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# FCC Test Report

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Report No.: AGC12533220401FE03

**FCC ID** : 2AIKSSIRIUS  
**APPLICATION PURPOSE** : Original Equipment  
**PRODUCT DESIGNATION** : SIRIUS  
**BRAND NAME** : MARES  
**MODEL NAME** : SIRIUS  
**APPLICANT** : MARES SPA  
**DATE OF ISSUE** : Oct. 31, 2022  
**STANDARD(S)** : FCC Part 15 Rules  
**TEST PROCEDURE(S)**  
**REPORT VERSION** : V1.0

Attestation of Global Compliance (Shenzhen) Co., Ltd



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**REPORT REVISE RECORD**

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Oct. 31, 2022	Valid	Initial Release

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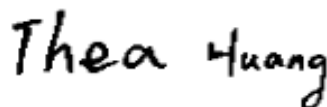
## 1. VERIFICATION OF CONFORMITY

<b>Applicant</b>	MARES SPA
<b>Address</b>	SALITA BONSEN, 4 16035 RAPALLO (GE) ITALY
<b>Manufacturer</b>	MARES SPA
<b>Address</b>	SALITA BONSEN, 4 16035 RAPALLO (GE) ITALY
<b>Factory</b>	MARES SPA
<b>Address</b>	SALITA BONSEN, 4 16035 RAPALLO (GE) ITALY
<b>Product Designation</b>	SIRIUS
<b>Brand Name</b>	MARES
<b>Test Model</b>	SIRIUS
<b>Date of receipt of test item</b>	Jun. 16, 2022
<b>Date of test</b>	Jun. 16, 2022 to Oct. 30, 2022
<b>Deviation</b>	No any deviation from the test method
<b>Condition of Test Sample</b>	Normal
<b>Test Result</b>	Pass
<b>Report Template</b>	AGCRT-US-2.4G/RF

We hereby certify that:

The above equipment was tested by Attestation of Global Compliance (Shenzhen) Co., Ltd. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10 (2013) and the energy emitted by the sample EUT tested as described in this report is in compliance with radiated emission limits of FCC Rules Part 15.249.

Prepared By



Thea Huang  
(Project Engineer)

Oct. 31, 2022

Reviewed By



Calvin Liu  
(Reviewer)

Oct. 31, 2022

Approved By



Max Zhang  
(Authorized Officer)

Oct. 31, 2022

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## 2. GENERAL INFORMATION

### 2.1. PRODUCT DESCRIPTION

A major technical description of EUT is described as following

<b>Operation Frequency</b>	2402MHz-2480MHz
<b>Maximum field strength</b>	96.57dBuV/m(Peak)@3m
<b>Modulation</b>	GFSK
<b>Number of channels</b>	40 Channels
<b>Antenna Gain</b>	1dBi
<b>Antenna Designation</b>	Chip Antenna
<b>Hardware Version</b>	100
<b>Software Version</b>	V1.0
<b>Power Supply</b>	DC 3.7V by battery or DC 5V by wireless charging

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## 2.2. TABLE OF CARRIER FREQUENCY

Channel	Frequency (GHz)	Channel	Frequency (GHz)
00	2.402	20	2.442
01	2.404	21	2.444
02	2.406	22	2.446
03	2.408	23	2.448
04	2.410	24	2.450
05	2.412	25	2.452
06	2.414	26	2.454
07	2.416	27	2.456
08	2.418	28	2.458
09	2.420	29	2.460
10	2.422	30	2.462
11	2.424	31	2.464
12	2.426	32	2.466
13	2.428	33	2.468
14	2.430	34	2.470
15	2.432	35	2.472
16	2.434	36	2.474
17	2.436	37	2.476
18	2.438	38	2.478
19	2.440	39	2.480

## 2.3. ANTENNA REQUIREMENT

This intentional radiator is designed with a permanently attached antenna of an antenna to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

For more information of the antenna, please refer to the APPENDIX B: PHOTOGRAPHS OF EUT.

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### 3. MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement  $y \pm U$ , where expanded uncertainty  $U$  is based on a standard uncertainty multiplied by a coverage factor of  $k=2$ , providing a level of confidence of approximately 95%.

Item	Measurement Uncertainty
Uncertainty of Conducted Emission for AC Port	$U_c = \pm 2.9 \text{ dB}$
Uncertainty of Radiated Emission below 1GHz	$U_c = \pm 3.8 \text{ dB}$
Uncertainty of Radiated Emission above 1GHz	$U_c = \pm 4.9 \text{ dB}$
Uncertainty of Occupied Channel Bandwidth	$U_c = \pm 2 \%$

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#### 4. DESCRIPTION OF TEST MODES

NO.	TEST MODE DESCRIPTION
1	Low channel TX_2402MHz_GFSK_1Mbps
2	Middle channel TX_2440MHz_GFSK_1Mbps
3	High channel TX_2480MHz_GFSK_1Mbps

Note:

- All the test modes can be supply by battery, only the result of the worst case was recorded in the report, if no other cases.
- For Radiated Emission, 3axis were chosen for testing for each applicable mode.

#### Software Setting



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## 5. SYSTEM TEST CONFIGURATION

### 5.1. CONFIGURATION OF EUT SYSTEM

Configure:



### 5.2 EQUIPMENT USED IN TESTED SYSTEM

Item	Equipment	Model No.	ID or Specification	Remark
1	SIRIUS	SIRIUS	2AIKSSIRIUS	EUT

### 5.3. SUMMARY OF TEST RESULTS

FCC RULES	DESCRIPTION OF TEST	RESULT
§15.249&15.209	Radiated Emission	Compliant
§15.249	Band Edges	Compliant
§15.215	20dB bandwidth	Compliant
§15.207	Conducted Emission	Not applicable

Note: The battery can only be charged wirelessly.

## 6. TEST FACILITY

<b>Test Site</b>	Attestation of Global Compliance (Shenzhen) Co., Ltd
<b>Location</b>	1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China
<b>Designation Number</b>	CN1259
<b>FCC Test Firm Registration Number</b>	975832
<b>A2LA Cert. No.</b>	5054.02
<b>Description</b>	Attestation of Global Compliance(Shenzhen) Co., Ltd is accredited by A2LA

## TEST EQUIPMENT OF RADIATED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
Test Receiver	R&S	ESCI	10096	Mar. 28, 2022	Mar. 27, 2023
EXA Signal Analyzer	Aglient	N9010A	MY53470504	Nov. 17, 2021	Nov. 16, 2022
Signal Analyzer	Aglient	N9020A	MY52090123	Sep. 06, 2021	Sep. 05, 2022
Signal Analyzer	Aglient	N9020A	MY52090123	Aug. 04, 2022	Aug. 03, 2023
2.4GHz Filter	EM Electronics	N/A	N/A	Mar. 18, 2022	Mar. 19, 2024
Attenuator	ZHINAN	E-002	N/A	Sep. 03, 2020	Sep. 02, 2022
Attenuator	ZHINAN	E-002	N/A	Aug. 04, 2022	Aug. 03, 2024
Horn Antenna	SCHWARZBEC	BBHA9170	768	Oct. 31, 2021	Oct. 30, 2023
Active Loop Antenna (9K-30Mhz)	ZHINAN	ZN30900C	18051	Mar. 12, 2022	Mar. 11, 2024
Double-Ridged Waveguide Horn	ETS	3117	00034609	Apr. 23, 2021	Apr. 22, 2023
Preamplifier Assembly	ETS	3117PA	00225134	Sep. 03, 2020	Sep. 02, 2022
Preamplifier Assembly	ETS	3117PA	00225134	Sep. 01, 2022	Sep. 02, 2024
Wideband Antenna	SCHWARZBECK	VULB9168	VULB9168-494	Jan. 08, 2021	Jan. 07, 2023
Test Software	FARA	EZ-EMC	Ver.RA-03A	N/A	N/A

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## 7. RADIATED EMISSION

### 7.1. TEST LIMIT

#### Standard FCC15.249

Fundamental Frequency	Field Strength of Fundamental (millivolts/meter)	Field Strength of Harmonics (microvolts/meter)
900-928MHz	50	500
2400-2483.5MHz	50	500
5725-5875MHz	50	500
24.0-24.25GHz	250	2500

#### Standard FCC 15.209

Frequency (MHz)	Distance Meters	Field Strengths Limit	
		$\mu$ V/m	dB( $\mu$ V)/m
0.009 ~ 0.490	300	2400/F(kHz)	---
0.490 ~ 1.705	30	24000/F(kHz)	---
1.705 ~ 30	30	30	---
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
960 ~ 1000	3	500	54.0
Above 1000	3	Other:74.0 dB( $\mu$ V)/m (Peak) 54.0 dB( $\mu$ V)/m (Average)	

Remark: (1) Emission level dB  $\mu$  V = 20 log Emission level  $\mu$  V/m.  
(2) The smaller limit shall apply at the cross point between two frequency bands.  
(3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

## 7.2. MEASUREMENT PROCEDURE

1. The EUT was placed on the top of the turntable 0.8 or 1.5 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
4. For each suspected emissions, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
6. For emissions above 1GHz, use minimum resolution bandwidth of 1 MHz. Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
7. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum values.
8. If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
9. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
10. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High - Low scan is not required in this case.

The following table is the setting of spectrum analyzer and receiver.

Spectrum Parameter	Setting
Start ~Stop Frequency	9KHz~150KHz/RB 200Hz for QP
Start ~Stop Frequency	150KHz~30MHz/RB 9KHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RB 120KHz for QP
Start ~Stop Frequency	1GHz~26.5GHz RBW 2.4MHz/ VBW 8MHz for Peak, RBW 2.4MHz/3MHz for Average

Receiver Parameter	Setting
Start ~Stop Frequency	9KHz~150KHz/RB 200Hz for QP
Start ~Stop Frequency	150KHz~30MHz/RB 9KHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RB 120KHz for QP

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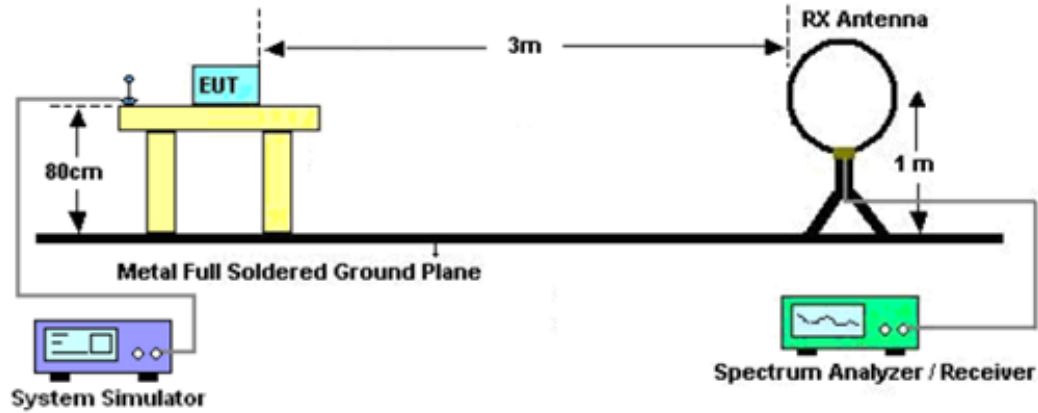
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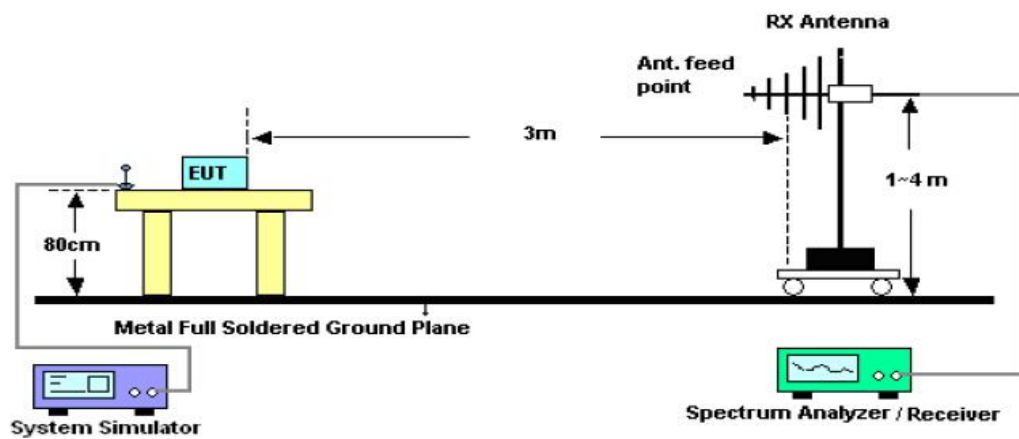
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### 7.3. TEST SETUP

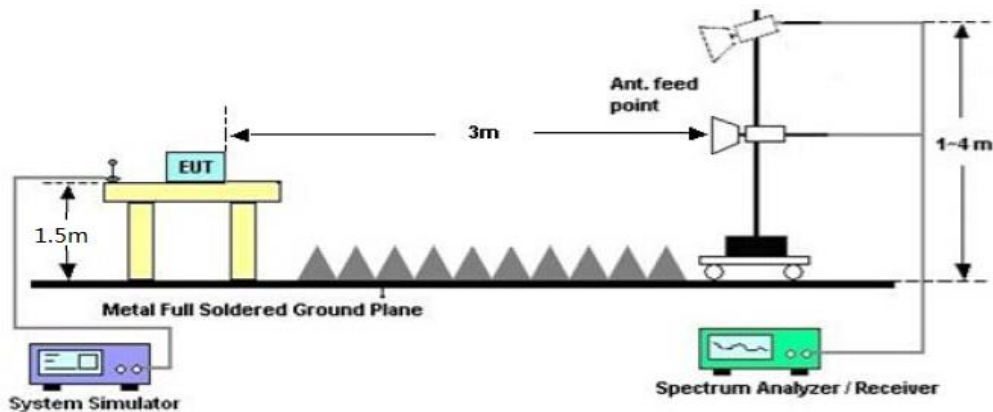
#### Radiated Emission Test-Setup Frequency Below 30MHz



#### RADIATED EMISSION TEST SETUP 30MHz-1000MHz



#### RADIATED EMISSION TEST SETUP ABOVE 1000MHz



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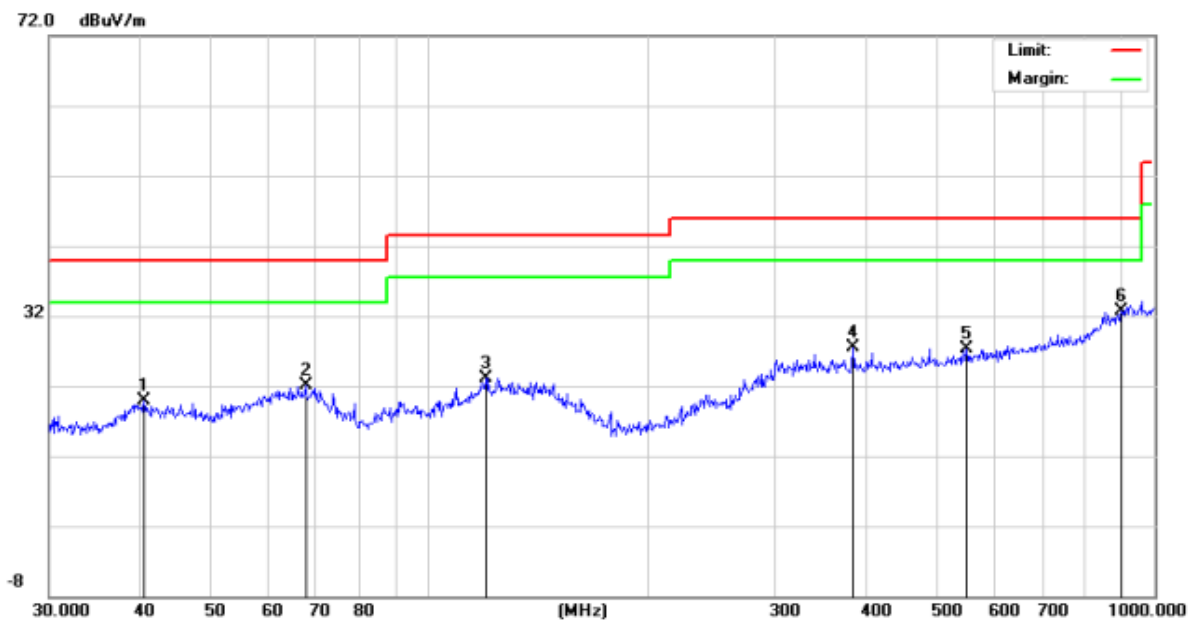
## 7.4. TEST RESULT

### RADIATED EMISSION BELOW 30MHZ

The amplitude of spurious emissions from 9kHz to 30MHz which are attenuated more than 20 dB below the permissible value need not be reported.

### RADIATED EMISSION 30MHz- 1GHZ

EUT	RC TOYS	Model Name	SIRIUS
Temperature	24°C	Relative Humidity	57%
Pressure	985kPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Polarization	Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		40.5591	4.89	15.01	19.90	40.00	-20.10	peak
2		67.6751	5.08	16.96	22.04	40.00	-17.96	peak
3		119.8556	5.18	17.95	23.13	43.50	-20.37	peak
4		383.9318	6.86	20.64	27.50	46.00	-18.50	peak
5		550.9480	5.80	21.49	27.29	46.00	-18.71	peak
6	*	900.1474	4.92	27.87	32.79	46.00	-13.21	peak

**RESULT: PASS**

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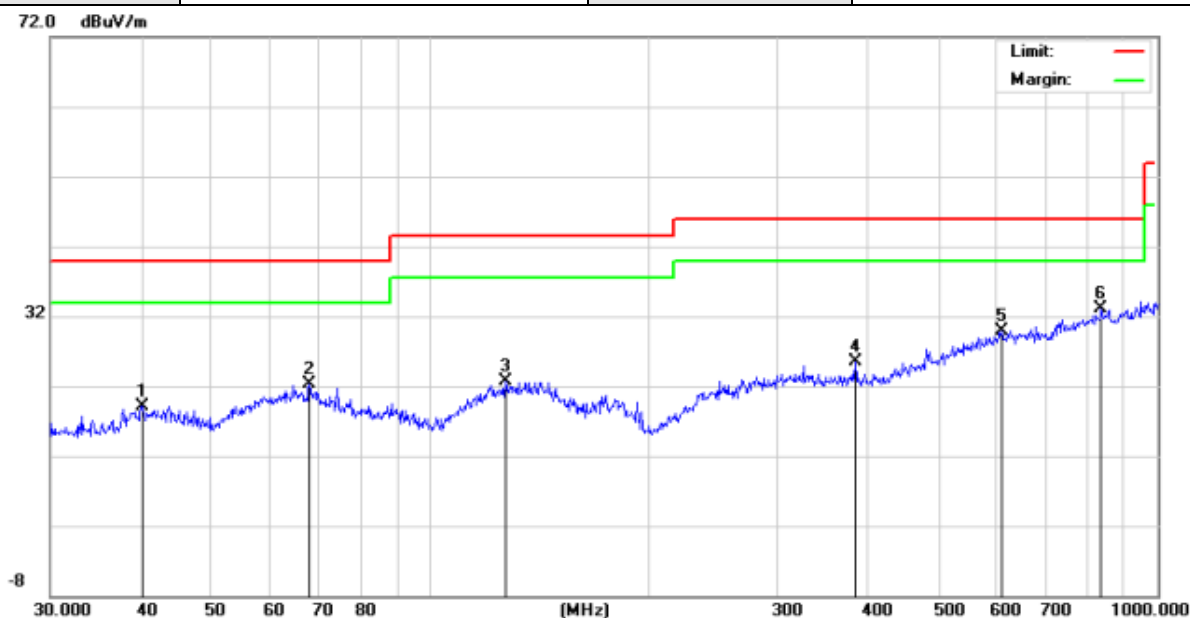
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EUT	SIRIUS	Model Name	SIRIUS
Temperature	24°C	Relative Humidity	57%
Pressure	985kPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Polarization	Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		40.1347	4.05	15.07	19.12	40.00	-20.88	peak
2		68.1512	5.17	17.07	22.24	40.00	-17.76	peak
3		126.7723	4.60	18.06	22.66	43.50	-20.84	peak
4		383.9318	6.46	19.06	25.52	46.00	-20.48	peak
5		609.9215	4.95	24.97	29.92	46.00	-16.08	peak
6	*	836.2441	5.54	27.49	33.03	46.00	-12.97	peak

## RESULT: PASS

**Note:** Factor=Antenna Factor + Cable loss, Margin=Limit-Level.

The “Factor” value can be calculated automatically by software of measurement system.

All modes of each antenna are tested. The mode 1 is the worst case and recorded in the report.

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### FIELD STRENGTH OF FUNDAMENTAL

<b>EUT</b>	SIRIUS	<b>Model Name</b>	SIRIUS
<b>Temperature</b>	24°C	<b>Relative Humidity</b>	59%
<b>Pressure</b>	985kPa	<b>Test Voltage</b>	Normal Voltage
<b>Test Modulation</b>	GFSK	<b>Polarization</b>	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2402	46.79	49.05	95.84	114.00	-18.16	peak
2402	13.26	49.05	62.31	94.00	-31.69	AVG
2440	46.45	49.12	95.57	114.00	-18.43	peak
2440	12.62	49.12	61.74	94.00	-32.26	AVG
2480	47.32	49.25	96.57	114.00	-17.43	peak
2480	11.53	49.25	60.78	94.00	-33.22	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

<b>EUT</b>	SIRIUS	<b>Model Name</b>	SIRIUS
<b>Temperature</b>	24°C	<b>Relative Humidity</b>	59%
<b>Pressure</b>	985kPa	<b>Test Voltage</b>	Normal Voltage
<b>Test Modulation</b>	GFSK	<b>Polarization</b>	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2402	44.37	49.05	85.28	114.00	-28.72	peak
2402	29.51	49.05	57.73	94.00	-36.27	AVG
2440	45.31	49.12	84.65	114.00	-29.35	peak
2440	30.11	49.12	58.37	94.00	-35.63	AVG
2480	40.78	49.25	85.18	114.00	-28.82	peak
2480	30.48	49.25	60.79	94.00	-33.21	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

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### RADIATED EMISSION ABOVE 1GHZ

<b>EUT</b>	SIRIUS	<b>Model Name</b>	SIRIUS
<b>Temperature</b>	24°C	<b>Relative Humidity</b>	57%
<b>Pressure</b>	985kPa	<b>Test Voltage</b>	Normal Voltage
<b>Test Mode</b>	Mode 1	<b>Polarization</b>	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4804	45.82	3.76	49.58	74.00	-24.42	peak
4804	36.37	3.76	40.13	54.00	-13.87	AVG
7206	42.09	8.17	50.26	74.00	-23.74	peak
7206	31.76	8.17	39.93	54.00	-14.07	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

<b>EUT</b>	SIRIUS	<b>Model Name</b>	SIRIUS
<b>Temperature</b>	24°C	<b>Relative Humidity</b>	57%
<b>Pressure</b>	985kPa	<b>Test Voltage</b>	Normal Voltage
<b>Test Mode</b>	Mode 1	<b>Polarization</b>	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4804	44.92	3.76	48.68	74.00	-25.32	peak
4804	35.16	3.76	38.92	54.00	-15.08	AVG
7206	40.41	8.17	48.58	74.00	-25.42	peak
7206	31.37	8.17	39.54	54.00	-14.46	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

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<b>EUT</b>	SIRIUS	<b>Model Name</b>	SIRIUS
<b>Temperature</b>	24°C	<b>Relative Humidity</b>	57%
<b>Pressure</b>	985kPa	<b>Test Voltage</b>	Normal Voltage
<b>Test Mode</b>	Mode 2	<b>Polarization</b>	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4880	46.91	3.78	50.69	74.00	-23.31	peak
4880	37.52	3.78	41.30	54.00	-12.70	AVG
7320	42.15	8.23	50.38	74.00	-23.62	peak
7320	33.67	8.23	41.90	54.00	-12.10	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

<b>EUT</b>	SIRIUS	<b>Model Name</b>	SIRIUS
<b>Temperature</b>	24°C	<b>Relative Humidity</b>	57%
<b>Pressure</b>	985kPa	<b>Test Voltage</b>	Normal Voltage
<b>Test Mode</b>	Mode 2	<b>Polarization</b>	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4880	44.55	3.78	48.33	74.00	-25.67	peak
4880	34.37	3.78	38.15	54.00	-15.85	AVG
7320	40.06	8.23	48.29	74.00	-25.71	peak
7320	30.13	8.23	38.36	54.00	-15.64	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

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<b>EUT</b>	SIRIUS	<b>Model Name</b>	SIRIUS
<b>Temperature</b>	24°C	<b>Relative Humidity</b>	57%
<b>Pressure</b>	985kPa	<b>Test Voltage</b>	Normal Voltage
<b>Test Mode</b>	Mode 3	<b>Polarization</b>	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4960	45.31	3.81	49.12	74.00	-24.88	peak
4960	36.24	3.81	40.05	54.00	-13.95	AVG
7440	41.58	8.27	49.85	74.00	-24.15	peak
7440	31.56	8.27	39.83	54.00	-14.17	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

<b>EUT</b>	SIRIUS	<b>Model Name</b>	SIRIUS
<b>Temperature</b>	24°C	<b>Relative Humidity</b>	57%
<b>Pressure</b>	985kPa	<b>Test Voltage</b>	Normal Voltage
<b>Test Mode</b>	Mode 3	<b>Polarization</b>	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4960	44.71	3.81	48.52	74.00	-25.48	peak
4960	35.25	3.81	39.06	54.00	-14.94	AVG
7440	41.36	8.27	49.63	74.00	-24.37	peak
7440	31.67	8.27	39.94	54.00	-14.06	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

## RESULT: PASS

**Note:** The amplitude of other spurious emissions from 1G to 25 GHz which are attenuated more than 20 dB below the permissible value need not be reported.

Factor=Antenna Factor + Cable loss - Amplifier gain, Margin=Emission Level-Limit.

The “Factor” value can be calculated automatically by software of measurement system.

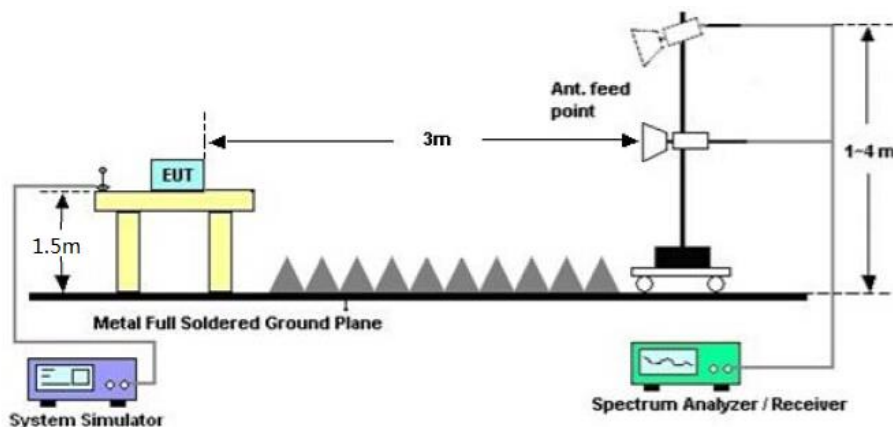
## 8. BAND EDGE EMISSION

### 8.1. MEASUREMENT PROCEDURE

1. The EUT operates at transmitting mode. The operate channel is tested to verify the largest transmission and spurious emissions power at the continuous transmission mode.
2. Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission: (a) PEAK: RBW=1MHz, VBW=3MHz / Sweep=AUTO  
(b) AVERAGE: RBW=1MHz; VBW=3MHz / Sweep=AUTO
3. Other procedures refer to clause 7.2.

### 8.2. TEST SETUP

RADIATED EMISSION TEST SETUP



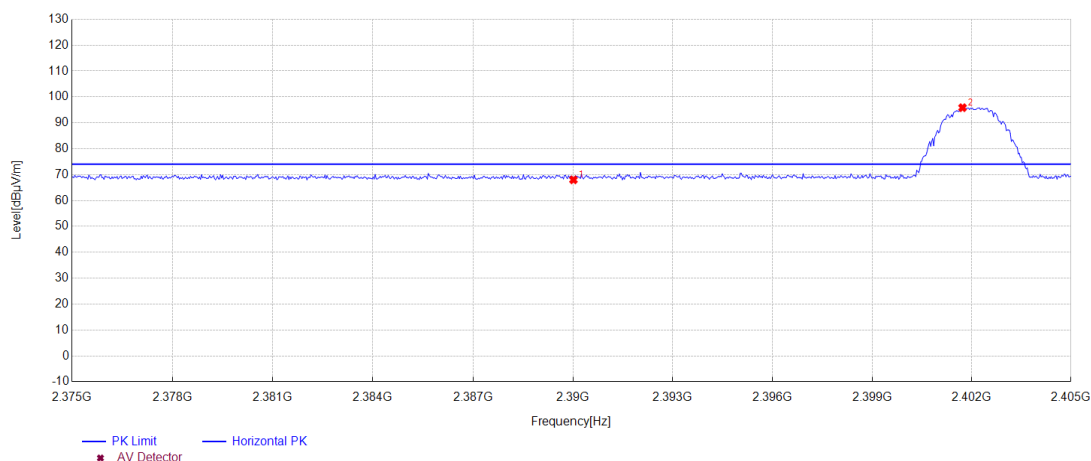
### 8.3 RADIATED TEST RESULT

#### Note:

1. Factor=Antenna Factor + Cable loss - Amplifier gain. Field Strength=Factor + Reading level
2. The factor had been edited in the "Input Correction" of the Spectrum Analyzer. So the Amplitude of test plots is equal to Reading level plus the Factor in dB. Use the A dB( $\mu$ V) to represent the Amplitude. Use the F dB( $\mu$ V/m) to represent the Field Strength. So A=F.

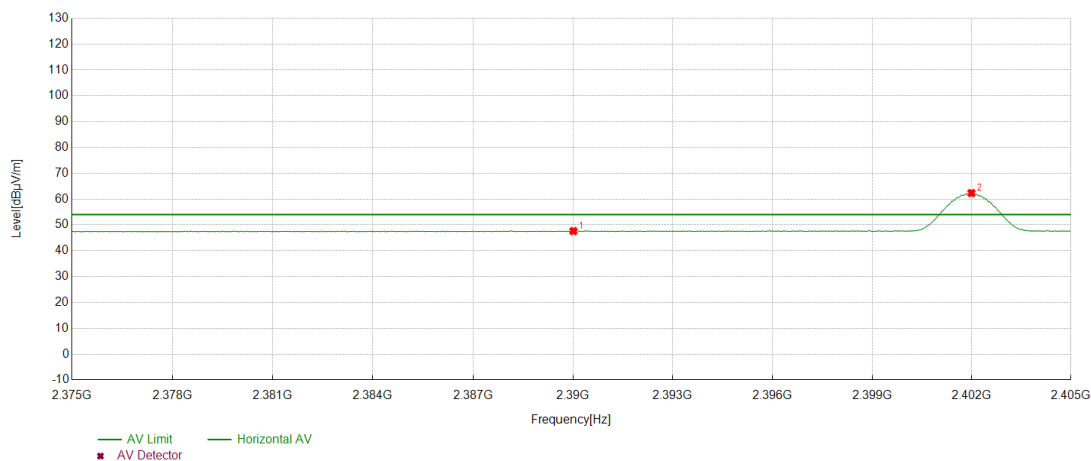
EUT	SIRIUS	Model Name	SIRIUS
Temperature	26°C	Relative Humidity	69%
Pressure	985hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Polarization	Horizontal

### Peak Value



NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2390.015	67.97	33.57	74.00	6.03	150	144	Horizontal
2	2401.7267	95.84	33.63	74.00	-21.84	150	328	Horizontal

### Average Value



NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2390.015	47.60	33.57	54.00	6.40	150	220	Horizontal
2	2401.997	62.31	33.63	54.00	-8.31	150	150	Horizontal

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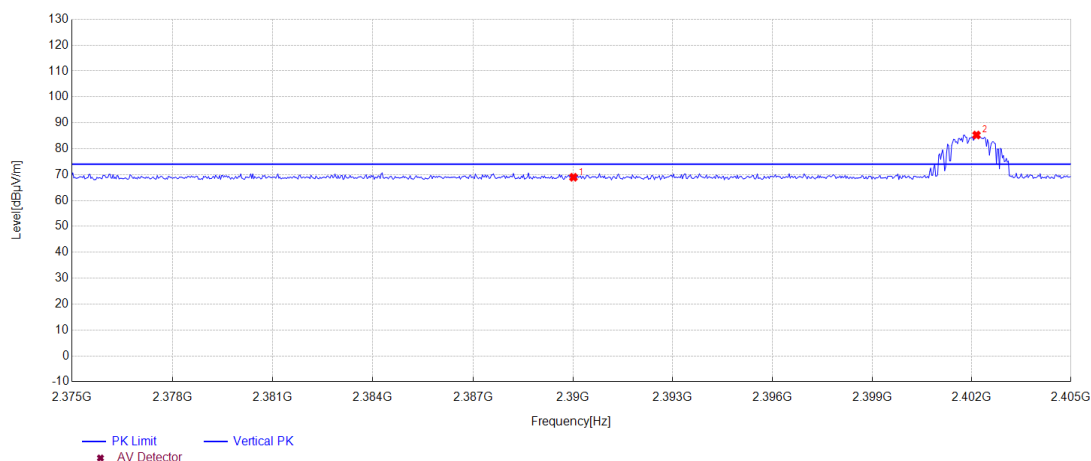
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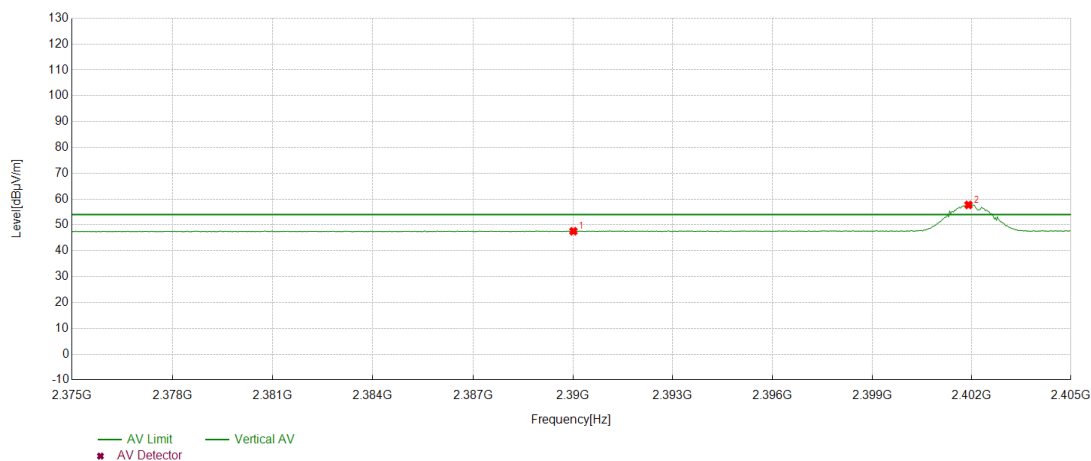
EUT	SIRIUS	Model Name	SIRIUS
Temperature	26°C	Relative Humidity	69%
Pressure	985hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Polarization	Vertical

### Peak Value



NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2390.015	68.97	33.57	74.00	5.03	150	172	Vertical
2	2402.1471	85.28	33.63	74.00	-11.28	150	355	Vertical

### Average Value



NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2390.015	47.55	33.57	54.00	6.45	150	340	Vertical
2	2401.9069	57.73	33.63	54.00	-3.73	150	300	Vertical

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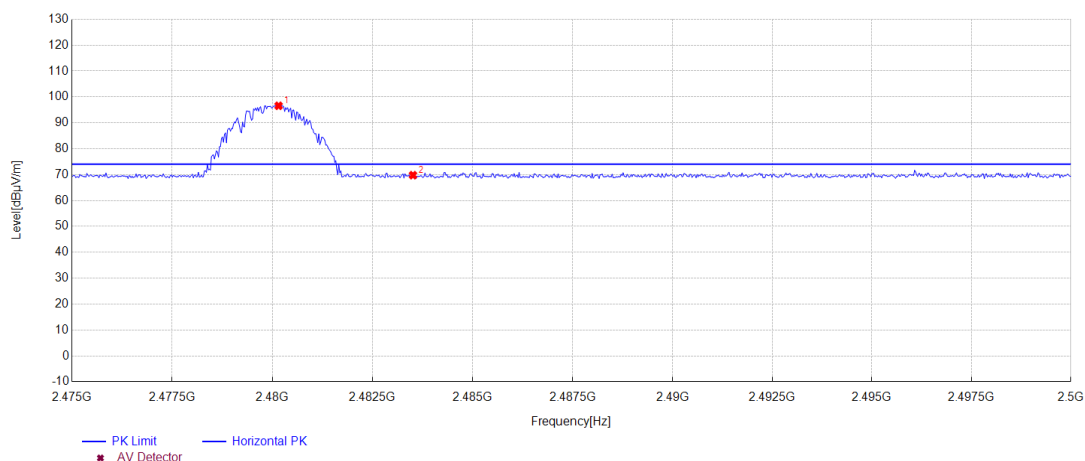
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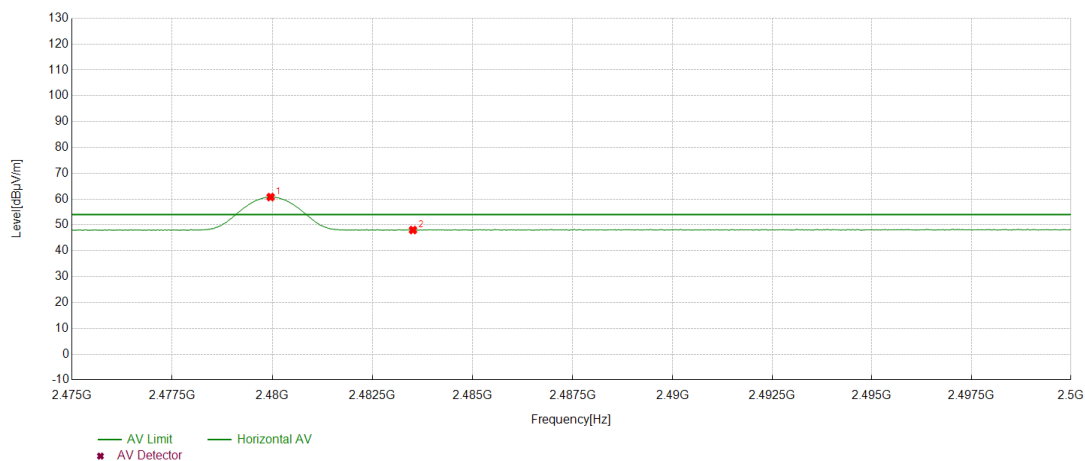
EUT	SIRIUS	Model Name	SIRIUS
Temperature	26°C	Relative Humidity	69%
Pressure	985hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Polarization	Horizontal

### Peak Value



NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2480.1552	96.57	33.99	74.00	-22.57	150	331	Horizontal
2	2483.5085	69.78	34.00	74.00	4.22	150	278	Horizontal

### Average Value



NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2479.955	60.78	33.99	54.00	-6.78	150	180	Horizontal
2	2483.5085	48.02	34.00	54.00	5.98	150	330	Horizontal

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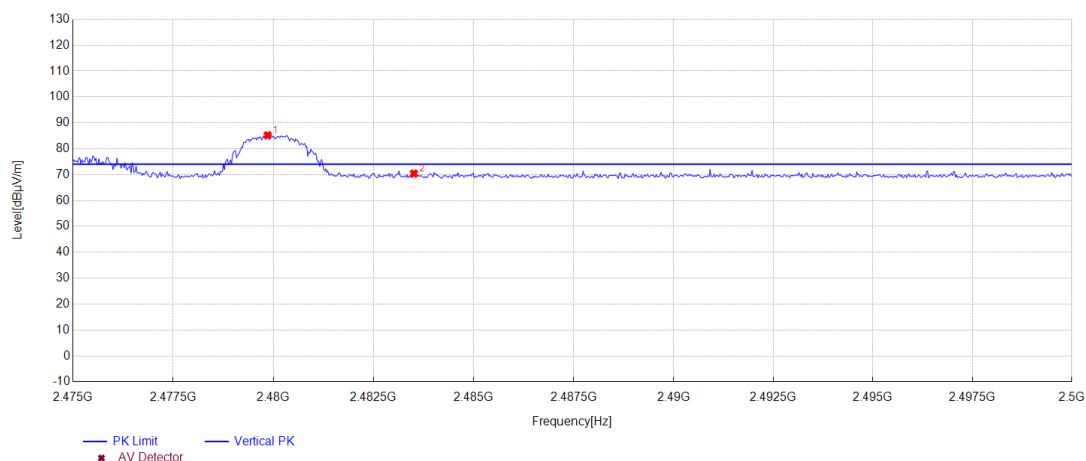
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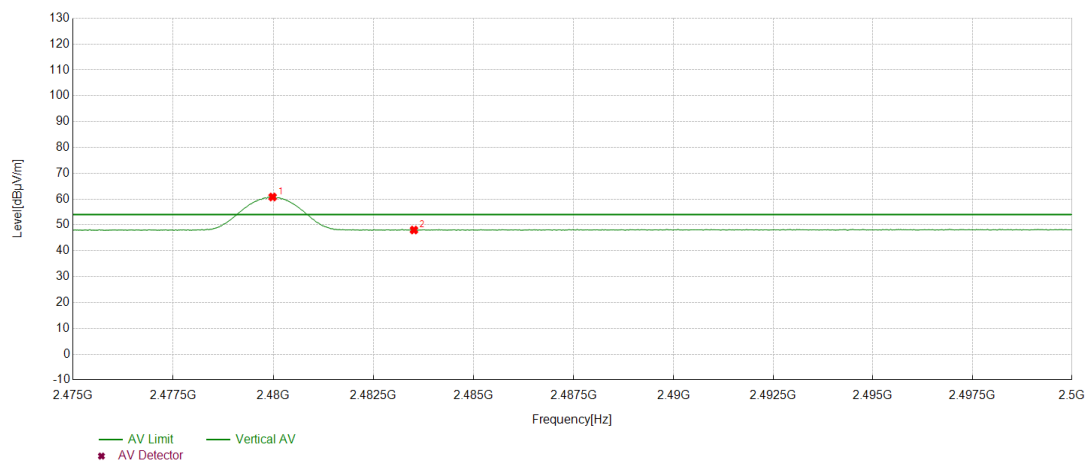
EUT	SIRIUS	Model Name	SIRIUS
Temperature	26°C	Relative Humidity	69%
Pressure	985hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Polarization	Vertical

### Peak Value



NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2479.8549	85.18	33.99	74.00	-11.18	150	128	Vertical
2	2483.5085	70.38	34.00	74.00	3.62	150	274	Vertical

### Average Value



NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2479.98	60.79	33.99	54.00	-6.79	150	230	Vertical
2	2483.5085	48.02	34.00	54.00	5.98	150	280	Vertical

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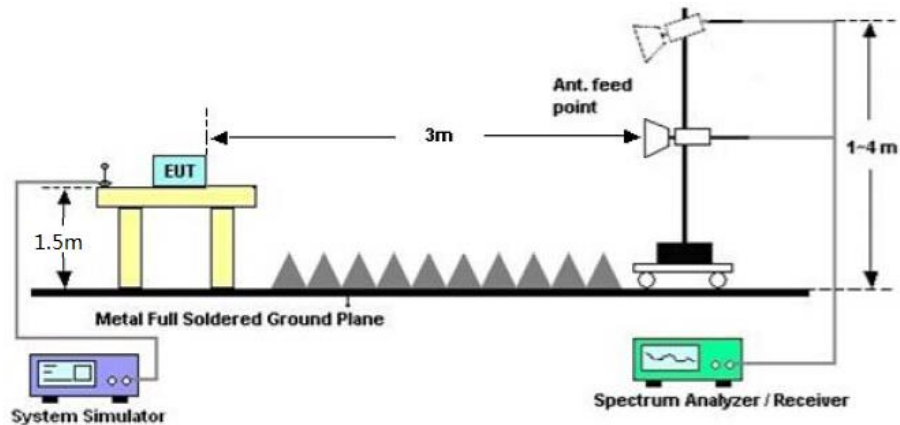
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## 9. 20DB BANDWIDTH

### 9.1. MEASUREMENT PROCEDURE

1. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
2. Set SPA Centre Frequency = Operation Frequency, RBW= 30 KHz, VBW  $\geq 3 \times$  RBW.
3. Set SPA Trace 1 Max hold, then View.

### 9.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)



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### 9.3. MEASUREMENT RESULTS

TEST ITEM	20DB BANDWIDTH
TEST MODULATION	GFSK

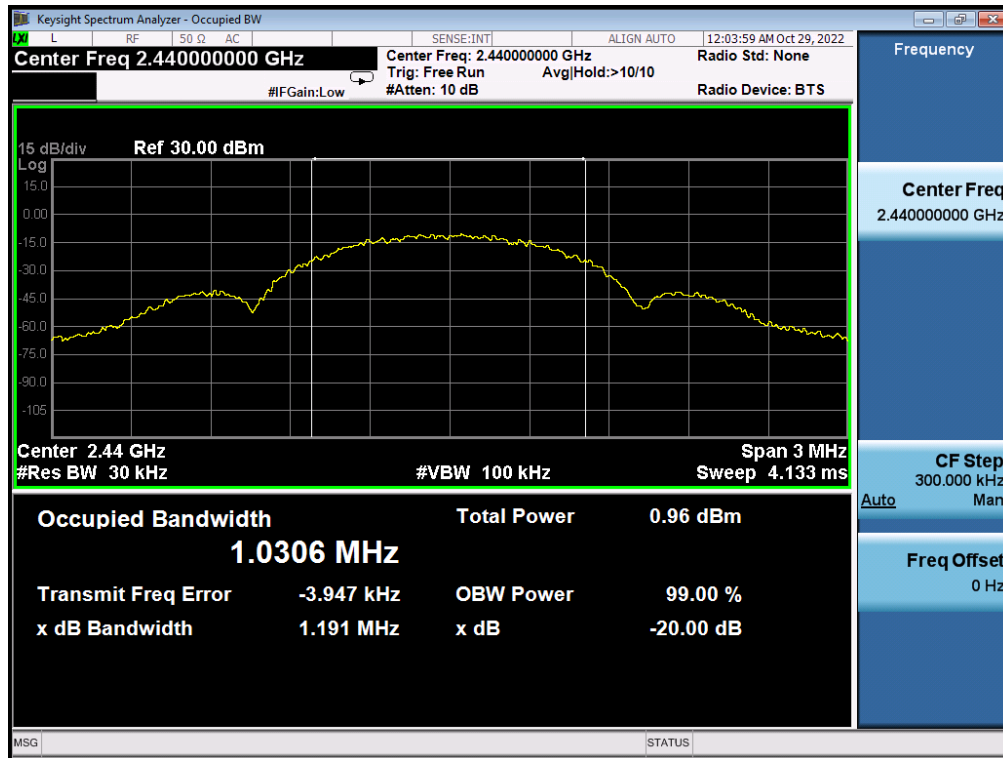
Test Channel (MHz)	20DB BANDWIDTH (MHz)	99% BANDWIDTH (MHz)	Criteria
2402	1.176	1.0336	PASS
2440	1.191	1.0306	PASS
2480	1.181	1.0353	PASS

TEST PLOT OF BANDWIDTH FOR LOW CHANNEL

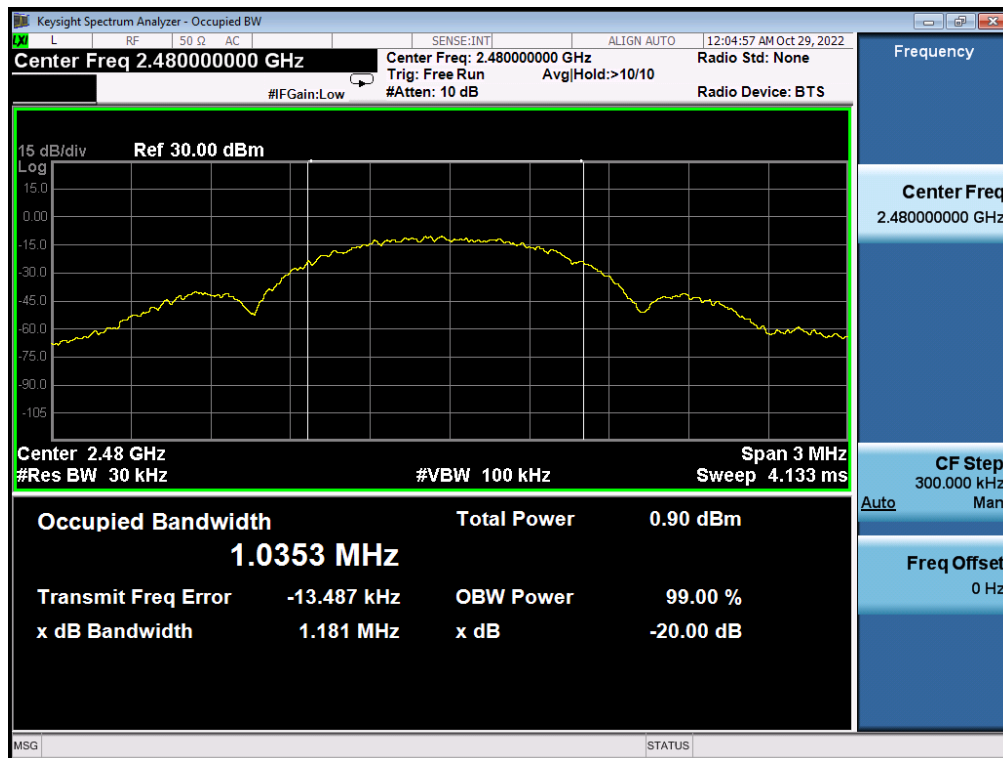


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### TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



### TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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## 10. FCC LINE CONDUCTED EMISSION TEST

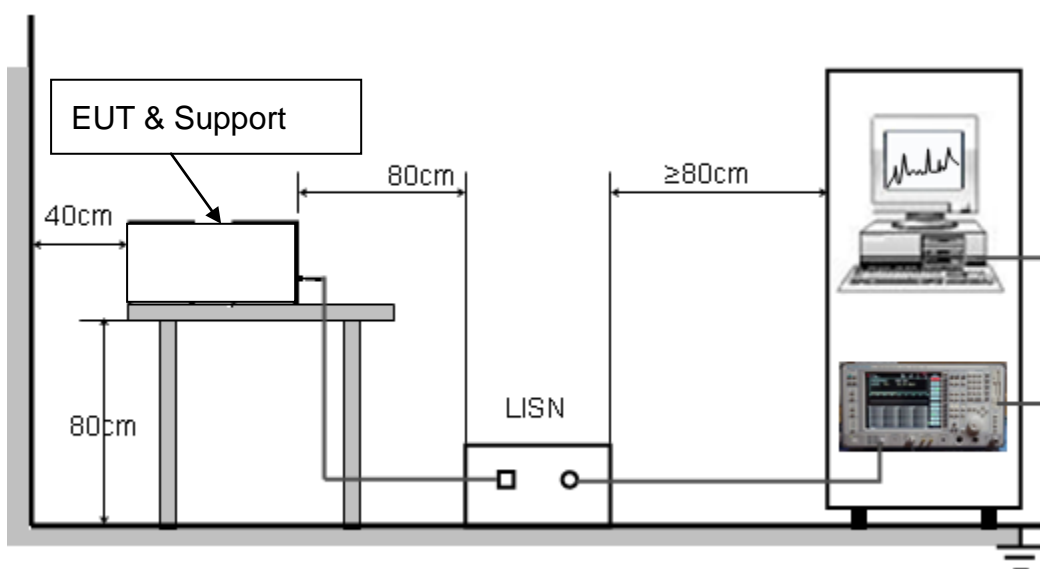
### 10.1. LIMITS OF LINE CONDUCTED EMISSION TEST

Frequency	Maximum RF Line Voltage	
	Q.P.(dBuV)	Average(dBuV)
150kHz~500kHz	66-56	56-46
500kHz~5MHz	56	46
5MHz~30MHz	60	50

Note: 1. The lower limit shall apply at the transition frequency.

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

### 10.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST



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### 10.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST

1. The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
2. Support equipment, if needed, was placed as per ANSI C63.10.
3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.
4. All support equipment received AC120V/60Hz power from a LISN, if any.
5. The EUT received DC 3V power from PC which received AC120V/60Hz power from a LISN.
6. The test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
7. Analyzer / Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.
8. During the above scans, the emissions were maximized by cable manipulation.
9. The test mode(s) were scanned during the preliminary test.

Then, the EUT configuration and cable configuration of the above highest emission level were recorded for reference of final testing.

### 10.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST

1. EUT and support equipment was set up on the test bench as per step 2 of the preliminary test.
2. A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. If EUT emission level was less -2dB to the A.V. limit in Peak mode, then the emission signal was re-checked using Q.P and Average detector.
3. The test data of the worst case condition(s) was reported on the Summary Data page.

### 10.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

N/A

Note: The battery can only be charged wirelessly.

## **APPENDIX A: PHOTOGRAPHS OF TEST SETUP**

Refer to the Report No.: AGC12533220401AP02

## **APPENDIX B: PHOTOGRAPHS OF THE EUT**

Refer to the Report No.: AGC12533220401AP03

**----END OF REPORT----**

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8. The Company is not responsible for recalling the electronic version of the original report when any revision is made to them. The Client assumes the responsibility to providing the revised version to any interested party who uses them.
9. Subject to the variable length of retention time for test data and report stored hereinto as otherwise specifically required by individual accreditation authorities, the Company will only keep the supporting test data and information of the test report for a period of six years. The data and information will be disposed of after the aforementioned retention period has elapsed. Under no circumstances shall we provide any data and information which has been disposed of after retention period. Under no circumstances shall we be liable for damage of any kind, including (but not limited to) compensatory damages, lost profits, lost data, or any form of special, incidental, indirect, consequential or punitive damages of any kind, whether based on breach of contract of warranty, tort (including negligence), product liability or otherwise, even if we are informed in advance of the possibility of such damages.

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