FCC Test Firm Designation Number: FR0014
ISED Wireless Device Testing Laboratory CAB Number: FR0004

Matériel testé : *Equipment under test*:	**EDITAG / mOOnTAG** *(Trademark / Marketing name or product reference)*

Demandeur de certification :
Applicant for certification:
EDITAG
Europarc Sainte-Victoire Bât 12, Route de Valbrillant,
13590 Meyreuil – France

Client :
Customer:
ALWAYS WIRELESS
Batiment Epicentre,
38660 Saint-Vincent-de-Mercuze – France

Numéro d'affaire :
Work number :
OF-10021

Référence de la proposition :
Proposal number:
012022-25243-1

Date de l'essai :
Date of test:
Le 11 janvier 2024
January 11th, 2024

Objectif des essais :
Test purpose:
EMC qualification accordingly to following standards:
- CFR 47, FCC Part 15, Subpart C
(Chapter 15.247 - Operation within the bands 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz)
- Industry Canada RSS-247, Issue 3
(Digital Transmission Systems Operating in the Bands 902–928 MHz)
Measurement standards:
ANSI C63.10 (2013)

Lieu du test:
Test location:
SMEE - 385 rue René Rambaud, ZA le Parvis 2
38500 VOIRON - France

Test réalisé par :
Test realized by:
Chemseddine KERMICHE

Conclusion :
Conclusion:
L'équipement satisfait aux prescriptions et essais des normes citées en référence.
The appliance complies with requirements and tests of above mentioned standards.

Ed.	Date	Modifications / Pages	Written by : Visa	Approved by: Visa
1	January 23, 2024	Initial Edition	Chemseddine KERMICHE *Test operator*	Laurent Chapus *Technical Manager*

Contents

1. Normatives References

FCC qualification according to:		
Standards	**Applied**	**Title**
ANSI C63.10 (2013)	X	American National Standard for Testing Unlicensed Wireless Devices
CFR47, Part 15 (January 2024)	X	Telecommunication – Federal Communication Commission – Radio frequency devices, Sections 15.109 / 15.209 / 15.247

ISED qualification according to:		
Standards	**Applied**	**Title**
RSS-Gen (Issue 5/2018, amendments 2019 and 2021)	X	General Requirements and Information for the Certification of Radio Apparatus
RSS-247 (Issue3/2023)	X	Digital Transmission Systems (DTSs), Frequency Hopping Systems (FHSs) and Licence-Exempt Local Area Network (LE-LAN) Devices

Note: Following guidance are used

- DTS Measurement Guidance 558074 D01 v05r02
- Determining ERP and EIRP Guidance 412172 D01 v01r01

Deviation from standard: None.

2. Test synthesis

TEST	Paragraph number FCC Part 15 / ISED ICES & RSS	Spec. FCC Part 15 / ISED ICES & RSS	RESULTS (comments)
Conducted emissions test	15.207 (a) RSS-Gen § 8.8	Table 15.207 (a) Table 4 / RSS-Gen	**N/A** (1)
6dB Bandwidth	15.247 (a) (2) RSS-247 § 5.2 (a)	At least 500kHz	**PASS**
Maximum Peak Output Power	15.247 (b) (3) & (4) RSS-247 § 5.4 (d)	1W max / 30dBm (Conducted) 4W max / 36dBm (EIRP)	**PASS**
Maximum Power Spectral Density	15.247 (e) RSS-247 § 5.2 (b)	8dBm in a 3kHz band segment	**PASS**
Unwanted emissions into Non Restricted Frequency Bands	15.247 (d) / RSS-247 § 5.5	-20dBc in any 100kHz outside frequency band.	**PASS**
Unwanted emissions into Restricted Frequency Bands	15.209 (a) / 15.247 (d) / 15.205 (a) RSS-GEN §8.9, § 8.10 / RSS-247 § 5.5	Measure at 300m 9-490kHz: 2400µV/m/F(kHz) 6.370µA/m/F (kHz) Measure at 30m 0.490-1.705: 24000µV/m/F(kHz) 63.70µA/m/F (kHz) 1.705-30MHz: 30µV/m 0.08µA/m Measure at 3m 30MHz-88MHz : 40 dBµV/m 88MHz-216MHz : 43.5 dBµV/m 216MHz-960MHz : 46.0 dBµV/m Above 960MHz : 54.0 dBµV/m	**PASS**
Occupied Bandwidwth	RSS-GEN § 6.7	BW at 99%	**PASS**
Antenna requirement	FCC 15.203 RSS-GEN § 6.8		**PASS**

(1): Batterie powered equipment

- **General conclusion:**

Measures and tests performed on the sample of the product EDITAG / mOOnTAG, in configuration and description presented in this test report, show compliance with standards FCC CFR 47, PART 15, Subpart C and RSS-Gen & RSS-247.

3. Equipment Under Test (EUT)

Nom / *Identification*	**EDITAG / mOOnTAG** *(Trademark / Marketing name or product reference)*	SN: 0B8A1CCE.

FCC ID: 2BDZ8-0411U
IC: 31762-0411U
Product name / PMN: mOOnTAG
Model / HVIN: mOOnTAG
Firmware version / FVIN 3311

Alimentation / *Power supply* DC 3.6V from two internal batteries, model: EVE ER17505

Auxiliaires / *Auxiliaries* None.

Entrées-Sorties / *Input / Output*

	Câbles pour essai / *Cables for test*	Blindé / *Shielded*	Prévu pour >3m / *Intended for >3m*
None.	-	-	-

Mode de fonctionnement / *Running mode*

Equipment running modes are:

- Transmit a modulated carrier frequency at 905.25MHz, 915.25MHz and 925.25MHz

Programme de test / *Test program /* None.

Informations supplémentaires / *Additional informations*

Declaration of the applicant:
- Type of technology: Proprietary RF protocol
- Frequency transmission band: 902-928MHz.
- 41 channels used in DTS mode from 905.25 to 925.25MHz / Spacing 500kHz
- Power setting: 10dBm
- Modulation: CSS (LORA) with 500kHz nominal BW
- Equipment intended for use as a mobile station
- Equipment designed for continuous operation
- Antenna type: PCB antenna with max gain 3.6dBi

Dimensions de l'EST / *Dimensions of EUT* 114mm x 55 x 33

Note: The above information are declared by the manufacturer/customer and are under his responsibility.

4. Test conditions

Power supply voltage:
Equipment under test: DC 3.6V from two internal batteries
Auxiliaries: None.

5. Modifications of the EUT

None.

6. Special accessory

None.

7. Measurement Uncertainty

Test Description	Expanded uncertainty
Conducted emissions test (150k-30MHz, AC mains)	± 3.5dB
Radiated emission test (9kHz-30MHz, electric field)	± 4.0dB
Radiated emission test (30-200MHz, SAC 3m)	± 5.6dB
Radiated emission test (200-1000MHz, SAC 3m)	± 5.3dB
Radiated emission test (1-18GHz, FAC 3m)	± 5.6dB
Radiated emission test (18-40GHz, FAC 3m)	± 5.6dB
Conducted RF output power at antenna port	± 1.6dB
Radiated RF output power (Peak, Power density)	± 5.6dB
DTS Bandwidth, 99% OBW	±4%
Temperature	± 1°C
Time and duty cycle calculation	±1%
AC and DC voltage	±1%

Note: Expended uncertainty at 95% confidence (k=2).

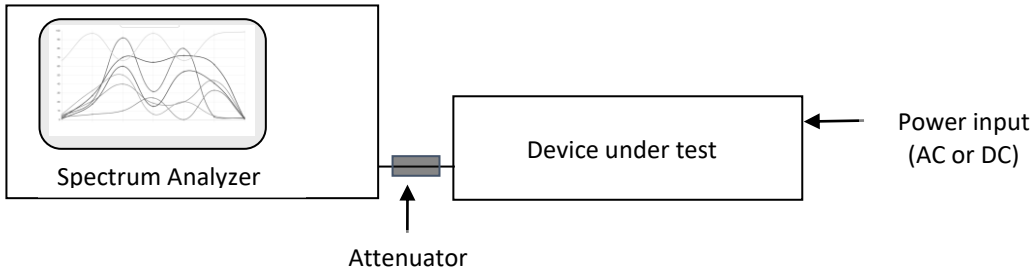
8. Field Strength Calculation

The field strength (level) is calculated by adding the Antenna Factor and Cable Factor, and subtracting the Amplifier Gain (if any) from the measured reading. The basic equation is as follow:
FS = RA + AF + CF – AG
Where FS = Field Strength (Level)
RA = Receiver Amplitude (Meter Reading)
AF = Antenna Factor
CF = Cable Factor
AG = Amplifier Gain
Margin value = Emission level – Limit value

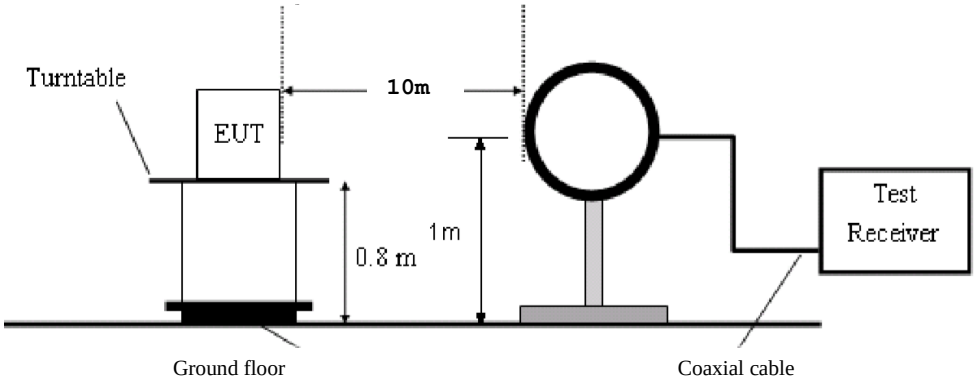
Example:
RA: 14.0dBµV / AF: 16.5 dBm^{-1} / CF: 3.5dB / AG: 15dB
→ Total factor: $5dBm^{-1}$
→ Field level: 19.0dBµV/m (-21.0dB for margin if limit is 40dBµV/m)

9. Test Setup Diagram

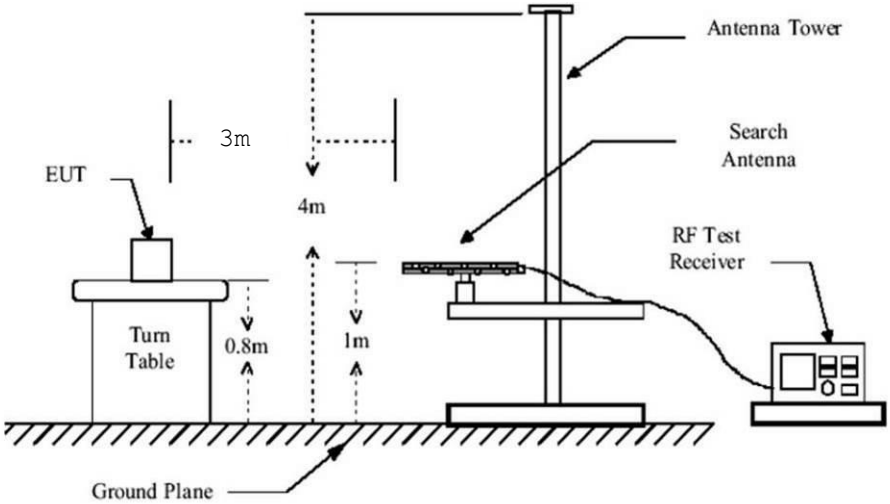
Test Setup for conducted antenna port measurement



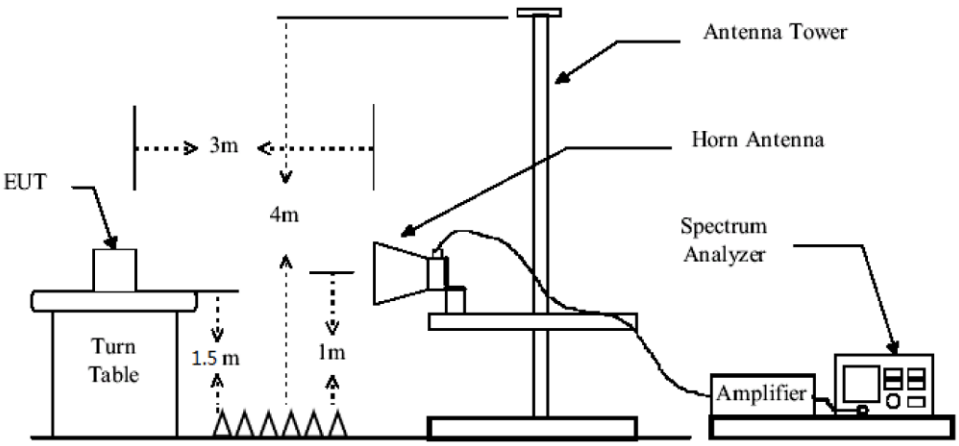
Test Setup for radiated emission



Test setup for 9k-30MHz (FS OATS)



Test setup for 30-1000MHz (SAC 3m)



Test setup for 1-10GHz (SAC 3m, tilt antenna mast used)

10. Test Equipment List

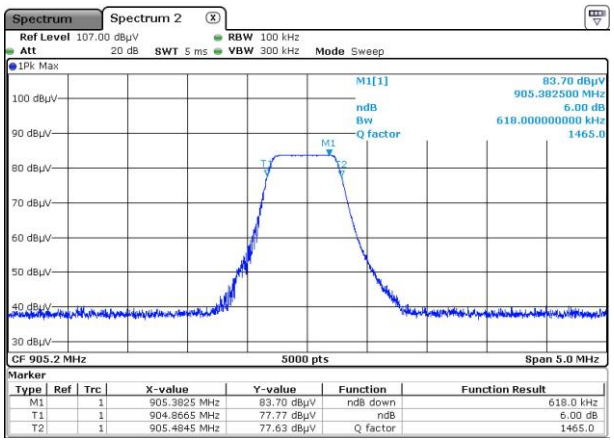
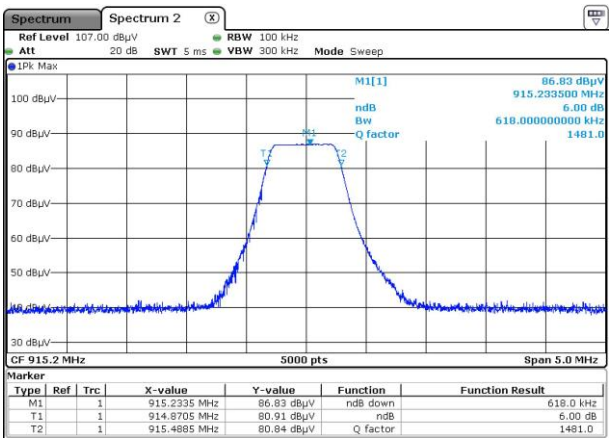
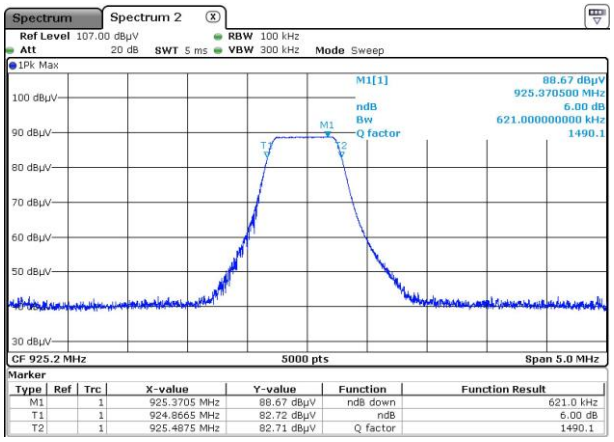
Test Equipment Used for conducted antenna port measurement					
Description	**Manufacturer**	**Model**	**ID**	**Date Cal.**	**Nxt. Cal.**
Measuring receiver	Rohde&Schwarz	ESRP	REC-151-002	2021/12	2024/5
Spectrum analyzer	Rohde&Schwarz	FSV40	ASP-171-004	2021/10	2024/4
RF Attenuator	Mini-Circuit	BW-N10W5+	ATT-171-008	2023/4	2024/4
EMC Software	NEXIO	BAT EMC	SOF-101-001	-	-

Test Equipment Used for radiated measurement					
Description	**Manufacturer**	**Model**	**ID**	**Date Cal.**	**Nxt. Cal.**
Log-periodic antenna	EMCO	3146	ANT-191-019	2021/7	2024/1
Biconnic antenna	COM-POWER	AB- 900A	ANT-201-021	2023/1	2025/1
Horn antenna	COM-POWER	AH-118	ANT-101-004	2021/7	2024/7
Loop antenna	EMCO	6502	ANT-101-009	2023/9	2025/9
RF cable	HUBER+SUHNER	SF126E / 2m	CAB-231-043	2023/4	2024/4
RF cable	HUBER+SUHNER	SF104E / 5.3m	CAB-231-044	2023/4	2024/4
RF cable	HUBER+SUHNER	SF126E / 7m	CAB-231-045	2023/4	2024/4
Semi anechoic room	COMTEST	218292	CAG-201-002	2022/4	2025/2
High-Pass filter	Wainwright Inst.	HK6-948-1200	FIL-141-004	2023/4	2024/4
Antenna mast	Innco- Systems	MA4640-XP-ET	MAT-201-002	-	-
Turntable	Innco- Systems	CT0800	PLA-141-001	-	-
Turntable	Innco- Systems	DS1500-S-1t	PLA-201-003	-	-
Pre-amplifier	COM-POWER	1-18GHz	PRE-221-005	2023/4	2024/4
Measuring receiver	Rohde&Schwarz	ESRP	REC-151-002	2021/12	2024/5
Spectrum analyzer	Rohde&Schwarz	FSV40	ASP-171-004	2021/10	2024/4
FS OATS	Div	10m	SIT-201-002	-	-
EMC Software	NEXIO	BAT EMC	SOF-101-001	-	-

11. 6dB Bandwidth

TEST: 6dB Bandwidth		**Verdict**
Method: The setup is in an anechoic chamber. The spectrum analyzer is connected to the antenna port of the device under test. A conducted measurement is performed. The tested equipment is set to transmit operation with modulation on its nominal channel		**Pass**
Laboratory Parameters:	Required prior to the test	During the test
Ambient Temperature	17 to 27°C	21°C ± 2
Relative Humidity	25 to 65 %	42% ± 5
Limits – FCC Part 15.247 (a) / RSS-247 §5.2 (a)		
Frequency (MHz)	**Level for Bandwidth**	**Limit**
905.25 / 915.25 / 925.25	6dB below the maximum output power	At least 500kHz
Supplementary information: Test location: SMEE Test date: January 11th, 2024 by C. KERMICHE. Power supply voltage: DC 3.6V from two internal batteries		

Tabulated Results for Occupied Bandwidth		
Frequency (MHz)	**6dB Bandwidth** (kHz)	**Result**
905.25	618.0	**Pass**
915.25	618.0	**Pass**
925.25	621.0	**Pass**

Graphical representation of 6dB Bandwidth	
 *Low*	 *Middle*
 *High*	

RBW :	100kHz
Measurement detector :	Peak

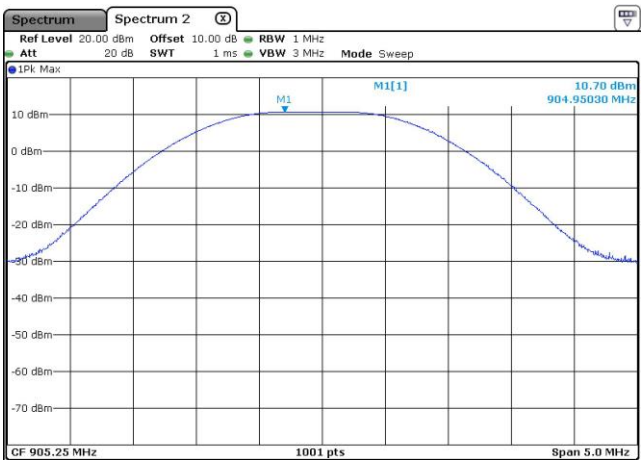
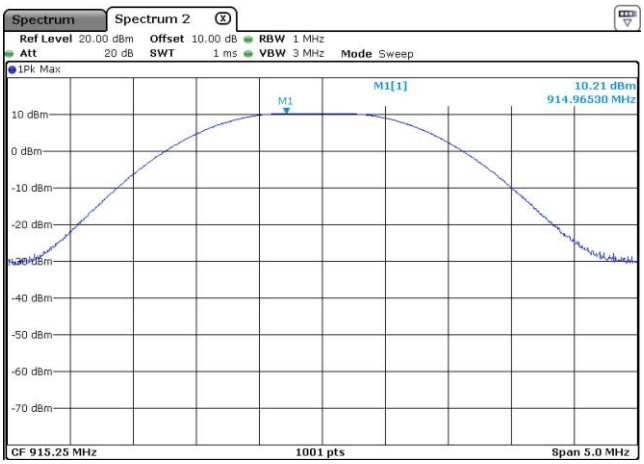
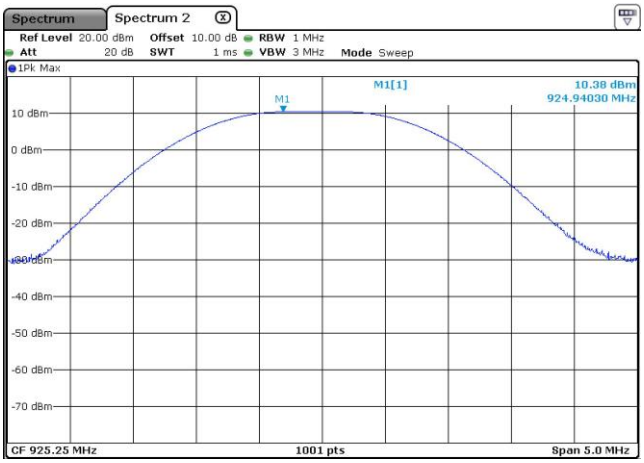
12. Fundamental emission output power

TEST: Maximum conducted output power		**Verdict**
Method: The setup is in an anechoic chamber. The spectrum analyzer is connected to the antenna port of the device under test. A conducted measurement is performed. The tested equipment is set to transmit operation with modulation on its nominal channel		**Pass**
Laboratory Parameters:	Required prior to the test	During the test
Ambient Temperature	17 to 27°C	21°C ± 2
Relative Humidity	25 to 65 %	42% ± 5

Limits – FCC Part 15.247 (b) / RSS-247 §5.4		
Frequency (MHz)	Limits	
	Level	Results
905.25 / 915.25 / 925.25	30 dBm (Conducted) 36 dBm (Radiated, EIRP)	**Pass** **Pass**

Supplementary information:
Test location: SMEE
Test date: January 11th, 2024 by C. KERMICHE.
Power supply voltage: DC 3.6V from two internal batteries
Note: conducted measurement is performed with additional UFL connector on the PCB

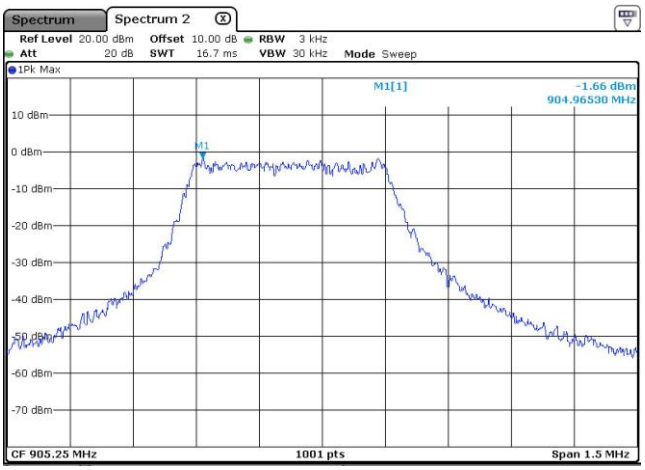
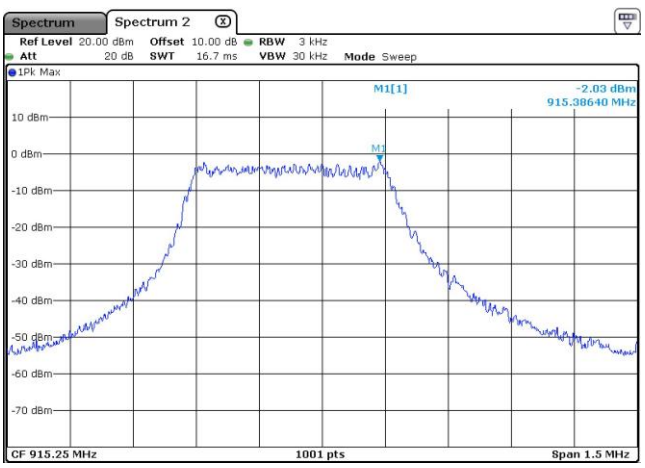
Tabulated Results for Maximum peak output power (Conducted & Radiated measurement)						
FREQ	**Conducted power**	**Antenna Gain**	**Radiated power E.I.R.P**	**Conducted Limit**	**Radiated Limit**	**Result**
(MHz)	(dBm)	(dBi)	(dBm)	(dBm)	(dBm)	
905.25	**10.7**	+3.6	**14.3**	30.0	36.0	**Pass**
915.25	**10.2**	+3.6	**13.8**	30.0	36.0	**Pass**
925.25	**10.4**	+3.6	**14.0**	30.0	36.0	**Pass**
RBW:		1MHz				
Measurement distance:		3m				
Limit:		FCC Part 15.247 / RSS-247				
Measurement detector:		Peak				
RESULT:		PASS				
Note:		EIRP is calculated using the following equation: EIRP = Conducted power (dBm) + Antenna Gain (dBi) Where Antenna gain = 3.6 dBi.				

Graphical representation of Maximum Peak output power (conducted)	
	
Low	Middle
	
High	

13. Maximum Power Spectral Density Level in the fundamental emission

TEST: Maximum Peak Power Spectral Density		**Verdict**
Method: The setup is in an anechoic chamber. The spectrum analyzer is connected to the antenna port of the device under test. A conducted measurement is performed. The tested equipment is set to transmit operation with modulation on its nominal channel		**Pass**
Laboratory Parameters:	Required prior to the test	During the test
Ambient Temperature	17 to 27°C	22°C ± 2
Relative Humidity	25 to 65 %	45% ± 5
Limits – FCC Part 15.247 (e) / RSS-247 §5.2 (b)		
Frequency (MHz)	**Level**	**Limit**
905.25 / 915.25 / 925.25	8 dBm/3kHz	**Pass**
Supplementary information: Test location: SMEE Test date: January 11th, 2024 by C. KERMICHE. Power supply voltage: DC 3.6V from two internal batteries. Note: conducted measurement is performed with additional UFL connector on the PCB		

Tabulated Results for Maximum Conducted Power Spectral Density			
Frequency (MHz)	**PSD (dBm/3kHz)**	**Limit**	**Result**
905.25	-1.7	8dBm/3kHz	**Pass**
915.25	-2.0	8dBm/3kHz	**Pass**
925.25	-1.9	8dBm/3kHz	**Pass**
RBW:	3kHz		
Limit:	FCC Part 15.247 / RSS-247		
Final measurement detector:	Peak		
RESULT:	PASS		

Graphical representation for Maximum Power Spectral Density	
	
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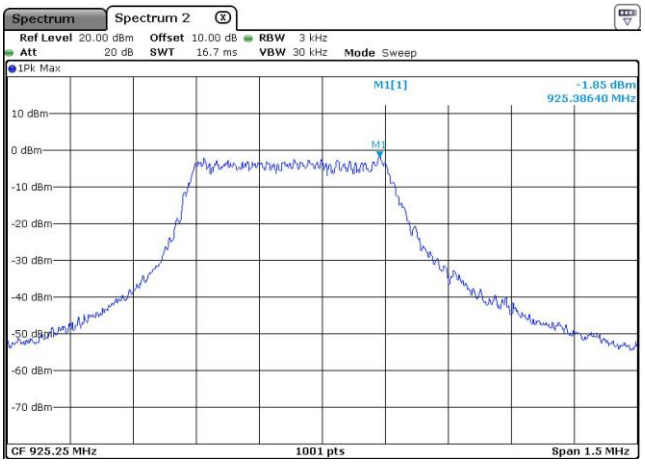
	
High	

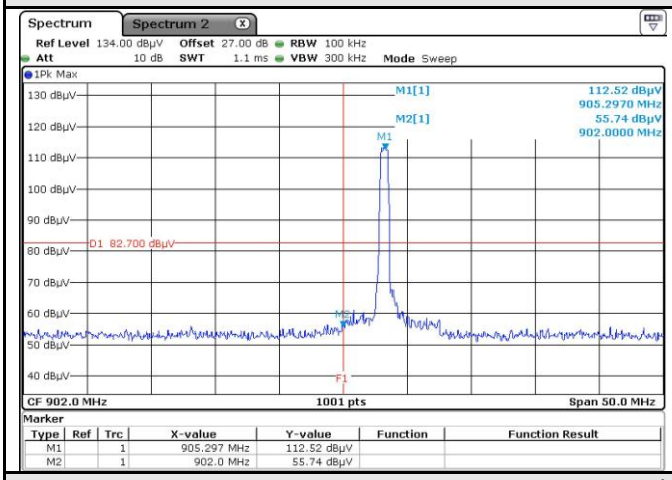
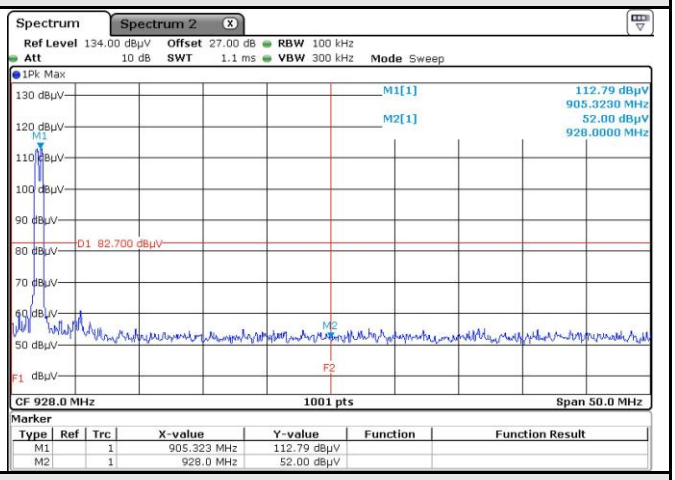
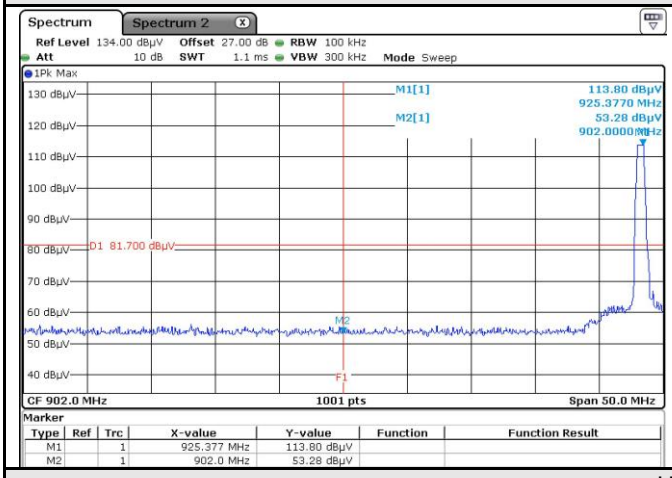
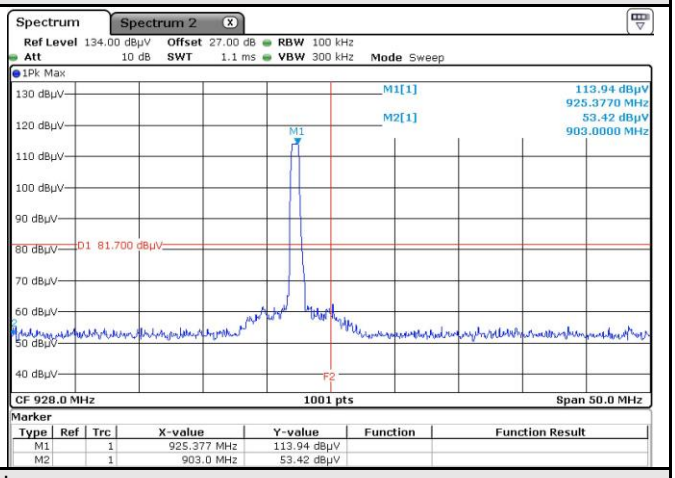
RBW:	3kHz
Limit:	FCC Part 15.247 / RSS-247
RESULT:	PASS

14. Unwanted emissions in Non-Restricted Frequency bands (Radiated emissions)

<table>
<tr><td colspan="3">TEST: Unwanted emissions in Non-Restricted Frequency Bands</td><td>Verdict</td></tr>
<tr><td colspan="3">Method: Measurements were made in a 3-meter Semi Anechoic Room (SAR) up to 1GHz and in a 3-meter Full Anechoic environment (SAR with floor absorbers) above 1GHz.
The Semi Anechoic Room complies with CISPR16-1-4 / ANSI C63.4 requirements.
Preliminary (peak) measurements were performed at an antenna to EUT separation distance of 3 meter. The EUT was rotated 360° about its azimuth with the receive antenna located at various heights in horizontal and vertical polarities. The pre-characterization graphs are obtained in PEAK detection.
Final measurements (Peak, Quasi-peak, Average) were then performed by rotating the EUT 360° and adjusting the receive antenna height from 1 to 4 m. All frequencies were investigated in both horizontal and vertical antenna polarity, where applicable.
Three orthogonal axis measurements on EUT are performed to obtain the maximum peak field strength.</td><td>Pass</td></tr>
<tr><td>Laboratory Parameters:</td><td>Required prior to the test</td><td>During the test</td></tr>
<tr><td>Ambient Temperature</td><td>17 to 27°C</td><td>22°C ± 2</td></tr>
<tr><td>Relative Humidity</td><td>25 to 65 %</td><td>38% ± 5</td></tr>
<tr><td rowspan="2">Fully configured sample scanned over the following frequency range</td><td>Frequency range on each side of line</td><td>Measurement Point</td></tr>
<tr><td>30MHz – 10GHz</td><td>3 m measurement distance</td></tr>
<tr><td colspan="3">Limits – FCC Part 15.247 (d) / RSS-247 § 5.5</td></tr>
<tr><td rowspan="2">Frequency (MHz)</td><td colspan="2">Limits (dBµV/m)</td></tr>
<tr><td>Detector / Analyser RBW</td><td>Limit</td><td>Results</td></tr>
<tr><td>30 to 10000</td><td>Pk / 100kHz</td><td>20dB below the maximum Peak level</td><td>Pass</td></tr>
<tr><td colspan="4">Supplementary information:
Test location: SMEE
Test date: January 11th, 2024 by C. KERMICHE.
Power supply voltage: DC 3.6V from two internal batteries</td></tr>
</table>

Tabulated Results for Peak Output Radiated level	
FREQ	**Field Strength 3m**
(MHz)	(dBµV/m)
905.2	112.7
915.2	113.7
925.2	113.4
RBW:	100kHz
Measurement distance:	3m
Limit:	Ref. level only – For 15.247 (d) / RSS-247 § 5.5
Final measurement detector:	Peak
Note:	(1): Only for identification of limit in non-restricted band Limit is **92.7 dBµV/m** Peak for out-of-band frequencies in Non-Restricted bands (with a 100kHz RBW on the spectrum analyser)

Tabulated Results for Unwanted emissions in Non-Restricted bands				
FREQ (MHz)	**Field Strength 3m** (dBµV/m)	**Limit** (dBµV/m)	**Margin** (dBµV/m)	**Result** (dBµV/m)
Levels are at least 10 dB below the -20dBc limit See pre-scan graphs in chapter 17.				
RBW:	100kHz			
Measurement distance:	3m			
Limit:	15.247 / RSS-247			
Final measurement detector:	Peak			
RESULT:	PASS			
Note:	3-axis measurement performed for device under test.			

Graphical representation of Band-edge compliance	
	
Low	
	
High	
Unit :	dBµV
RBW :	100kHz
Measurement detector:	Peak
Limit:	92.7 dBµV/m
Note:	F1 is set to 902MHz and F2 is set to 928MHz

15. Unwanted emissions in Restricted Frequency bands

TEST: Unwanted emissions into Restricted Frequency Bands			**Verdict**
Method: Measurements were made in a 3-meter Semi Anechoic Room (SAR) for frequency 30MHz to 1GHz and in a 3-meter Full Anechoic environment (SAR with floor absorbers) above 1GHz. The Semi Anechoic Room complies with CISPR16-1-4 / ANSI C63.4 requirements. For frequency 9kHz to 30MHz, measurements are performed on a free-space open area test site at 10m distance. Preliminary (peak) measurements were performed at an antenna to EUT separation distance of 3 meter. The EUT was rotated 360° about its azimuth with the receive antenna located at various heights in horizontal and vertical polarities. Final measurements (Peak, Quasi-peak, Average) were then performed by rotating the EUT 360° and adjusting the receive antenna height from 1 to 4 m. All frequencies were investigated in both horizontal and vertical antenna polarity, where applicable. Three orthogonal axis measurements on EUT are performed to obtain the maximum peak field strength.			**Pass**
Laboratory Parameters:	Required prior to the test	During the test	
Ambient Temperature	17 to 27°C	21°C ± 2	
Relative Humidity	25 to 65 %	33% ± 5	
Fully configured sample scanned over the following frequency range	Frequency range on each side of line	Measurement Point	
	9kHz – 30MHz	10 m measurement distance	
	30MHz – 10GHz	3 m measurement distance	

Limits – FCC Part 15.205, 15.209 (a), 15.247 (d) / RSS-GEN §8.9, §8.10, RSS-247 §5.5

Frequency (MHz)	Limits (dBµV/m)	
	Level / Detector / Distance	Results
0.009 to 0.090	107.6 – 87.6 / AV / 10m 127.6 – 107.6 / PK / 10m	**Pass**
0.090 to 0.110	87.6 – 85.9 / QP / 10m	**Pass**
0.110 to 0.490	85.7 – 72.9 / AV / 10m 105.7 – 92.9 / PK / 10m	**Pass**
0.490 to 1.705	52.9 – 42.1 / QP / 10m	**Pass**
1.705 to 30	48.6 / QP / 10m	**Pass**
30 to 88	40.0 / QP / 3m	**Pass**
88 to 216	43.5 / QP / 3m	**Pass**
216 to 960	46.0 / QP / 3m	**Pass**
960-1000	54.0 / QP / 3m	**Pass**
Above 1GHz	54.0 / AV / 3m 74.0 / PK / 3m	**Pass**

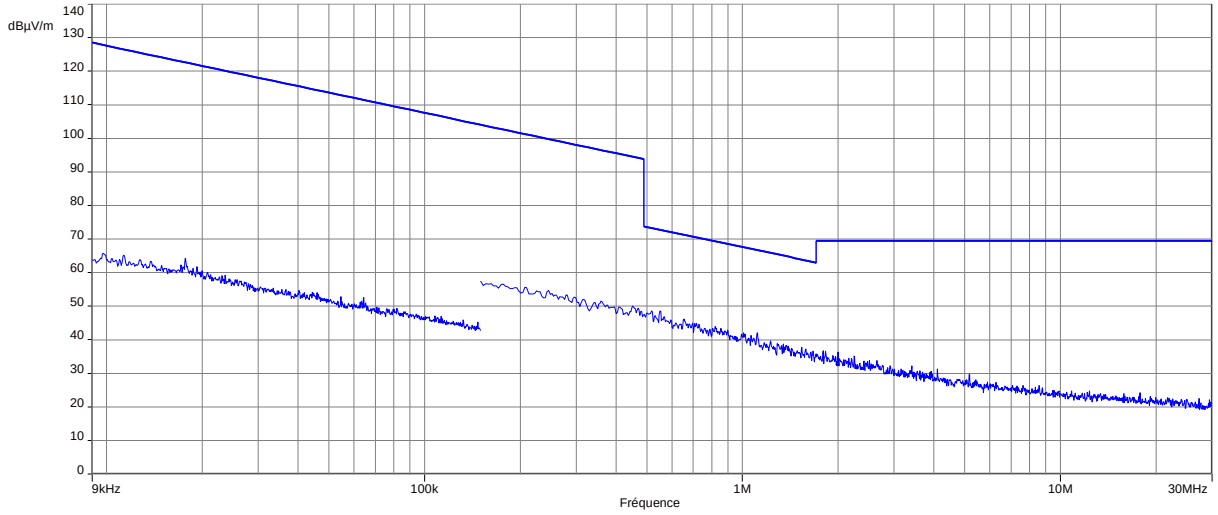
Supplementary information:
Test location: SMEE
Test date: January 11th, 2024 by C. KERMICHE.
Power supply voltage: DC 3.6V from two internal batteries

Tabulated Results for Unwanted emissions (9kHz-490kHz)							
FREQ	**RF field @ 300m**	**Limit @ 300m**	**Detector**	**Margin**	**Ant. angle**	**Table angle**	**Correc. Fact. (CF)**
MHz	dBµV/m	dBµV/m	Pk / QP / AV	dB	Degree	Degree	dB
All levels are at least 10dB below applicable limits							
Supplementary information: Frequency list measured has been created with pre-scan results.							
Frequency band investigated:	9kHz-490kHz						
RBW:	200Hz (9kHz-150kHz) 9kHz (150kHz-30MHz)						
Measurement distance:	10m						
Final measurement detector:	Peak / Quasi-Peak / Average						
Limit:	FCC Part 15.209 / RSS-Gen						
Note:	CF: Correction factor = Antenna factor + Cable loss *1: Measure have been done at 10m distance and corrected according to requirements of 15.209.e / RSS-Gen clause 6.5) (M@300m = M@10m-59.1dB) Loop antenna used and rotated about its axis to maximize any emission.						

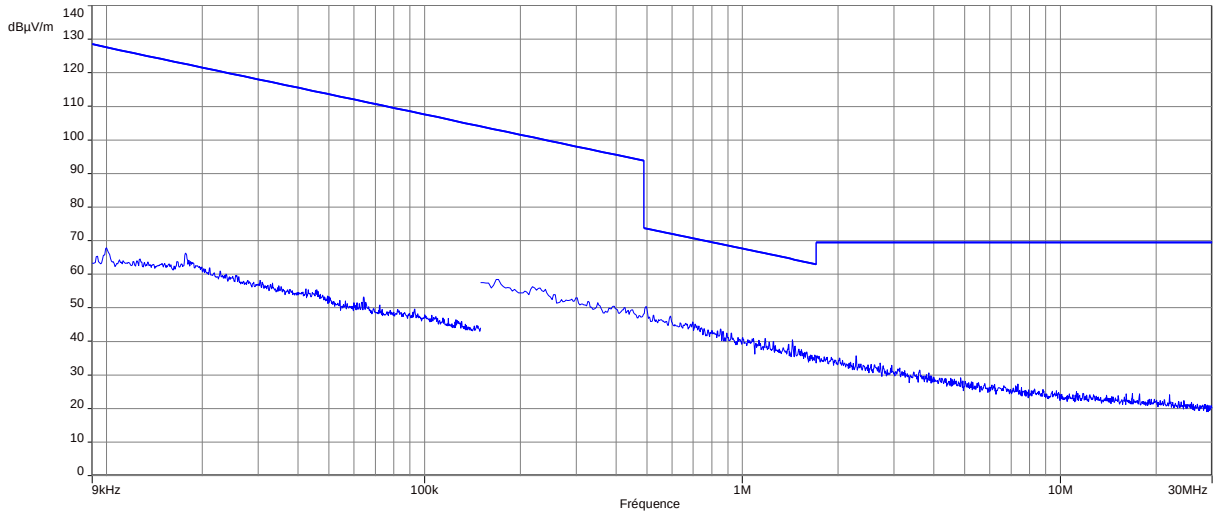
Tabulated Results for Unwanted emissions (490kHz-30MHz)							
FREQ	**RF field @ 30m**	**Limit @ 30m**	**Detector**	**Margin**	**Ant. angle**	**Table angle**	**Correc. Fact. (CF)**
MHz	dBµV/m	dBµV/m	Pk / QP	dB	Degree	Degree	dB
All levels are at least 10dB below applicable limits							
Supplementary information: Frequency list measured has been created with pre-scan results.							
Frequency band investigated:	490kHz-30MHz						
RBW:	9kHz (150kHz-30MHz)						
Measurement distance:	10m						
Final measurement detector:	Quasi-Peak						
Limit:	FCC Part 15.209 / RSS-Gen						
Note:	CF: Correction factor = Antenna factor + Cable loss *1: Measure have been done at 10m distance and corrected according to requirements of 15.209.e / RSS-Gen clause 6.5) (M@30m = M@10m-19.1dB) Loop antenna used and rotated about its axis to maximize any emission.						

Graphical representation of Radiated Disturbance Measurement (Peak detection, Anechoic chamber pre-scan, 9kHz-30MHz / 3m / Parallel & Perpendicular antenna position / Transmit mode)

Parallel



Perpendicular

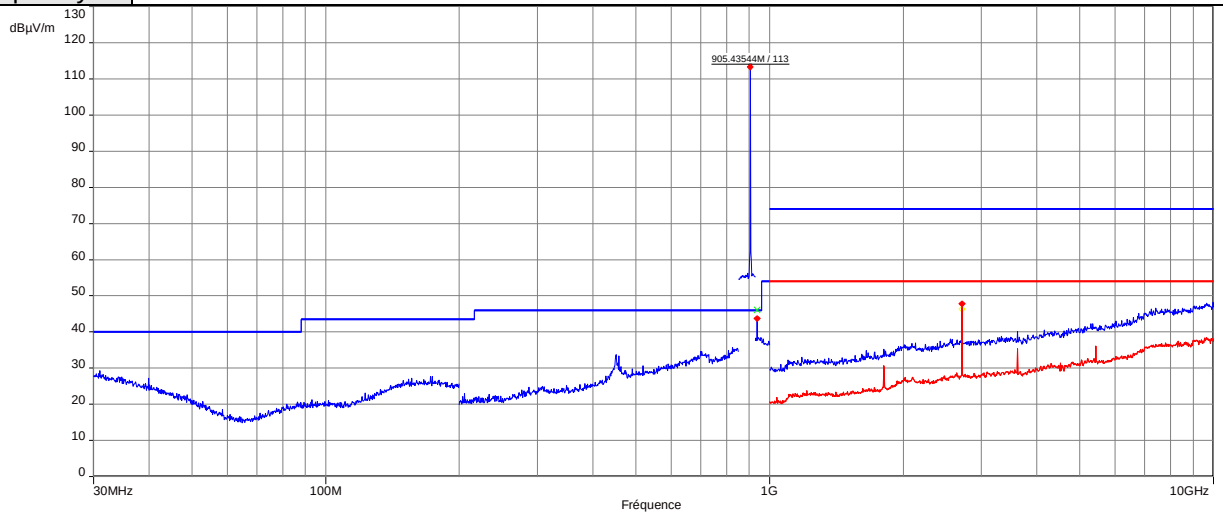


Frequency band investigated:	9kHz-30MHz
Unit :	dBµV/m
RBW :	200Hz (9kHz-150kHz) 9kHz (150kHz-30MHz)
Antenna polarization :	Parallel & Perpendicular to measurement axis.
Measurement detector:	Peak.
Notes:	Pre-scan graph only for identification purpose. Same result for all measured frequencies.

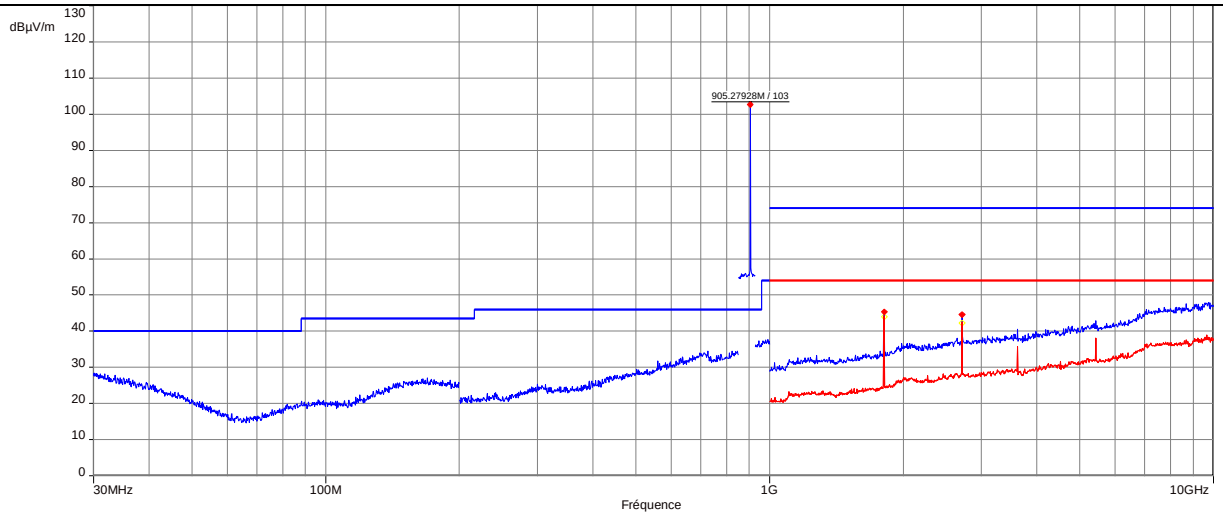
Graphical representation of Radiated Disturbance Measurement (Peak detection, Full Anechoic Chamber pre-scan, 30MHz-10GHz / 3m / Transmit mode / Worst position)

Center frequency: 905.25 MHz

HORIZONTAL POLARIZATION



VERTICAL POLARIZATION



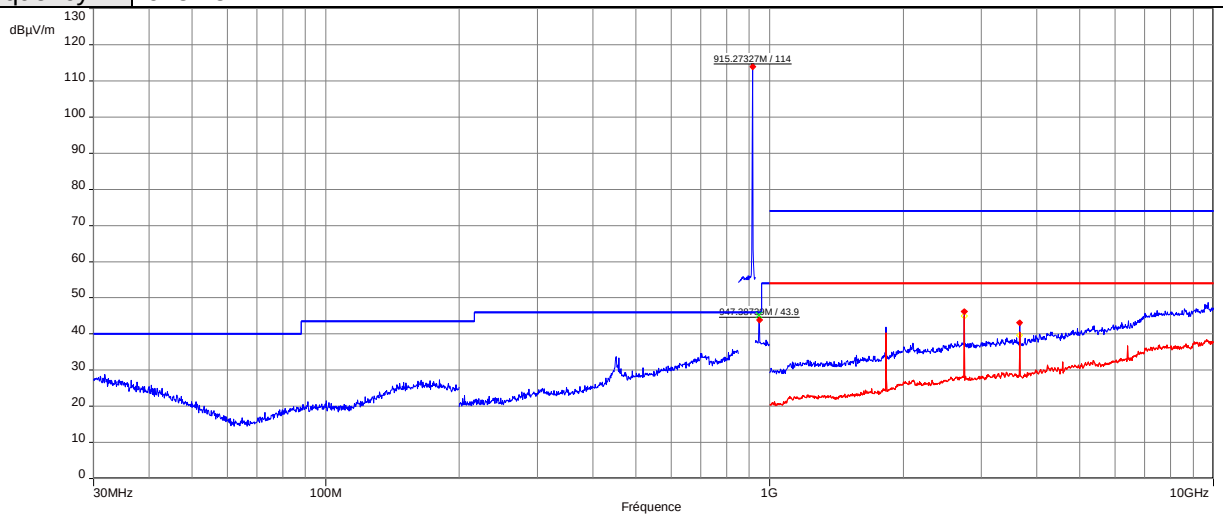
Frequency	Field Strength (PK)	Field Strength (QP or AV)	Limit (PK)	Margin (PK)	Limit (QP or AV)	Margin (QP or AV)	Table angle	Ant height	Result	Detector & Limit	Pol	Note
MHz	dBµV/m	dBµV/m	dBµV/m	dBµV/m	dB	dB	Degree	m				
937.05655	46.17	-	-	-	-	-	-	-	**Pass**	PK	H	(2)
2715.42851	38.38	25.31	74.00	-35.62	54.00	-28.69	182.70	2.02	**Pass**	PK / AVG	H	(1)
1810.58783	45.33	-	-	-	-	-	-	-	**Pass**	PK	V	(2)
2715.55266	42.51	27.41	74.00	-31.49	54.00	-26.59	118.90	1.09	**Pass**	PK / AVG	V	(1)

Frequency and Limit band:	30Mz-25GHz / FCC 15.209 / RSS-GEN
RBW and Limit detector:	Below 1GHz: RBW= 100kHz, Quasi-Peak Limit Above 1GHz: RBW= 1MHz, Peak and Average Limit
Note:	Pre-scan graph only for identification purpose. (1) Restricted band. (2) Non-Restricted band (Limit 20dB below the maximum Peak level)

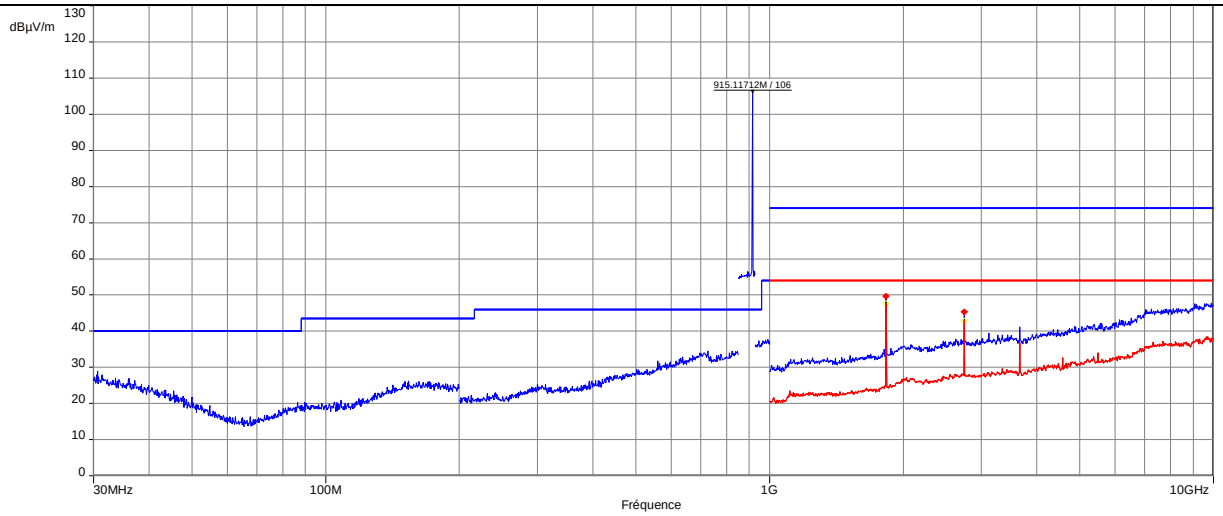
Graphical representation of Radiated Disturbance Measurement (Peak detection, Full Anechoic Chamber pre-scan, 30MHz-10GHz / 3m / Transmit mode / Worst position)

Center frequency: 915.25 MHz

HORIZONTAL POLARIZATION



VERTICAL POLARIZATION



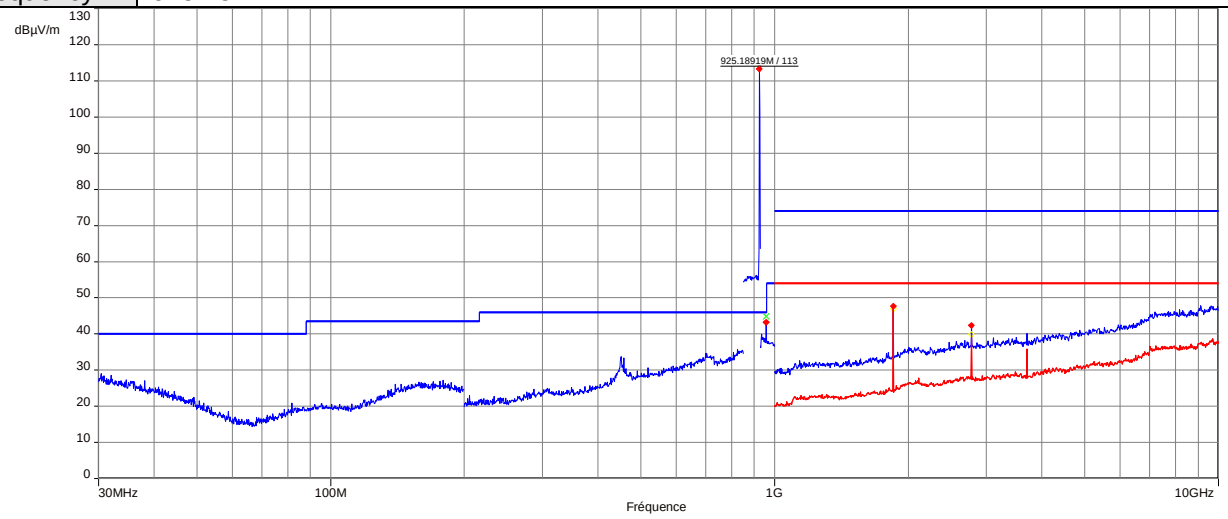
Frequency	Field Strength (PK)	Field Strength (QP or AV)	Limit (PK)	Margin (PK)	Limit (QP or AV)	Margin (QP or AV)	Table angle	Ant height	Result	Detector & Limit	Pol	Note
MHz	dBµV/m	dBµV/m	dBµV/m	dBµV/m	dB	dB	Degree	m				
947.17464	45.25	-	-	-	-	-	-	-	**Pass**	PK	H	(2)
2746.1709	46.44	37.86	74.00	-27.56	54.00	-16.14	359.40	1.11	**Pass**	PK / AVG	H	(1)
3660.04193	41.93	28.43	74.00	-32.07	54.00	-25.57	0.80	2.18	**Pass**	PK / AVG	H	(1)
1829.99469	49.65	-	-	-	-	-	-	-	**Pass**	PK	V	(2)
2745.95307	44.98	29.66	74.00	-29.02	54.00	-24.34	343.80	1.09	**Pass**	PK / AVG	V	(1)

Frequency and Limit band:	30Mz-25GHz / FCC 15.209 / RSS-GEN
RBW and Limit detector:	Below 1GHz: RBW= 100kHz, Quasi-Peak Limit Above 1GHz: RBW= 1MHz, Peak and Average Limit
Note:	Pre-scan graph only for identification purpose. (1) Restricted band. (2) Non-Restricted band (Limit 20dB below the maximum Peak level)

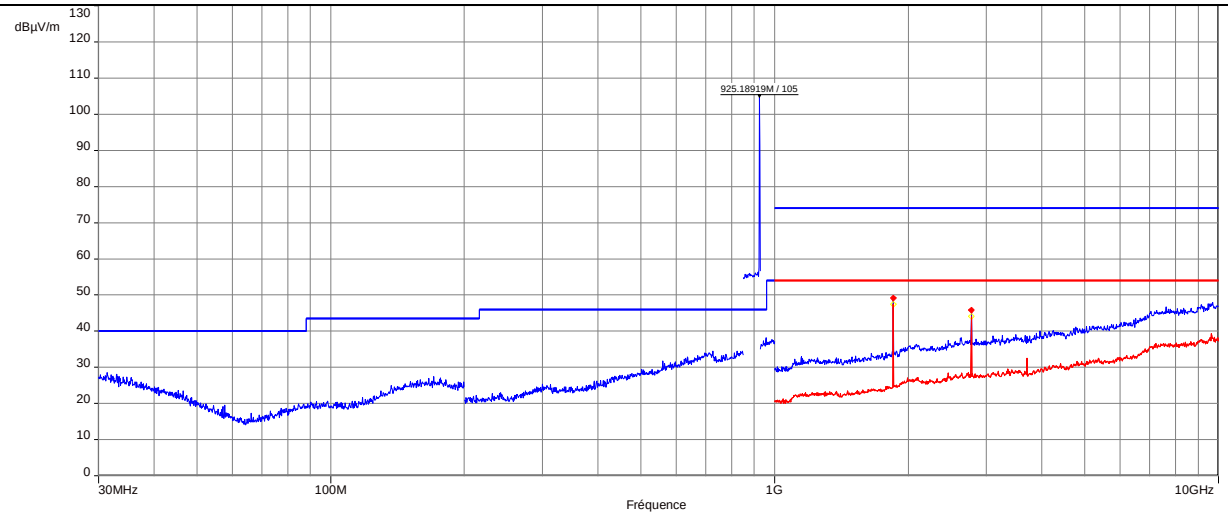
Graphical representation of Radiated Disturbance Measurement (Peak detection, Full Anechoic Chamber pre-scan, 30MHz-10GHz / 3m / Transmit mode / Worst position)

Center frequency: 925.25 MHz

HORIZONTAL POLARIZATION



VERTICAL POLARIZATION



Frequency	Field Strength (PK)	Field Strength (QP or AV)	Limit (PK)	Margin (PK)	Limit (QP or AV)	Margin (QP or AV)	Table angle	Ant height	Result	Detector & Limit	Pol	Note
MHz	dBµV/m	dBµV/m	dBµV/m	dBµV/m	dB	dB	Degree	m				
957.12208	44.88	-	-	-	-	-	-	-	**Pass**	-	H	(2)
1850.46355	47.65	-	-	-	-	-	-	-	**Pass**	-	H	(2)
2775.51351	37.99	27.76	74.00	-36.01	54.00	-26.24	28.20	1.11	**Pass**	PK / AVG	V	(1)
1849.6828	49.13	-	-	-	-	-	-	-	**Pass**	PK	V	(2)
2776.18502	48.01	30.80	74.00	-25.99	54.00	-23.20	358.00	1.09	**Pass**	PK / AVG	V	(1)

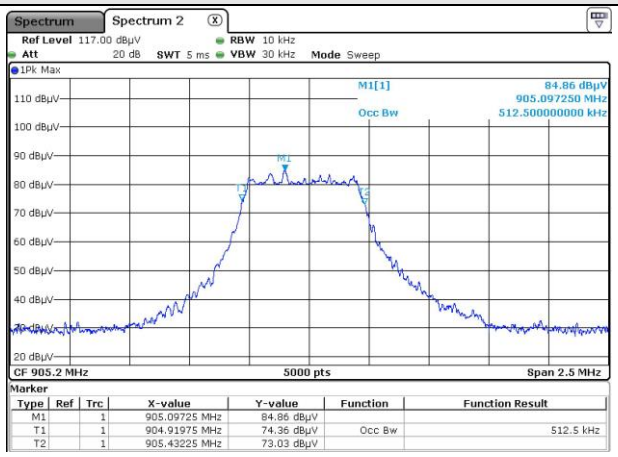
Frequency and Limit band:	30Mz-25GHz / FCC 15.209 / RSS-GEN
RBW and Limit detector:	Below 1GHz: RBW= 100kHz, Quasi-Peak Limit Above 1GHz: RBW= 1MHz, Peak and Average Limit
Note:	Pre-scan graph only for identification purpose. (1) Restricted band. (2) Non-Restricted band (Limit 20dB below the maximum Peak level).

16. Occupied bandwidth (99%)

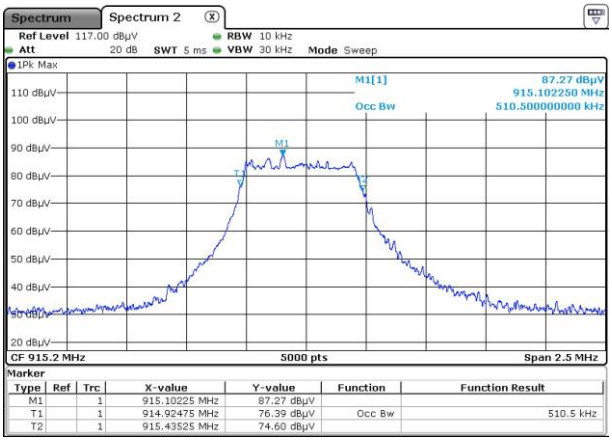
TEST: Occupied bandwidth (99%) / RSS-GEN		**Verdict**
Method: The setup is in an anechoic chamber. The spectrum analyzer is connected to the antenna port of the device under test. A conducted measurement is performed. The tested equipment is set to transmit operation with modulation on its nominal channel		**Pass**
Laboratory Parameters:	Required prior to the test	During the test
Ambient Temperature	17 to 27°C	21°C ± 2
Relative Humidity	25 to 65 %	42% ± 5
Supplementary information: Test location: SMEE Test date: January 11th, 2024 by C. KERMICHE. Power supply voltage: DC 3.6V from two internal batteries		

Tabulated Results for Occupied Bandwidth	
Frequency (MHz)	**99% Occupied Bandwidth** (kHz)
905.25	512.5
915.25	510.5
925.25	520.0

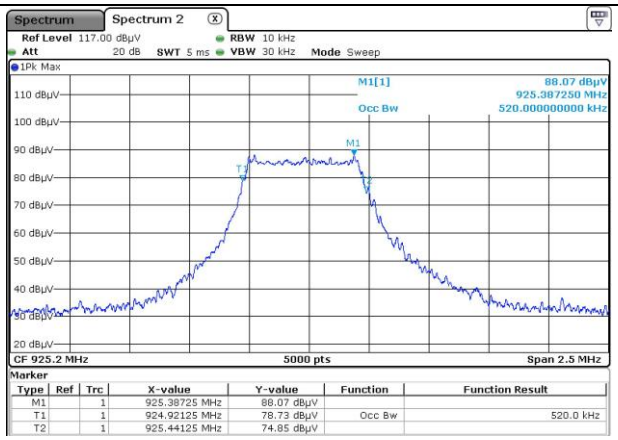
Graphical representation of Occupied Bandwidth



Low



Middle



High

END OF TEST REPORT.