

# FCC SDoC REPORT

## ICES-003 TEST REPORT

**Project No.** : TM-2208000281P  
**Applicant** : MICHELIN NORTH AMERICA (US) INC.  
**Address** : One Parkway South Greenville South Carolina 29615 United States  
**Manufacturer** : MFP MICHELIN  
**Address** : 23 Place des Carmes-Deschaux - 63040 Clermont-Fd Cedex9 - France  
**Equipment Under Test (EUT) :**  
**Product Name** : MEMS EVOLUTION 4 RF 433MHz MODULE  
**Brand Name** : MICHELIN  
**Model No.** : RV7-01  
**Added Model(s)** : N/A  
**Standards** : 47 CFR FCC Part 15 Subpart B (Class A)  
ICES-003 Issue 7 : October 2020 (Class A)  
ANSI C63.4 : 2014  
**Date of Sample Receipt** : Aug. 17, 2022  
**Date of Test** : Oct. 25 ~ Nov. 04, 2022  
**Date of Issue** : May 19, 2023

<b>Test Result :</b>	<b>PASS</b>
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In the configuration tested, the EUT complied with the standards specified above.

**Remarks :**

This report details the results of the testing carried out on one sample, the results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

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**Approved By**



**Date**

May 19, 2023

**Eddy Cheng**  
(Assistant Supervisor)



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## Revision History

Revision	Report Number	Description	Issue Date
00	TMHY2208001385YE	Original.	May 19, 2023

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# 1. General Information

## 1.1 Applicant & Manufacturer Information

Applicant : MICHELIN NORTH AMERICA (US) INC.  
 Address of Applicant : One Parkway South Greenville South Carolina 29615  
 United States  
 Manufacturer : MFP MICHELIN  
 Address of Manufacturer : 23 Place des Carmes-Deschaux - 63040 Clermont-Fd  
 Cedex9 - France

## 1.2 General Description of EUT

Product Name : MEMS EVOLUTION 4 RF 433MHz MODULE  
 Brand Name : MICHELIN  
 Model No. : RV7-01  
 Added Model(s) : N/A  
 Model Difference : N/A

## 1.3 Details of EUT

Power Supply : From system  
 Modes/Function : Mode 1: EUT(RF 433MHz Module)+  
 Transceiver(RV5-01)+Full System+  
 Emulateur Beacon+RF 433MHz Rx+  
 DC24V  
 Worst case : CE Worst case : N/A  
 Below 1GHz RE Worst case : Mode 1  
 Above 1GHz RE Worst case : Mode 1  
 Highest internal frequency : 433.92MHz

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## 1.4 Description of Support Units

PRODUCT	MANUFACTURER	MODEL NO.	SERIAL NO.
MEMS4 Transceiver	MICHELIN	RV5-01	50750
CAN LOAD BOX	N/A	N/A	N/A
Antenna	N/A	N/A	N/A
433M Hz Antenna	Laird	YS4303	N/A
Sensors	MICHELIN	RV1-30	31751420
MEMS3 Command Unit Retro fit	MICHELIN	N/A	10
Emulateur beacon	MICHELIN	N/A	N/A
DC Source	DP-3003	D7070035	N/A
PC	Lenovo	M920t	PC16AZ3N
AP	D-Link	DIR-865L	R3R01C9000402
Phone	ASUS	Zenfone4	HBAZCY00A848HZD
USB-Flash	Kingston	DTSE9H/16GB	C4525-305A00LR

## Support Equipment Used in Tested Cable

Cable Type	Core	Length	Shielding/Non-shielding
DC power cable	Near AE	2.8m	Non-shielding
Can1 cable	N/A	0.2m	Non-shielding
RS232 cable	N/A	1.4m	Non-shielding
Can2/3 cable	N/A	0.5m	Non-shielding
Data cable	N/A	5m	Non-shielding
Antenna cable	N/A	7m	Non-shielding
433M Hz Antenna cable	N/A	3m	Non-shielding

## 1.5 Operation Procedure

### Mode 1

1. Install the EUT into the host (Transceiver), connect the I/O of the host to the corresponding adapter cable, connect the two sets of RF 433MHz antennas, and connect the other WiFi/WWAN/GPS antennas, then connect the DC24V to start the machine.
2. The LAN Port is connected to the AP ROUTER, the remote PC is also connected to the AP ROUTER, and the remote PC pings the EUT IP.
3. Connect the mobile phone to the MEMS3 Command Unit Retro fit, then place the Sensor (RV1-30) on the top of the Retro fit, and then place the EMULATEUR BEACON next to it, set the MEMS3 Command Unit Retro fit to launch, execute putty.exe on the remote PC, and then enter the command to receive Emulateur Beacon Signal.
4. Start the test.

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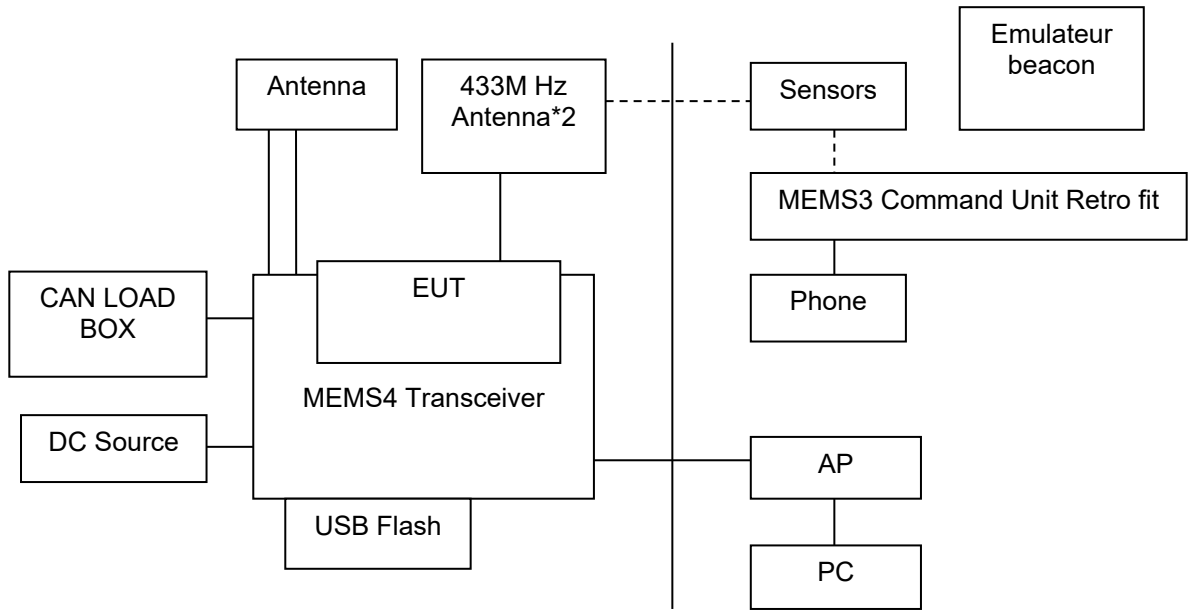


1.6 Accessories Cable List

Cable Type	Core	Length	Shielding/Non-shielding
N/A			

1.7 Test Set-Up Configuration

Mode 1



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## 1.8 Measurement Procedure

Conducted Emission Testing was performed according to ANSI C63.4:2014 in a shielded room with peripherals placed on a table, 0.8m high over a metal floor. It was located more than required distance away from the shielded room wall.

Radiated Emission Testing was performed according to ANSI C63.4:2014 at the 3/10m semi-anechoic chamber. The EUT was placed on a 0.8m high table along with the peripherals. The turn table was placed 3/10m distance from the antenna. Cables were placed in a position to produce maximum emissions as determined by experimentation, and operation mode was selected for production of maximum emission.

The frequency and amplitude of the worse emissions were measured at varying azimuths, antenna heights and antenna polarities. Maximum emission levels are then reported.

## 1.9 Standards Applicable for Testing

Tests to be carried out under 47 CFR FCC Part 15 Subpart B/CISPR 22/  
ICES-003/ANSI C63.4 : 2014

Test Standards	Status
47 CFR FCC Part 15 Subpart B CISPR 22 ICES-003 ANSI C63.4 : 2014	Applicable
Deviation from Standard	No deviation

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### 1.10 Decision Rules of Results

Reported measurement data comply with 47 CFR FCC Part 15 Subpart B and ICES-003.

Determining compliance shall be based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

### 1.11 Summary of Results

Standard	Test Type	Result
47 CFR FCC Part 15 Subpart B ICES-003 Issue 7 : October 2020 ANSI C63.4 : 2014	Conducted Emission	N/A
	Radiated Emission	PASS

### 1.12 Reporting Statements of Conformity

The conformity statement in this report is based solely on the test results, measurement uncertainty is excluded.

### 1.13 Test Facility

Laboratory	SGS Taiwan Ltd. Electromagnetic Compatibility Lab
Test Site	No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan
FCC Designation Number	TW1124

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## 2. EMISSION

### 2.1 Test Results

Conducted Emission	N/A
Radiated Emission	Pass

### 2.2 Frequency Range

#### 47 CFR FCC Part 15 Subpart B:

Conducted Emission : 150 kHz - 30 MHz

Radiated Emission : See below table

Highest frequency generated or used in the device or on which the device operates or tunes (MHz)	Upper frequency of measurement range (MHz)
Below 1.705	30
1.705 - 108	1000
108 - 500	2000
500 - 1000	5000
Above 1000	5th harmonic of the highest frequency or 40 GHz, whichever is lower.

#### ICES-003:

Conducted Emission : 150 kHz - 30 MHz

Radiated Emission : 30 MHz to 5<sup>th</sup>harmonic of the highest frequency or 40GHz, whichever is lower.

Highest internal frequency ( $F_x$ )	Highest measurement frequency
$F_x \leq 108$ MHz	1 GHz
108 MHz < $F_x \leq 500$ MHz	2 GHz
500 MHz < $F_x \leq 1$ GHz	5 GHz
$F_x > 1$ GHz	5 x $F_x$ up to a maximum of 40 GHz

Note:  $F_x$  is the highest fundamental frequency generated and/or used in the ITE or digital apparatus under test.

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## 2.3 Limits of Conducted and Radiated Emission

### 2.3.1 Limits of Conducted Emission

#### 47 CFR FCC Part 15 Subpart B:

FREQUENCY (MHz)	Class A dB( $\mu$ V)		Class B dB( $\mu$ V)	
	Quasi-peak	Average	Quasi-peak	Average
0.15 - 0.5	79	66	66 - 56	56 - 46
0.5 - 5	73	60	56	46
5.0 - 30	73	60	60	50

Note : (1) The lower limit shall apply at the transition frequencies.

(2) The limit decreases linearly with the logarithm of the frequency in the range 0.15 to 0.50 MHz.

(3) All emanation from a class A/B digital device or system, including any network of conductors and apparatus connected there to, shall not exceed the level of field strengths specified above.

#### ICES-003:

FREQUENCY (MHz)	Class A dB( $\mu$ V)		Class B dB( $\mu$ V)	
	Quasi-peak	Average	Quasi-peak	Average
0.15 - 0.5	79	66	66 - 56*	56 - 46*
0.5 - 5	73	60	56	46
5.0 - 30	73	60	60	50

Note: The more stringent limit applies at transition frequencies.

\*. The limit level in dB $\mu$ V decreases linearly with the logarithm of frequency.

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### 2.3.2 Limits of Radiated Emissions

#### 47 CFR FCC Part 15 Subpart B Limit:

- Detector Function : Quasi – Peak

FREQUENCY (MHz)	Class A (at 10 m)	Class B (at 3 m)
	dB( $\mu$ V/m)	dB( $\mu$ V/m)
30~88	39	40
88~216	43.5	43.5
216~960	46.4	46
960~1000	49.5	54

- Detector Function : Peak , Average

FREQUENCY (MHz)	Class A dB( $\mu$ V/m) (at 3 m)		Class B dB( $\mu$ V/m) (at 3 m)	
	Peak	Average	Peak	Average
Above 1000	80	60	74	54

#### CISPR 22 Limit:

- Detector Function : Quasi – Peak

FREQUENCY (MHz)	Class A (at 10 m)	Class B (at 10 m)
	dB( $\mu$ V/m)	dB( $\mu$ V/m)
30~230	40	30
230~1000	47	37

Note: 1. The lower limit shall apply at the transition frequency.  
2. Additional provisions may be required for cases where interference occurs.

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**ICES-003 Limit:**

- Detector Function : Quasi-peak

Frequency (MHz)	Class A (3 m) dB( $\mu$ V/m)	Class A (10 m) dB( $\mu$ V/m)	Class B (3 m) dB( $\mu$ V/m)	Class B (10 m) dB( $\mu$ V/m)
30 - 88	50	40	40	30
88 - 216	54	43.5	43.5	33.1
216 - 230	56.9	46.4	46	35.6
230 - 960	57	47	47	37
960 - 1000	60	49.5	54	43.5

Note: The more stringent limit applies at transition frequencies

- Detector Function : Peak, Average

Frequency (MHz)	Class A (3 m) dB( $\mu$ V/m)		Class B (3 m) dB( $\mu$ V/m)	
	Peak	Average	Peak	Average
Above 1000	80	60	74	54

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## 2.4. Test of Conducted Emission

N/A, the EUT power from system, the system is powered by DC, no necessary to perform the test.

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## 2.5 Test of Radiated Emission

### 2.5.1 Test Equipments

#### Below 1GHz

SGS Radiated_Below_1GHz HWAYA 10m EMC					
EQUIPMENT TYPE	Manufacturer	Model Number	Serial Number	Calibration Date	Calibration Due
EMI Test Receiver	R&S	ESCI	101300	2022/9/30	2023/9/29
EMI Test Receiver	R&S	ESCI	101343	2022/1/28	2023/1/27
Broadband Antenna	SCHWAZBECK	VULB9168	9168-297	2022/8/12	2023/8/11
Broadband Antenna	SCHWAZBECK	VULB9168	9168-628	2022/8/26	2023/8/25
Pre Amplifier	EMC Instruments	EMC330	980178	2022/3/31	2023/3/30
Pre Amplifier	EMC Instruments	EMC330	980179	2022/3/31	2023/3/30
Coaxial Cable	EMC Instruments	EMCCFD400-NM-NM	150917	2022/9/17	2023/9/16
Coaxial Cable	EMC Instruments	EMCCFD400-NM-NM	150919	2022/9/17	2023/9/16
Coaxial Cable	EMC Instruments	EMCCFD400-NM-NM	150820	2022/9/17	2023/9/16
Coaxial Cable	EMC Instruments	EMCCFD400-NM-NM	150918	2022/9/17	2023/9/16
Coaxial Cable	EMC Instruments	EMCCFD400-NM-NM	150821	2022/9/17	2023/9/16
Coaxial Cable	EMC Instruments	EMCCFD400-NM-NM	150822	2022/9/17	2023/9/16
Site NSA	SGS	10m Chamber	10M SAC	2021/12/31	2022/12/30
Test S/W	Farad	EZ-EMC	Ver. SGS 10m-03A2-9	N.C.R.	N.C.R.

Testing Site : No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan

Measurement Uncertainty of Radiated Emission

Expanded uncertainty U<sub>lab</sub> (k=2) of Radiated Emission is 4.43 dB.(30MHz-1000MHz)

Expanded uncertainty CISPR 16-4-2:2011+A1:2014+A2:2018 (k=2) of Radiated Emission measurement is 5.10 dB.(30MHz-1000MHz)

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## Above 1GHz

SGS Radiated Above 1GHz HWAYA 966A EMC					
EQUIPMENT TYPE	Manufacturer	Model Number	Serial Number	Calibration Date	Calibration Due
Spectrum Analyzer	R&S	FSV 40	101419	2022/5/27	2023/5/26
EMI Test Receiver	R&S	ESR 7	101459	2022/2/17	2023/2/16
Horn Antenna	Schwarzbeck	BBHA9120D	BBHA9120D285	2022/4/19	2023/4/18
Pre Amplifier	EMC Instruments	EMC012645B	980216	2022/4/25	2023/4/24
Coaxial Cable	JUNFLOW	MWX221-NMSNMS	J0778929	2022/9/8	2023/9/7
Coaxial Cable	Huber+Suhner	SUCOFLEX 104PEA	30255/4PEA	2022/9/8	2023/9/7
Coaxial Cable	EMC Instruments	EMC104-SM-SM	140927	2022/9/8	2023/9/7
Site VSWR	SGS	966 Chamber A	SAC-A	2022/1/12	2023/1/11
Test Software	Farad	EZ-EMC	Ver. SGS-03A2-11	N.C.R.	N.C.R.
Testing Site : No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan					
Measurement Uncertainty of Radiated Emission					
Expanded uncertainty Ulab (k=2) of Radiated Emission measurement is 4.15 dB.(1-6GHz)					
Expanded uncertainty Ulab (k=2) of Radiated Emission measurement is 4.11 dB.(6-18GHz)					
Expanded uncertainty CISPR 16-4-2:2011+A1:2014+A2:2018 (k=2) of Radiated Emission measurement is 5.18 dB.(1-6GHz)					
Expanded uncertainty CISPR 16-4-2:2011+A1:2014+A2:2018 (k=2) of Radiated Emission measurement is 5.48 dB.(6-18GHz)					

## 2.5.2 Measurement Level Calculation

Correction Factor = Antenna Factor + Cable loss- Amplifier Gain

Measurement Level = Reading Level + Correction Factor

Over (Margin) = Measurement Level – Limit

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2.5.3 Measurement Data

Below 1GHz

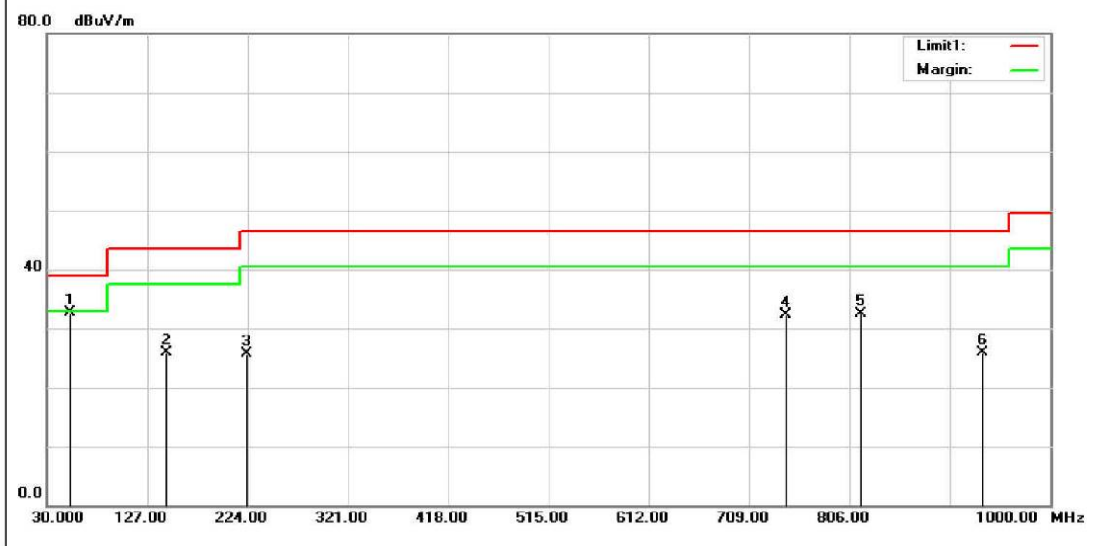
Model No.: RV7-01

Mode\_1\_H

Site: SGS 10m Chamber	Date: 2022/11/4	Time: 上午 02:20:15
Limit: FCC Class A 10m Radiation	Polarization: Horizontal	Temperature: 21 °C
Mode: Mode 1	Power: DC24V	Humidity: 68 %RH
Report: File :TMHY2208001385YE	Distance: 10m	atm pressure: 990 mbar
Tester: Jeffrey Chou		

Note:

SGS Taiwan Ltd. Electromagnetic Compatibility Laboratory Address: No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333



No.	Mk	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Measurement (dBuV/m)	Limit (dBuV/m)	Over (dB)	Detector	Height (cm)	Degree (deg.)	Comment
1	*	51.8650	44.05	-11.28	32.77	39.00	-6.23	QP	400	0	
2		144.7900	37.75	-11.83	25.92	43.50	-17.58	QP			
3		222.7100	40.14	-14.50	25.64	46.44	-20.80	QP			
4		744.0400	32.00	0.32	32.32	46.44	-14.12	QP			
5		816.0350	31.57	0.99	32.56	46.44	-13.88	QP			
6		934.0400	23.50	2.47	25.97	46.44	-20.47	QP			

\*:Maximum data x:Over limit l:over margin

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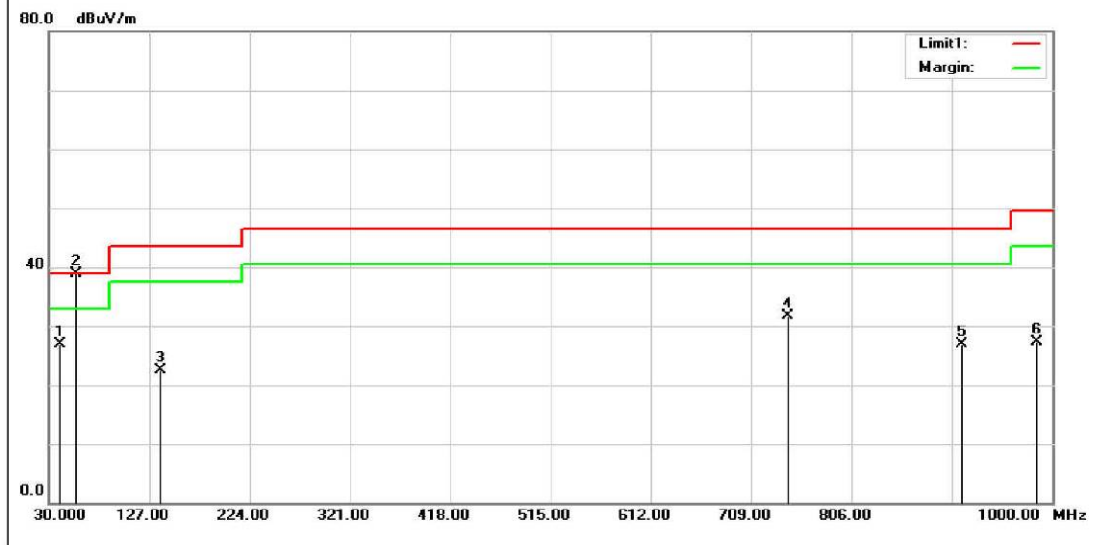


### Mode\_1\_V

Site: SGS 10m Chamber	Date: 2022/11/4	Time: 上午 02:20:14
Limit: FCC Class A 10m Radiation	Polarization: Vertical	Temperature: 21 °C
Mode: Mode 1	Power: DC24V	Humidity: 68 %RH
Report: File : TMHY2208001385YE	Distance: 10m	atm pressure: 990 mbar
Tester: Jeffrey Chou		

Note:

SGS Taiwan Ltd. Electromagnetic Compatibility Laboratory Address: No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333



No.	Mk	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Measurement (dBuV/m)	Limit (dBuV/m)	Over (dB)	Detector	Height (cm)	Degree (deg.)	Comment
1		40.3700	37.64	-10.81	26.83	39.00	-12.17	QP			
2	*	55.8800	49.38	-10.47	38.91	39.00	-0.09	QP	110	222	
3		136.9700	34.09	-11.57	22.52	43.50	-20.98	QP			
4		744.0100	29.73	1.90	31.63	46.44	-14.81	QP			
5		912.7000	23.76	3.13	26.89	46.44	-19.55	QP			
6		984.4800	23.88	3.33	27.21	49.54	-22.33	QP			

\*:Maximum data    x:Over limit    !:over margin

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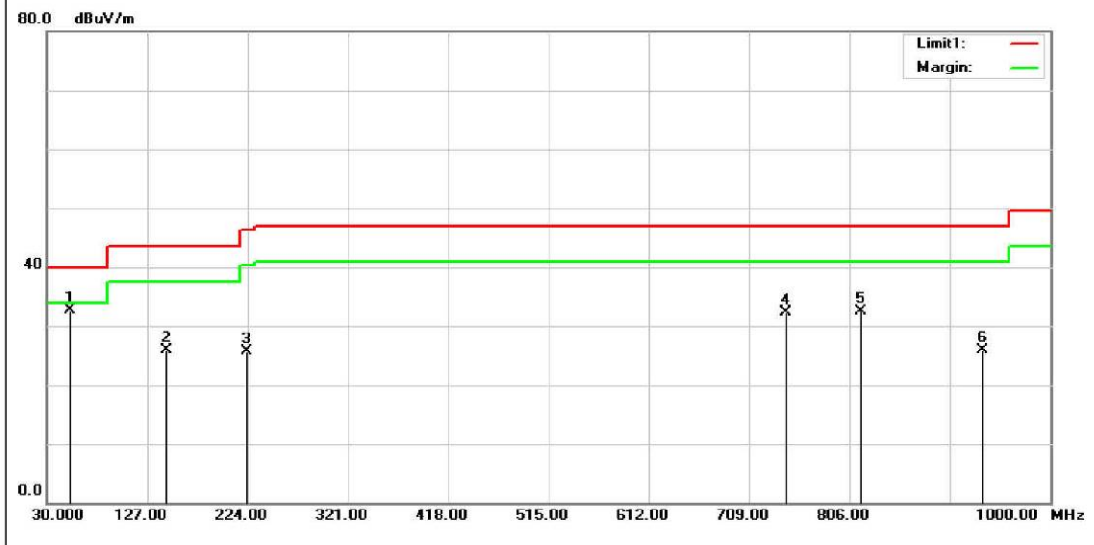
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### Mode\_1\_H

Site: SGS 10m Chamber	Date: 2022/11/4	Time: 上午 02:20:15
Limit: ICES-003 Issue 7 Class A 10m Radiation	Polarization: Horizontal	Temperature: 21 °C
Mode: Mode 1	Power: DC24V	Humidity: 68 %RH
Report: File : TMHY2208001385YE	Distance: 10m	atm pressure: 990 mbar
Tester: Jeffrey Chou		

Note:

SGS Taiwan Ltd. Electromagnetic Compatibility Laboratory Address: No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333



No.	Mk	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Measurement (dBuV/m)	Limit (dBuV/m)	Over (dB)	Detector	Height (cm)	Degree (deg.)	Comment
1	*	51.8650	44.05	-11.28	32.77	40.00	-7.23	QP	400	0	
2		144.7900	37.75	-11.83	25.92	43.50	-17.58	QP			
3		222.7100	40.14	-14.50	25.64	46.40	-20.76	QP			
4		744.0400	32.00	0.32	32.32	47.00	-14.68	QP			
5		816.0350	31.57	0.99	32.56	47.00	-14.44	QP			
6		934.0400	23.50	2.47	25.97	47.00	-21.03	QP			

\*:Maximum data    x:Over limit    !:over margin

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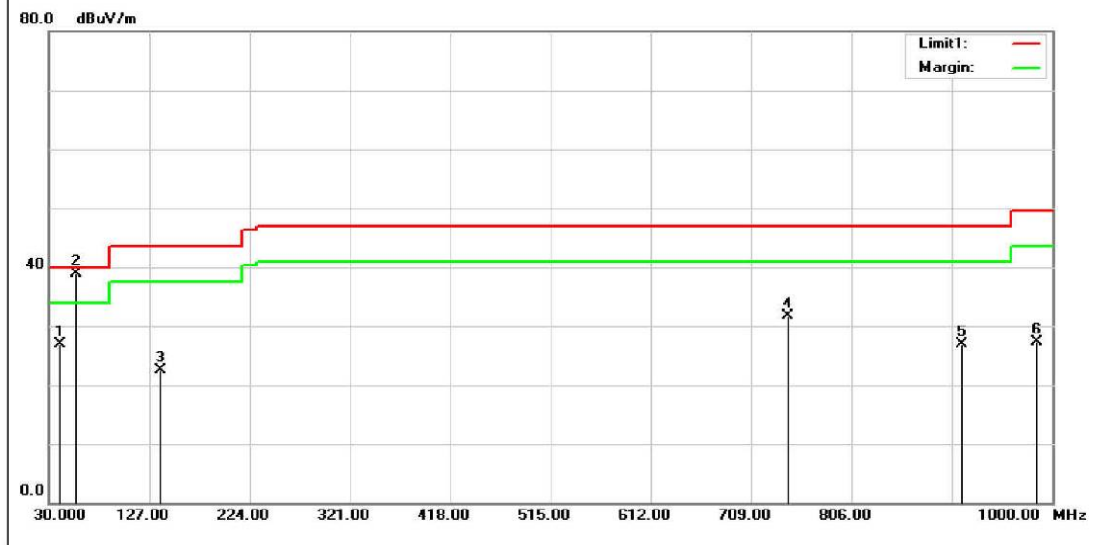
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### Mode\_1\_V

Site: SGS 10m Chamber	Date: 2022/11/4	Time: 上午 02:20:14
Limit: ICES-003 Issue 7 Class A 10m Radiation	Polarization: Vertical	Temperature: 21 °C
Mode: Mode 1	Power: DC24V	Humidity: 68 %RH
Report: File : TMHY2208001385YE	Distance: 10m	atm pressure: 990 mbar
Tester: Jeffrey Chou		

Note:

SGS Taiwan Ltd. Electromagnetic Compatibility Laboratory Address: No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333



No.	Mk	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Measurement (dBuV/m)	Limit (dBuV/m)	Over (dB)	Detector	Height (cm)	Degree (deg.)	Comment
1		40.3700	37.64	-10.81	26.83	40.00	-13.17	QP			
2	*	55.8800	49.38	-10.47	38.91	40.00	-1.09	QP	110	222	
3		136.9700	34.09	-11.57	22.52	43.50	-20.98	QP			
4		744.0100	29.73	1.90	31.63	47.00	-15.37	QP			
5		912.7000	23.76	3.13	26.89	47.00	-20.11	QP			
6		984.4800	23.88	3.33	27.21	49.50	-22.29	QP			

\*:Maximum data    x:Over limit    !:over margin

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Above 1GHz

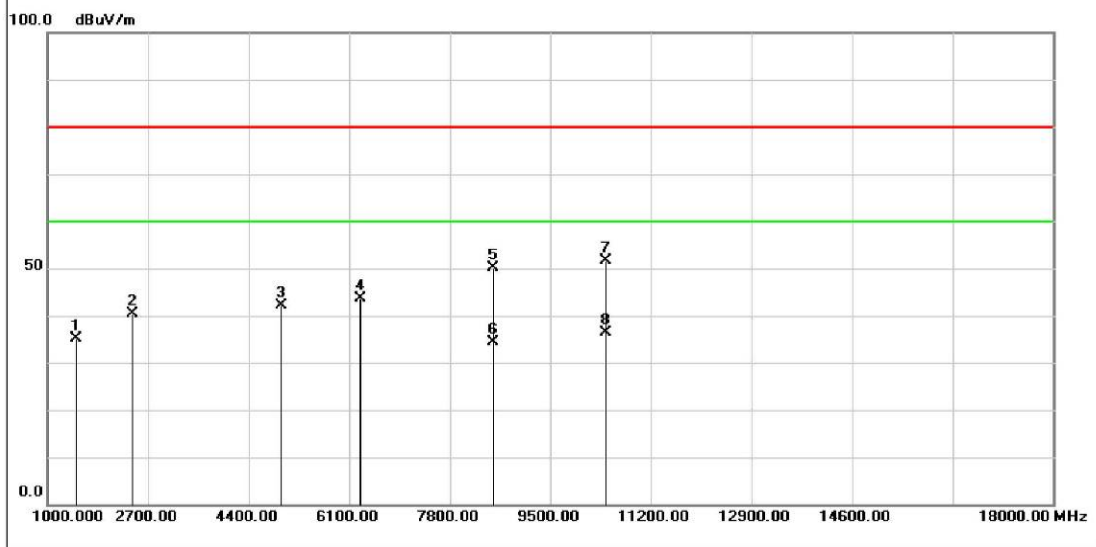
Model No.: RV7-01

Mode\_1\_H

Site: SGS 966 Chamber A	Date: 2022/10/25	Time: 下午 08:24:57
Limit: FCC Class A 1G-18G(Peak)	Polarization: Horizontal	Temperature: 20 °C
Mode: Mode 1	Power: DC 24V	Humidity: 65 %RH
Report: TMHY2208001385YE	Distance: 3m	atm pressure: 990 mbar
Tester: Boris Liao		

Note:

SGS Taiwan Ltd.-Electromagnetic Compatibility Laboratory Address: No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333



No.	Mk	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Measurement (dBuV/m)	Limit (dBuV/m)	Over (dB)	Detector	Height (cm)	Degree (deg.)	Comment
1		1476.000	57.30	-22.13	35.17	80.00	-44.83	peak			
2		2428.000	59.21	-18.73	40.48	80.00	-39.52	peak			
3		4961.000	54.86	-12.67	42.19	80.00	-37.81	peak			
4		6287.000	53.08	-9.46	43.62	80.00	-36.38	peak			
5		8548.000	51.74	-1.72	50.02	80.00	-29.98	peak			
6		8548.000	36.00	-1.72	34.28	60.00	-25.72	AVG			
7		10435.000	50.83	0.79	51.62	80.00	-28.38	peak	199	0	
8	*	10435.000	35.48	0.79	36.27	60.00	-23.73	AVG	199	0	

\*:Maximum data x:Over limit !:over margin

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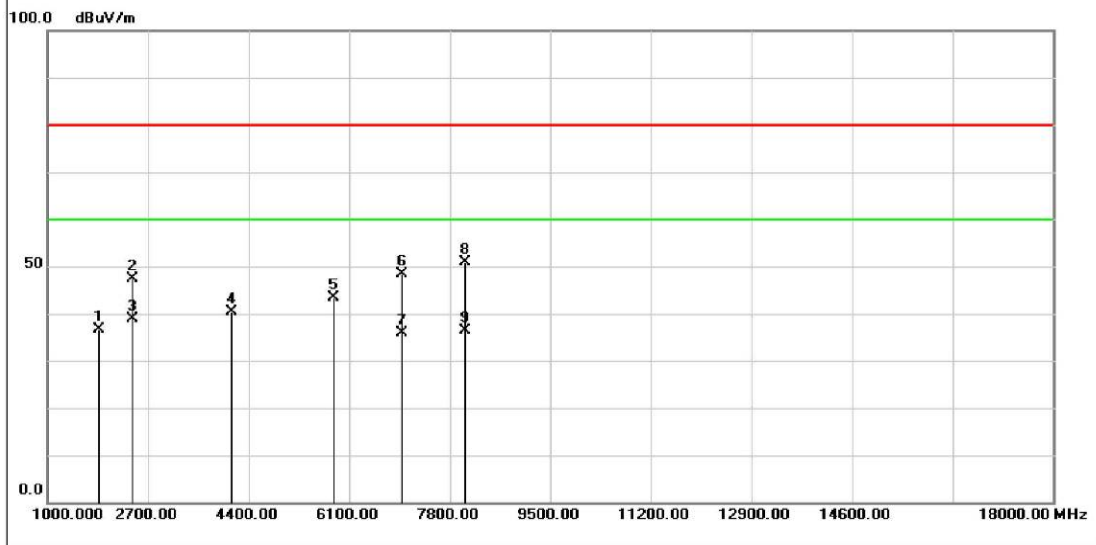
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### Mode\_1\_V

Site: SGS 966 Chamber A	Date: 2022/10/25	Time: 下午 08:11:55
Limit: FCC Class A 1G-18G(Peak)	Polarization: Vertical	Temperature: 20 °C
Mode: Mode 1	Power: DC 24V	Humidity: 65 %RH
Report: TMHY2208001385YE	Distance: 3m	atm pressure: 990 mbar
Tester: Boris Liao		

Note:

SGS Taiwan Ltd.-Electromagnetic Compatibility Laboratory Address: No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333



No.	Mk	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Measurement (dBuV/m)	Limit (dBuV/m)	Over (dB)	Detector	Height (cm)	Degree (deg.)	Comment
1		1867.000	57.73	-21.12	36.61	80.00	-43.39	peak			
2		2428.000	66.14	-18.73	47.41	80.00	-32.59	peak	200	177	
3	*	2428.000	57.58	-18.73	38.85	60.00	-21.15	AVG	200	177	
4		4111.000	55.36	-14.96	40.40	80.00	-39.60	peak			
5		5845.000	54.06	-10.69	43.37	80.00	-36.63	peak			
6		7001.000	53.33	-4.87	48.46	80.00	-31.54	peak			
7		7001.000	40.64	-4.87	35.77	60.00	-24.23	AVG			
8		8055.000	53.14	-2.31	50.83	80.00	-29.17	peak			
9		8055.000	38.80	-2.31	36.49	60.00	-23.51	AVG			

\*:Maximum data x:Over limit !:over margin

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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