

RADIO TEST REPORT

FCC ID: 2ABYN016

Product: MoveLink 2.4GHz wireless microphone System (Transmitter)
Trade Mark: Godox
Model No.: MoveLink TX
Family Model: N/A
Report No.: S21052000708001
Issue Date: July 29. 2021

Prepared for

GODOX PHOTO EQUIPMENT CO.LTD

1st to 4th Floor, Building 2/1st to 4th Floor, Building 4, Yaochuan Industrial Zone, Tangwei Community, Fuhai Street, Baoan District, Shenzhen, 518103 China

Prepared by

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1 TEST RESULT CERTIFICATION

Applicant's name	GODOX PHOTO EQUIPMENT CO.LTD
Address	1st to 4th Floor, Building 2/1st to 4th Floor, Building 4, Yaochuan Industrial Zone, Tangwei Community, Fuhai Street, Baoan District, Shenzhen, 518103 China
Manufacturer's Name	GODOX PHOTO EQUIPMENT CO.LTD
Address	4th Floor of Building 1, 1st to 4 th Floor of Building 2, 4th Floor of Building 3, 1st to 4th Floor of Building 4, Yaochuan Industrial Zone, Tangwei Community, Fuhai Street, Bao'an District, Shenzhen 518103,China
Product description	
Product name	MoveLink 2.4GHz wireless microphone system(Transmitter)
Model and/or type reference	MoveLink TX
Family Model	N/A

Item	Equipment	Brand	Modle/Type No.	Note
E-1	Transmitter	Godox	MoveLink TX (*2)	MoveLink M2
E-2	Receiver		MoveLink RX	
E-3	MoveLink Charging Case		ML-C3	
E-4	Transmitter		MoveLink TX	MoveLink M1
E-5	Receiver		MoveLink RX	
E-6	Transmitter		MoveLink TX	MoveLink TX
E-7	Receiver		MoveLink RX	MoveLink RX

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 C63.10-2013 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.

Date of Test : May 20. 2021 ~ July 29. 2021

Testing Engineer : 
(Mary Hu)

Authorized Signatory : 
(Alex Li)

2 SUMMARY OF TEST RESULTS**FCC Part15 (15.247), Subpart C**

Standard Section	Test Item	Verdict	Remark
15.207	Conducted Emission	PASS	
15.209 (a) 15.205 (a)	Radiated Spurious Emission	PASS	
15.247(a)(1)	Hopping Channel Separation	PASS	
15.247(b)(1)	Peak Output Power	PASS	
15.247(a)(iii)	Number of Hopping Frequency	PASS	
15.247(a)(iii)	Dwell Time	PASS	
15.247(a)(1)	Bandwidth	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 1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Bao'an District, Shenzhen 518126 P.R. 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 17025:2005 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

: 1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Bao'an District, Shenzhen 518126 P.R. 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	$\pm 0.16\text{dB}$
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	$\pm 2\%$

4 GENERAL DESCRIPTION OF EUT

Product Feature and Specification	
Equipment	MoveLink 2.4GHz wireless microphone system(Transmitter)
Trade Mark	Godox
FCC ID	2ABYN016
Model No.	MoveLink TX
Family Model	N/A
Model Difference	N/A
Operating Frequency	2404MHz~2472MHz
Modulation	GFSK
Number of Channels	18 Channels
Antenna Type	PCB Antenna
Antenna Gain	0.45dBi
Power supply	<input checked="" type="checkbox"/> DC supply: DC 3.7V from battery or DC 5V from Type-C port / Charging case
	<input type="checkbox"/> Adapter supply: N/A
Battery	DC 3.7V, 300mAh, 1.1Wh
HW Version	TX:20210304H32 RX:20210304H31
SW Version	V1.0

Note: 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.

Revision History

Report No.	Version	Description	Issued Date
S21052000708001	Rev.01	Initial issue of report	July 29, 2021

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 MoveLink 2.4GHz wireless microphone system (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 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:

Channel	Frequency (MHz)
1	2404
2	2408
3	2412
4	2416
5	2420
6	2424
7	2428
8	2432
9	2436
10	2440
11	2444
12	2448
13	2452
14	2456
15	2460
16	2464
17	2468
18	2472

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

Test Cases	
Test Item	Data Rate/ Modulation
	GFSK
AC Conducted Emission	Mode 1: normal link mode
Radiated Test Cases	Mode 1: normal link mode
	Mode 2: Tx Ch1_2404MHz_1Mbps
	Mode 3: Tx Ch10_2440MHz_1Mbps
	Mode 4: Tx Ch18_2472MHz_1Mbps
Conducted Test Cases	Mode 2: Tx Ch1_2404MHz_1Mbps
	Mode 3: Tx Ch10_2440MHz_1Mbps
	Mode 4: Tx Ch18_2472MHz_1Mbps

Note:

- The engineering test program was provided and the EUT was programmed to be in continuously

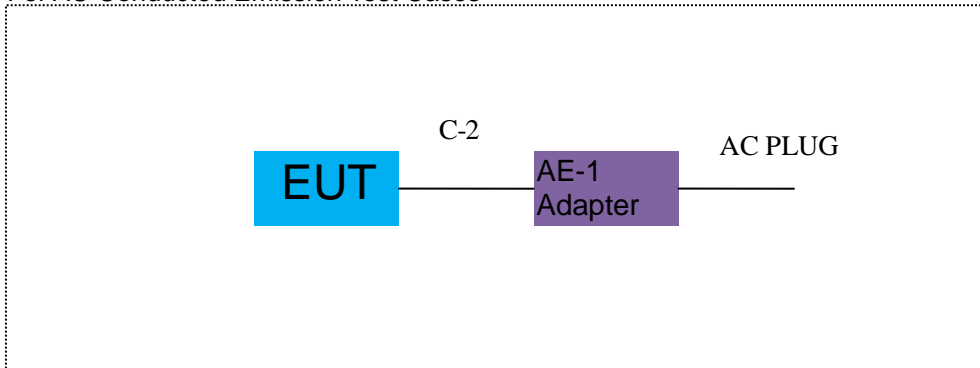
transmitting mode.

2. For radiated test cases, the worst mode data rate 1Mbps 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.

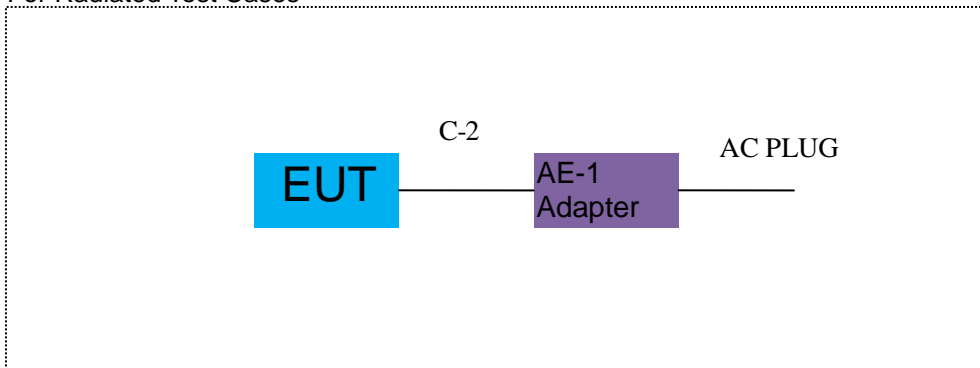
6 SETUP OF EQUIPMENT UNDER TEST

6.1 BLOCK DIAGRAM CONFIGURATION OF TEST SYSTEM

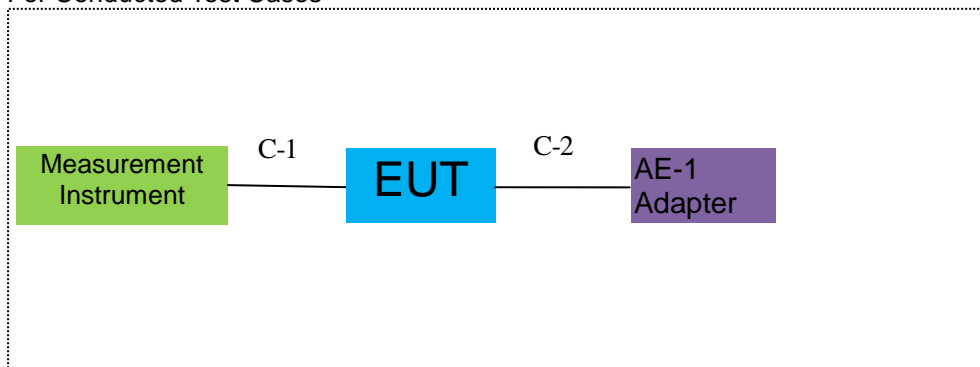
For AC Conducted Emission Test Cases



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	Mfr/Brand	Model/Type No.	Series No.	Note
AE-1	Adapter	N/A	N/A	N/A	Peripherals

Item	Cable Type	Shielded Type	Ferrite Core	Length
C-1	RF Cable	YES	NO	0.1m
C-2	Type-C cable	NO	NO	1.0m

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	E4407B	MY45108040	2021.04.27	2022.04.26	1 year
2	Spectrum Analyzer	Agilent	N9020A	MY49100060	2020.07.13 2021.07.01	2021.07.12 2022.06.30	1 year
3	Spectrum Analyzer	R&S	FSV40	101417	2020.07.13 2021.07.01	2021.07.12 2022.06.30	1 year
4	Test Receiver	R&S	ESPI7	101318	2021.04.27	2022.04.26	1 year
5	Bilog Antenna	TESEQ	CBL6111D	31216	2021.04.27	2022.04.26	1 year
6	50Ω Coaxial Switch	Anritsu	MP59B	6200983705	2020.05.11	2023.05.10	3 year
7	Horn Antenna	EM	EM-AH-10180	2011071402	2021.04.27	2022.04.26	1 year
8	Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	803	2021.04.27	2022.04.26	1 year
9	Amplifier	EMC	EMC051835SE	980246	2020.07.13 2021.07.01	2021.07.12 2022.06.30	1 year
10	Active Loop Antenna	SCHWARZBECK	FMZB 1519B	055	2021.04.27	2022.04.26	1 year
11	Power Meter	DARE	RPR3006W	15I00041SN084	2020.07.13	2021.07.12	1 year
12	Test Cable (9KHz-30MHz)	N/A	R-01	N/A	2019.08.06	2022.08.05	3 year
13	Test Cable (30MHz-1GHz)	N/A	R-02	N/A	2019.08.06	2022.08.05	3 year
14	High Test Cable(1G-40G Hz)	N/A	R-03	N/A	2019.06.28	2022.06.27	3 year
15	High Test Cable(1G-40G Hz)	N/A	R-04	N/A	2021.04.27	2022.04.26	1 year
16	Filter	TRILTHIC	2400MHz	29	2020.07.13 2021.07.01	2021.07.12 2022.06.30	1 year
17	temporary antenna connector (Note)	NTS	R001	N/A	N/A	N/A	N/A

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	2021.04.27	2022.04.26	1 year
2	LISN	R&S	ENV216	101313	2021.04.27	2022.04.26	1 year
3	LISN	SCHWARZBECK	NNLK 8129	8129245	2021.04.27	2022.04.26	1 year
4	50Ω Coaxial Switch	ANRITSU CORP	MP59B	6200983704	2020.05.11	2023.05.10	3 year
5	Test Cable (9KHz-30MHz)	N/A	C01	N/A	2020.05.11	2023.05.10	3 year
6	Test Cable (9KHz-30MHz)	N/A	C02	N/A	2020.05.11	2023.05.10	3 year
7	Test Cable (9KHz-30MHz)	N/A	C03	N/A	2020.05.11	2023.05.10	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.

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

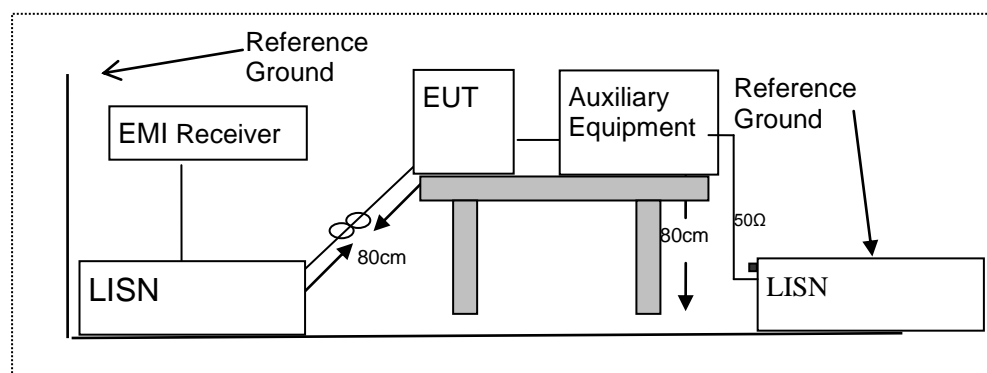
Frequency(MHz)	Conducted Emission Limit	
	Quasi-peak	Average
0.15-0.5	66-56*	56-46*
0.5-5.0	56	46
5.0-30.0	60	50

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 C63.10-2013 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.

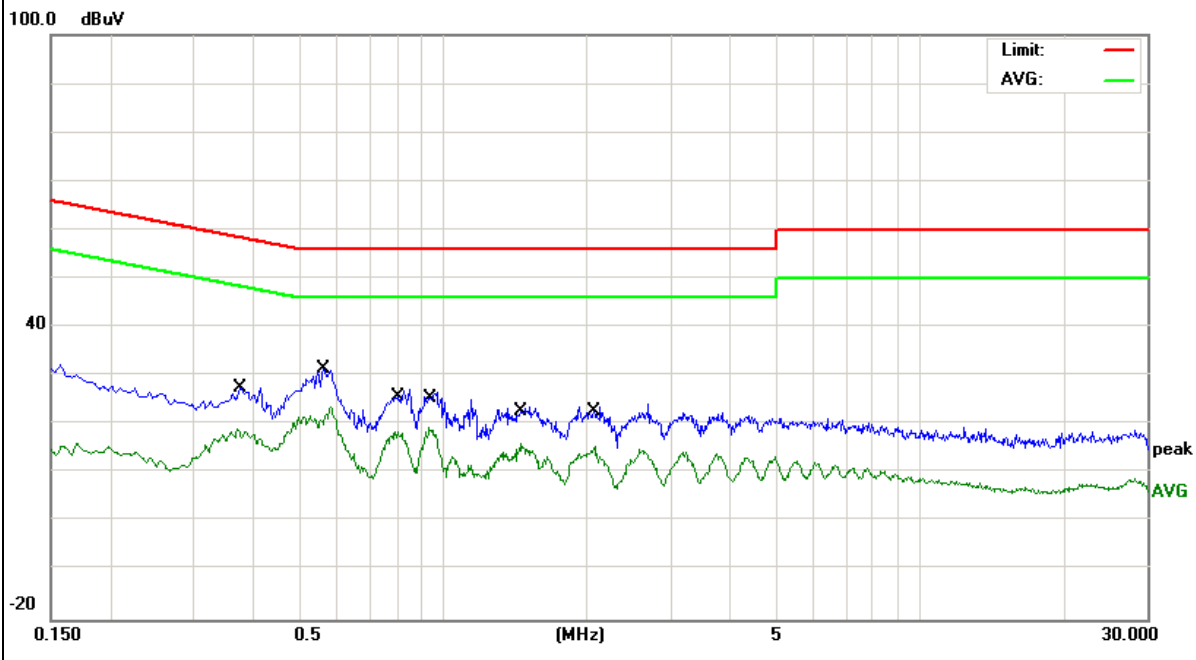
7.1.6 Test Results

EUT:	MoveLink 2.4GHz wireless microphone system(Transmitter)	Model Name :	MoveLink TX
Temperature:	22.6 °C	Relative Humidity:	54%
Pressure:	1010hPa	Phase :	L
Test Voltage :	DC 5V from Adapter AC 120V/60Hz	Test Mode:	Mode 1

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBμV)	(dB)	(dBμV)	(dBμV)	(dB)	
0.3700	18.05	9.55	27.60	58.50	-30.90	QP
0.3700	9.61	9.55	19.16	48.50	-29.34	AVG
0.5620	21.85	9.55	31.40	56.00	-24.60	QP
0.5620	14.02	9.55	23.57	46.00	-22.43	AVG
0.7940	17.62	9.55	27.17	56.00	-28.83	QP
0.7940	9.13	9.55	18.68	46.00	-27.32	AVG
0.9340	17.02	9.56	26.58	56.00	-29.42	QP
0.9340	9.99	9.56	19.55	46.00	-26.45	AVG
1.4540	14.07	9.56	23.63	56.00	-32.37	QP
1.4540	6.46	9.56	16.02	46.00	-29.98	AVG
2.0860	14.11	9.58	23.69	56.00	-32.31	QP
2.0860	5.85	9.58	15.43	46.00	-30.57	AVG

Remark:

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

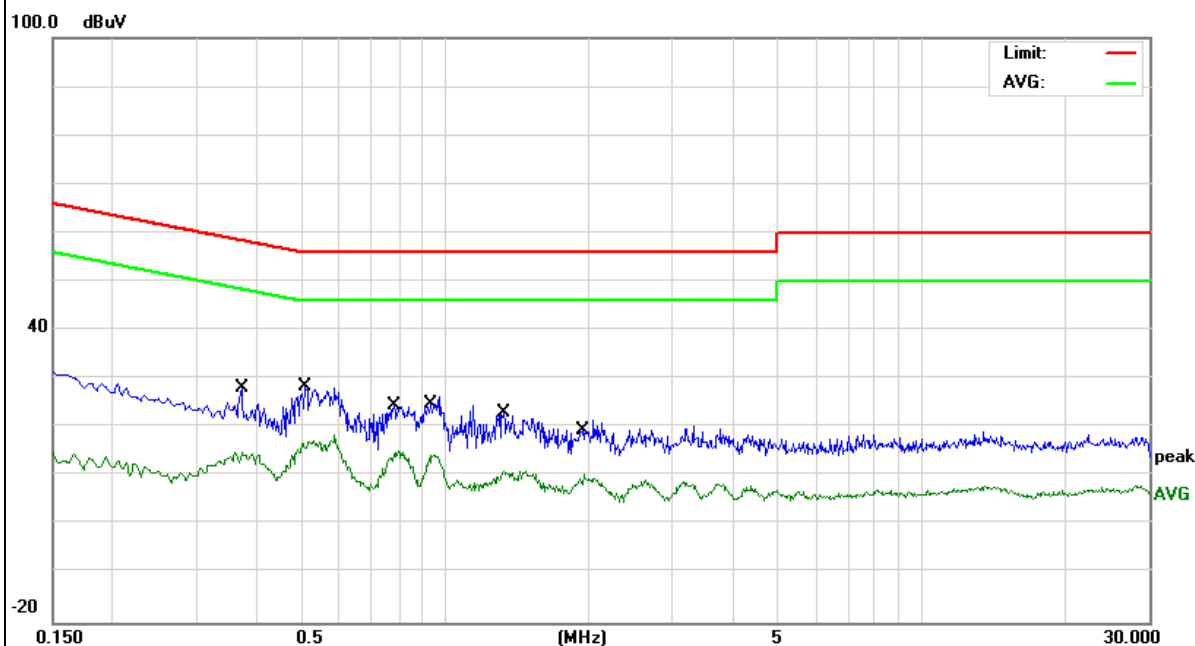


EUT:	MoveLink 2.4GHz wireless microphone system(Transmitter)	Model Name :	MoveLink TX
Temperature:	22.6 °C	Relative Humidity:	54%
Pressure:	1010hPa	Phase :	N
Test Voltage :	DC 5V from Adapter AC 120V/60Hz	Test Mode:	Mode 1

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBμV)	(dB)	(dBμV)	(dBμV)	(dB)	
0.3740	18.73	9.54	28.27	58.41	-30.14	QP
0.3740	5.34	9.54	14.88	48.41	-33.53	AVG
0.5100	18.82	9.54	28.36	56.00	-27.64	QP
0.5100	7.94	9.54	17.48	46.00	-28.52	AVG
0.7820	15.06	9.54	24.60	56.00	-31.40	QP
0.7820	5.59	9.54	15.13	46.00	-30.87	AVG
0.9380	16.93	9.55	26.48	56.00	-29.52	QP
0.9380	4.88	9.55	14.43	46.00	-31.57	AVG
1.3260	13.54	9.55	23.09	56.00	-32.91	QP
1.3260	1.56	9.55	11.11	46.00	-34.89	AVG
1.9500	11.91	9.57	21.48	56.00	-34.52	QP
1.9500	0.83	9.57	10.40	46.00	-35.60	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) and 15.209 and ANSI C63.10-2013

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 Part 15.205, 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

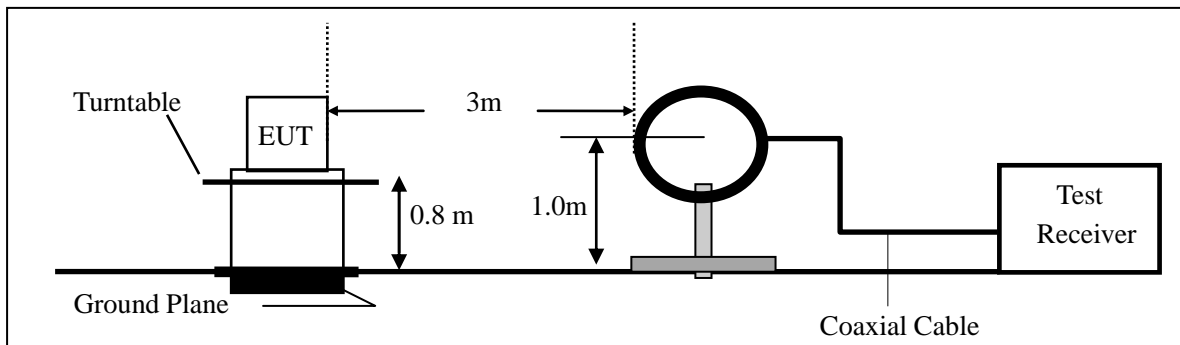
Remark : 1. Emission level in dBuV/m=20 log (uV/m)
2. Measurement was performed at an antenna to the closed point of EUT distance of meters.
3. For Frequency 9kHz~30MHz: Distance extrapolation factor =40log(Specific distance/ test distance)(dB); Limit line=Specific limits(dBuV) + distance extrapolation 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

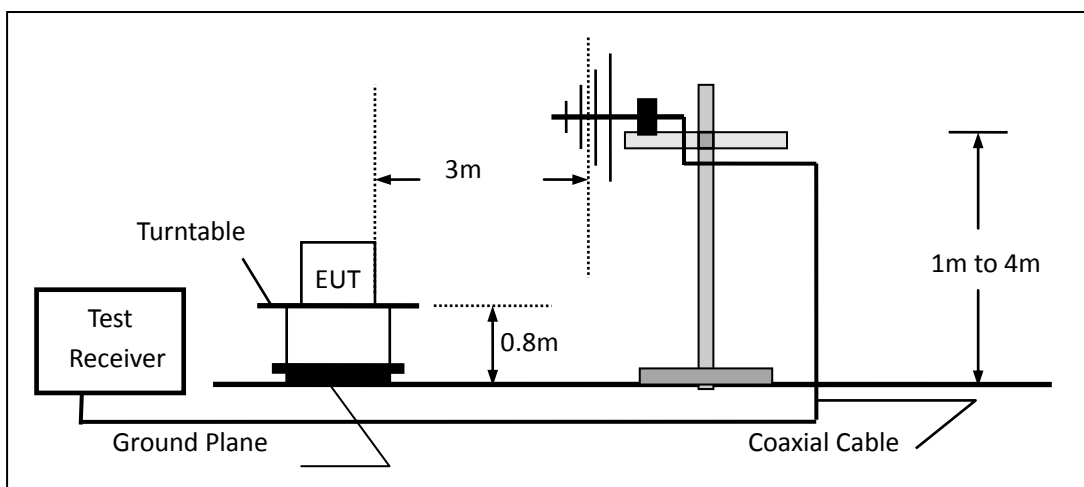
The Measuring equipment is listed in the section 6.3 of this test report.

7.2.4 Test Configuration

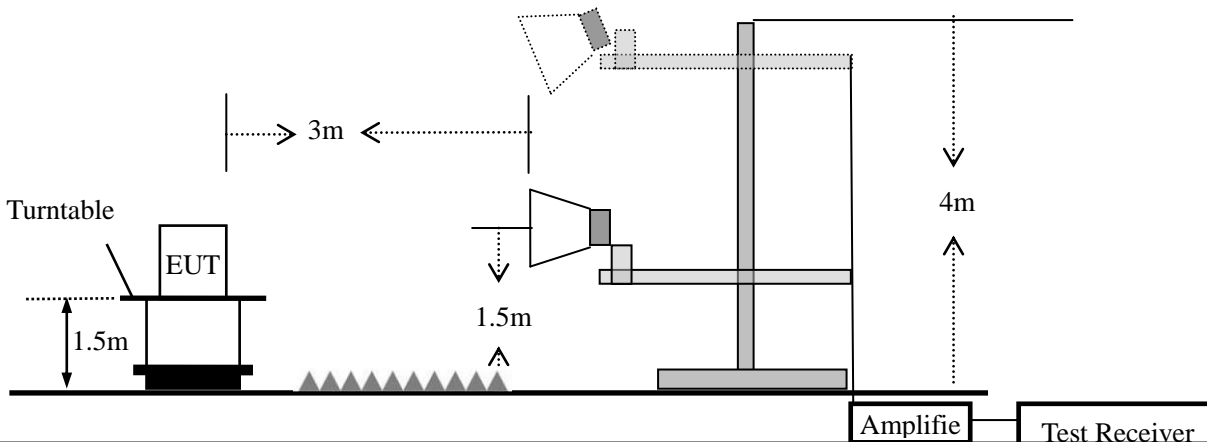
(a) For radiated emissions below 30MHz



(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 C63.10-2013. The test distance is 3m. The setup is according to the requirements in Section 13.1.4.1 of ANSI C63.10-2013 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:	MoveLink 2.4GHz wireless microphone system(Transmitter)	Model No.:	MoveLink TX
Temperature:	20 °C	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Mary Hu

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)

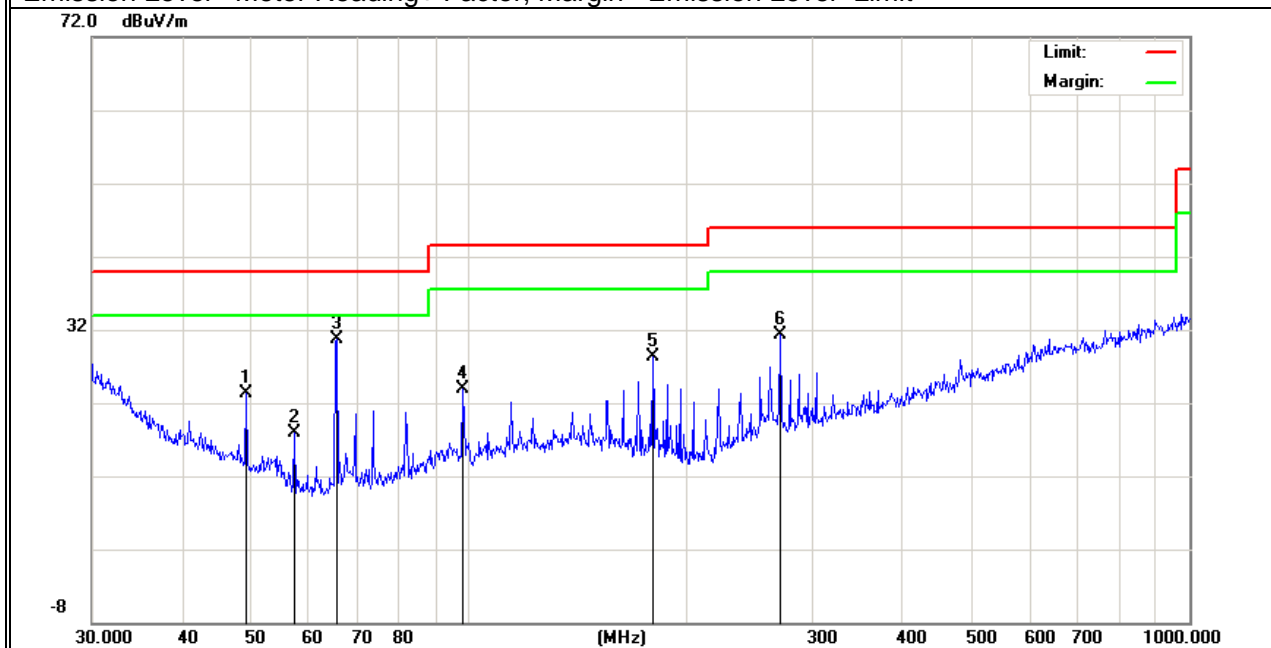
All the modulation modes have been tested, and the worst result was report as below:

EUT:	MoveLink 2.4GHz wireless microphone system(Transmitter)	Model Name :	MoveLink TX
Temperature:	24.1 °C	Relative Humidity:	53%
Pressure:	1010hPa	Test Mode:	Mode 1
Test Voltage :	DC 3.7V		

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	49.0144	13.88	9.34	23.22	40.00	-16.78	QP
V	57.1914	11.85	6.13	17.98	40.00	-22.02	QP
V	65.5725	24.55	6.10	30.65	40.00	-9.35	QP
V	98.1419	13.46	10.52	23.98	43.50	-19.52	QP
V	180.0165	17.72	10.55	28.27	43.50	-15.23	QP
V	270.3747	16.07	15.27	31.34	46.00	-14.66	QP

Remark:

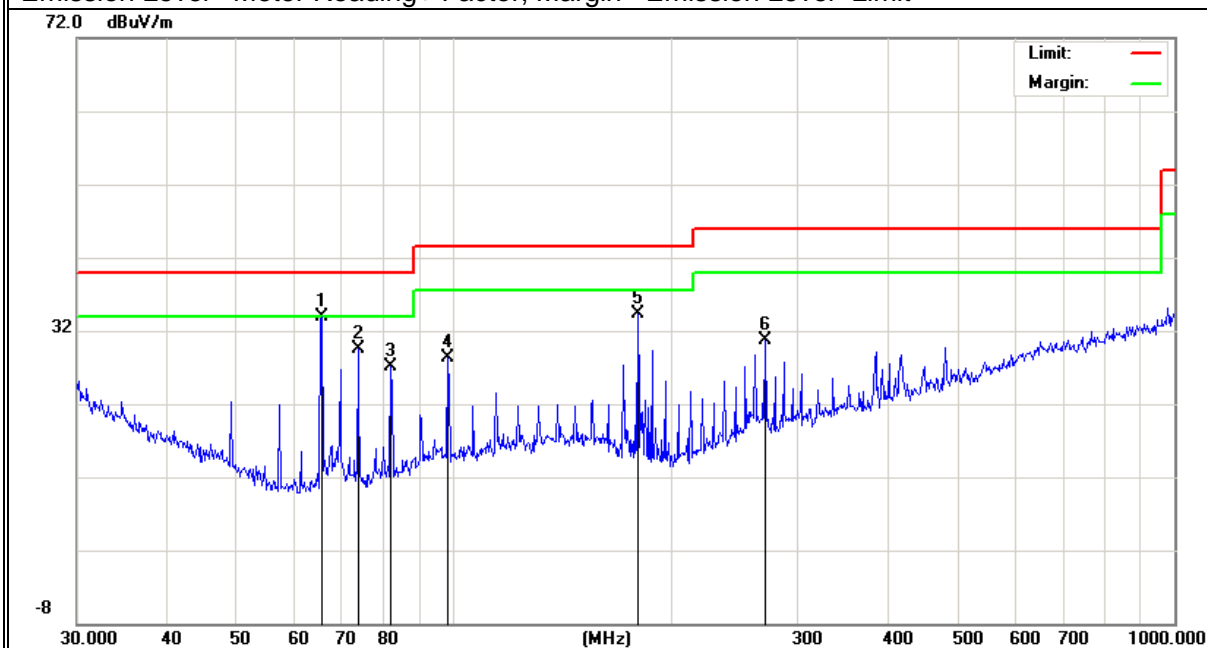
Emission Level= Meter Reading+ Factor, Margin= Emission Level- Limit



Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
H	65.5725	27.75	6.10	33.85	40.00	-6.15	QP
H	73.6170	22.43	7.08	29.51	40.00	-10.49	QP
H	81.7831	18.71	8.38	27.09	40.00	-12.91	QP
H	98.1419	17.81	10.52	28.33	43.50	-15.17	QP
H	180.0165	23.79	10.55	34.34	43.50	-9.16	QP
H	270.3747	15.46	15.27	30.73	46.00	-15.27	QP

Remark:

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



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

EUT:	MoveLink 2.4GHz wireless microphone system(Transmitter)	Model No.:	MoveLink TX
Temperature:	20 °C	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Mary Hu

Frequency	Read Level	Cable loss	Antenna Factor	Preamplifier Factor	Emission Level	Limits	Margin	Remark	Comment
(MHz)	(dBμV)	(dB)	dB/m	(dB)	(dBμV/m)	(dBμV/m)	(dB)		
Low Channel (2404 MHz)(GFSK)--Above 1G									
4808.18	64.76	5.21	35.59	44.30	61.26	74.00	-12.74	Pk	Vertical
4808.18	44.08	5.21	35.59	44.30	40.58	54.00	-13.42	AV	Vertical
7208.12	64.47	6.48	36.27	44.60	62.62	74.00	-11.38	Pk	Vertical
7208.12	44.83	6.48	36.27	44.60	42.98	54.00	-11.02	AV	Vertical
4808.69	62.16	5.21	35.55	44.30	58.62	74.00	-15.38	Pk	Horizontal
4808.69	44.19	5.21	35.55	44.30	40.65	54.00	-13.35	AV	Horizontal
7212.86	65.30	6.48	36.27	44.52	63.53	74.00	-10.47	Pk	Horizontal
7212.86	44.67	6.48	36.27	44.52	42.90	54.00	-11.10	AV	Horizontal
Mid Channel (2440 MHz)(GFSK)--Above 1G									
4880.76	61.32	5.21	35.66	44.20	57.99	74.00	-16.01	Pk	Vertical
4880.76	43.73	5.21	35.66	44.20	40.40	54.00	-13.60	AV	Vertical
7320.18	64.44	7.10	36.50	44.43	63.61	74.00	-10.39	Pk	Vertical
7320.18	44.03	7.10	36.50	44.43	43.20	54.00	-10.80	AV	Vertical
4880.12	60.82	5.21	35.66	44.20	57.49	74.00	-16.51	Pk	Horizontal
4880.12	43.52	5.21	35.66	44.20	40.19	54.00	-13.81	AV	Horizontal
7320.86	65.21	7.10	36.50	44.43	64.38	74.00	-9.62	Pk	Horizontal
7320.86	43.54	7.10	36.50	44.43	42.71	54.00	-11.29	AV	Horizontal
High Channel (2472 MHz)(GFSK)-- Above 1G									
4944.46	62.58	5.21	35.52	44.21	59.10	74.00	-14.90	Pk	Vertical
4944.46	43.55	5.21	35.52	44.21	40.07	54.00	-13.93	AV	Vertical
7416.31	63.99	7.10	36.53	44.60	63.02	74.00	-10.98	Pk	Vertical
7416.31	43.89	7.10	36.53	44.60	42.92	54.00	-11.08	AV	Vertical
4944.43	65.27	5.21	35.52	44.21	61.79	74.00	-12.21	Pk	Horizontal
4944.43	43.28	5.21	35.52	44.21	39.80	54.00	-14.20	AV	Horizontal
7416.79	61.82	7.10	36.53	44.60	60.85	74.00	-13.15	Pk	Horizontal
7416.79	43.70	7.10	36.53	44.60	42.73	54.00	-11.27	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:	MoveLink 2.4GHz wireless microphone system(Transmitter)	Model No.:	MoveLink TX
Temperature:	20 °C	Relative Humidity:	48%
Test Mode:	Mode2/ Mode4	Test By:	Mary Hu

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	61.10	2.97	27.80	43.80	48.07	74	-25.93	Pk	Horizontal
2310.00	39.75	2.97	27.80	43.80	26.72	54	-27.28	AV	Horizontal
2310.00	63.25	2.97	27.80	43.80	50.22	74	-23.78	Pk	Vertical
2310.00	44.02	2.97	27.80	43.80	30.99	54	-23.01	AV	Vertical
2390.00	61.25	3.14	27.21	43.80	47.80	74	-26.20	Pk	Vertical
2390.00	43.57	3.14	27.21	43.80	30.12	54	-23.88	AV	Vertical
2390.00	60.51	3.14	27.21	43.80	47.06	74	-26.94	Pk	Horizontal
2390.00	43.93	3.14	27.21	43.80	30.48	54	-23.52	AV	Horizontal
2483.50	63.91	3.58	27.70	44.00	51.19	74	-22.81	Pk	Vertical
2483.50	44.48	3.58	27.70	44.00	31.76	54	-22.24	AV	Vertical
2483.50	64.92	3.58	27.70	44.00	52.20	74	-21.80	Pk	Horizontal
2483.50	43.41	3.58	27.70	44.00	30.69	54	-23.31	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

■ Spurious Emission in Restricted Band 3260MHz-18000MHz

EUT:	MoveLink 2.4GHz wireless microphone system(Transmitter)	Model No.:	MoveLink TX
Temperature:	20 °C	Relative Humidity:	48%
Test Mode:	Mode2/ Mode4	Test By:	Mary Hu

Frequency	Reading Level	Cable Loss	Antenna Factor	Preamp Factor	Emission Level	Limits	Margin	Detector	Comment
(MHz)	(dBμV)	(dB)	dB/m	(dB)	(dBμV/m)	(dBμV/m)	(dB)	Type	
3260	62.71	4.04	29.57	44.70	51.62	74	-22.38	Pk	Vertical
3260	44.21	4.04	29.57	44.70	33.12	54	-20.88	AV	Vertical
3260	61.90	4.04	29.57	44.70	50.81	74	-23.19	Pk	Horizontal
3260	44.43	4.04	29.57	44.70	33.34	54	-20.66	AV	Horizontal
3332	64.64	4.26	29.87	44.40	54.37	74	-19.63	Pk	Vertical
3332	43.99	4.26	29.87	44.40	33.72	54	-20.28	AV	Vertical
3332	60.17	4.26	29.87	44.40	49.90	74	-24.10	Pk	Horizontal
3332	43.57	4.26	29.87	44.40	33.30	54	-20.70	AV	Horizontal
17797	46.83	10.99	43.95	43.50	58.27	74	-15.73	Pk	Vertical
17797	35.78	10.99	43.95	43.50	47.22	54	-6.78	AV	Vertical
17788	49.96	11.81	43.69	44.60	60.86	74	-13.14	Pk	Horizontal
17788	34.71	11.81	43.69	44.60	45.61	54	-8.39	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 NUMBER OF HOPPING CHANNEL

7.3.1 Applicable Standard

According to FCC Part 15.247(a)(1) (iii) and ANSI C63.10-2013

7.3.2 Conformance Limit

Frequency hopping systems in the 2400-2483.5MHz band shall use at least 15 channels.

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 ANSI C63.10-2013 clause 7.8.3

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 must have its hopping function enabled.

Use the following spectrum analyzer settings:

Span = the frequency band of operation

RBW : To identify clearly the individual channels, set the RBW to less than 30% of the channel spacing or the 20 dB bandwidth, whichever is smaller.

VBW \geq RBW

Sweep = auto

Detector function = peak

Trace = max hold

7.3.6 Test Results

EUT:	MoveLink 2.4GHz wireless microphone system(Transmitter)	Model No.:	MoveLink TX
Temperature:	20 °C	Relative Humidity:	48%
Test Mode:	Mode 5(1Mbps)	Test By:	Mary Hu

Test data reference attachment.

7.4 HOPPING CHANNEL SEPARATION MEASUREMENT

7.4.1 Applicable Standard

According to FCC Part 15.247(a)(1) and ANSI C63.10-2013

7.4.2 Conformance Limit

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5MHz band shall have hopping channel carrier frequencies that are separated by 25kHz or two-thirds of the 20dB bandwidth of the hopping channel, whichever is greater.

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 testing follows ANSI C63.10-2013 clause 7.8.2

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 = Measurement Bandwidth or Channel Separation

RBW: Start with the RBW set to approximately 3% of the channel spacing; adjust as necessary to best identify the center of each individual channel.

VBW \geq RBW

Sweep = auto

Detector function = peak

Trace = max hold

7.4.6 Test Results

EUT:	MoveLink 2.4GHz wireless microphone system(Transmitter)	Model No.:	MoveLink TX
Temperature:	20 °C	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Mary Hu

Test data reference attachment.

7.5 AVERAGE TIME OF OCCUPANCY (DWELL TIME)

7.5.1 Applicable Standard

According to FCC Part 15.247(a)(1)(iii) and ANSI C63.10-2013

7.5.2 Conformance Limit

The average time of occupancy on any channel shall not be greater than 0.4s within a period of 0.4s multiplied by the number of hopping channels employed.

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 ANSI C63.10-2013 clause 7.8.4

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 must have its hopping function enabled.

Use the following spectrum analyzer settings:

Span = zero span, centered on a hopping channel

RBW \geq 1MHz

VBW \geq RBW

Sweep = as necessary to capture the entire dwell time per hopping channel

Detector function = peak

Trace = max hold

Measure the maximum time duration of one single pulse.

Set the EUT for GFSK packet transmitting.

Measure the maximum time duration of one single pulse.

7.5.6 Test Results

EUT:	MoveLink 2.4GHz wireless microphone system(Transmitter)	Model No.:	MoveLink TX
Temperature:	20 °C	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Mary Hu

Test data reference attachment.

7.5.7 Pseudorandom Frequency Hopping Sequence

Each frequency used equally on the average by each transmitter.

The channel order is determined by the Channel mapping Table, system receivers have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shift frequencies in synchronization with the transmitted signals

Pseudo-random sequence Table

Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2404	8	2432
5	2420	3	2412
10	2440	7	2428
17	2468	6	2424
12	2448	11	2444
13	2452	14	2456
16	2464	4	2416
15	2460	9	2436
2	2408	18	2472

7.6 20DB BANDWIDTH TEST

7.6.1 Applicable Standard

According to FCC Part 15.247(a)(1) and ANSI C63.10-2013

7.6.2 Conformance Limit

No limit requirement.

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 ANSI C63.10-2013 clause 6.9.2

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 = approximately 2 to 3 times the 20 dB bandwidth, centered on a hopping channel

RBW \geq 1% of the 20 dB bandwidth

VBW \geq RBW

Sweep = auto

Detector function = peak

Trace = max hold

7.6.6 Test Results

EUT:	MoveLink 2.4GHz wireless microphone system(Transmitter)	Model No.:	MoveLink TX
Temperature:	20 °C	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Mary Hu

Test data reference attachment.

7.7 PEAK OUTPUT POWER

7.7.1 Applicable Standard

According to FCC Part 15.247(b)(1) and ANSI C63.10-2013

7.7.2 Conformance Limit

The maximum peak conducted output power of the intentional radiator shall not exceed the following: (1) For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band 0.125 watts.

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 ANSI C63.10-2013 clause 7.8.5.

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 = approximately 5 times the 20 dB bandwidth, centered on a hopping channel

RBW \geq the 20 dB bandwidth of the emission being measured

VBW \geq RBW

Sweep = auto

Detector function = peak

Trace = max hold

7.7.6 Test Results

EUT:	MoveLink 2.4GHz wireless microphone system(Transmitter)	Model No.:	MoveLink TX
Temperature:	20 °C	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Mary Hu

Test data reference attachment.

7.8 CONDUCTED BAND EDGE MEASUREMENT

7.8.1 Applicable Standard

According to FCC Part 15.247(d) and ANSI C63.10-2013

7.8.2 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. Attenuation below the general limits specified in §15.209(a) is not required. In addition, 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)).

7.8.3 Measuring Instruments

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

7.8.4 Test Setup

Please refer to Section 6.1 of this test report.

7.8.5 Test Procedure

The testing follows ANSI C63.10-2013 clause 7.8.6.

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 must have its hopping function enabled.

Use the following spectrum analyzer settings:

Span = approximately 5 times the 20 dB bandwidth, centered on a hopping channel

RBW = 100KHz

VBW = 300KHz

Band edge emissions must be at least 20 dB down from the highest emission level within the authorized band as measured with a 100kHz RBW. The attenuation shall be 30 dB instead of 20 dB when RMS conducted output power procedure is used.

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.

7.8.6 Test Results

EUT:	MoveLink 2.4GHz wireless microphone system(Transmitter)	Model No.:	MoveLink TX
Temperature:	20 °C	Relative Humidity:	48%
Test Mode:	Mode2 /Mode4/ Mode 5	Test By:	Mary Hu

Test data reference attachment.

7.9 SPURIOUS RF CONDUCTED EMISSION

7.9.1 Applicable Standard

According to FCC Part 15.247(d) and ANSI C63.10-2013.

7.9.2 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. Attenuation below the general limits specified in §15.209(a) is not required. In addition, 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)).

7.9.3 Measuring Instruments

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

7.9.4 Test Setup

Please refer to Section 6.1 of this test report.

7.9.5 Test Procedure

Establish an emission level by using the following procedure:

- a) Set the center frequency and span to encompass frequency range to be measured.
 - b) Set the RBW = 100 kHz.
 - c) Set the VBW $\geq [3 \times \text{RBW}]$.
 - d) Detector = peak.
 - e) Sweep time = auto couple.
 - f) Trace mode = max hold.
 - g) Allow trace to fully stabilize.
 - h) Use the peak marker function to determine the maximum amplitude level.
- Then the limit shall be attenuated by at least 20 dB relative to the maximum amplitude level in 100 kHz.

7.9.6 Test Results

Remark: The measurement frequency range is from 30MHzHz 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.

7.10 ANTENNA APPLICATION

7.10.1 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.

7.10.2 Result

The EUT antenna is permanent attached PCB antenna (Gain: 0.45 dBi). It comply with the standard requirement.

8 TEST RESULTS

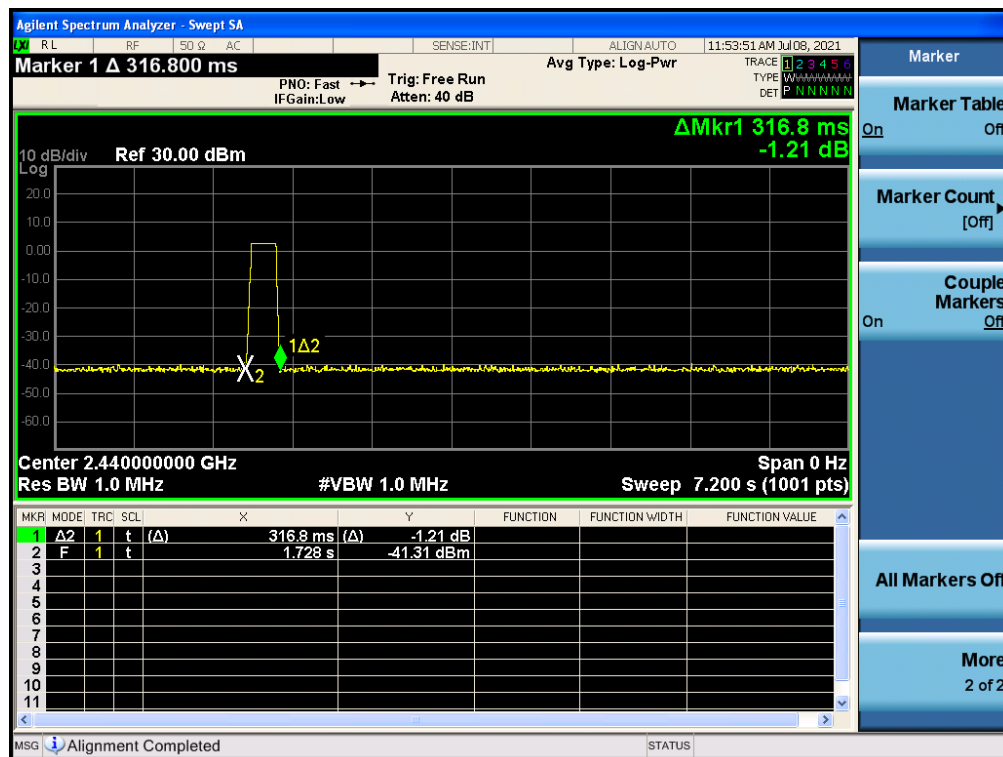
8.1 DWELL TIME

Condition	Mode	Frequency (MHz)	Pulse Time (ms)	Total Dwell Time (ms)	Limit (ms)	Verdict
NVNT	GFSK	2440	316.8	316.8	400	Pass

Note:

1. $T_{on}=316.8\text{ms}$
2. $\text{Sweep time}=0.4\text{s}\times 18=7.2\text{s}$;
3. $\text{Dwell Time(s)} = \text{Transmit Timeper Hop} \times N$.

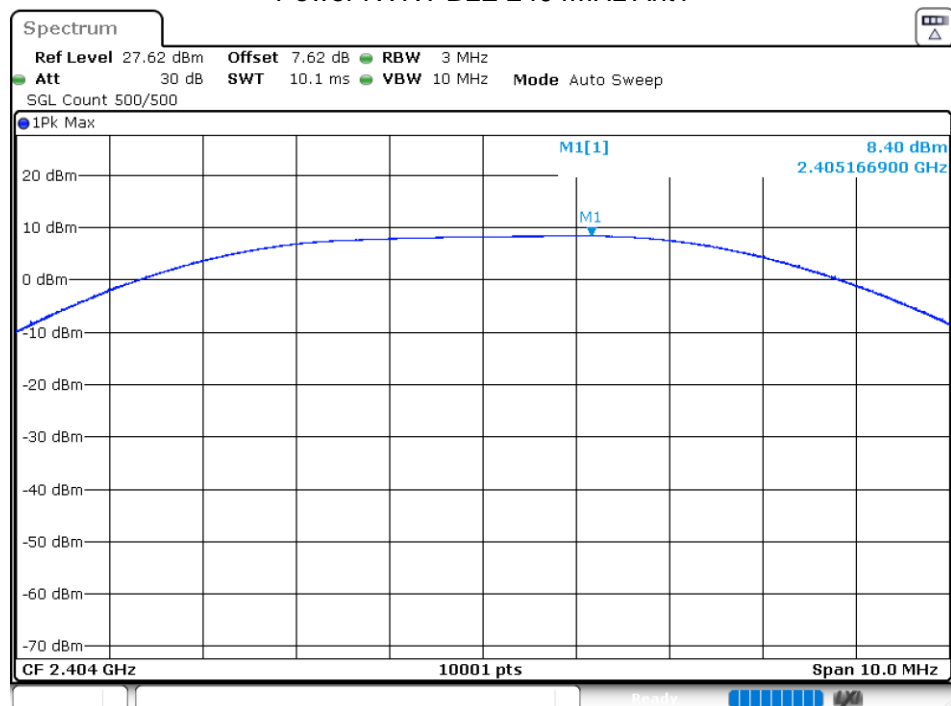
Dwell NVNT GFSK 2440MHz



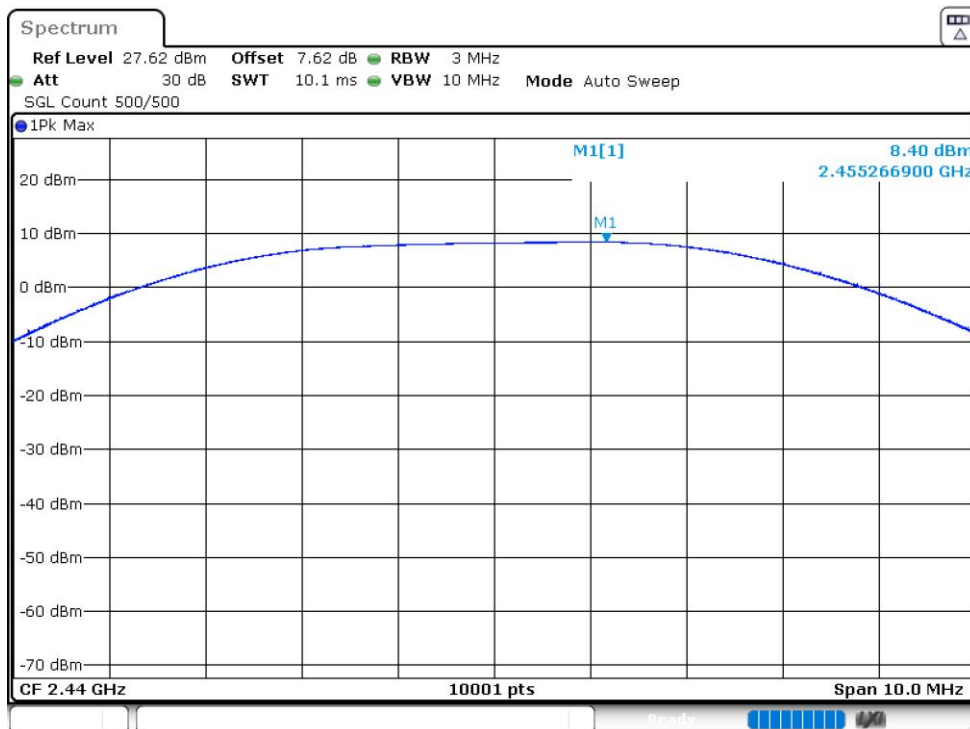
8.2 MAXIMUM CONDUCTED OUTPUT POWER

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	GFSK	2404	Ant 1	8.40	20.97	Pass
NVNT	GFSK	2440	Ant 1	8.40	20.97	Pass
NVNT	GFSK	2472	Ant 1	8.48	20.97	Pass

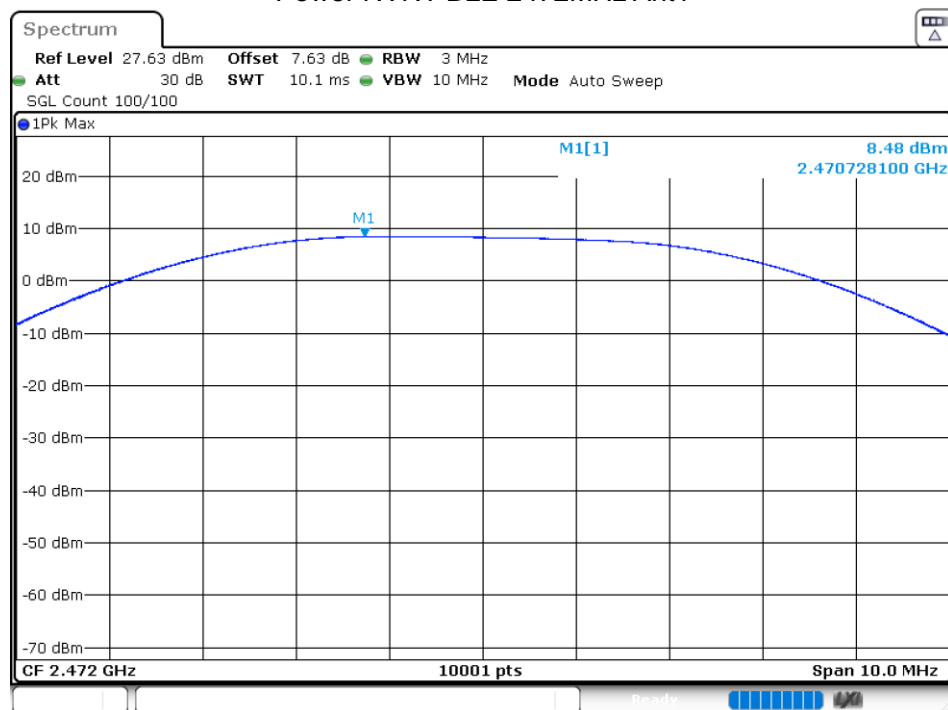
Power NVNT BLE 2404MHz Ant1



Power NVNT BLE 2440MHz Ant1



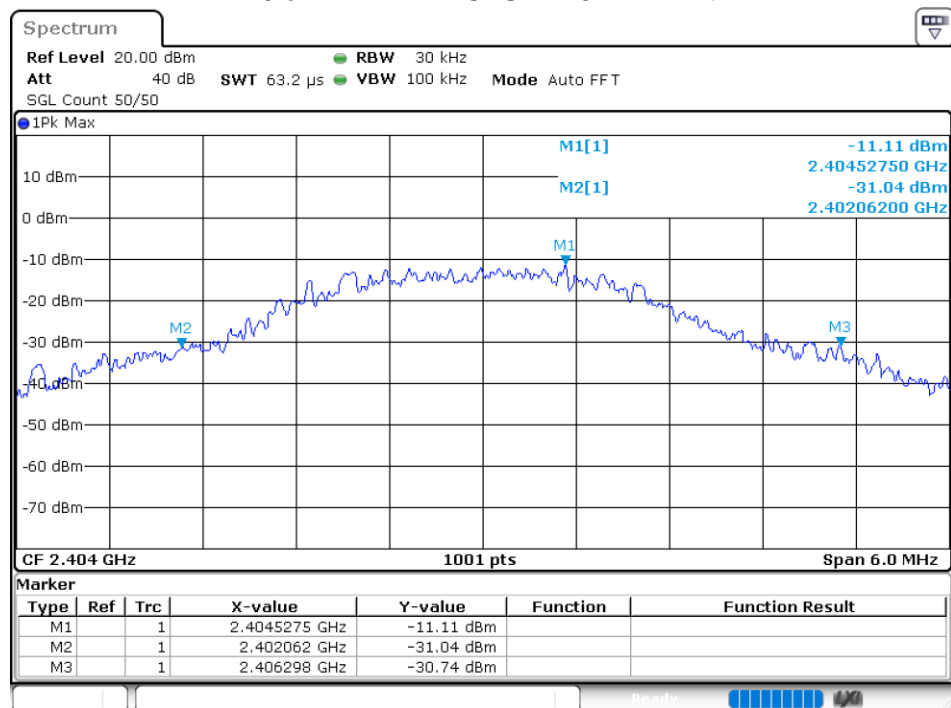
Power NVNT BLE 2472MHz Ant1



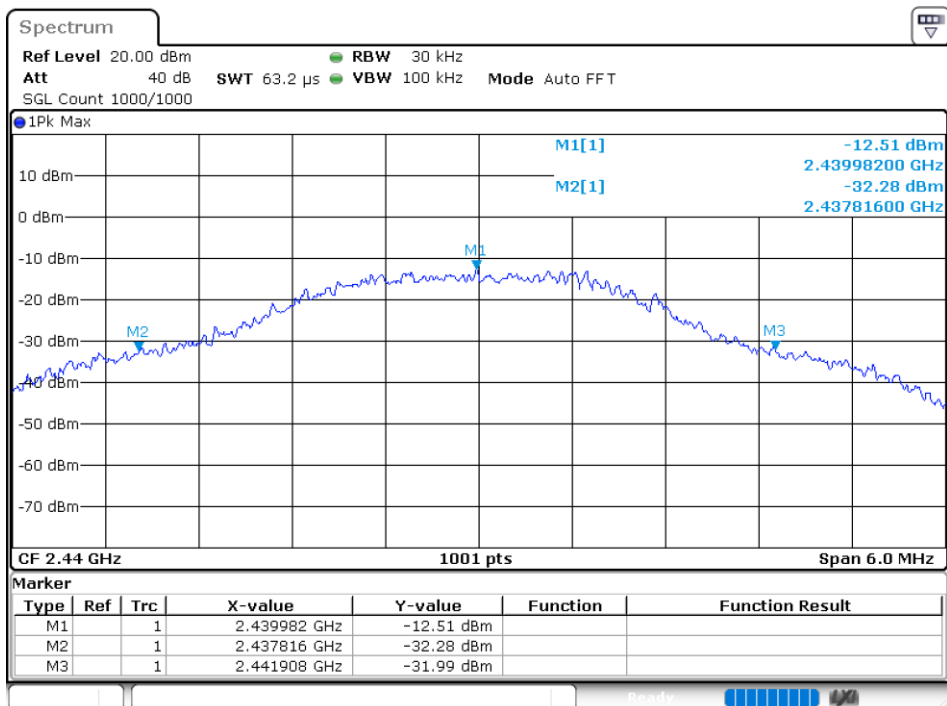
8.3 OCCUPIED CHANNEL BANDWIDTH

Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Verdict
NVNT	GFSK	2404	Ant 1	4.236	Pass
NVNT	GFSK	2440	Ant 1	4.092	Pass
NVNT	GFSK	2472	Ant 1	4.092	Pass

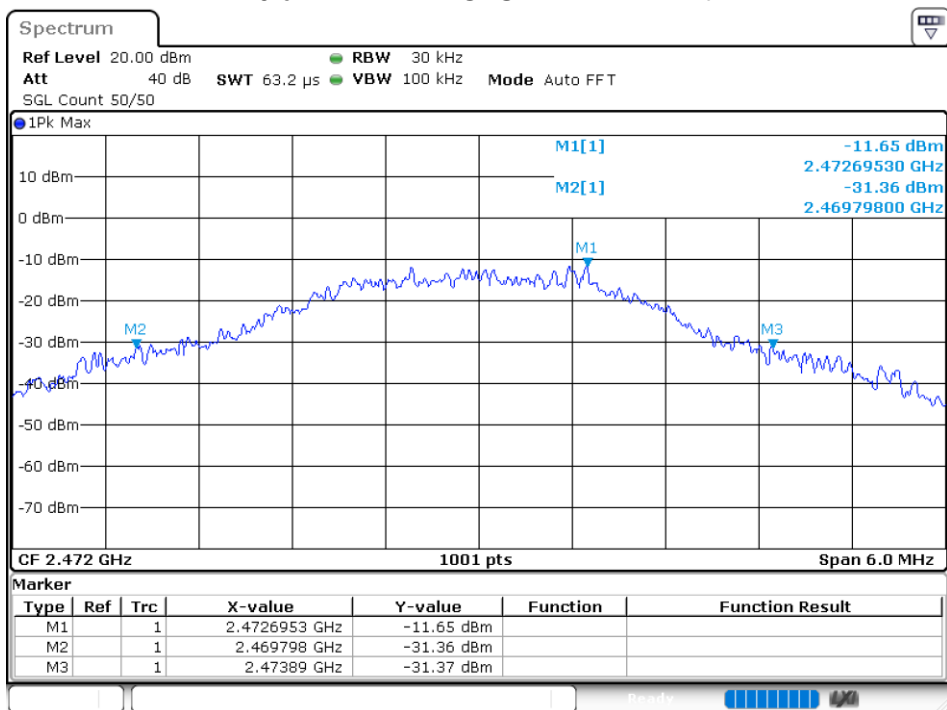
-20 dB BW NVNT GFSK 2404MHz Ant1



-20 dB BW NVNT GFSK 2440MHz Ant1



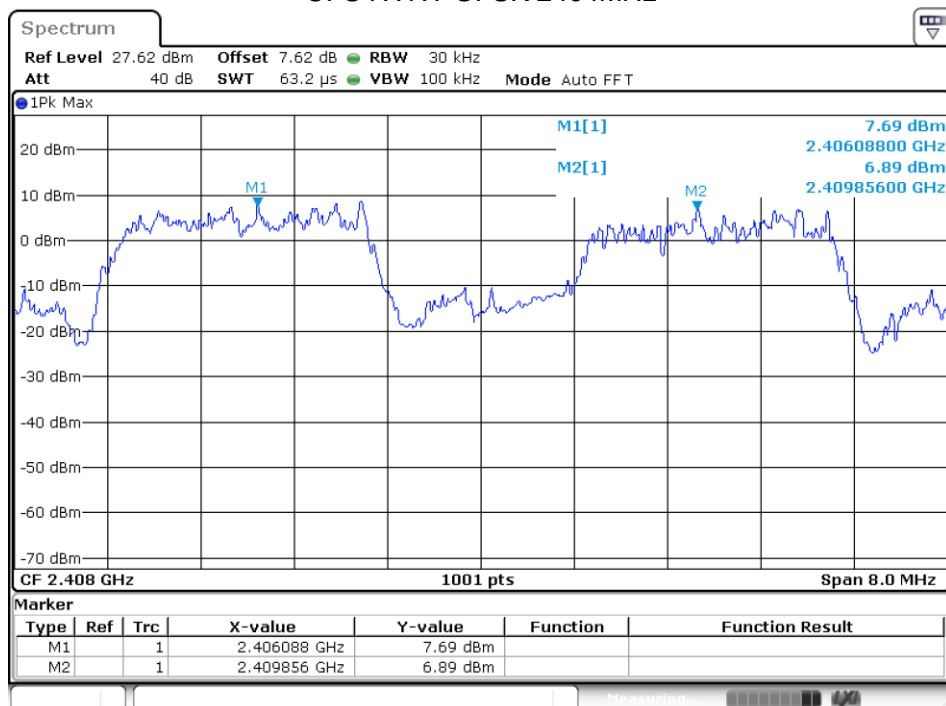
-20 dB BW NVNT GFSK 2472MHz Ant1



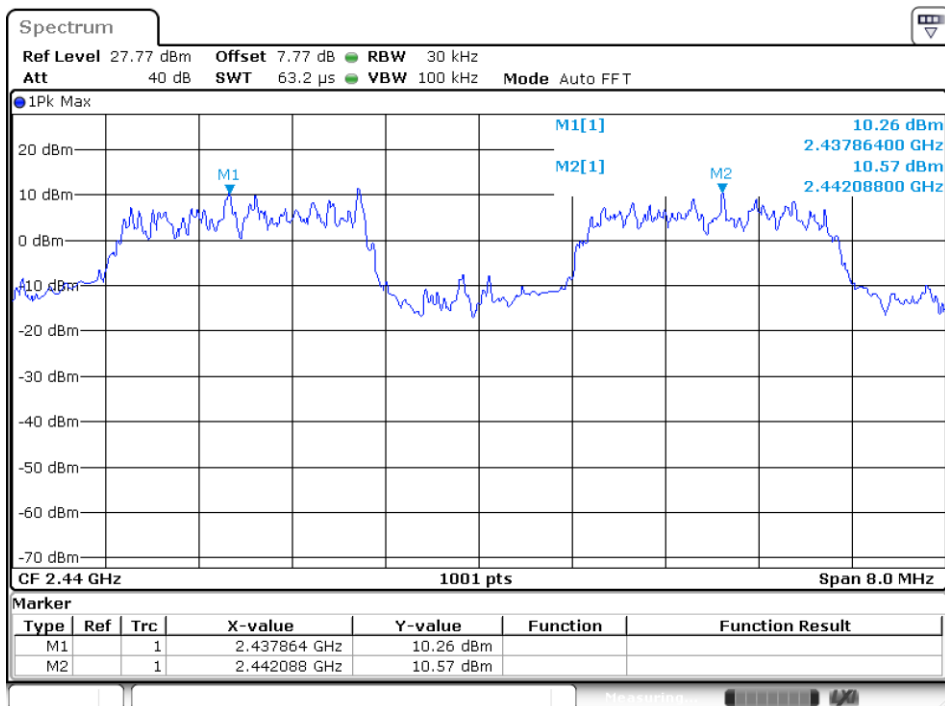
8.4 CARRIER FREQUENCIES SEPARATION

Condition	Mode	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	GFSK	2406.088	2409.856	3.768	2.824	Pass
NVNT	GFSK	2437.864	2442.088	4.224	2.728	Pass
NVNT	GFSK	2470.088	2473.808	3.72	2.728	Pass

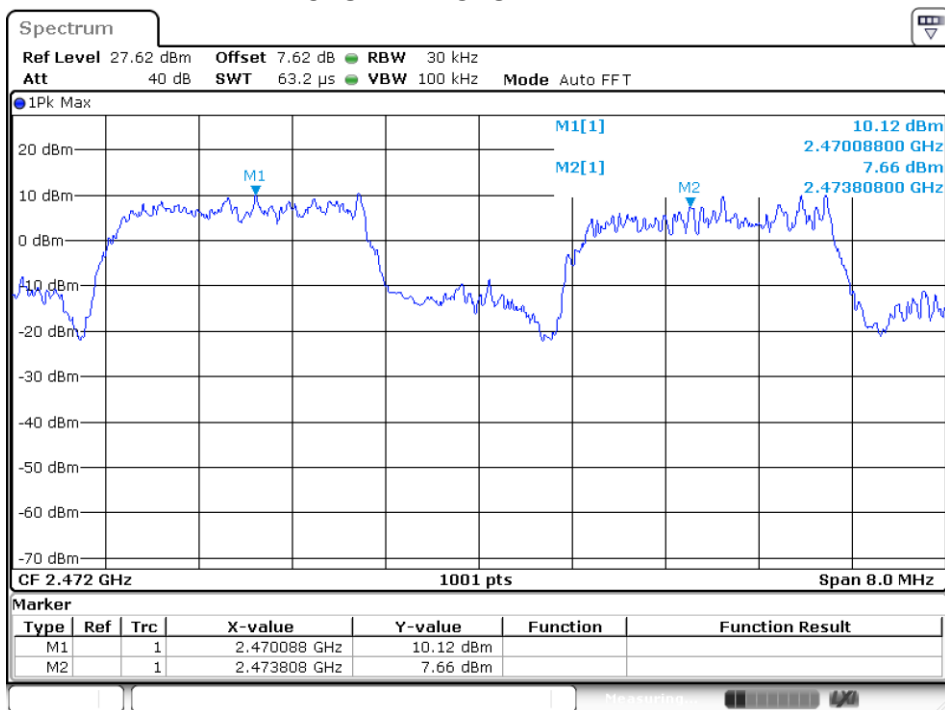
CFS NVNT GFSK 2404MHz



CFS NVNT GFSK 2440MHz



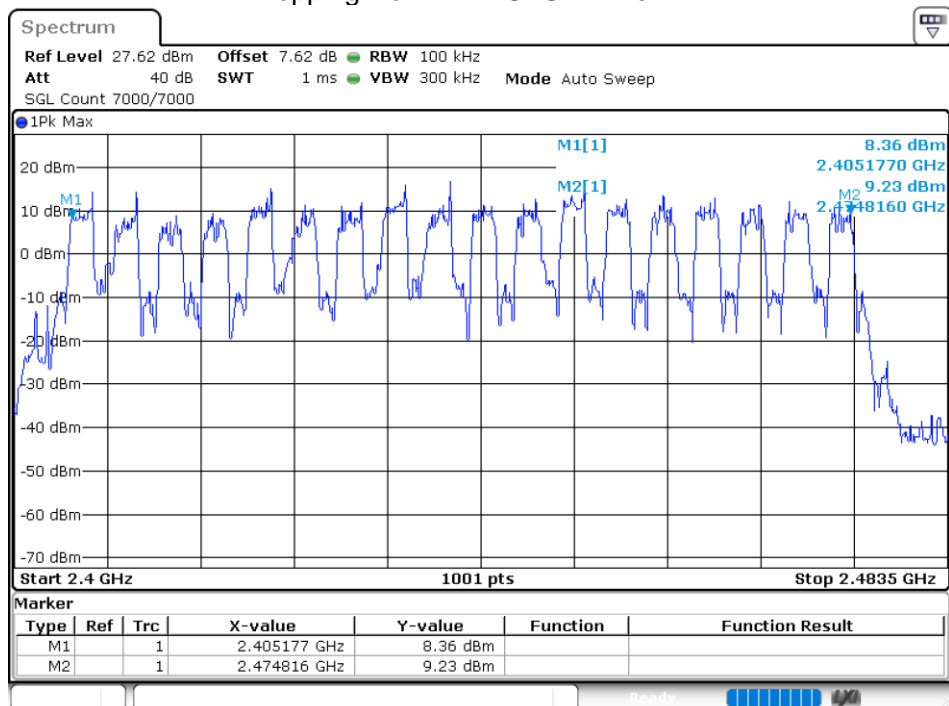
CFS NVNT GFSK 2474MHz



8.5 NUMBER OF HOPPING CHANNEL

Condition	Mode	Hopping Number	Limit	Verdict
NVNT	GFSK	18	15	Pass

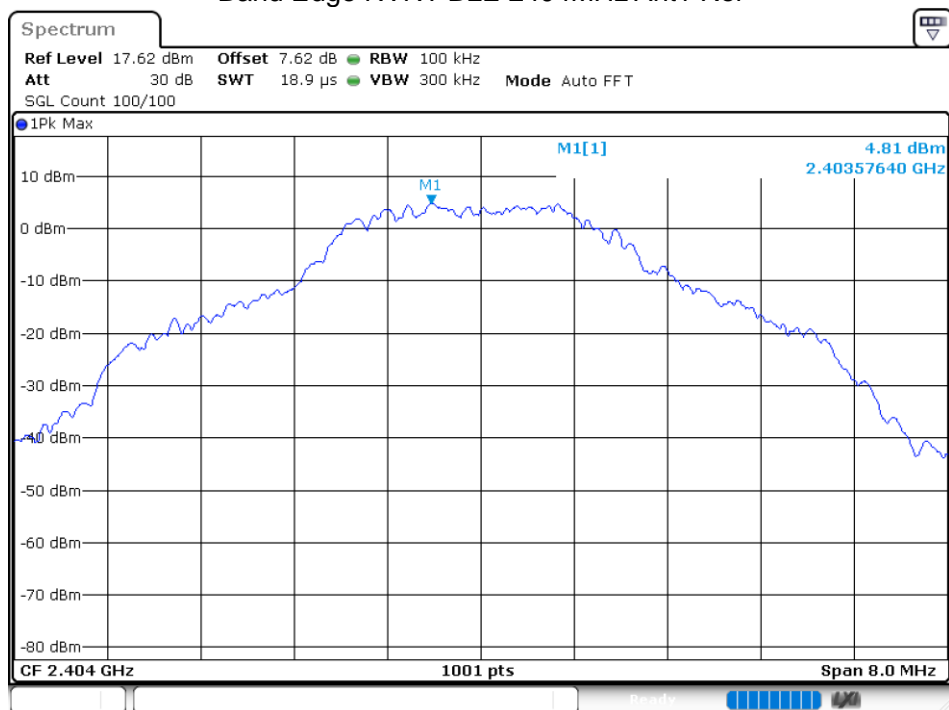
Hopping No. NVNT GFSK 2440MHz



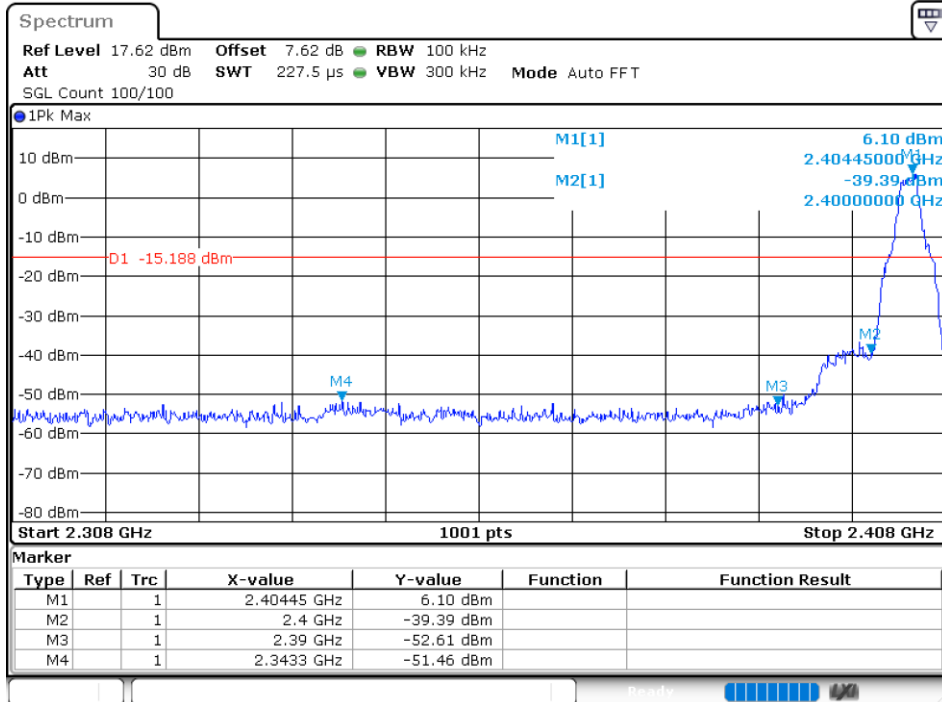
8.6 BAND EDGE

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	GFSK	2404	Ant 1	-56.26	-20	Pass
NVNT	GFSK	2472	Ant 1	-53.79	-20	Pass
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)
NVNT	GFSK	2404	Ant 1	Hopping	-57.39	-20
NVNT	GFSK	2474	Ant 1	Hopping	-55.56	-20

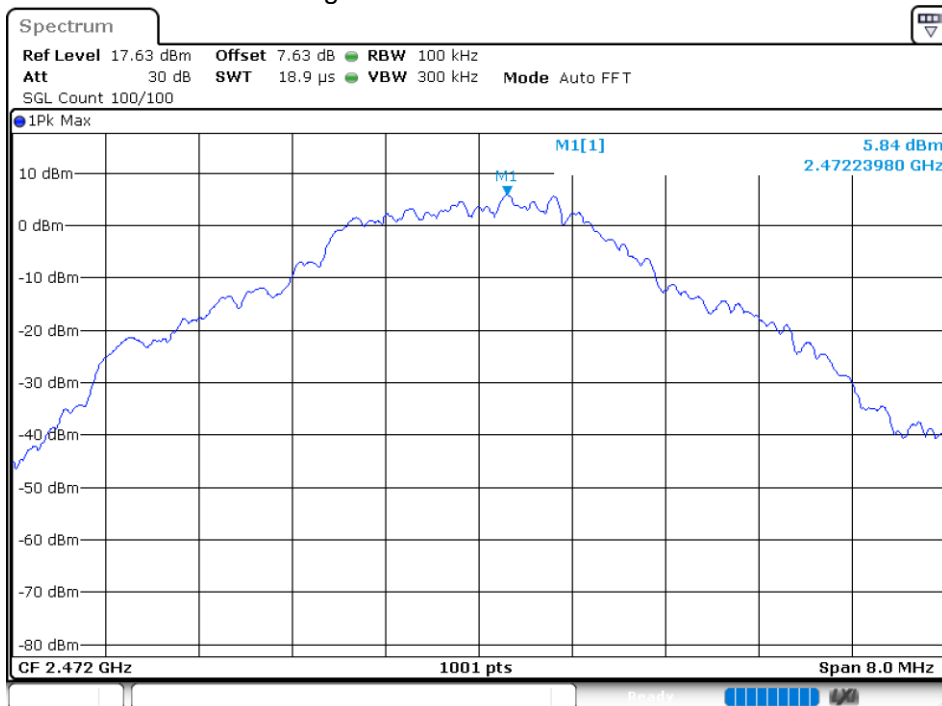
Band Edge NVNT BLE 2404MHz Ant1 Ref



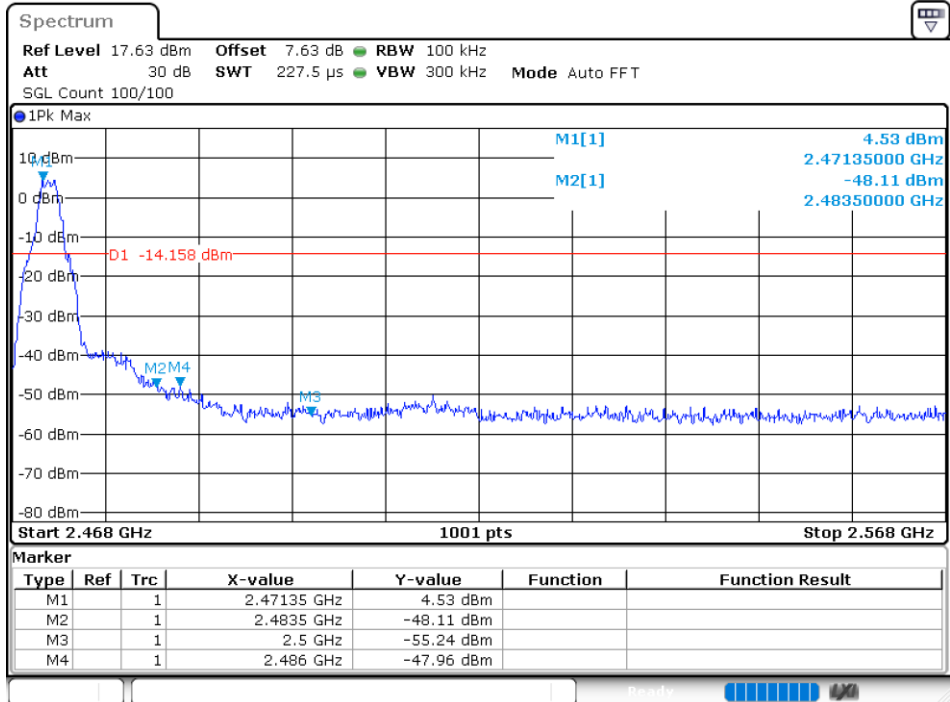
Band Edge NVNT BLE 2404MHz Ant1 Emission



Band Edge NVNT BLE 2472MHz Ant1 Ref



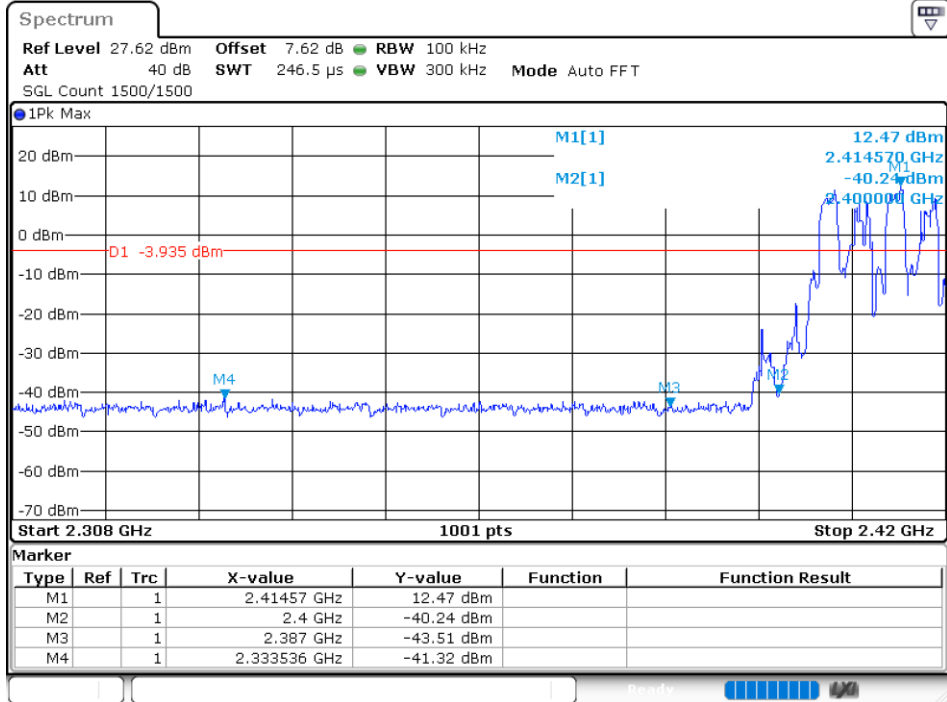
Band Edge NVNT BLE 2472MHz Ant1 Emission



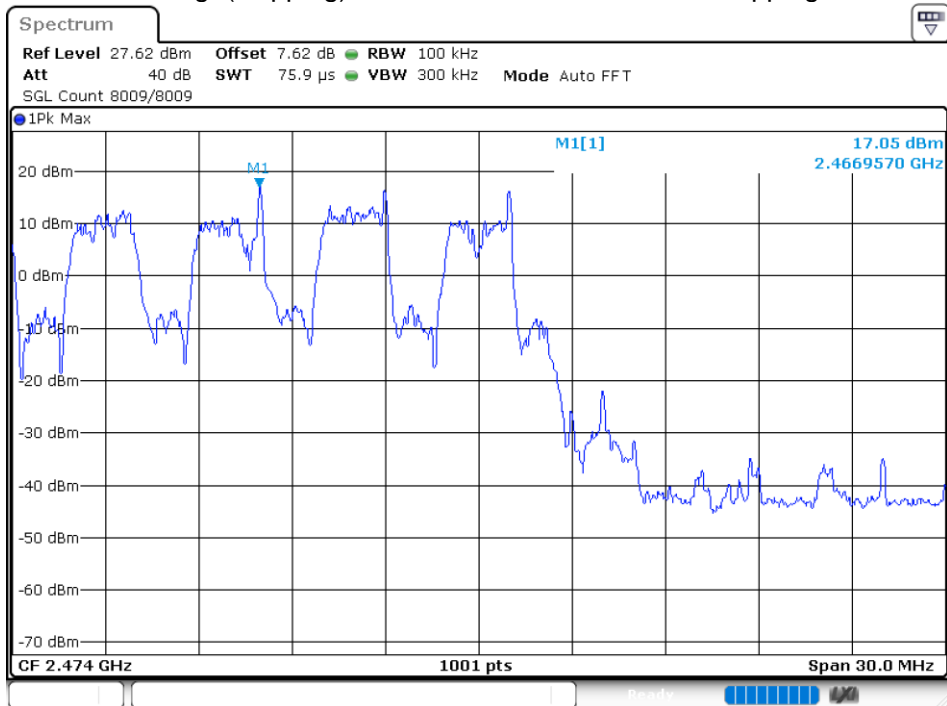
Band Edge(Hopping) NVNT GFSK 2404MHz Ant1 Hopping Ref



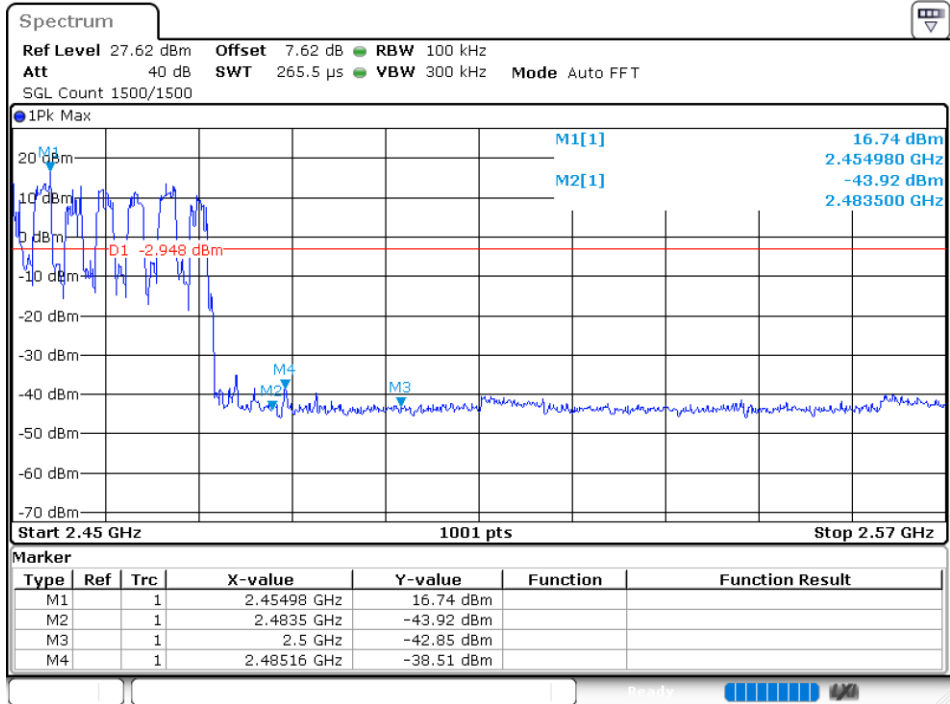
Band Edge(Hopping) NVNT GFSK 2404MHz Ant1 Hopping Emission



Band Edge(Hopping) NVNT GFSK 2474MHz Ant1 Hopping Ref



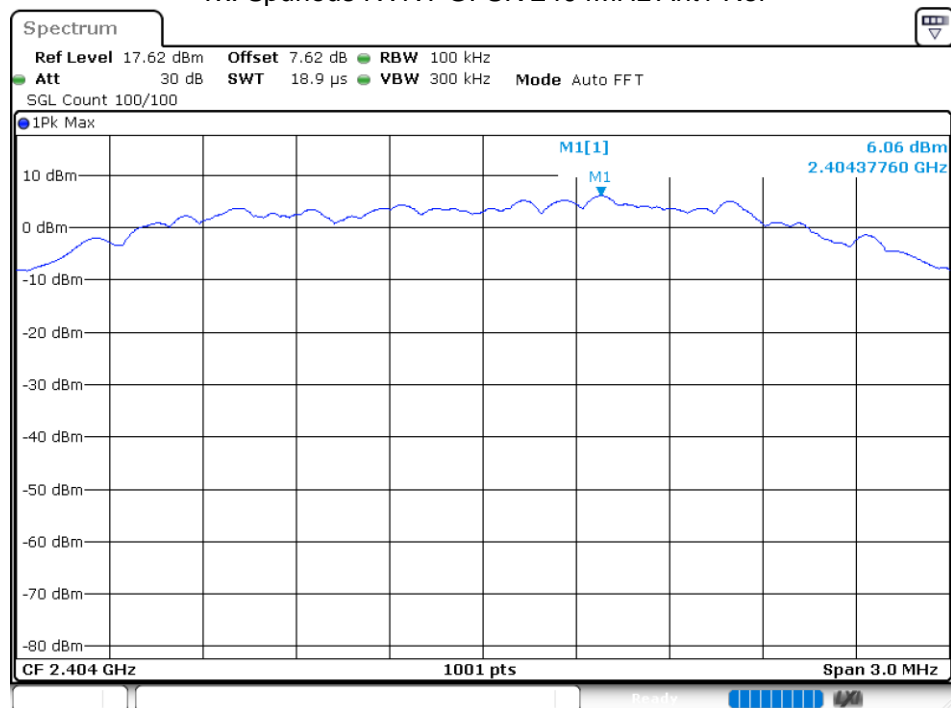
Band Edge(Hopping) NVNT GFSK 2474MHz Ant1 Hopping Emission



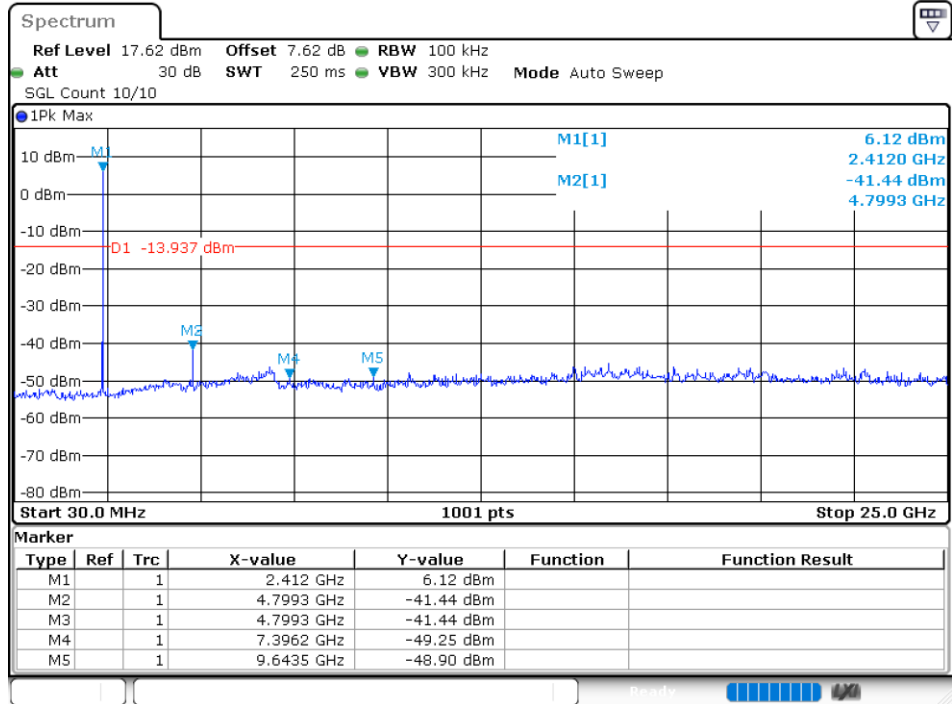
8.7 CONDUCTED RF SPURIOUS EMISSION

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	GFSK	2404	Ant 1	-47.5	-20	Pass
NVNT	GFSK	2440	Ant 1	-46.2	-20	Pass
NVNT	GFSK	2472	Ant 1	-43.62	-20	Pass

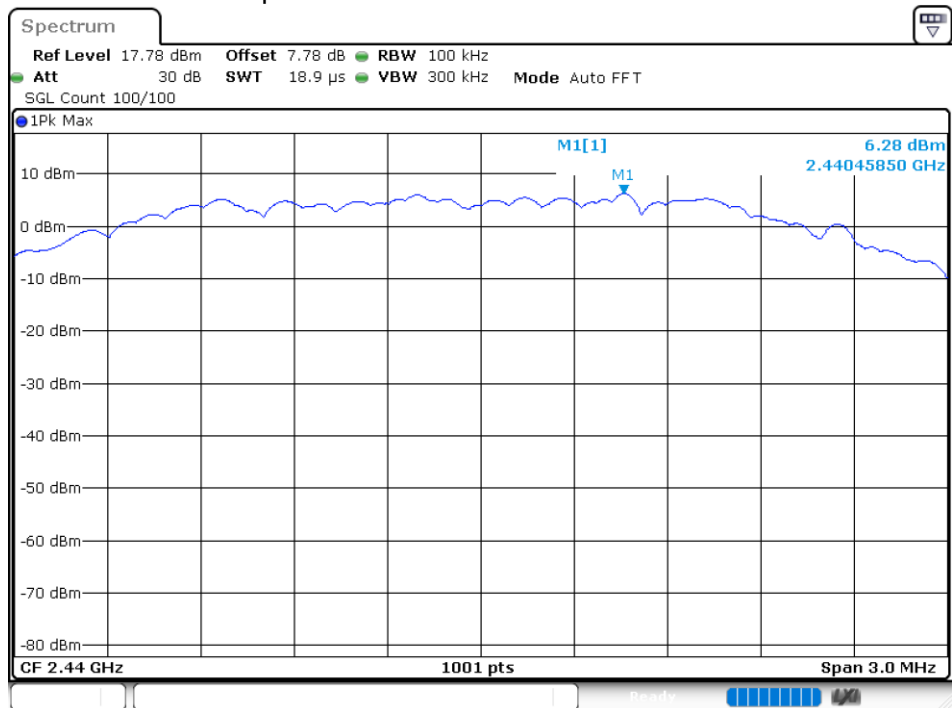
Tx. Spurious NVNT GFSK 2404MHz Ant1 Ref



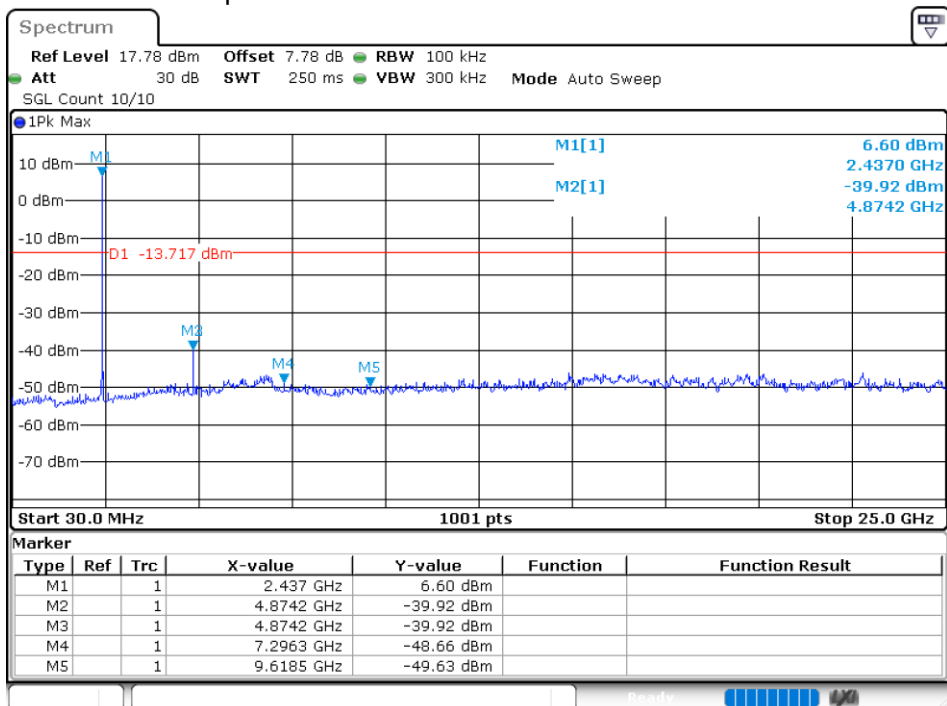
Tx. Spurious NVNT GFSK 2404MHz Ant1 Emission



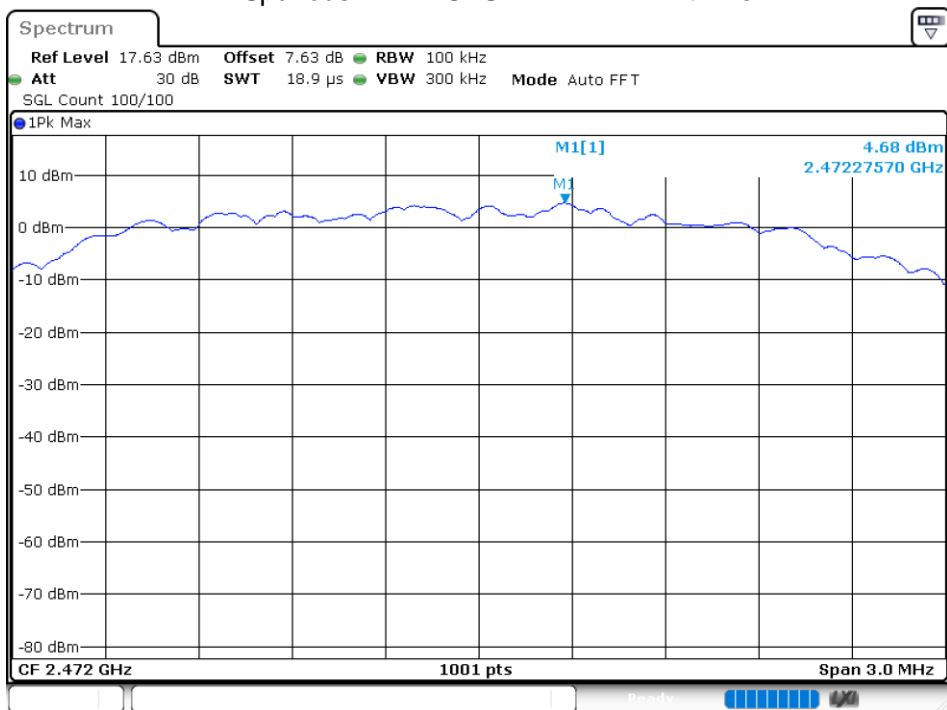
Tx. Spurious NVNT GFSK 2440MHz Ant1 Ref



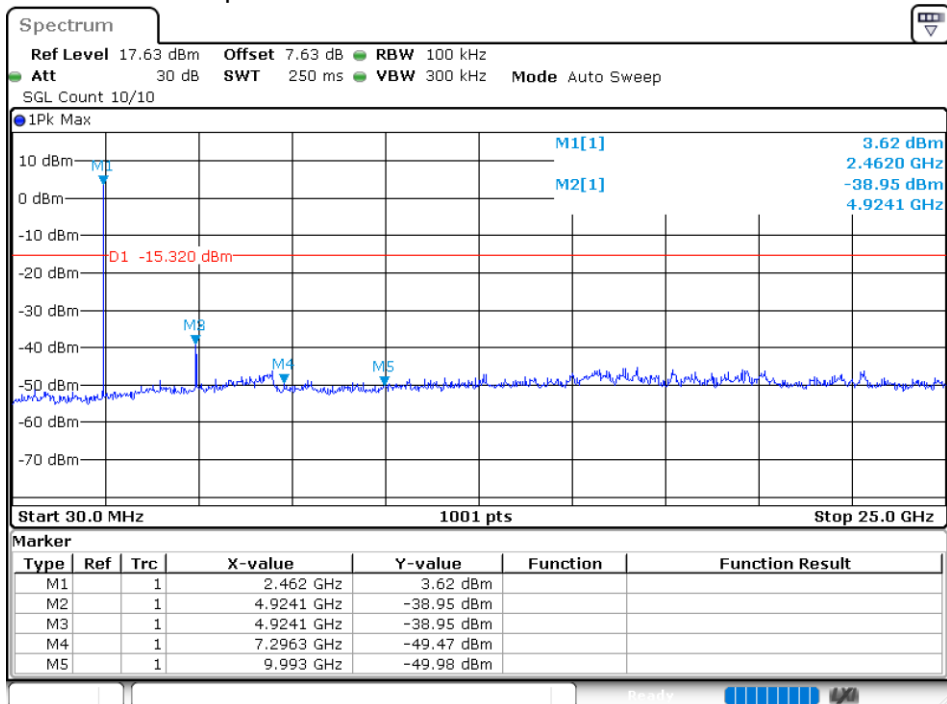
Tx. Spurious NVNT GFSK 2440MHz Ant1 Emission



Tx. Spurious NVNT GFSK 2472MHz Ant1 Ref



Tx. Spurious NVNT GFSK 2472MHz Ant1 Emission



END OF REPORT