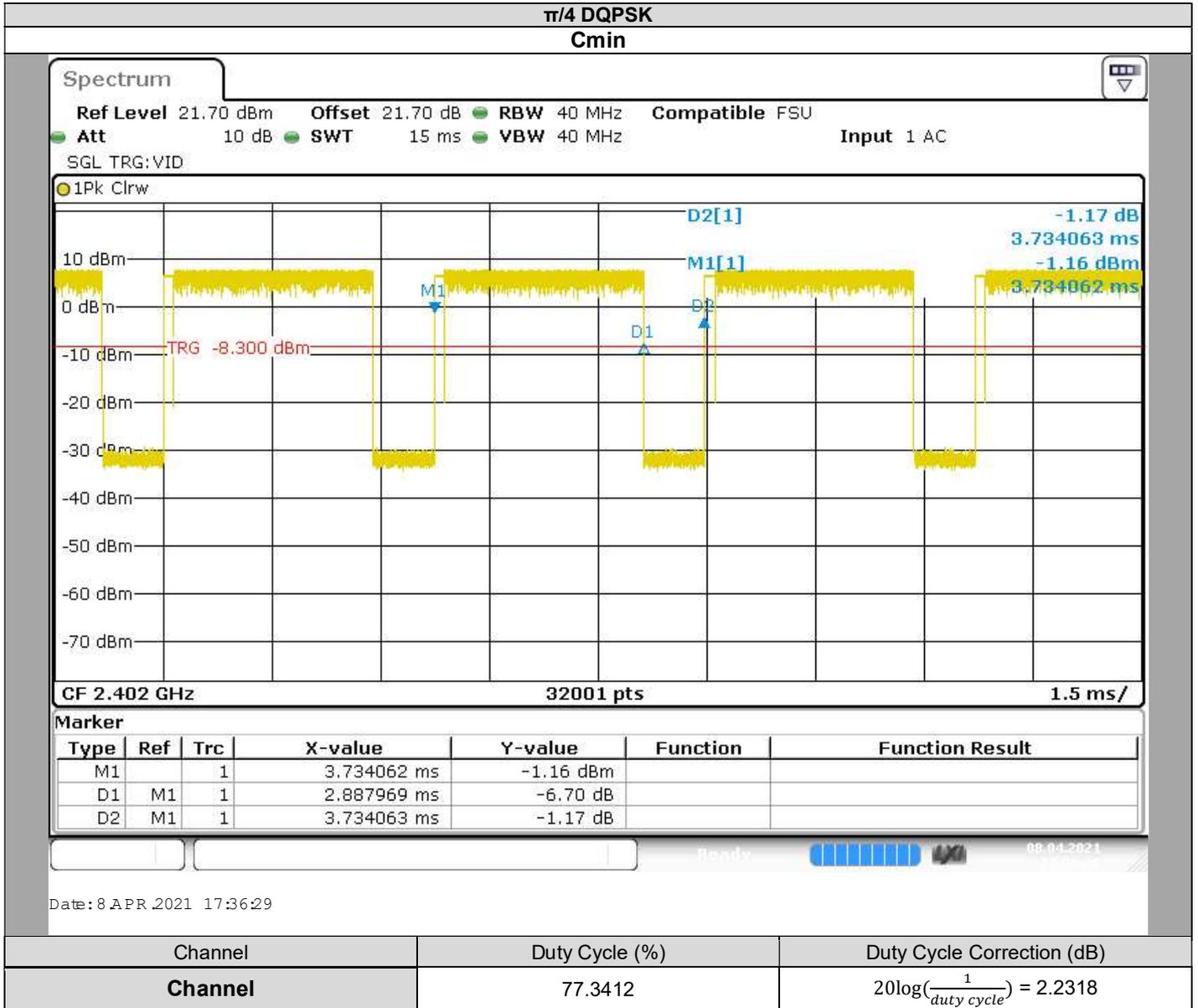
DESCRIPTION	MANUFACTURE R	MODEL	N° LCIE	Cal_Date	Cal_Due
EMI receiver	ROHDE & SCHWARZ	ESR7	A2642026	2019/07	2021/07
Multimeter	KEITHLEY	2000	A1242090	2019/05	2021/05
Power supply	KIKUSUI	PCR500M	A7040079	See Multimeter	See Multimeter
Cable + Attenuateur 20dB	PASTERNAK	PE350-150CM	A5329973	2020/08	2021/08
Load 50 ohms	TELEGARTNER	-	A7150105	2019/04	2021/04
Load 50 ohms	TELEGARTNER	-	A7150104	2019/04	2021/04

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



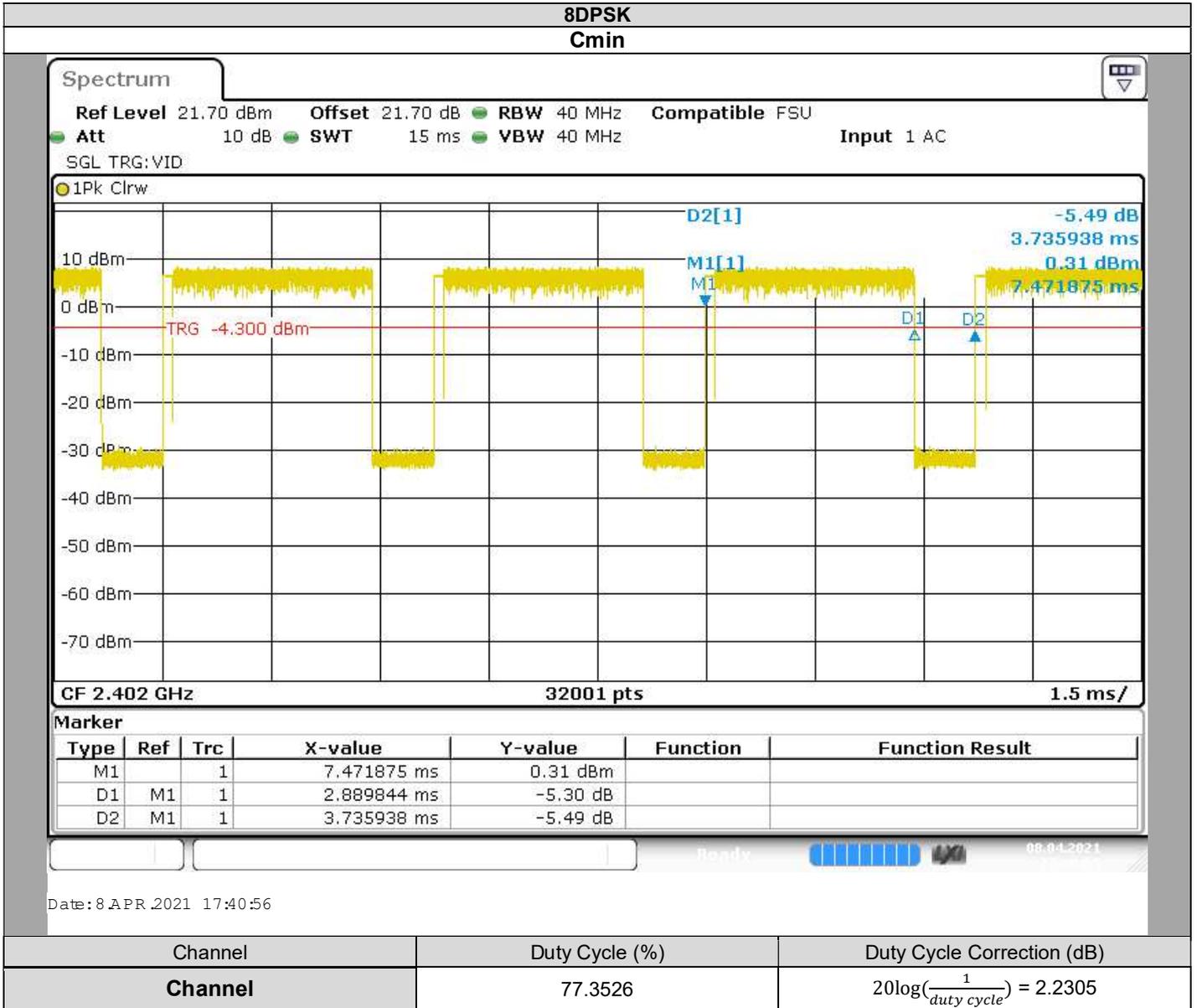


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## 8.6. CONCLUSION

Duty Cycle measurement performed on the sample of the product **TECHNICOLOR UIW4059MIL**, SN: **LAB3-V0 nr.030**, in configuration and description presented in this test report, show levels **compliant** to the **47 CFR PART 15.247 & RSS 247 ISSUE 2** limits.

## 9. MAXIMUM CONDUCTED OUTPUT POWER

### 9.1. TEST CONDITIONS

Test performed by : Armand MAHOUNGOU  
Date of test : April 8, 2021  
Ambient temperature : 26°C  
Relative humidity : 45%

### 9.2. TEST SETUP

- The Equipment Under Test is installed:

- On a table
- In an anechoic chamber

- Measurement is performed with a spectrum analyzer in:

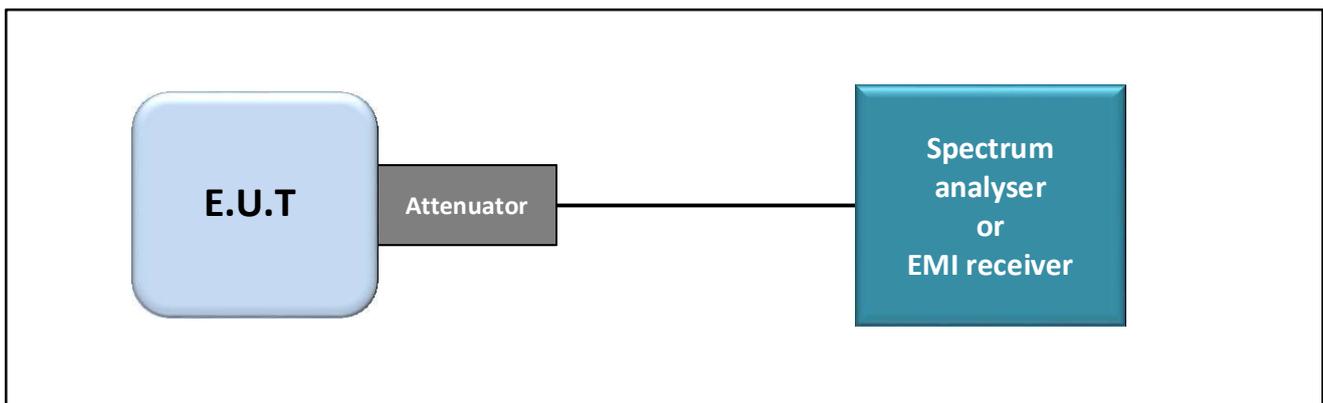
- Conducted Method
- Radiated Method

- Test Procedure:

- ANSI C63.10 § 7.8.5

**Measurement Procedure:**

- a) 1) Span: Approximately five times the 20 dB bandwidth, centered on a hopping channel.
- b) 2) RBW > 20 dB bandwidth of the emission being measured.
- c) 3) VBW  $\geq$  RBW.
- d) 4) Sweep: Auto.
- e) 5) Detector function: Peak.
- f) 6) Trace: Max hold.



Test set up of Maximum Conducted Output Power



Photograph for Maximum Conducted Output Power

### 9.3. LIMIT

Frequency range	Maximum Conducted Output Power
2400MHz to 2483.5MHz	≤21dBm*

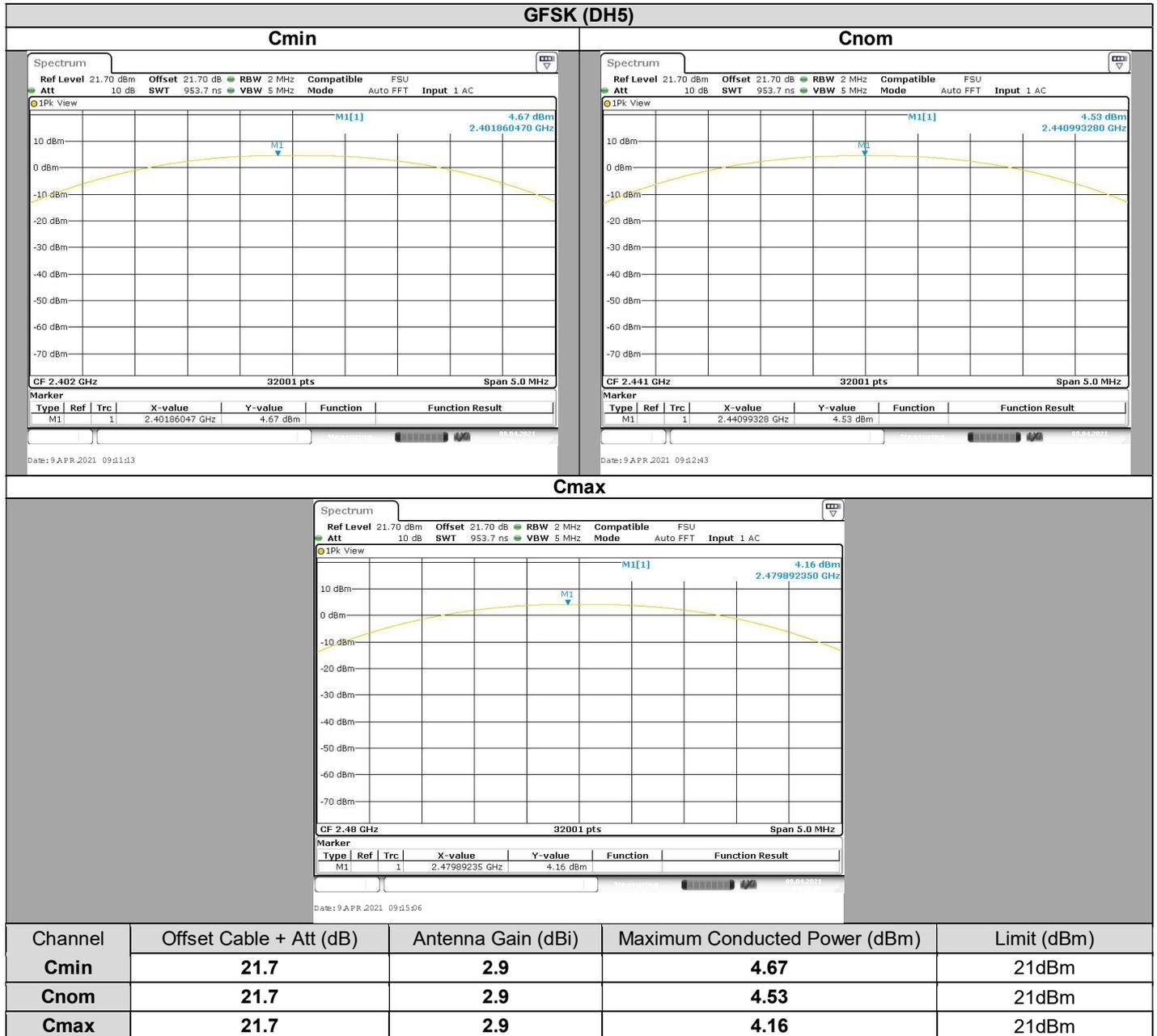
\*Remark: Limits are reduced by G-6dBi if Overall Antenna Gain above 6dBi

### 9.4. TEST EQUIPMENT LIST

DESCRIPTION	MANUFACTURER	MODEL	N° LCIE	Cal_Date	Cal_Due
EMI receiver	ROHDE & SCHWARZ	ESR7	A2642026	2019/07	2021/07
Multimeter	KEITHLEY	2000	A1242090	2019/05	2021/05
Power supply	KIKUSUI	PCR500M	A7040079	See Multimeter	See Multimeter
Cable + Attenuateur 20dB	PASTERNAK	PE350-150CM	A5329973	2020/08	2021/08
Load 50 ohms	TELEGARTNER	-	A7150105	2019/04	2021/04
Load 50 ohms	TELEGARTNER	-	A7150104	2019/04	2021/04

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

## 9.5. RESULTS



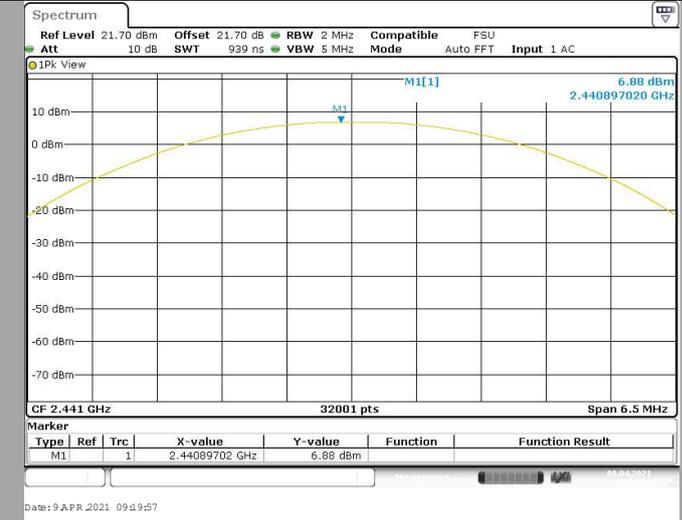
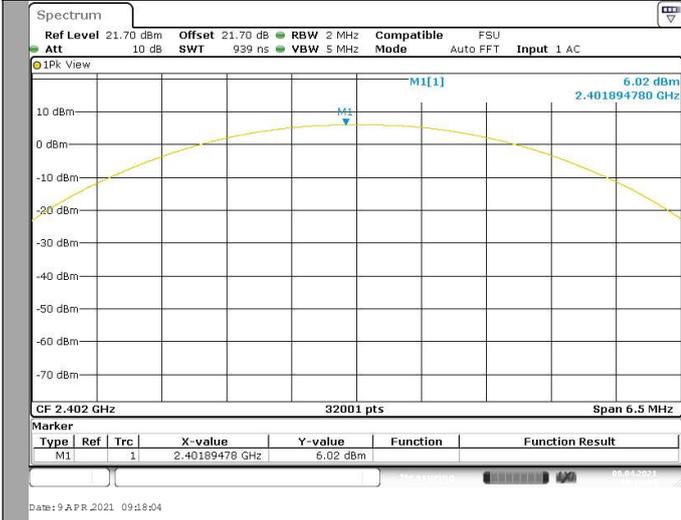


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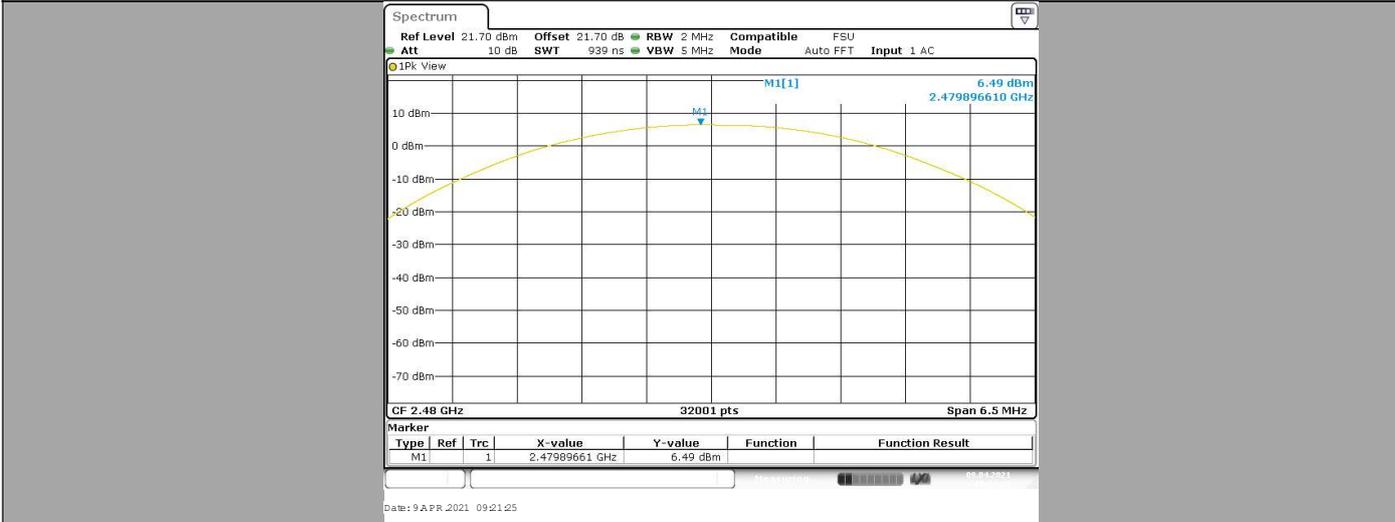
$\pi/4$  DQPSK (2-DH5)

**Cmin**

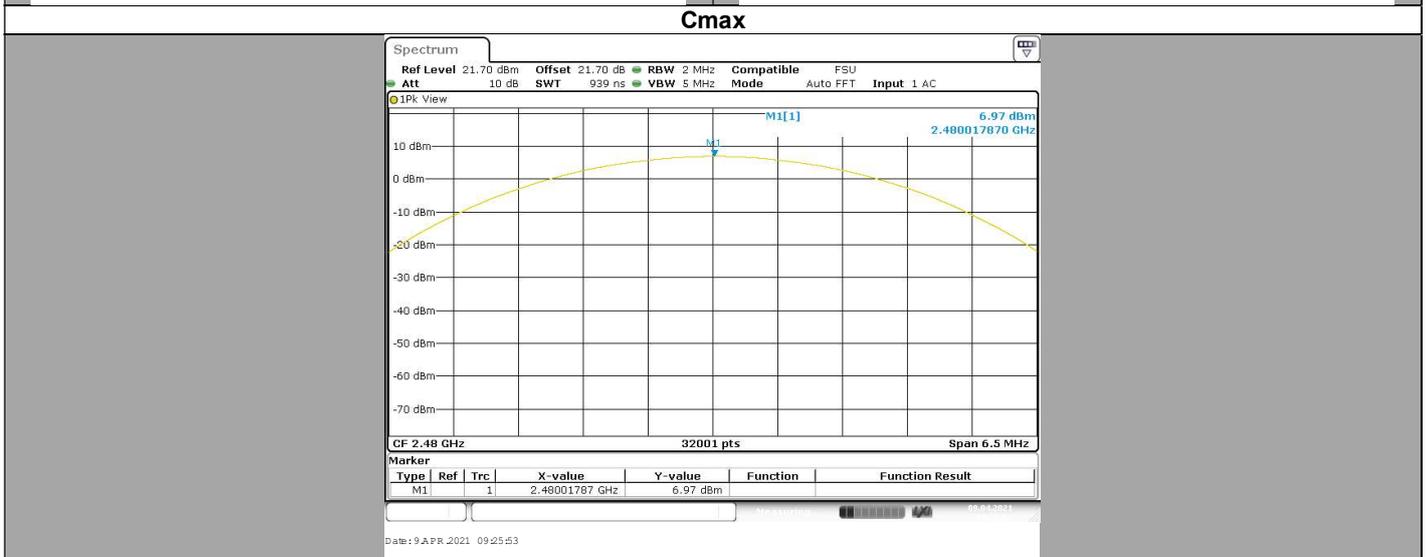
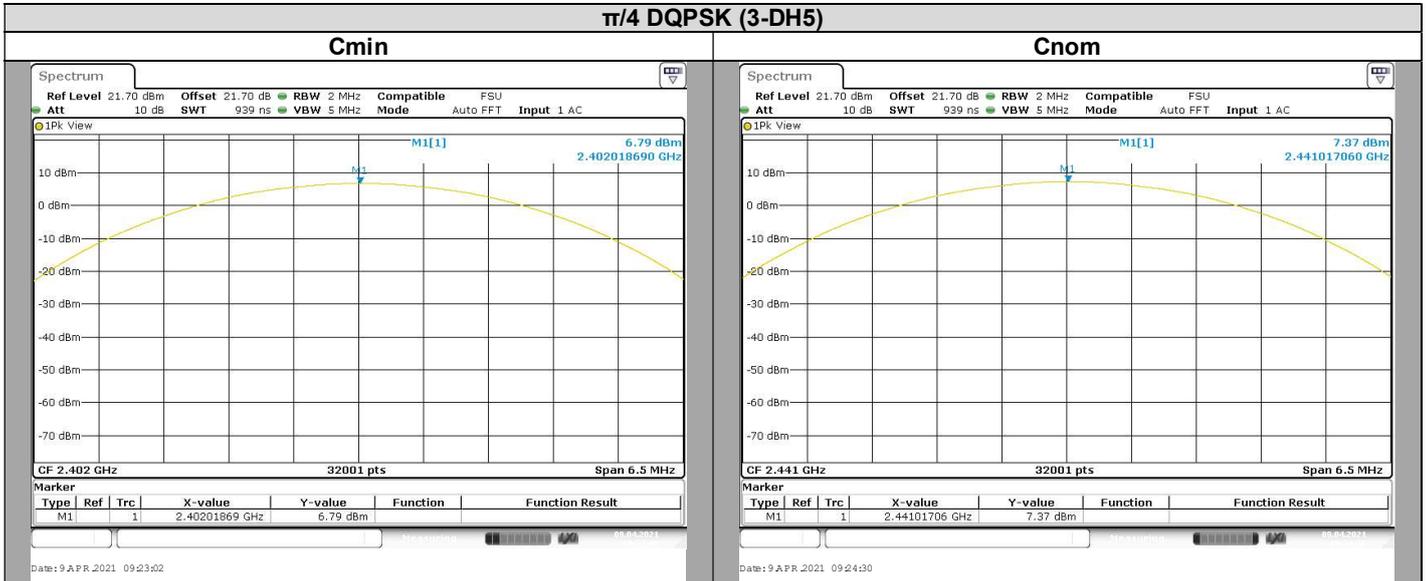
**Cnom**



**Cmax**



Channel	Offset Cable + Att (dB)	Antenna Gain (dBi)	Maximum Conducted Power (dBm)	Limit (dBm)
<b>Cmin</b>	<b>21.7</b>	<b>2.9</b>	<b>6.02</b>	21dBm
<b>Cnom</b>	<b>21.7</b>	<b>2.9</b>	<b>6.88</b>	21dBm
<b>Cmax</b>	<b>21.7</b>	<b>2.9</b>	<b>6.49</b>	21dBm



Channel	Offset Cable + Att (dB)	Antenna Gain (dBi)	Maximum Conducted Power (dBm)	Limit (dBm)
<b>Cmin</b>	<b>21.7</b>	<b>2.9</b>	<b>6.79</b>	21dBm
<b>Cnom</b>	<b>21.7</b>	<b>2.9</b>	<b>7.37</b>	21dBm
<b>Cmax</b>	<b>21.7</b>	<b>2.9</b>	<b>6.97</b>	21dBm

## 9.6. CONCLUSION

Maximum Conducted Output Power measurement performed on the sample of the product **TECHNICOLOR UIW4059MIL**, SN: **LAB3-V0 nr.030**, 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 MAHOUGOU  
Date of test : April 8, 2021  
Ambient temperature : 26°C  
Relative humidity : 45%

### 10.2. TEST SETUP

- The Equipment Under Test is installed:

- On a table
- In an anechoic chamber

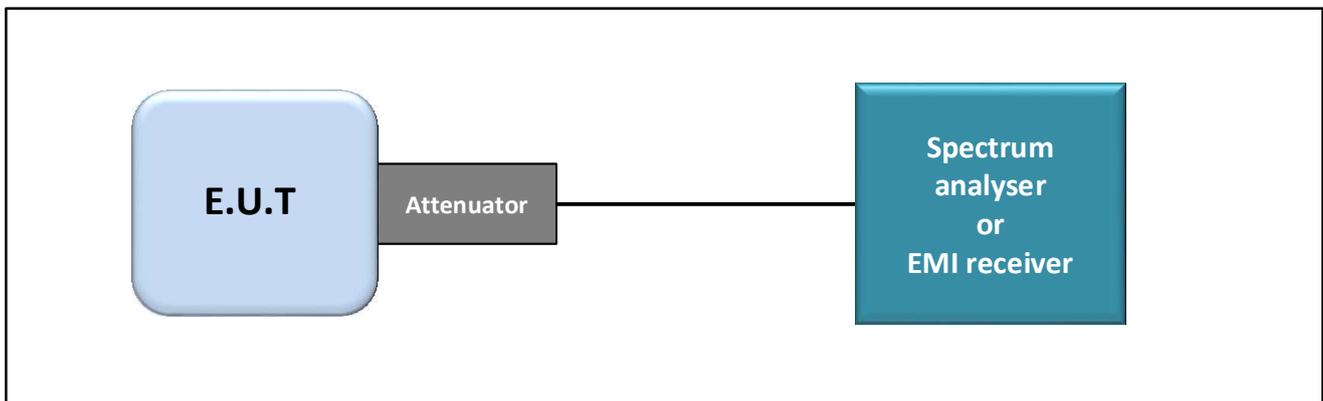
- Measurement is performed with a spectrum analyzer in:

- Conducted Method
- Radiated Method

Packet type: 1-DH5 / 2-DH5 / 3-DH5 Worst case presented

- Test Procedure:

- ANSI C63.10 § 7.8.6



Test set up of Unwanted Emissions into Non-Restricted Frequency Bands at the Band Edge



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

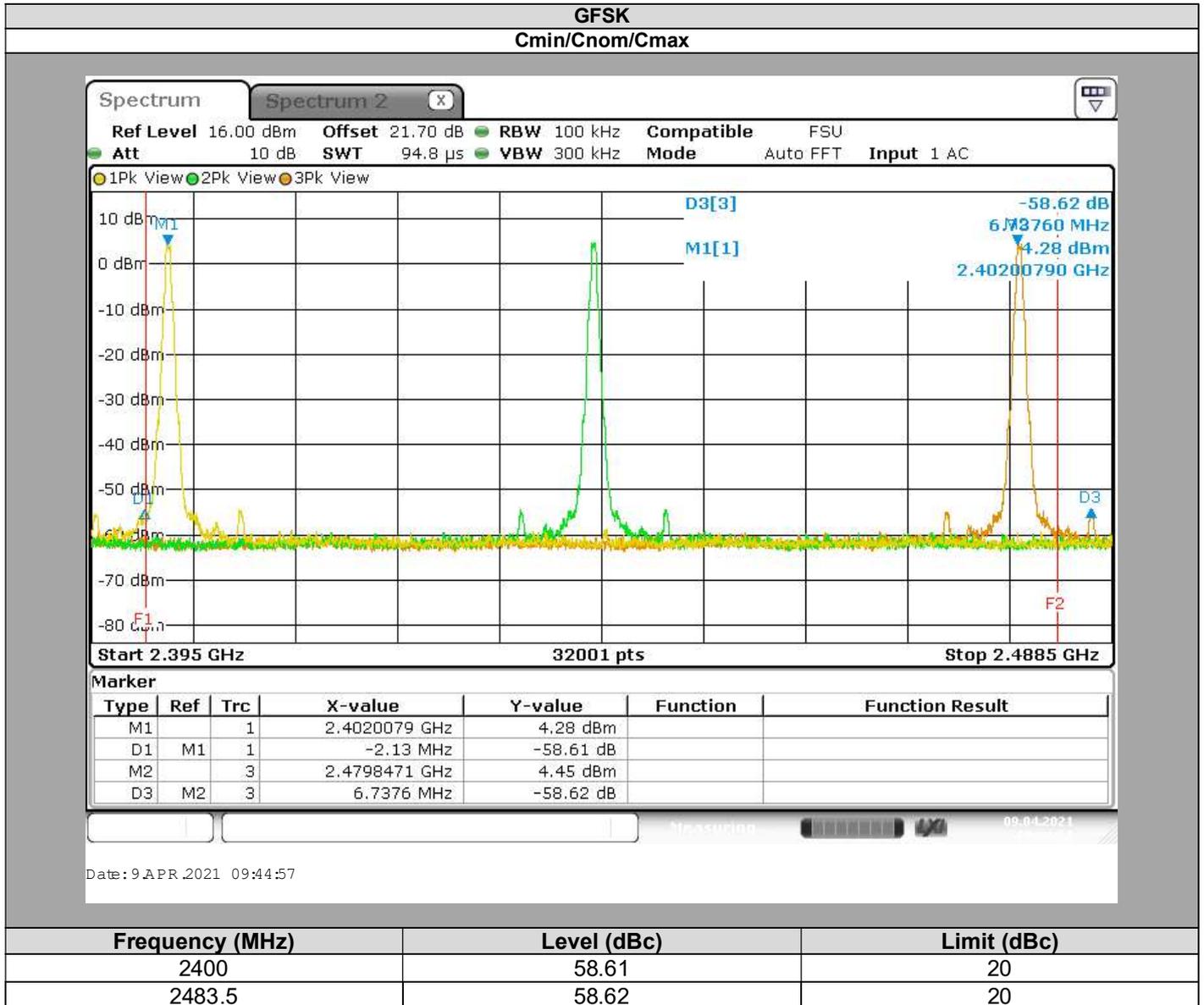
DESCRIPTION	MANUFACTURE R	MODEL	N° LCIE	Cal_Date	Cal_Due
EMI receiver	ROHDE & SCHWARZ	ESR7	A2642026	2019/07	2021/07
Multimeter	KEITHLEY	2000	A1242090	2019/05	2021/05
Power supply	KIKUSUI	PCR500M	A7040079	See Multimeter	See Multimeter
Cable + Attenuateur 20dB	PASTERNAK	PE350-150CM	A5329973	2020/08	2021/08
Load 50 ohms	TELEGARTNER	-	A7150105	2019/04	2021/04
Load 50 ohms	TELEGARTNER	-	A7150104	2019/04	2021/04

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



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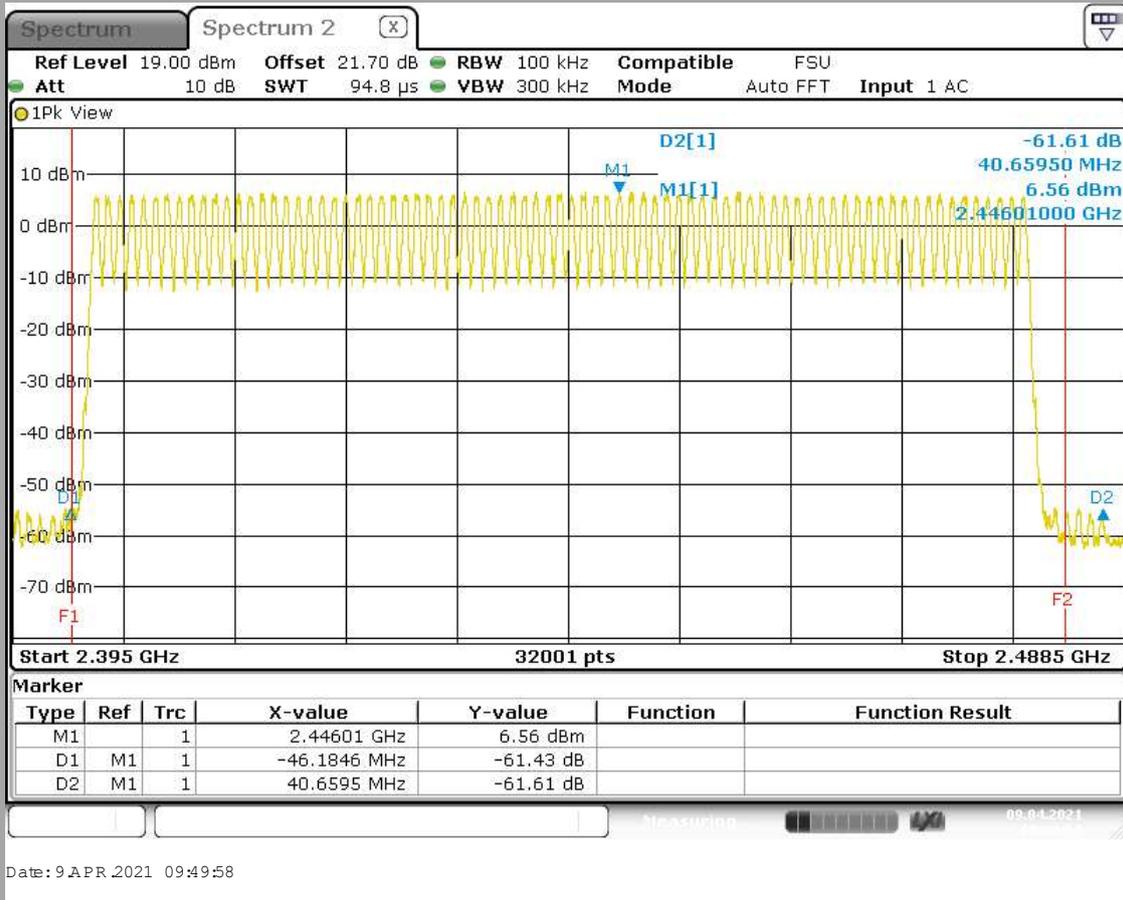
10.5. RESULTS





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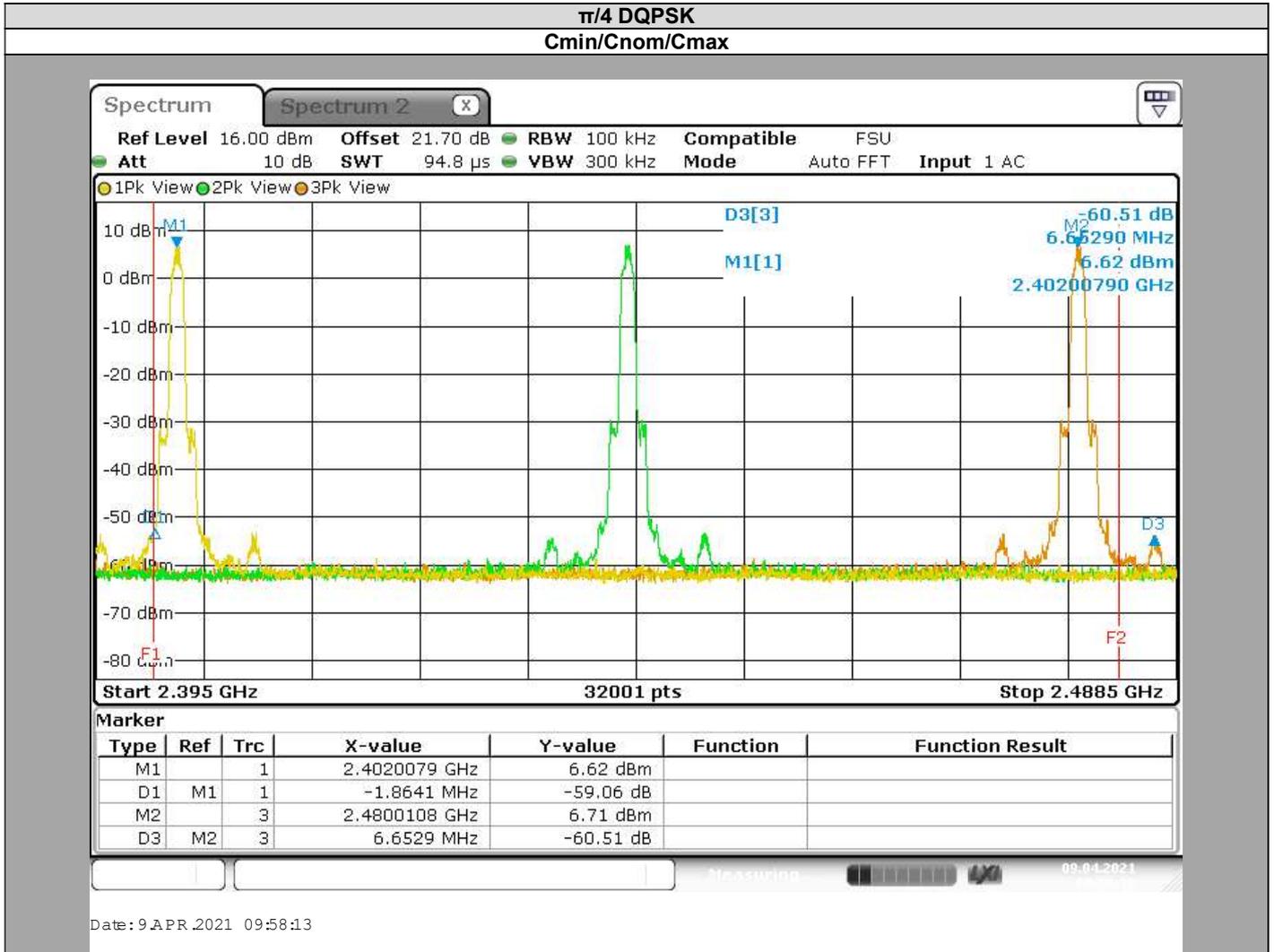
**GFSK**  
**Call**



Frequency (MHz)	Level (dBc)	Limit (dBc)
2400	61.43	20
2483.5	61.61	20



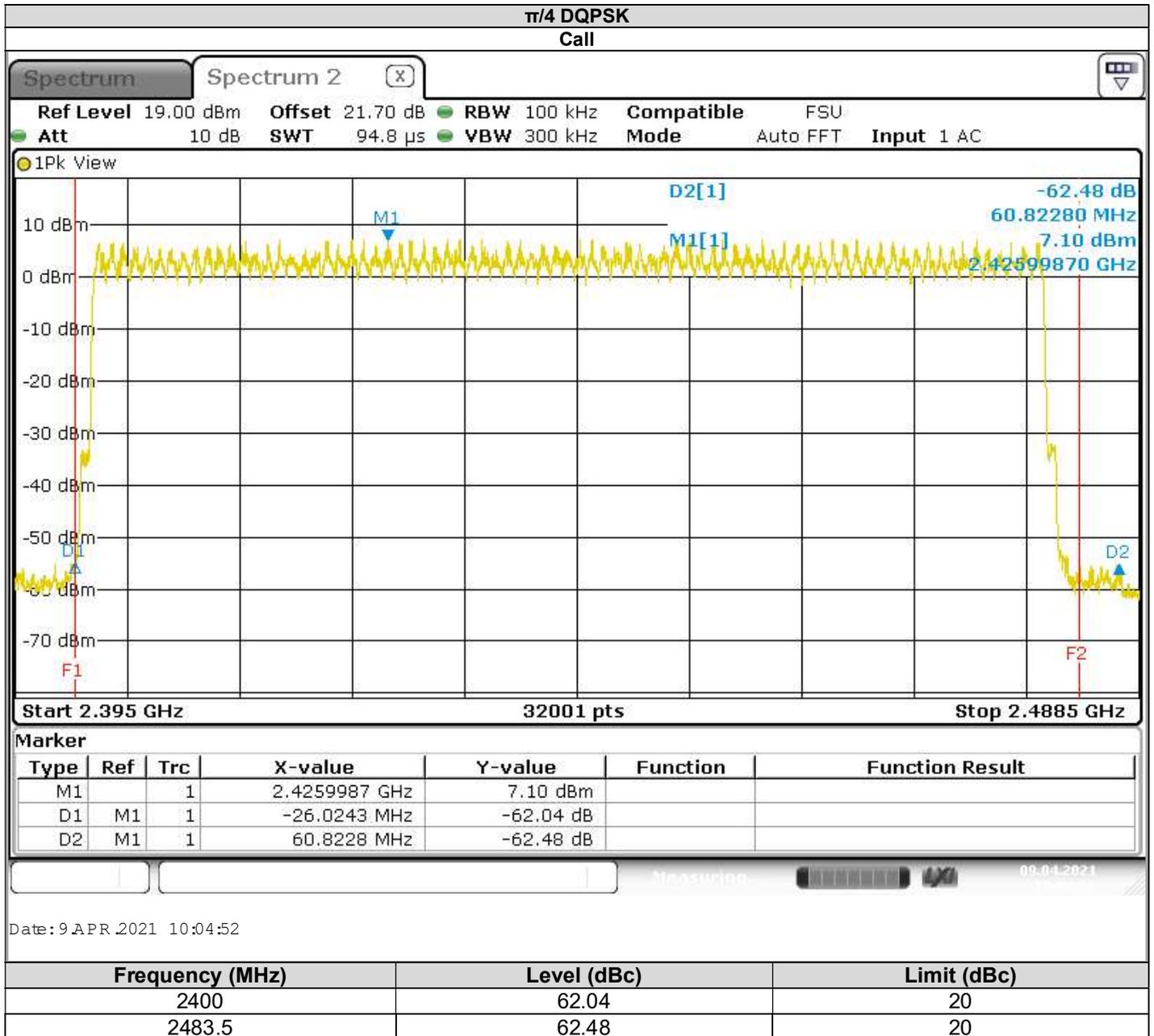
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Frequency (MHz)	Level (dBc)	Limit (dBc)
2400	59.06	20
2483.5	60.51	20

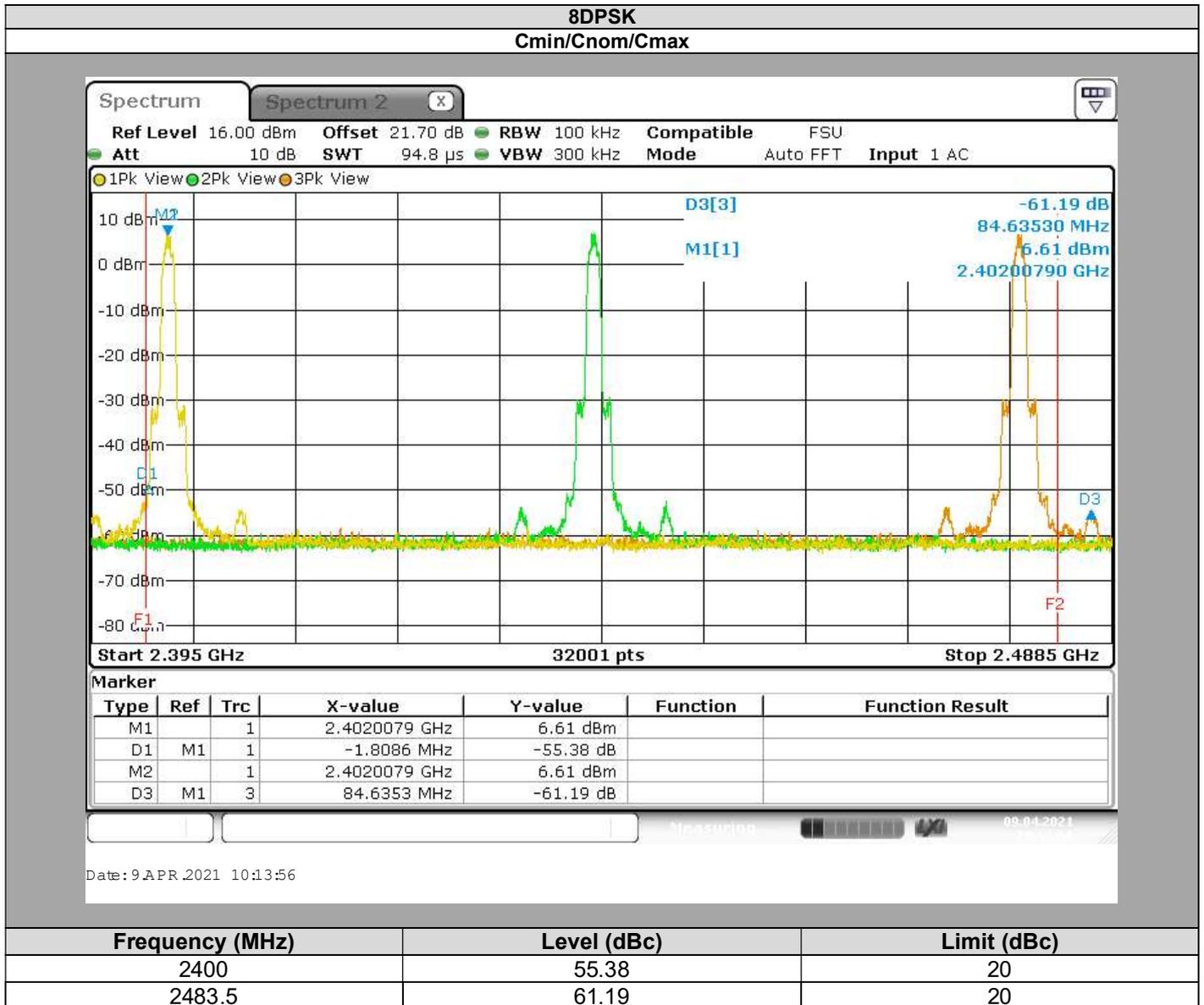


L C I E





L C I E

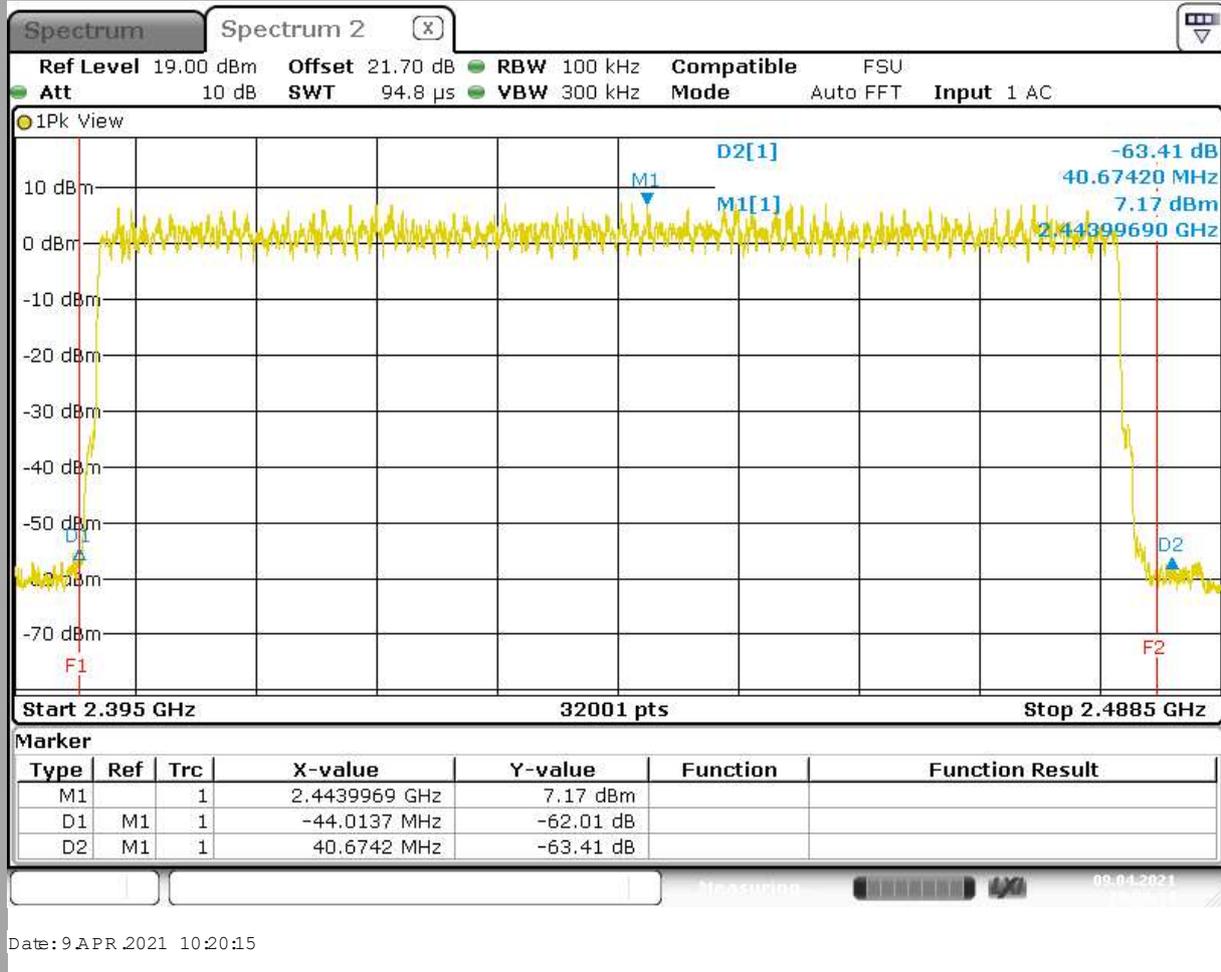




L C I E

8DPSK

Call



Date: 9 APR 2021 10:20:15

Frequency (MHz)	Level (dBc)	Limit (dBc)
2400	62.01	20
2483.5	63.41	20

10.6. CONCLUSION

Unwanted Emission into non-restricted frequency bands at the band edge measurement performed on the sample of the product **TECHNICOLOR UIW4059MIL**, SN: **LAB3-V0 nr.030**, 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 : Julien Palard  
Date of test : April 16, 2021  
Ambient temperature : 25 °C  
Relative humidity : 32 %

### 11.2. TEST SETUP

- The Equipment under Test is installed:

- On a table
- In an anechoic chamber

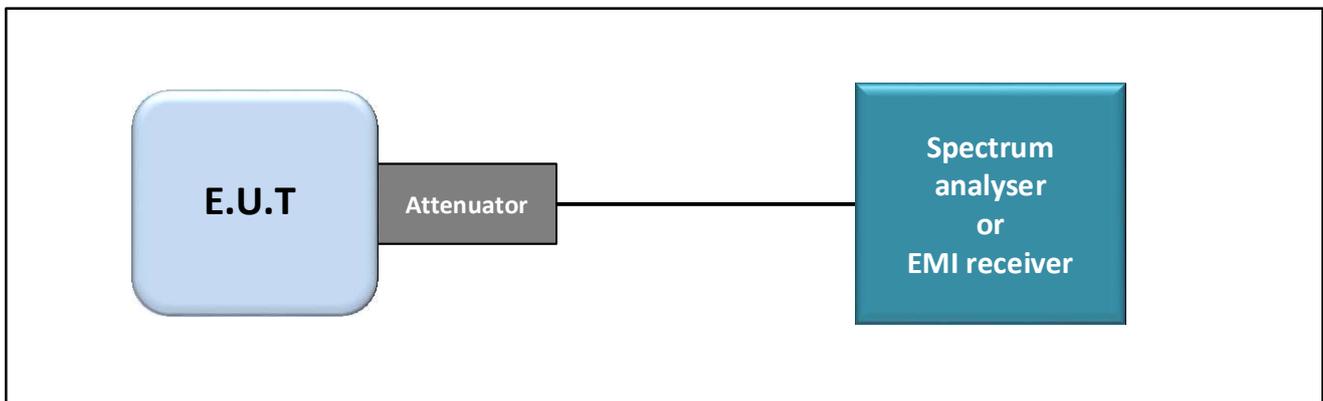
- Measurement is performed with a spectrum analyzer in:

- Conducted Method
- Radiated Method

Packet type: 1-DH5 / 2-DH5 / 3-DH5 Worst case presented

- Test Procedure:

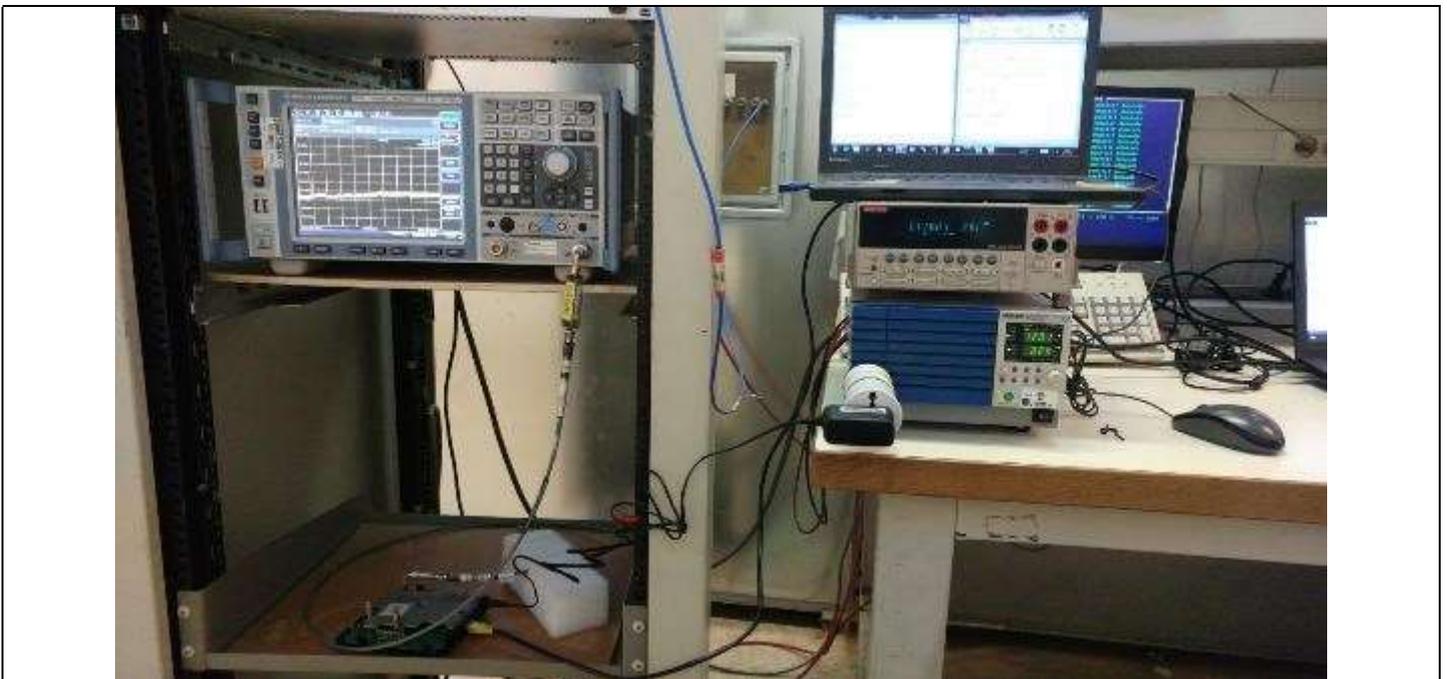
- ANSI C63.10 § 7.8.8



Test set up of Unwanted Emissions into Non-Restricted Frequency Bands



Photograph for Unwanted Emission into non-restricted frequency bands



Photograph for Unwanted Emission into non-restricted frequency bands



### 11.3. LIMIT

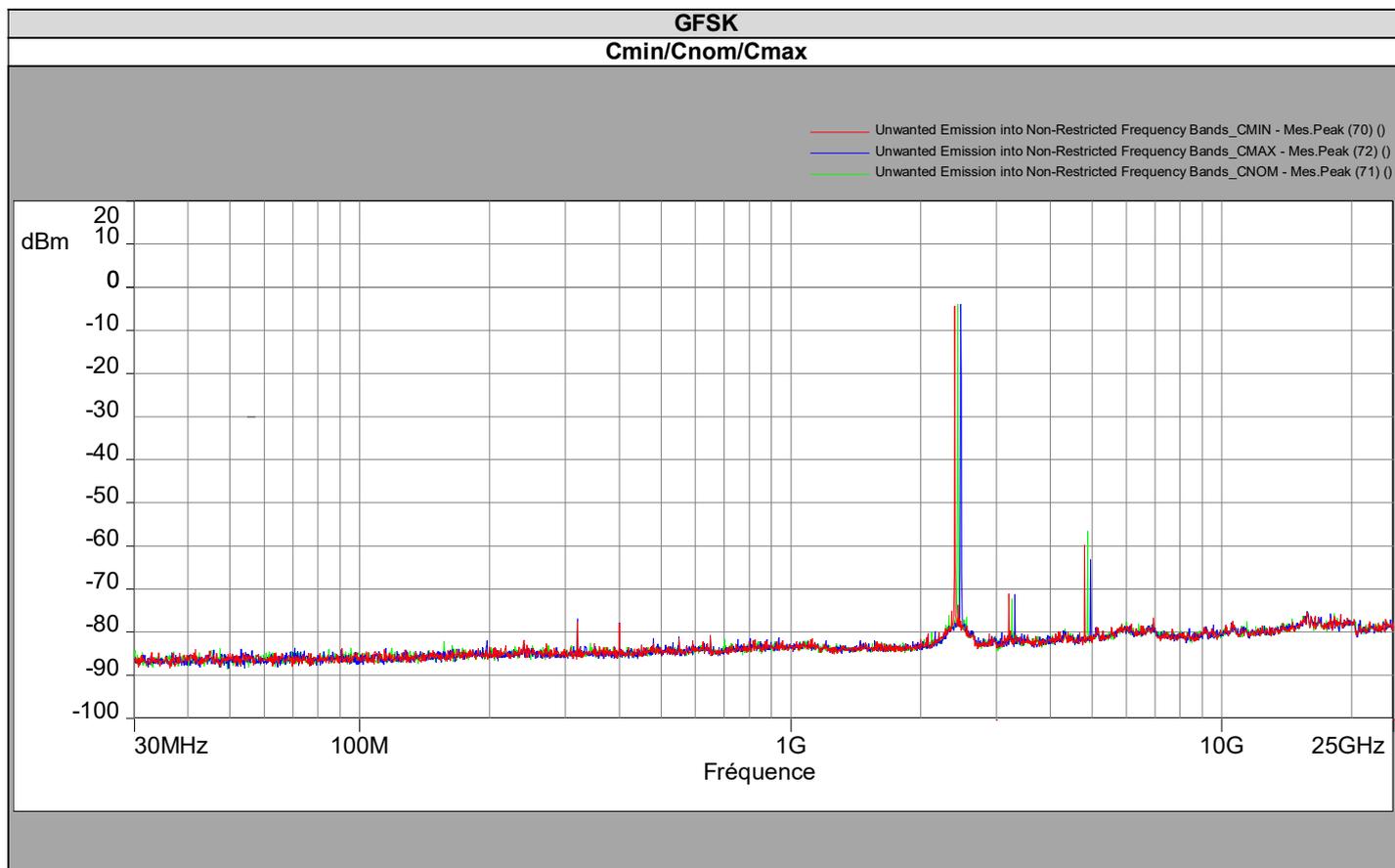
All Spurious Emissions must be at least 20 below the Fundamental Radiator Level

### 11.4. TEST EQUIPMENT LIST

DESCRIPTION	MANUFACTURER	MODEL	N° LCIE	Cal_Date	Cal_Due
EMI receiver	ROHDE & SCHWARZ	FSV40GHz	A4060061	2019/05	2021/05
Cable S36 chamber	PASTERNAK	PE360-1500CM	A5329940	2021/02	2022/02
Attenuator 3dB Cable Spurious Conducted	-	WA54-3-12	A7122223	2019/02	2020/02
Load 50 ohms	TELEGARTNER	-	A7150105	2019/04	2021/04
Load 50 ohms	TELEGARTNER	-	A7150104	2019/04	2021/04
High Pass Filter 2,4GHz	WAINWRIGHT	WHK12-2494	A7484068	2019/07	2021/07
Multimeter	KEITHLEY	2000	A1242090	2019/05	2021/05
Power supply	KIKUSUI	PCR500M	A7040079	See Multimeter	See Multimeter

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

## 11.5. RESULTS



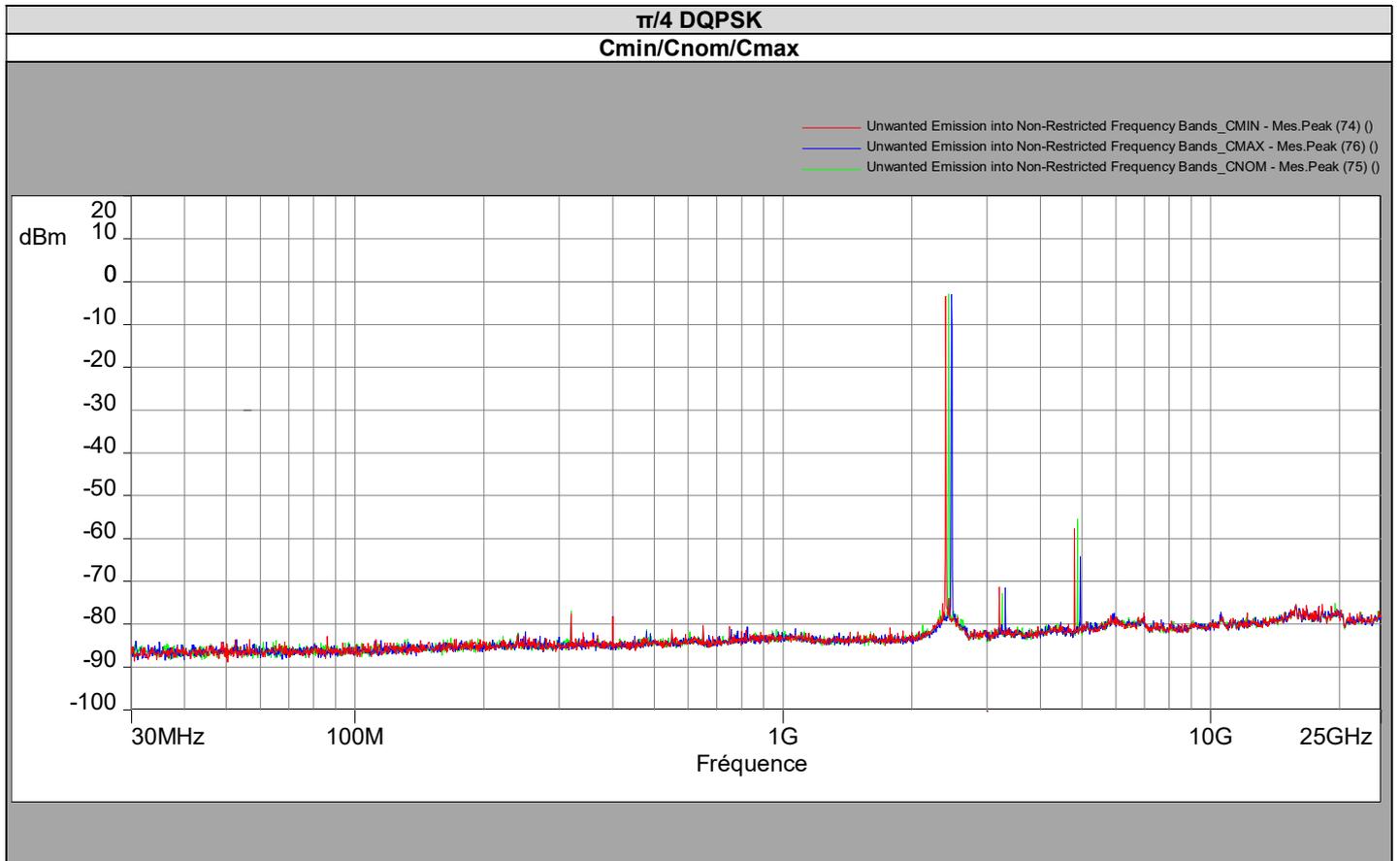


L C I E

GFSK			
Frequency (MHz)	Level (dBm)	Level (dBc)	Limit (dBc)
<b>2402</b>	<b>-4,4</b>		
320	-77,7	73,3	20
400	-78,0	73,6	20
550	-81,5	77,1	20
650	-80,8	76,4	20
2082	-80,3	75,9	20
3202	-71,2	66,8	20
4804	-59,8	55,4	20
<b>2441</b>	<b>-3,9</b>		
320	-77,3	73,4	20
400	-78,6	74,7	20
550	-81,9	78,0	20
650	-81,7	77,8	20
2121	-80,1	76,2	20
3254	-72,4	68,5	20
4882	-56,5	52,6	20
<b>2480</b>	<b>-4,0</b>		
320	-76,9	72,9	20
400	-77,8	73,8	20
550	-81,2	77,2	20
650	-81,2	77,2	20
2160	-79,9	75,9	20
3306	-71,3	67,3	20
4960	-63,3	59,3	20



L C I E



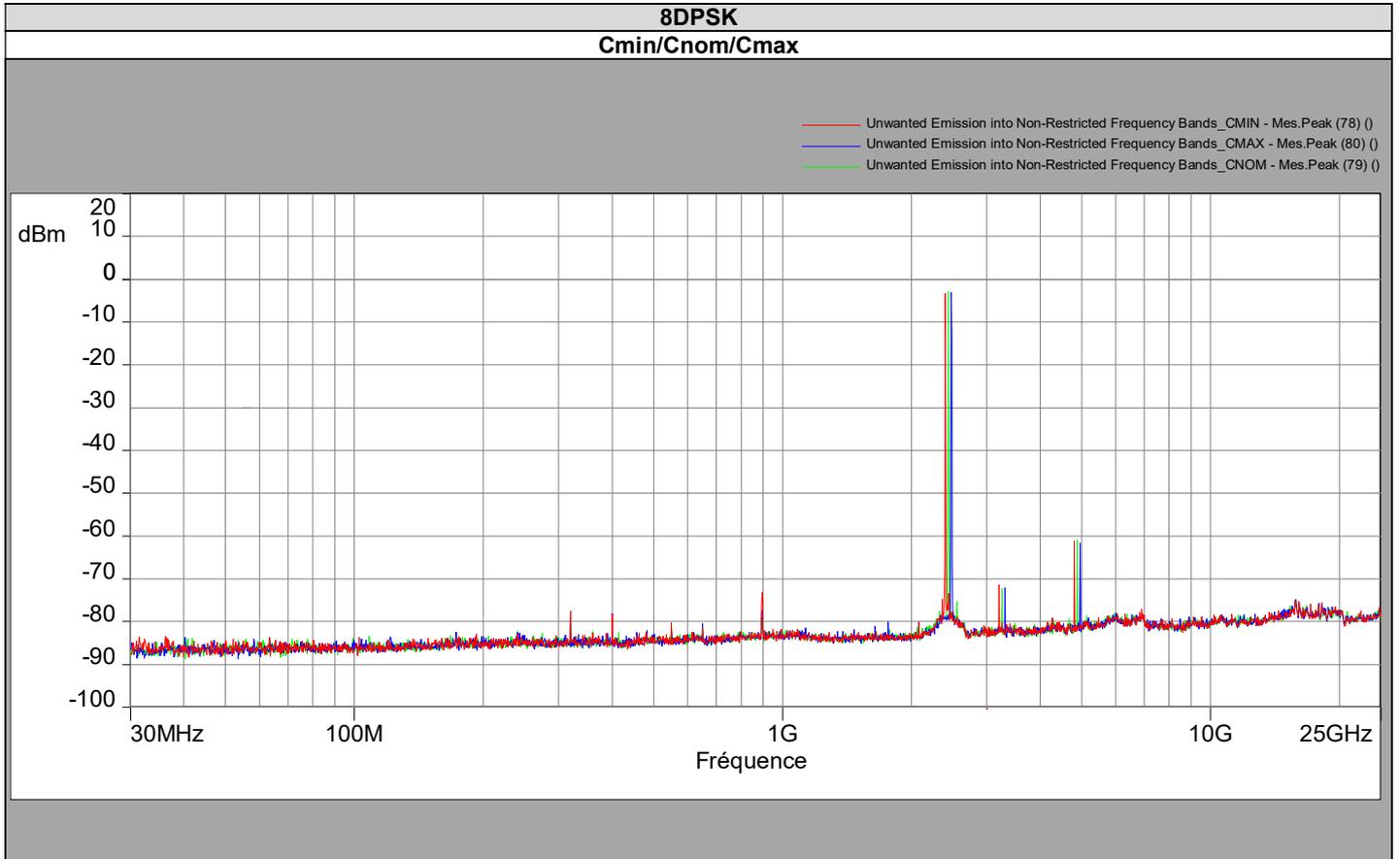


L C I E

$\pi/4$ DQPSK			
Frequency (MHz)	Level (dBm)	Level (dBc)	Limit (dBc)
<b>2402</b>	<b>-3,5</b>		
320	-77,7	74,2	20
400	-78,4	74,9	20
650	-80,3	76,8	20
750	-80,6	77,1	20
1778	-80,9	77,4	20
3202	-71,4	67,9	20
4804	-57,6	54,1	20
<b>2441</b>	<b>-2,9</b>		
320	-77,0	74,1	20
400	-78,5	75,6	20
650	-81,1	78,2	20
750	-81,8	78,9	20
2121	-80,2	77,3	20
3254	-72,8	69,9	20
4882	-55,4	52,5	20
<b>2480</b>	<b>-3,1</b>		
320	-78,0	74,9	20
400	-78,3	75,2	20
650	-80,5	77,4	20
750	-80,6	77,5	20
2077	-81,8	78,7	20
3307	-71,5	68,4	20
4960	-64,3	61,2	20



L C I E



8DPSK			
Frequency (MHz)	Level (dBm)	Level (dBc)	Limit (dBc)
<b>2402</b>	<b>-3,3</b>		
320	-77,4	74,1	20
400	-78,3	75,0	20
550	-80,3	77,0	20
650	-81,4	78,1	20
897	-73,2	69,9	20
2082	-80,1	76,8	20
3202	-71,5	68,2	20
4804	-61,2	57,9	20
<b>2441</b>	<b>-2,8</b>		
320	-77,8	75,0	20
400	-78,3	75,5	20
550	-81,6	78,8	20
650	-80,6	77,8	20
895	-79,1	76,3	20
1780	-81,9	79,1	20
3254	-72,4	69,6	20
4882	-60,9	58,1	20
<b>2480</b>	<b>-3,1</b>		
320	-77,6	74,5	20
400	-78,1	75,0	20
550	-81,8	78,7	20
650	-80,4	77,3	20
897	-77,3	74,2	20
2080	-80,2	77,1	20
3306	-72,2	69,1	20
4960	-61,6	58,5	20

## 11.6. CONCLUSION

Unwanted Emission into non-restricted frequency bands measurement performed on the sample of the product **TECHNICOLOR UIW4059MIL**, SN: **LAB3-V0 nr.030**, 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 : Laurent DENEUX  
 Date of test : April 20, 2021  
 Ambient temperature : 21 °C  
 Relative humidity : 47 %

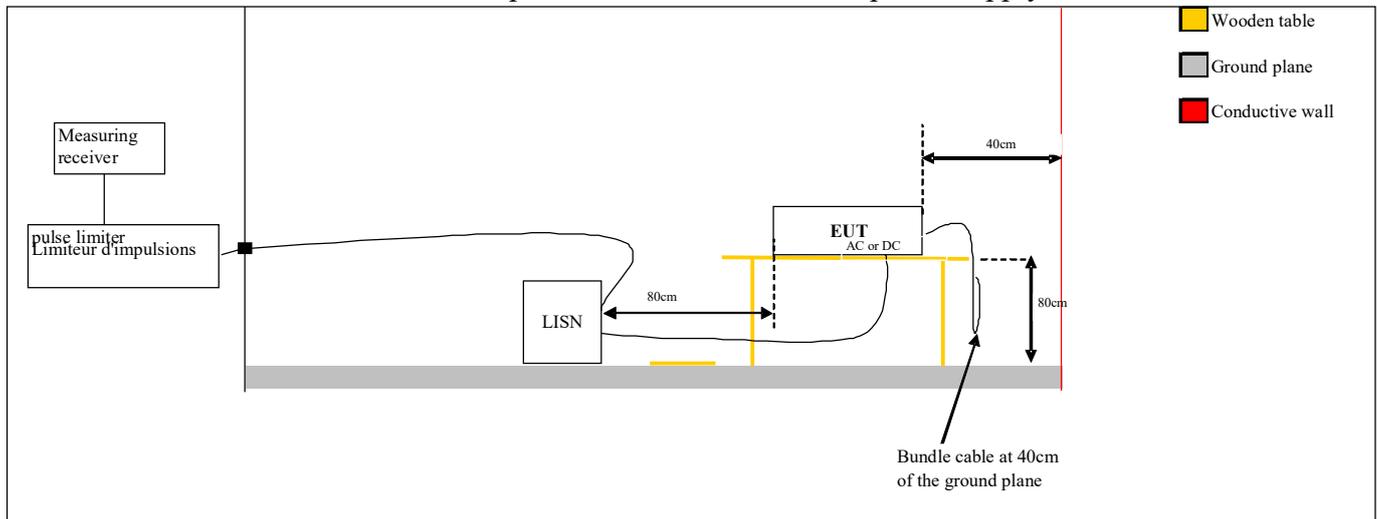
### 12.2. TEST SETUP

The product has been tested according to ANSI C63.10 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.

Voltage table used (for Power Line Conducted Emissions):

Type	Measurement performed:	
<input checked="" type="checkbox"/> AC / <input type="checkbox"/> DC (Auxiliary used)	<input checked="" type="checkbox"/> 120VAC/60Hz	<input checked="" type="checkbox"/> 240VAC/50Hz
<input type="checkbox"/> USB (Laptop auxiliary)	<input type="checkbox"/> 120VAC/60Hz (Laptop auxiliary)	<input type="checkbox"/> 240VAC/50Hz(Laptop auxiliary)

Test set up of conducted emission on power supply





Photograph for AC Power Line Conducted Emission (Front view)



Photograph for AC Power Line Conducted Emission (Rear view)



### 12.3. LIMIT

Frequency range	Level	Detector
0,15kHz to 0,5MHz	66dB $\mu$ V to 56 $\mu$ V*	QPeak
	56dB $\mu$ V to 46 $\mu$ V*	Average
0,5MHz to 5MHz	56dB $\mu$ V	QPeak
	46dB $\mu$ V	Average
5MHz to 30MHz	60B $\mu$ V	QPeak
	50dB $\mu$ V	Average

\*Decreases with the logarithm of the frequency

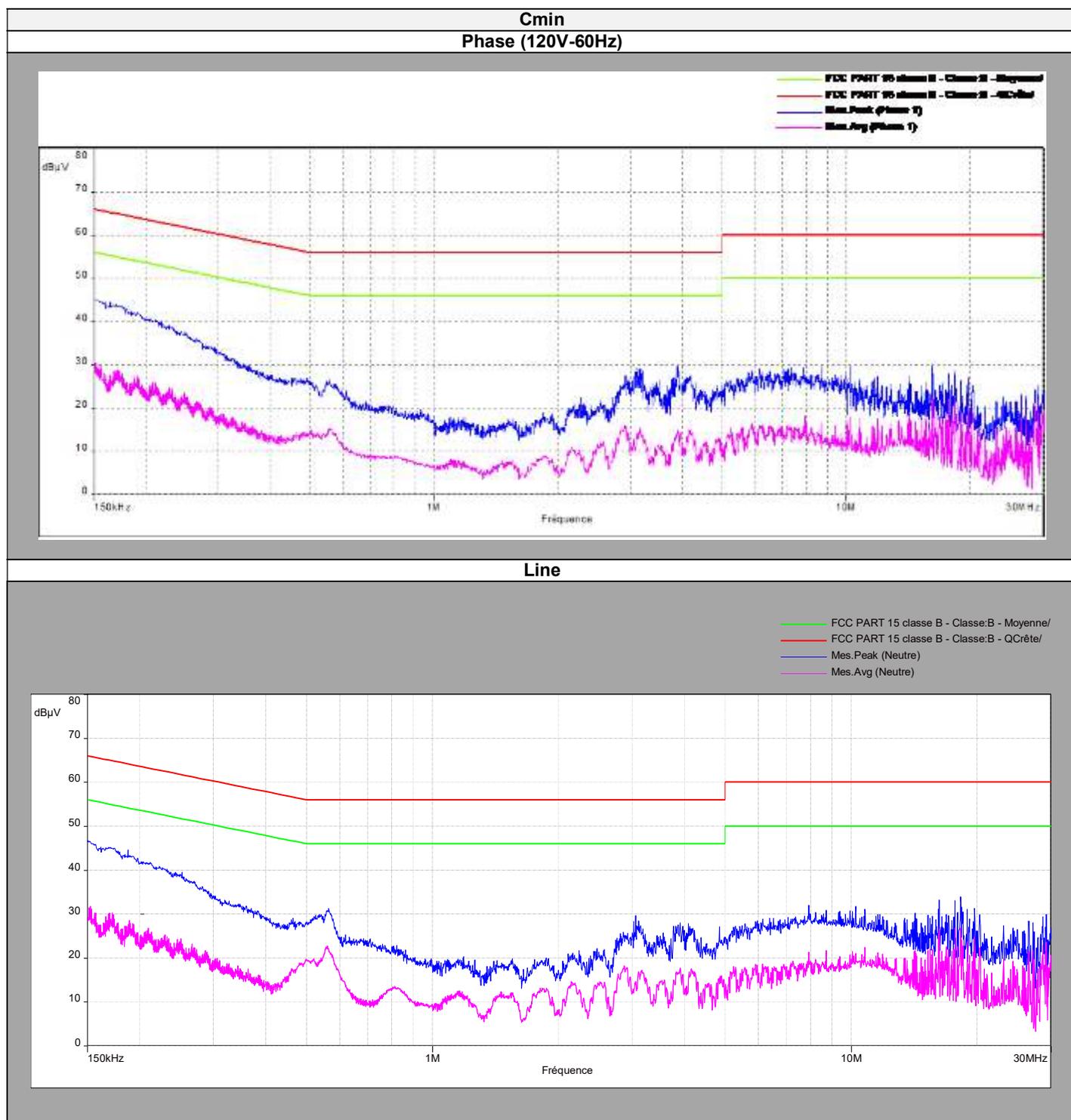
### 12.4. TEST EQUIPMENT LIST

Test Equipment Used					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Recepteur	R&S	ESU	A2642018	01/2020	01/2022
V ISLN	R&S	ESH2-Z5	C2322002	10/2020	10/2021
Pulse limiter	R&S	ESH3-Z2	A2649008	05/2020	05/2021
Cable	LCIE	-	A5329589	11/2020	11/2021
Cable	-	-	A5329417	12/2020	12/2021
Reference ground plan 2.5 x 3m	L.C.I.E.	-	-	-	-

### 12.5. DIVERGENCE, ADDITION OR SUPPRESSION ON THE TEST SPECIFICATION

None       Divergence:

## 12.6. RESULTS





L C I E

Phase Line							
Frequency (MHz)	Peak Level (dB $\mu$ V)	Quasi-Peak Level (dB $\mu$ V)	Quasi-Peak Limit (dB $\mu$ V)	Margin Quasi-Peak (dB $\mu$ V)	Average Level (dB $\mu$ V)	Average Limit (dB $\mu$ V)	Margin Average (dB $\mu$ V)
0,15	45	-	64	19	28,8	39	10,2
0,554	26,6	-	56	29,4	14,6	46	31,4
3,09	29,5	-	56	26,5	13,2	46	32,8
16,22	28	-	60	32	20,5	50	29,5
18,24	28,5	-	60	31,5	22,6	50	27,4

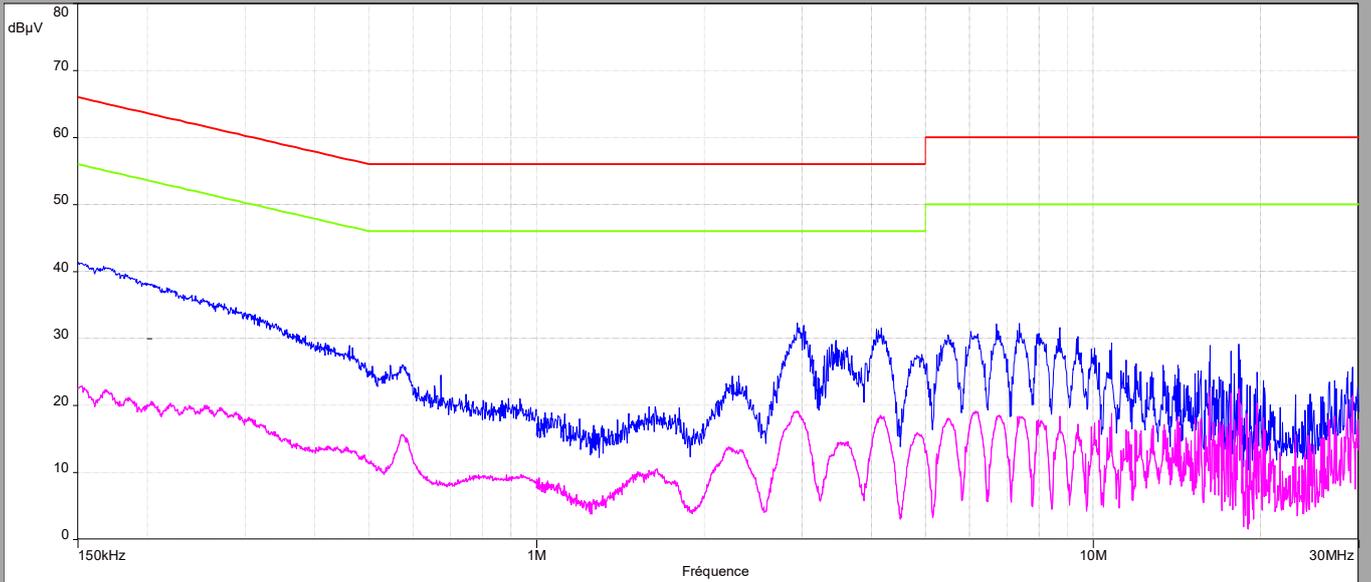
Neutral Line							
Frequency (MHz)	Peak Level (dB $\mu$ V)	Quasi-Peak Level (dB $\mu$ V)	Quasi-Peak Limit (dB $\mu$ V)	Margin Quasi-Peak (dB $\mu$ V)	Average Level (dB $\mu$ V)	Average Limit (dB $\mu$ V)	Margin Average (dB $\mu$ V)
0,15	46,5	-	64	17,5	28,5	39	10,5
0,561	30,6	-	56	25,4	22,8	46	23,2
2,86	25,2	-	56	30,8	18,2	46	27,8
7,92	32	-	60	28	21,3	50	28,7
18,24	32,8	-	60	27,2	26,2	50	23,8



L C I E

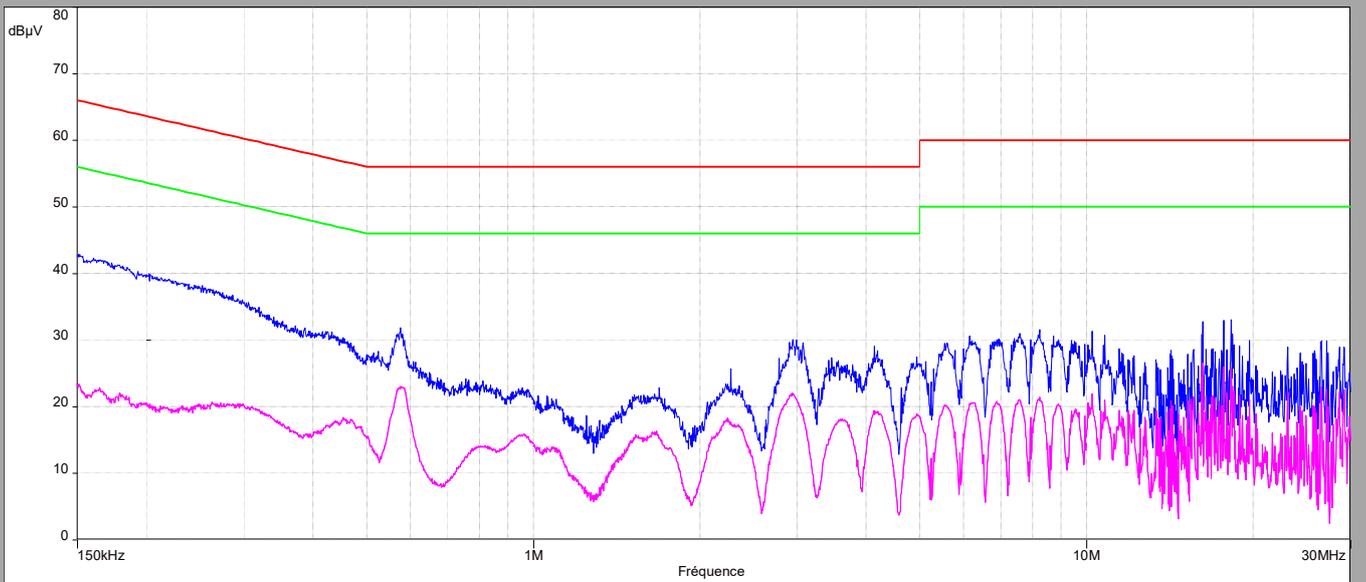
### Cmin Phase (240V-50Hz)

- FCC PART 15 classe B - Classe:B - Moyenne/
- FCC PART 15 classe B - Classe:B - QCrête/
- Mes.Peak (Phase 1)
- Mes.Avg (Phase 1)



### Line

- FCC PART 15 classe B - Classe:B - Moyenne/
- FCC PART 15 classe B - Classe:B - QCrête/
- Mes.Peak (Neutre)
- Mes.Avg (Neutre)





L C I E

Phase Line							
Frequency (MHz)	Peak Level (dB $\mu$ V)	Quasi-Peak Level (dB $\mu$ V)	Quasi-Peak Limit (dB $\mu$ V)	Margin Quasi-Peak (dB $\mu$ V)	Average Level (dB $\mu$ V)	Average Limit (dB $\mu$ V)	Margin Average (dB $\mu$ V)
0,15	41	-	64	23	22,5	39	16,5
0,554	25,3	-	56	30,7	15,3	46	30,7
3,08	31	-	56	25	18,8	46	27,2
7,37	32,3	-	60	27,7	17,6	50	32,4
18,24	29	-	60	31	22,3	50	27,7

Neutral Line							
Frequency (MHz)	Peak Level (dB $\mu$ V)	Quasi-Peak Level (dB $\mu$ V)	Quasi-Peak Limit (dB $\mu$ V)	Margin Quasi-Peak (dB $\mu$ V)	Average Level (dB $\mu$ V)	Average Limit (dB $\mu$ V)	Margin Average (dB $\mu$ V)
0,15	42,6	-	64	21,4	23,3	39	15,7
0,548	30,7	-	56	25,3	22,6	46	23,4
2,93	29	-	56	27	21,7	46	24,3
16,22	32,7	-	60	27,3	26,5	50	23,5
23,12	29	-	60	31	22,2	50	27,8

## 12.7. CONCLUSION

Ac Power Line Conducted Emission measurement performed on the sample of the product TECHNICOLOR UIW4059MIL, SN: LAB3-V0 nr.030, 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

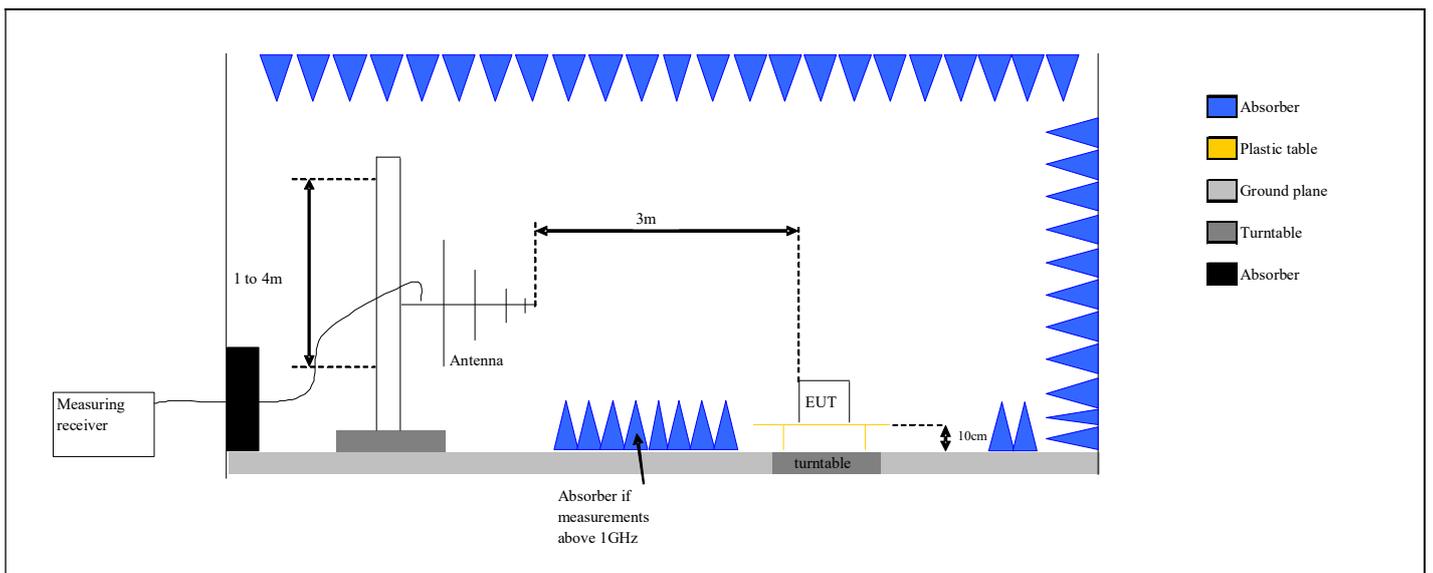
### 13.1. TEST CONDITIONS

Test performed by : Laurent DENEUX  
 Date of test : April 20, 2021 to April 21, 2021  
 Ambient temperature : 20C  
 Relative humidity : 45 %

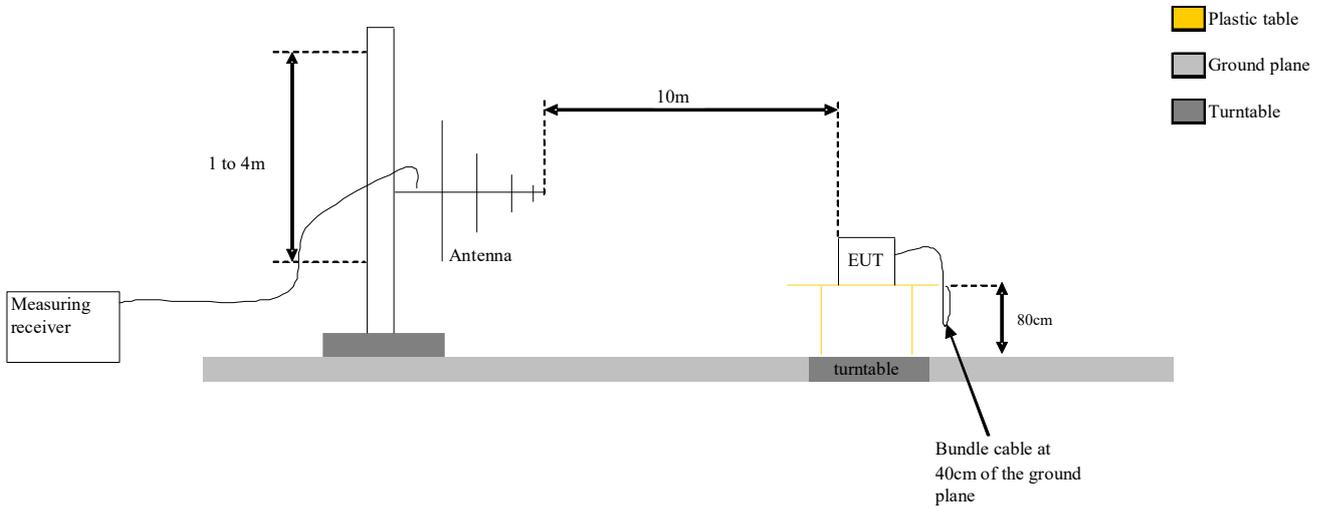
### 13.2. TEST SETUP

The product has been tested according to ANSI C63.10 and FCC part 15 subpart C:

Frequency range :	Below 30MHz	From 30MHz to 1GHz	Above 1GHz
Antenna Polarization :	Parallel, Perpendicular And Ground parallel	Horizontal And Vertical	Horizontal And Vertical
Antenna Height :	1m	Varied from 1m to 4m	Varied from 1m to 4m
Antenna Type :	Loop	Bi-Log	Horn
RBW Filter :	200Hz below 150kHz 9kHz above 150kHz	120kHz	1MHz
Maximization :	Turntable rotation of 360 degrees range		
EUT height :	0.8m		1.5m
Test site :	Open Aera Test Site	Open Aera Test Site	Semi-Anechoic Chamber
Distance EUT-Antenna :	3m	10m	3m



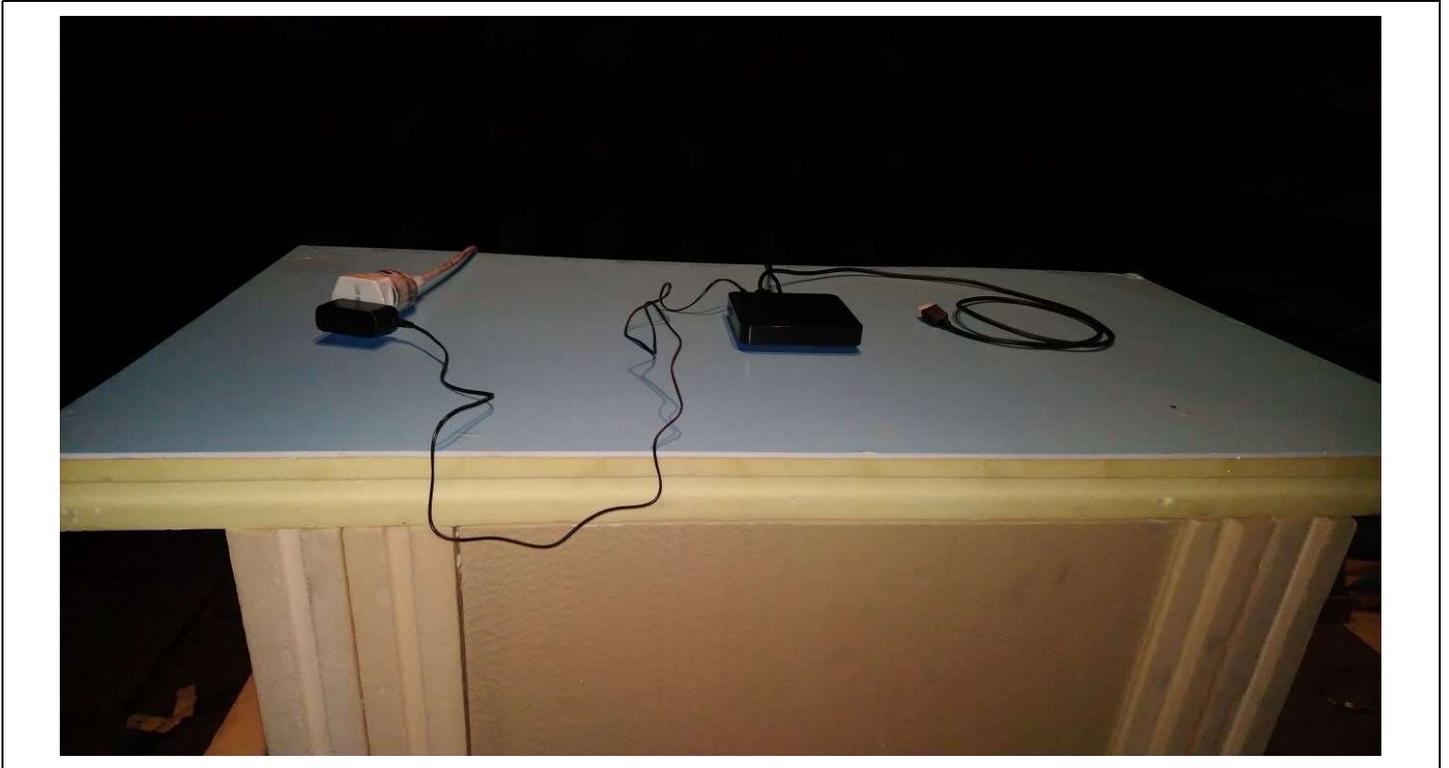
Test set up of Unwanted Emissions in Restricted Frequency Bands in semi anechoic chamber



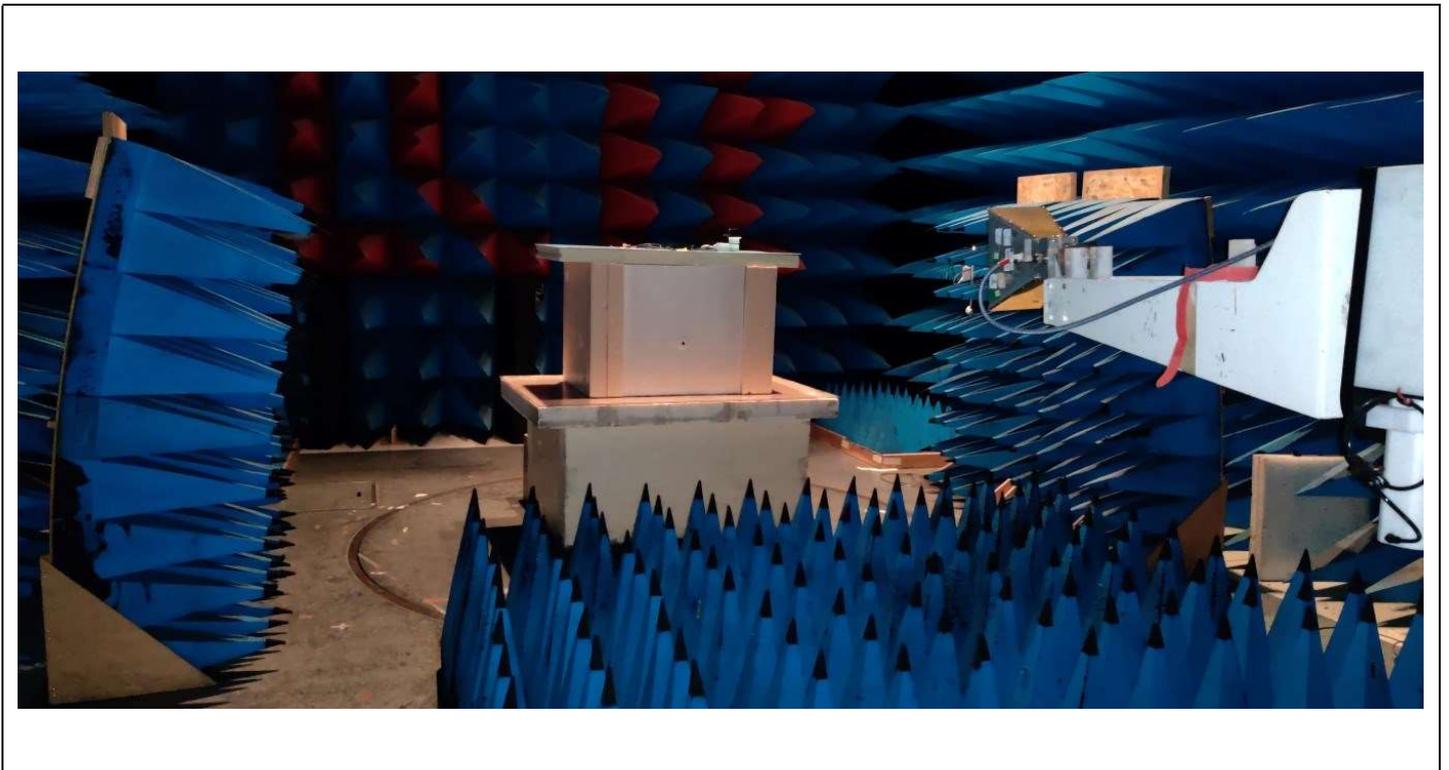
Test Set up for radiated measurement in open area test site



Photograph for Unwanted Emission in restricted frequency bands



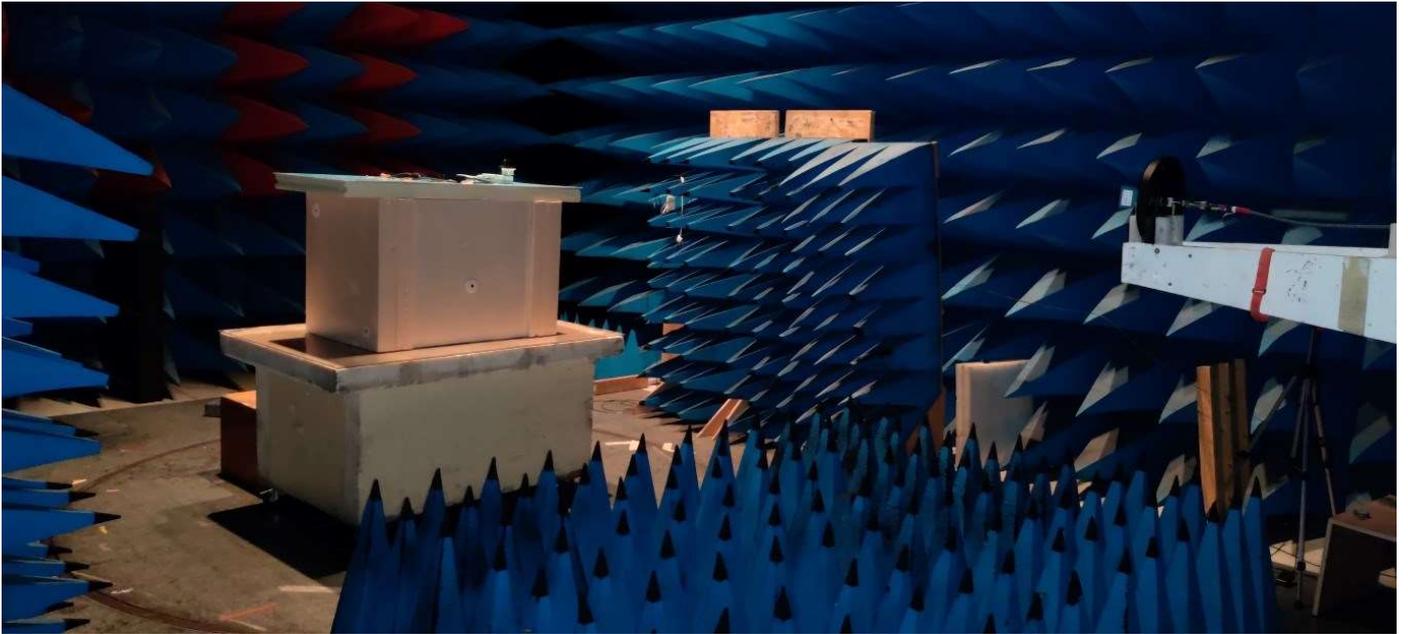
Photograph for Unwanted Emission in restricted frequency bands



Photograph for Unwanted Emission in restricted frequency bands



L C I E



Photograph for Unwanted Emission in restricted frequency bands

### 13.3. LIMIT

<b>Measure at 300m</b>		
<b>Frequency range</b>	<b>Level</b>	<b>Detector</b>
9kHz-490kHz	67.6dB $\mu$ V/m /F(kHz)	QPeak
<b>Measure at 30m</b>		
<b>Frequency range</b>	<b>Level</b>	<b>Detector</b>
490kHz-1.705MHz	87.6dB $\mu$ V/m /F(kHz)	QPeak
1.705MHz-30MHz	29.5dB $\mu$ V/m	QPeak
<b>Measure at 10m</b>		
<b>Frequency range</b>	<b>Level</b>	<b>Detector</b>
30MHz to 88MHz	29.5dB $\mu$ V/m	QPeak
88MHz to 216MHz	33dB $\mu$ V/m	QPeak
216MHz to 960MHz	35.5B $\mu$ V/m	QPeak
960MHz to 1000MHz	43.5dB $\mu$ V/m	QPeak
Above 1000MHz	63.5dB $\mu$ V/m	Peak
	43.5dB $\mu$ V/m	Average
<b>Measure at 3m</b>		
<b>Frequency range</b>	<b>Level</b>	<b>Detector</b>
30MHz to 88MHz	40dB $\mu$ V/m	QPeak
88MHz to 216MHz	43.5dB $\mu$ V/m	QPeak
216MHz to 960MHz	46B $\mu$ V/m	QPeak
960MHz to 1000MHz	54dB $\mu$ V/m	QPeak
Above 1000MHz	74dB $\mu$ V/m	Peak
	54dB $\mu$ V/m	Average



#### 13.4. TEST EQUIPMENT LIST

DESCRIPTION	MANUFACTURER	MODEL	N° LCIE	Cal_Date	Cal_Due
BAT EMC Software	NEXIO	Version 3,19,1,18	-	-	-
SEMI ANECHOIC CHAMBER	SIEPEL	ZONE HOMOGENE	D3044008	2020/05	2021/05
Preamplifier	LCIE	LCIE-ALB-001	A7080073	2021/02	2023/02
Horn antenna	AH SYSTEMS	SAS 571	C2042041	2019/11	2021/11
Horn antenna (18-26,5GHz)	PASTERNAK	PE9852/2F-20	C2042048	2020/06	2022/06
EMI receiver	ROHDE & SCHWARZ	FSV40GHz	A4060061	2019/05	2021/05
Cable S36 chamber	PASTERNAK	PE360-3000CM	A5329872	2021/02	2022/02
Cable S36 chamber	PASTERNAK	PE360-1000CM	A5329939	2021/02	2022/02
Cable S36 chamber	PASTERNAK	PE360-1500CM	A5329940	2021/02	2022/02
High Pass Filter 2,4GHz	WAINWRIGHT	WHK12-2494	A7484068	2019/07	2021/07
Recepteur	R&S	ESU	A2642018	01/2020	01/2022
Antenna bilog	CHASE	CBL 6112A	C2042040	12/05/2020	05/2021
Preamplifier	HP	8449B	A4069002	09/2020	09/2022
Antenna cornet	EMCO	3115	C2042016	05/2020	05/2021
OATS	L.C.I.E.	-	F2000400	09/2020	09/2021
Cable	-	-	A5329442	12/2020	12/2021
loop antenna	ROHDE & SCHWARZ	HFH2-Z2	C2040269	09/2020	09/2022
Cable	-	-	A5329416	02/2021	02/2022
Cable	-	-	A5329542	11/2020	11/2021
Cable	-	-	A5329876	13/12/2019	12/2021
Cable	-	-	A5329449	22/12/2020	12/2021

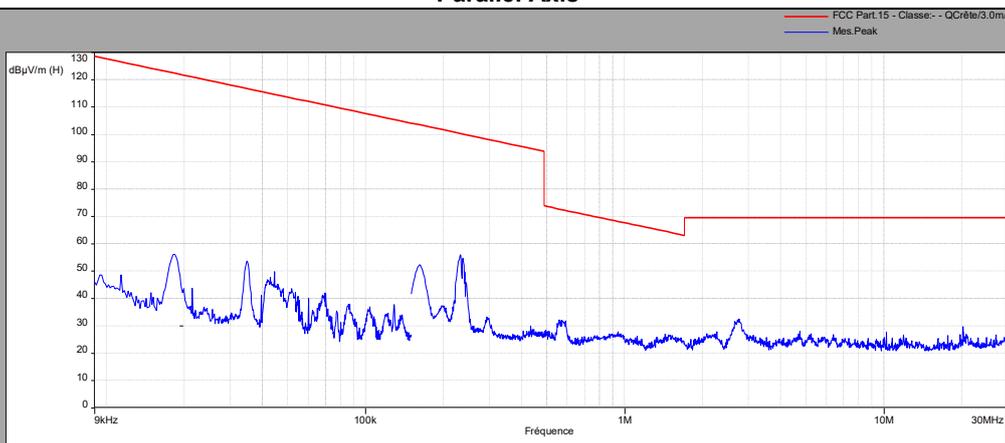
Note: In our quality system, the test equipment calibration due is more & less 2 months

#### 13.5. DIVERGENCE, ADDITION OR SUPPRESSION ON THE TEST SPECIFICATION

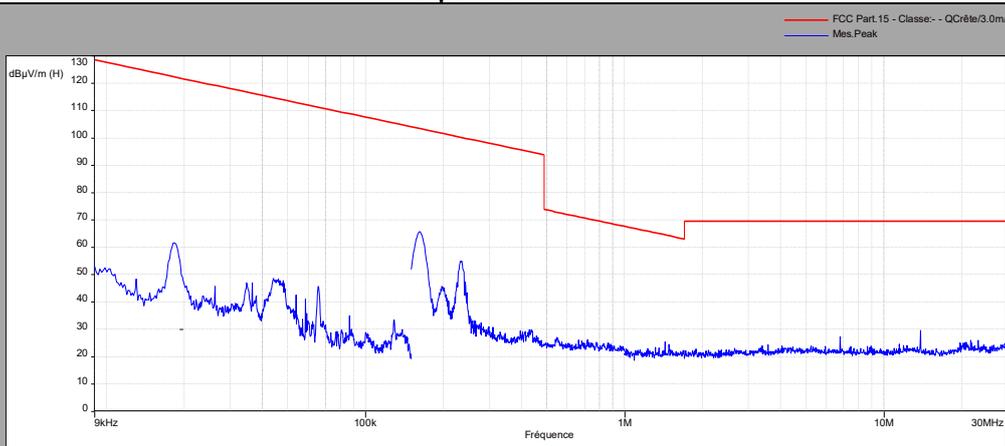
None       Divergence:

**13.6. RESULTS**

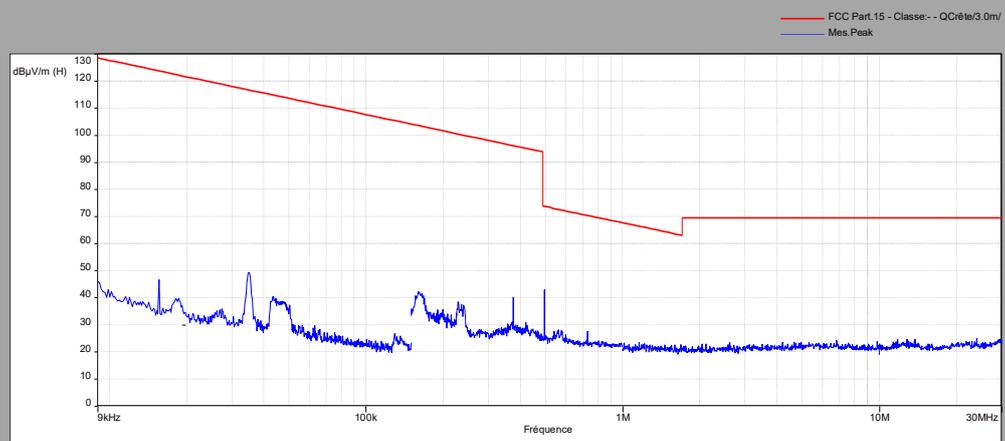
**9kHz to 30MHz  
Parallel Axis**



**Perpendicular Axis**



**Ground Parallel Axis**



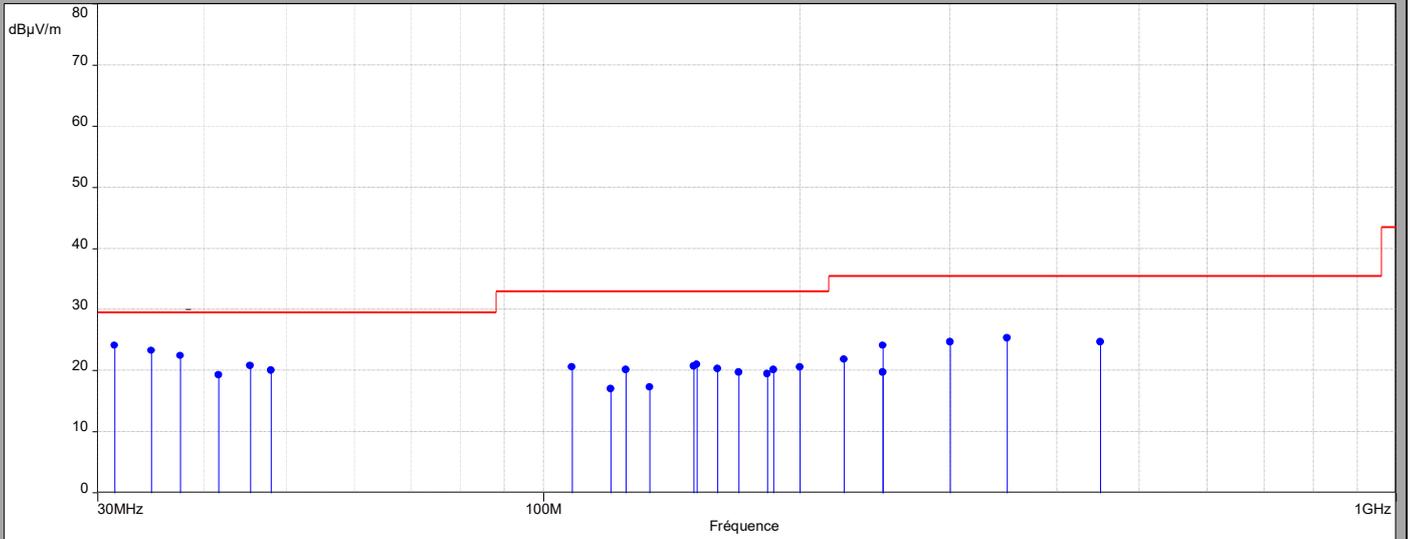


L C I E

**GFSK**  
**Below 1GHz**  
**Cmin**

**Vertical & horizontal Polarization**

- FCC Part 15 class B (unintentional radiator) §109 - Classe:- - QCrête/10.0m/
- Mes. Q-Peak (Mes. Q-Peak) (Verticale)
- Mes. Q-Peak (Mes. Q-Peak) (Horizontale)





L C I E

### 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.Peak\_Channel C0 - Verticale (Verticale)
- Mes.Avg\_Channel C0 - Verticale (Verticale)
- Mes.Peak\_Channel C20 - Verticale (Verticale)
- Mes.Avg\_Channel C20 - Verticale (Verticale)
- Mes.Peak\_Channel C39 - Verticale (Verticale)
- Mes.Avg\_Channel C39 - Verticale (Verticale)

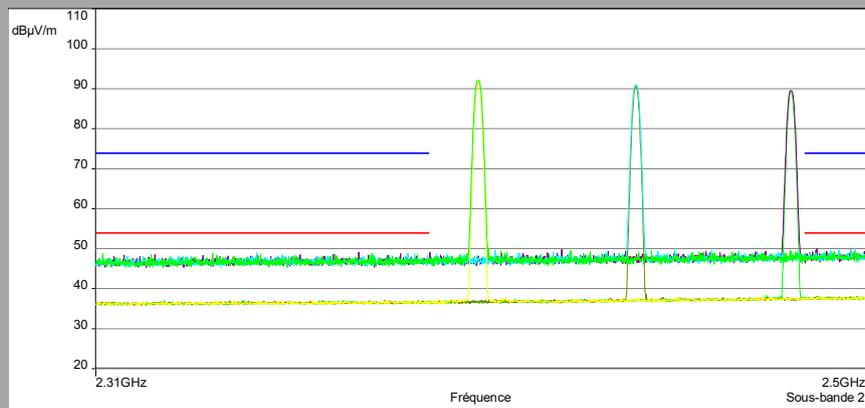
Description Sous-bande 2

Fréquences:2.31 GHz - 2.5 GHz (Mode analyseur) 32001 Points

Réglages: RBW: 1MHz, VBW: 3MHz, Durée balayage : 20 ms/MHz, Atténuation : 0 dB, Nombre de Balayages : 1, Preamp

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\_Channel C0 - Horizontale (Horizontale)
- Mes.Avg\_Channel C0 - Horizontale (Horizontale)
- Mes.Peak\_Channel C20 - Horizontale (Horizontale)
- Mes.Avg\_Channel C20 - Horizontale (Horizontale)
- Mes.Peak\_Channel C39 - Horizontale (Horizontale)
- Mes.Avg\_Channel C39 - Horizontale (Horizontale)

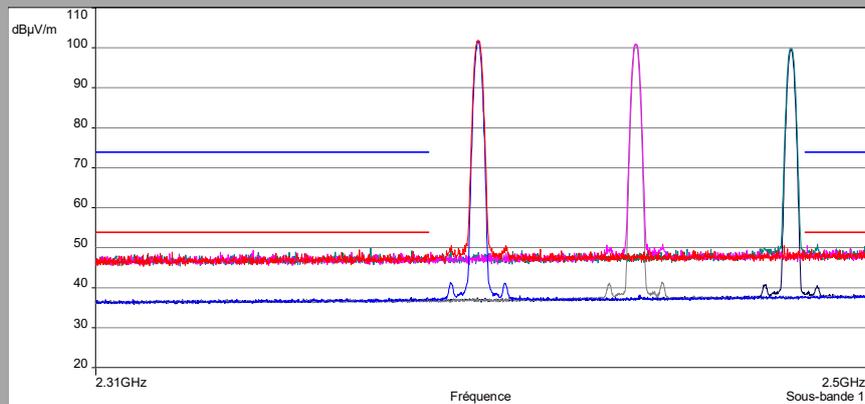
Description Sous-bande 1

Fréquences:2.31 GHz - 2.5 GHz (Mode analyseur) 32001 Points

Réglages: RBW: 1MHz, VBW: 3MHz, Durée balayage : 20 ms/MHz, Atténuation : 0 dB, Nombre de Balayages : 1, Preamp

Polarisation:Horizontale

Distance: 3 m





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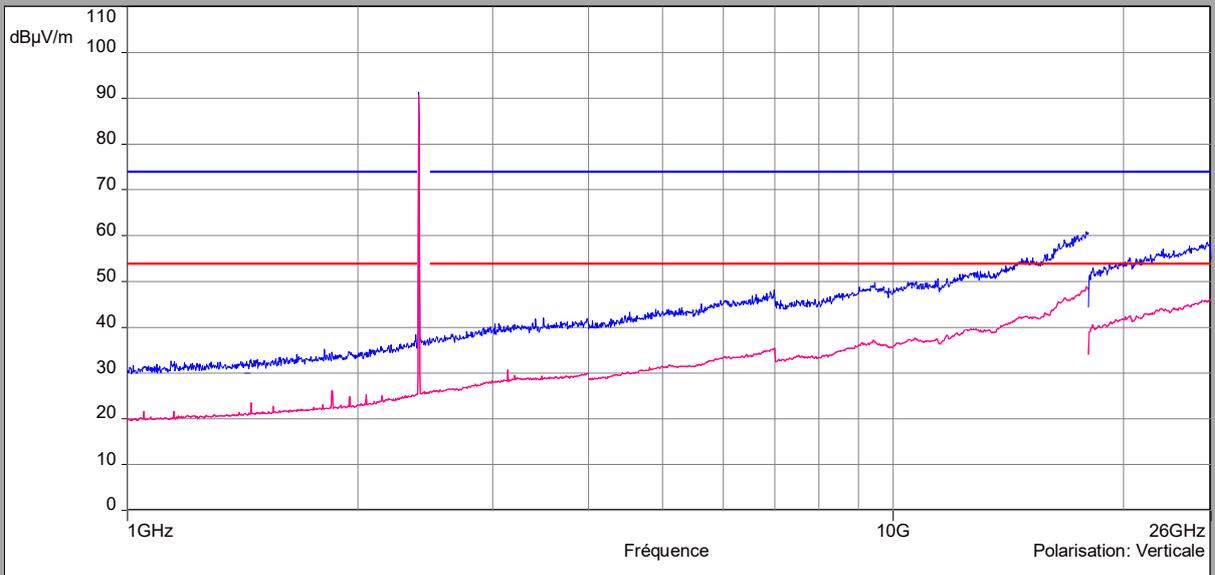
### GFSK

Above 1GHz

Cmin

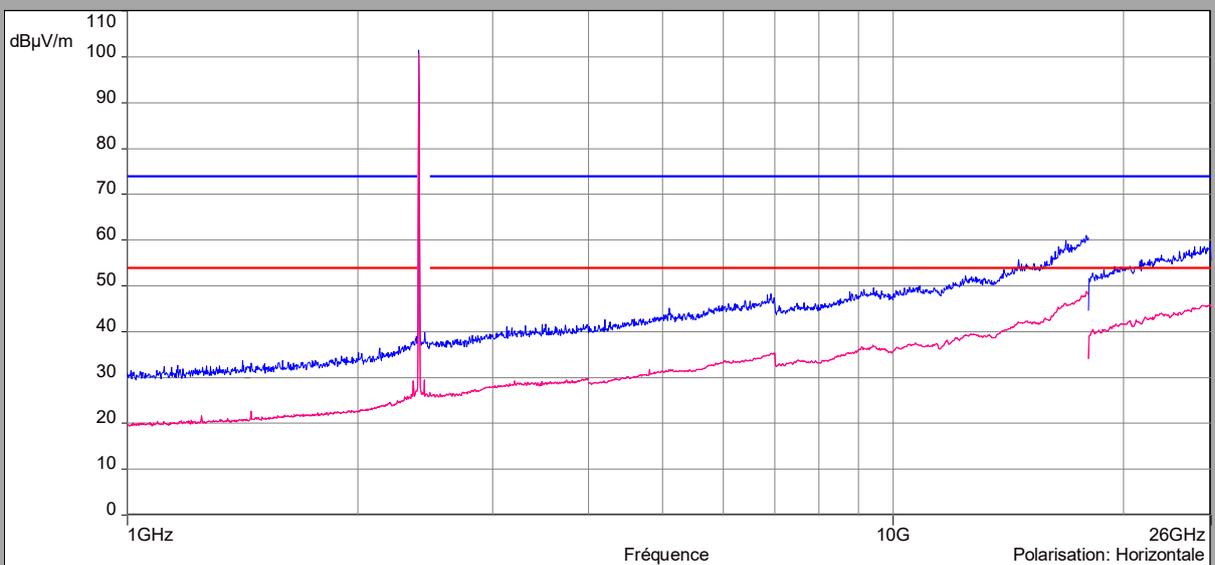
#### Vertical Polarization

- 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.Peak (Verticale)
- Mes.Avg (Verticale)



#### 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 (Horizontale)
- Mes.Avg (Horizontale)





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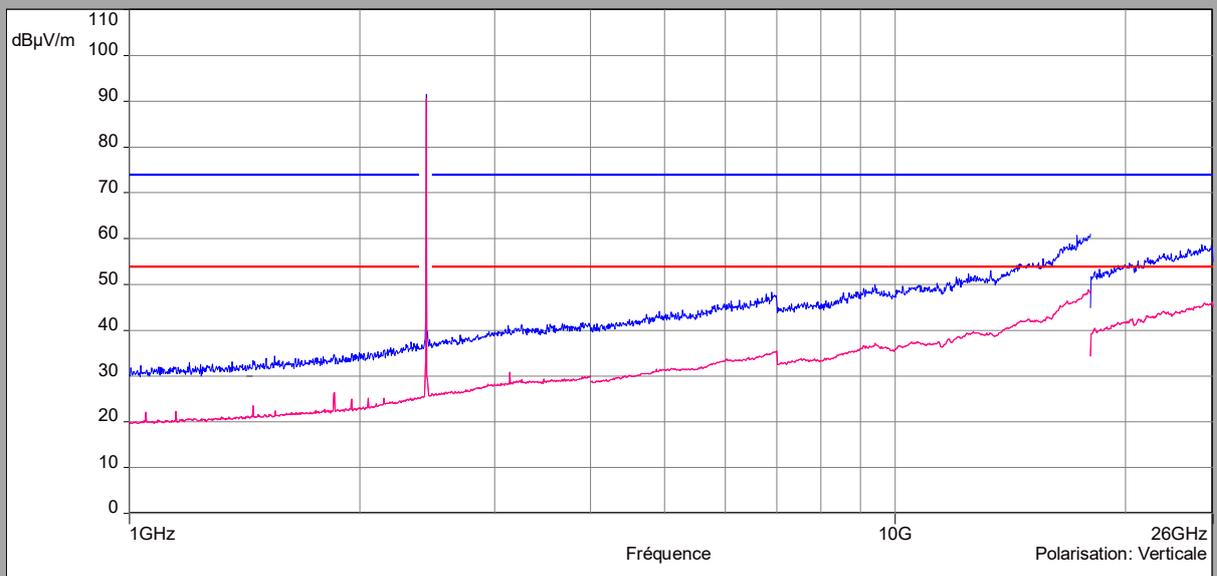
### GFSK

Above 1GHz

Cnom

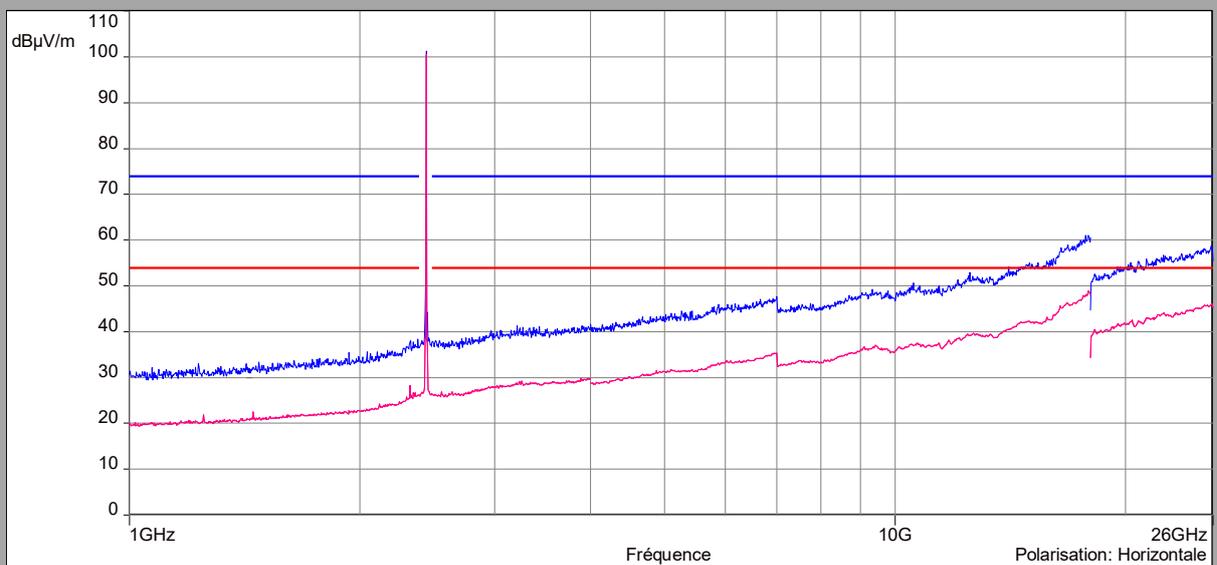
#### Vertical Polarization

- 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.Peak (Verticale)
- Mes.Avg (Verticale)



#### 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 (Horizontale)
- Mes.Avg (Horizontale)





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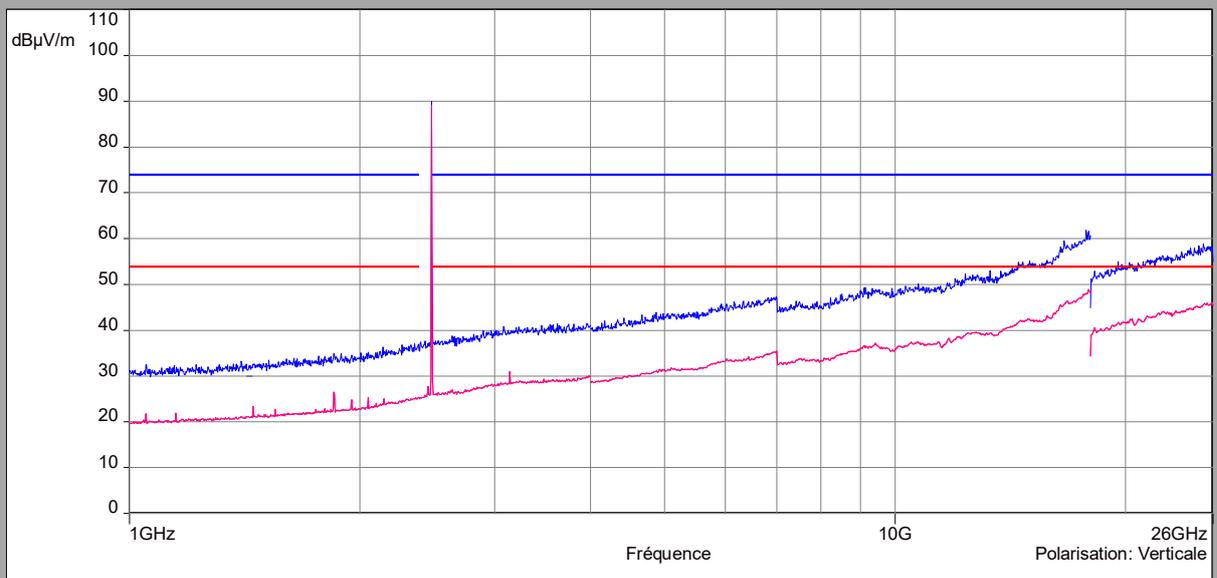
### GFSK

Above 1GHz

Cmax

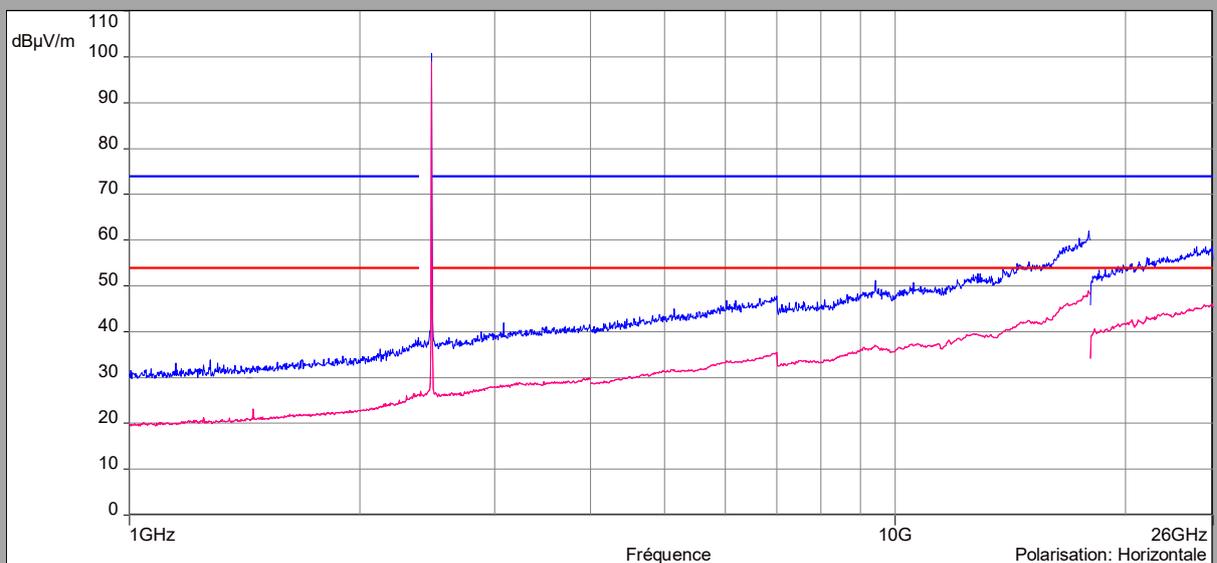
#### Vertical Polarization

- 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.Peak (Verticale)
- Mes.Avg (Verticale)



#### 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 (Horizontale)
- Mes.Avg (Horizontale)





L C I E

### $\pi/4$ 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.Peak\_Channel C0 - Verticale (Verticale)
- Mes.Avg\_Channel C0 - Verticale (Verticale)
- Mes.Peak\_Channel C20 - Verticale (Verticale)
- Mes.Avg\_Channel C20 - Verticale (Verticale)
- Mes.Peak\_Channel C39 - Verticale (Verticale)
- Mes.Avg\_Channel C39 - Verticale (Verticale)

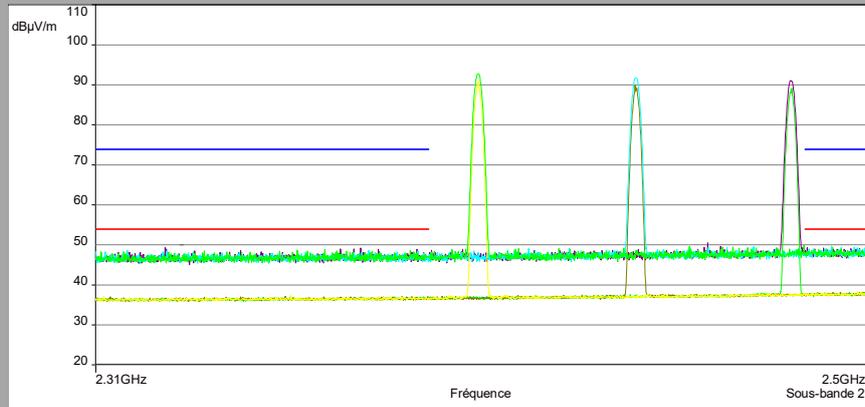
Description Sous-bande 2

Fréquences:2.31 GHz - 2.5 GHz (Mode analyseur) 32001 Points

Réglages: RBW: 1MHz, VBW: 3MHz, Durée balayage : 20 ms/MHz, Atténuation : 0 dB, Nombre de Balayages : 1, Preamp

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\_Channel C0 - Horizontale (Horizontale)
- Mes.Avg\_Channel C0 - Horizontale (Horizontale)
- Mes.Peak\_Channel C20 - Horizontale (Horizontale)
- Mes.Avg\_Channel C20 - Horizontale (Horizontale)
- Mes.Peak\_Channel C39 - Horizontale (Horizontale)
- Mes.Avg\_Channel C39 - Horizontale (Horizontale)

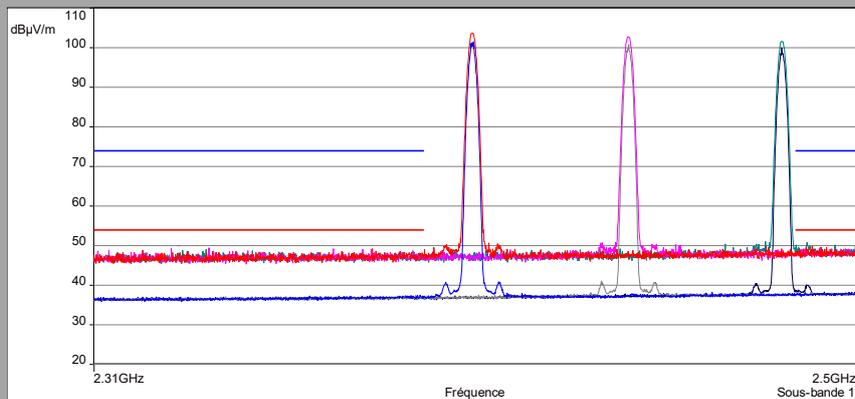
Description Sous-bande 1

Fréquences:2.31 GHz - 2.5 GHz (Mode analyseur) 32001 Points

Réglages: RBW: 1MHz, VBW: 3MHz, Durée balayage : 20 ms/MHz, Atténuation : 0 dB, Nombre de Balayages : 1, Preamp

Polarisation:Horizontale

Distance: 3 m



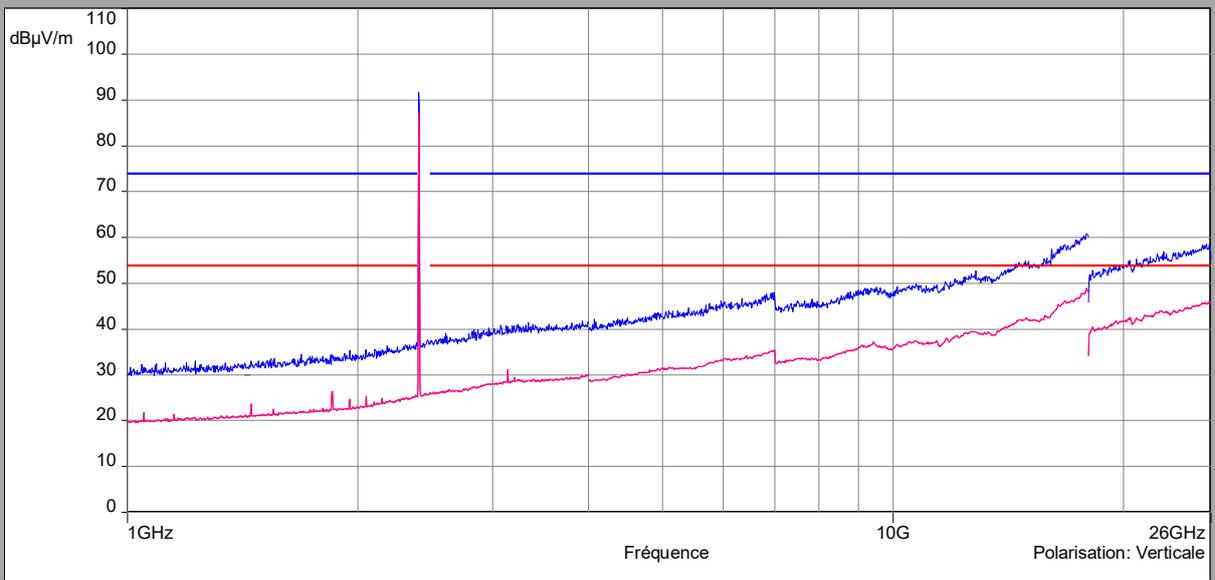


L C I E

**$\pi/4$  DQPSK**  
**Above 1GHz**  
**Cmin**

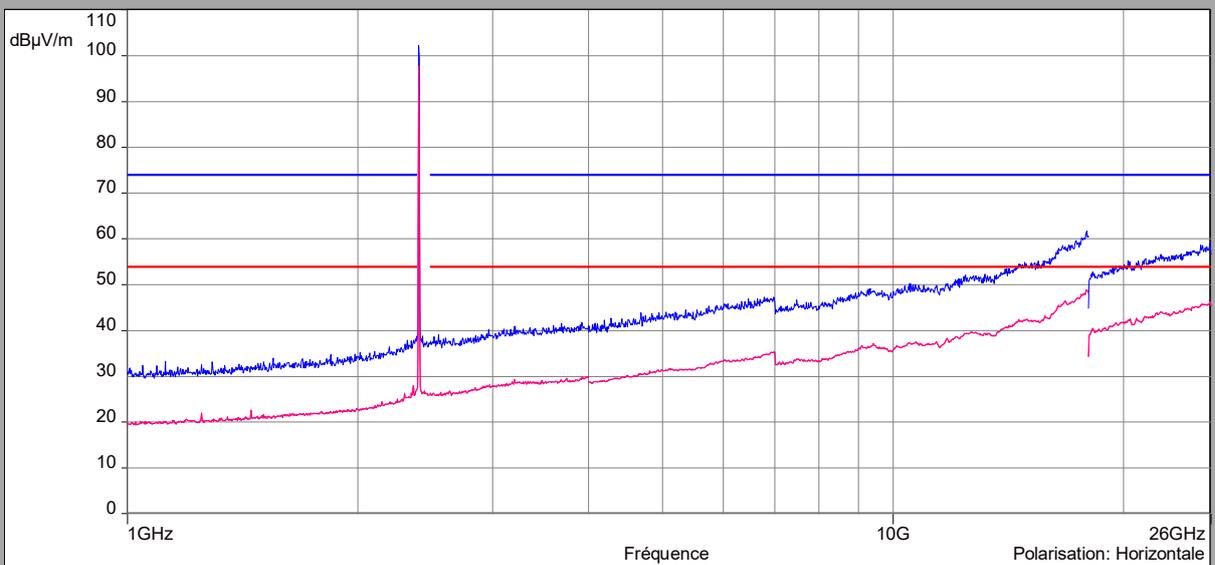
**Vertical Polarization**

- 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.Peak (Verticale)
- Mes.Avg (Verticale)



**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 (Horizontale)
- Mes.Avg (Horizontale)





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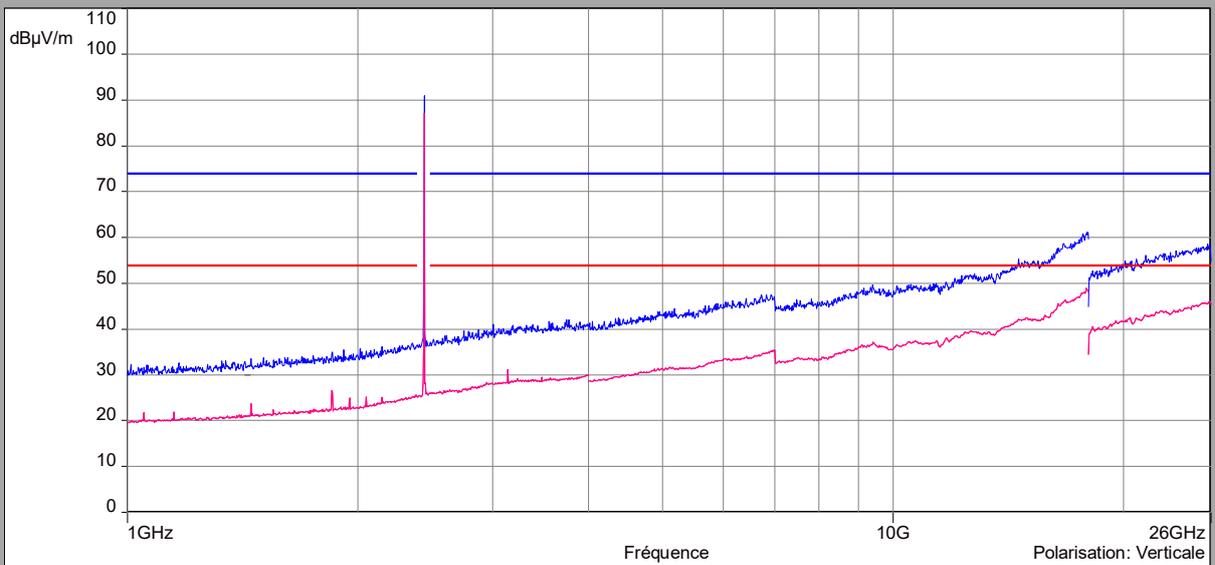
### $\pi/4$ DQPSK

Above 1GHz

Cnom

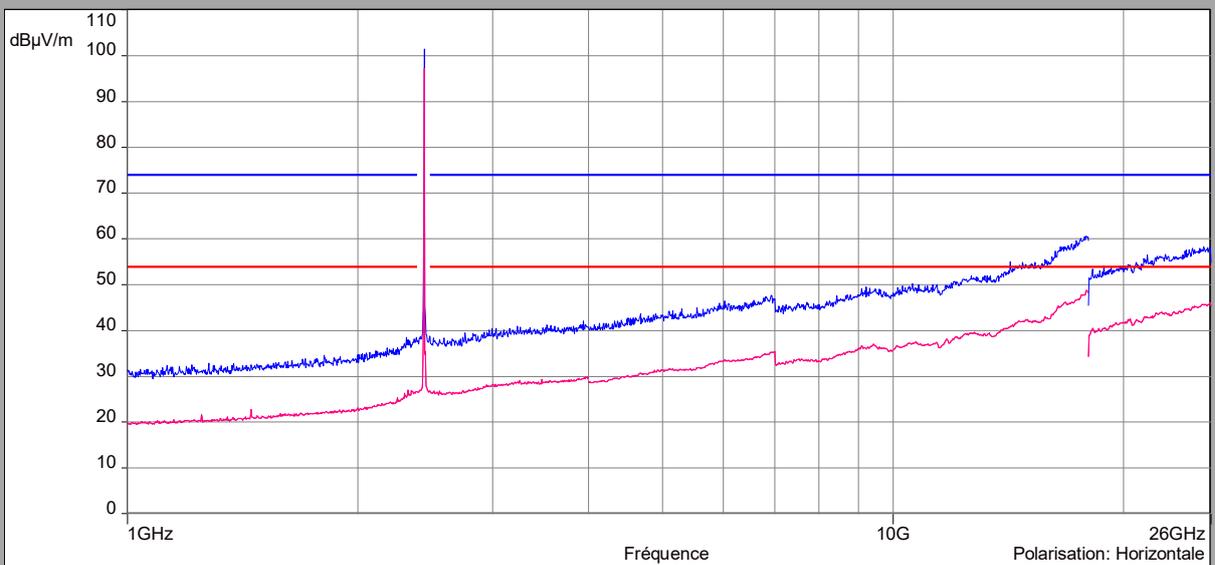
#### Vertical Polarization

- 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.Peak (Verticale)
- Mes.Avg (Verticale)



#### 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 (Horizontale)
- Mes.Avg (Horizontale)





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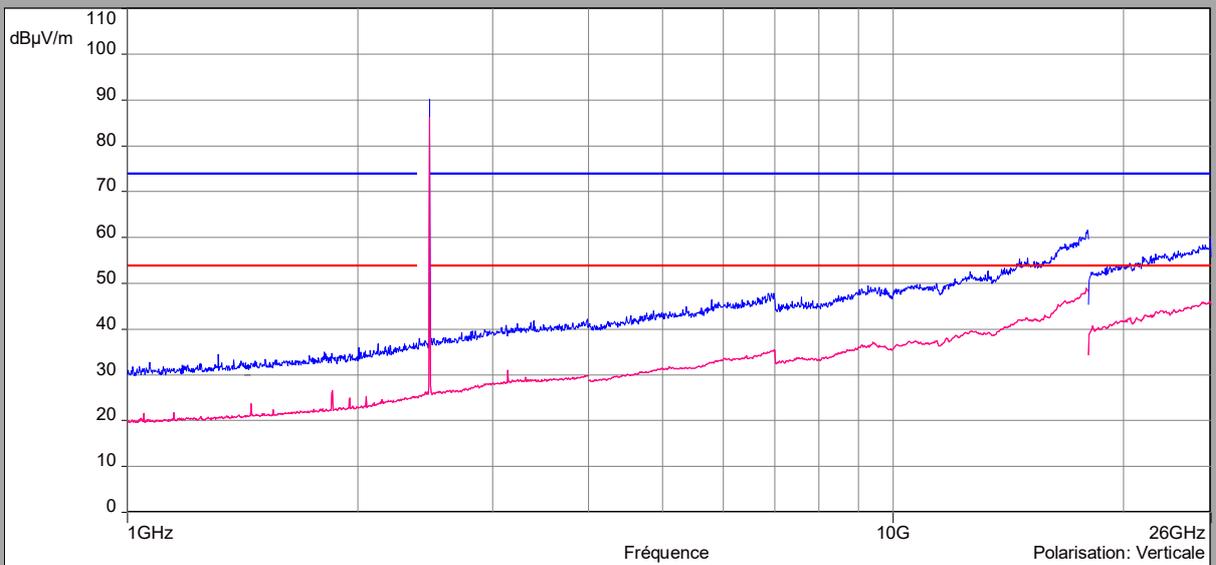
### $\pi/4$ DQPSK

Above 1GHz

Cmax

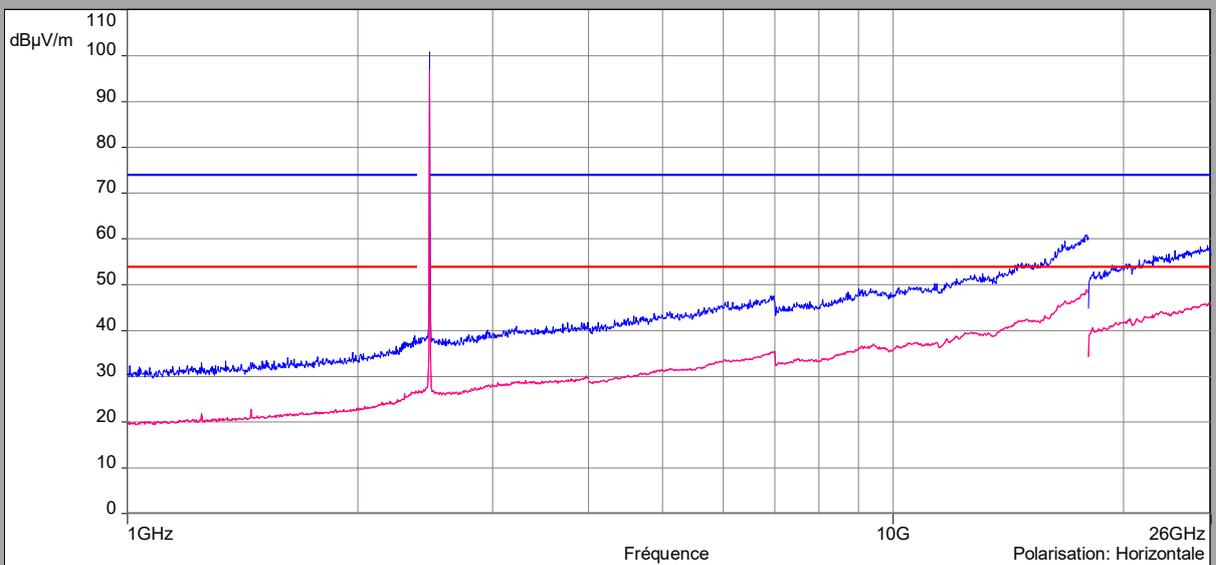
#### Vertical Polarization

- 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.Peak (Verticale)
- Mes.Avg (Verticale)



#### 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 (Horizontale)
- Mes.Avg (Horizontale)





L C I E

### 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.Peak\_Channel C0 - Verticale (Verticale)
- Mes.Avg\_Channel C0 - Verticale (Verticale)
- Mes.Peak\_Channel C20 - Verticale (Verticale)
- Mes.Avg\_Channel C20 - Verticale (Verticale)
- Mes.Peak\_Channel C39 - Verticale (Verticale)
- Mes.Avg\_Channel C39 - Verticale (Verticale)

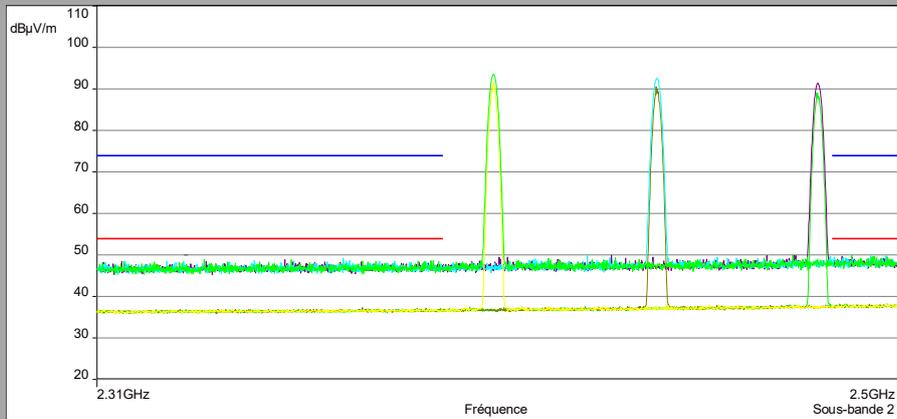
Description Sous-bande 2

Fréquences:2.31 GHz - 2.5 GHz (Mode analyseur) 32001 Points

Réglages: RBW: 1MHz, VBW: 3MHz, Durée balayage : 20 ms/MHz, Atténuation : 0 dB, Nombre de Balayages : 1, Preamp : On: 10 dB, LN P

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\_Channel C0 - Horizontale (Horizontale)
- Mes.Avg\_Channel C0 - Horizontale (Horizontale)
- Mes.Peak\_Channel C20 - Horizontale (Horizontale)
- Mes.Avg\_Channel C20 - Horizontale (Horizontale)
- Mes.Peak\_Channel C39 - Horizontale (Horizontale)
- Mes.Avg\_Channel C39 - Horizontale (Horizontale)

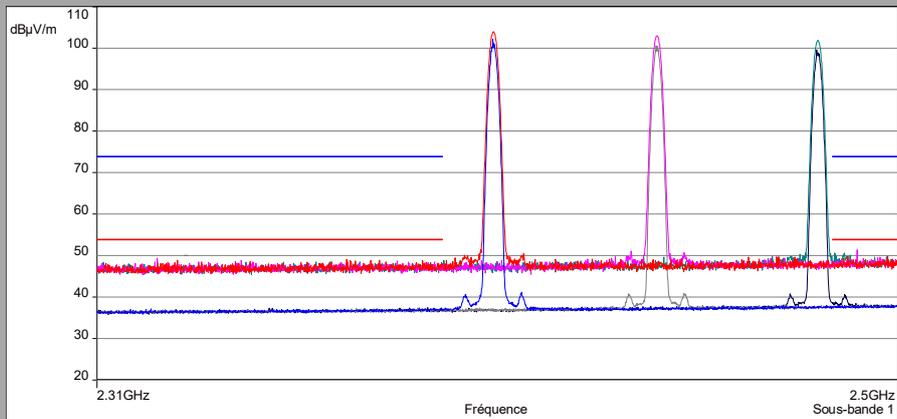
Description Sous-bande 1

Fréquences:2.31 GHz - 2.5 GHz (Mode analyseur) 32001 Points

Réglages: RBW: 1MHz, VBW: 3MHz, Durée balayage : 20 ms/MHz, Atténuation : 0 dB, Nombre de Balayages : 1, Preamp : On: 10 dB, LN P

Polarisation:Horizontale

Distance: 3 m





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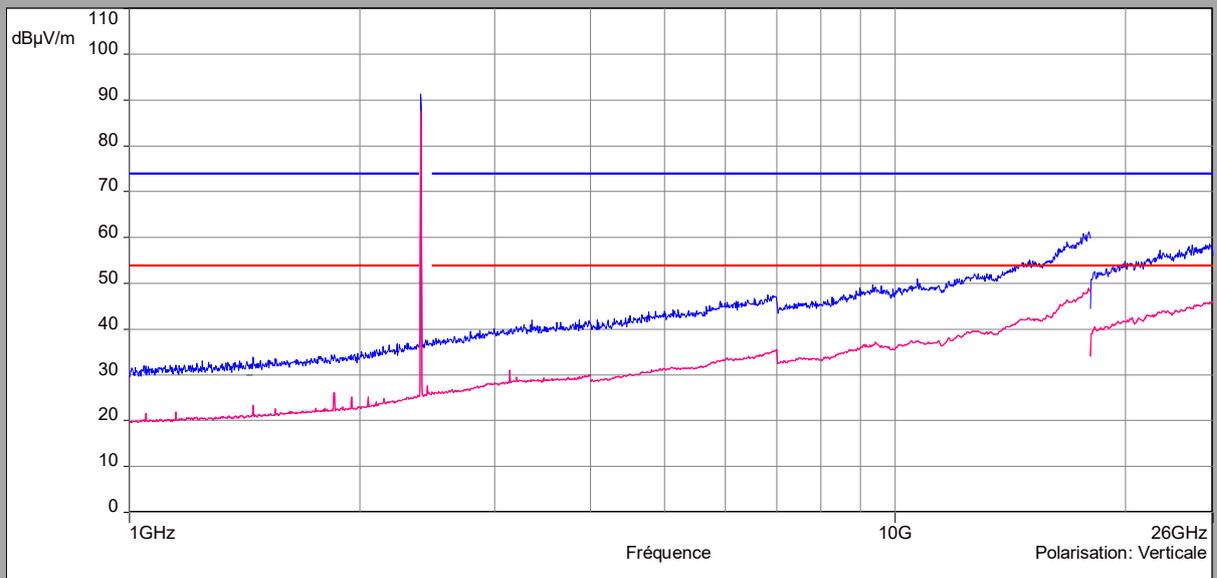
### 8DPSK

Above 1GHz

Cmin

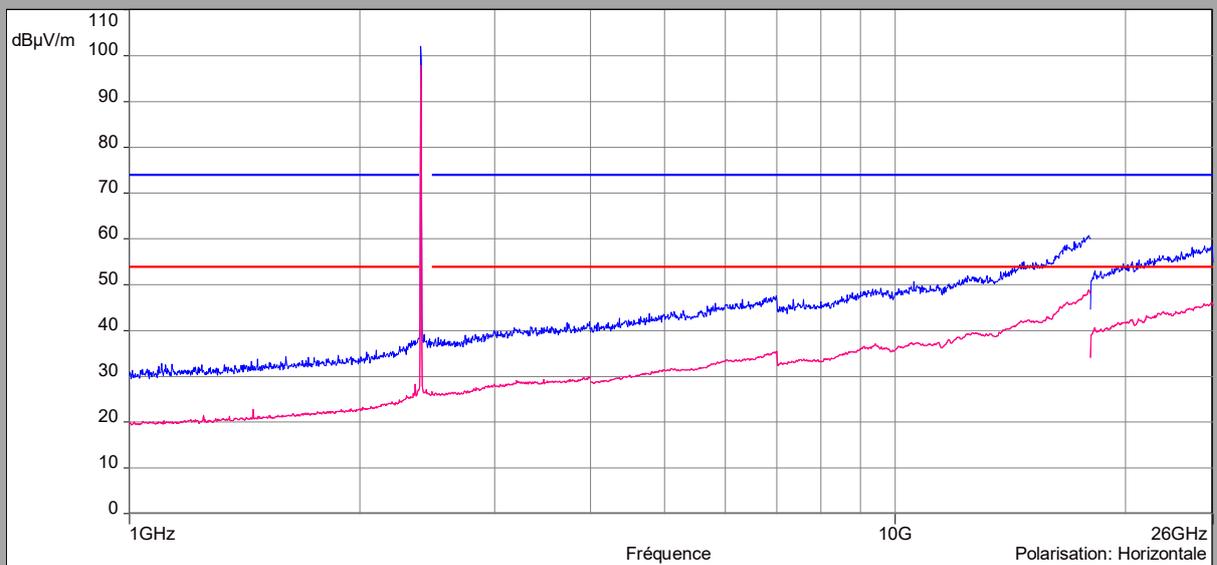
#### Vertical Polarization

- 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.Peak (Verticale)
- Mes.Avg (Verticale)



#### 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 (Horizontale)
- Mes.Avg (Horizontale)



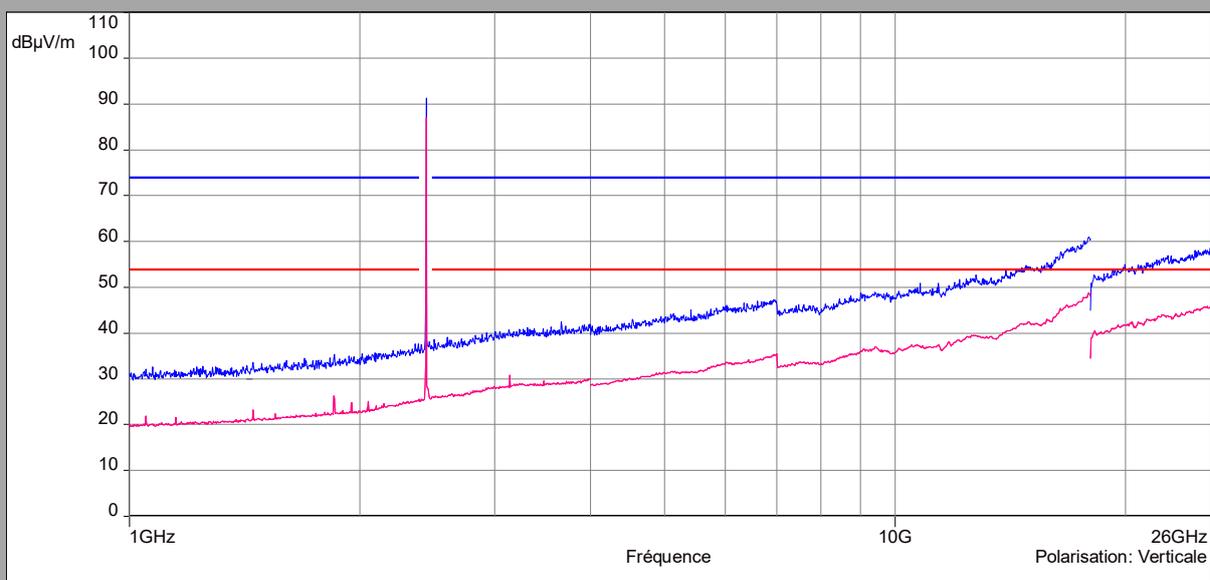
**8DPSK**

**Above 1GHz**

**Cnom**

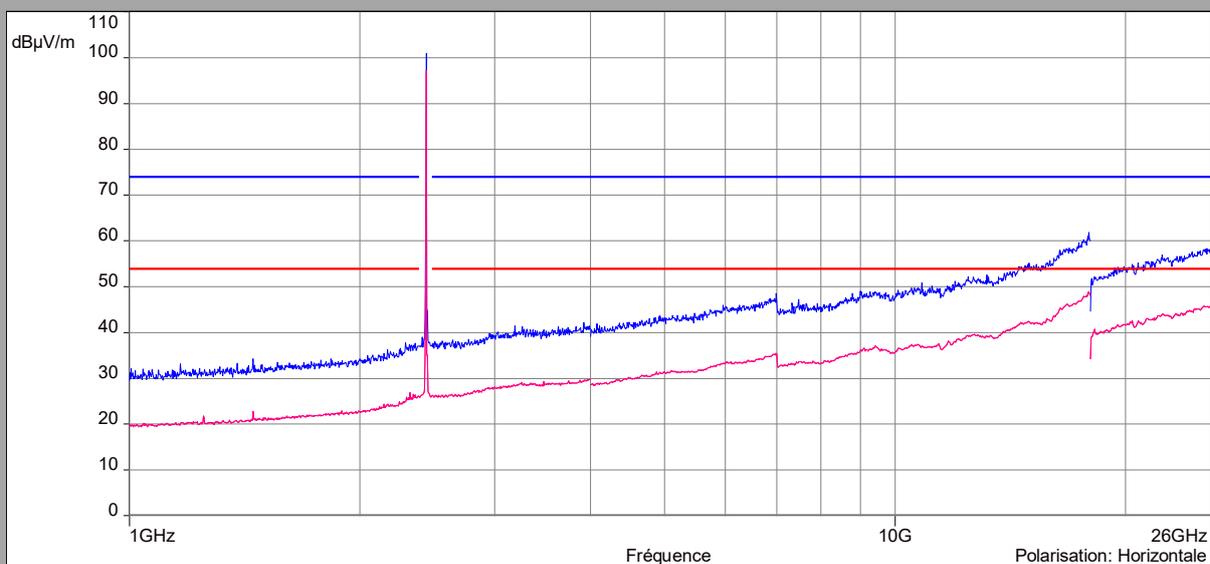
**Vertical Polarization**

- 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.Peak (Verticale)
- Mes.Avg (Verticale)



**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 (Horizontale)
- Mes.Avg (Horizontale)





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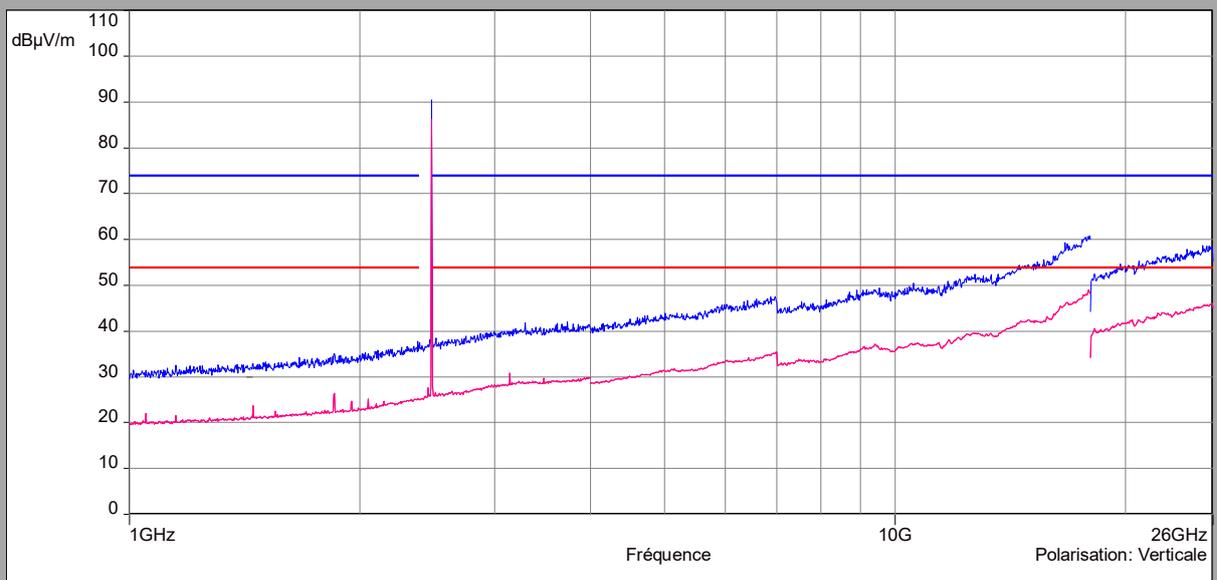
### 8DPSK

### Above 1GHz

### Cmax

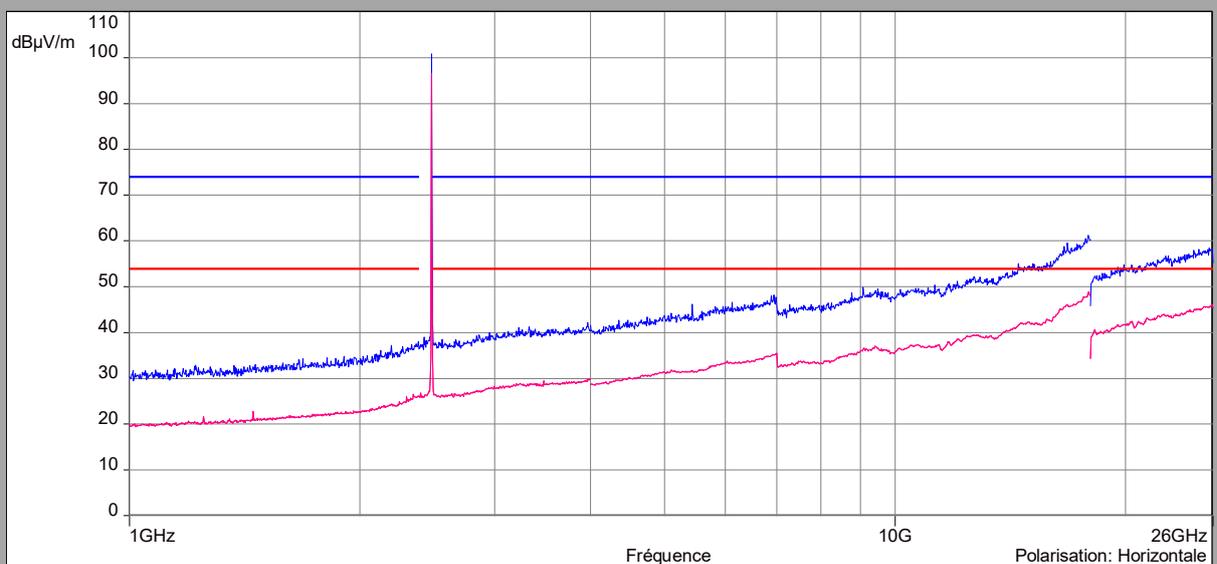
### Vertical Polarization

- 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.Peak (Verticale)
- Mes.Avg (Verticale)



### 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 (Horizontale)
- Mes.Avg (Horizontale)





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

Below 1GHz					
Polarization	Frequency (MHz)	Peak Level (dB $\mu$ V/m)	QPeak Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB $\mu$ V/m)
Vertical	31.4	-	24.11	29.5	5.39
Vertical	34.7	-	23.27	29.5	6.23
Vertical	37.5	-	22.49	29.5	7.01
Vertical	45.3	-	20.78	29.5	8.72
Vertical	47.9	-	20.01	29.5	9.49
Vertical	151.4	-	21.01	33	11.99
Vertical	169.5	-	19.71	33	13.29
Horizontal	160	-	20.3	33	12.7
Horizontal	186.2	-	20.12	33	12.88
Horizontal	300	-	24.64	35.5	10.86
Horizontal	450	-	24.7	35.5	10.8

GFSK								
Above 1GHz								
Cmin/Cnom/Cmax								
Polarization	Frequency (MHz)	Average Level (dB $\mu$ V/m)	Average Level + Duty Cycle Factor (dB $\mu$ V/m)	Average Limit (dB $\mu$ V/m)	Average Margin Level (dB $\mu$ V/m)	Peak Level (dB $\mu$ V/m)	Peak Limit (dB $\mu$ V/m)	Peak Margin Level (dB $\mu$ V/m)
Horizontale	2390	37.52	39.752	54	14.248	48.45	74	25.55
Verticale	2390	37.04	39.272	54	14.728	47.93	74	26.07
Horizontale	2483.5	40.52	42.752	54	11.248	50.93	74	23.07
Verticale	2483.5	37.71	39.942	54	14.058	49.99	74	24.01
Verticale	3137	31.04	33.272	54	20.728	40.82	74	33.18



L C I E

<b><math>\pi/4</math> DQPSK</b>								
<b>Above 1GHz</b>								
<b>Cmin/Cnom/Cmax</b>								
<b>Polarization</b>	<b>Frequency (MHz)</b>	<b>Average Level (dB<math>\mu</math>V/m)</b>	<b>Average Level + Duty Cycle Factor (dB<math>\mu</math>V/m)</b>	<b>Average Limit (dB<math>\mu</math>V/m)</b>	<b>Average Margin Level (dB<math>\mu</math>V/m)</b>	<b>Peak Level (dB<math>\mu</math>V/m)</b>	<b>Peak Limit (dB<math>\mu</math>V/m)</b>	<b>Peak Margin Level (dB<math>\mu</math>V/m)</b>
Horizontale	2390	37.53	39.762	54	14.238	48.98	74	25.02
Verticale	2390	36.73	38.962	54	15.038	48.09	74	25.91
Horizontale	2483.5	40.04	42.272	54	11.728	50.82	74	23.18
Verticale	2483.5	38.13	40.362	54	13.638	49.39	74	24.61
Verticale	3137	31.17	33.402	54	20.598	40.75	74	33.25

<b>8DPSK</b>								
<b>Above 1GHz</b>								
<b>Cmin/Cnom/Cmax</b>								
<b>Polarization</b>	<b>Frequency (MHz)</b>	<b>Average Level (dB<math>\mu</math>V/m)</b>	<b>Average Level + Duty Cycle Factor (dB<math>\mu</math>V/m)</b>	<b>Average Limit (dB<math>\mu</math>V/m)</b>	<b>Average Margin Level (dB<math>\mu</math>V/m)</b>	<b>Peak Level (dB<math>\mu</math>V/m)</b>	<b>Peak Limit (dB<math>\mu</math>V/m)</b>	<b>Peak Margin Level (dB<math>\mu</math>V/m)</b>
Horizontale	2390	37.37	39.6	54	14.4	48.84	74	25.16
Verticale	2390	37.01	39.24	54	14.76	48.62	74	25.38
Horizontale	2483.5	40.61	42.84	54	11.16	50.57	74	23.43
Verticale	2483.5	38.11	40.34	54	13.66	49.61	74	24.39
Verticale	3137	31.06	33.29	54	20.71	40.60	74	33.4

### 13.7. CONCLUSION

Unwanted Emission in restricted frequency bands measurement performed on the sample of the product **TECHNICOLOR UIW4059MIL**, SN: **LAB3-V0 nr.030**, 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) $\pm x(\text{dB}) / (\text{Hz}) /$ 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