



# **FCC TEST REPORT**

**FCC ID: SY4-A02034**

On Behalf of

**Shanghai Huace Navigation Technology Ltd.**

**Geodetic GNSS Receiver**

**Model No.: i73+**

Prepared for : Shanghai Huace Navigation Technology Ltd.  
Address : 599 Gaojing Road, Building D, Shanghai 201702, China

Prepared By : Shenzhen Alpha Product Testing Co., Ltd.  
Address : Building i, No.2, Lixin Road, Fuyong Street, Bao'an District, 518103,  
Shenzhen, Guangdong, China


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## TABLE OF CONTENTS

Description	Page
<b>1. Summary Of Standards And Results</b>	<b>6</b>
1.1. Description of Standards and Results	6
<b>2. General Information</b>	<b>7</b>
2.1. Description of Device (EUT)	7
2.2. Accessories of Device (EUT)	8
2.3. Tested Supporting System Details	8
2.4. Block Diagram of connection between EUT and simulators	8
2.5. Test Mode Description	8
2.6. Test Conditions	8
2.7. Test Facility	9
2.8. Measurement Uncertainty	9
2.9. Test Equipment List	10
<b>3. Spurious Emission</b>	<b>11</b>
3.1. Test Limits	11
3.2. Test Procedure	12
3.3. Test Setup	12
3.4. Test Results	13
<b>4. Power Line Conducted Emission</b>	<b>19</b>
4.1. Test Limits	19
4.2. Test Procedure	19
4.3. Test Setup	19
4.4. Test Results	19
<b>5. Conducted Maximum Output Power</b>	<b>21</b>
5.1. Test limits	21
5.2. Test Procedure	21
5.3. Test Setup	21
5.4. Test Results	21
<b>6. Power Spectral Density</b>	<b>22</b>
6.1. Test limits	22
6.2. Test Procedure	22
6.3. Test Setup	22
6.4. Test Results	22
<b>7. Bandwidth</b>	<b>24</b>
7.1. Test limits	24
7.2. Test Procedure	24
7.3. Test Setup	24
7.4. Test Results	24
<b>8. Band Edge Check</b>	<b>27</b>
8.1. Test limits	27
8.2. Test Procedure	27
8.3. Test Setup	27
8.4. Test Results	27
<b>9. Antenna Requirement</b>	<b>31</b>
9.1. Standard Requirement	31
9.2. Antenna Connected Construction	31

9.3. Results ----- 31

## TEST REPORT DECLARATION

Applicant : Shanghai Huace Navigation Technology Ltd.  
Address : 599 Gaojing Road, Building D, Shanghai 201702, China  
Manufacturer : Shanghai Huace Navigation Technology Ltd.  
Address : 599 Gaojing Road, Building D, Shanghai 201702, China  
EUT Description : Geodetic GNSS Receiver  
(A) Model No. : i73+  
(B) Trademark : 

Measurement Standard Used:

**FCC Rules and Regulations Part 15 Subpart C Section 15.247**

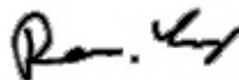
**ANSI C63.10:2013**

The device described above is tested by Shenzhen Alpha Product Testing Co., Ltd. to determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC Part 15 Subpart C limits both conducted and radiated emissions. The test results are contained in this test report and Shenzhen Alpha Product Testing Co., Ltd. is assumed of full responsibility for the accuracy and completeness of these tests.

After the test, our opinion is that EUT compliance with the requirement of the above standards.

This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of Shenzhen Alpha Product Testing Co., Ltd.

Tested by (name + signature).....: Reak Yang  
Project Engineer



Approved by (name + signature).....: Simple Guan  
Project Manager



Date of issue.....: April 08, 2022

**Revision History**

Revision	Issue Date	Revisions	Revised By
V0	April 08, 2022	Initial released Issue	Reak Yang

## 1. Summary Of Standards And Results

### 1.1. Description of Standards and Results

The EUT have been tested according to the applicable standards as referenced below:

Test Item	Standards Paragraph	Result
Conducted Emission	FCC PART 15: 15.207 ANSI C63.10 :2013	P
6dB Bandwidth	FCC PART 15: 15.247 (a)(2) ANSI C63.10 :2013	P
Output Power	FCC PART 15: 15.247 (b)(3) ANSI C63.10 :2013	P
Radiated Spurious Emission	FCC PART 15: 15.247 (c) ANSI C63.10 :2013	P
Conducted Spurious & Band Edge Emission	FCC PART 15: 15.247 (d) ANSI C63.10 :2013	P
Power Spectral Density	FCC PART 15: 15.247 (e) ANSI C63.10 :2013	P
Radiated Band Edge Emission	FCC PART 15: 15.205 ANSI C63.10 :2013	P
Antenna Requirement	FCC PART 15: 15.203 ANSI C63.10 :2013	P
Note:	1. P is an abbreviation for Pass. 2. F is an abbreviation for Fail. 3. N/A is an abbreviation for Not Applicable. 4. The conclusion of this test report is judged by actual test data without considering measurement uncertainty.	

## 2. General Information

### 2.1. Description of Device (EUT)

EUT Description : Geodetic GNSS Receiver

Trademark : 

Model Number : i73+

DIFF. : N/A

Test Voltage : DC 7.2V from battery, DC 5V for charging

#### BT

Radio Technology : Bluetooth (LE)

Operation frequency : 2402-2480MHz

Channel No. : 40 Channels

Modulation type : GFSK

Antenna Type : Internal antenna, Maximum Gain is 1.56dBi.

Software version : V1.0

Hardware version : V1.7.2

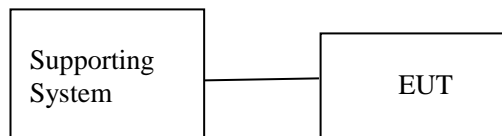
## 2.2. Accessories of Device (EUT)

Accessories1	:	AC Adapter
Manufacturer	:	Yisheng Electronics Co., Ltd.
Model	:	EA1012AVRU-050
Ratings	:	Input: AC 100-240V, 1.0A, 50-60Hz Output: DC 5V,2.4A

## 2.3. Tested Supporting System Details

No.	Description	Manufacturer	Model	Serial Number	Certification or DOC
1.	Notebook PC	DELL	Latitude 3490	--	SDOC

## 2.4. Block Diagram of connection between EUT and simulators



## 2.5. Test Mode Description

Tested mode, channel, and data rate information		
Mode	Channel	Frequency (MHz)
GFSK	Low :CH0	2402
	Middle: CH19	2440
	High: CH39	2480

## 2.6. Test Conditions

Items	Required	Actual
Temperature range:	15-35°C	24°C
Humidity range:	25-75%	56%
Pressure range:	86-106kPa	98kPa



## 2.7. Test Facility

Shenzhen Alpha Product Testing Co., Ltd  
Building i, No.2, Lixin Road, Fuyong Street, Bao'an District, 518103,  
Shenzhen, Guangdong, China

June 21, 2018 File on Federal Communication Commission  
Registration Number: 293961  
Designation Number: CN1236

July 15, 2019 Certificated by IC  
Registration Number: CN0085

## 2.8. Measurement Uncertainty

(95% confidence levels, k=2)

Item	Uncertainty
Uncertainty for Power point Conducted Emissions Test	2.74dB
Uncertainty for Radiation Emission test in 3m chamber (below 30MHz)	2.13 dB(Polarize: V)
	2.57dB(Polarize: H)
Uncertainty for Radiation Emission test in 3m chamber (30MHz to 1GHz)	3.77dB(Polarize: V)
	3.80dB(Polarize: H)
Uncertainty for Radiation Emission test in 3m chamber (1GHz to 25GHz)	4.16dB(Polarize: H)
	4.13dB(Polarize: V)
Uncertainty for radio frequency	$5.4 \times 10^{-8}$
Uncertainty for conducted RF Power	0.37dB
Uncertainty for temperature	0.2°C
Uncertainty for humidity	1%
Uncertainty for DC and low frequency voltages	0.06%

## 2.9. Test Equipment List

Equipment	Manufacture	Model No.	Serial No.	Last cal.	Cal Interval
9*6*6 anechoic chamber	CHENYU	9*6*6	N/A	2020.09.02	3Year
Spectrum analyzer	ROHDE&SCHWARZ	FSV40-N	102137	2021.08.25	1 Year
Spectrum analyzer	Agilent	N9020A	MY499100060	2021.08.25	1 Year
Receiver	ROHDE&SCHWARZ	ESR	1316.3003K03-10208 2-Wa	2021.08.25	1 Year
Receiver	R&S	ESCI	101165	2021.08.25	1 Year
Bilog Antenna	Schwarzbeck	VULB 9168	VULB9168-438	2020.04.12	2Year
Horn Antenna	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D(1201)	2020.04.12	2Year
Active Loop Antenna	SCHWARZBECK	FMZB 1519B	00059	2021.08.30	2Year
RF Cable	Resenberger	Cable 1	RE1	2021.08.25	1 Year
RF Cable	Resenberger	Cable 2	RE2	2021.08.25	1 Year
RF Cable	Resenberger	Cable 3	CE1	2021.08.25	1 Year
Pre-amplifier	HP	HP8347A	2834A00455	2021.08.25	1 Year
Pre-amplifier	Agilent	8449B	3008A02664	2021.08.25	1 Year
L.I.S.N.#1	Schwarzbeck	NSLK8126	8126-466	2021.08.25	1 Year
L.I.S.N.#2	ROHDE&SCHWARZ	ENV216	101043	2021.08.25	1 Year
Horn Antenna	SCHWARZBECK	BBHA9170	00946	2021.08.30	2 Year
Preamplifier	SKET	LNPA_1840 -50	SK2018101801	2021.08.25	1 Year
Power Meter	Agilent	E9300A	MY41496628	2021.08.25	1 Year
Power Sensor	DARE	RPR3006W	15100041SNO91	2021.08.25	1 Year
Temp. & Humid. Chamber	Weihuang	WHTH-1000 -40-880	100631	2021.04.21	1 Year
Switching Mode Power Supply	JUNKE	JK12010S	20140927-6	2021.08.25	1 Year
10dB Attenuator	Mini-Circuits	N/A	N/A	N/A	N/A
Adjustable attenuator	MWRFtest	N/A	N/A	N/A	N/A

Software Information			
Test Item	Software Name	Manufacturer	Version
RE	EZ-EMC	EZ	Alpha-3A1
CE	EZ-EMC	EZ	Alpha-3A1
RF-CE	MTS 8310	MW	V2.0.0.0

### 3. Spurious Emission

#### 3.1. Test Limits

All the emissions appearing within 15.205 restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions shall be at least 20dB below the fundamental emissions, or comply with 15.209 limits.

#### 15.205 Restricted frequency band

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
<sup>1</sup> 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2690 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	( <sup>2</sup> )

#### 15.209 Limit

FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMIT	
		μV/m	dB(μV)/m
0.009-0.490	300	2400/F(KHz)	/
0.490-1.705	30	24000/F(KHz)	/
1.705-30	30	30	29.5
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	74.0 dB(μV)/m (Peak) 54.0 dB(μV)/m (Average)	
Note 1: The peak limit is 20 dB higher than the average limit			

Harmonic emissions limits comply with below 54 dBuV/m at 3m. Other emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or comply with the radiated emissions limits specified in section 15.209(a) limit in the table below has to be followed.

### 3.2. Test Procedure

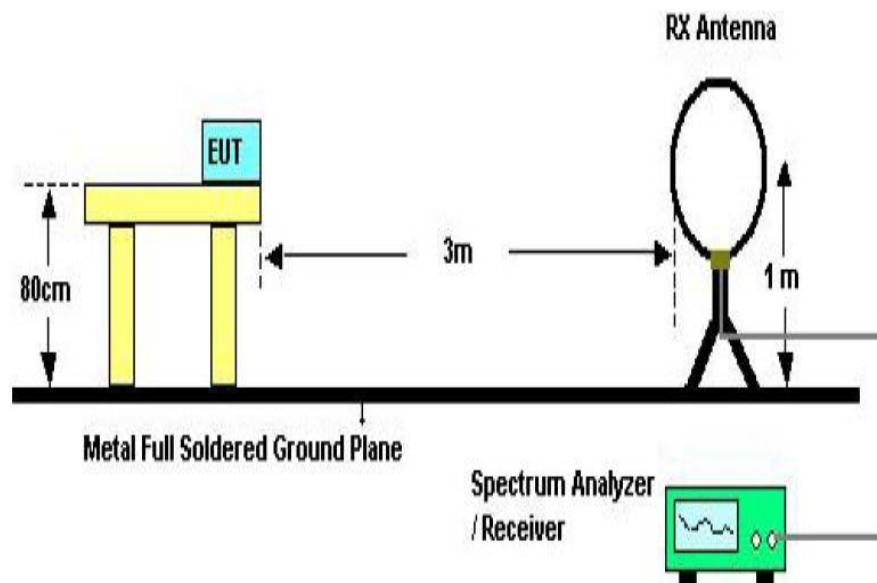
The measuring distance of 3m shall be used for measurements at frequency up to 1GHz and above 1GHz, The EUT was placed on a rotating 0.8 m high above ground for below 1GHz and 1.5m high for above 1GHz testing, The table was rotated 360 degrees to determine the position of the highest radiation

The Test antenna shall vary between 1m and 4m, Both Horizontal and Vertical antenna are set of make measurement.

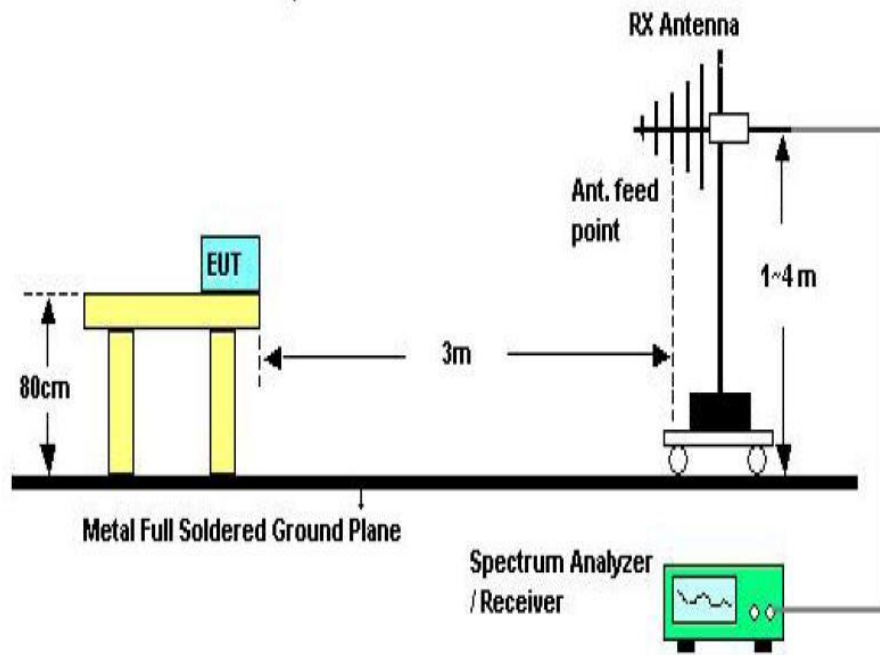
The initial step in collecting conducted emission data is a spectrum analyzer Peak detector mode pre-scanning the measurement frequency range. Significant Peaks are then marked. and then Qusia Peak Detector mode premeasured

If Peak value comply with QP limit Below 1GHz. The EUT deemed to comply with QP limit. But the Peak value and average value both need to comply with applicable limit above 1GHz. For the actual test configuration, please see the test setup photo.

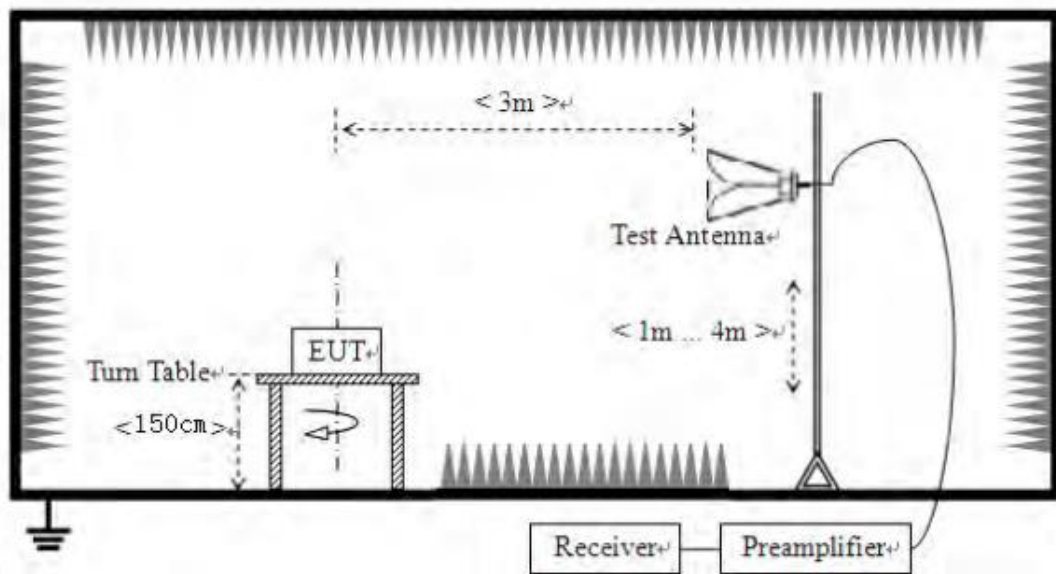
### 3.3. Test Setup



Below 30MHz Test Setup



Above 30MHz Test Setup



Above 1GHz Test Setup

### 3.4.Test Results

#### Test Condition

Continual Transmitting in maximum power.

9KHz~150KHz	RBW200Hz	VBW1KHz
150KHz~30MHz	RBW9KHz	VBW 30KHz
30MHz~1GHz	RBW120KHz	VBW 300KHz
Above1GHz	RBW1MHz	VBW 3MHz

We have scanned the 10th harmonic from 9 kHz to the EUT.

Detailed information please see the following page.

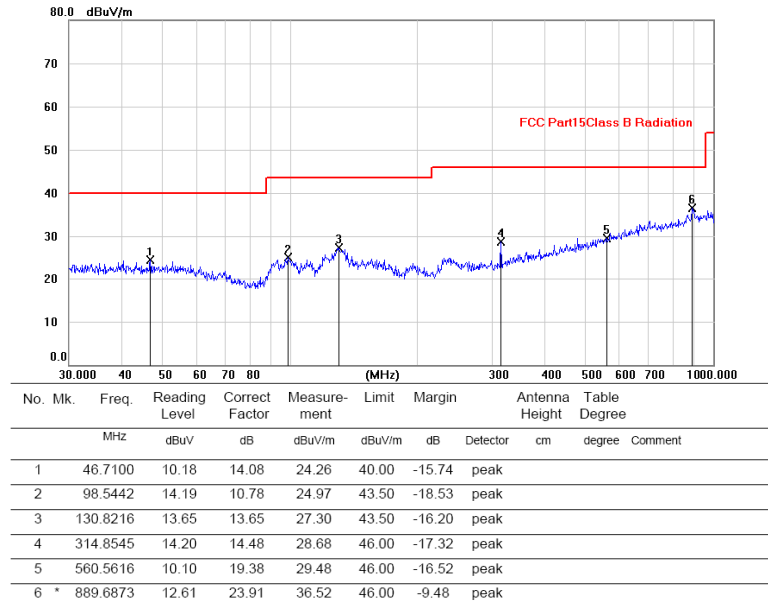
From 9KHz to 30MHz: Conclusion: PASS

Note: 1.The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

2.Only show the test data of the worst Channel in this report.

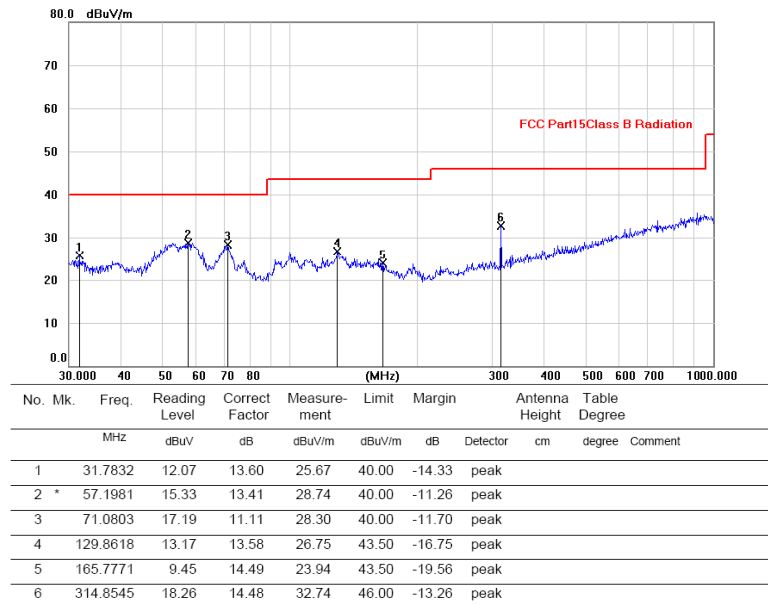
From 30MHz to 1000MHz: Conclusion: PASS

<b>EUT Description</b>	Geodetic GNSS Receiver	<b>Model No.</b>	i73+
<b>Temperature</b>	24°C	<b>Humidity</b>	56%
<b>Pol</b>	Vertical	<b>Test date</b>	2022.03.10
<b>Test Voltage</b>	DC 5V From USB Port	<b>Test mode</b>	GFSK (2440MHz)



**Pol**

**Horizontal**



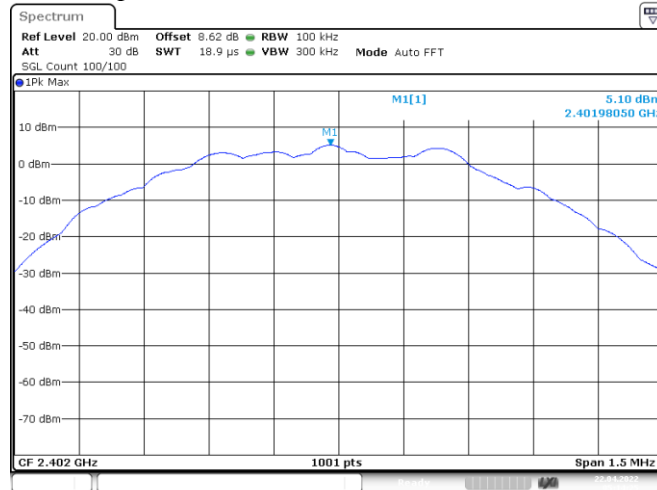
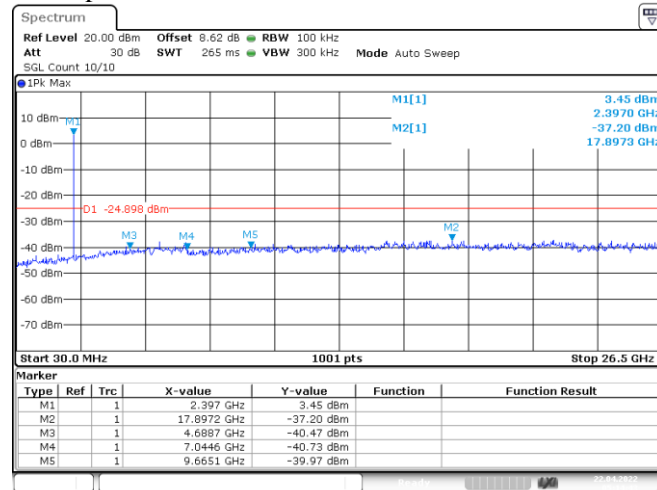
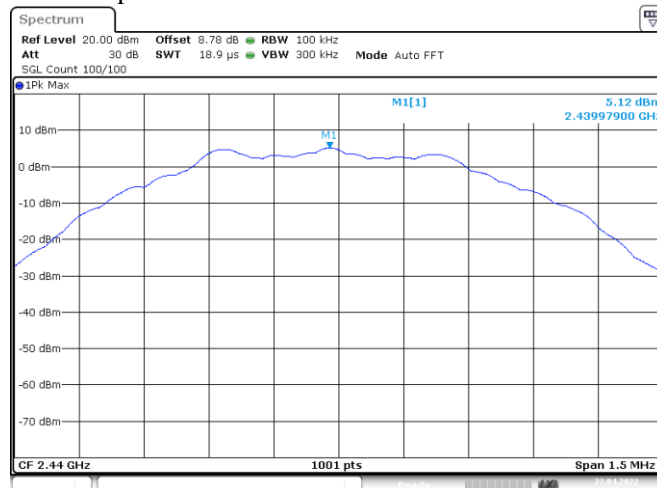
\*:Maximum data x:Over limit !:over margin

Note: Measurement=Reading Level+Correc Factor. Factor=(LISN or ISN or PLC or Current Probe)Factor+Cable

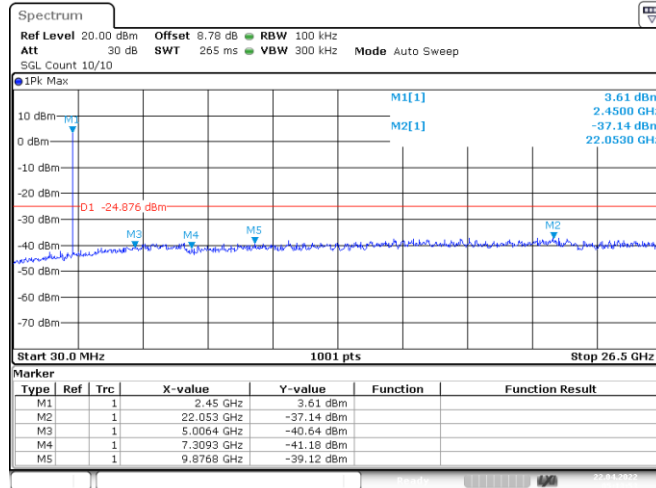
Remark: All modes have been tested, and only worst data of GFSK (2440MHz) was listed in this report.

Test Mode: TX Low									
Freq (MHz)	Read Level (dBuV/m)	Polar (H/V)	Antenna Factor (dB/m)	Cable loss(dB)	Amp Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4804	44.18	V	33.95	10.18	34.26	54.05	74	-19.95	PK
4804	35.63	V	33.95	10.18	34.26	45.50	54	-8.50	AV
7206	/	/	/	/	/	/	/	/	/
9608	/	/	/	/	/	/	/	/	/
4804	42.85	H	33.95	10.18	34.26	52.72	74	-21.28	PK
4804	34.80	H	33.95	10.18	34.26	44.67	54	-9.33	AV
7206	/	/	/	/	/	/	/	/	/
9608	/	/	/	/	/	/	/	/	/
Test Mode: TX Mid									
4880	45.80	V	33.93	10.2	34.29	55.64	74	-18.36	PK
4880	35.43	V	33.93	10.2	34.29	45.27	54	-8.73	AV
7320	/	/	/	/	/	/	/	/	/
9760	/	/	/	/	/	/	/	/	/
4880	44.75	H	33.93	10.2	34.29	54.59	74	-19.41	PK
4880	33.50	H	33.93	10.2	34.29	43.34	54	-10.66	AV
7320	/	/	/	/	/	/	/	/	/
9760	/	/	/	/	/	/	/	/	/
Test Mode: TX High									
4960	44.08	V	33.98	10.22	34.25	54.03	74	-19.97	PK
4960	35.09	V	33.98	10.22	34.25	45.04	54	-8.96	AV
7440	/	/	/	/	/	/	/	/	/
9920	/	/	/	/	/	/	/	/	/
4960	47.12	H	33.98	10.22	34.25	57.07	74	-16.93	PK
4960	36.33	H	33.98	10.22	34.25	46.28	54	-7.72	AV
7440	/	/	/	/	/	/	/	/	/
9920	/	/	/	/	/	/	/	/	/
Note: 1, Result = Read level + Antenna factor + cable loss-Amp factor 2, All the other emissions not reported were too low to read and deemed to comply with FCC limit.									

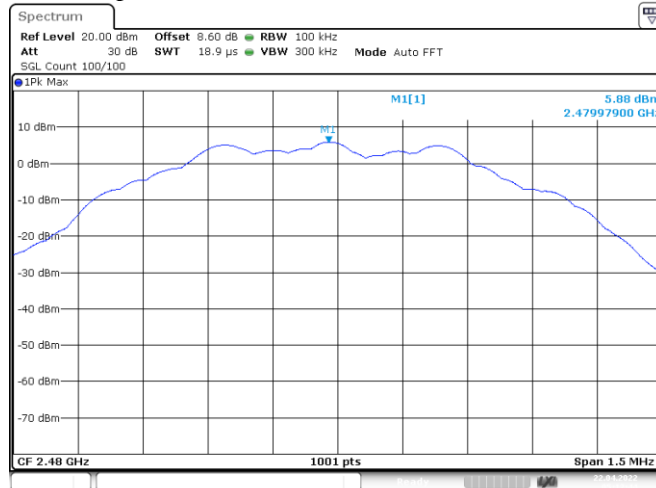


**Conducted RF Spurious Emission****Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Ref****Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Emission****Tx. Spurious NVNT BLE 1M 2440MHz Ant1 Ref**

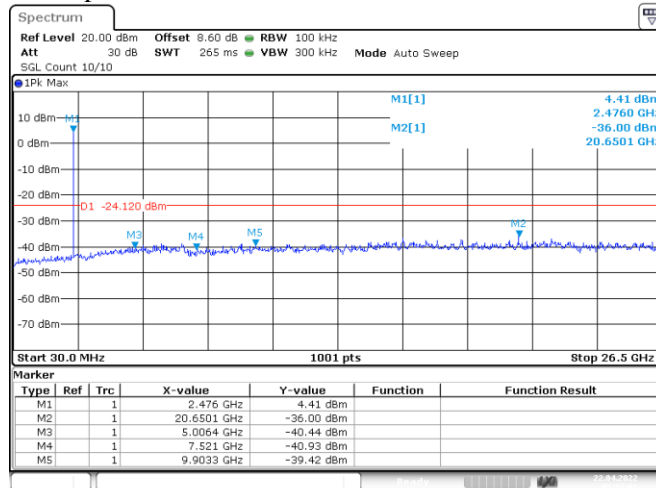
## Tx. Spurious NVNT BLE 1M 2440MHz Ant1 Emission



## Tx. Spurious NVNT BLE 1M 2480MHz Ant1 Ref



## Tx. Spurious NVNT BLE 1M 2480MHz Ant1 Emission



## 4. Power Line Conducted Emission

### 4.1. Test Limits

Frequency MHz	Limits dB( $\mu$ V)	
	Quasi-peak Level	Average Level
0.15 -0.50	66 -56*	56 - 46*
0.50 -5.00	56	46
5.00 -30.00	60	50

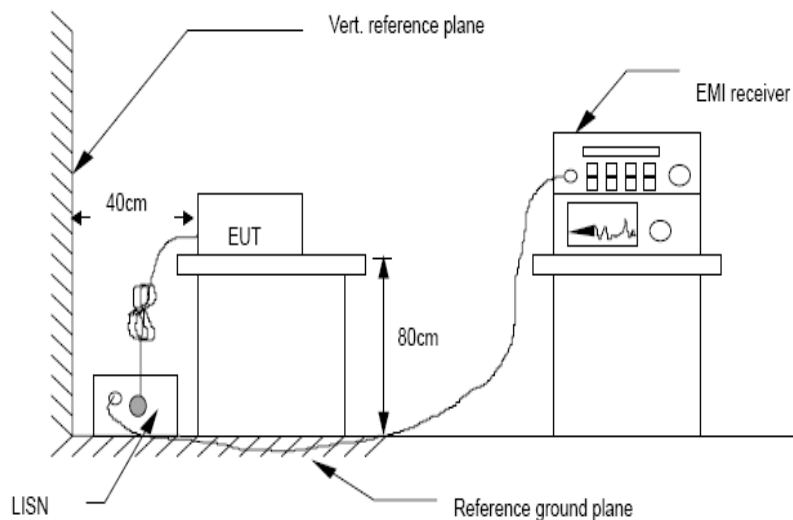
Notes: 1. \*Decreasing linearly with logarithm of frequency.  
 2. The lower limit shall apply at the transition frequencies.  
 3. The limit decreases in line with the logarithm of the frequency in range of 0.15 to 0.50 MHz.

### 4.2. Test Procedure

The EUT is put on the plane 0.8m high above the ground by insulating support and is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm coupling impedance for the EUT system. Please refer the block diagram of the test setup and photographs. Both sides of AC lines are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to ANSI C63.10:2013 on Conducted Emission Measurement.

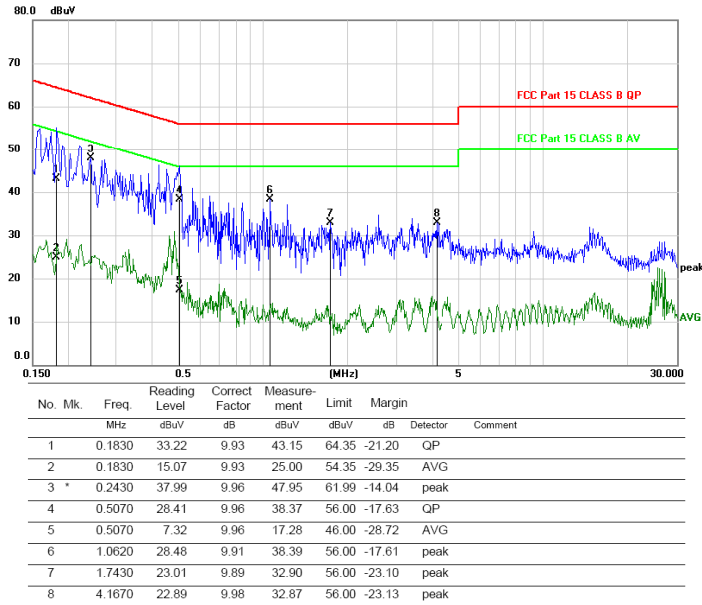
The bandwidth of test receiver is set at 9 kHz.

### 4.3. Test Setup

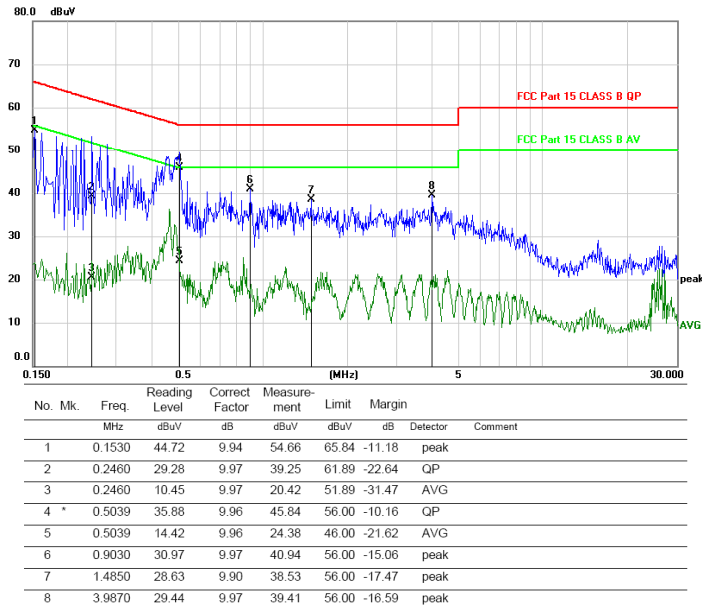


### 4.4. Test Results

<b>EUT Description</b>	Geodetic GNSS Receiver	<b>Model No.</b>	i73+
<b>Temperature</b>	24°C	<b>Humidity</b>	56%
<b>Pol</b>	Line	<b>Test date</b>	2022.03.10
<b>Test Voltage</b>	AC 120V/60Hz	<b>Test mode</b>	GFSK (2440MHz)



<b>Pol</b>	Neutral
------------	---------



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

Note: Measurement=Reading Level+Correc Factor. Factor=(LISN or ISN or PLC or Current Probe)Factor+Cable

Remark: All modes have been tested, and only worst data of GFSK (2440MHz) was listed in this report.

## 5. Conducted Maximum Output Power

### 5.1. Test limits

Please refer section 15.247.

### 5.2. Test Procedure

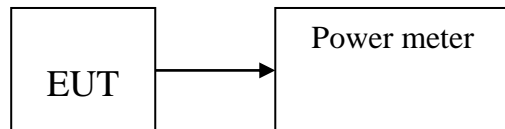
Details see the KDB558074 D01 Meas Guidance v05r02

5.2.1 Place the EUT on the table and set it in transmitting mode.

5.2.2 Measure out each mode and each bands average output power of EUT.

Note: The cable loss and attenuator loss were offset into measure device as amplitude offset.

### 5.3. Test Setup



### 5.4. Test Results

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE	2402	Total	4.996	30	Pass
NVNT	BLE	2440	Total	5.129	30	Pass
NVNT	BLE	2480	Total	6.171	30	Pass

## 6. Power Spectral Density

### 6.1. Test limits

6.1.1 Please refer section 15.247.

6.1.2 For direct sequence systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3kHz band during any time interval of continuous transmission.

6.1.3 The direct sequence operating of the hybrid system, with the frequency hopping operation turned off, shall comply with the power density requirements of paragraph (d) of this section.

### 6.2. Test Procedure

Details see the KDB558074 D01 Meas Guidance v05r02

6.2.1 Place the EUT on the table and set it in transmitting mode.

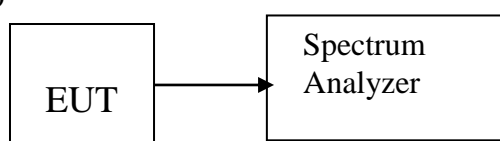
6.2.2 Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.

6.2.3 Detector = RMS. Set the spectrum analyzer as RBW = 3kHz(Set the RBW to: 3 kHz $\leq$ RBW $\leq$ 100 kHz.), VBW = 10kHz(Set the VBW $\geq$ 3 $\times$ RBW), span=1.5 $\times$ DTS bandwidth., detail see the test plot.

6.2.4 Record the max reading.

6.2.5 Repeat the above procedure until the measurements for all frequencies are completed.

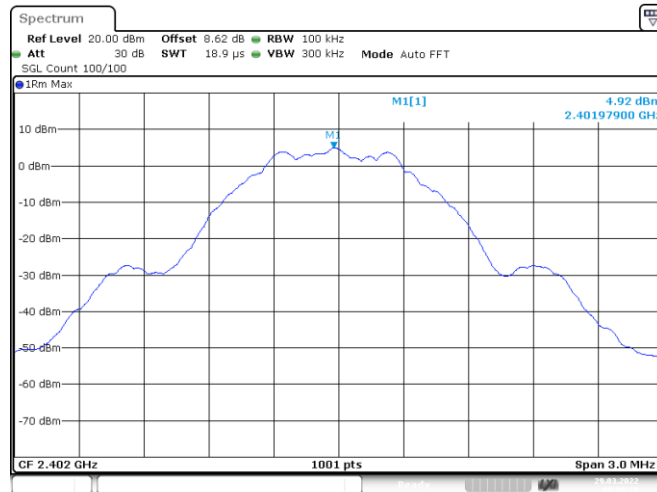
### 6.3. Test Setup



### 6.4. Test Results

Condition	Mode	Frequency (MHz)	Antenna	Max PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	BLE	2402	Total	4.917	8	Pass
NVNT	BLE	2440	Total	4.981	8	Pass
NVNT	BLE	2480	Total	6.158	8	Pass

## PSD NVNT BLE 1M 2402MHz Ant1



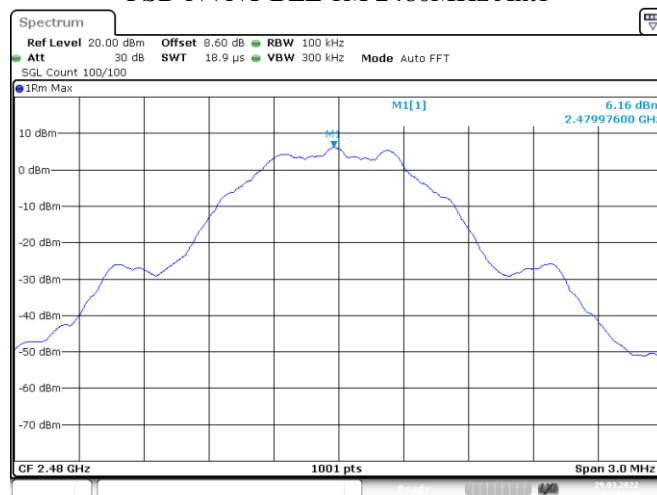
Date: 29.MAR.2022 09:08:28

## PSD NVNT BLE 1M 2440MHz Ant1



Date: 29.MAR.2022 09:07:11

## PSD NVNT BLE 1M 2480MHz Ant1



Date: 29.MAR.2022 07:19:25

## 7. Bandwidth

### 7.1. Test limits

Please refer section 15.247

For direct sequence systems, the minimum 6dB bandwidth shall be at least 500 kHz.

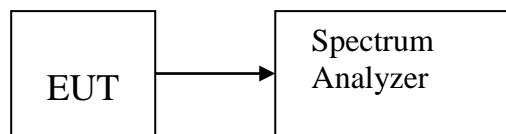
### 7.2. Test Procedure

Details see the KDB558074 D01 Meas Guidance v05r02

a) The bandwidth is measured at an amplitude level reduced 20dB from the reference level. The reference level is the level of the highest amplitude signal observed from the transmitter at the fundamental frequency. Once the reference level is established, the equipment is conditioned with typical modulating signal to produce the worst-case (i.e. the widest) bandwidth.

b) The test receiver set RBW = 100kHz, VBW  $\geq 3 \times$  RBW = 300kHz,, Sweep time set auto, detail see the test plot.

### 7.3. Test Setup

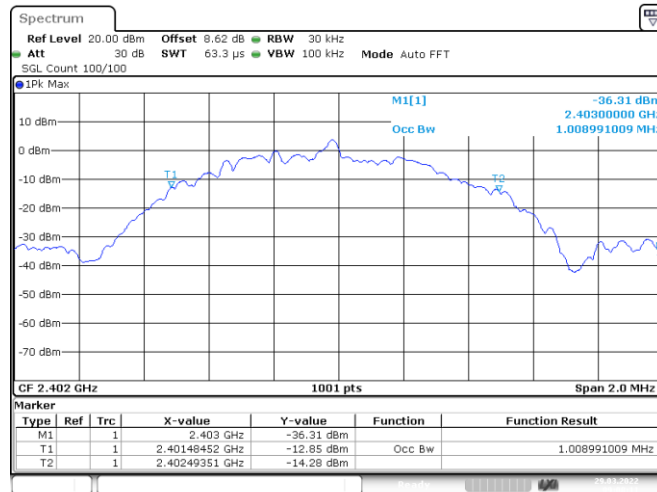


### 7.4. Test Results

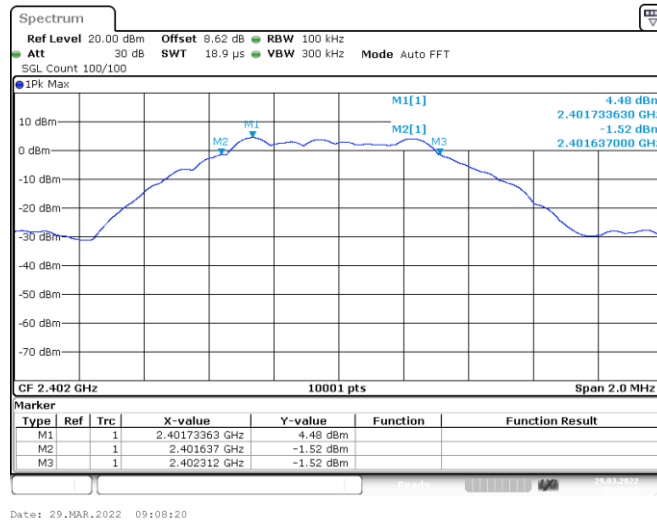
Condition	Mode	Frequency (MHz)	99% OBW (MHz)	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	BLE	2402	1.009	0.675	0.5	Pass
NVNT	BLE	2440	1.003	0.652	0.5	Pass
NVNT	BLE	2480	1.009	0.663	0.5	Pass



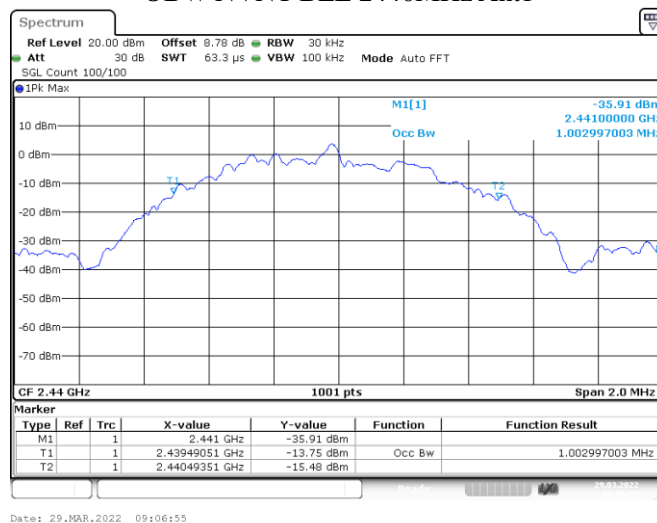
## OBW NVNT BLE 2402MHz Ant1

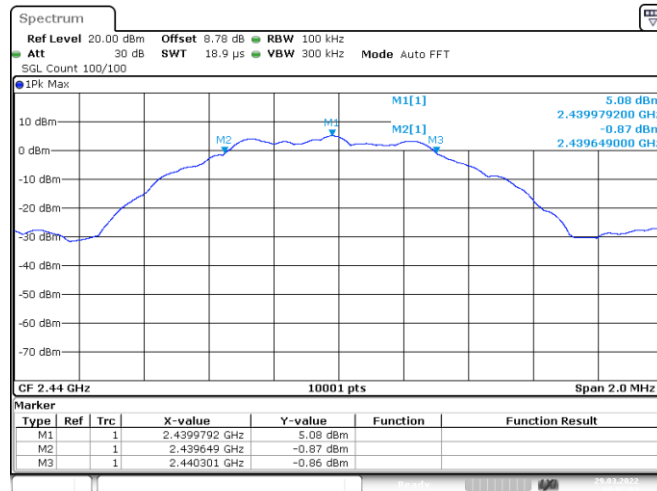


## -6 dB BW NVNT BLE 2402MHz Ant1

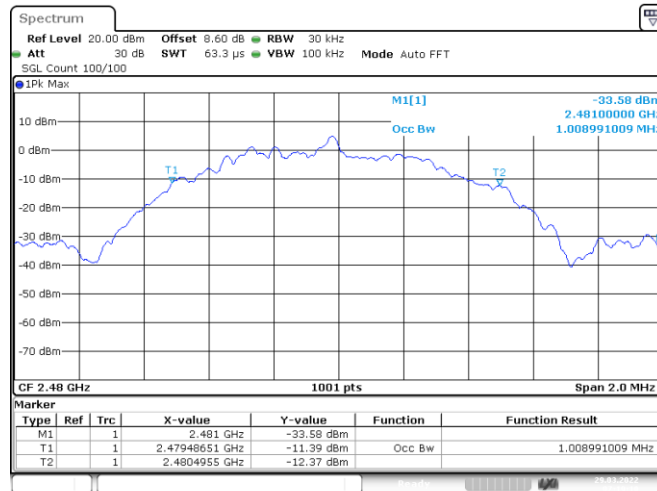


## OBW NVNT BLE 2440MHz Ant1

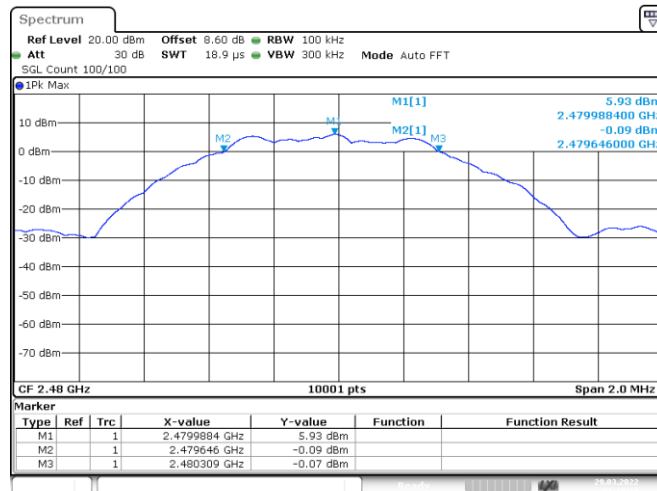


**-6 dB BW NVNT BLE 2440MHz Ant1**

Date: 29.MAR.2022 09:07:04

**OBW NVNT BLE 2480MHz Ant1**

Date: 29.MAR.2022 07:19:11

**-6 dB BW NVNT BLE 2480MHz Ant1**

Date: 29.MAR.2022 07:19:18

## **8. Band Edge Check**

### **8.1. Test limits**

Please refer section 15.247.

### **8.2. Test Procedure**

Details see the KDB558074 D01 Meas Guidance v05r02

8.2.1 Put the EUT on a 0.8m high table, power on the EUT. Emissions were scanned and measured rotating the EUT to 360 degrees, Find the maximum Emission

8.2.2 Check the spurious emissions out of band.

8.2.3 RBW 1MHz ,VBW 3MHz ,peak detector for peak value , RBW 1MHz ,VBW 10Hz, RMS detector for AV value.

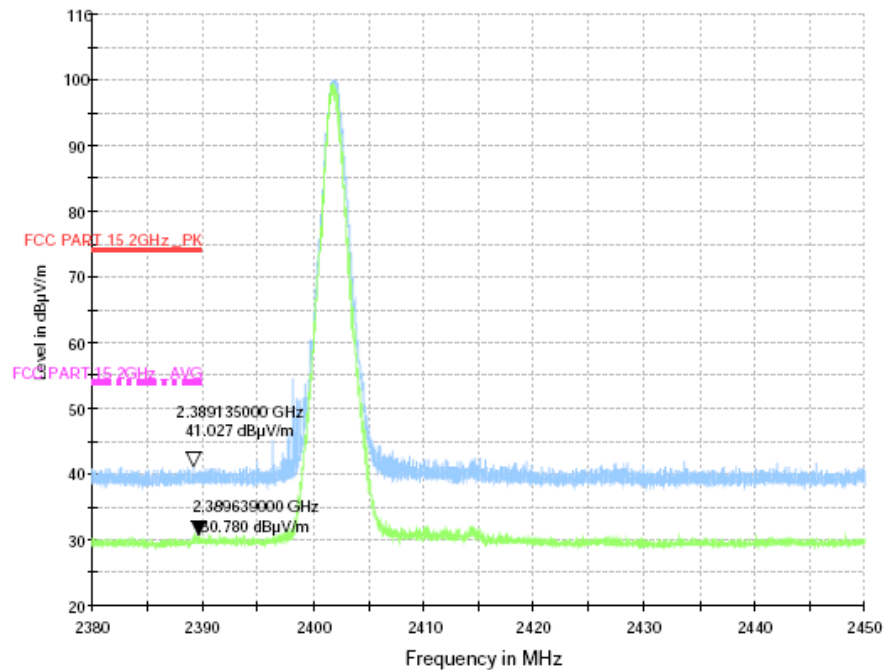
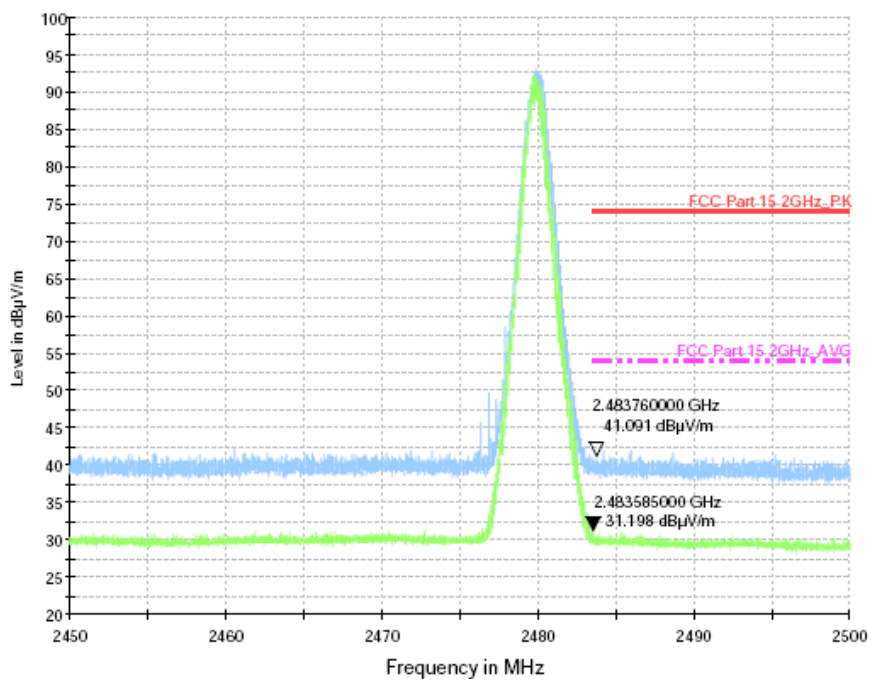
### **8.3. Test Setup**

Same as 3.3.

### **8.4. Test Results**

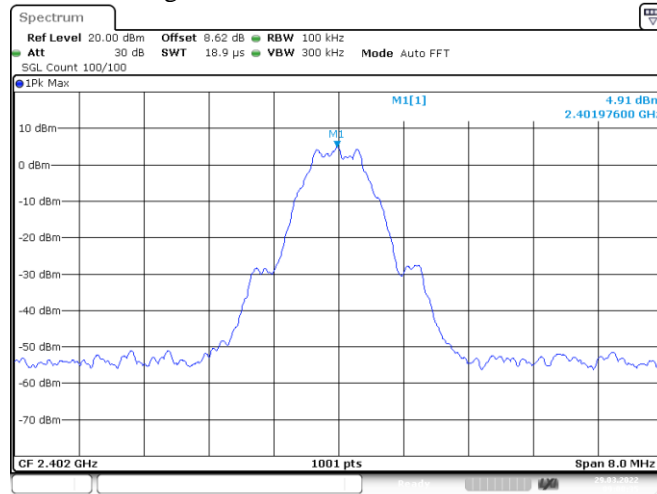
PASS.

Detailed information please see the following page.

**Radiated Method:***Test Mode: Low**Polarization: Vertical & Horizontal**Test Mode: High**Polarization: Vertical & Horizontal*

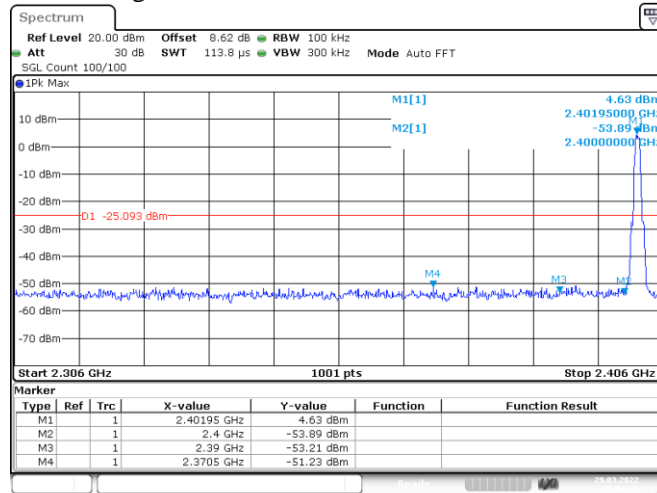
Conducted Method:

## Band Edge NVNT BLE 1M 2402MHz Ant1 Ref



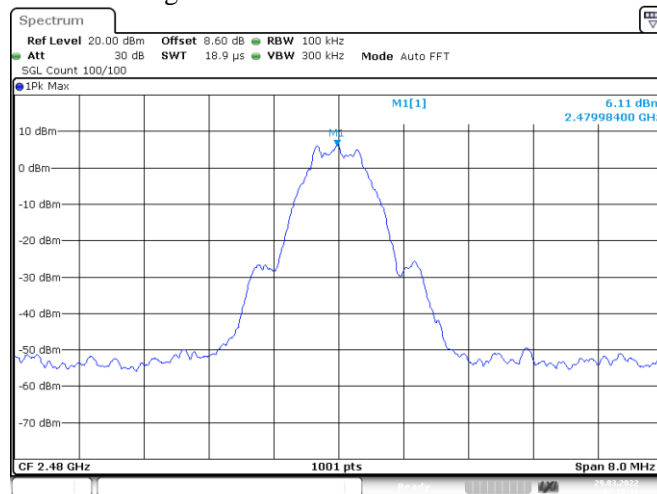
Date: 29.MAR.2022 09:08:35

## Band Edge NVNT BLE 1M 2402MHz Ant1 Emission



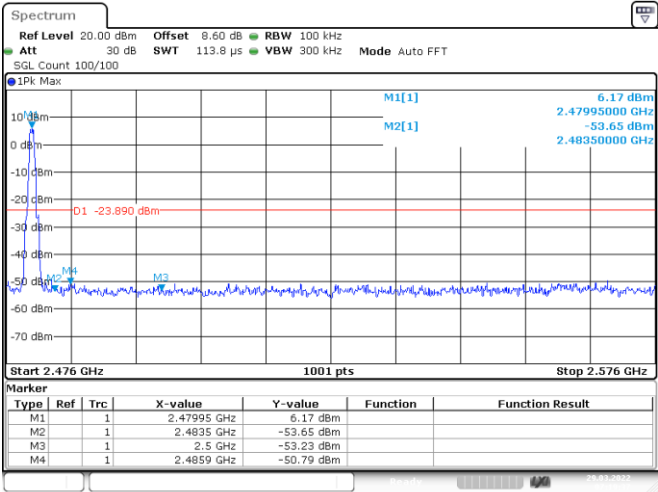
Date: 29.MAR.2022 09:08:41

## Band Edge NVNT BLE 1M 2480MHz Ant1 Ref



Date: 29.MAR.2022 07:19:31

Band Edge NVNT BLE 1M 2480MHz Ant1 Emission



Date: 29.MAR.2022 07:19:36

## **9. Antenna Requirement**

### **9.1. Standard Requirement**

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

### **9.2. Antenna Connected Construction**

The antenna is PCB antenna and no consideration of replacement. Please see EUT photo for details.

### **9.3. Results**

The EUT antenna is internal antenna. It complies with the standard requirement.

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