

RADIO TEST REPORT

FCC ID: 2AKDT-ACD02G

Product: Dongle

Trade Mark: 

Model No.: ACD02-C

Family Model: ACD02-G、ACD02-H

Report No.: N26012205408E

Issue Date: Mar. 10, 2026

Prepared for

XPPEN TECHNOLOGY CO.

15350 FAIRFIELD RANCH RD #G CHINO HILLS, CA 91709

Prepared by

Shenzhen NTEK Testing Technology Co., Ltd.

No. 24 Xinfu East Road, Xiangshan Community, Xinqiao Street,
Baoan District, Shenzhen, Guangdong, People's Republic of China

Tel. 0755-2320 0050 Website: <http://www.ntek.org.cn>

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1 TEST RESULT CERTIFICATION

Applicant's name	XPPEN TECHNOLOGY CO.
Address	15350 FAIRFIELD RANCH RD #G CHINO HILLS, CA 91709
Manufacturer's Name	Hanvon Ugee Technology Co., Ltd.
Address	2/F, West of 3/F, 4/F, No.4 Building, Fulongte Industrial Park, Huaxing Road, Langkou Community, Dalang Street, Longhua District, Shenzhen
Product description	
Product name	Dongle
Trade Mark	
Model and/or type reference	ACD02-C
Family Model	ACD02-G、ACD02-H
Test Sample number	S2601230150-1#
Date (s) of performance of tests..	Jan. 23, 2026 ~ Mar. 10, 2026

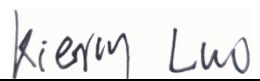
Measurement Procedure Used:

APPLICABLE STANDARDS	
APPLICABLE STANDARD/ TEST PROCEDURE	TEST RESULT
FCC 47 CFR Part 2, Subpart J FCC 47 CFR Part 15, Subpart C ANSI C63.10-2020+Cor.1-2023 KDB 558074 D01 15.247 Meas Guidance v05r02	Complied

This device described above has been tested by Shenzhen NTEK Testing Technology Co., Ltd., and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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The test results of this report relate only to the tested sample identified in this report.

Prepared By : 
Kieron Luo
(Project Engineer)

Reviewed By : 
Aaron Cheng
(Supervisor)

Approved By : 
Alex Li
(Manager)

2 SUMMARY OF TEST RESULTS

FCC Part15 (15.247), Subpart C			
Standard Section	Test Item	Verdict	Remark
15.207	Conducted Emission	PASS	
15.247 (a)(2)	6dB Bandwidth	PASS	
15.247 (b)	Peak Output Power	PASS	
15.209 (a) 15.205 (a)	Radiated Spurious Emission	PASS	
15.247 (e)	Power Spectral Density	PASS	
15.247 (d)	Band Edge Emission	PASS	
15.247 (d)	Spurious RF Conducted Emission	PASS	
15.203	Antenna Requirement	PASS	
Remark: 1. "N/A" denotes test is not applicable in this Test Report. 2. All test items were verified and recorded according to the standards and without any deviation during the test.			

3 FACILITIES AND ACCREDITATIONS

3.1 FACILITIES

All measurement facilities used to collect the measurement data are located at No. 24 Xinfu East Road, Xiangshan Community, Xinqiao Street, Baoan District, Shenzhen, Guangdong, People's Republic of China.

The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.10 and CISPR Publication 22.

3.2 LABORATORY ACCREDITATIONS AND LISTINGS

Site Description

CNAS-Lab. : The Certificate Registration Number is L5516.

IC-Registration : The Certificate Registration Number is 9270A.

CAB identifier: CN0074

FCC- Accredited : Test Firm Registration Number: 463705.

Designation Number: CN1184

A2LA-Lab. : The Certificate Registration Number is 4298.01

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories.

This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated 8 January 2009).

Name of Firm : Shenzhen NTEK Testing Technology Co., Ltd.

Site Location : No. 24 Xinfu East Road, Xiangshan Community, Xinqiao Street, Baoan District, Shenzhen, Guangdong, People's Republic of China.

3.3 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 %.

No.	Item	Uncertainty
1	Conducted Emission Test	$\pm 2.80\text{dB}$
2	RF power, conducted, PSD	$\pm 0.16\text{dB}$
3	Spurious emissions, conducted	$\pm 0.21\text{dB}$
4	All emissions, radiated(30MHz~1GHz)	$\pm 2.64\text{dB}$
5	All emissions, radiated(1GHz~6GHz)	$\pm 2.40\text{dB}$
6	All emissions, radiated(>6GHz)	$\pm 2.52\text{dB}$
7	Temperature	$\pm 0.5^{\circ}\text{C}$
8	Humidity	$\pm 2\%$
9	All emissions, radiated(9KHz~30MHz)	$\pm 6\text{dB}$
10	Occupied bandwidth	$\pm 4.7\%$
11	Duty cycle	$\pm 2.5\%$

4 GENERAL DESCRIPTION OF EUT

Product Feature and Specification	
Equipment	Dongle
Trade Mark	
FCC ID	2AKDT-ACD02G
Model No.	ACD02-C
Family Model	ACD02-G、ACD02-H
Model Difference	All models are the same circuit and RF module, except for model names and Sales area differences
Operating Frequency	BLE 1M: 2402~2480 MHz
Modulation	GFSK
Number of Channels	40 Channels
Antenna Type	PCB Antenna
Antenna Gain	3.64 dBi
Adapter	N/A
Battery	N/A
Power supply	DC 5V from USB Port
HW Version	ACD02_H_TLSR8258_R0A_20240530
FW Version	8258_master_20240819
SW Version	N/A

Note 1: Based on the application, features, or specification exhibited in User's Manual, the EUT is considered as an ITE/Computing Device. More details of EUT technical specification, please refer to the User's Manual.

Note 2: The engineering test program was provided and the EUT was programmed to be in continuously transmitting mode.

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5 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generated from EUT, the test system was pre-scanning tested based on the consideration of following EUT operation mode or test configuration mode which possibly have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

The Transmitter was operated in the normal operating mode. The TX frequency was fixed which was for the purpose of the measurements.

Test of channel included the lowest and middle and highest frequency to perform the test, then record on this report.

Those data rates (1Mbps/2Mbps for GFSK modulation) were used for all test.

The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement –X, Y, and Z-plane. The X-plane results were found as the worst case and were shown in this report.

Carrier Frequency and Channel list:

BLE(1M)		BLE(2M)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
00	2402	00	2402
01	2404	01	2404
.....			
19	2440	19	2440
.....			
38	2478	38	2478
39	2480	39	2480

Note: $f_c = 2402\text{MHz} + k \times 2\text{MHz}$ $k=0$ to 39

The following summary table is showing all test modes to demonstrate in compliance with the standard.

Test Cases	
Test Item	Data Rate/ Modulation
AC Conducted Emission	Mode 1: normal link mode
Radiated Test Cases	Mode 1: normal link mode
	Mode 2: GFSK Tx Ch00 2402MHz 1Mbps/2Mbps
	Mode 3: GFSK Tx Ch19 2440MHz 1Mbps/2Mbps
	Mode 4: GFSK Tx Ch39 2480MHz 1Mbps/2Mbps
Conducted Test Cases	Mode 2: GFSK Tx Ch00 2402MHz 1Mbps/2Mbps
	Mode 3: GFSK Tx Ch19 2440MHz 1Mbps/2Mbps
	Mode 4: GFSK Tx Ch39 2480MHz 1Mbps/2Mbps

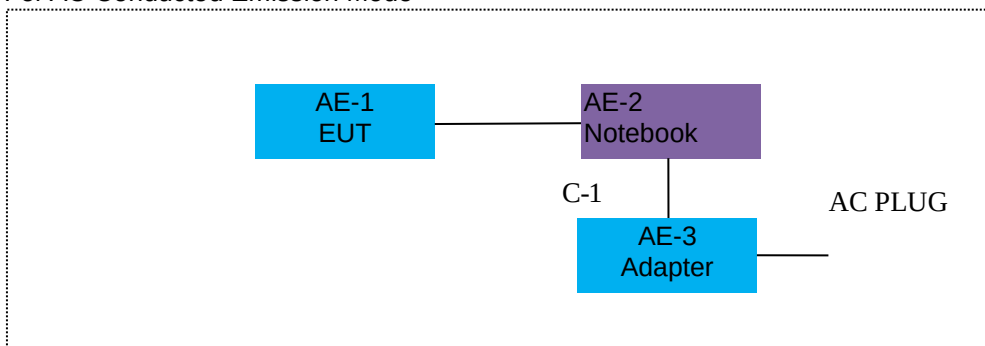
Note:

1. The engineering test program was provided and the EUT was programmed to be in continuously transmitting mode(duty cycle =100% during the test)
2. AC power line Conducted Emission was tested under maximum output power.
3. For radiated test cases, the worst mode data rate 2Mbps was reported only, because this data rate has the highest RF output power at preliminary tests, and no other significantly frequencies found in conducted spurious emission.

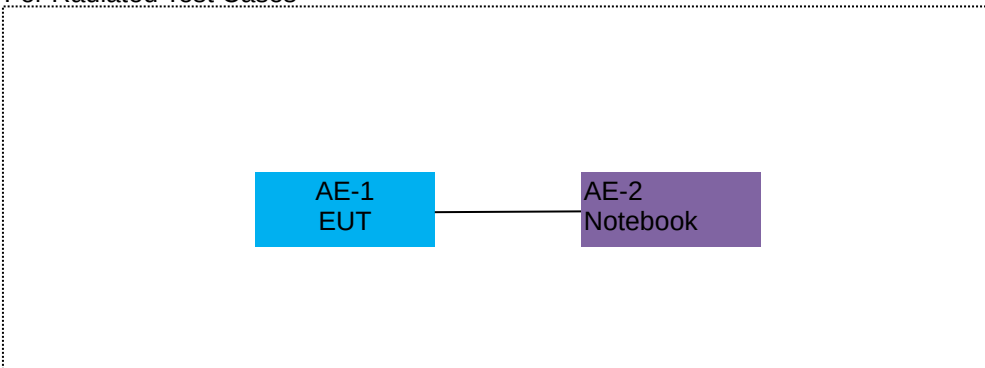
6 SETUP OF EQUIPMENT UNDER TEST

6.1 BLOCK DIAGRAM CONFIGURATION OF TEST SYSTEM

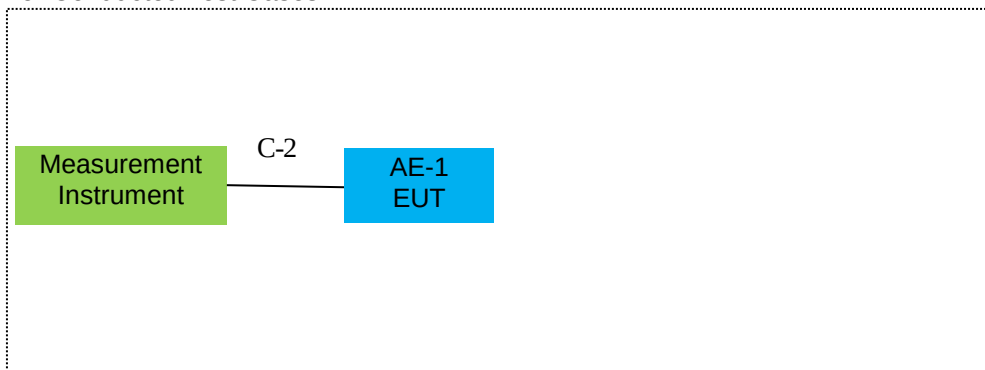
For AC Conducted Emission Mode



For Radiated Test Cases



For Conducted Test Cases



Note: The temporary antenna connector is soldered on the PCB board in order to perform conducted tests and this temporary antenna connector is listed in the equipment list.

6.2 SUPPORT EQUIPMENT

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Manufacturer	Model/Type No.	Series No.	Note
AE-1	Dongle	XPPEN TECHNOLOGY CO.	ACD02-C	N/A	EUT
AE-2	Notebook	ASUS	UM3406	N/A	Peripherals
AE-3	Adapter	Great Wall	ADP65S-1903420	N/A	Peripherals

Item	Cable Type	Shielded Type	Ferrite Core	Length
C-1	DC Cable	YES	NO	0.8m
C-2	RF Cable	YES	NO	0.1m

Notes:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in 『Length』 column.
- (3) “YES” is means “shielded” “with core”; “NO” is means “unshielded” “without core”.

6.3 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation& Conducted Test equipment

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	Spectrum Analyzer	Agilent	E4440A	MY41000130	2025.04.24	2026.04.23	1 year
2	Spectrum Analyzer	Agilent	N9020A	MY49100060	2025.04.17	2026.04.16	1 year
3	Spectrum Analyzer	R&S	FSV40	101417	2025.04.17	2026.04.16	1 year
4	Test Receiver	R&S	ESPI7	101318	2025.04.17	2026.04.16	1 year
5	Bilog Antenna	TESEQ	CBL6111D	31216	2025.04.17	2026.04.16	1 year
6	50Ω Coaxial Switch	Anritsu	MP59B	6200983705	2024.04.26	2027.04.25	3 year
7	Horn Antenna	EM	EM-AH-10180	2011071402	2024.05.12	2027.05.11	3 year
8	Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	803	2024.05.12	2027.05.11	3 year
9	Amplifier	EMC	EMC051835SE	980246	2025.04.17	2026.04.16	1 year
10	Active Loop Antenna	SCHWARZBECK	FMZB 1519B	055	2024.05.17	2027.05.16	3 year
11	Power Meter	DARE	RPR3006W	15I00041SN084	2025.04.17	2026.04.16	1 year
12	Test Cable (9KHz-30MHz)	N/A	R-01	N/A	2023.05.06	2026.05.05	3 year
13	Test Cable (30MHz-1GHz)	N/A	R-02	N/A	2023.05.06	2026.05.05	3 year
14	High Test Cable(1G-40GHz)	N/A	R-03	N/A	2023.05.06	2026.05.05	3 year
15	Filter	TRILTHIC	2400MHz	29	2024.04.26	2027.04.25	3 year
16	temporary antenna connector (Note)	NTS	R001	N/A	N/A	N/A	N/A
17	Log-Periodic Antenna	SCHWARZBECK	VULB 9162	584	2025.04.19	2026.04.18	1 year

Note:

We will use the temporary antenna connector (soldered on the PCB board) When conducted test
And this temporary antenna connector is listed within the instrument list

AC Conduction Test equipment

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	Test Receiver	R&S	ESCI	101160	2025.04.17	2026.04.16	1 year
2	LISN	R&S	ENV216	101313	2025.04.16	2026.04.15	1 year
3	LISN	SCHWARZBECK	NNLK 8129	8129245	2025.04.16	2026.04.15	1 year
4	50Ω Coaxial Switch	ANRITSU CORP	MP59B	6200983704	2024.04.26	2027.04.25	3 year
5	Test Cable (9KHz-30MHz)	N/A	C01	N/A	2023.05.06	2026.05.05	3 year
6	Test Cable (9KHz-30MHz)	N/A	C02	N/A	2023.05.06	2026.05.05	3 year
7	Test Cable (9KHz-30MHz)	N/A	C03	N/A	2023.05.06	2026.05.05	3 year

Note: Each piece of equipment is scheduled for calibration once a year except the Aux Equipment & Test Cable which is scheduled for calibration every 2 or 3 years.

Measurement Software

Item	Manufacturer	Software Name	Software Version	Description
1	MWRFtest	MTS 8310 2.4GHz/5GHz	2.0	RF Conducted Test
2	Farad	EZ-EMC_RE	AIT-03A	RadiatedTest
3	raditeq	RadiMation	2023.1.3	RadiatedTest
4	Farad	EZ-EMC_CE	AIT-03A	AC Conducted Test

7 TEST REQUIREMENTS

7.1 CONDUCTED EMISSIONS TEST

7.1.1 Applicable Standard

According to FCC Part 15.207(a)

7.1.2 Conformance Limit

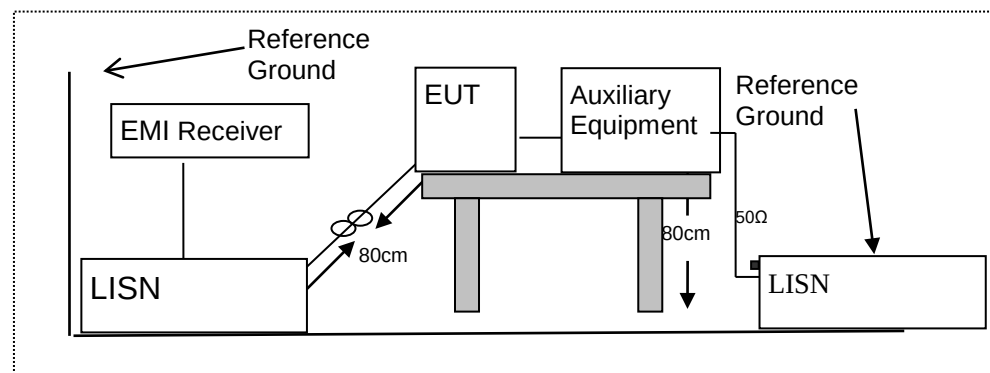
Frequency(MHz)	Conducted Emission Limit	
	Quasi-peak	Average
0.15-0.5	66-56*	56-46*
0.5-5.0	56	46
5.0-30.0	60	50

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

7.1.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.1.4 Test Configuration



7.1.5 Test Procedure

According to the requirements in Section 13.1.4.1 of ANSI C63.10-2020+Cor.1-2023 Conducted emissions the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-Peak and average detector mode.

1. The EUT was placed 0.4 meter from the conducting wall of the shielding room.
2. The EUT was placed on a table which is 0.8m above ground plane.
3. Connect EUT to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
4. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40cm long.
5. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
6. LISN at least 80 cm from nearest part of EUT chassis.
7. The frequency range from 150KHz to 30MHz was searched.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth(IF bandwidth=9KHz) with Maximum Hold Mode
9. For the actual test configuration, please refer to the related Item –EUT Test Photos.

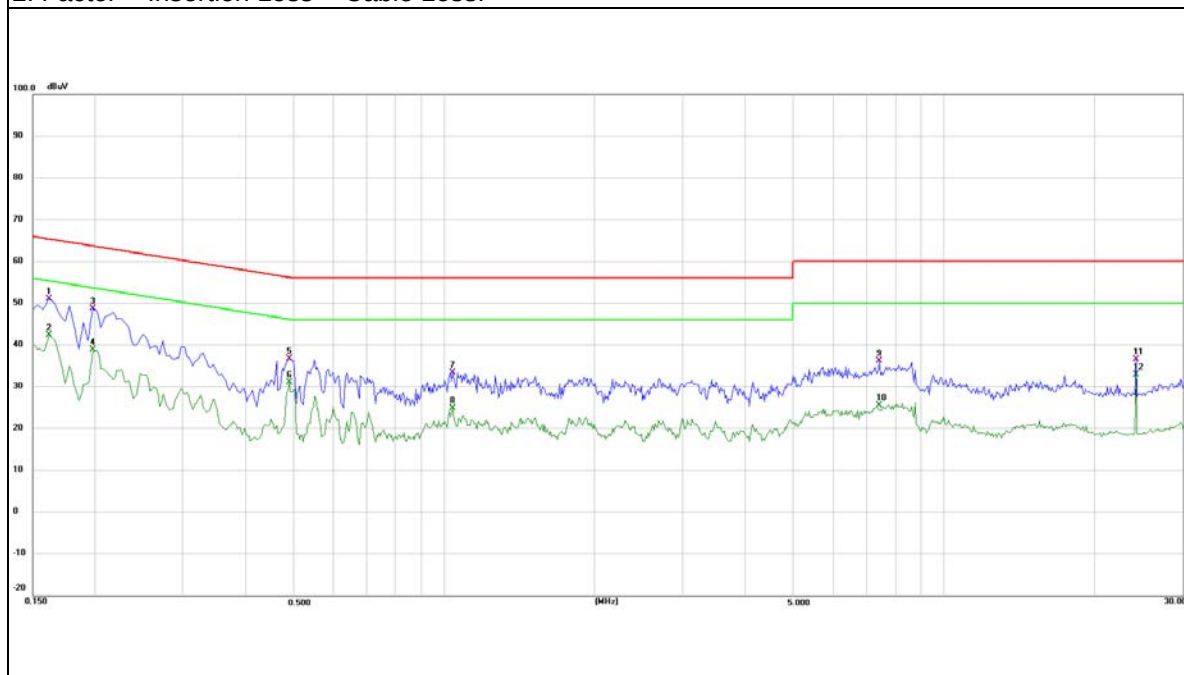
7.1.6 Test Results

EUT:	Dongle	Model Name :	ACD02-C
Temperature:	25.7°C	Relative Humidity:	43.9%
Pressure:	1010hPa	Phase :	L
Test Voltage :	DC 5V from Notebook	Test Mode:	Mode 1

Frequency (MHz)	Reading Level (dBμV)	Correct Factor (dB)	Measure-ment (dBμV)	Limits (dBμV)	Margin (dB)	Remark
0.1620	31.69	19.43	51.12	65.36	-14.24	peak
0.1620	23.04	19.43	42.47	55.36	-12.89	AVG
0.1980	29.34	19.40	48.74	63.69	-14.95	peak
0.1980	19.53	19.40	38.93	53.69	-14.76	AVG
0.4900	17.33	19.50	36.83	56.17	-19.34	peak
0.4900	11.58	19.50	31.08	46.17	-15.09	AVG
1.0420	13.91	19.52	33.43	56.00	-22.57	peak
1.0420	5.36	19.52	24.88	46.00	-21.12	AVG
7.4460	16.72	19.61	36.33	60.00	-23.67	peak
7.4460	6.09	19.61	25.70	50.00	-24.30	AVG
24.2260	16.68	19.87	36.55	60.00	-23.45	peak
24.2260	13.09	19.87	32.96	50.00	-17.04	AVG

Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.

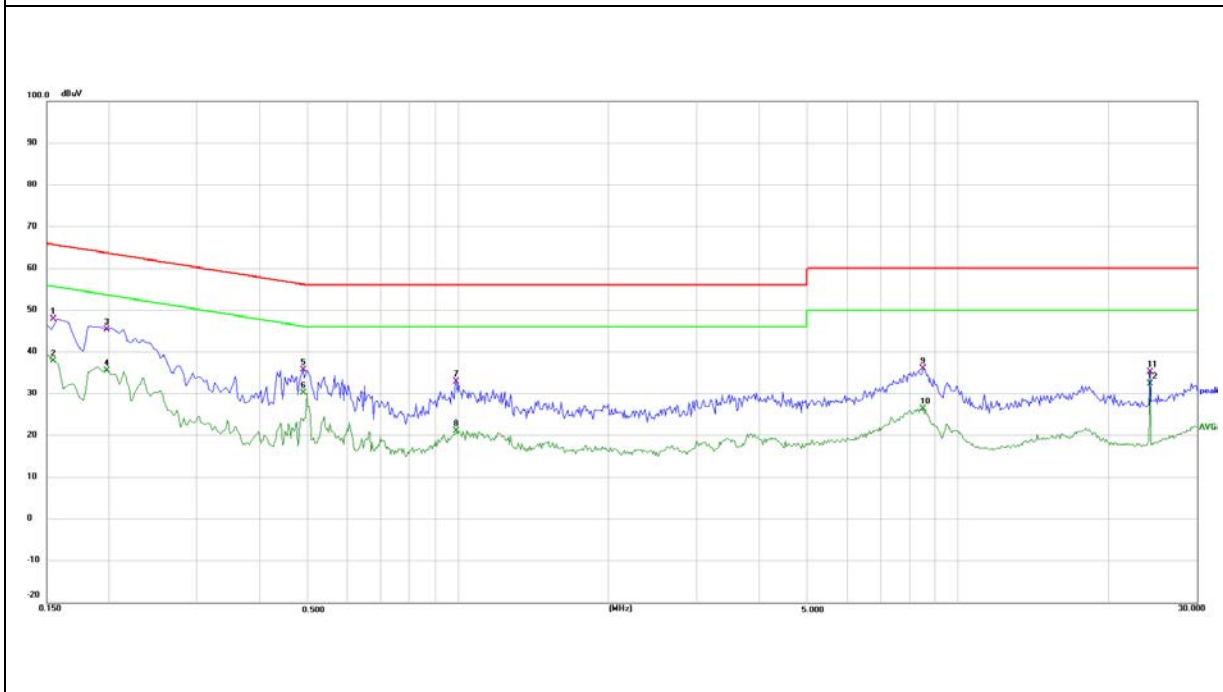


EUT:	Dongle	Model Name :	ACD02-C
Temperature:	25.7°C	Relative Humidity:	43.9%
Pressure:	1010hPa	Phase :	N
Test Voltage :	DC 5V from Notebook	Test Mode:	Mode 1

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBμV)	(dB)	(dBμV)	(dBμV)	(dB)	
0.1548	28.47	19.44	47.91	65.74	-17.83	peak
0.1548	18.54	19.44	37.98	55.74	-17.76	AVG
0.1980	26.06	19.40	45.46	63.69	-18.23	peak
0.1980	16.19	19.40	35.59	53.69	-18.10	AVG
0.4900	16.25	19.50	35.75	56.17	-20.42	peak
0.4900	10.82	19.50	30.32	46.17	-15.85	AVG
0.9900	13.36	19.52	32.88	56.00	-23.12	peak
0.9900	1.66	19.52	21.18	46.00	-24.82	AVG
8.5180	16.42	19.62	36.04	60.00	-23.96	peak
8.5180	6.87	19.62	26.49	50.00	-23.51	AVG
24.2260	15.45	19.87	35.32	60.00	-24.68	peak
24.2260	12.53	19.87	32.40	50.00	-17.60	AVG

Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.



7.2 RADIATED SPURIOUS EMISSION

7.2.1 Applicable Standard

According to FCC Part 15.247(d) &15.209 &15.205 and ANSI C63.10-2020+Cor.1-2023

7.2.2 Conformance Limit

According to FCC Part 15.247(d): radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).
According to FCC Part15.205, Restricted bands

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
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	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	(2)
13.36-13.41			

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

Restricted Frequency(MHz)	Field Strength (μV/m)	Field Strength (dBμV/m)	Measurement Distance
0.009~0.490	2400/F(KHz)	20 log (uV/m)	300
0.490~1.705	24000/F(KHz)	20 log (uV/m)	30
1.705~30.0	30	29.5	30
30-88	100	40	3
88-216	150	43.5	3
216-960	200	46	3
Above 960	500	54	3

Limits of Radiated Emission Measurement(Above 1000MHz)

Frequency(MHz)	Class B (dBuV/m) (at 3M)	
	PEAK	AVERAGE
Above 1000	74	54

Remark :1. Emission level in dBuV/m=20 log (uV/m)

2. Measurement was performed at an antenna to the closed point of EUT distance of meters.

3. For Frequency 9kHz~30MHz: Distance extrapolation factor =40log(Specific distance/ test distance)(dB); Limit line=Specific limits(dBuV) + distance extrapolation factor.

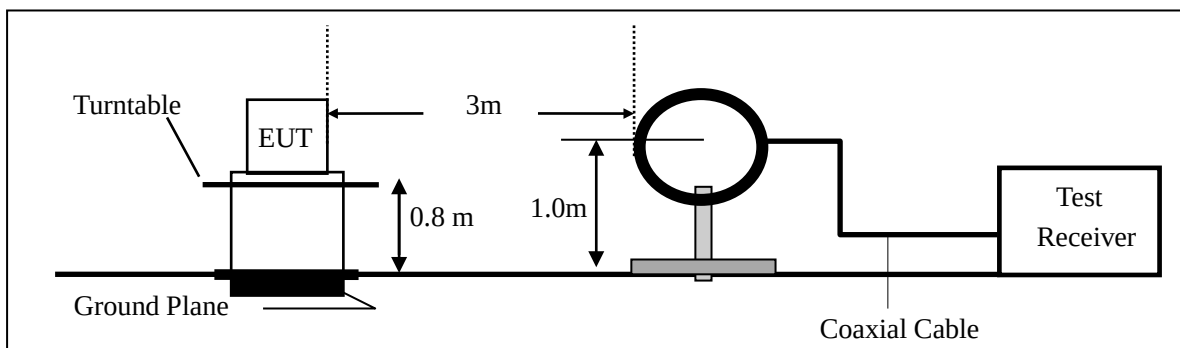
For Frequency above 30MHz: Distance extrapolation factor =20log(Specific distance/ test distance)(dB);
Limit line=Specific limits(dBuV) + distance extrapolation factor.

7.2.3 Measuring Instruments

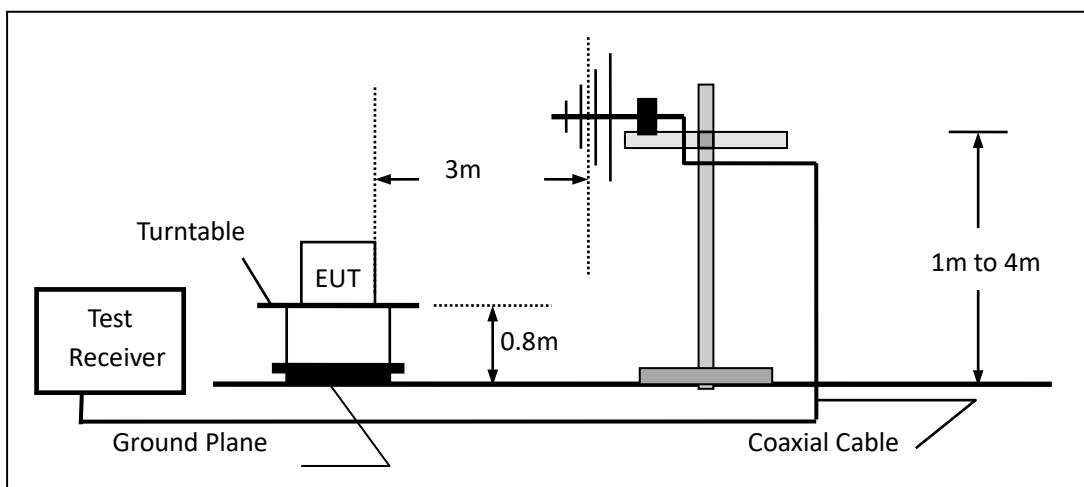
The Measuring equipment is listed in the section 6.3 of this test report.

7.2.4 Test Configuration

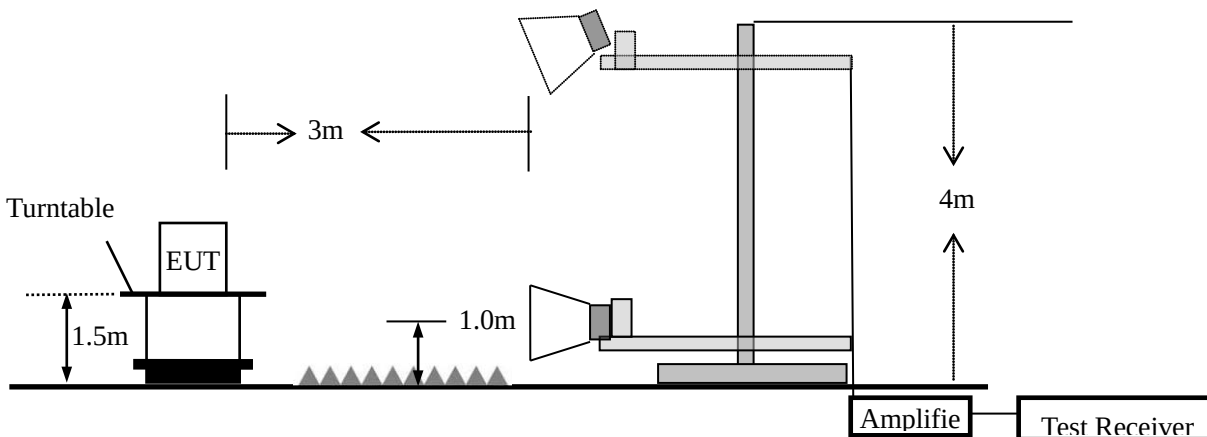
(a) For radiated emissions below 30MHz



(b) For radiated emissions from 30MHz to 1000MHz



(c) For radiated emissions above 1000MHz



7.2.5 Test Procedure

The test site semi-anechoic chamber has met the requirement of NSA tolerance 4 dB according to the standards: ANSI C63.10-2020+Cor.1-2023. The test distance is 3m. The setup is according to the requirements in Section 13.1.4.1 of ANSI C63.10-2020+Cor.1-2023 and CAN/CSA-CEI/IEC CISPR 22. This test is required for any spurious emission that falls in a Restricted Band, as defined in Section 15.205. It must be performed with the highest gain of each type of antenna proposed for use with the EUT.

Use the following spectrum analyzer settings:

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB / VB (emission in restricted band)	1 MHz / 1 MHz for Peak, 1 MHz / 1MHz for Average

Receiver Parameter	Setting
Attenuation	Auto
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

- The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- The EUT was placed on the top of a rotating table 0.8 m for below 1GHz and 1.5m for above 1GHz the ground at a 3 meter. The table was rotated 360 degrees to determine the position of the highest radiation.
- The height of the equipment or of the substitution antenna shall be 0.8 m for below 1GHz and 1.5m for above 1GHz; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- For the radiated emission test above 1GHz:
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.
- 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 Quasi Peak detector mode re-measured.
- If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

Note:

Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

During the radiated emission test, the Spectrum Analyzer was set with the following configurations:

Frequency Band (MHz)	Function	Resolution bandwidth	Video Bandwidth
30 to 1000	QP	120 kHz	300 kHz
Above 1000	Peak	1 MHz	1 MHz
	Average	1 MHz	1 MHz

Note: for the frequency ranges below 30 MHz, a narrower RBW is used for these ranges but the measured value should add a RBW correction factor (RBWCF) where $RBWCF [dB] = 10 \cdot \lg(100 [kHz] / \text{narrower RBW} [kHz])$. , the narrower RBW is 1 kHz and RBWCF is 20 dB for the frequency 9 kHz to 150 kHz, and the narrower RBW is 10 kHz and RBWCF is 10 dB for the frequency 150 kHz to 30 MHz.

7.2.6 Test Results

■ Spurious Emission below 30MHz (9KHz to 30MHz)

EUT:	Dongle	Model No.:	ACD02-C
Temperature:	25 °C	Relative Humidity:	56%
Test Mode:	Mode1/Mode2/Mode3/ Mode4	Test By:	Kieron Luo

Freq. (MHz)	Ant.Pol. H/V	Emission Level(dBuV/m)		Limit 3m(dBuV/m)		Over(dB)	
		PK	AV	PK	AV	PK	AV
--	--	--	--	--	--	--	--

Note: the amplitude of spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.

■ Spurious Emission below 1GHz (30MHz to 1GHz)

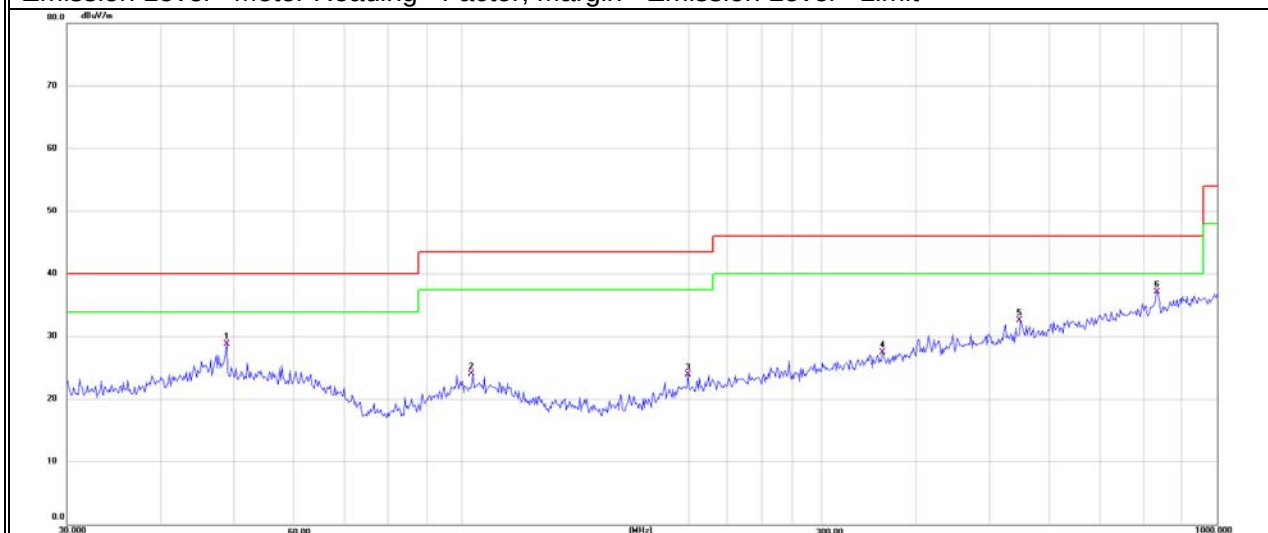
All the modulation modes have been tested, and the worst result was report as below:

EUT:	Dongle	Model Name :	ACD02-C
Temperature:	23.2℃	Relative Humidity:	47.1%
Pressure:	1010hPa	Test Mode:	Mode 2
Test Voltage :	DC 5V		

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	48.8430	8.74	20.17	28.91	40.00	-11.09	peak
V	103.4419	6.00	18.12	24.12	43.50	-19.38	peak
V	199.2860	6.12	17.85	23.97	43.50	-19.53	peak
V	360.4480	5.84	21.68	27.52	46.00	-18.48	peak
V	549.0190	7.13	25.45	32.58	46.00	-13.42	peak
V	833.3170	7.51	29.70	37.21	46.00	-8.79	peak

Remark:

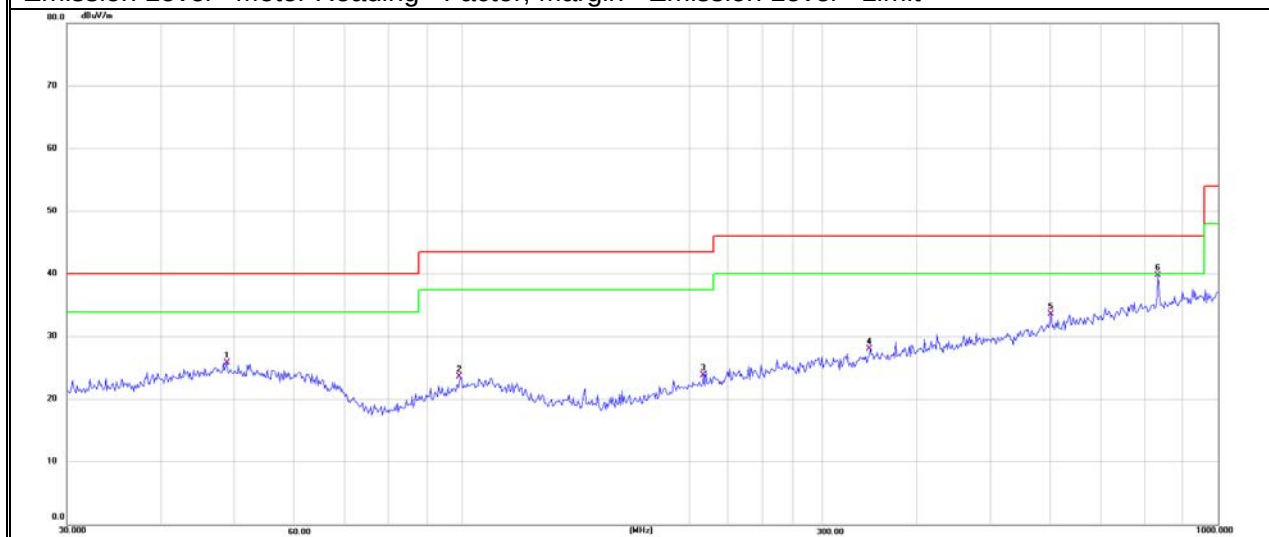
Emission Level= Meter Reading+ Factor, Margin= Emission Level - Limit



Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
H	48.8430	5.73	20.17	25.90	40.00	-14.10	peak
H	99.5279	6.01	17.69	23.70	43.50	-19.80	peak
H	208.5800	5.72	18.13	23.85	43.50	-19.65	peak
H	346.8090	6.27	21.77	28.04	46.00	-17.96	peak
H	601.4270	7.60	25.99	33.59	46.00	-12.41	peak
H	833.3170	10.11	29.70	39.81	46.00	-6.19	peak

Remark:

Emission Level= Meter Reading+ Factor, Margin= Emission Level - Limit



■ Spurious Emission Above 1GHz (1GHz to 25GHz)

EUT:	Dongle	Model No.:	ACD02-C
Temperature:	25 °C	Relative Humidity:	56%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Kieron Luo

Frequency	Read Level	Cable loss	Antenna Factor	Preamp Factor	Emission Level	Limits	Margin	Remark	Comment
(MHz)	(dBμV)	(dB)	dB/m	(dB)	(dBμV/m)	(dBμV/m)	(dB)		
Low Channel (2402 MHz)(GFSK)--Above 1G									
4804	54.44	5.21	35.59	44.30	50.94	74.00	-23.06	Pk	Vertical
4804	42.33	5.21	35.59	44.30	38.83	54.00	-15.17	AV	Vertical
7206	45.65	6.48	36.27	44.60	43.80	74.00	-30.20	Pk	Vertical
7206	34.59	6.48	36.27	44.60	32.74	54.00	-21.26	AV	Vertical
4804	53.92	5.21	35.55	44.30	50.38	74.00	-23.62	Pk	Horizontal
4804	41.60	5.21	35.55	44.30	38.06	54.00	-15.94	AV	Horizontal
7206	45.31	6.48	36.27	44.52	43.54	74.00	-30.46	Pk	Horizontal
7206	34.24	6.48	36.27	44.52	32.47	54.00	-21.53	AV	Horizontal
Mid Channel (2440 MHz)(GFSK)--Above 1G									
4880	54.07	5.21	35.66	44.20	50.74	74.00	-23.26	Pk	Vertical
4880	44.12	5.21	35.66	44.20	40.79	54.00	-13.21	AV	Vertical
7320	45.32	7.10	36.50	44.43	44.49	74.00	-29.51	Pk	Vertical
7320	33.83	7.10	36.50	44.43	33.00	54.00	-21.00	AV	Vertical
4880	53.28	5.21	35.66	44.20	49.95	74.00	-24.05	Pk	Horizontal
4880	42.75	5.21	35.66	44.20	39.42	54.00	-14.58	AV	Horizontal
7320	45.30	7.10	36.50	44.43	44.47	74.00	-29.53	Pk	Horizontal
7320	34.31	7.10	36.50	44.43	33.48	54.00	-20.52	AV	Horizontal
High Channel (2480 MHz)(GFSK)-- Above 1G									
4960	54.62	5.21	35.52	44.21	51.14	74.00	-22.86	Pk	Vertical
4960	42.66	5.21	35.52	44.21	39.18	54.00	-14.82	AV	Vertical
7440	46.38	7.10	36.53	44.60	45.41	74.00	-28.59	Pk	Vertical
7440	34.63	7.10	36.53	44.60	33.66	54.00	-20.34	AV	Vertical
4960	57.92	5.21	35.52	44.21	54.44	74.00	-19.56	Pk	Horizontal
4960	46.06	5.21	35.52	44.21	42.58	54.00	-11.42	AV	Horizontal
7440	47.68	7.10	36.53	44.60	46.71	74.00	-27.29	Pk	Horizontal
7440	35.81	7.10	36.53	44.60	34.84	54.00	-19.16	AV	Horizontal

Note:

- (1) Emission Level= Antenna Factor + Cable Loss + Read Level - Preamp Factor
- (2) All other emissions more than 20dB below the limit.
- (3) Only the worst data is recorded in the report, the data rates (1Mbps for GFSK modulation) test result is the worst

■ Spurious Emission in Restricted Band 2310-2390MHz and 2483.5-2500MHz

EUT:	Dongle	Model No.:	ACD02-C
Temperature:	25 °C	Relative Humidity:	56%
Test Mode:	Mode2/ Mode4	Test By:	Kieron Luo

Frequency	Meter Reading	Cable Loss	Antenna Factor	Preamp Factor	Emission Level	Limits	Margin	Detector	Comment
(MHz)	(dBμV)	(dB)	dB/m	(dB)	(dBμV/m)	(dBμV/m)	(dB)	Type	
1Mbps(GFSK)									
2310.00	51.40	2.97	27.80	43.80	38.37	74	-35.63	Pk	Horizontal
2310.00	40.90	2.97	27.80	43.80	27.87	54	-26.13	AV	Horizontal
2310.00	50.50	2.97	27.80	43.80	37.47	74	-36.53	Pk	Vertical
2310.00	40.49	2.97	27.80	43.80	27.46	54	-26.54	AV	Vertical
2390.00	52.78	3.14	27.21	43.80	39.33	74	-34.67	Pk	Vertical
2390.00	43.40	3.14	27.21	43.80	29.95	54	-24.05	AV	Vertical
2390.00	55.32	3.14	27.21	43.80	41.87	74	-32.13	Pk	Horizontal
2390.00	44.70	3.14	27.21	43.80	31.25	54	-22.75	AV	Horizontal
2483.50	54.46	3.58	27.70	44.00	41.74	74	-32.26	Pk	Vertical
2483.50	44.22	3.58	27.70	44.00	31.50	54	-22.50	AV	Vertical
2483.50	54.32	3.58	27.70	44.00	41.60	74	-32.40	Pk	Horizontal
2483.50	43.80	3.58	27.70	44.00	31.08	54	-22.92	AV	Horizontal
2500.00	51.41	5.9	27.70	45.10	39.91	74	-34.09	Pk	Vertical
2500.00	40.48	5.9	27.70	45.10	28.98	54	-25.02	AV	Vertical
2500.00	52.11	5.9	27.70	45.10	40.61	74	-33.39	Pk	Horizontal
2500.00	40.29	5.9	27.70	45.10	28.79	54	-25.21	AV	Horizontal

Note: (1) All other emissions more than 20dB below the limit.
(2) Only the worst data is recorded in the report, the data rates (1Mbps for GFSK modulation) test result is the worst

7.3 6DB BANDWIDTH

7.3.1 Applicable Standard

According to FCC Part 15.247(a)(2) and KDB 558074 D01 15.247 Meas Guidance v05r02 Section 8.2.

7.3.2 Conformance Limit

The minimum permissible 6dB bandwidth is 500 kHz.

7.3.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.3.4 Test Setup

Please refer to Section 6.1 of this test report.

7.3.5 Test Procedure

The testing follows Subclause 11.8 of ANSI C63.10

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.

The path loss was compensated to the results for each measurement.

Set to the maximum power setting and enable the EUT transmit continuously.

The EUT was operating in controlled its channel.

Use the following spectrum analyzer settings:

a) Set RBW = shall be in the range of 1% to 5% of the OBW but not less than 100 kHz.

b) Set the VBW $\geq [3 \times \text{RBW}]$.

c) Detector = peak.

d) Trace mode = max-hold.

e) Sweep = No faster than coupled (auto) time.

f) Allow the trace to stabilize.

g) Measure the maximum width of the emission by placing two markers, one at the lowest frequency and the other at the highest frequency of the envelope of the spectral display, such that each marker is at or slightly below the “-6 dB down amplitude”. If a marker is below this “-6 dB down amplitude” value, then it shall be as close as possible to this value.

7.3.6 Test Results

EUT:	Dongle	Model No.:	ACD02-C
Temperature:	25 °C	Relative Humidity:	56%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Kieron Luo

Test data reference attachment.

7.4 DUTY CYCLE

7.4.1 Applicable Standard

According to KDB 558074 D01 15.247 Meas Guidance v05r02s Section 6.

7.4.2 Conformance Limit

No limit requirement.

7.4.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.4.4 Test Setup

Please refer to Section 6.1 of this test report.

7.4.5 Test Procedure

The zero-span mode on a spectrum analyzer or EMI receiver if the response time and spacing between bins on the sweep are sufficient to permit accurate measurements of the on and off times of the transmitted signal. Set the center frequency of the instrument to the center frequency of the transmission. Set $RBW \geq OBW$ if possible; otherwise, set RBW to the largest available value. Set $VBW \geq RBW$. Set detector = peak or average. The zero-span measurement method shall not be used unless both RBW and VBW are $> 50/T$ and the number of sweep points across duration T exceeds 100. (For example, if VBW and/or RBW are limited to 3 MHz, then the zero-span method of measuring duty cycle shall not be used if $T \leq 16.7$ microseconds.)

The transmitter output is connected to the Spectrum Analyzer. We tested according to the zero-span measurement method, 6.0)b) in KDB 558074

The largest available value of RBW is 8 MHz and VBW is 50 MHz. The zero-span method of measuring duty cycle shall not be used if $T \leq 6.25$ microseconds. ($50/6.25 = 8$)

The zero-span method was used because all measured T data are > 6.25 microseconds and both RBW and VBW are $> 50/T$.

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.

The path loss was compensated to the results for each measurement.

Set to the maximum power setting and enable the EUT transmit continuously.

The EUT was operating in controlled its channel.

Use the following spectrum analyzer settings:

Span = Zero Span

RBW = 10MHz(the largest available value)

VBW = 10MHz ($\geq$ RBW)

Number of points in Sweep > 100

Detector function = peak

Trace = Clear write

Measure T_{total} and T_{on}

Calculate Duty Cycle = T_{on} / T_{total}

7.4.6 Test Results

EUT:	Dongle	Model No.:	ACD02-C
Temperature:	25 °C	Relative Humidity:	56%
Test Mode:	N/A	Test By:	N/A

Test data reference attachment.

7.5 PEAK OUTPUT POWER

7.5.1 Applicable Standard

According to FCC Part 15.247(b)(3) and KDB 558074 D01 15.247 Meas Guidance v05r02 Section 8.3.1.

7.5.2 Conformance Limit

The maximum peak conducted output power of the intentional radiator for systems using digital modulation in the 2400 - 2483.5 MHz bands shall not exceed: 1 Watt (30dBm). If transmitting antenna of directional gain greater than 6dBi is used, the peak output power from the intentional radiator shall be reduced below the above stated value by the amount in dB that the directional gain of the antenna exceeds 6 dBi. In case of point-to-point operation, the limit has to be reduced by 1dB for every 3dB that the directional gain of the antenna exceeds 6dBi.

7.5.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.5.4 Test Setup

Please refer to Section 6.1 of this test report.

7.5.5 Test Procedure

The testing follows Subclause 11.9.1.1 of ANSI C63.10

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.

The path loss was compensated to the results for each measurement.

Set to the maximum power setting and enable the EUT transmit continuously.

The EUT was operating in controlled its channel.

Use the following spectrum analyzer settings:

Set the RBW $\geq$ DTS bandwidth.

Set VBW $= 3 \times$ RBW.

Set the span $\geq 3 \times$ RBW

Set Sweep time = auto couple.

Set Detector = peak.

Set Trace mode = max hold.

Allow trace to fully stabilize.

Use peak marker function to determine the peak amplitude level.

7.5.6 Test Results

EUT:	Dongle	Model No.:	ACD02-C
Temperature:	20 °C	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Kieron Luo

Test data reference attachment.

7.6 POWER SPECTRAL DENSITY

7.6.1 Applicable Standard

According to FCC Part 15.247(e) and KDB 558074 D01 15.247 Meas Guidance v05r02 Section 8.4.

7.6.2 Conformance Limit

The transmitter power spectral density conducted from the transmitter to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

7.6.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.6.4 Test Setup

Please refer to Section 6.1 of this test report.

7.6.5 Test Procedure

The testing follows Measurement Procedure Subclause 11.10.2 of ANSI C63.10
This procedure shall be used if maximum peak conducted output power was used to demonstrate compliance, and is optional if the maximum conducted (average) output power was used to demonstrate compliance.

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.

The path loss was compensated to the results for each measurement.

Set to the maximum power setting and enable the EUT transmit continuously.

The EUT was operating in controlled its channel.

- a) Set analyzer center frequency to DTS channel center frequency.
- b) Set the span to 1.5*DTS bandwidth.
- c) Set the RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
- d) Set the VBW $\geq 3 \text{ RBW}$.
- e) Detector = peak.
- f) Sweep time = auto couple.
- g) Trace mode = max hold.
- h) Allow trace to fully stabilize.
- i) Use the peak marker function to determine the maximum amplitude level within the RBW.
- j) If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

7.6.6 Test Results

EUT:	Dongle	Model No.:	ACD02-C
Temperature:	25 °C	Relative Humidity:	56%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Kieron Luo

Test data reference attachment.

7.7 CONDUCTED BAND EDGE MEASUREMENT

7.7.1 Applicable Standard

According to FCC Part 15.247(d) and KDB 558074 D01 15.247 Meas Guidance v05r02 Section 8.7.

7.7.2 Conformance Limit

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.

7.7.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.7.4 Test Setup

Please refer to Section 6.1 of this test report.

7.7.5 Test Procedure

The testing follows FCC KDB 558074 D01 15.247 Meas Guidance v05r02 Section 8.7.

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.

The path loss was compensated to the results for each measurement.

Set to the maximum power setting and enable the EUT transmit continuously.

The EUT was operating in controlled its channel.

Set RBW to 100 kHz and VBW of spectrum analyzer to 300 kHz with a convenient frequency span including 100 kHz bandwidth from band edge.

Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.

Repeat above procedures until all measured frequencies were complete.

7.7.6 Test Results

EUT:	Dongle	Model No.:	ACD02-C
Temperature:	25 °C	Relative Humidity:	56%
Test Mode:	Mode2/Mode4	Test By:	Kieron Luo

Test data reference attachment.

7.8 SPURIOUS RF CONDUCTED EMISSIONS

7.8.1 Conformance Limit

1. Below -20dB of the highest emission level in operating band.
2. Fall in the restricted bands listed in section 15.205. The maximum permitted average field strength is listed in section 15.209.

7.8.2 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.8.3 Test Setup

Please refer to Section 6.1 of this test report.

7.8.4 Test Procedure

The Spurious RF conducted emissions compliance of RF radiated emission should be measured by following the guidance in ANSI C63.10-2020+Cor.1-2023 with respect to maximizing the emission by rotating the EUT, measuring the emission while the EUT is situated in three orthogonal planes (if appropriate), adjusting the measurement antenna height and polarization etc. Set RBW=100kHz and VBW= 300KHz to measure the peak field strength , and measure frequency range from 30MHz to 26.5GHz.

7.8.5 Test Results

Remark: The measurement frequency range is from 30MHz to the 10th harmonic of the fundamental frequency. The lowest, middle and highest channels are tested to verify the spurious emissions and bandedge measurement data.

Test data reference attachment.

7.9 ANTENNA APPLICATION

7.9.1 Antenna Requirement

15.203 requirement: For intentional device, according to 15.203: 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.

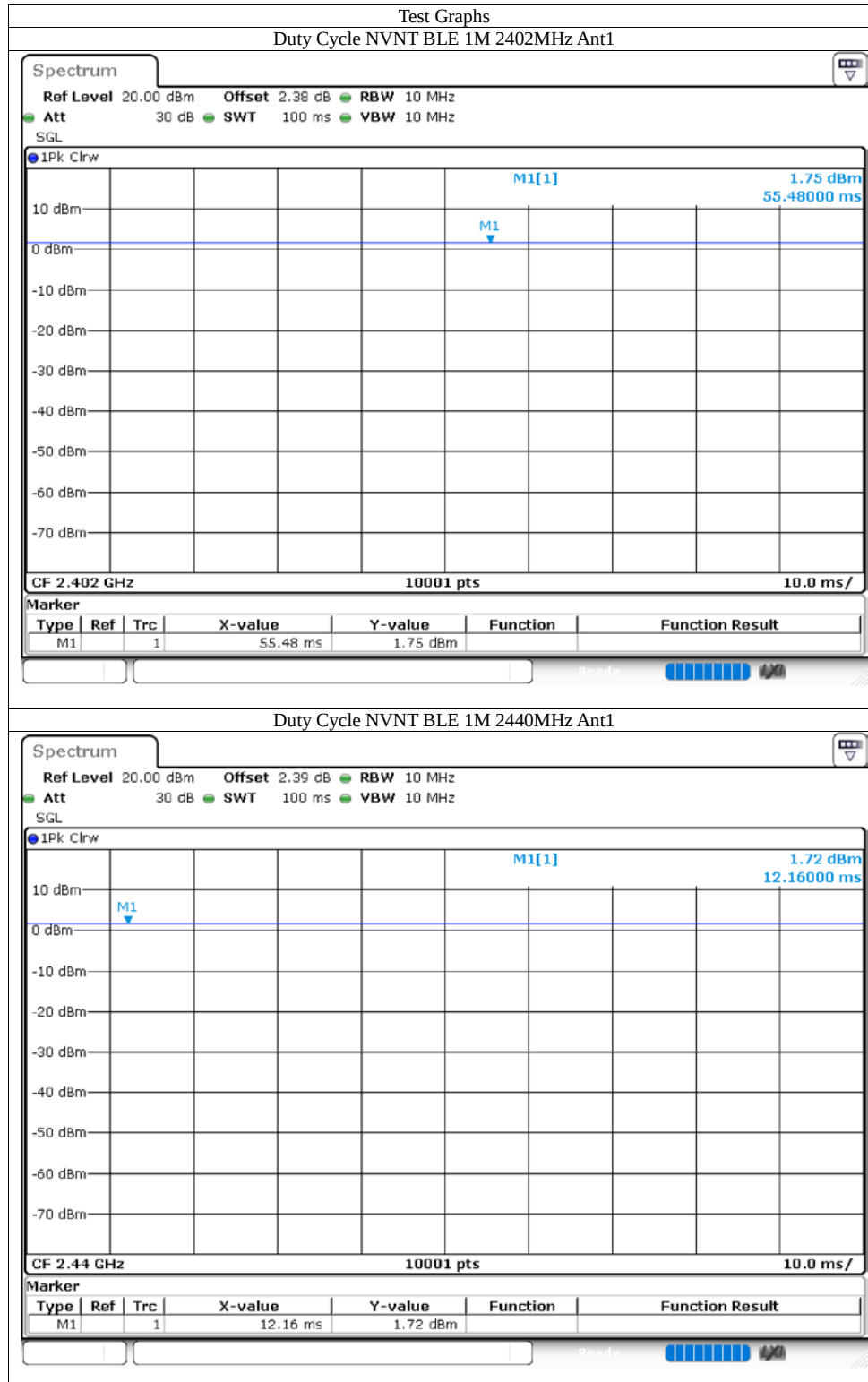
7.9.2 Result

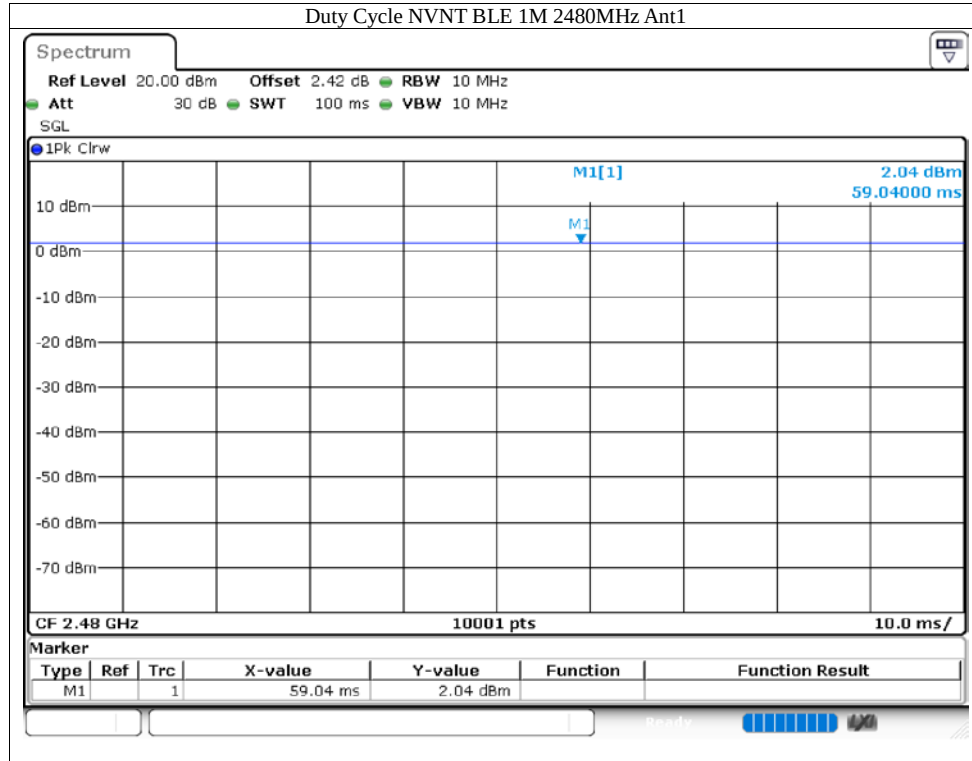
The EUT antenna is permanent attached PCB Antenna (Gain:3.64 dBi). It comply with the standard requirement.

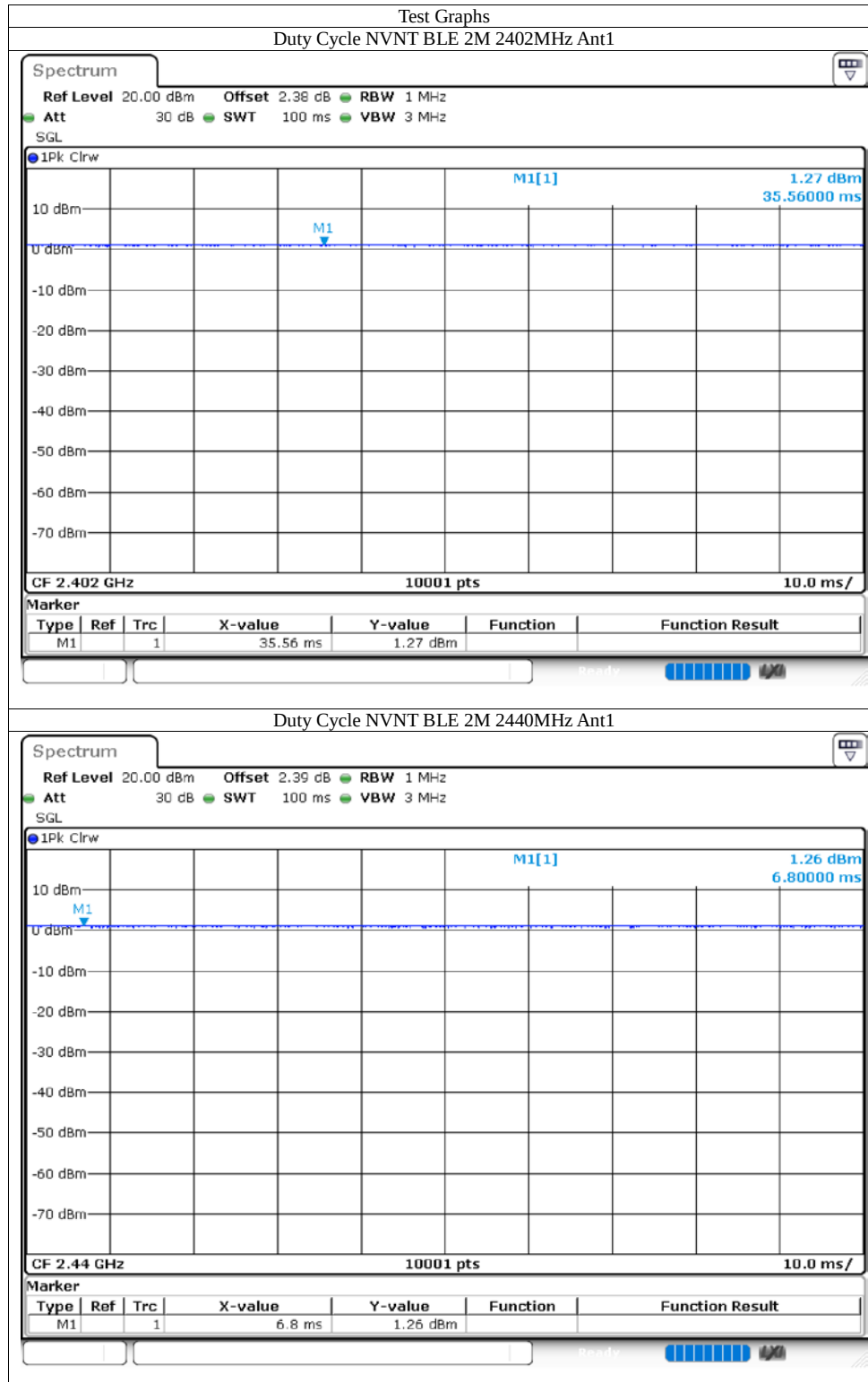
8 TEST RESULTS

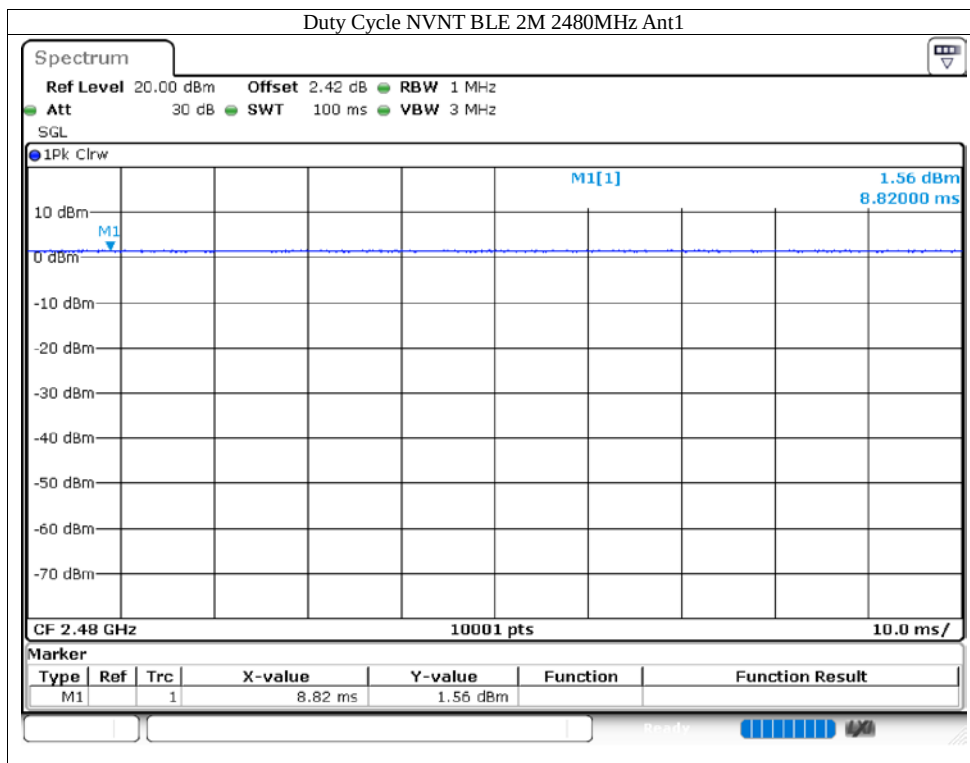
8.1 DUTY CYCLE

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)
NVNT	BLE 1M	2402	Ant1	100	0
NVNT	BLE 1M	2440	Ant1	100	0
NVNT	BLE 1M	2480	Ant1	100	0
NVNT	BLE 2M	2402	Ant1	100	0
NVNT	BLE 2M	2440	Ant1	100	0
NVNT	BLE 2M	2480	Ant1	100	0



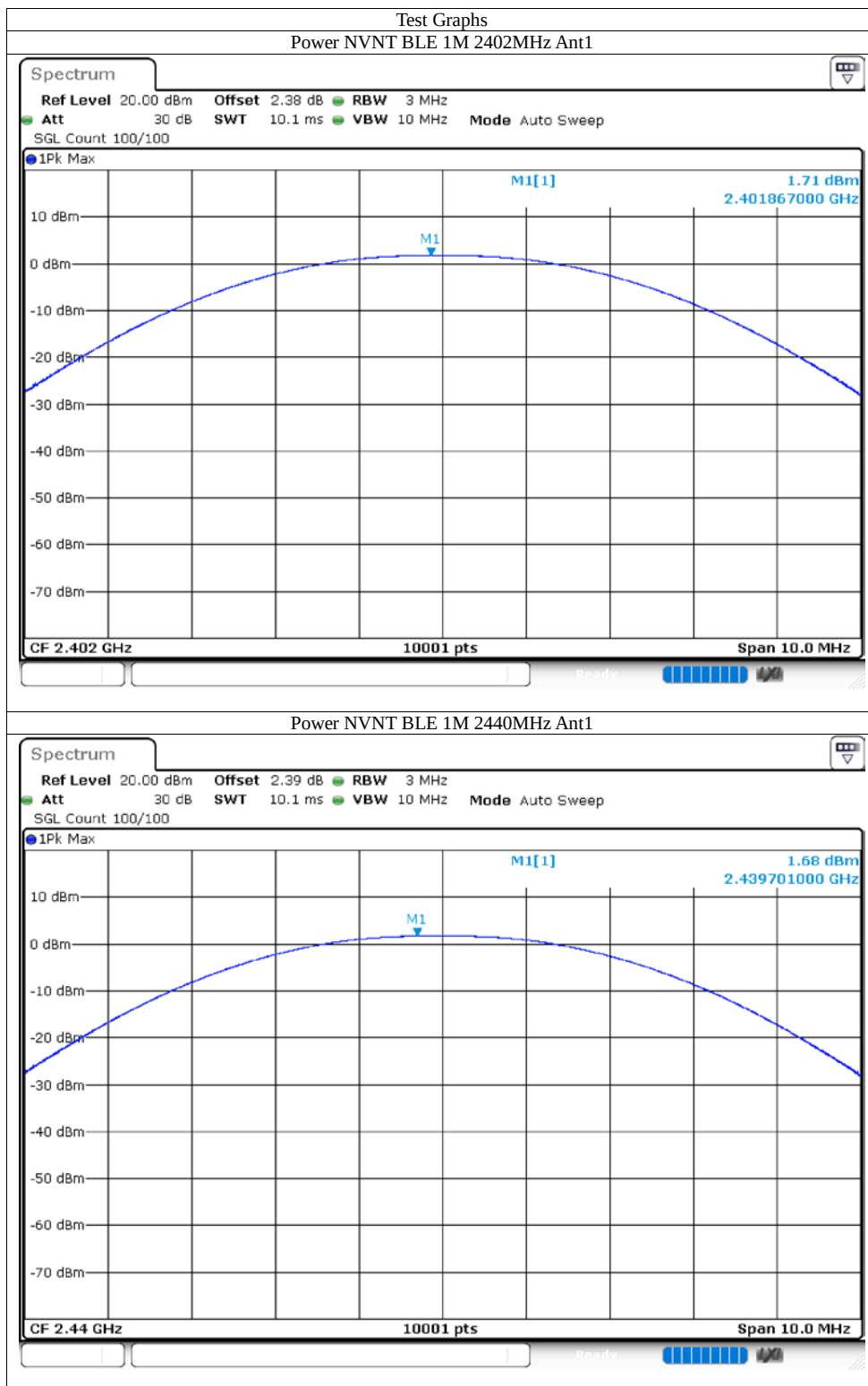


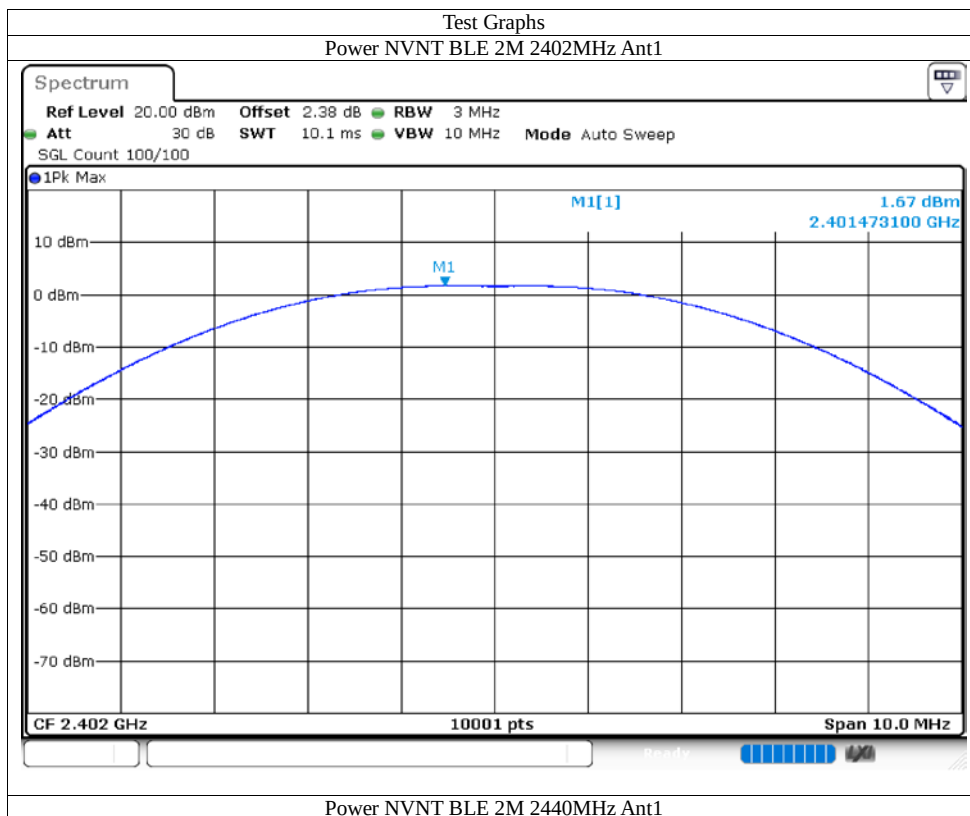
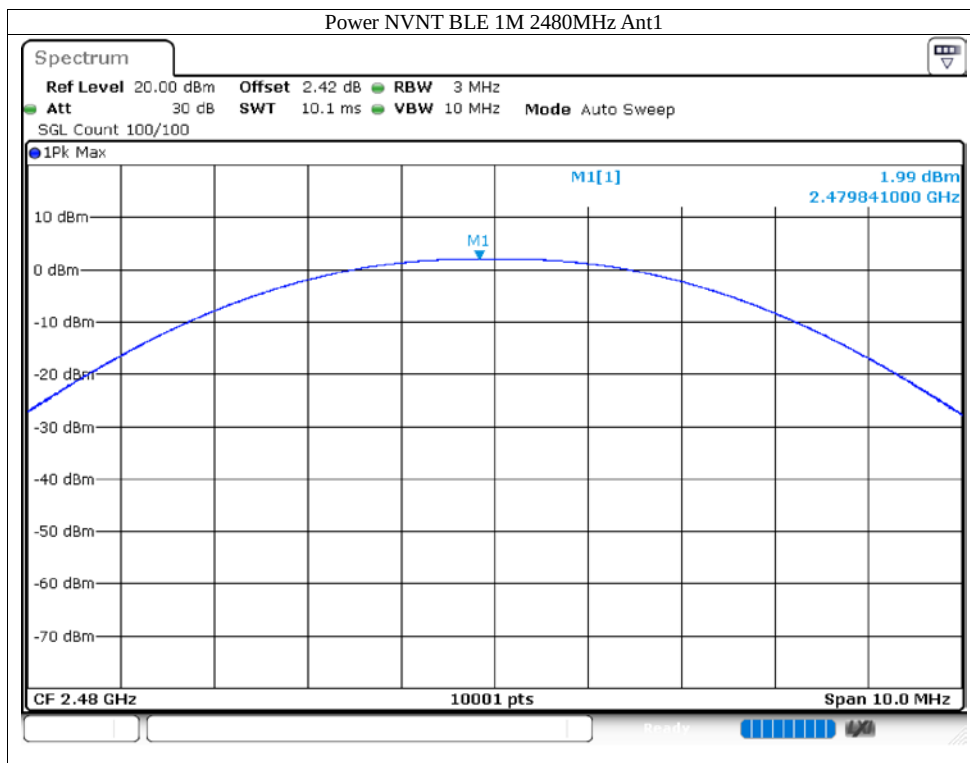


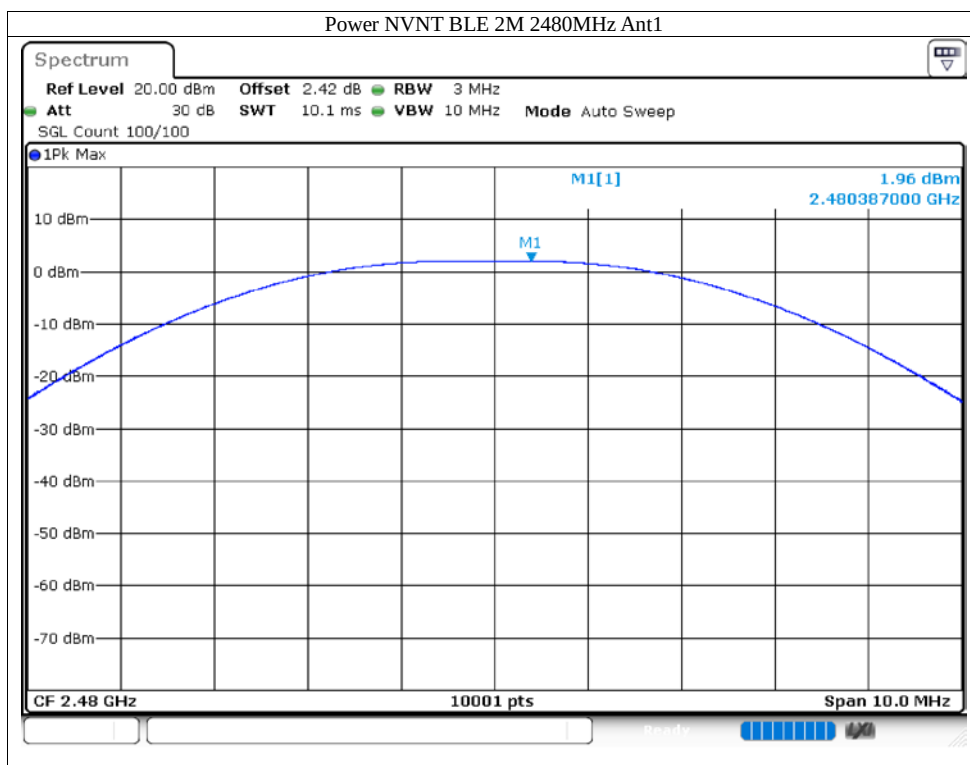
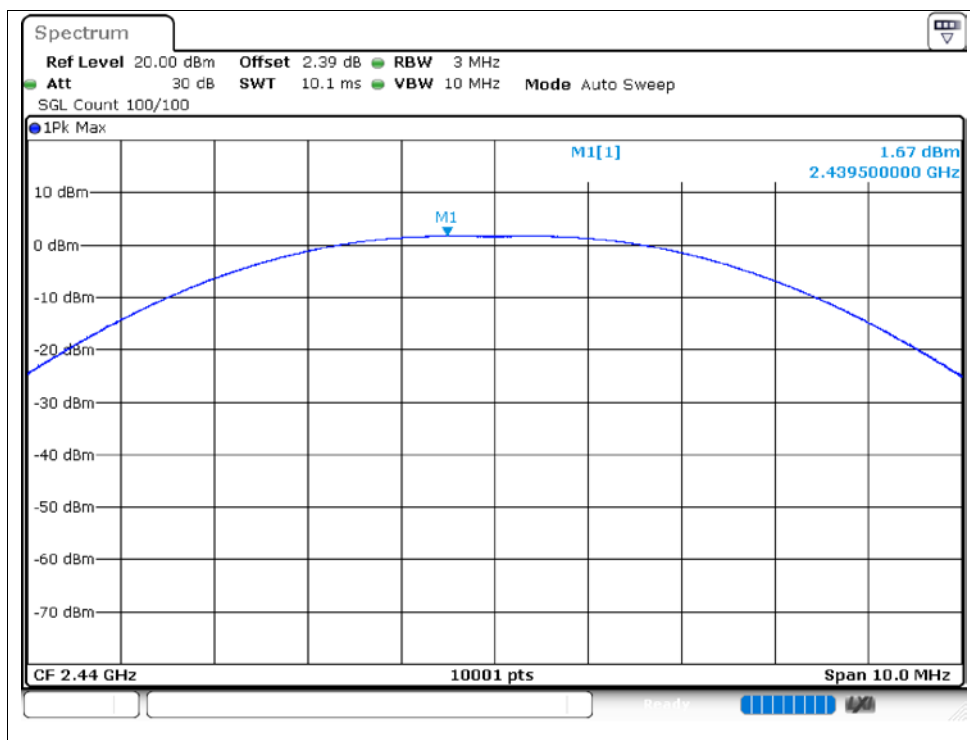


8.2 MAXIMUM CONDUCTED OUTPUT POWER

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE 1M	2402	Ant1	1.71	30	Pass
NVNT	BLE 1M	2440	Ant1	1.68	30	Pass
NVNT	BLE 1M	2480	Ant1	1.99	30	Pass
NVNT	BLE 2M	2402	Ant1	1.67	30	Pass
NVNT	BLE 2M	2440	Ant1	1.67	30	Pass
NVNT	BLE 2M	2480	Ant1	1.96	30	Pass

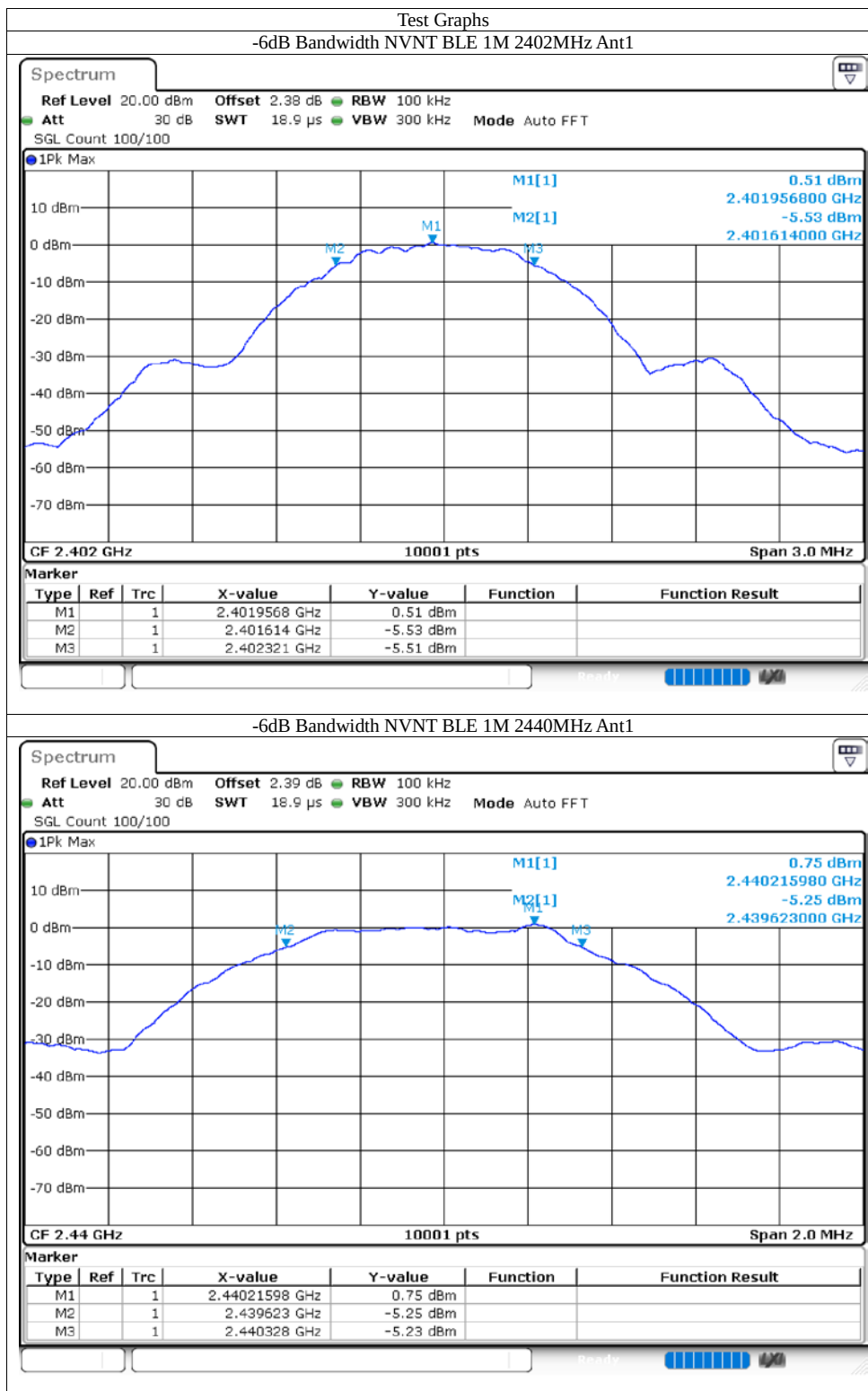


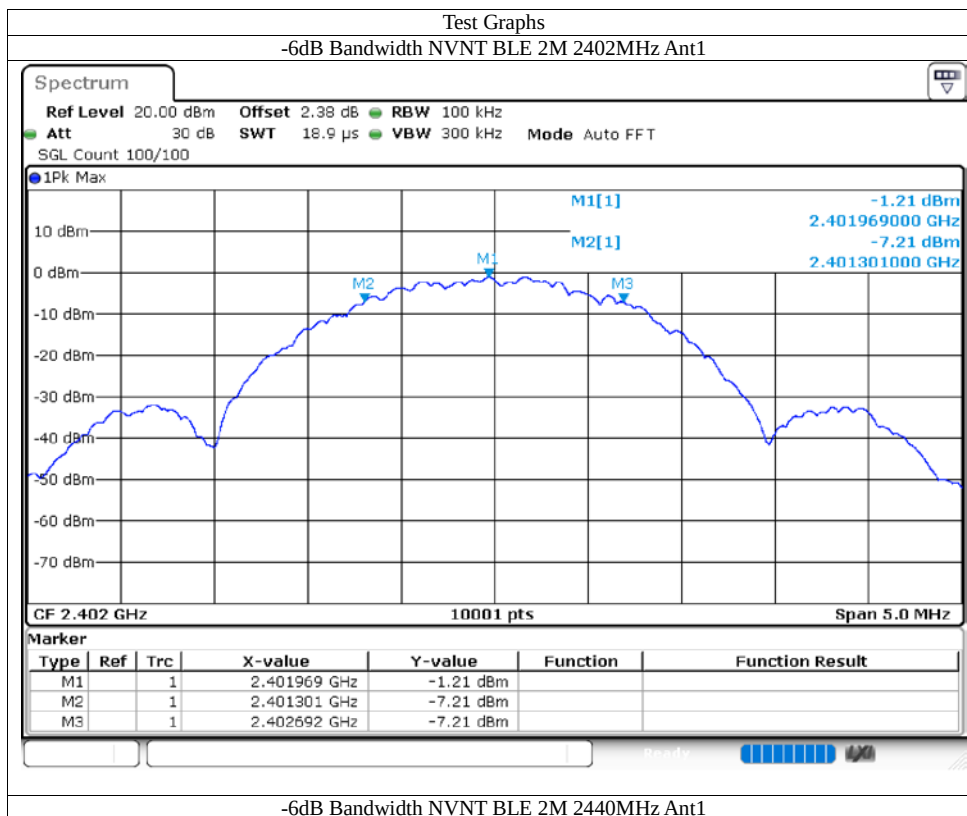
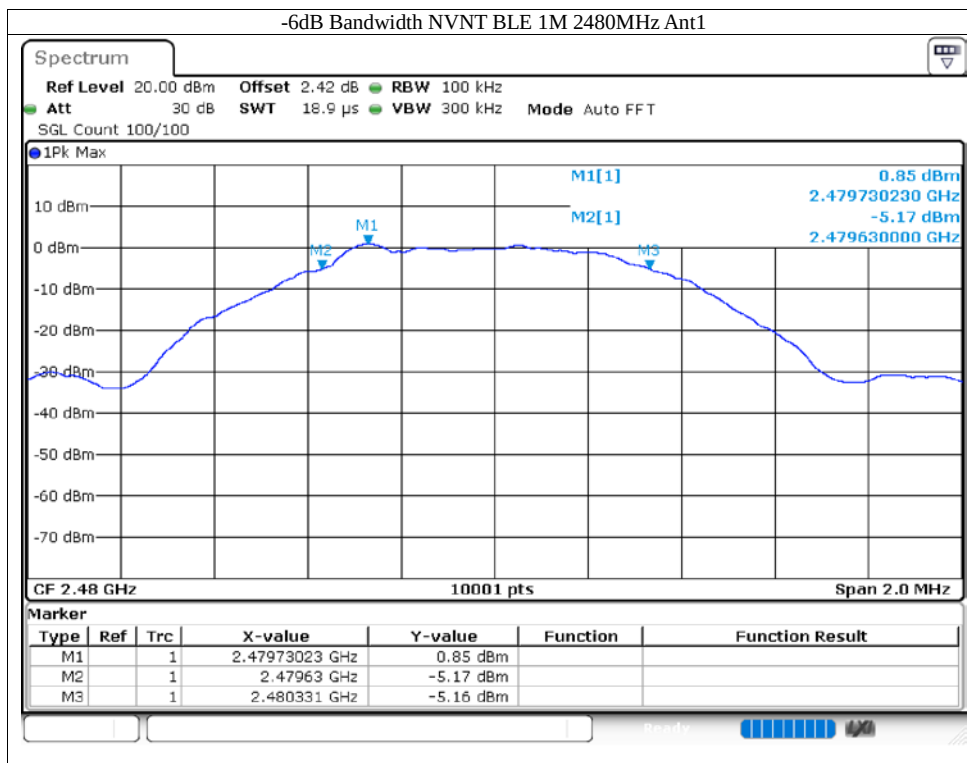


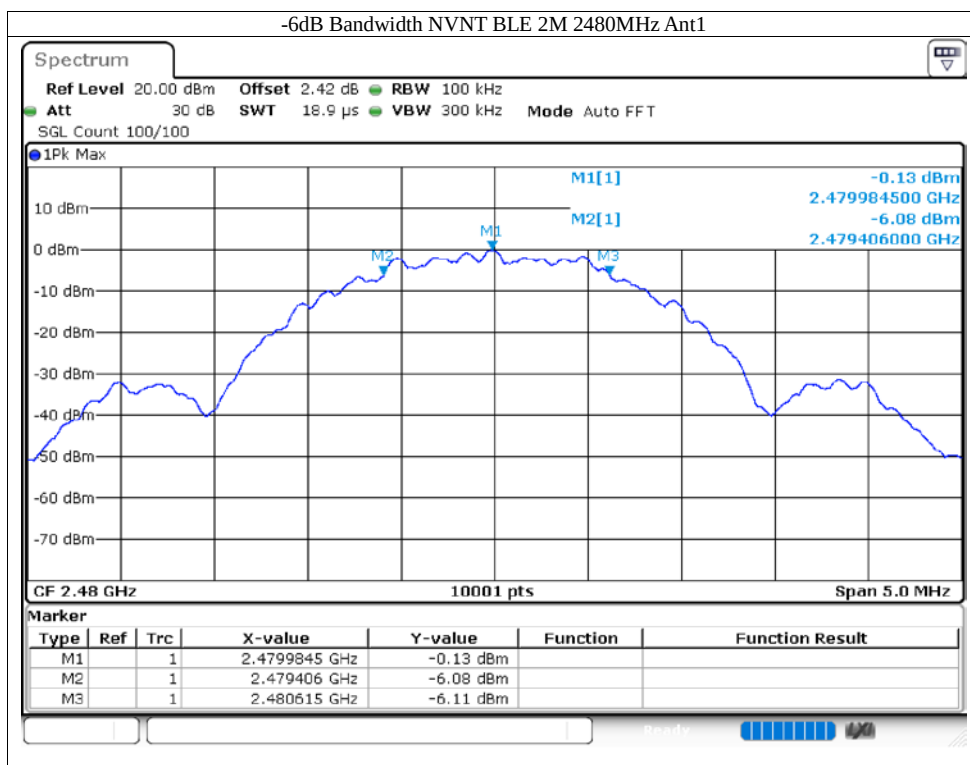
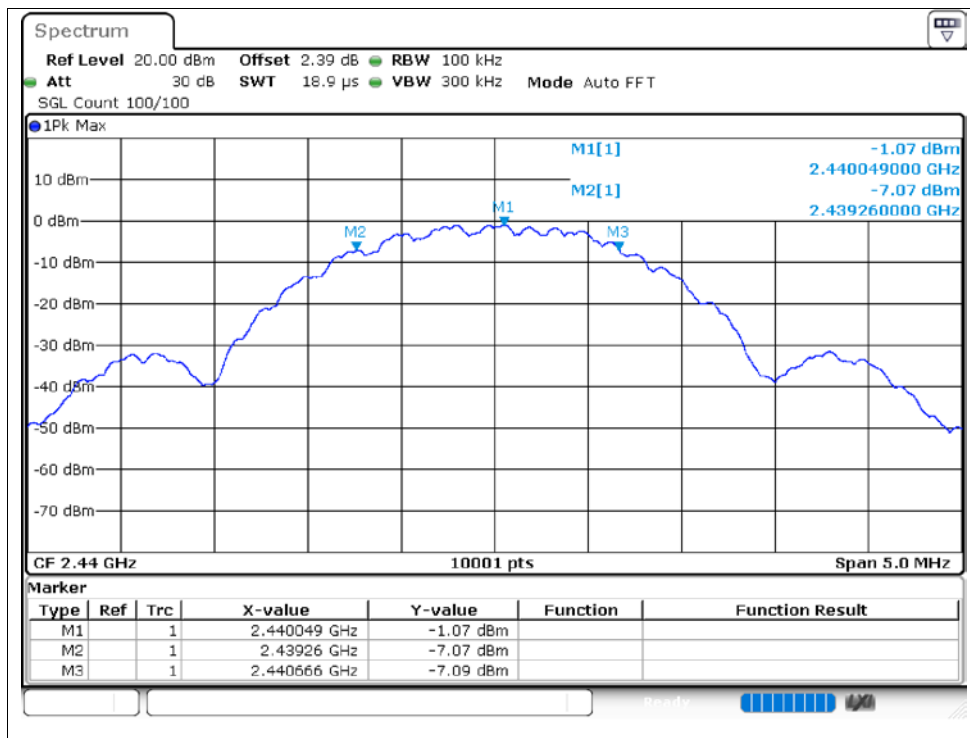


8.3 -6dB BANDWIDTH

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	BLE 1M	2402	Ant1	0.706	0.5	Pass
NVNT	BLE 1M	2440	Ant1	0.706	0.5	Pass
NVNT	BLE 1M	2480	Ant1	0.701	0.5	Pass
NVNT	BLE 2M	2402	Ant1	1.391	0.5	Pass
NVNT	BLE 2M	2440	Ant1	1.406	0.5	Pass
NVNT	BLE 2M	2480	Ant1	1.209	0.5	Pass

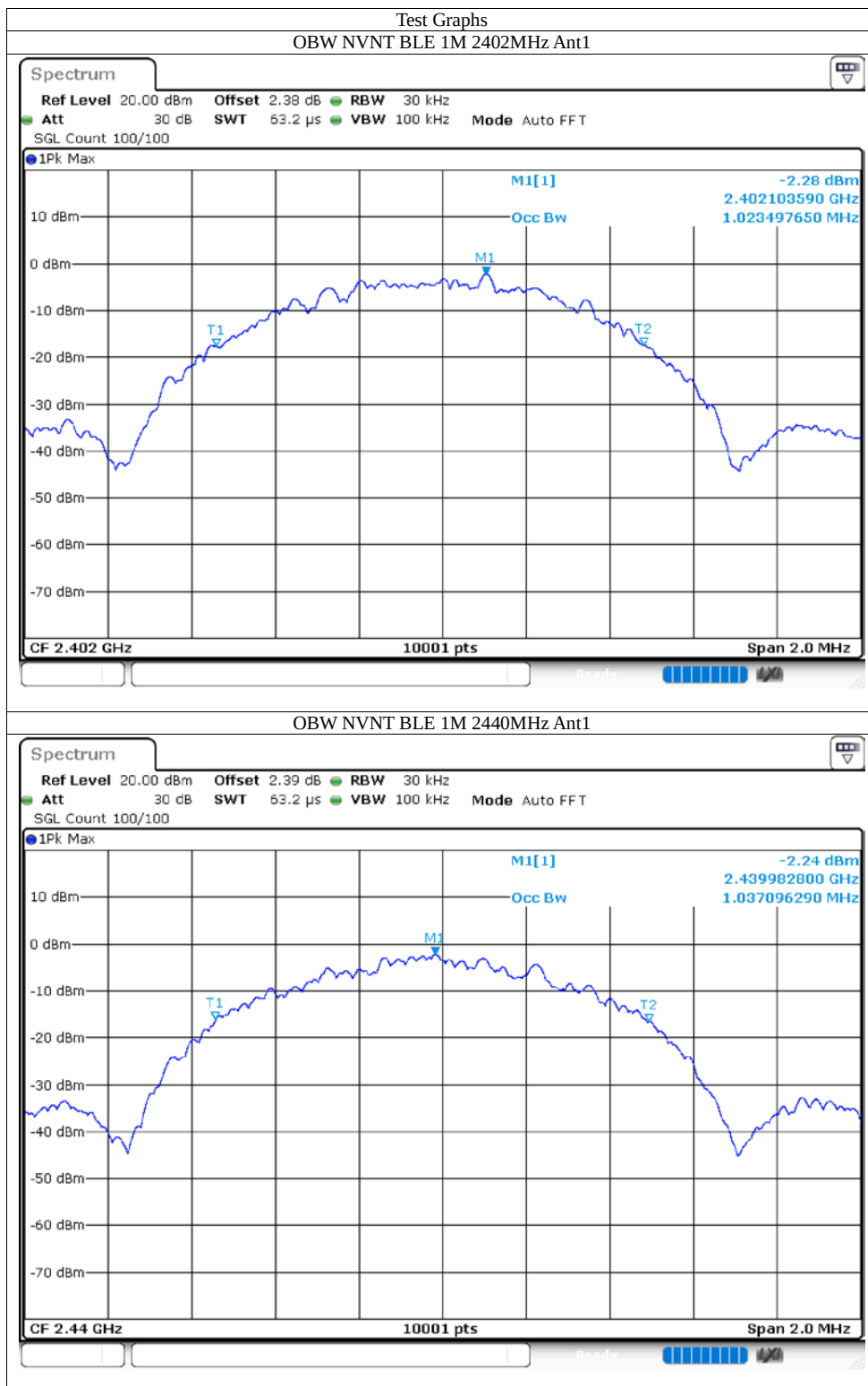


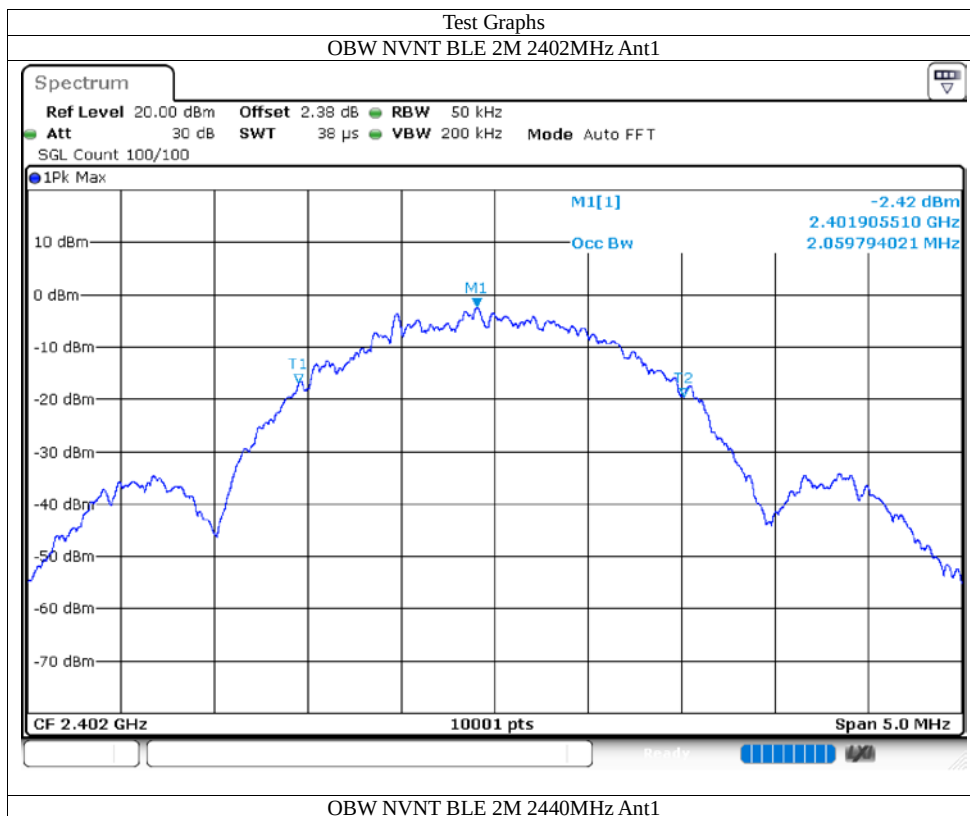
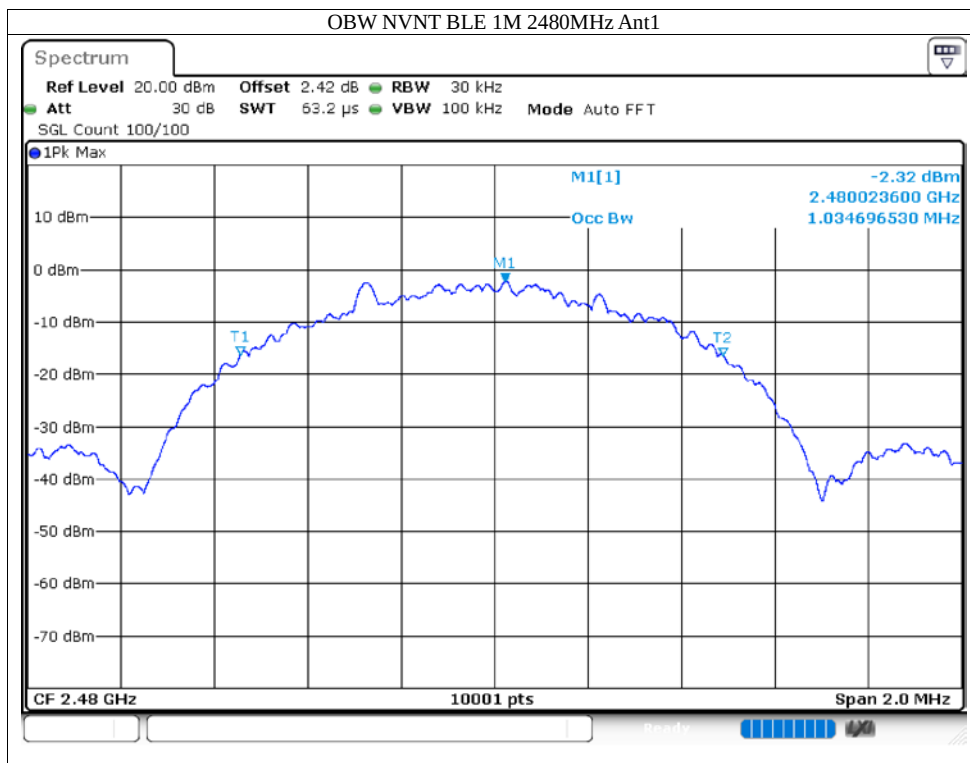


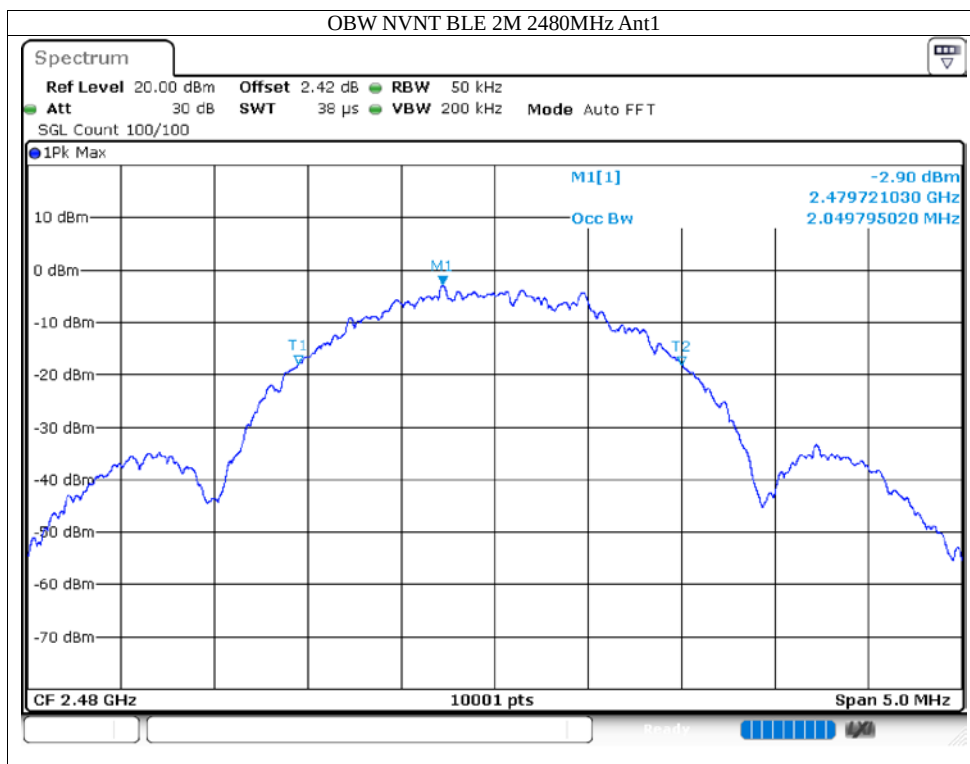
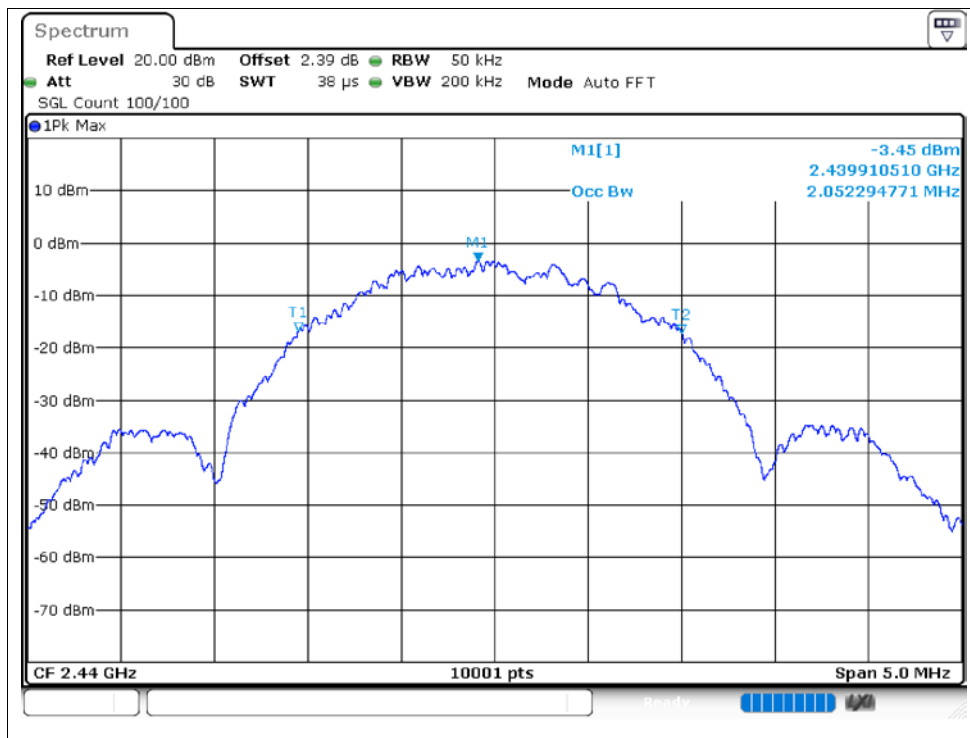


8.4 OCCUPIED CHANNEL BANDWIDTH

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	BLE 1M	2402	Ant1	1.023
NVNT	BLE 1M	2440	Ant1	1.037
NVNT	BLE 1M	2480	Ant1	1.035
NVNT	BLE 2M	2402	Ant1	2.06
NVNT	BLE 2M	2440	Ant1	2.052
NVNT	BLE 2M	2480	Ant1	2.05

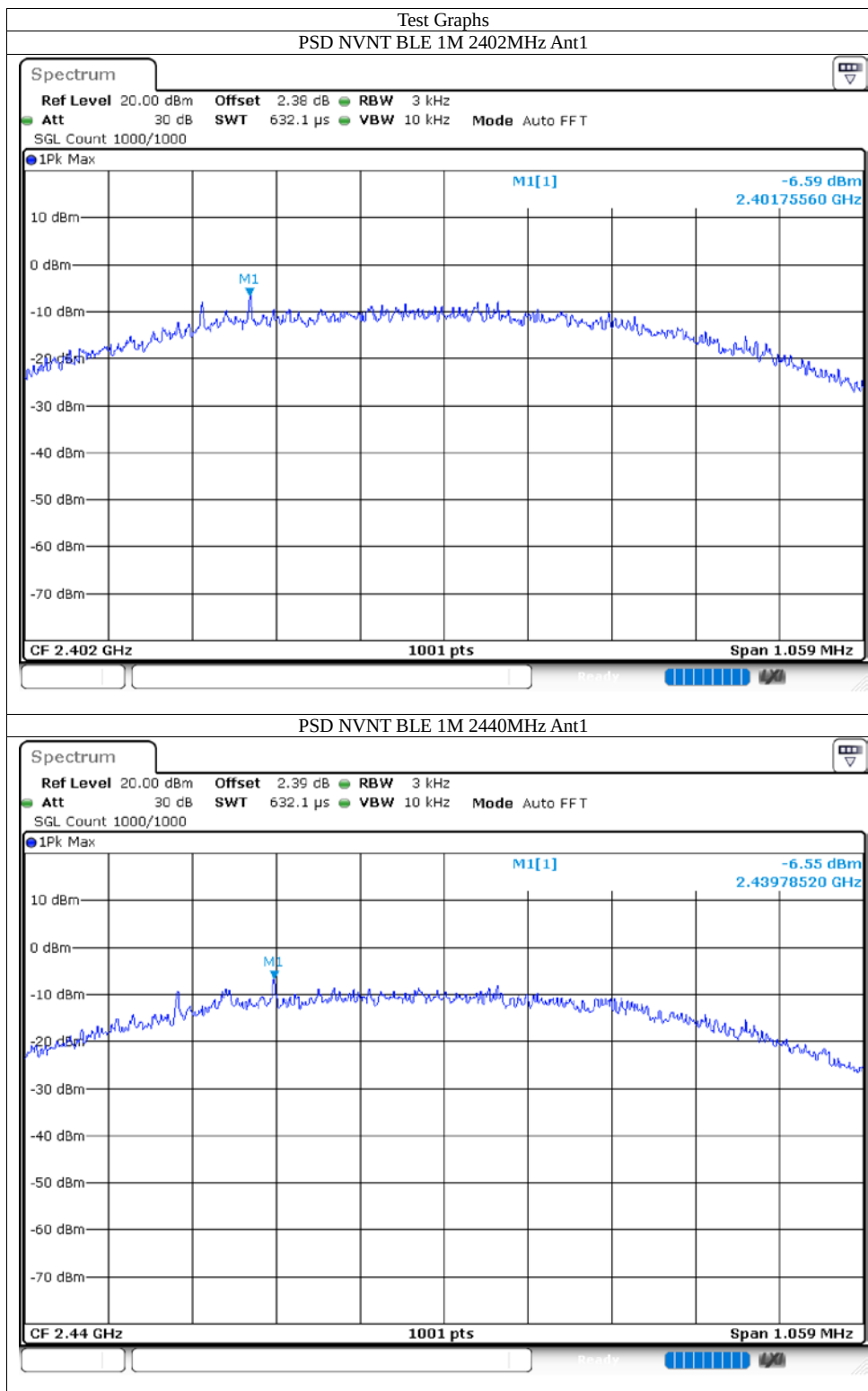


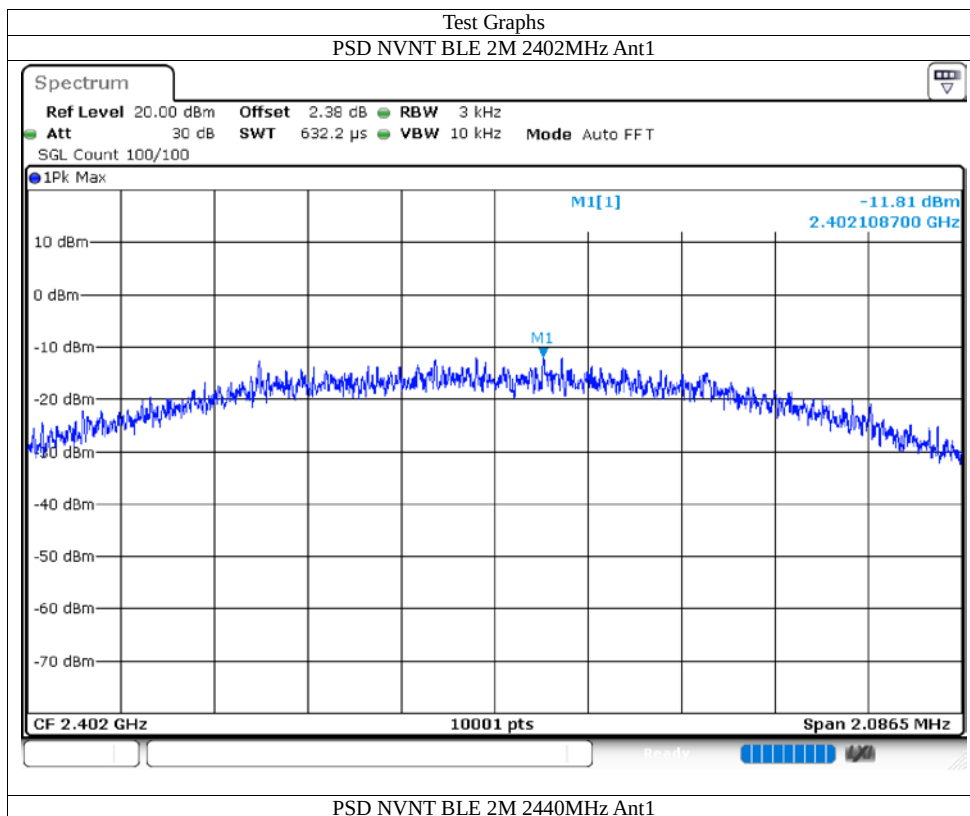
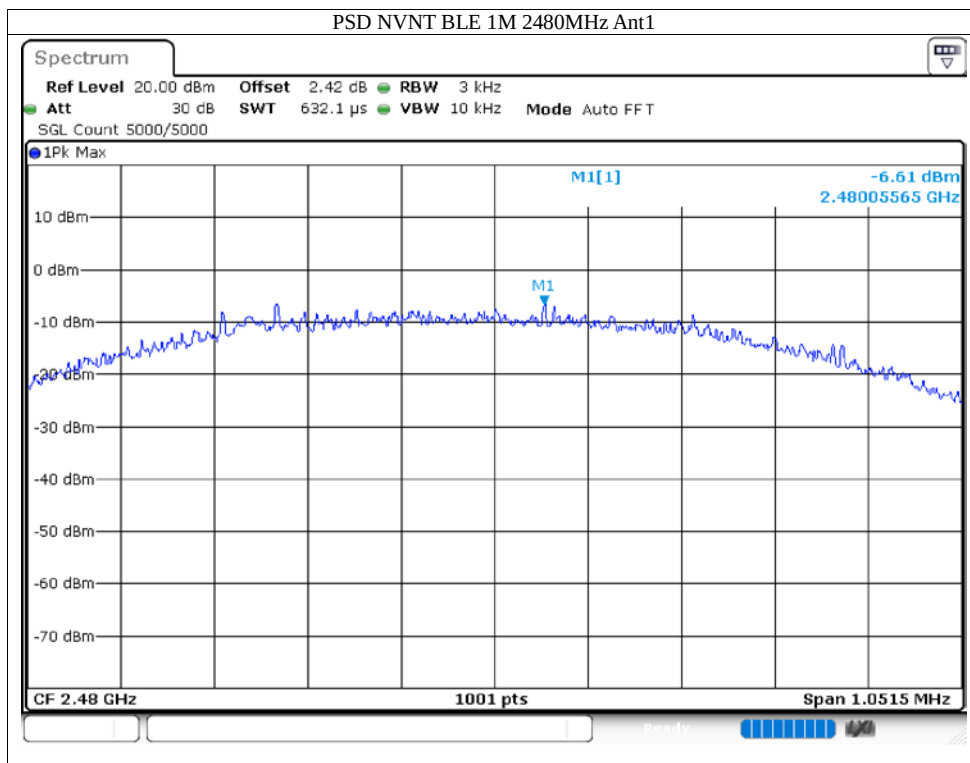


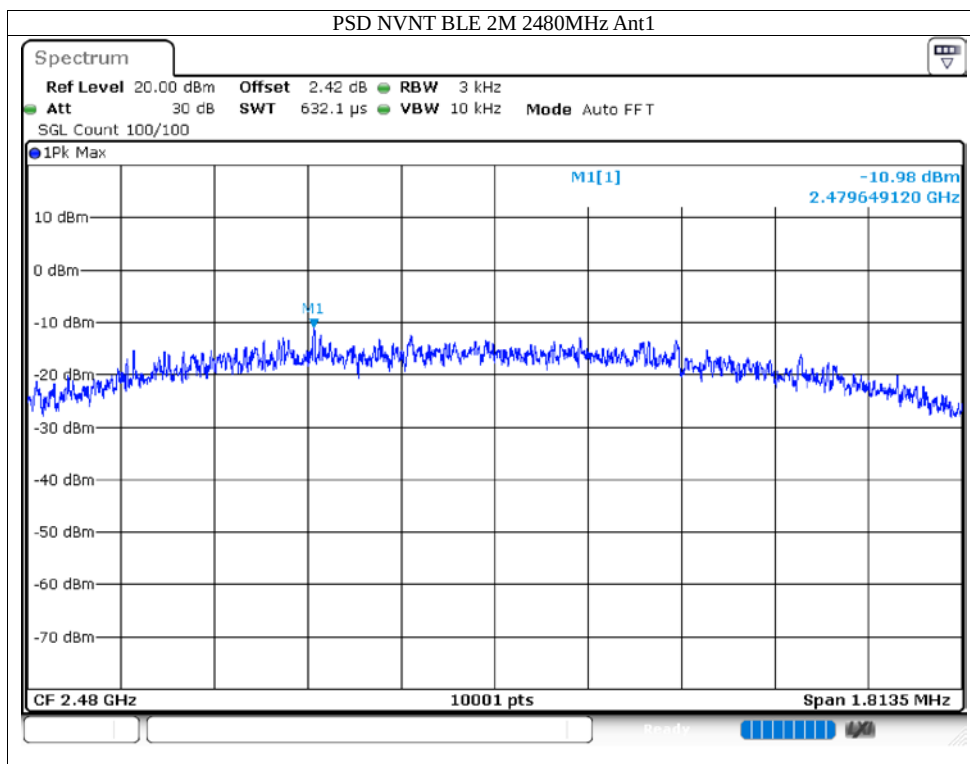
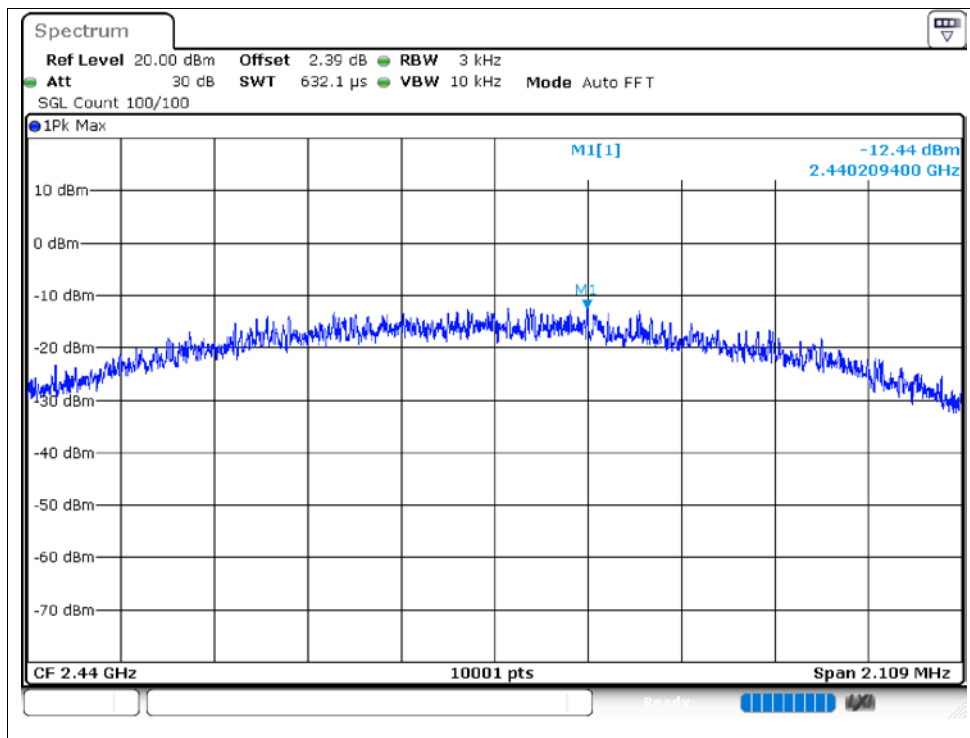


8.5 MAXIMUM POWER SPECTRAL DENSITY LEVEL

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Limit (dBm)	Verdict
NVNT	BLE 1M	2402	Ant1	-6.59	8	Pass
NVNT	BLE 1M	2440	Ant1	-6.55	8	Pass
NVNT	BLE 1M	2480	Ant1	-6.61	8	Pass
NVNT	BLE 2M	2402	Ant1	-11.81	8	Pass
NVNT	BLE 2M	2440	Ant1	-12.44	8	Pass
NVNT	BLE 2M	2480	Ant1	-10.98	8	Pass

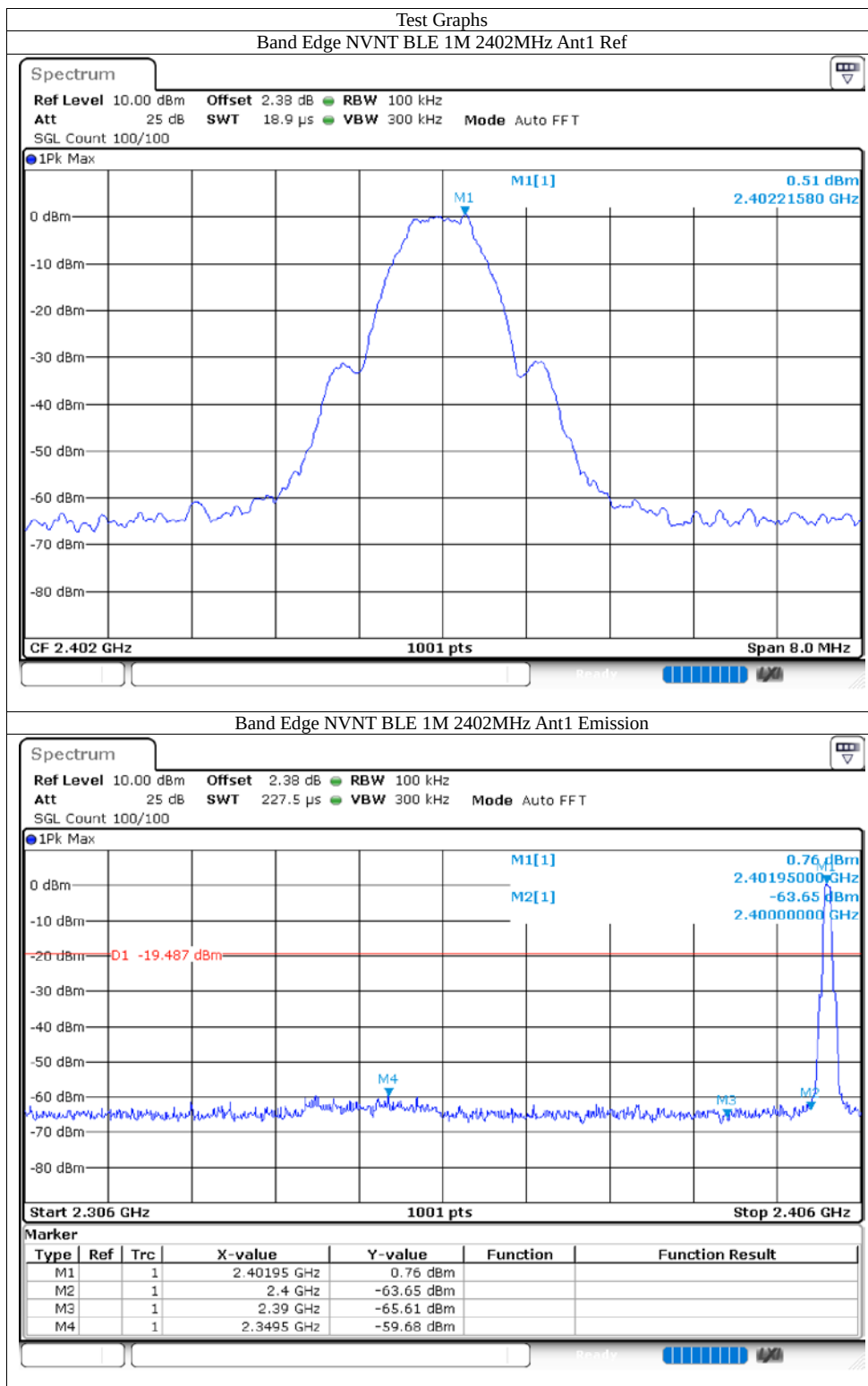


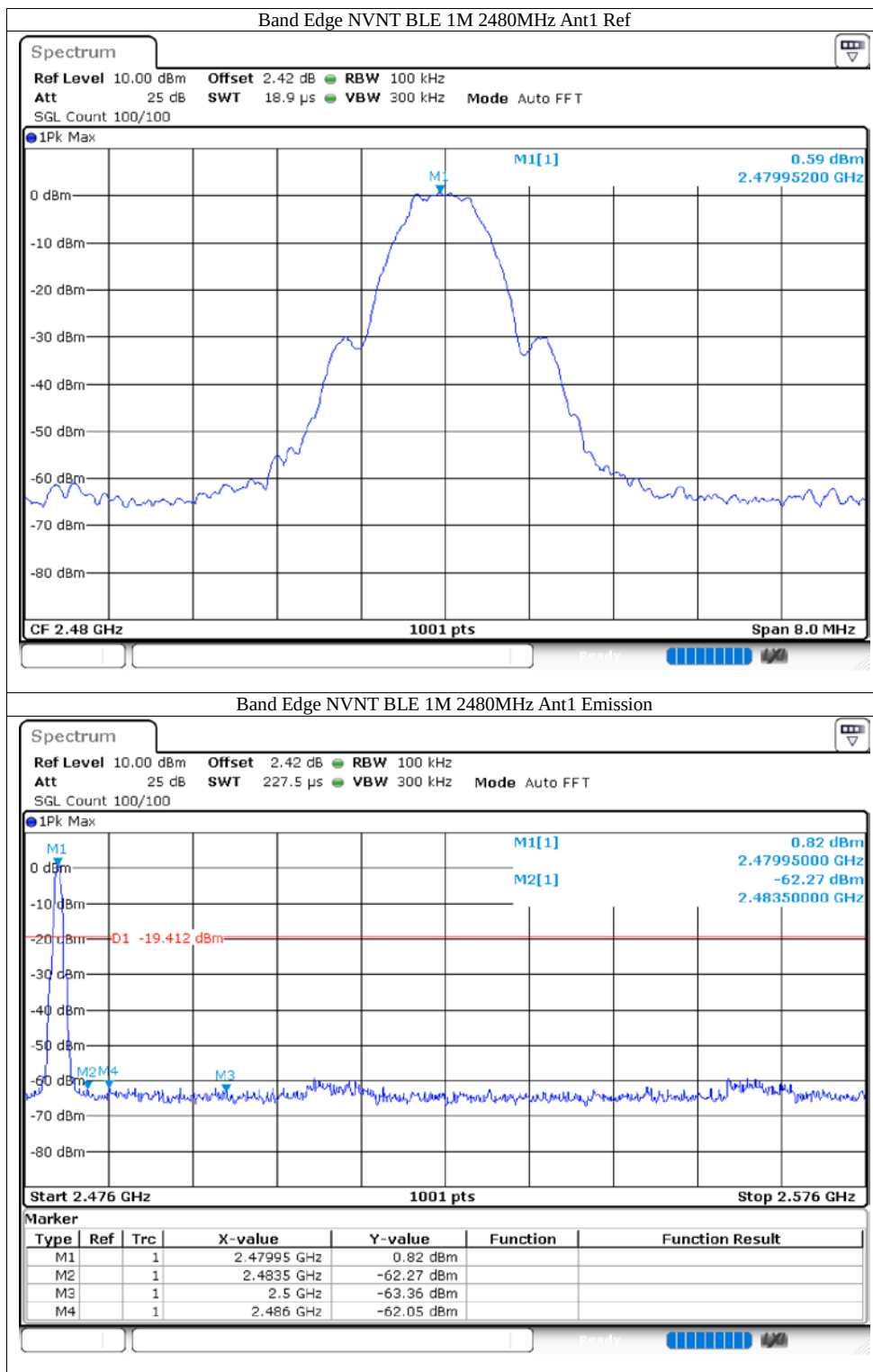


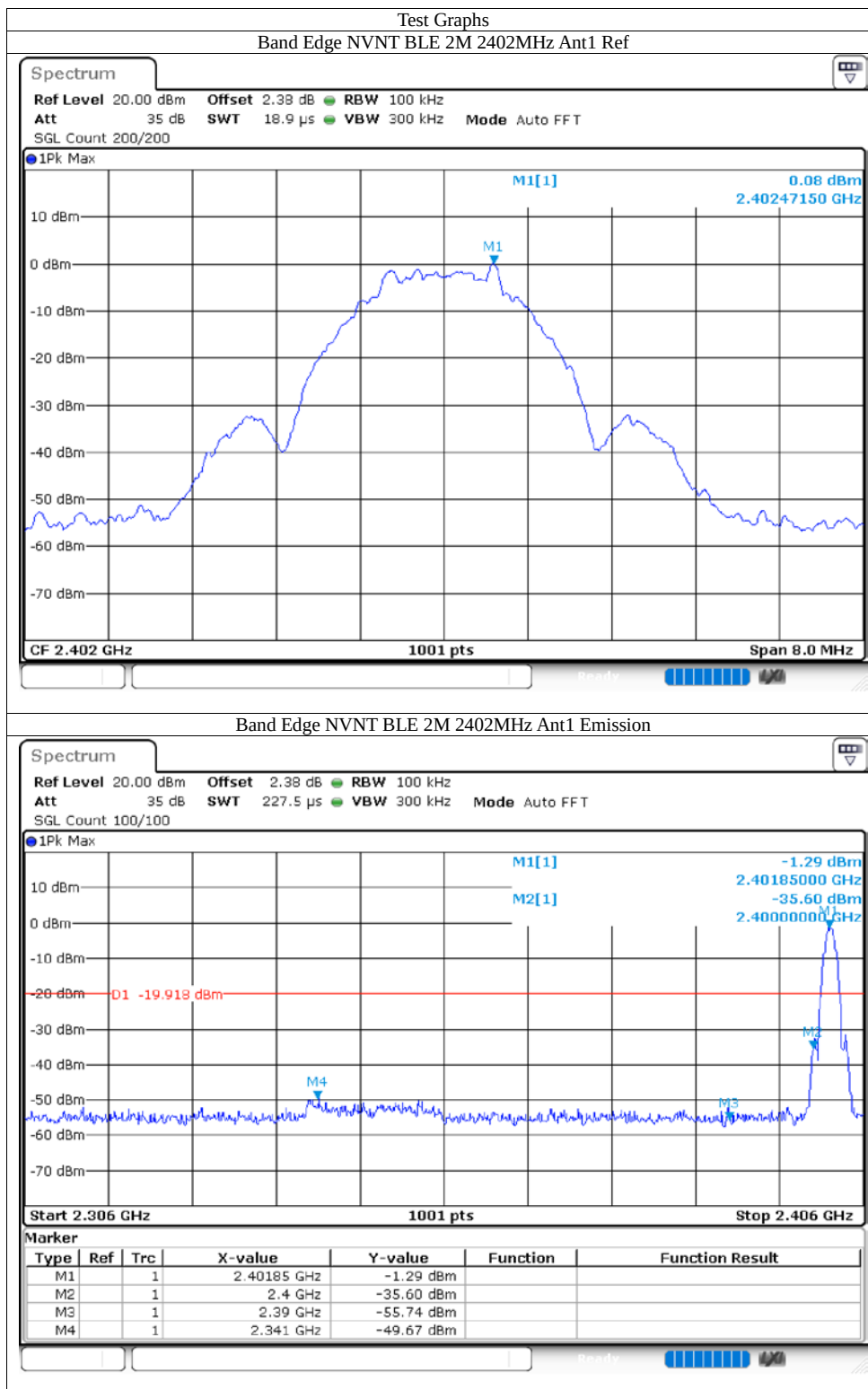


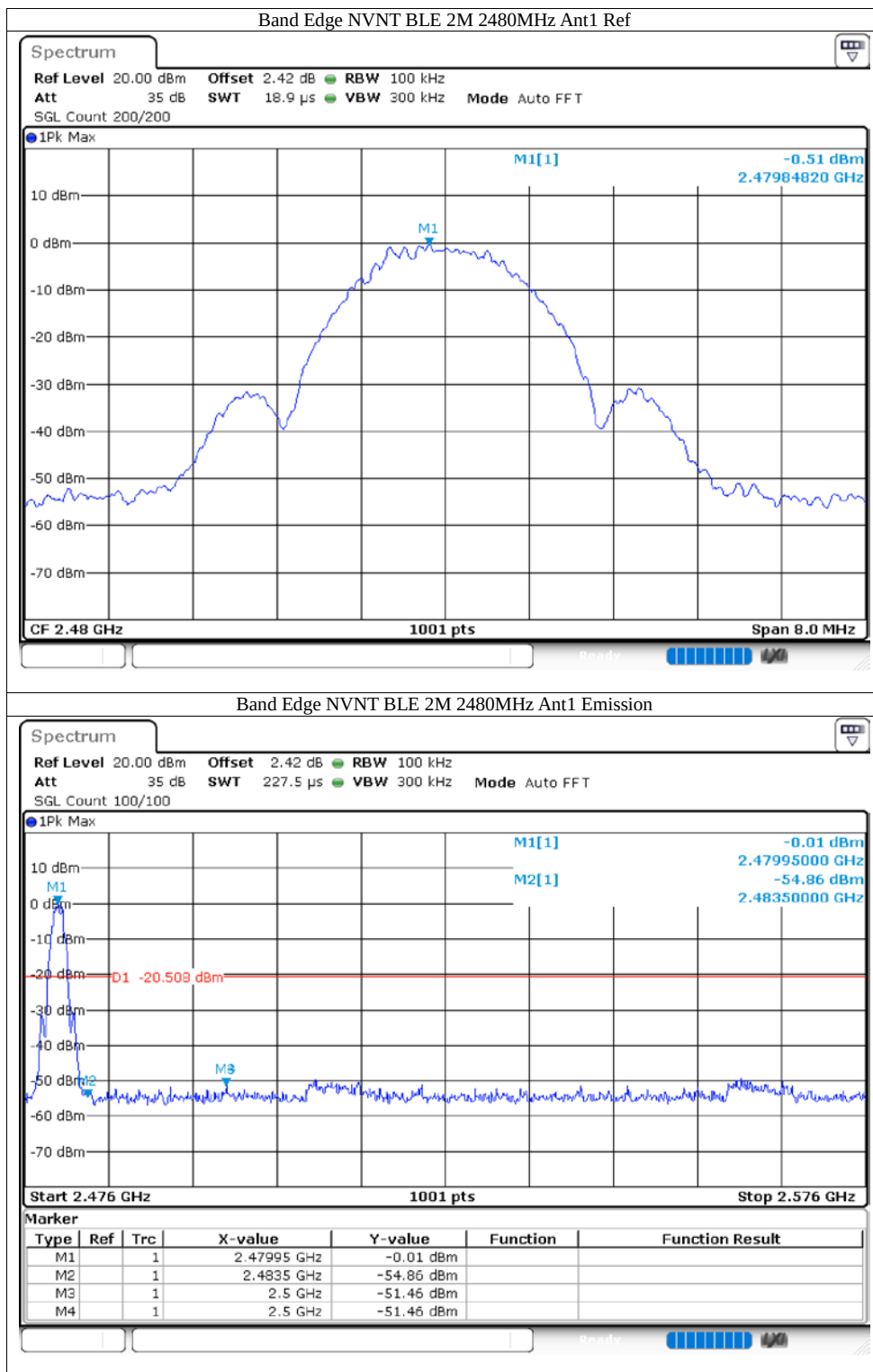
8.6 BAND EDGE

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-60.18	-20	Pass
NVNT	BLE 1M	2480	Ant1	-62.63	-20	Pass
NVNT	BLE 2M	2402	Ant1	-49.74	-20	Pass
NVNT	BLE 2M	2480	Ant1	-50.95	-20	Pass



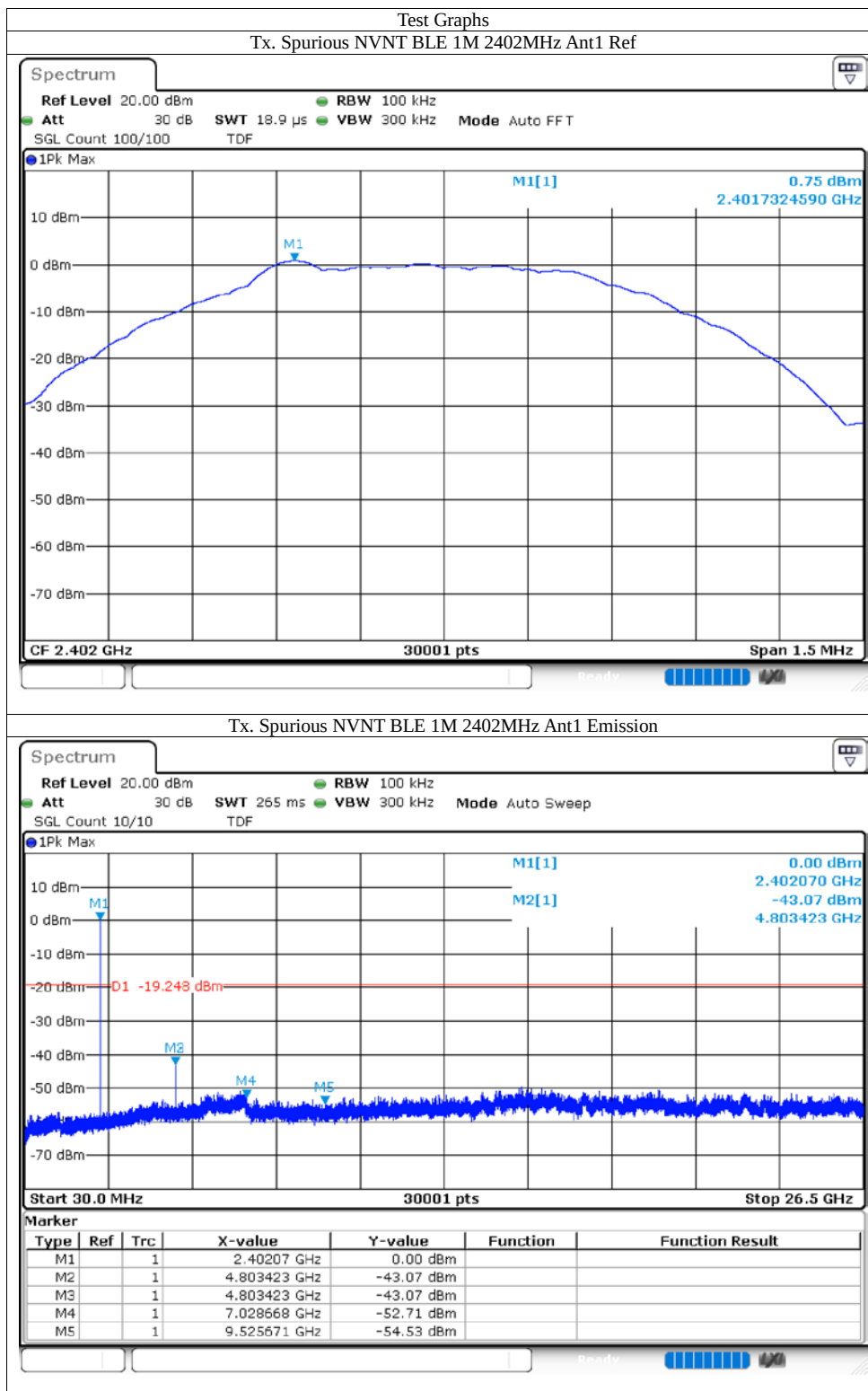


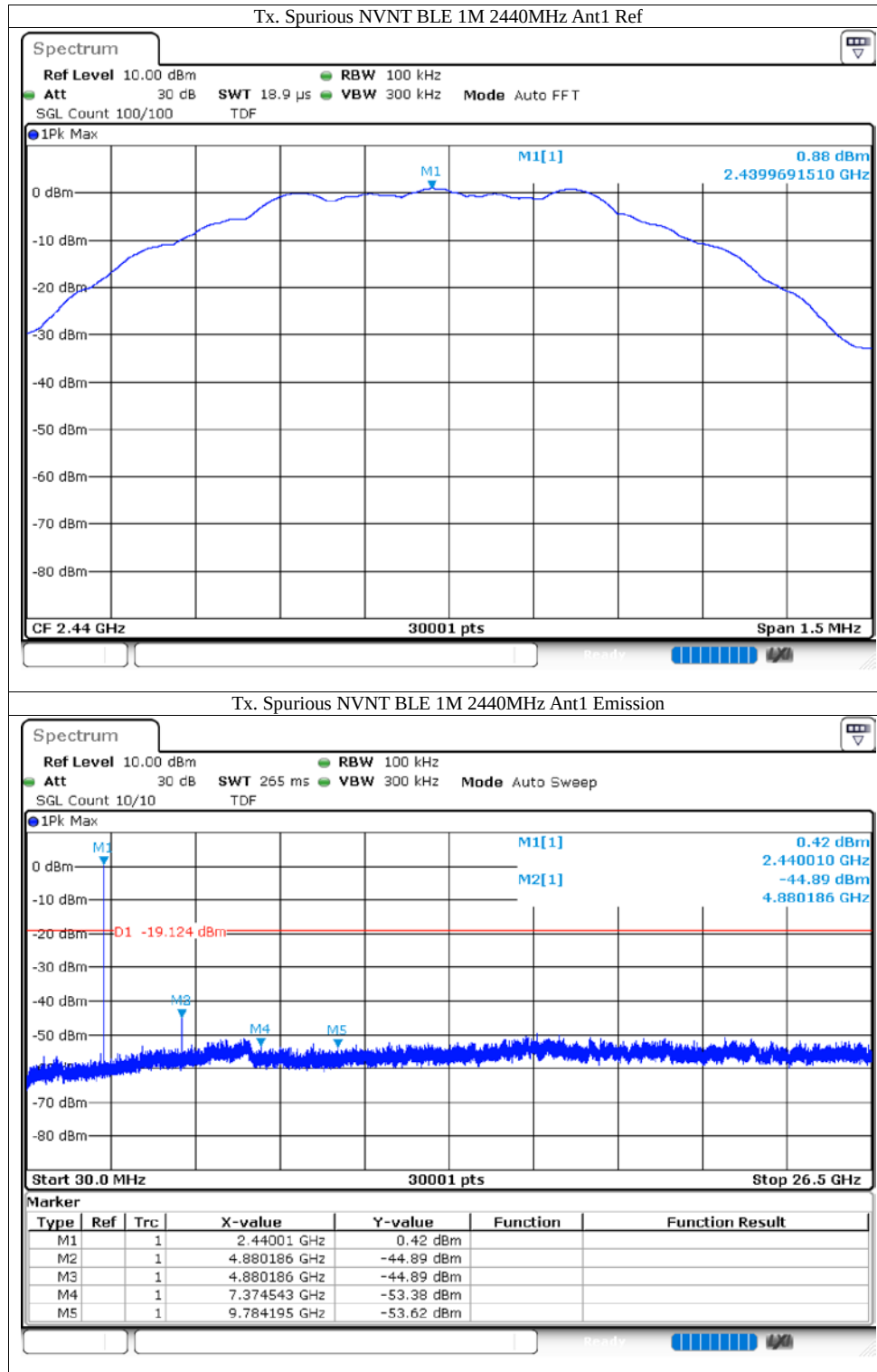


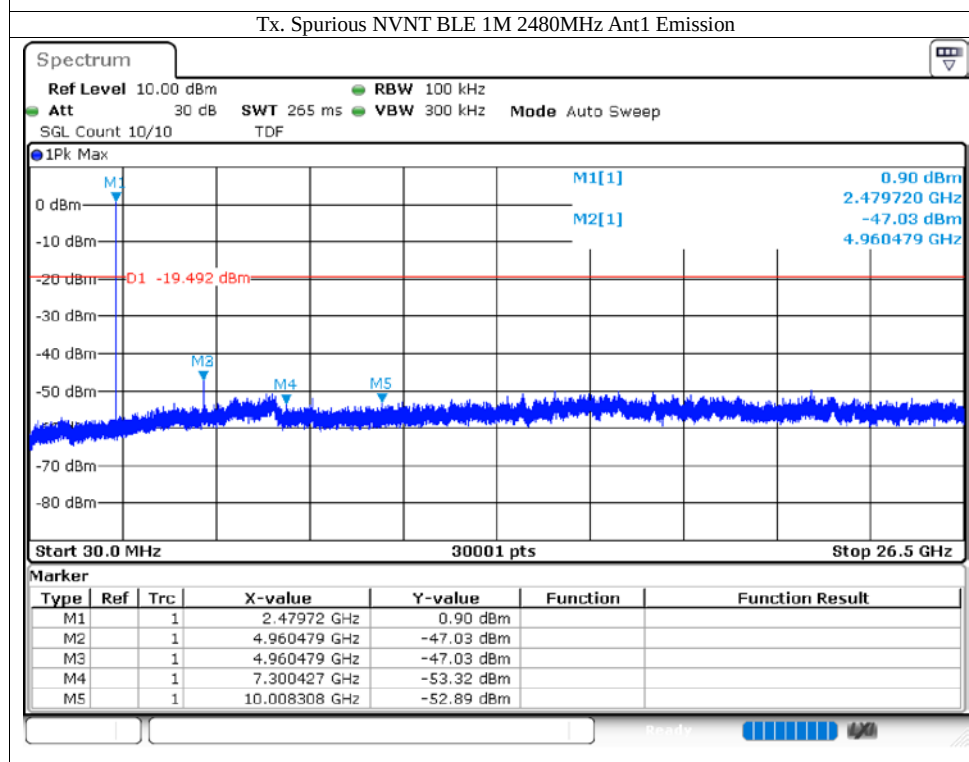
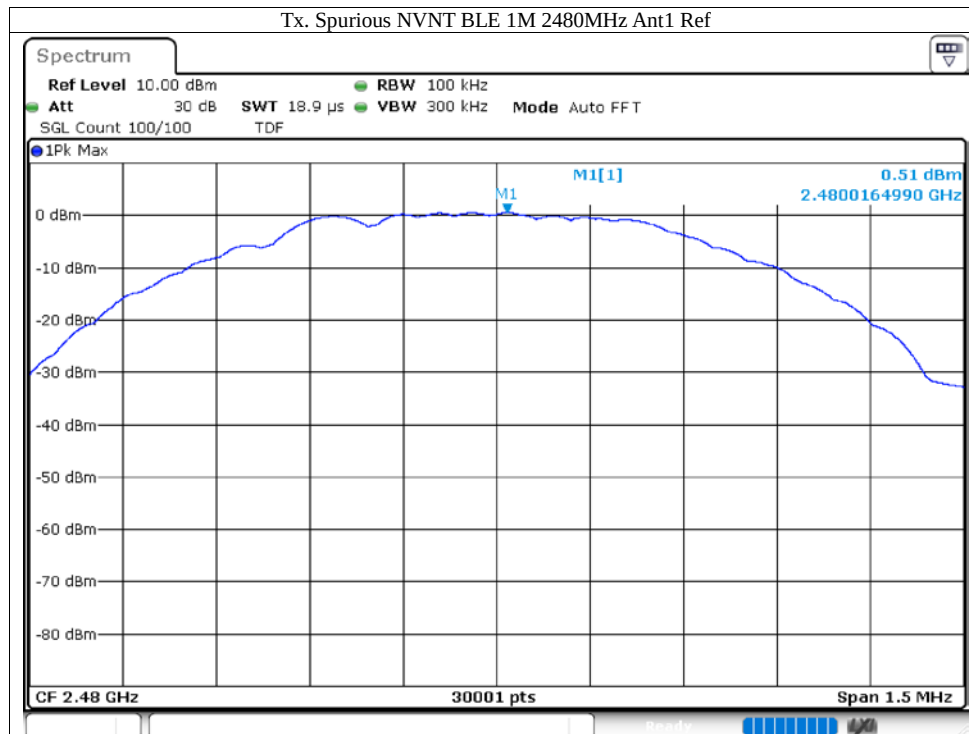


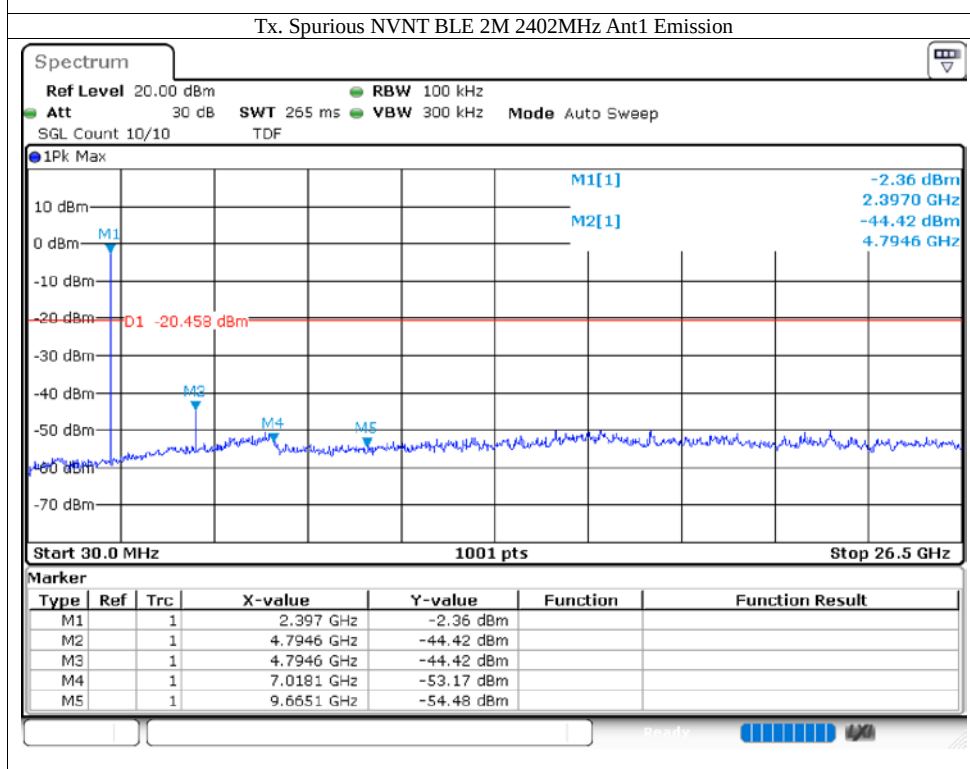
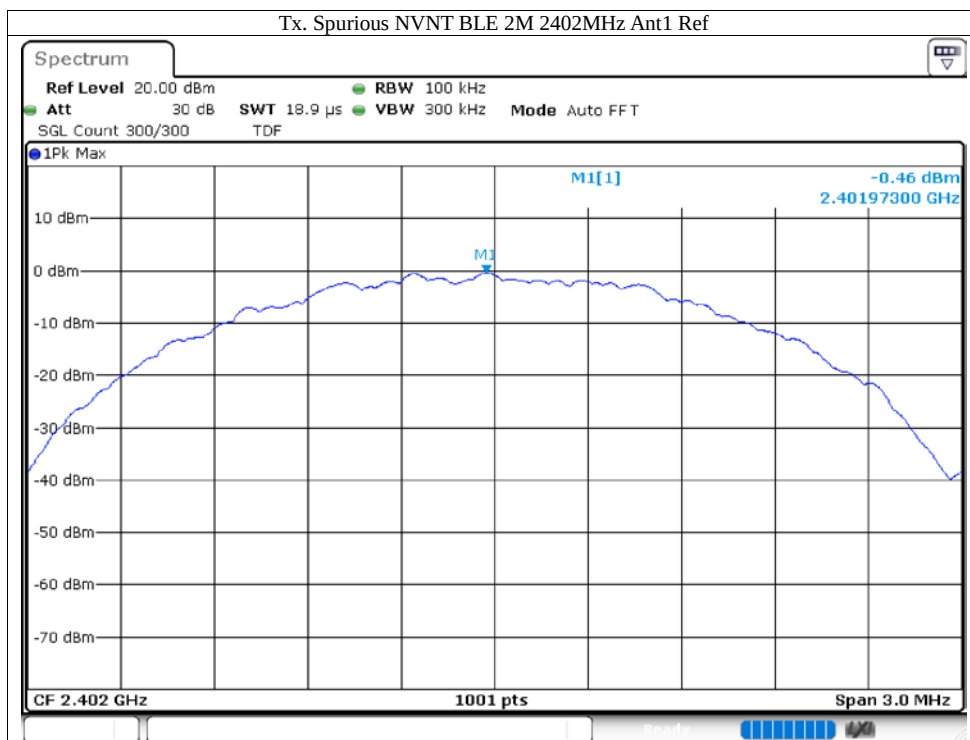
8.7 CONDUCTED RF SPURIOUS EMISSION

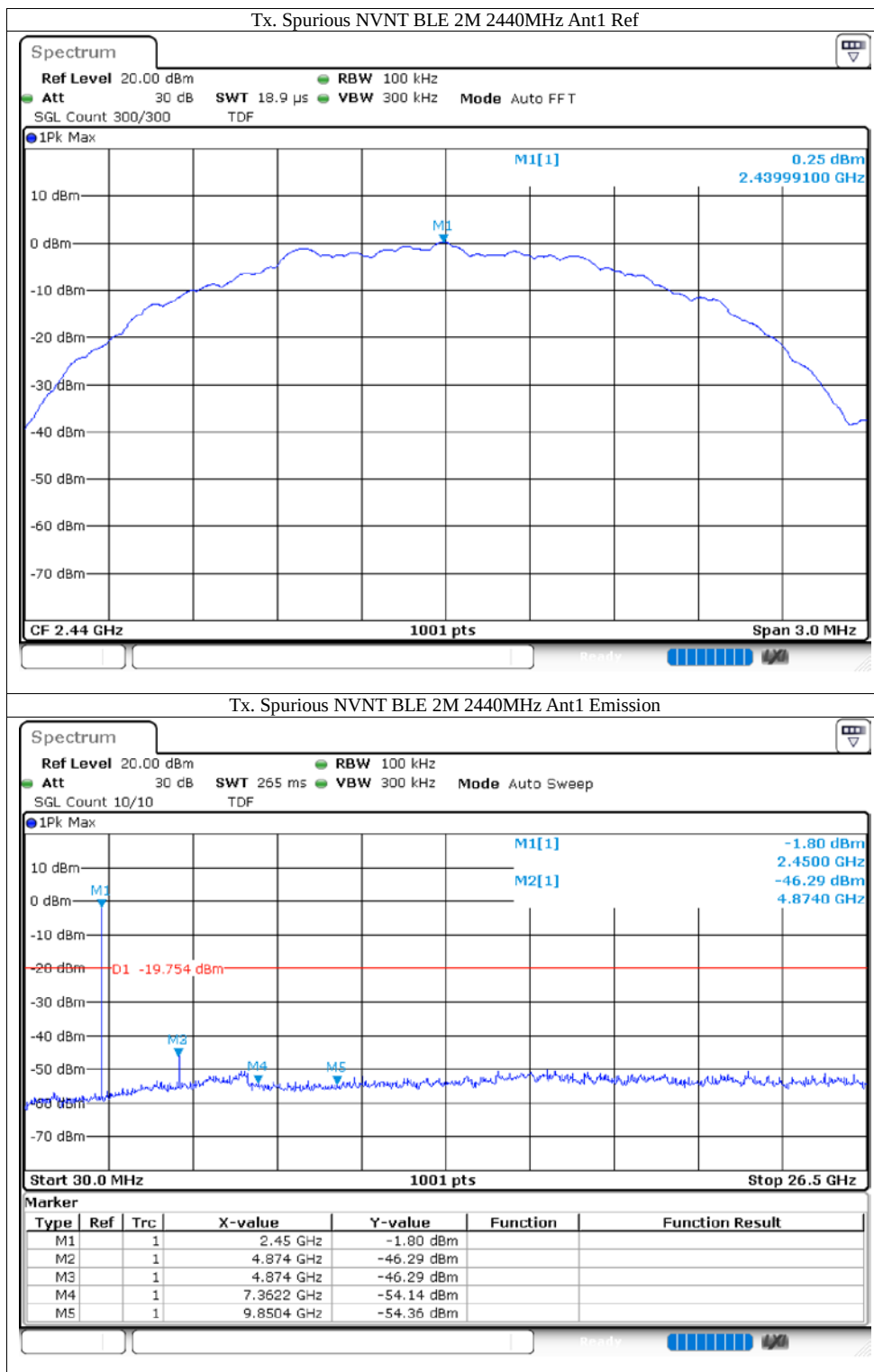
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-43.81	-20	Pass
NVNT	BLE 1M	2440	Ant1	-45.77	-20	Pass
NVNT	BLE 1M	2480	Ant1	-47.54	-20	Pass
NVNT	BLE 2M	2402	Ant1	-43.95	-20	Pass
NVNT	BLE 2M	2440	Ant1	-46.54	-20	Pass
NVNT	BLE 2M	2480	Ant1	-47.28	-20	Pass

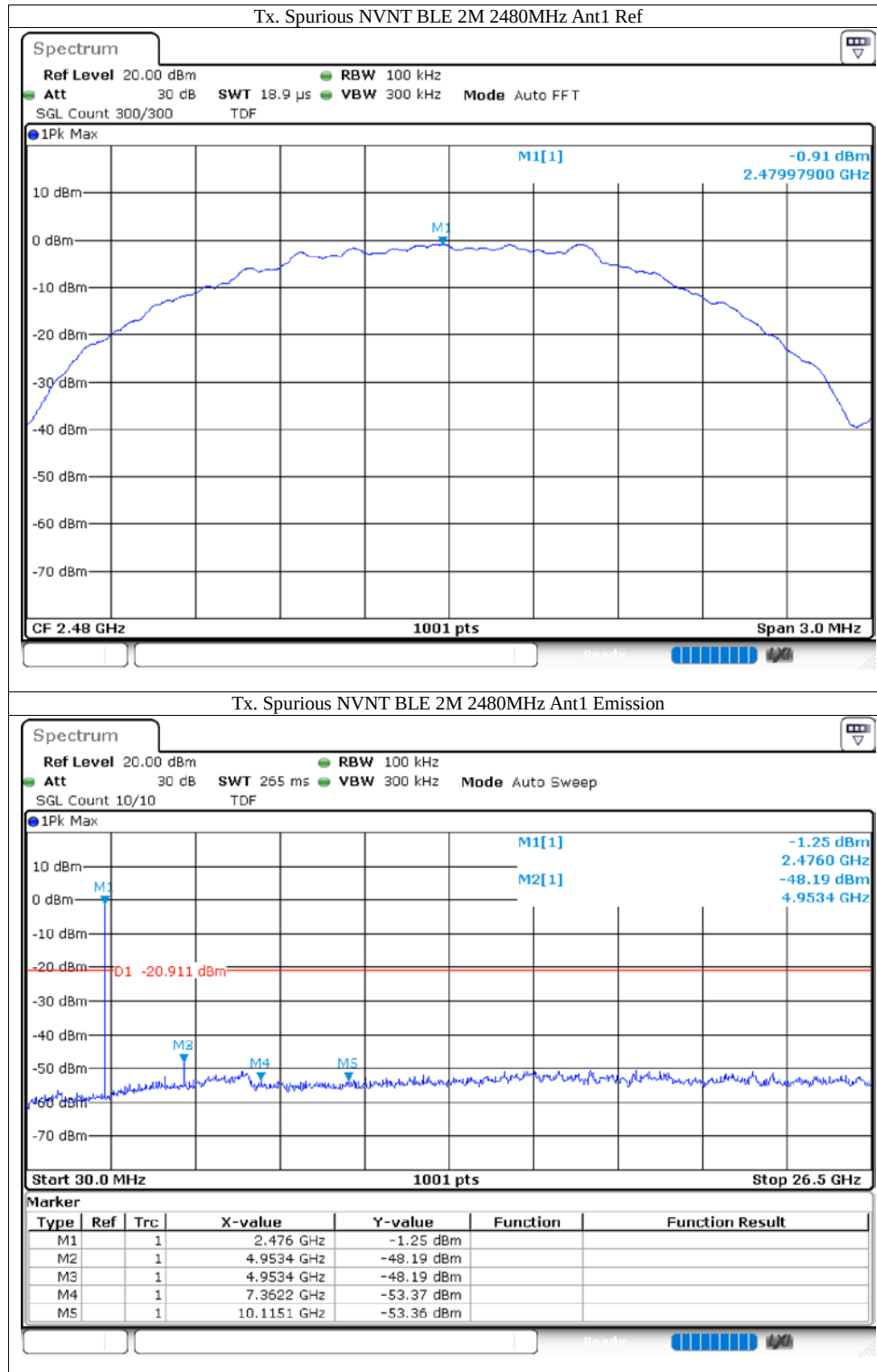












END OF REPORT