

Japan - TEST REPORT

Report Number : **68.950.21.0135.01** Date of Issue: **March 01, 2021**

Model : **AirEngine5761-12W**

Product Type : Wireless LAN Access Point

Applicant : Huawei Technologies Co., Ltd.

Address : Administration Building, Headquarters of Huawei Technologies
Co., Ltd., Bantian, Longgang District
518129 Shenzhen, PEOPLE'S REPUBLIC OF CHINA

Production Facility : Huawei Technologies Co., Ltd.

Address : Administration Building, Headquarters of Huawei Technologies
Co., Ltd., Bantian, Longgang District
518129 Shenzhen, PEOPLE'S REPUBLIC OF CHINA

Test Result : ☒ **Positive** ☐ **Negative**

Total pages including
Appendices : **37**

TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch is a subcontractor to TÜV SÜD Product Service GmbH according to the principles outlined in ISO 17025.

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1 General Information

1.1 Notes

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Prepared by
Project Engineer

2021-03-01
Date

Moon Xiong
Name


Signature



Approved by
Project Manager

2021-03-01
Date

John Zhi
Name


Signature

1.2 Testing Laboratory

Address of Test Laboratory:

Site 1 :

TÜV SÜD Certification and Testing (China) Co., Ltd. – Shenzhen Branch
Address: Building 12&13, Zhiheng Wisdomland Business Park,
Nantou Checkpoint Road 2, Nanshan District,
Shenzhen City, 518052,
P. R. China

Phone: +86-755-8828 6998

Fax: +86-755-8828 5299

1.3 Details of Applicant

Applicant: Huawei Technologies Co., Ltd.

Address: Administration Building, Headquarters of Huawei Technologies Co., Ltd., Bantian,
Longgang District, 518129 Shenzhen, PEOPLE'S REPUBLIC OF CHINA

Product Description: Wireless LAN Access Point

Manufacturers Model No.: AirEngine5761-12W

1.4 Application Details

Date of receipt of order: January 25,2021

Date of receipt of test item: January 25,2021

Date of test: January 25,2021– February 19,2021

1.5 Test Item

Refer to table 1

1.6 Applied Standard

APPLIED PRODUCT STANDARD

ARIB STD-T66 Version 3.7/2014-10

1.7 Test Summary

Table 1. Summary of results

Conformance requirement according to ARIB STD-T66 Version 3.7/2014-10		No.88 Annex 43 Article	Result
Essential parameter	Corresponding technical requirements		
Transmitter requirements	3.2 (2) Antenna Power	Article 14	PASS
	3.2 (3) Tolerances for Antenna Power	Article 14	PASS
	3.2 (4) Frequency Tolerance	Article 5, Table 1	PASS
	3.2 (5) Transmission Rate	Article 6, Table 2 & Article 49-20, Item1-h & 1-i	N/A*
	3.2 (7) Occupied Frequency Bandwidth	Article 6, Table 2 & Article 49-20, Item1-h & 1-i	PASS
	3.2 (8) Spread Bandwidth	Article 6, Table 2 & Article 49-20, Item1-h & 1-i	PASS
	3.2 (9) Process gain	Article 49-20(1);f(1)	N/A*
	3.2 (10) Number of Carriers	Article 49-20(1);g	N/A*
	3.2 (11) Dwell Time	Article 49-20(1);j	N/A*
	3.4 (1) Interference prevention function	Article 9-4, Item 9-C Article 6-2, Item 3 of the Regulation for Enforcement of the Radio Law	PASS
	3.2 (6) Spurious Emissions	Article 24	PASS
Receiver requirements	3.5 (1) Secondary Radiated Emissions	Article 24, Paragraph 2	PASS

NOTE 1: Measurement taken is within the measurement uncertainty of measurement system.

NOTE 2: “*” N/A is an abbreviation for Not Applicable.

2 Equipment Specification

2.1 General Description

AirEngine5761-12W is a Wireless LAN Access Point with Bluetooth LE, 2.4 GHz Wi-Fi, 5G Wi-Fi.

This report is for Bluetooth LE only.

2.2 Technical Data

Description	Wireless LAN Access Point
Model	AirEngine5761-12W
Radio Specification	IEEE 802.11a/b/g/ac/ax
Operation frequency	802.11b: 2412MHz-2472MHz 802.11g: 2412MHz-2472MHz 802.11n HT20, HT40: 2412MHz-2472MHz 802.11ax20, ax40: 2412MHz-2472MHz 802.11a 20MHz, 802.11n 20MHz, 802.11ac/ax 20MHz W52: 5180MHz - 5240MHz, W53: 5260MHz - 5320MHz, W56: 5500MHz - 5700MHz 802.11n 40MHz, 802.11ac/ax 40MHz W52: 5190MHz - 5230MHz, W53: 5270MHz - 5310MHz W56: 5510MHz - 5670MHz 802.11ac/ax 80MHz W52: 5210MHz, W53: 5290MHz, W56: 5530MHz-5610MHz
WIFI Antenna type	Built-in dual-band combined antenna
BT Antenna type	Built-in antenna
Antenna gain	BLE: 4dBi Wi-Fi 2.4G: 1dBi Beamforming gain: 1dBi Wi-Fi 5G: 1dBi Beamforming gain: 1dBi
Smart Antenna System	MIMO, MIMO+Beamforming
Channel rate supported	802.11b: 1, 2, 5.5, and 11 Mbps 802.11a/g: 6, 9, 12, 18, 24, 36, 48, and 54 Mps 802.11n: up to 300 Mbps 802.11ax up to 574Mbps for 2.4G Wi-Fi 802.11ac up to 866.6Mbps for 5G Wi-Fi 802.11ax up to 1.2Gbps for 5G Wi-Fi
Rated Input	DC 48V from external AC Adapter DC -48V from PoE power supply
Modulation	DBPSK/DQPSK/CCK(DSSS)BPSK/QPSK/16QAM/64QAM/ 256QAM(OFDM)/1024 QAM(OFDMA)/GFSK

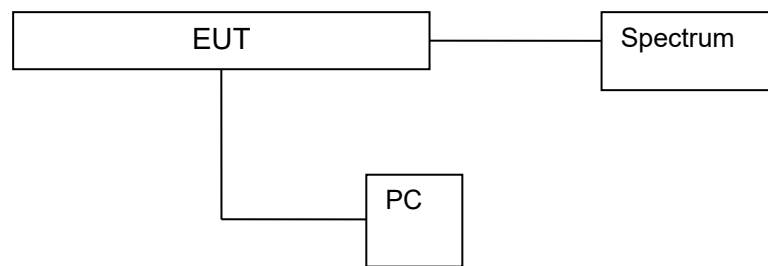
2.3 Test conditions and test Connections

2.3.1 Test Conditions

The EUT will be connected to test system in order to simulate normal operating conditions (with reference to the guidance given in the standard for this type of equipment).

The EUT is supplied by an external POE adapter, so $\pm 10\%$ of the rated voltage test is not required. All test items were performed at normal voltage.

2.3.2 Test Connections



Test Configuration

2.4 Auxiliary Equipment Used during Test

Table 3. Auxiliary Equipment Used during Test

Description	Manufacturer	Model no.	Serial no.	CAL. DUE DATE
PC	X240	LENOVO	---	---

2.5 Lists of Test Instruments

Table 4. Lists of Test Instruments

Description	Manufacturer	Model no.	Equipment ID	Serial no.	cal interval (year)	cal. due date
Signal Generator	Rohde & Schwarz	SMB100A	68-4-48-14-001	108272	1	2021-6-21
Vector Signal Generator	Rohde & Schwarz	SMBV100A	68-4-48-18-001	262825	1	2021-6-21
Communication Synthetical Test Instrument	Rohde & Schwarz	CMW 270	68-4-48-18-003	101251	1	2021-6-21
Signal Analyzer	Rohde & Schwarz	FSV40	68-4-74-14-004	101030	1	2021-6-21
Vector Signal Generator	Rohde & Schwarz	SMU 200A	68-4-48-14-003	105324	1	2021-6-22
RF Switch Module	Rohde & Schwarz	OSP120/OS P-B157	68-4-93-14-003	101226/100851	1	2021-6-21
Power Splitter	Weinschel	1580	68-4-85-14-001	SC319	1	2021-7-16
10dB Attenuator	Weinschel	4M-10	68-4-81-14-003	43152	1	2021-6-21
10dB Attenuator	R&S	DNF	68-4-81-14-004	DNF-001	1	2021-6-21
10dB Attenuator	R&S	DNF	68-4-81-14-005	DNF-002	1	2021-6-21
10dB Attenuator	R&S	DNF	68-4-81-14-006	DNF-003	1	2021-6-21
10dB Attenuator	R&S	DNF	68-4-81-14-007	DNF-004	1	2021-6-21
Test software	Rohde & Schwarz	EMC32	68-4-48-14-003-A10	Version 10.60.10	N/A	N/A
Test software	Tonscend	System for BT/WIFI	68-4-74-14-006-A13	Version 2.6.77.0518	N/A	N/A

2.6 Measurement Uncertainty (95% confidence levels, k=2)

Test Item	Uncertainty
Uncertainty for Conducted RF test	RF Power Conducted: 1.31dB Frequency test involved: 0.6×10^{-7} or 1%
Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.	

3 Measurements Result

3.1 Antenna Power & EIRP

3.1.1 Test condition

Channel:	Low: 2402MHz; Middle: 2440MHz; High: 2480MHz
Test position:	Transmitting
Ambient temperature:	23.1°C
Relative humidity:	56.3%
Atmosphere Pressure:	101.8KPa

3.1.2 Limit (ARIB STD-T66, Clause 3.2 (2)-b)

- a. The antenna power of a transmitting equipment (with a frequency band of 2,427 – 2,470.75 MHz, for spread spectrum systems using FH systems, hybrid systems of DS and FH, or hybrid systems of FH and OFDM) shall be such that the mean power within a bandwidth of 1 MHz is 3 mW or less in the case of modulation using a standard coding test signal with the same transmission rate as that of the modulation signal.
- b. The antenna power of a transmitting equipment using a spread spectrum system other than any of those in “a” and the OFDM system shall be such that the mean power within a bandwidth of 1 MHz is 10 mW or less in the case of modulation using a standard coding test signal with the same transmission rate as that of the modulation signal.

Modulation system	Frequency band used	Antenna power (max.)	EIRP (max.)	
			Omnidirectional case	Directional case
DS, OFDM	2,400 - 2,483.5 MHz	10 mW/MHz	12.14 dBm/MHz	22.14 dBm/MHz
FH, DS-FH FH-OFDM	2,400 - 2,483.5 MHz	3 mW/MHz	6.91 dBm/MHz	16.91 dBm/MHz
	Excluding 2,427 - 2,470.75 MHz	10 mW/MHz	12.14 dBm/MHz	22.14 dBm/MHz
Other than the above	2,400 - 2,483.5 MHz	10 mW	12.14 dBm	22.14 dBm

3.1.3 Test result

1Mbps:

Frequency (MHz)	Voltage (VDC)	Result Antenna power (mW)	Antenna power Limit (mW)	Result EIRP (dBm)	EIRP limit (dBm)
2402	48VDC	0.672	10	2.27	12.14
2440	48VDC	0.711	10	2.52	12.14
2480	48VDC	0.589	10	1.70	12.14

2Mbps:

Frequency (MHz)	Voltage (VDC)	Result Antenna power (mW)	Antenna power Limit (mW)	Result EIRP (dBm)	EIRP limit (dBm)
2402	48VDC	0.648	10	2.12	12.14
2440	48VDC	0.660	10	2.20	12.14
2480	48VDC	0.492	10	0.92	12.14

3.1.4 Result

The equipment met the requirement of this clause.

3.2 Tolerances for Antenna Power

3.2.1 Test condition

Channel:	Low: 2402MHz; Middle: 2440MHz; High: 2480MHz
Test position:	Transmitting
Ambient temperature:	23.1°C
Relative humidity:	56.3%
Atmosphere Pressure:	101.8KPa

3.2.2 Limit (ARIB STD-T66, Clause 3.2 (3))

Upper and lower limits of the tolerance for antenna power shall be 20% and 80%, respectively. Note that they represent the tolerance for the maximum rated antenna power and that no upper and lower limits of the tolerance are regulated in the case of antenna power reduction for communications reasons.

3.2.3 Test result

1Mbps:

Frequency (MHz)	Voltage (VDC)	Declared Output Power (mW)	Result (mW)	Tolerances	Limit (mW)
2402	48VDC	0.8	0.672	-16.00	+20%~-80%
2440	48VDC	0.8	0.711	-11.13	+20%~-80%
2480	48VDC	0.8	0.589	-26.38	+20%~-80%
Conclusion: PASS					

2Mbps:

Frequency (MHz)	Voltage (VDC)	Declared Output Power (mW)	Result (mW)	Tolerances	Limit (mW)
2402	48VDC	0.8	0.648	-19.00	+20%~-80%
2440	48VDC	0.8	0.660	-17.50	+20%~-80%
2480	48VDC	0.8	0.492	-38.50	+20%~-80%
Conclusion: PASS					

Note: Deviation = (Output power – Declared Output Power) / Declared Output Power * 100%

3.2.4 Result

The equipment met the requirement of this clause.

3.3 Frequency Tolerance

3.3.1 Test condition

Channel:	Low: 2402MHz; Middle: 2440MHz; High: 2480MHz
Test position:	Transmitting
Ambient temperature:	23.1°C
Relative humidity:	56.3%
Atmosphere Pressure:	101.8KPa

3.3.2 Limit (ARIB STD-T66, Clause 3.2 (4))

Tolerance of frequency: $\pm 50 \times 10^{-6}$.

3.3.3 Test Result

Test Frequency (MHz)	Voltage (VDC)	Result (KHz)	Tolerance (KHz)	Tolerance (ppm)	Limit (ppm)
2402	48VDC	2401985	-15	-6.245	± 50
2440	48VDC	2439981	-19	-7.787	± 50
2480	48VDC	2480983	-17	-6.855	± 50
Conclusion: PASS					

3.3.4 Result

The equipment met the requirement of this clause.

3.4 Occupied Frequency Bandwidth

3.4.1 Test condition

Channel:	Low: 2402MHz; Middle: 2440MHz; High: 2480MHz
Test position:	Transmitting
Ambient temperature:	23.1°C
Relative humidity:	56.3%
Atmosphere Pressure:	101.8KPa

3.4.2 Limit (ARIB STD-T66, Clause 3.2 (7))

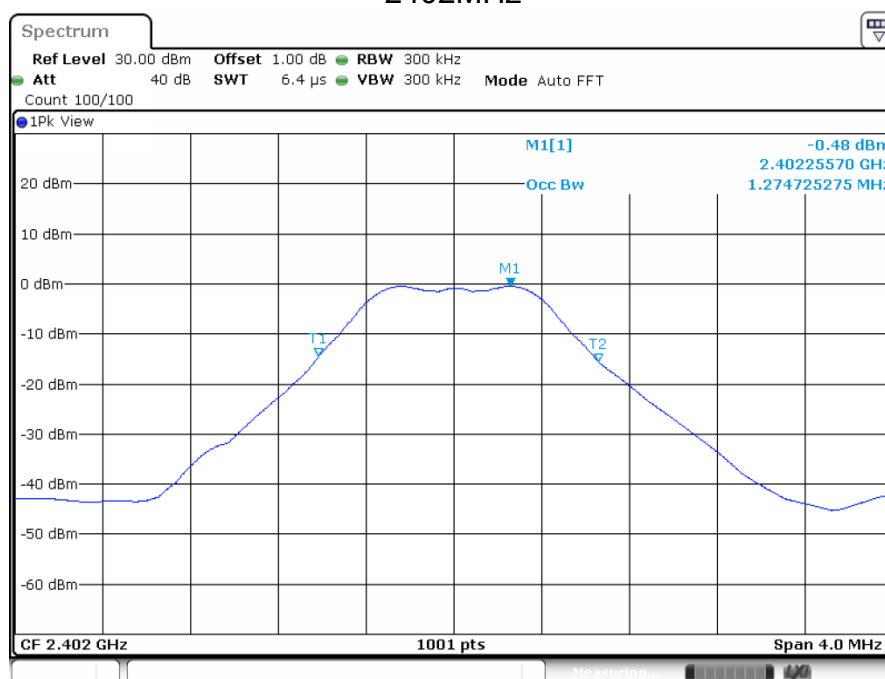
Permissible value for occupied bandwidth using the FH system, a hybrid system combining DS and FH systems, or a hybrid system combining FH and OFDM systems shall be 83.5 MHz or less, while necessary bandwidth (minimum occupied bandwidth sufficient to ensure information transmission of required quality at a required transmission rate for the system used under specified conditions for a given emission type) using a system other than any of the above shall be 26 MHz or less.

3.4.3 Test Result

1Mbps:

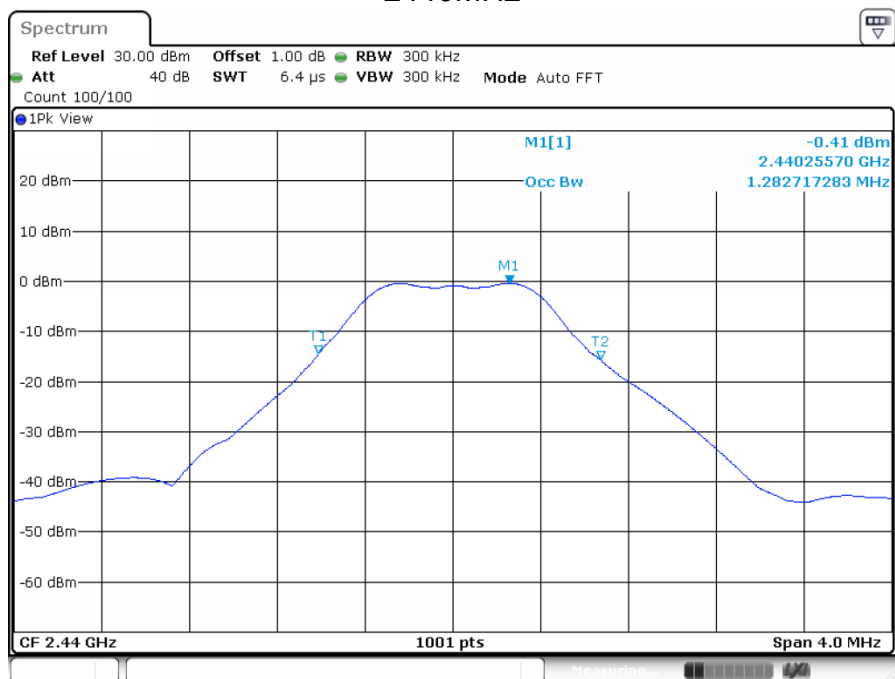
Test Frequency (MHz)	Voltage (VDC)	Result (MHz)	Limit (MHz)
2402	48VDC	1.275	<26MHz
2440	48VDC	1.283	<26MHz
2480	48VDC	1.279	<26MHz

2402MHz



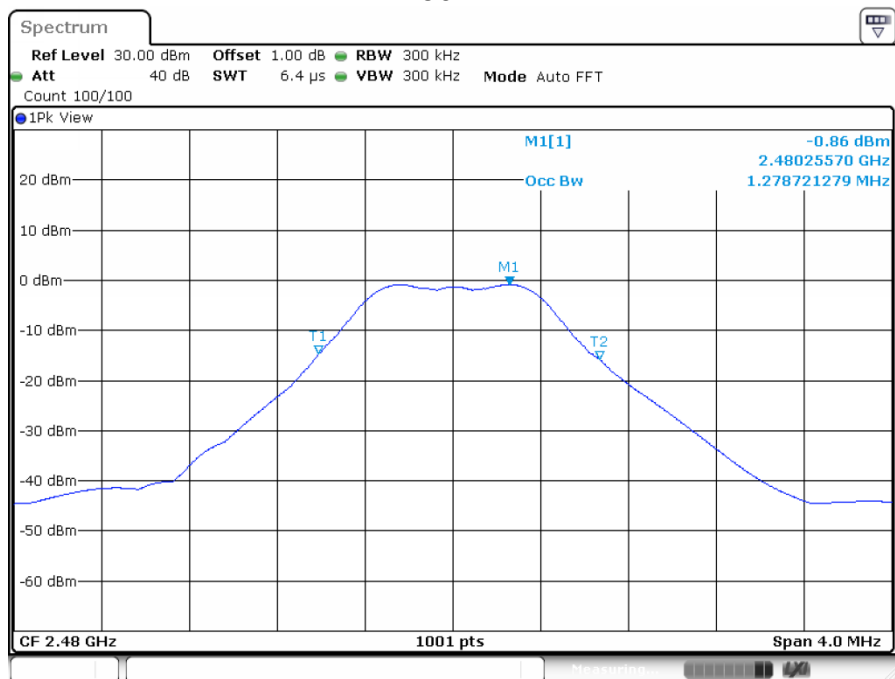
Date: 1.MAR.2021 11:09:52

2440MHz



Date: 1.MAR.2021 11:11:34

2480MHz

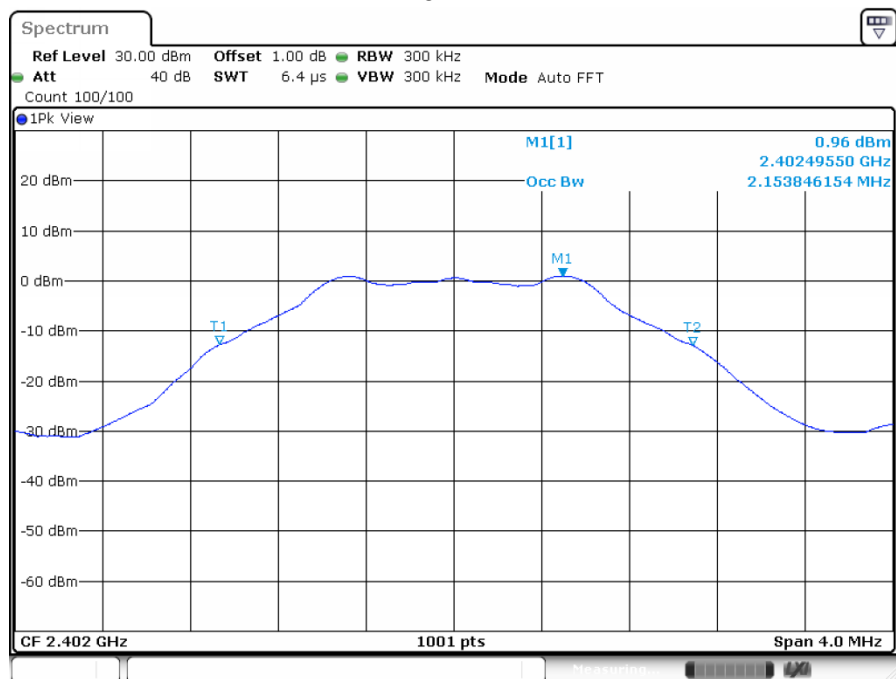


Date: 1.MAR.2021 11:13:47

2Mbps:

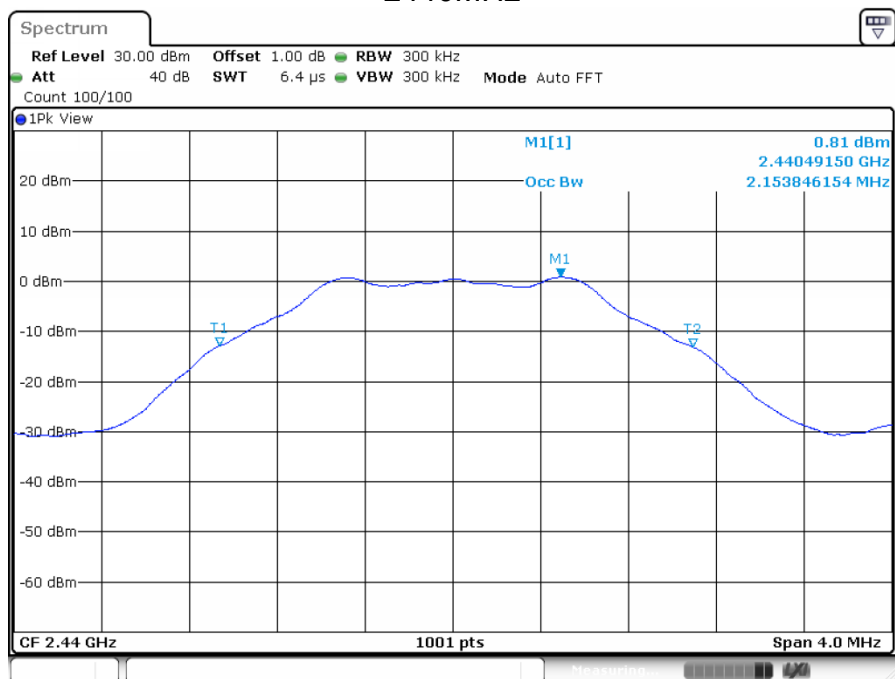
Test Frequency (MHz)	Voltage (VDC)	Result (MHz)	Limit (MHz)
2402	48VDC	2.154	<26MHz
2440	48VDC	2.154	<26MHz
2480	48VDC	2.154	<26MHz

2402MHz



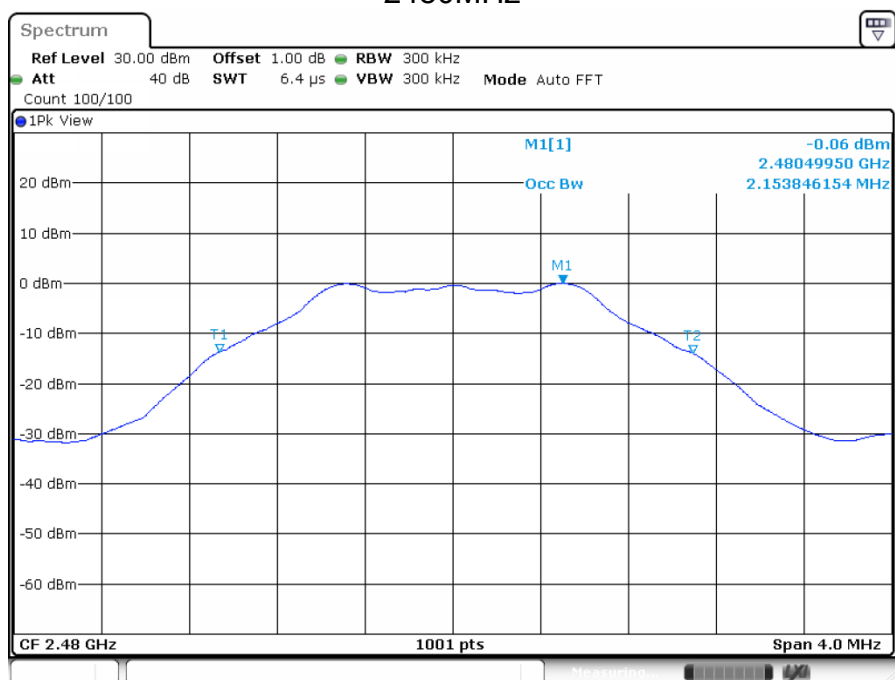
Date: 6.FEB.2021 20:05:28

2440MHz



Date: 6.FEB.2021 20:08:41

2480MHz



Date: 6.FEB.2021 20:11:29

3.4.4 Result

The equipment met the requirement of this clause.

3.5 Spread Bandwidth

3.5.1 Test condition

Channel:	Low: 2402MHz; Middle: 2440MHz; High: 2480MHz
Test position:	Transmitting
Ambient temperature:	23.1°C
Relative humidity:	56.3%
Atmosphere Pressure:	101.8KPa

3.5.2 Limit (ARIB STD-T66, Clause 3.2 (8))

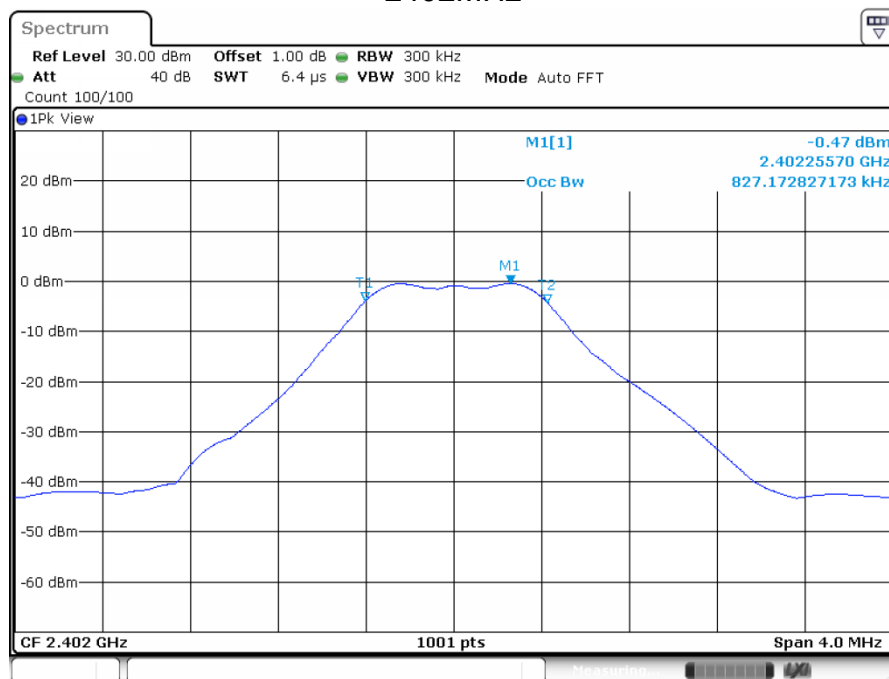
In spread spectrum systems, spread bandwidth (which refers to a frequency bandwidth with an upper limit and lower limit such that each of the mean powers radiated above the upper frequency limit and below the lower frequency limit is equal to 5 % of the total mean power radiated; this also applies hereafter) shall be 500 kHz or more

3.5.3 Test Result

1Mbps:

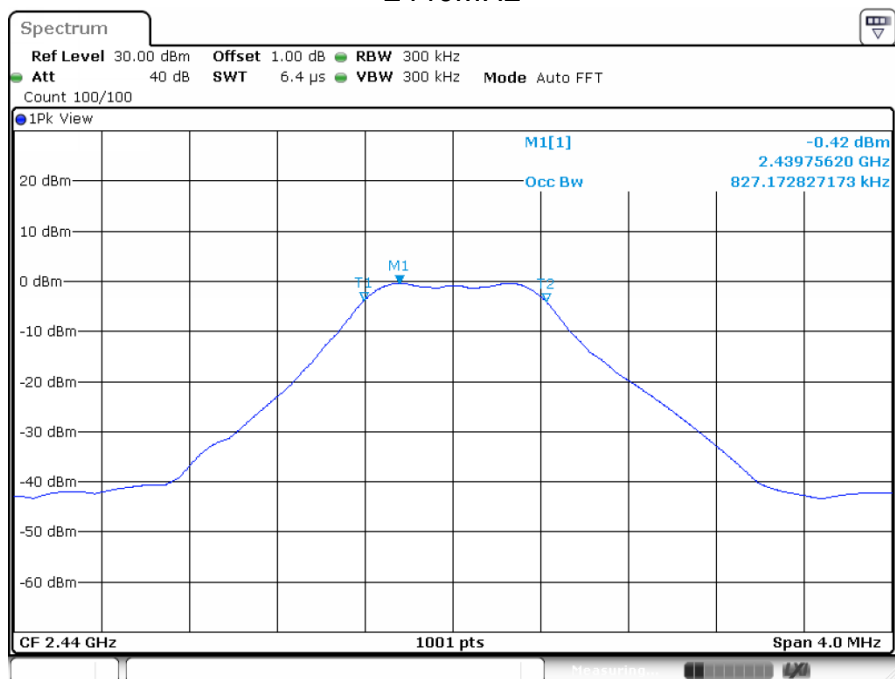
Test Frequency (MHz)	Voltage (VDC)	Result (kHz)	Limit (kHz)
2402	48VDC	827	>500
2440	48VDC	827	>500
2480	48VDC	827	>500

2402MHz



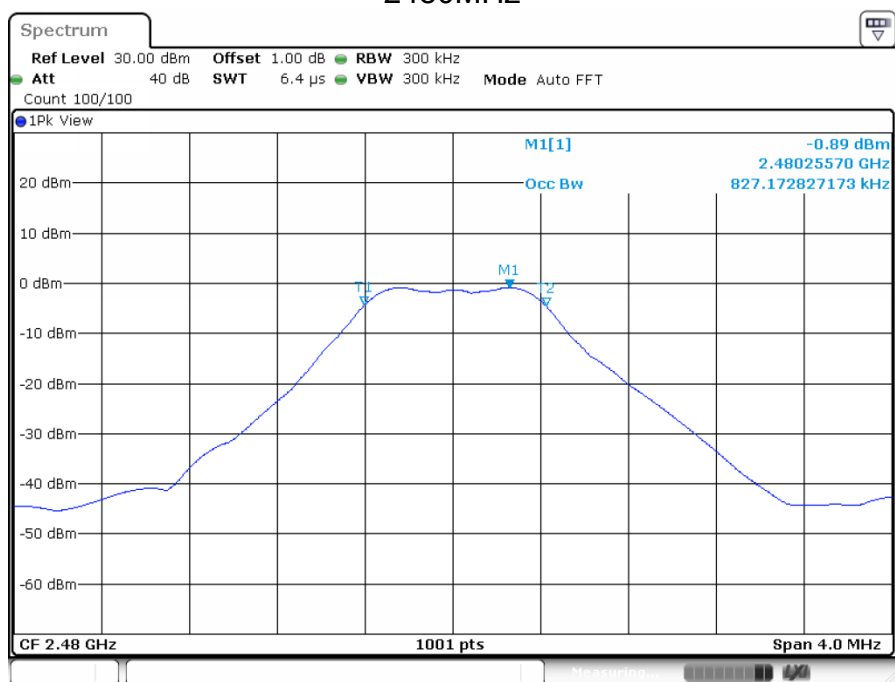
Date: 1.MAR.2021 11:10:04

2440MHz



Date: 1.MAR.2021 11:11:45

2480MHz

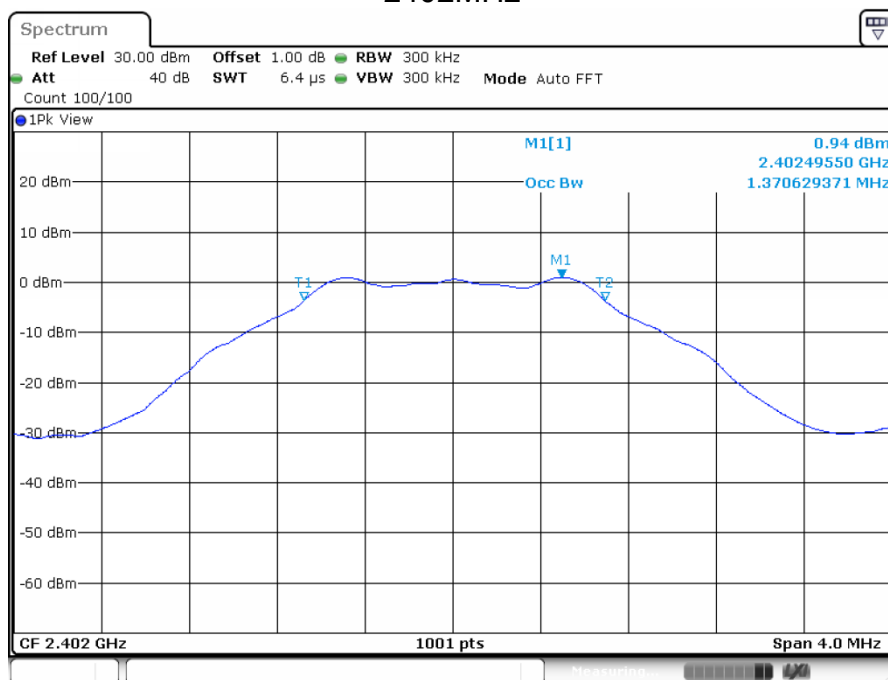


Date: 1.MAR.2021 11:13:58

2Mbps:

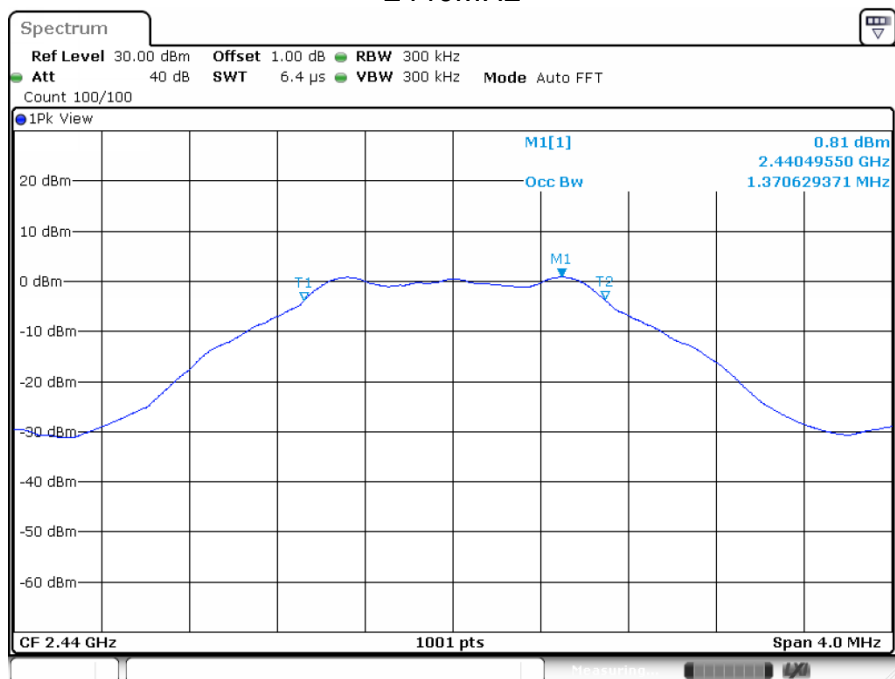
Test Frequency (MHz)	Voltage (VDC)	Result (kHz)	Limit (kHz)
2402	48VDC	1371	>500
2440	48VDC	1371	>500
2480	48VDC	1367	>500

2402MHz



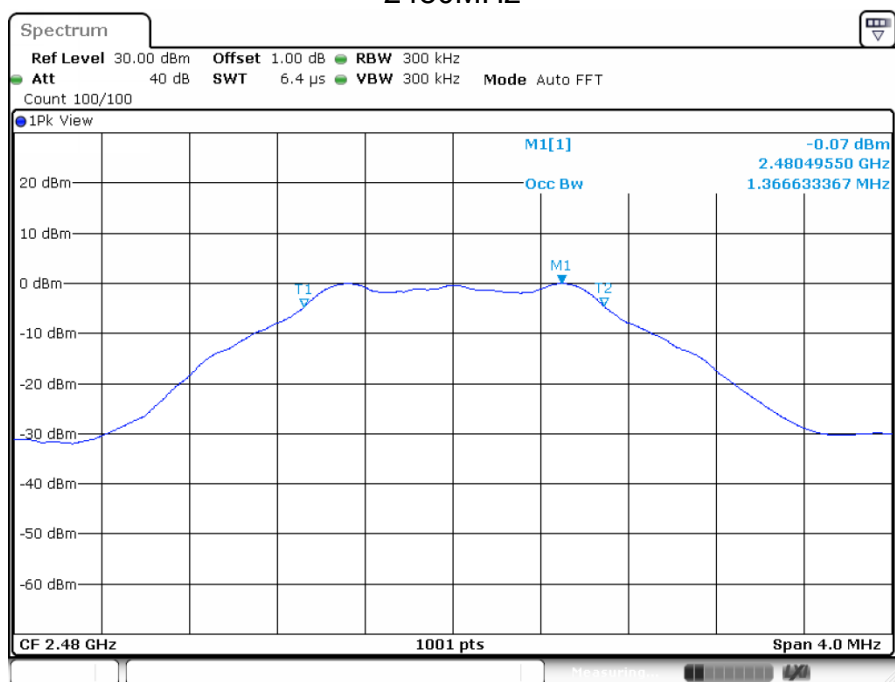
Date: 6.FEB.2021 20:05:40

2440MHz



Date: 6.FEB.2021 20:08:52

2480MHz



Date: 6.FEB.2021 20:11:41

3.5.4 Result

The equipment met the requirement of this clause

3.6 Transmitter Spurious Emissions (Conducted) (For transmitter)

3.6.1 Test condition

Channel:	Low: 2402MHz; Middle: 2440MHz; High: 2480MHz
Test position:	Transmitting
Ambient temperature:	23.1°C
Relative humidity:	56.3%
Atmosphere Pressure:	101.8KPa

3.6.2 Limit (ARIB STD-T66, Clause 3.2 (6))

Permissible mean power of spurious emission of each frequency supplied to a feeder, that is, mean power of spurious emission in the 1 MHz bandwidth at frequency f other than frequency band used shall be as follows: a. $2,387\text{MHz} \leq f \leq 2,400\text{MHz}$ and $2,483.5\text{MHz} < f \leq 2,496.5\text{MHz}$ 25 μW or less b. $2,387\text{MHz} > f$ and $2,496.5\text{MHz} < f$ 2.5 μW or less

3.6.3 Test Result

1Mbps:

TestCondition	TestMode	Channel	Freq.Range(MHz)	Result(dBm)	Limit(dBm)	Verdict
NTNV	BLE_BT	2402	30~2387	-55.82	≤ -26	PASS
		2402	2387~2400	-37.4	≤ -16	PASS
		2402	2483.5~2496.5	-62.41	≤ -16	PASS
		2402	2496.5~13000	-49.13	≤ -26	PASS
		2440	30~2387	-64.58	≤ -26	PASS
		2440	2387~2400	-60.11	≤ -16	PASS
		2440	2483.5~2496.5	-59.58	≤ -16	PASS
		2440	2496.5~13000	-47.41	≤ -26	PASS
		2480	30~2387	-64.24	≤ -26	PASS
		2480	2387~2400	-62.62	≤ -16	PASS
		2480	2483.5~2496.5	-41.54	≤ -16	PASS
		2480	2496.5~13000	-47.05	≤ -26	PASS

2Mbps:

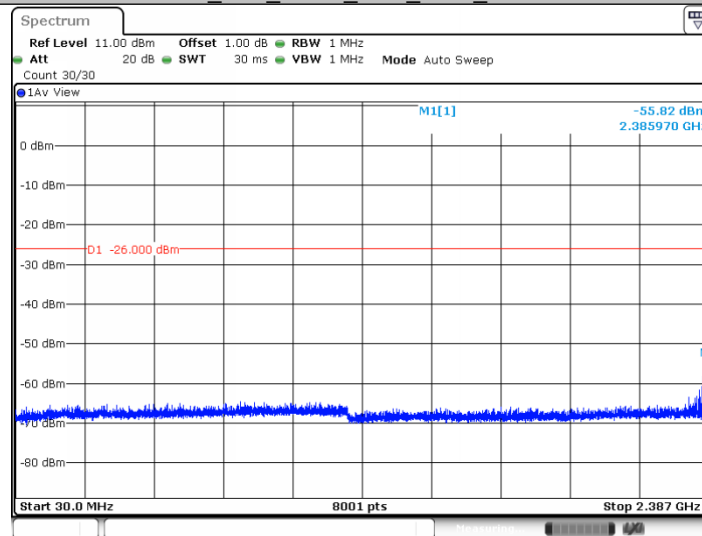
TestCondition	TestMode	Channel	Freq.Range(MHz)	Result(dBm)	Limit(dBm)	Verdict
NTNV	BLE_BT	2402	30~2387	-54.08	<=-26	PASS
		2402	2387~2400	-24.23	<=-16	PASS
		2402	2483.5~2496.5	-61.62	<=-16	PASS
		2402	2496.5~13000	-57.72	<=-26	PASS
		2440	30~2387	-61.79	<=-26	PASS
		2440	2387~2400	-57.04	<=-16	PASS
		2440	2483.5~2496.5	-57.98	<=-16	PASS
		2440	2496.5~13000	-42.81	<=-26	PASS
		2480	30~2387	-62.63	<=-26	PASS
		2480	2387~2400	-61.36	<=-16	PASS
		2480	2483.5~2496.5	-39.43	<=-16	PASS
		2480	2496.5~13000	-47.4	<=-26	PASS

3.6.4 Result

The equipment met the requirement of this clause.

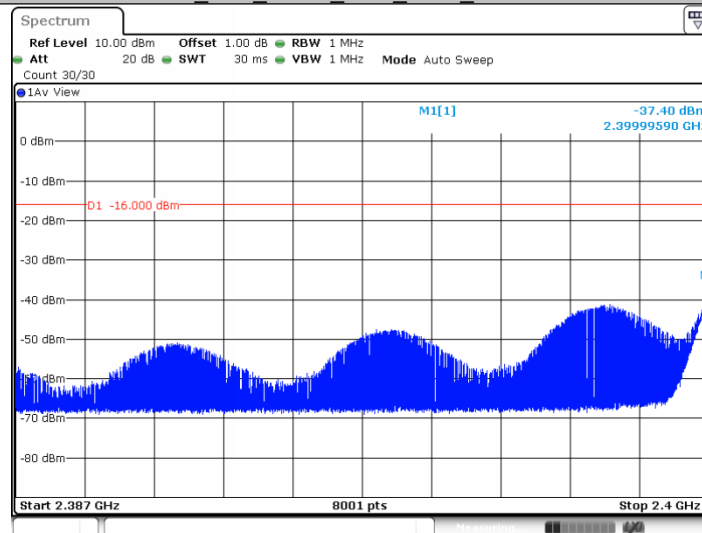
1Mbps:

NTNV_BLE_BT5.0_Ant1_2402_30~2387



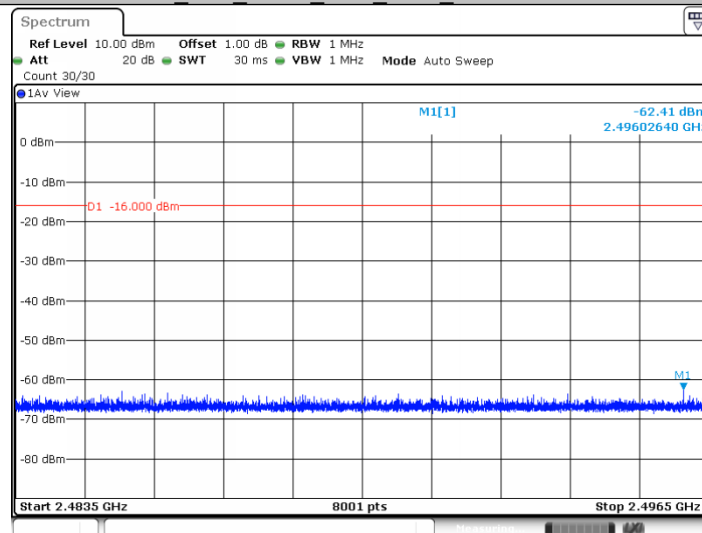
Date: 1.MAR.2021 11:10:15

NTNV_BLE_BT5.0_Ant1_2402_2387~2400



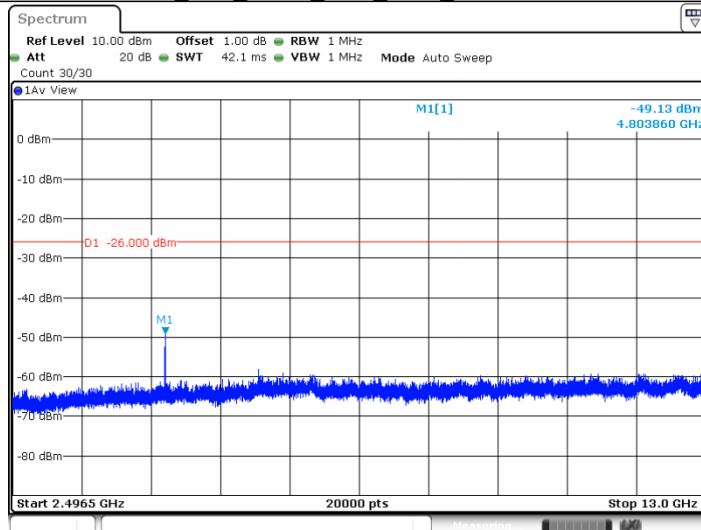
Date: 1.MAR.2021 11:10:25

NTNV_BLE_BT5.0_Ant1_2402_2483.5~2496.5



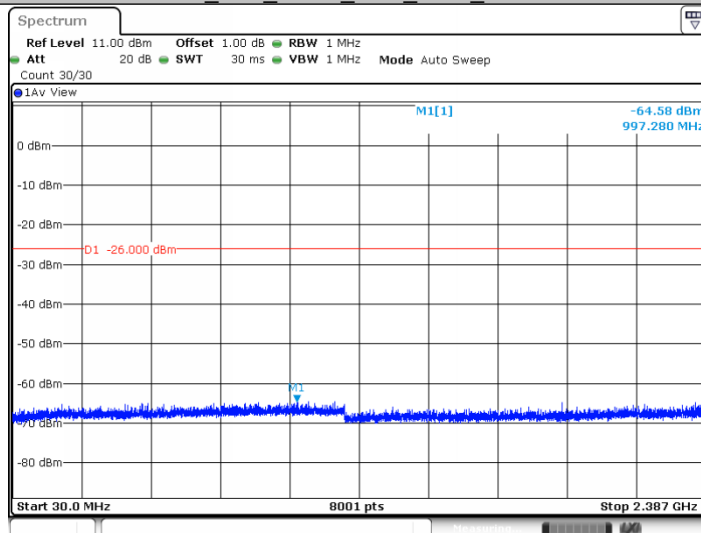
Date: 1.MAR.2021 11:10:36

NTNV_BLE_BT5.0_Ant1_2402_2496.5~13000



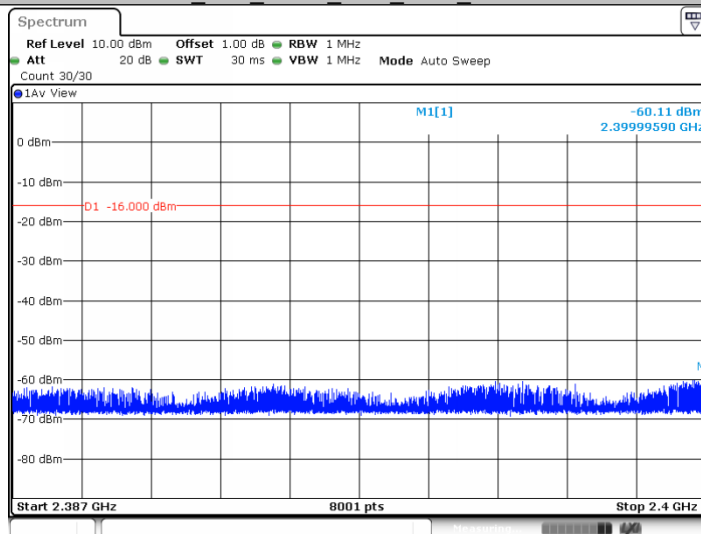
Date: 1.MAR.2021 11:10:46

NTNV_BLE_BT5.0_Ant1_2440_30~2387



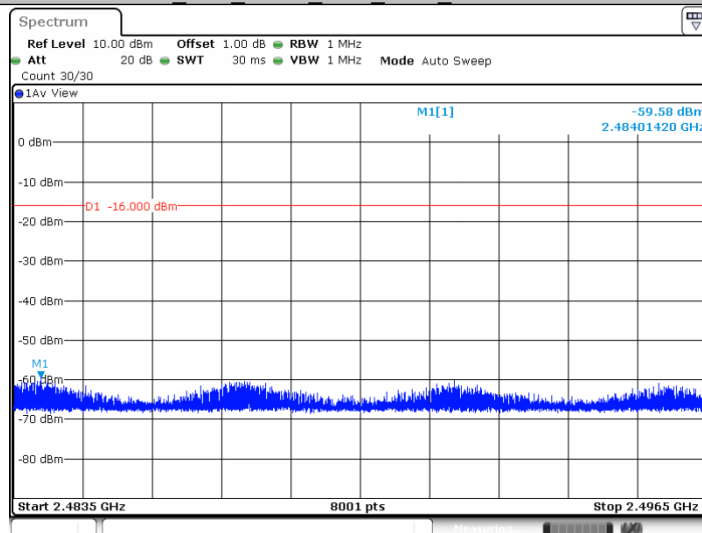
Date: 1.MAR.2021 11:11:56

NTNV_BLE_BT5.0_Ant1_2440_2387~2400



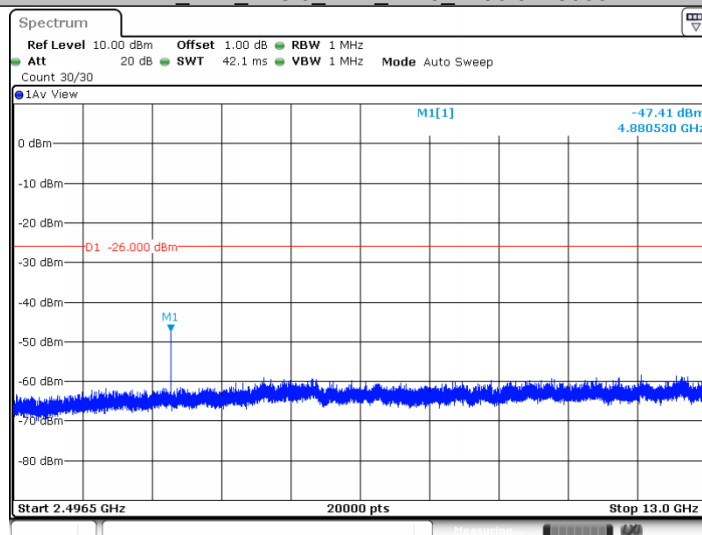
Date: 1.MAR.2021 11:12:05

NTNV_BLE_BT5.0_Ant1_2440_2483.5~2496.5



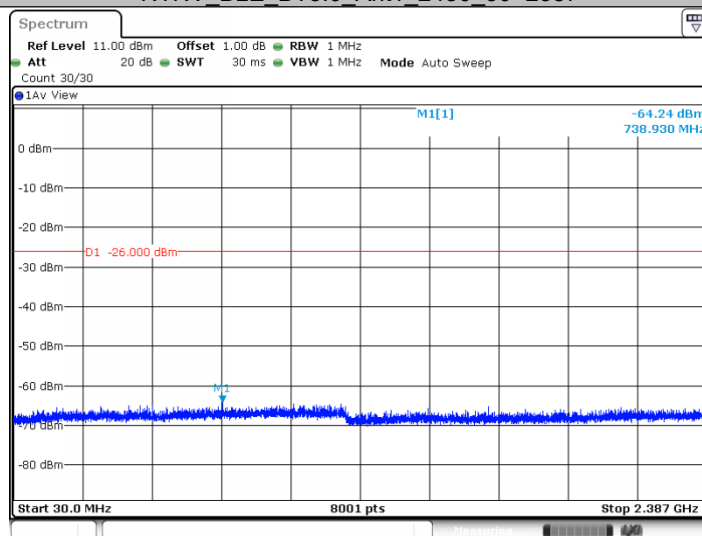
Date: 1.MAR.2021 11:12:17

NTNV_BLE_BT5.0_Ant1_2440_2496.5~13000



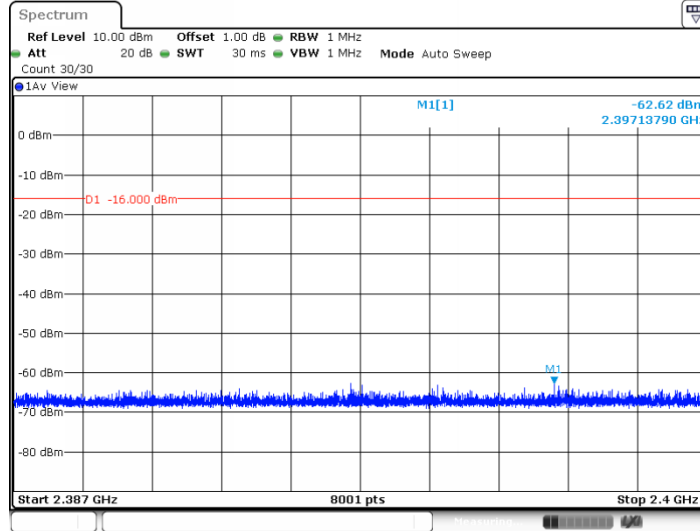
Date: 1.MAR.2021 11:12:27

NTNV_BLE_BT5.0_Ant1_2480_30~2387



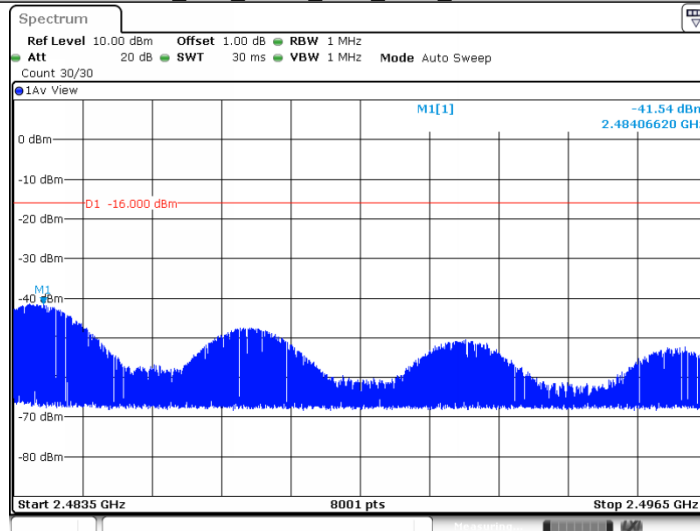
Date: 1.MAR.2021 11:14:09

NTNV_BLE_BT5.0_Ant1_2480_2387~2400



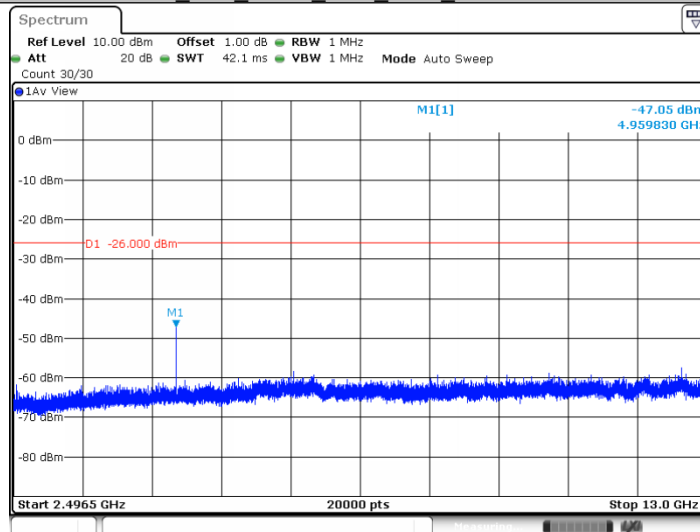
Date: 1.MAR.2021 11:14:19

NTNV_BLE_BT5.0_Ant1_2480_2483.5~2496.5



Date: 1.MAR.2021 11:14:30

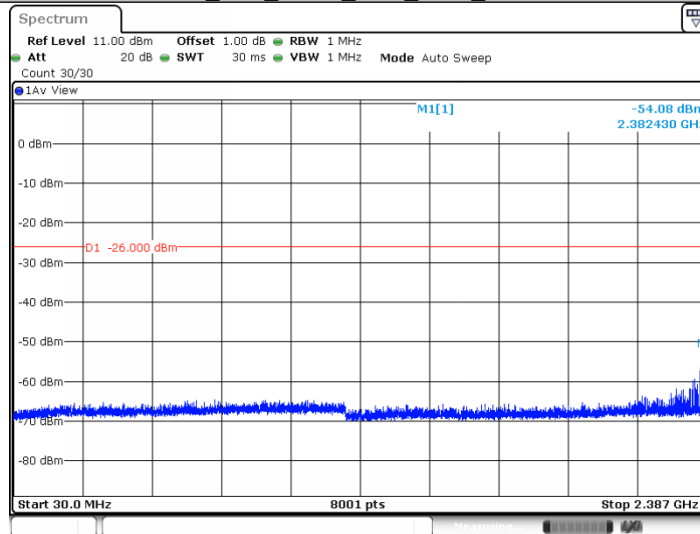
NTNV_BLE_BT5.0_Ant1_2480_2496.5~13000



Date: 1.MAR.2021 11:14:40

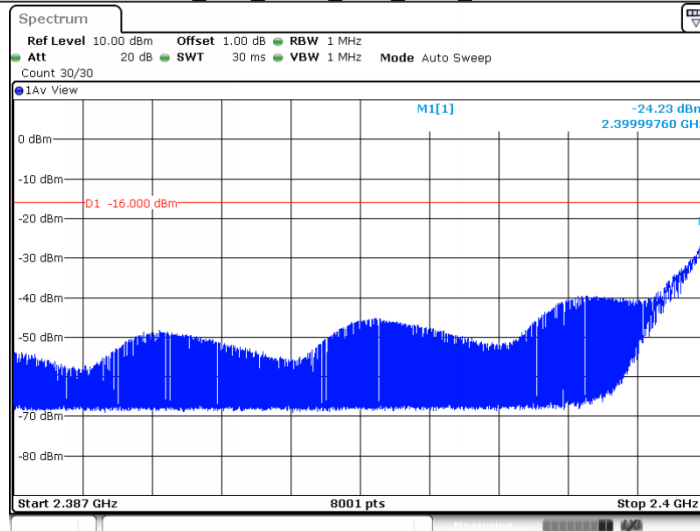
2Mbps:

NTNV_BLE_BT5.0_Ant1_2402_30~2387



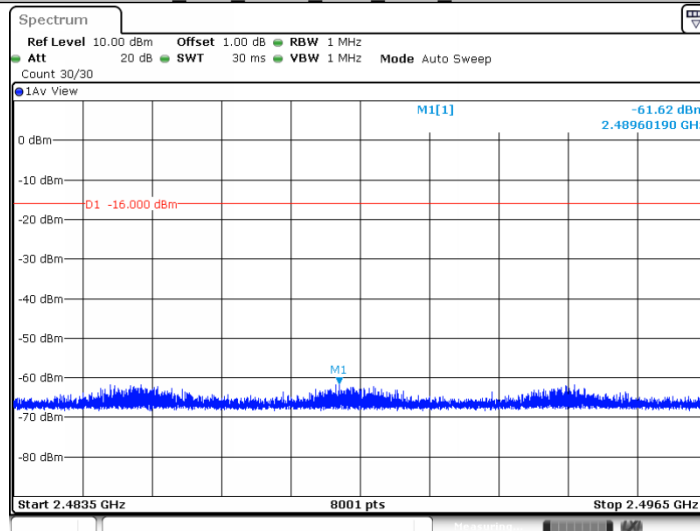
Date: 6.FEB.2021 20:05:51

NTNV_BLE_BT5.0_Ant1_2402_2387~2400



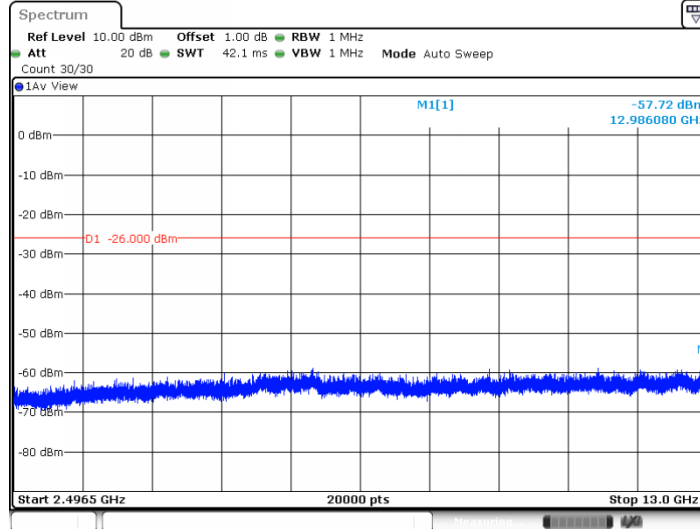
Date: 6.FEB.2021 20:06:00

NTNV_BLE_BT5.0_Ant1_2402_2483.5~2496.5



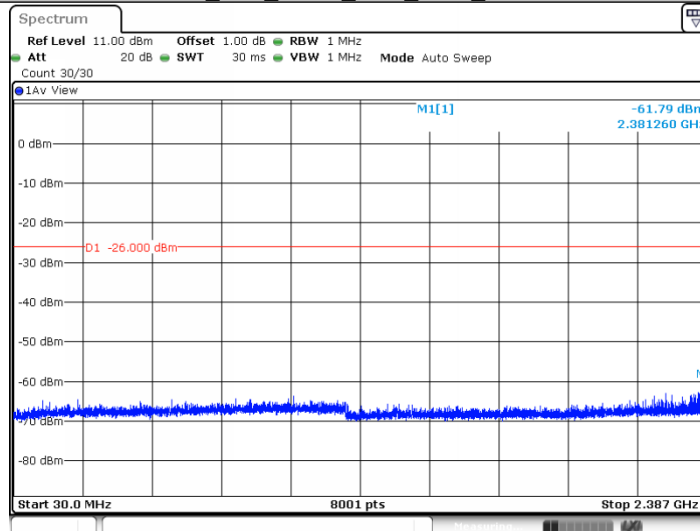
Date: 6.FEB.2021 20:06:12

NTNV_BLE_BT5.0_Ant1_2402_2496.5~13000



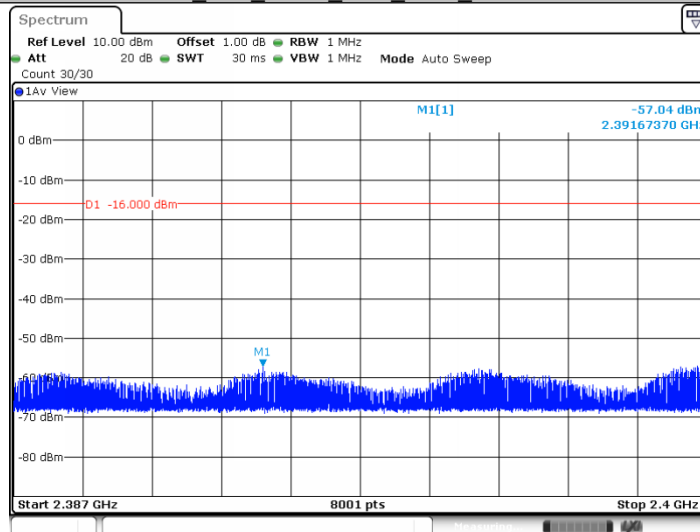
Date: 6 FEB 2021 20:06:22

NTNV_BLE_BT5.0_Ant1_2440_30~2387



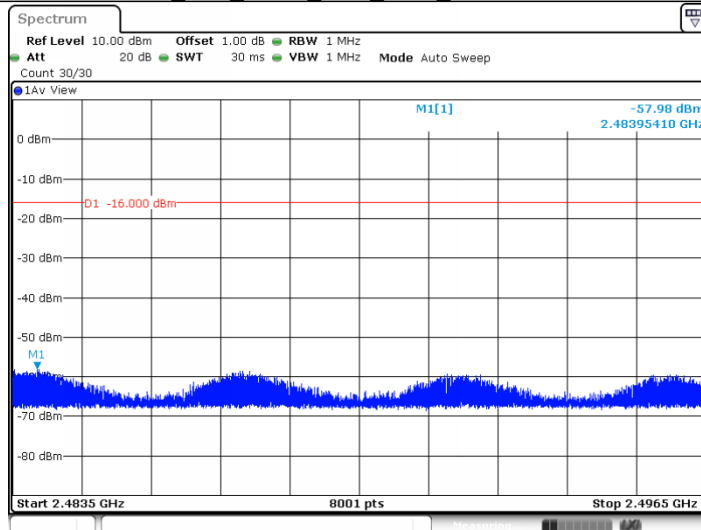
Date: 6 FEB 2021 20:09:03

NTNV_BLE_BT5.0_Ant1_2440_2387~2400



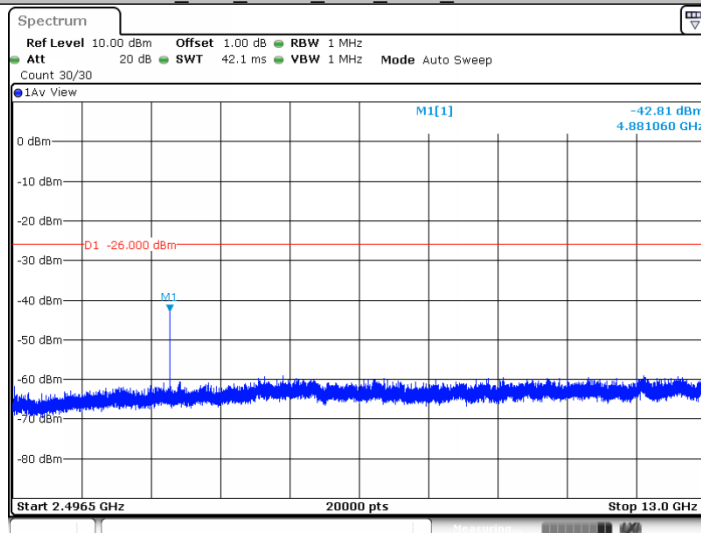
Date: 6 FEB 2021 20:09:12

NTNV_BLE_BT5.0_Ant1_2440_2483.5~2496.5



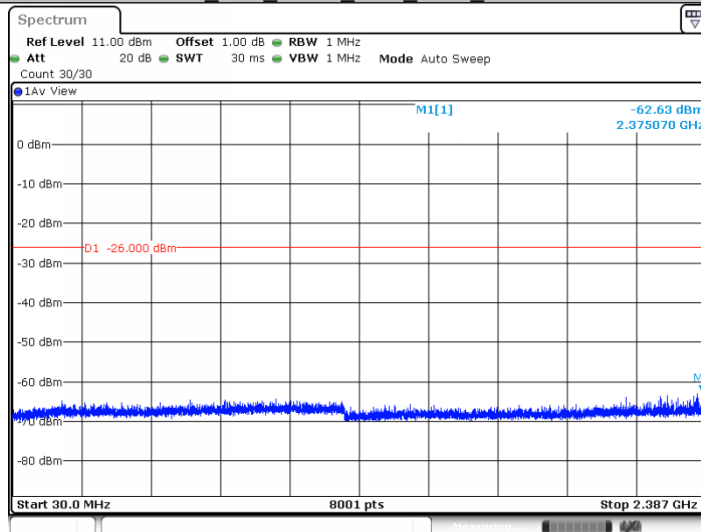
Date: 6 FEB 2021 20:09:24

NTNV_BLE_BT5.0_Ant1_2440_2496.5~13000



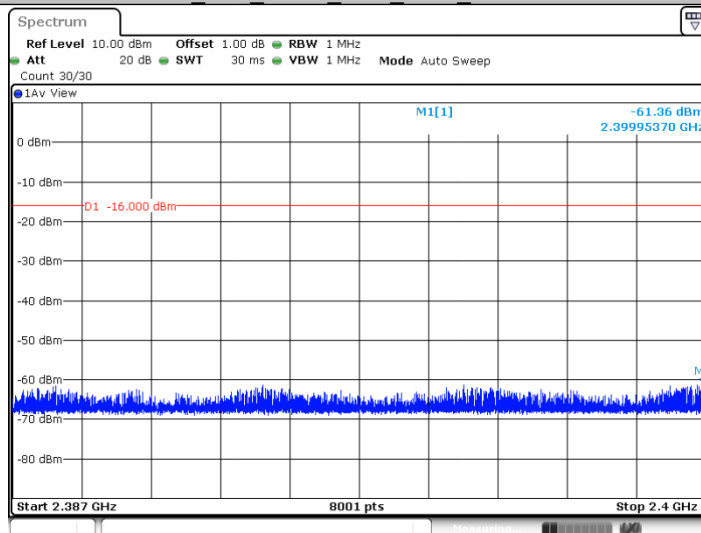
Date: 6 FEB 2021 20:09:34

NTNV_BLE_BT5.0_Ant1_2480_30~2387



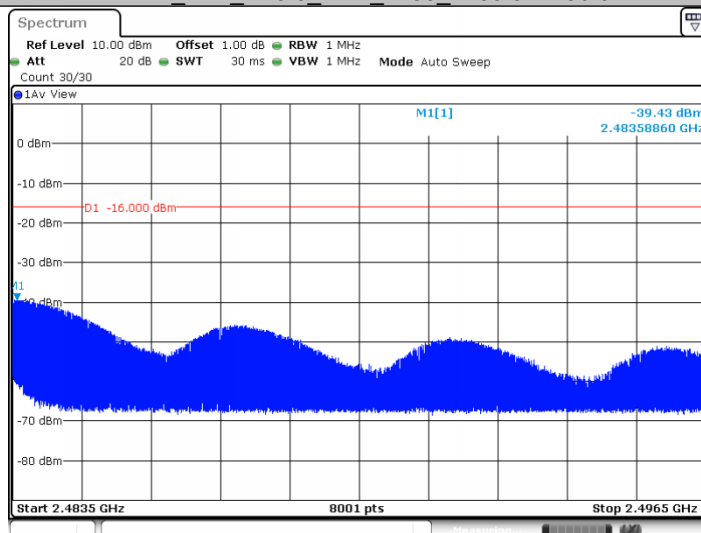
Date: 6 FEB 2021 20:11:52

NTNV_BLE_BT5.0_Ant1_2480_2387~2400



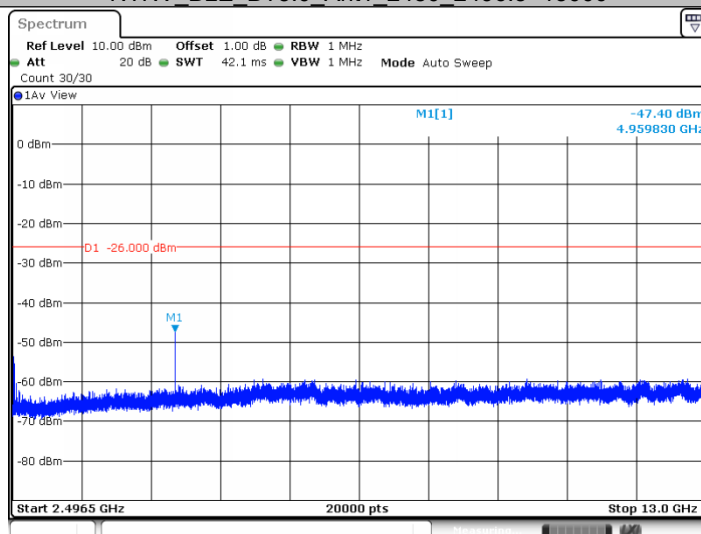
Date: 6.FEB.2021 20:12:01

NTNV_BLE_BT5.0_Ant1_2480_2483.5~2496.5



Date: 6.FEB.2021 20:12:13

NTNV_BLE_BT5.0_Ant1_2480_2496.5~13000



Date: 6.FEB.2021 20:12:23

3.7 Secondary Radiated Emissions (Conducted) (For receiver)

3.7.1 Test condition

Channel:	Low: 2402MHz; Middle: 2440MHz; High: 2480MHz
Test position:	Transmitting
Ambient temperature:	23.1°C
Relative humidity:	56.3%
Atmosphere Pressure:	101.8KPa

3.7.2 Limit (ARIB STD-T66, Clause 3.5 (1))

The limit on secondary emissions radiated from the receiving equipment within which the function of other radio equipment will not be impaired shall be, in terms of the power of a dummy antenna circuit that has the same electrical constant as the receiving antenna, 4 nW or less at a frequency below 1 GHz and 20 nW or less at a frequency of 1 GHz or higher as measured using the circuit.

3.7.3 Test Result

1Mbps:

TestCondition	TestMode	Channel	Freq.Range(MHz)	Result(dBm)	Limit(dBm)	Verdict
NTNV	BLE_BT	2402	30~1000	-85.85	<=-54	PASS
		2402	1000~13000	-74.32	<=-47	PASS
		2440	30~1000	-87.37	<=-54	PASS
		2440	1000~13000	-74.03	<=-47	PASS
		2480	30~1000	-86.49	<=-54	PASS
		2480	1000~13000	-74.52	<=-47	PASS

2Mbps:

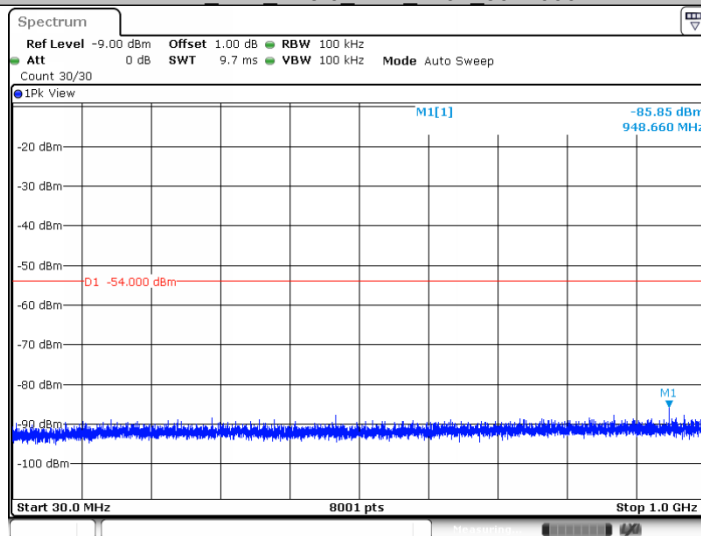
TestCondition	TestMode	Channel	Freq.Range(MHz)	Result(dBm)	Limit(dBm)	Verdict
NTNV	BLE_BT	2402	30~1000	-78.33	<=-54	PASS
		2402	1000~13000	-74.3	<=-47	PASS
		2440	30~1000	-78.12	<=-54	PASS
		2440	1000~13000	-74.32	<=-47	PASS
		2480	30~1000	-80.2	<=-54	PASS
		2480	1000~13000	-73.96	<=-47	PASS

3.7.4 Result

The equipment met the requirement of this clause.

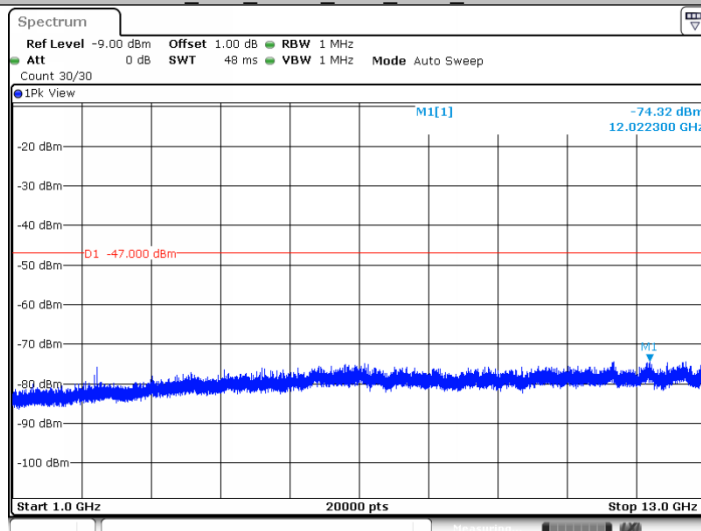
1Mbps:

NTNV_BLE_BT5.0_Ant1_2402_30~1000



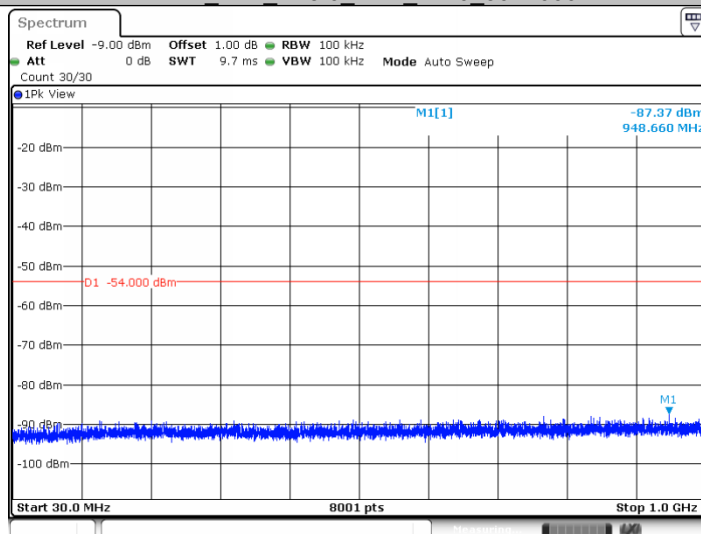
Date: 1.MAR.2021 11:17:30

NTNV_BLE_BT5.0_Ant1_2402_1000~13000



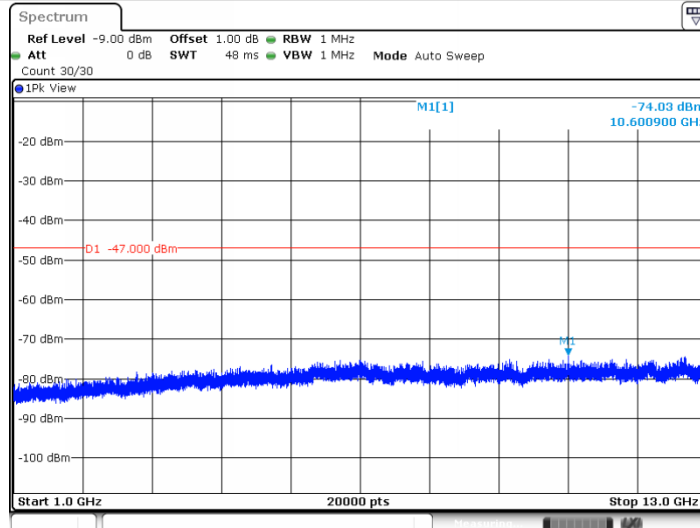
Date: 1.MAR.2021 11:17:41

NTNV_BLE_BT5.0_Ant1_2440_30~1000



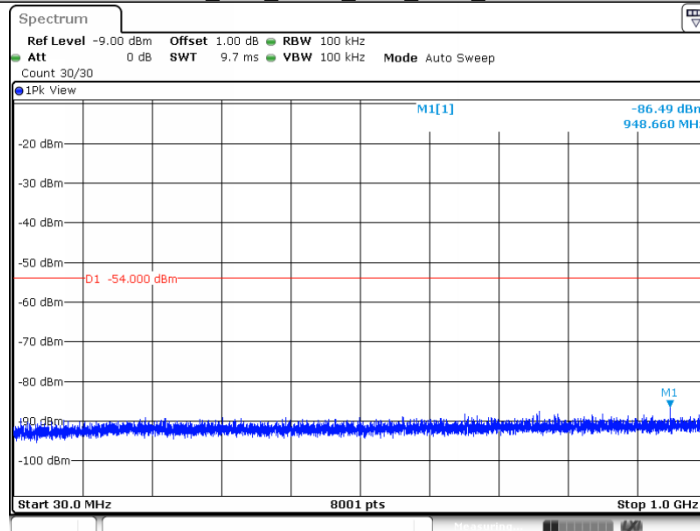
Date: 1.MAR.2021 11:16:05

NTNV_BLE_BT5.0_Ant1_2440_1000~13000



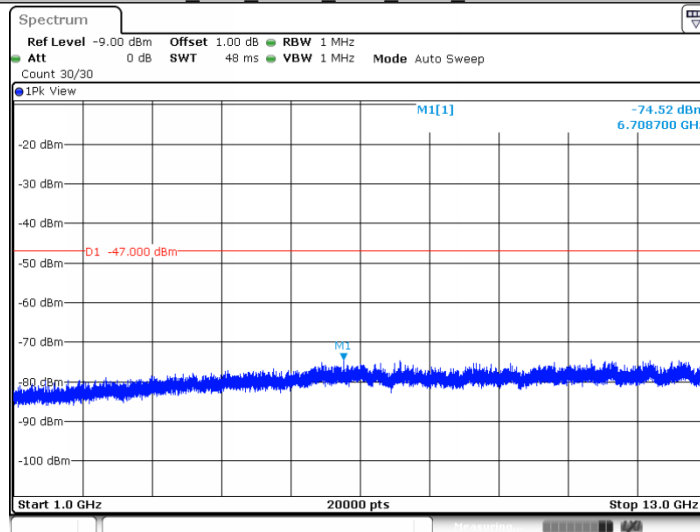
Date: 1.MAR.2021 11:16:15

NTNV_BLE_BT5.0_Ant1_2480_30~1000



Date: 1.MAR.2021 11:16:51

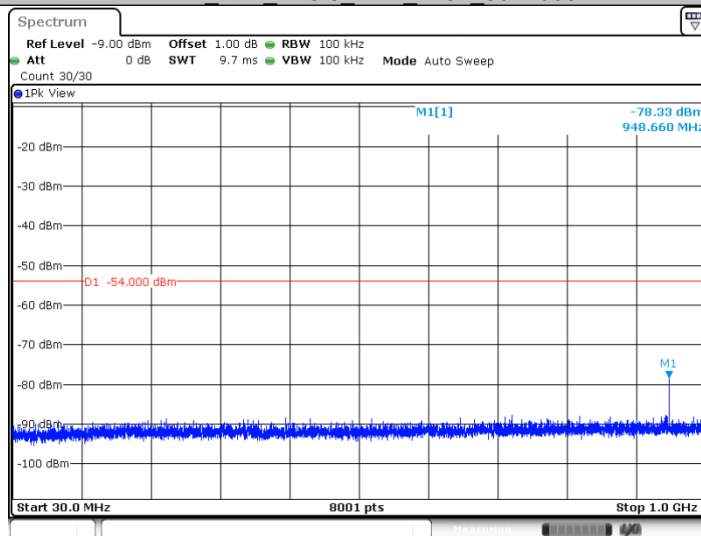
NTNV_BLE_BT5.0_Ant1_2480_1000~13000



Date: 1.MAR.2021 11:17:01

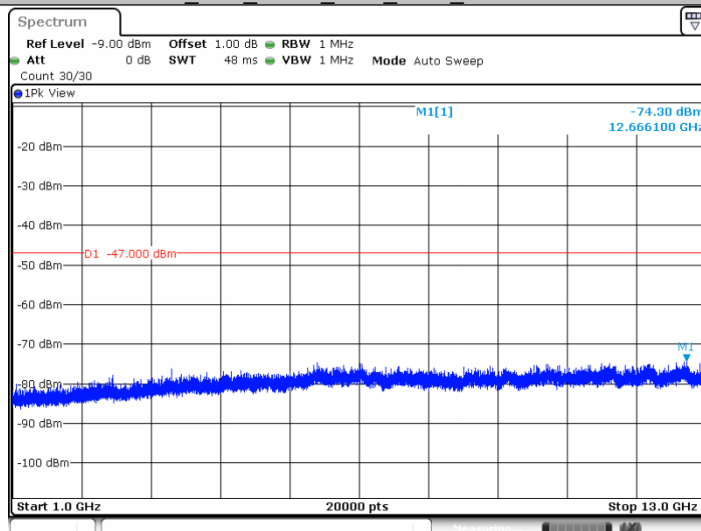
2Mbps:

NTNV_BLE_BT5.0_Ant1_2402_30~1000



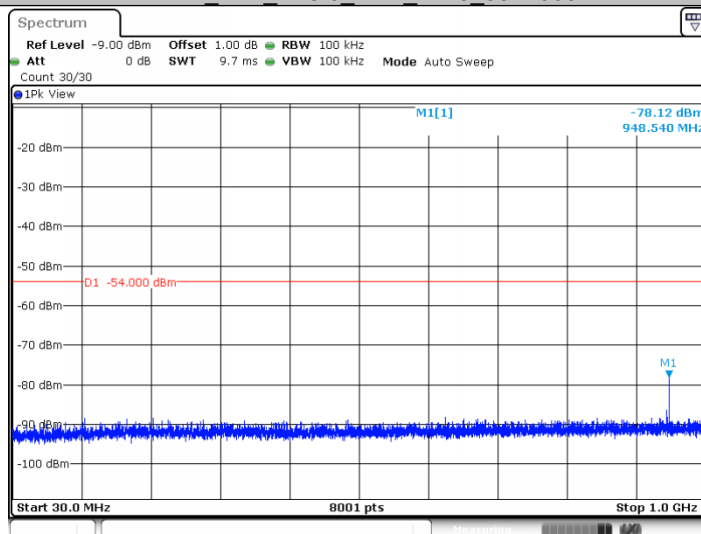
Date: 6 FEB 2021 20:16:18

NTNV_BLE_BT5.0_Ant1_2402_1000~13000



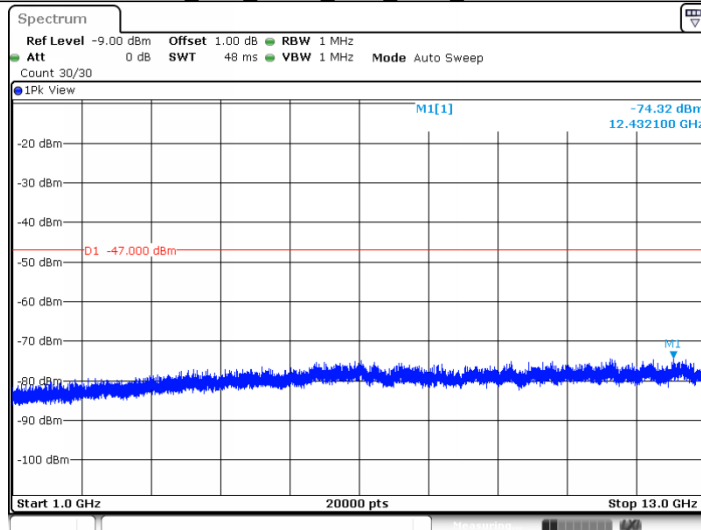
Date: 6 FEB 2021 20:16:29

NTNV_BLE_BT5.0_Ant1_2440_30~1000



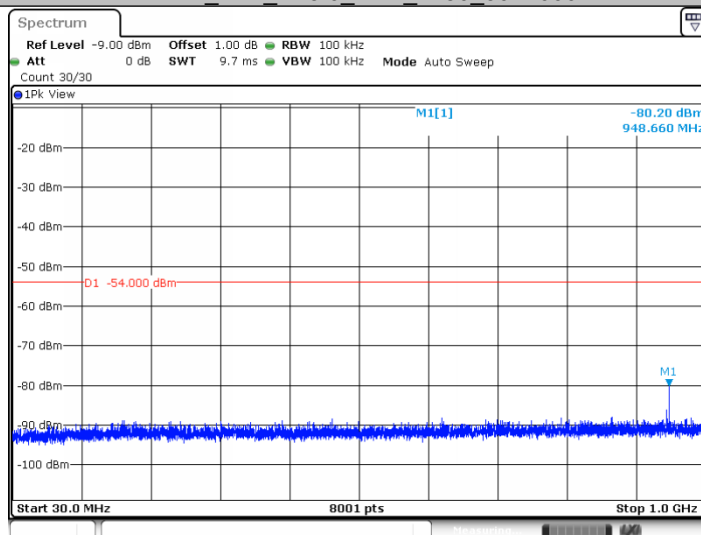
Date: 6 FEB 2021 20:16:41

NTNV_BLE_BT5.0_Ant1_2440_1000~13000



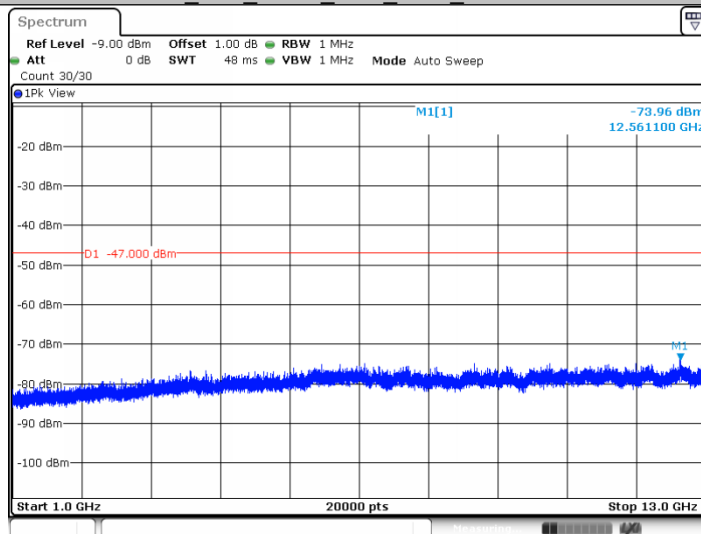
Date: 6.FEB.2021 20:16:52

NTNV_BLE_BT5.0_Ant1_2480_30~1000



Date: 6.FEB.2021 20:17:04

NTNV_BLE_BT5.0_Ant1_2480_1000~13000



Date: 6.FEB.2021 20:17:15

3.8 Interference prevention function

3.8.1 Test condition

Channel:	Low: 2402MHz; Middle: 2440MHz; High: 2480MHz
Test position:	Transmitting
Ambient temperature:	23.1°C
Relative humidity:	56.3%
Atmosphere Pressure:	101.8KPa

3.8.2 Limit

Item	Limits
Identification Code	≥48 bits

Measured Result:

Test Conditions	Operation Frequency		
	2402 MHz	2440 MHz	2480 MHz
Normal Voltage (48VDC)	48	48	48

3.8.3 Result

The equipment met the requirement of this clause.

4 Photographs of Test Set-ups

