

Matériel testé :
Equipment under test:

HECTOR

Constructeur:
Manufacturer: **CAPTIV**
2 route de Carquefou
44300 NANTES - France

Rapport délivré à :
Issued to: **CAPTIV**
M. Valentin ROY
2 route de Carquefou
44300 NANTES - France

Référence de la proposition :
Proposal number: 122015-21779

Date de l'essai :
Date of test: Du 8 au 18 février 2016
February 8th to 18th, 2016

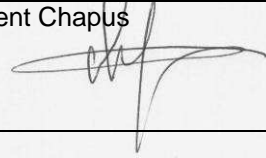
Objectif des essais :
Test purpose: EMC qualification accordingly to following standards:
- CFR 47, FCC Part 15, Subpart C
(Chapter 15.247 - Operation within the bands 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz)

FCC ID: 2AHFAHECTOR

Lieu du test:
Test location: SMEE CE-Mesures
38 VOIRON - France

Test réalisé par :
Test realized by: Jérémy BLANCHER

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

Ed.	Date	Modifications Pages /	Written by:	Approved by: Visa
1	March 24 th , 2016	Initial Edition	Jeremy Blancher	Laurent Chapus
2	April 10 th , 2016	Added informations		

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COORDONNEES

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SAS au capital de 50 000 € / RC Grenoble B534 796 453 / SIRET 534 796 453 00015 / code APE 7490B / n° TVA : FR 59 534 796 453

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1. Normatives References

Standard : FCC CFR 47, PART 15, Subpart C (Clause 15.247)

ANSI C63.4 (2014): American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz.

ANSI C63.10 (2013): American National Standard for Testing Unlicensed Wireless Devices

DTS Measurement Guidance 558074 D01 v03r04

Determining ERP and EIRP Guidance 412172 D01 v01r01

2. Test synthesis

TEST	Paragraph number FCC Part 15	Spec. FCC Part 15	RESULTS (comments)
Conducted emissions test	15.107 (a)	Table 15.107 (a)	N/A (1)
Radiated emission test	15.109 (a)	Table 15.109 (a)	N/A (2)
6dB Bandwidth	15.247 (a) (2)	At least 500kHz	PASS
Maximum Peak Output Power	15.247 (b) (1)	0.125W max / 21dBm (Conducted) 0.500W max / 27dBm (EIRP)	PASS
Maximum Power Spectral Density	15.247 (e)	8dBm in a 3kHz band segment	PASS (3)
Unwanted emissions into Non Restricted Frequency Bands	15.247 (d) /	-20dBc in any 100kHz outside frequency band.	PASS
Unwanted emissions into Restricted Frequency Bands	15.209 / 15.247 (d) / 15.205	Measure at 300m 9-490kHz: 2400µV/m/F(kHz) Measure at 30m 0.490-1.705: 24000µV/m/F(kHz) 1.705-30MHz: 30µV/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

N/A: Not Applicable

(1): No cable

(2): Equipment functioning only with RF function

(3): Test not required. Maximum Peak Output power complies with the PSD limit. See Clause 11.10.1 of ANSI C63.10 (2013).

• General conclusion:

Measures and tests performed on the sample of the product HECTOR, in configuration and description presented in this test report, show compliance with standards FCC CFR 47, PART 15, Subpart C.

3. Equipment Under Test (EUT)

Nom /
Identification

HECTOR

Sn: N.C

Alimentation /
Power supply

3V dc from internal battery (CR2032)

Auxiliaires /
Auxiliaries

SAMSUNG Android tablet, model GALAXY Tab A 9.7" (SM-T550)
(Bluetooth BLE4.1 communication)

Entrées-Sorties /
Input / Output

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

Version programme /
Firmware version

N.C

Mode de fonctionnement /
Running mode

The tested sample is able to:

- Transmit a carrier frequency on low, middle and high channels (Bluetooth Low Energy)
- Be in Receiver mode (no transmission)
- Be in standby mode (no transmission)

Programme de test /
Test program /

"Hector" application on Android tablet

• Equipment information:

- ISM Frequency band: 2400 to 2483.5 MHz (Tx & Rx, Wideband Data Transmission systems)
- Bluetooth chip: TEXAS INSTRUMENT, model CC2541 (Bluetooth 4 BLE)
- Antenna type: Integral (PIFA antenna, max peak gain 0dBi)
- Powered by 3V DC from internal battery (CR2032)
- Equipment intended for use as a fixed station
- Equipment designed for continuous operation

4. Test conditions

Relative Humidity : 55%
Temperature : 20°C

Power supply voltage:

Equipment under test : 3V DC from CR2032 battery

5. Modifications of the EUT

None

6. Special accessory

None

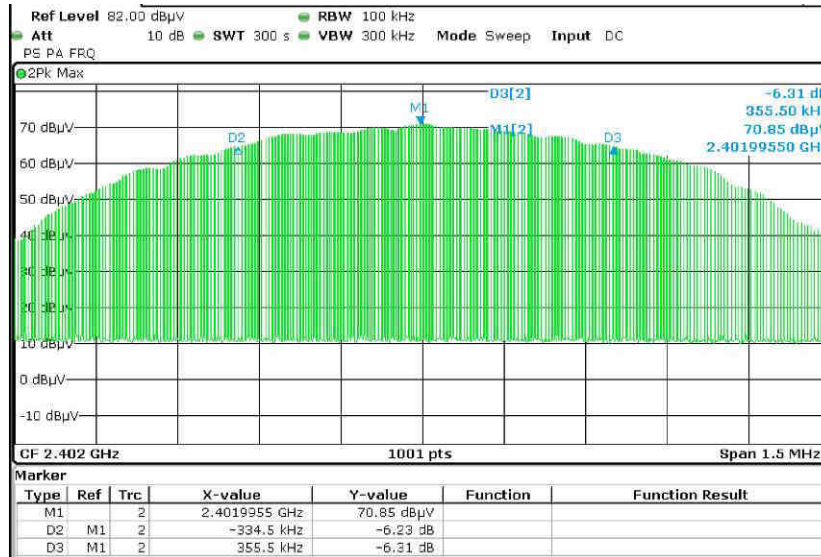
7. 6dB Bandwidth

TEST: 6dB Bandwidth / FCC part 15.247			Verdict
<u>Method:</u> The setup is in an anechoic chamber. The spectrum analyzer is connected to the measuring antenna. The tested equipment is set to transmit operation with modulations on lowest, middle and highest channel.			Pass
Laboratory Parameters:	Required prior to the test	During the test	
Ambient Temperature	10 to 40 °C	20°C	
Relative Humidity	10 to 90 %	55%	
Limits – FCC Part 15.247 (a)			
Frequency (MHz)	Level for Bandwidth	Limit	
2402.0	6dB below the maximum output power	At least 500kHz	
2440.0			
2480.0			
Supplementary information: Test location: SMEE – CE Mesures / Test date: February 9 th , 2016 Power supply voltage: 3V from battery (fully charged)			

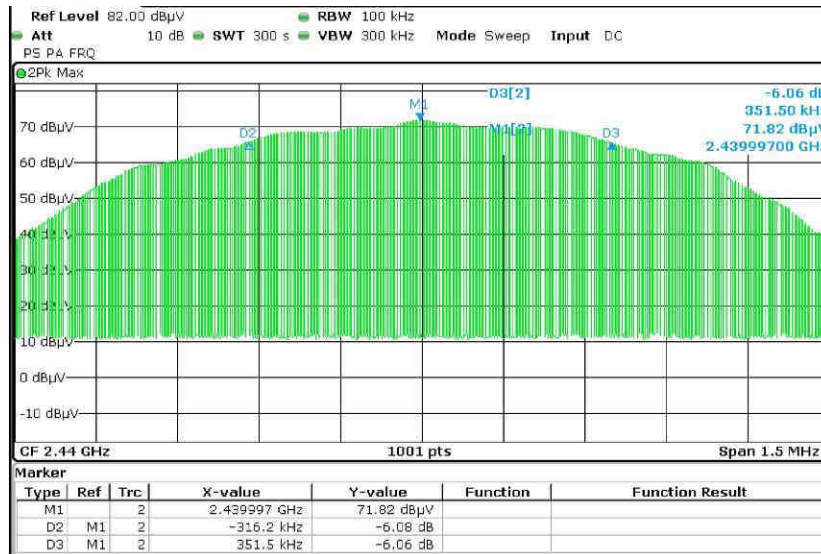
Test Equipment Used					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Measuring Rec.	Rohde&Schwarz	ESRP	REC-151-002	2015/7	2018/7
Horn antenna	ETS-LINDGREN	3115	ANT-141-013	2015/7	2018/7
RF cable	HUBER+SUHNER	SF104	CAB-141-030	2015/3	2016/3
RF cable	Pasternack	PE302-120	CAB-131-024	2015/3	2016/3
Anechoic chamber	COMTEST	214263	CAG-141-001	-	-
Turntable	Innco- Systems	CT0800	PLA-141-001	-	-

Tabulated Results for Occupied Bandwidth		
Frequency (MHz)	6dB Bandwidth (kHz)	Result
2402.0	690.0 kHz	Pass
2440.0	667.7 kHz	Pass
2480.0	687.0 kHz	Pass

Graphical representation of 6dB Bandwidth



Low channel



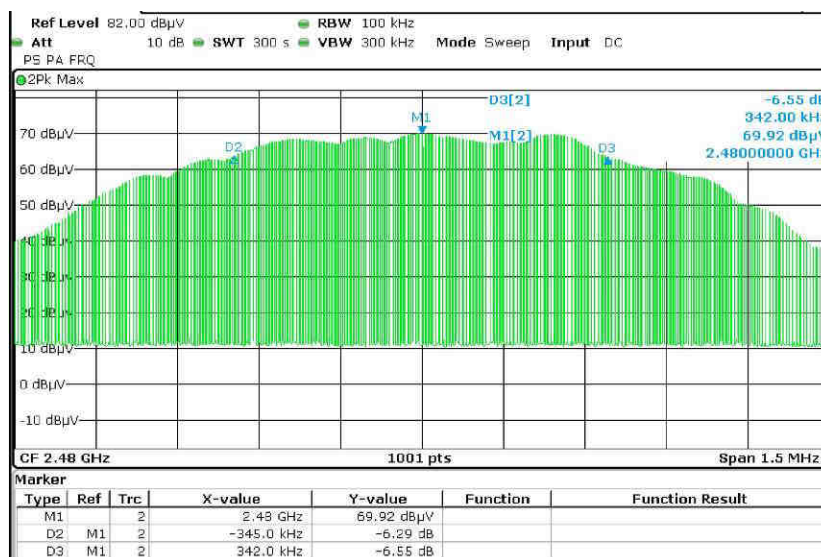
Mid channel

Frequency band investigated: 2400MHz to 2483.5MHz

RBW : 100kHz

Measurement detector: Peak

Graphical representation of 6dB Bandwidth



High channel

Frequency band investigated: 2400MHz to 2483.5MHz

RBW : 100kHz

Measurement detector: Peak

8. Maximum Peak Output power

TEST: Maximum peak conducted output power / FCC part 15.247			Verdict
Method: Measurements were performed with peak detector using a 1MHz RBW. The VBW is set to 3MHz. The spectrum analyzer is connected via suitable means to the RF output of the tested equipment. (Conducted measurement). For field strength, the measure is performed on a 3m Open Area Test Site. The tested equipment is set to transmit operation with modulations on lowest, middle and highest channel.			Pass
Laboratory Parameters:	Required prior to the test	During the test	
Ambient Temperature	10 to 40 °C	20°C	
Relative Humidity	10 to 90 %	55%	
Limits – FCC Part 15.247 (b)			
Frequency (MHz)	Limits (dBµV/m)		
	Level / Detector / Distance	Results	
2400 to 2483.5	27 dBm / Pk / 3m (Radiated)	Pass	
2400 to 2483.5	21 dBm / Pk (Conducted)	Pass	
Supplementary information: Test location: SMEE – CE Mesures / Test date: February 8 th , 2016 Power supply voltage: 3V from battery (fully charged)			

Test Equipment Used					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Measuring Rec.	Rohde&Schwarz	ESRP	REC-151-002	2015/7	2018/7
Horn antenna	ETS-LINDGREN	3115	ANT-141-013	2015/7	2018/7
RF cable	Div	OATS/25m	CAB-101-017	2014/3	2015/3
OATS	Div	3 / 10m	SIT-101-001	2014/5	2015/5
Antenna mast	Innco- Systems	MA4000EP	MAT-101-001	-	-
Turntable	Innco- Systems	DS1200S	PLA-101-001	-	-

Tabulated Results for Maximum peak output power (Radiated measurement)				
FREQ	Field Strength 3m	Calculated EIRP	Limit	Result
(MHz)	(dBμV/m)	(dBm)	(dBm)	
2402	95,6	0,3	27.0	Pass
2440	95,2	-0,1	27.0	Pass
2480	95,5	0,2	27.0	Pass
RBW:		1MHz		
Measurement distance:		3m		
Limit:		FCC Part 15.247 (b)		
Final measurement detector:		Peak		
Wide Measurement Uncertainty:		± 5.2dB (k=2)		
RESULT:		PASS		
Note:		<p>Field strength is measured on the Open Area Test Site at a distance of 3m. Three orthogonal axis measurements are performed for both horizontal and vertical antenna (measure) polarization in order to obtain the maximum peak field strength.</p> <p>The power (EIRP) was calculated using the following equation: $EIRP = (E \times d)^2/30$ Where D is the distance in meters from which the field strength was measured E is the maximum field strength in V/m</p>		

Tabulated Results for Maximum peak output power (Conducted)				
FREQ	Calculated EIRP	Calculated conducted power	Limit	Result
(MHz)	(dBm)	(dBm)	(dBm)	
2402	0,3	0,3	21.0	Pass
2440	-0,1	-0,1	21.0	Pass
2480	0,2	0,2	21.0	Pass
Note:		Conducted power is calculated from EIRP with antenna gain of 0dBi.		

9. Unwanted emissions in Non-Restricted Frequency bands

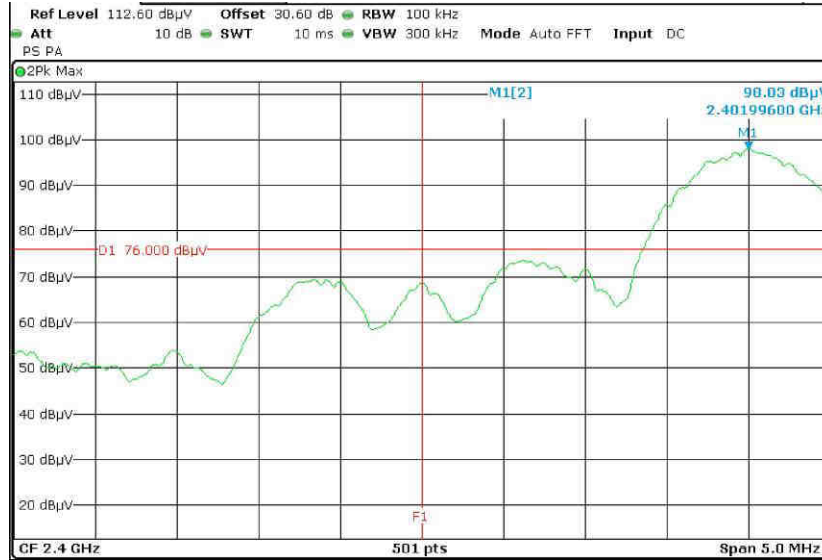
TEST: Unwanted emissions in Non-Restricted Frequency Bands / FCC part 15.247			Verdict
<p><u>Method:</u> Measurements were made in a 3-meter Open Area Test Site (OATS) that complies to ANSI C63.4. Preliminary (peak) measurements were performed at an antenna to EUT separation distance of 3 meter. The EUT was rotated 360° about its azimuth with the receive antenna located at various heights in horizontal and vertical polarities. Final measurements (Peak) 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.</p> <p>A pre-scan frequency identification of the EUT has been performed in full anechoic chamber. The measured radiated field of the EUT is realised at 3-meters of distance. Antenna is 1.25-meters high.</p>			Pass
Laboratory Parameters:	Required prior to the test	During the test	
Ambient Temperature	10 to 40 °C	20°C	
Relative Humidity	10 to 90 %	55%	
Fully configured sample scanned over the following frequency range	Frequency range on each side of line	Measurement Point	
	30MHz – 25GHz	3 m measurement distance	
Limits – FCC Part 15.247 (d)			
Frequency (MHz)	Limits (dBµV/m)		
	Detector / Analyser RBW	Limit	Results
30 to 25000	Pk / 100kHz	20dB below the maximum Peak level	Pass
Supplementary information: Test location: SMEE – CE Mesures / Test date: February 17 th , 2016 Power supply voltage: 3V from battery (fully charged)			

Test Equipment Used					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Log-periodic antenna	TDK	PLP3003	ANT-101-001	2015/8	2016/8
Biconnic antenna	COM-POWER	AB- 900	ANT-101-003	2015/8	2016/8
Loop antenna	EMCO	6502	ANT-101-009	2015/3	2016/3
BiConiLog antenna	EMCO	3142B	ANT-101-010	2015/8	2016/8
Horn antenna	ETS-LINDGREN	3115	ANT-141-013	2015/7	2018/7
RF cable	Div	OATS/25m	CAB-101-019	2015/3	2016/3
RF cable	Pasternack	PE302-120	CAB-131-024	2015/3	2016/3
RF cable	HUBER+SUHNER	RG214U	CAB-141-026	2015/3	2016/3
RF cable	HUBER+SUHNER	RG214U	CAB-141-029	2015/3	2016/3
RF cable	HUBER+SUHNER	SF104	CAB-141-030	2015/3	2016/3
High-pass filter	Mini-Circuit	VHF-3100+	FIL-151-006	2015/3	2016/3
Pre-amplifier	PE	PE1524	PRE-101-002	2015/3	2016/3
Anechoic chamber	COMTEST	214263	CAG-141-001	-	-
OATS	Div	10m	SIT-101-001	2015/8	2016/8
Antenna mast	Innco- Systems	MA4000EP	MAT-101-001	-	-
Turntable	Innco- Systems	DS1200S	PLA-101-001	-	-
Turntable	Innco- Systems	CT0800	PLA-141-001	-	-
Measuring Rec	Rohde&Schwarz	ESRP	REC-151-002	2015/7	2018/7
Spectrum analyzer	AGILENT HP	8563E	ASP-111-003	2013/9	2016/9

Tabulated Results for Peak Output Power Reference level	
FREQ	Field Strength 3m
(MHz)	(dBμV/m)
2402.0	95,3
2440.0	94,9
2480.0	95,2
RBW:	100kHz
Measurement distance:	3m
Limit:	Ref. level only – For 15.247 (d)
Final measurement detector:	Peak
Wide Measurement Uncertainty:	± 5.2dB (k=2)
Note:	Only for identification of limit in non-restricted band Limit is 74.9 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	Field Strength 3m	Limit	Result
(MHz)	(dBμV/m)	(dBμV/m)	(dBμV/m)
2400.0	70.0	74.9	Pass
9608.0	53.4	74.9	Pass
9760.0	52.9	74.9	Pass
9920.0	53.6	74.9	Pass
RBW:	100kHz		
Measurement distance:	3m		
Limit:	15.247 (d)		
Final measurement detector:	Peak		
Wide Measurement Uncertainty:	± 5.2dB (k=2)		
RESULT:	PASS		
Note:	(1): All frequencies in non-restricted bands not specified in the tabulated have margin > 10dB.		

Graphical representation of Band-edge compliance



Low bandedge compliance

F1 = 2400MHz
 Peak level at 2400MHz is 70.0dBμV/m (limit is 74.9dBμV/m)
 RESULT: PASS
 Note: Radiated measurement

10. Unwanted emissions in Restricted Frequency bands

TEST: Unwanted emissions into Restricted Frequency Bands / FCC part 15.205, 15.209, 15.247		Verdict
<p><u>Method:</u> Measurements were made in a 10 or 3-meter Open Area Test Site (OATS) that complies to ANSI C63.4. 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.</p> <p>A pre-scan frequency identification of the EUT has been performed in full anechoic chamber. The measured radiated field of the EUT is realised at 3-meters of distance. Antenna is 1.25-meters high.</p>		Pass
Laboratory Parameters:	Required prior to the test	During the test
Ambient Temperature	10 to 40 °C	20°C
Relative Humidity	10 to 90 %	55%
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 – 25GHz	3 m measurement distance
Limits – FCC Part 15.205, 15.209, 15.247		
Frequency (MHz)	Limits (dBµV/m)	
	Level / Detector / Distance	Results
0.009 to 0.490	107.6 to 72.9 / QP / 10m	Pass
0.490 to 1.705	52.9 to 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
<p>Supplementary information:</p> <p>Test location: SMEE – CE Mesures / Test date: February 17th, 2016</p> <p>Power supply voltage: 3V from battery (fully charged)</p>		

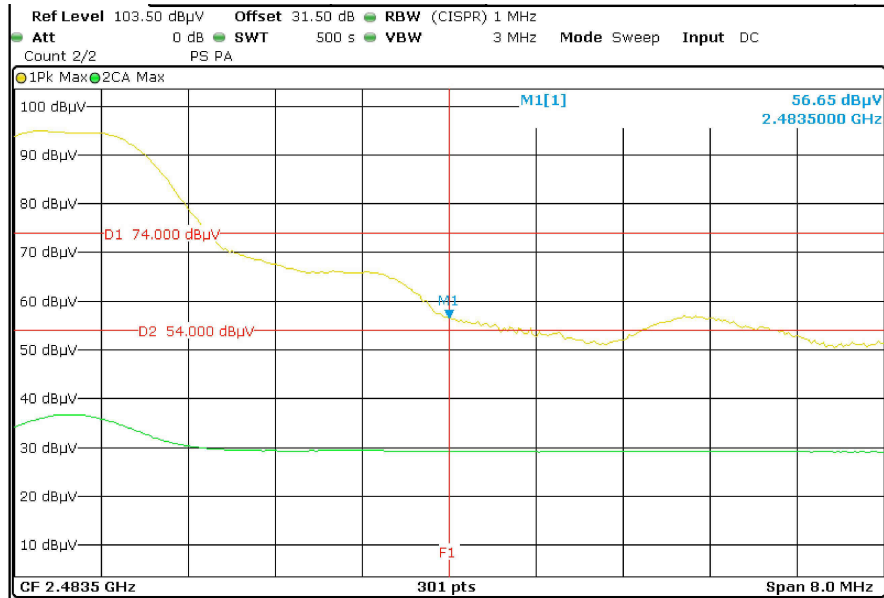
Test Equipment Used					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Log-periodic antenna	TDK	PLP3003	ANT-101-001	2015/8	2016/8
Biconnic antenna	COM-POWER	AB- 900	ANT-101-003	2015/8	2016/8
Loop antenna	EMCO	6502	ANT-101-009	2015/3	2016/3
BiConiLog antenna	EMCO	3142B	ANT-101-010	2015/8	2016/8
Horn antenna	ETS-LINDGREN	3115	ANT-141-013	2015/7	2018/7
RF cable	Div	OATS/25m	CAB-101-019	2015/3	2016/3
RF cable	Pasternack	PE302-120	CAB-131-024	2015/3	2016/3
RF cable	HUBER+SUHNER	RG214U	CAB-141-026	2015/3	2016/3
RF cable	HUBER+SUHNER	RG214U	CAB-141-029	2015/3	2016/3
RF cable	HUBER+SUHNER	SF104	CAB-141-030	2015/3	2016/3
High-pass filter	Mini-Circuit	VHF-3100+	FIL-151-006	2015/3	2016/3
Pre-amplifier	PE	PE1524	PRE-101-002	2015/3	2016/3
Anechoic chamber	COMTEST	214263	CAG-141-001	-	-
OATS	Div	10m	SIT-101-001	2015/8	2016/8
Antenna mast	Innco- Systems	MA4000EP	MAT-101-001	-	-
Turntable	Innco- Systems	DS1200S	PLA-101-001	-	-
Turntable	Innco- Systems	CT0800	PLA-141-001	-	-
Measuring Rec	Rohde&Schwarz	ESRP	REC-151-002	2015/7	2018/7
Spectrum analyzer	AGILENT HP	8563E	ASP-111-003	2013/9	2016/9

Tabulated Results for Unwanted emissions (9kHz-30MHz)						
FREQ	RF field @ 30m	Limit @ 30m	Margin	Antenna angle	Table angle	Correc. Fact. (CF)
MHz	(QP) dBμV/m	(QP) dBμV/m	dB	Degree	Degree	dB
Margin > 10dB						
Supplementary information: Frequency list measured on the Open Area Test Site has been created with pre-scan results.						
Frequency band investigated:		9kHz-30MHz				
RBW:		200Hz (9kHz-150kHz)				
		9kHz (150kHz-30MHz)				
Measurement distance:		10m				
Limit:		FCC Part 15.205 - 15.209				
Final measurement detector:		Quasi-Peak				
Wide Measurement Uncertainty:		± 5 dB (k=2)				
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) (M@30m = M@10m-19.1dB)				

Tabulated Results for Unwanted emissions (30MHz-1GHz)										
FREQ	Meter reading	Meter reading	CF total	Field level	Field level	Pol	Antenna height	Table angle	Limit	Margin
MHz	(QP) dBμV	(Pk) dBμV	dB	(QP) dBμV/m	(Pk) dBμV/m		cm	Degré	(QP) dBμV/m	dB
Margin > 10dB										
Supplementary information: Frequency list measured on the Open Area Test Site has been created with pre-scan results.										
Frequency band investigated:		30MHz-1GHz								
RBW:		120kHz								
Measurement distance:		3m								
Limit:		FCC Part 15.205 - 15.209								
Final measurement detector:		Quasi-Peak								
Wide Measurement Uncertainty:		± 5.2dB (k=2)								
RESULT:		PASS								
Field Strength Calculation:		<p>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:</p> $FS = RA + AF + CF - AG$ <p>Where FS = Field Strength RA = Receiver Amplitude AF = Antenna Factor CF = Cable Factor AG = Amplifier Gain</p> <p>Total factor (dB) is AF + CF – AG Margin value = Emission level – Limit value</p>								

Tabulated Results for Unwanted emissions (1GHz-25GHz)				
FREQ (MHz)	Field level dBμV/m	Detector	Limit (dBμV/m)	Result
2483.5	58.2	Pk	74	Pass
2483.5	29.8	Av	54	Pass
4804,0	55.4	Pk	74	Pass
4804,0	39.3	Av	54	Pass
4880,0	54.8	Pk	74	Pass
4880,0	38.4	Av	54	Pass
4960,0	55.5	Pk	74	Pass
4960,0	38.7	Av	54	Pass
7206,0	61.8	Pk	74	Pass
7206,0	46.1	Av	54	Pass
7320,0	62.5	Pk	74	Pass
7320,0	46.2	Av	54	Pass
7440,0	63.2	Pk	74	Pass
7440,0	46.6	Av	54	Pass
12010,0	64.4	Pk	74	Pass
12010,0	48.3	Av	54	Pass
12200,0	65.0	Pk	74	Pass
12200,0	49.1	Av	54	Pass
12400,0	66.1	Pk	74	Pass
12400,0	50.0	Av	54	Pass
RBW / VBW		1MHz / 3MHz (Peak) 1MHz / 10Hz (AV)		
Measurement distance:		3m		
Limit:		FCC Part 15.205 - 15.209		
Final measurement detector:		Peak / Average		
Wide Measurement Uncertainty:		± 5.2dB (k=2)		
RESULT:		PASS		
Note:		(1): Performed on OATS at 3m distance (2): Above 10GHz, frequencies were measured at 1m distance and corrected with the Correction Factor : CF = 20log(1 meter / 3 meters) = -9.5dB		

Graphical representation of Band-edge compliance



High bandedge compliance

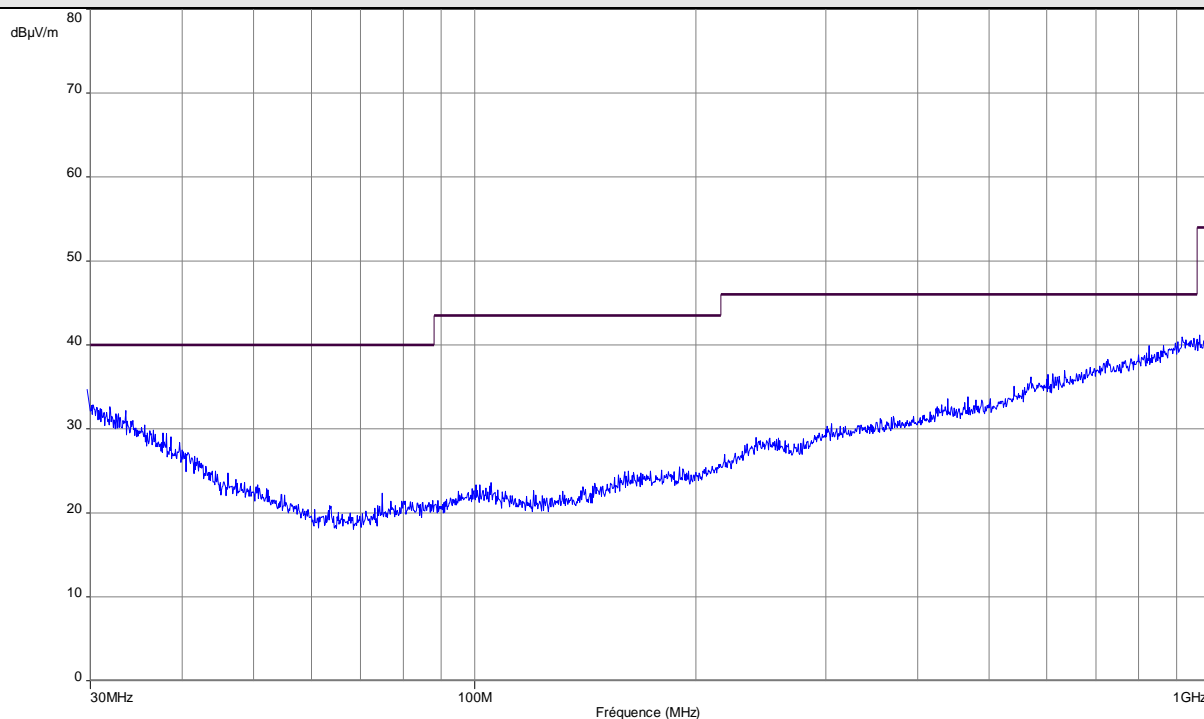
Radiated Peak level is 58.2dBμV/m (limit 74dBμV/m)

Radiated Average level is 29.8dBμV/m (limit 54dBμV/m, Average detector measurement)

RESULT: PASS

Note: radiated measurement (3m on OATS)

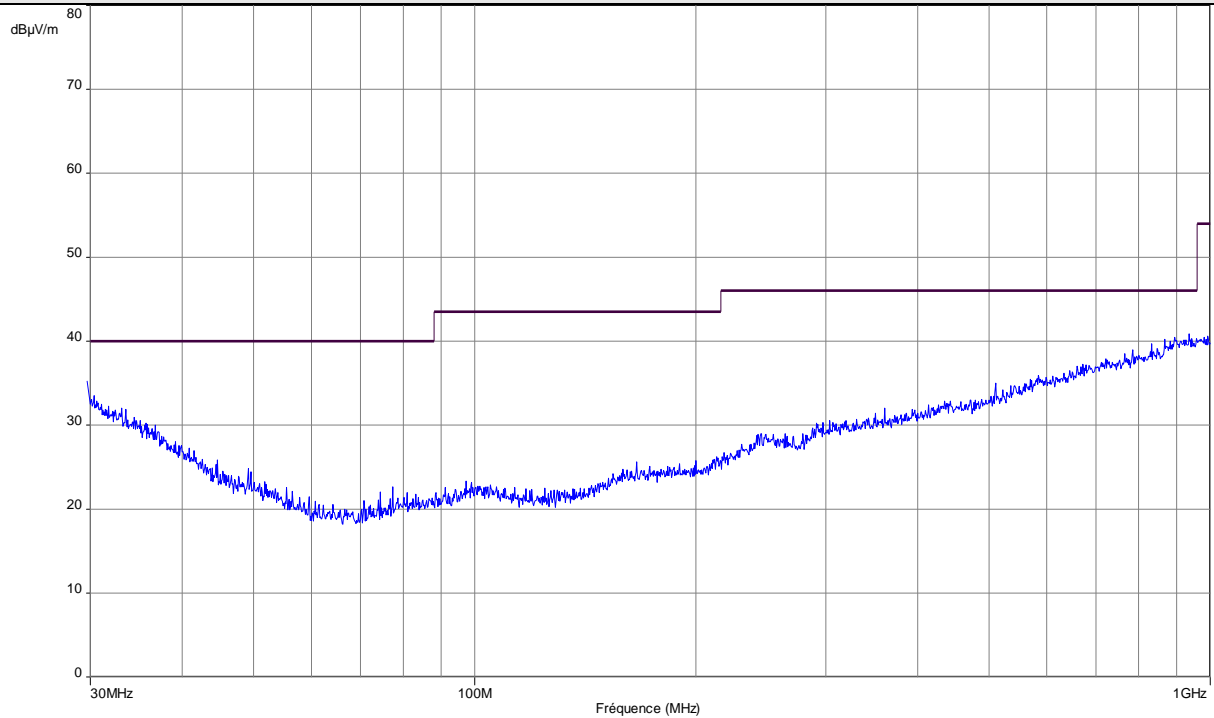
Graphical representation of Radiated Disturbance Measurement (Peak detection, Anechoic chamber pre-scan, 30MHz-1GHz / 3m / Horizontal / Transmit mode)



Note: Pre-scan graph only for identification purpose.

Frequency band investigated:	30MHz-1GHz
Unit :	dBμV/m
RBW :	100kHz
Antenna polarization :	Horizontal
Voltage:	3V DC
Limit:	15.205 - 15.209
Measurement detector:	Peak
Wide Measurement Uncertainty:	± 5dB (k=2)

Graphical representation of Radiated Disturbance Measurement (Peak detection, Anechoic chamber pre-scan, 30MHz-1GHz / 3m / Vertical / Transmit mode)



Note: Pre-scan graph only for identification purpose.

Frequency band investigated:	30MHz-1GHz
Unit :	dBμV/m
RBW :	100kHz
Antenna polarization :	Vertical
Voltage:	3V DC
Limit:	15.205 - 15.209
Measurement detector:	Peak
Wide Measurement Uncertainty:	± 5dB (k=2)