

FCC PART 15 SUBPART C TEST REPORT

Issued By: Dongguan New Testing Centre Co., Ltd

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TEST REPORT DECLARE

FCC ID	:	2AFHW-ITSBL547
Applicant	:	INNOVATIVE TECHNOLOGY ELECTRONICS LLC
Address	:	1 CHANNEL DRIVE, PORT WASHINGTON, New York 11050, United States.
Equipment under Test	:	Groovy/ Glitter lamp with Bluetooth Speaker
Model No	:	ITSBL-547XXXX where X can be 0-9, A-Z , " -" or blank means color of unit/liquid color inside bottle and light bulb power 15-30W.
Trade Mark	:	Innovative Technology, Victrola
Manufacturer	:	DONGGUAN QIAOTOU KIT SHING LIGHTING LTD
Address	:	He Keng Qiao Tou Town Dongguan,Guangdong 523527 CHINA

Test Standard Used:

FCC Rules and Regulations Part 15 Subpart C: 2017, ANSI C63.10:2013.

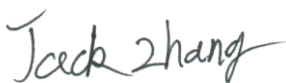
We Declare:

The equipment described above is tested by Dongguan New Testing Centre Co., Ltd and in the configuration tested the equipment complied with the standards specified above. The test results are contained in this test report and Dongguan New Testing Centre Co., Ltd is assumed of full responsibility for the accuracy and completeness of these tests.

After test and evaluation, our opinion is that the equipment provided for test compliance with the requirement of the above FCC standards.

Report No.:	NTCER1909009		
Date of Test:	Sep.2,2019 to Sep.21,2019	Date of Report:	Sep.21,2019

Prepared By:



Jack Zhang/Engineer



Neil Zhong/LAB Manager

Note: This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of Dongguan New Testing Centre Co., Ltd

1. Summary of test results

Description of Test Item	Standard	Results
Antenna Requirement	Section 15.247(c)	PASS
Conduction Emissions	Section 15.207(a)	PASS
Radiated Emissions	Section 15.247(d)	PASS
Carrier Frequencies Separated	Section 15.247(a)(1)	PASS
Hopping Channel Number	Section 15.247(a)(1) (iii)	PASS
Dwell Time	Section 15.247(a)(1) (iii)	PASS
Maximum Peak Output Power	Section 15.247(b)	PASS
Band edge	Section 15.247(d)	PASS
Conducted Spurious Emissions	Section 15.247(d)	PASS

2. General test information

2.1. Description of EUT

EUT* Name	:	Groovy/ Glitter lamp with Bluetooth Speaker
Test model	:	ITSBL-547-KBG
EUT function description	:	Please reference user manual of this device
Power supply	:	AC 120V 60Hz 35W
Trade mark	:	Innovative Technology, Victrola
Operation frequency	:	2402-2480MHz
Number of channel	:	79
Modulation Technology	:	GFSK, $\pi/4$ -DQPSK, 8DPSK(1/2/3Mbps)
Bluetooth version	:	3.0
H/W No.	:	V 2.0
S/W No.	:	V1.0
Antenna Type	:	PCB antenna
Antenna Gain	:	1.9 dBi
Sample Type	:	Series production

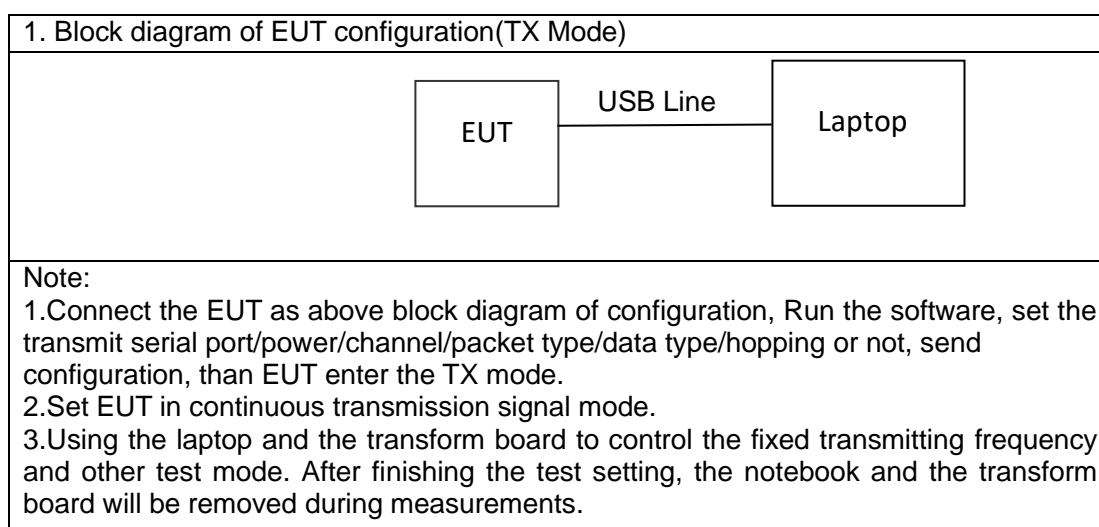
Note: 1,EUT is the ab. of equipment under test.

2.2. Detail models

Model	Rating	Note
ITSBL-547XXXX	AC 120V 60Hz 35W	ITSBL-547XXXX where X can be 0-9, A-Z, “-” or blank means color of unit/liquid color inside bottle and light bulb power 15-30W.

Note: The light bulb power is 30W for model “ITSBL-547-KBG”.

2.3. Block diagram EUT configuration for test



2.4. Test environment conditions

During the measurement the environmental conditions were within the listed ranges:

(1) E.U.T. test conditions:

15.31(e): For intentional radiators, measurements of the variation of the input power or the radiated signal level of the fundamental frequency component of the emission, as appropriate, shall be performed with the supply voltage varied between 85% and 115% of the nominal rated supply voltage. For battery operated equipment, the equipment tests shall be performed using a new battery.

(2) Test frequencies:

According to the 15.31(m) Measurements on intentional radiators or receivers, other than TV broadcast receivers, shall be performed and. If required reported for each band in which the device can be operated with the device operating at the number of frequencies in each band specified in the following table:

Frequency range over which device operates	Number of frequencies	Location in the range of operation
1 MHz or less	1	Middle
1 to 10 MHz	2	1 near top and 1 near bottom
More than 10 MHz	3	1 near top, 1 near middle and 1 near bottom

(3) Frequency range of radiated measurements:

According to the 15.33, the test range will be up to the tenth harmonic of the highest fundamental frequency.

(4) Pre-test the EUT in all transmitting mode at the lowest (2402 MHz), middle (2441 MHz) and highest (2480 MHz) channel with different data packet and conducted to determine the worst-case mode,

The radiation measurements are performed in X, Y, Z axis positioning. And found the X axis positioning which it is worse case, only the test worst case mode is recorded in the report.

2.5. Measurement uncertainty

Test Item	Uncertainty
Uncertainty for Conduction emission test	2.44dB
Uncertainty for Radiation Emission test (30MHz – 1GHz)	3.14 dB (Polarize: V)
	3.16 dB (Polarize: H)
Uncertainty for Radiation Emission test (1GHz – 18GHz)	4.27 dB (Polarize: V)
	4.51 dB (Polarize: H)
Uncertainty for conducted RF Power	0.63dB
Stop Transmitting Time Test	±0.5%
Uncertainty for frequency error	5.8 x 10-8

Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

2.6. Test Peripheral List

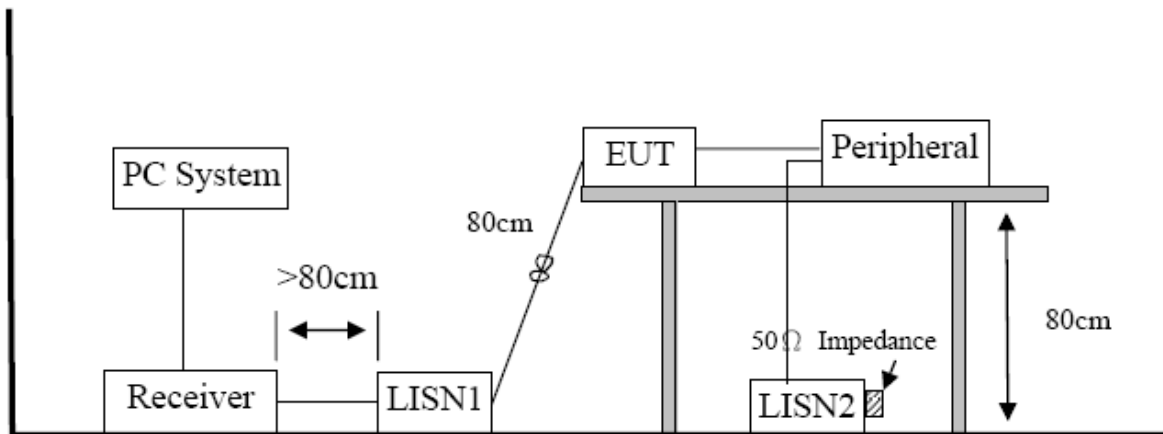
No.	Equipment	Manufacturer	FCC approved	Model No.	Serial No.	signal cable
1	Lap top	lenovo	DOC	7457	7457A82	N/A

3. Power Line Conducted Emission Test

3.1. Test equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	Test Receiver	R&S	ESCS30	8341151006	2019-05-23	1 Year
2	LISN	R&S	ENV216	3650.6550.06	2019-05-13	1 Year
3	Pulse Limiter	R&S	ESH3-Z2	0357-8810.54	2019-05-13	1 Year
4	RF Cable	HUBER	SUCOFLEX100	30722/4E	2019-05-13	1 Year
5	MEASUREMENT SOFTWARE	FARAD	EZ-EMC(VER:1.1.4.2)	N/A	N/A	N/A

3.2. BLOCK DIAGRAM OF TEST SETUP



3.3. Power Line Conducted Emission Limits (Class B)

Frequency	Quasi-Peak Level dB(μV)	Average Level dB(μV)
150kHz ~ 500kHz	66 ~ 56*	56 ~ 46*
500kHz ~ 5MHz	56	46
5MHz ~ 30MHz	60	50

Note 1: * Decreasing linearly with logarithm of frequency.

Note 2: The lower limit shall apply at the transition frequencies.

3.4. Test Procedure

The EUT and Support equipment, if needed, were put placed on a non-metallic table, 80cm above the ground plane.

Configuration EUT to simulate typical usage as described in clause 2.3 and test equipment as described in clause 3.2 of this report.

All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.

All support equipment power received from a second LISN.

Emissions were measured on each current carrying line of the EUT using an EMI Test Receiver connected to the LISN powering the EUT.

The Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.

During the above scans, the emissions were maximized by cable manipulation.

The test mode(s) described in clause 2.3 were scanned during the preliminary test.

After the preliminary scan, we found the test mode producing the highest emission level.

The EUT configuration and worse cable configuration of the above highest emission levels were recorded for reference of the final test.

EUT and support equipment were set up on the test bench as per the configuration with highest emission level in the preliminary test.

A scan was taken on both power lines, Neutral and Line, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit.

The test data of the worst-case condition(s) was recorded.

The bandwidth of test receiver is set at 9 KHz.

3.5. Test Result

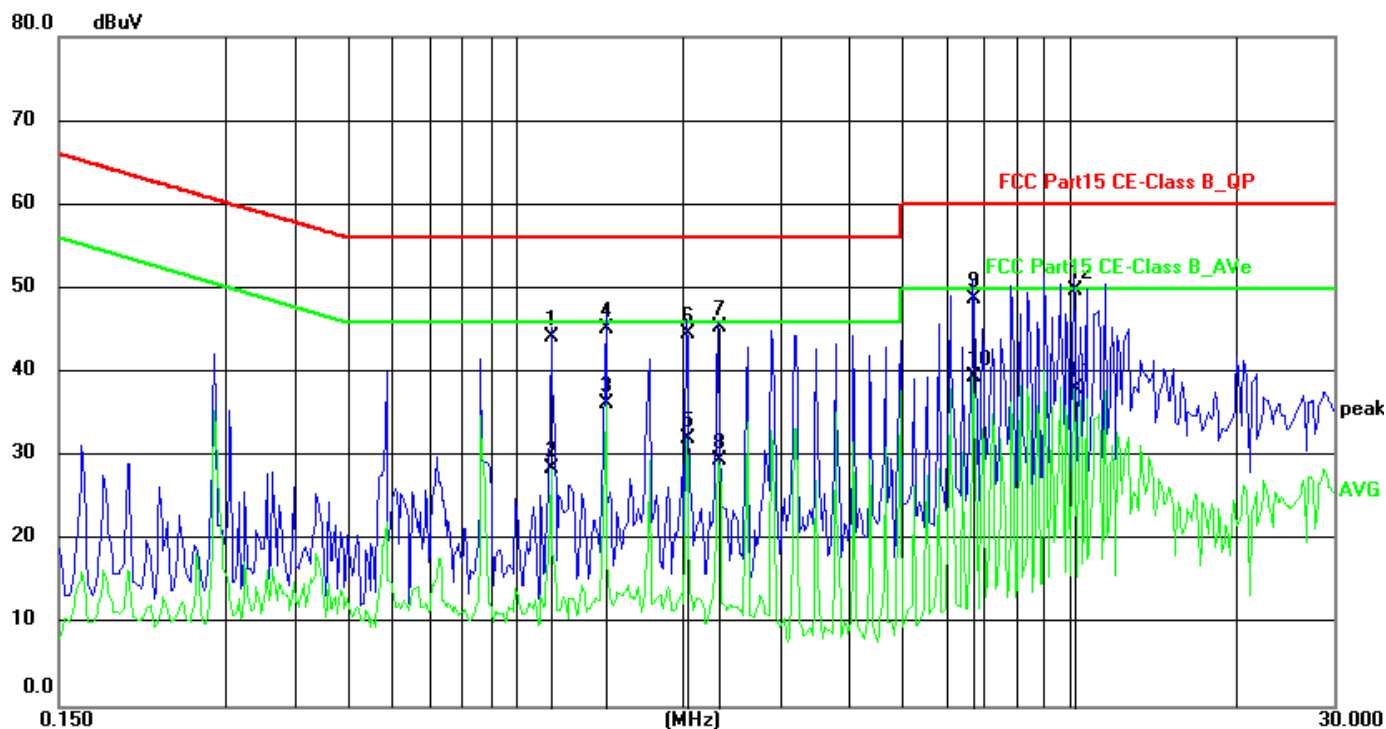
PASS. (See below detailed test result)

Note1: All emissions not reported below are too low against the prescribed limits.

Note2: "-----" means Peak detection; "-----" means Average detection

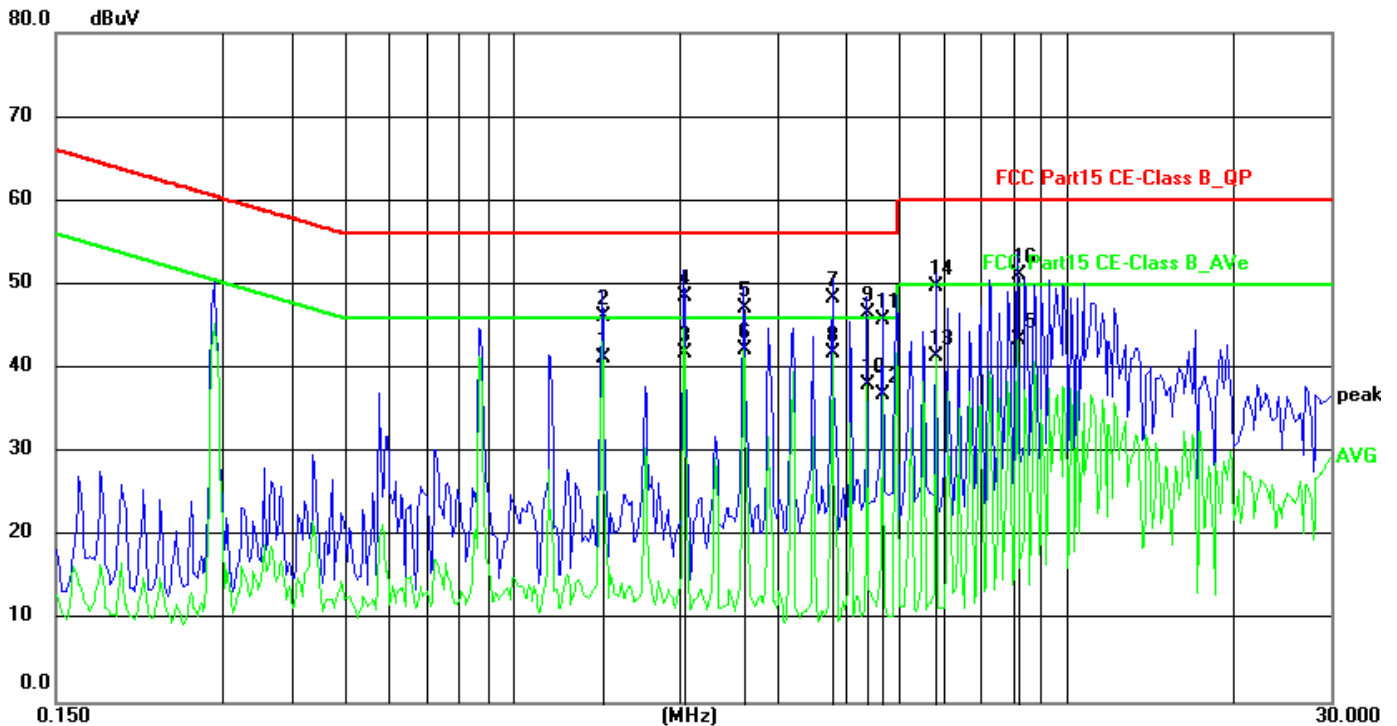
Note3: Measurement = Reading Level + Factor, Margin= Measurement-Limit

Conducted Emission Test Result



Site:	844LAB	Phase:L1	Temperature(C):24(C)
Limit:	FCC Part15 CE-Class B_QP		Humidity(%):63%
EUT:	Groovy/ Glitter lamp with Bluetooth Speaker	Test Time:	2019/9/10 13:41:21
M/N.:	ITSBL-547-KBG	Power Rating:	AC120/60Hz
Mode:	Tx mode	Test Engineer:	
Note:			

No.	Frequency (MHz)	Reading Level(dBuV)	Factor (dB)	Measure-ment(dBuV)	Limit (dBuV)	Margin (dB)	Detector	Comment
1	1.1635	34.39	9.74	44.13	56.00	-11.87	QP	
2	1.1635	18.73	9.74	28.47	46.00	-17.53	AVG	
3 *	1.4559	26.38	9.85	36.23	46.00	-9.77	AVG	
4	1.4565	35.35	9.85	45.20	56.00	-10.80	QP	
5	2.0375	22.02	10.05	32.07	46.00	-13.93	AVG	
6	2.0376	34.58	10.05	44.63	56.00	-11.37	QP	
7	2.3262	35.27	10.05	45.32	56.00	-10.68	QP	
8	2.3262	19.37	10.05	29.42	46.00	-16.58	AVG	
9	6.7167	38.61	10.07	48.68	60.00	-11.32	QP	
10	6.7167	29.26	10.07	39.33	50.00	-10.67	AVG	
11	10.1951	27.92	10.08	38.00	50.00	-12.00	AVG	
12	10.1955	39.74	10.08	49.82	60.00	-10.18	QP	



Site:	844LAB	Phase:	N	Temperature(C):	24(C)
Limit:	FCC Part15 CE-Class B_QP	Test Time:		Humidity(%):	63%
EUT:	Groovy/ Glitter lamp with Bluetooth Speaker	Power Rating:	AC120/60Hz		
M/N.:	ITSBL-547-KBG	Test Engineer:			
Mode:	Tx mode				
Note:					

No.	Frequency (MHz)	Reading Level(dBuV)	Factor (dB)	Measure-ment(dBuV)	Limit (dBuV)	Margin (dB)	Detector	Comment
1	1.4522	31.42	9.85	41.27	46.00	-4.73	AVG	
2	1.4526	36.40	9.85	46.25	56.00	-9.75	QP	
3	2.0375	31.65	10.05	41.70	46.00	-4.30	AVG	
4	2.0376	38.40	10.05	48.45	56.00	-7.55	QP	
5	2.6187	37.07	10.05	47.12	56.00	-8.88	QP	
6 *	2.6187	32.17	10.05	42.22	46.00	-3.78	AVG	
7	3.7839	38.36	10.05	48.41	56.00	-7.59	QP	
8	3.7839	31.73	10.05	41.78	46.00	-4.22	AVG	
9	4.3727	36.47	10.05	46.52	56.00	-9.48	QP	
10	4.3727	27.99	10.05	38.04	46.00	-7.96	AVG	
11	4.6614	35.62	10.05	45.67	56.00	-10.33	QP	
12	4.6614	26.70	10.05	36.75	46.00	-9.25	AVG	
13	5.8234	31.24	10.06	41.30	50.00	-8.70	AVG	
14	5.8236	39.76	10.06	49.82	60.00	-10.18	QP	
15	8.1516	33.31	10.07	43.38	50.00	-6.62	AVG	
16	8.1519	40.95	10.07	51.02	60.00	-8.98	QP	

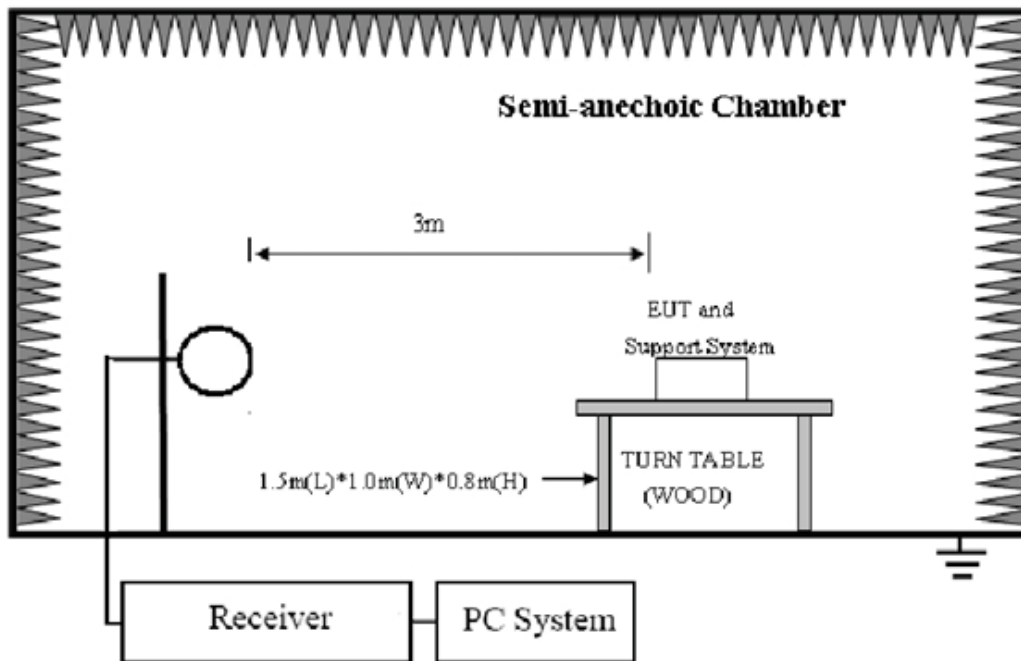
4. Radiated emission test

4.1. Test equipment

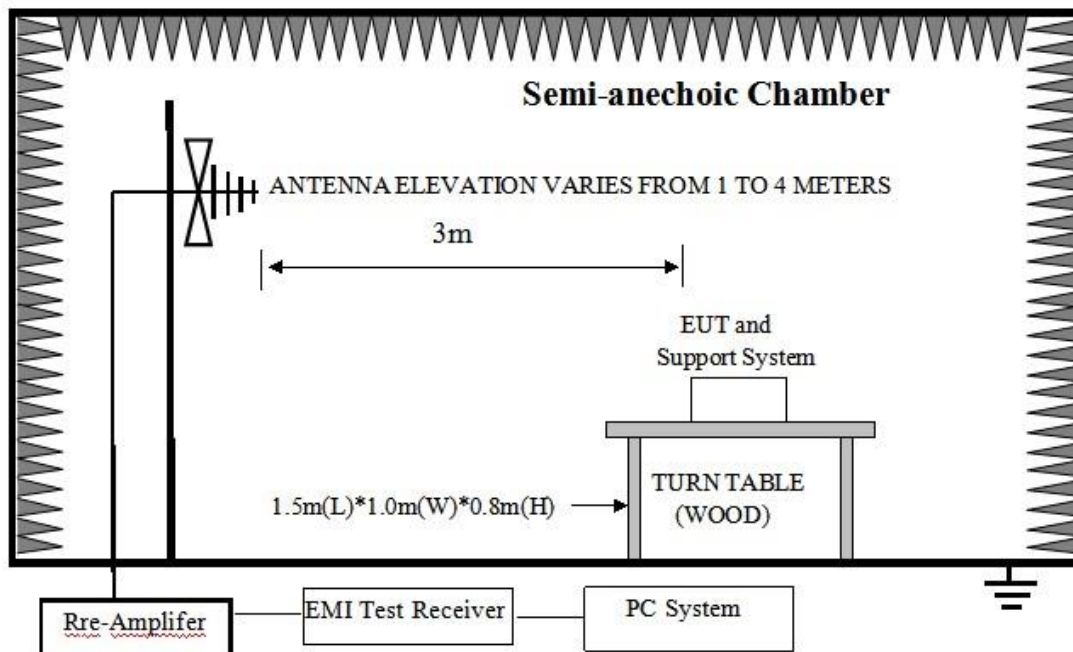
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	EMI Test Receiver	R&S	ESR	7250-30406 7528	2019-04-30	1Year
2	Trilog Broadband Antenna	Schwarzbeck	VULB9168	00969	2019-06-14	2 Year
3	Pre-amplifier	R&S	8447F	3113A04553	2019-05-13	1Year
4	Active Loop antenna	Schwarzbeck	FMZB-1519	1519-038	2019-05-23	1Year
5	Horn antenna	Schwarzbeck	BBHA9120D	453	2019-05-23	2Year
6	Double Ridged Horn Antenna	A.H. System	SAS-574	584	2019-05-23	1Year
7	Pre-amplifier	R&S	SCU18	105326	2019-05-23	1Year
8	RF Cable	GORE	OSQ01Q010 78.7	SN1545847 3	2019-05-23	1Year
9	RF Cable	GORE	OSQ01Q010 78.7	SN1545847 4	2019/5/14	1Year
10	RF Cable	ESCO	ETS-LINGR EN	RFC-SMS-1 00-SMS-340 -IN	2019-05-23	1Year
11	Measurement software	Farad	EZ-EMC(VE R:1.1.4.2)	N/A	N/A	N/A

4.2. Block diagram of test setup

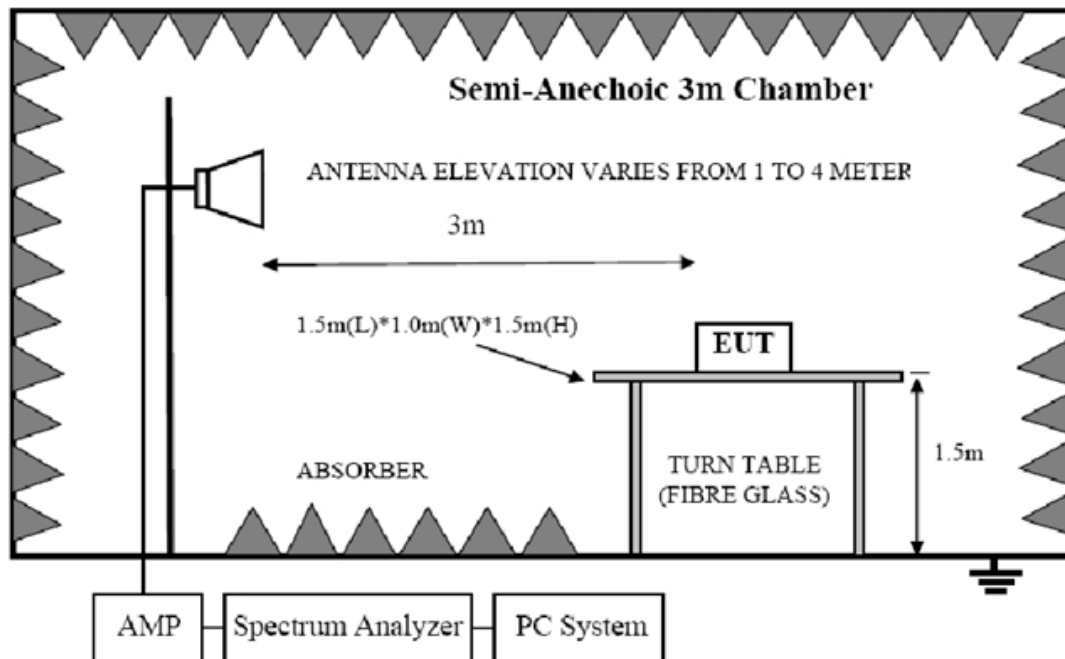
In 3m Anechoic Chamber Test Setup Diagram for 9KHz to 30MHz:



In 3m Anechoic Chamber Test Setup Diagram for 30MHz to 1GHz:



In 3m Anechoic Chamber Test Setup Diagram for frequency above 1GHz:



4.3. Limit

FCC 15.205 Restricted frequency band:

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

FCC 15.109 Limit

Frequency (MHz)	Distance (Meters)	Field Strengths Limits dB(μV)/m
30--88	3	40.0
88--216	3	43.5
216--960	3	46.0
960--1000	3	54.0
Above 1GHz	3	Peak: 74.0
	3	Average: 54.0

Note: (1) The smaller limit shall apply at the cross point between two frequency bands.

(2) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

(3) The emission limits shown in the above table are based on measurements employing a CISPR QP detector except for the frequency bands 9-90KHz, 110-490KHz and above 1000MHz. Radiated emissions limits in these three bands are based on measurements employing an average detector.

(4) At frequencies below 30MHz, measurement may be performed at a distance closer than that specified, and the limit at closer measurement distance can be extrapolated by below formula:

$$\text{Limit}_{3\text{m}}(\text{dB}\mu\text{V}/\text{m}) = \text{Limit}_{30\text{m}}(\text{dB}\mu\text{V}/\text{m}) + 40\text{Log}(30\text{m}/3\text{m})$$

(5) All the emissions appearing within 15.205 restricted frequency bands shall not exceed the limits shown in 15.109, all the other emissions shall be at least 20dB below the fundamental emissions, or comply with 15.109 limits.

4.4. Test Procedure

Procedure of Preliminary Test

Configuration EUT to simulate typical usage as described in clause 2.3 and test equipment as described in clause 4.2 of this report.

Mains cables, telephone lines or other connections to auxiliary equipment located outside the test are shall drape to the floor, be fitted with ferrite clamps or ferrite tubes placed on the floor at the point where the cable reaches the floor and then routed to the place where they leave the turntable. No extension cords shall be used to mains receptacle.

EUT height should be 0.8m for below 1GHz and 1.5m for above 1GHz at ground with absorbers.

The antenna was placed at 3 meter away from the EUT as stated in ANSI C63.10. The antenna connected to the Spectrum Analyzer via a cable and at times a pre-amplifier would be used.

The Analyzer / Receiver quickly scanned from 30MHz to 18GHz. The EUT test program was started. Emissions were scanned and measured rotating the EUT to 360 degrees and positioning the antenna 1 to 4 meters above the ground plane, in both the vertical and the horizontal polarization, to maximize the emission reading level.

The X, Y, Z three axial are tested and the report only the worst case.

The emissions from 9KHz to 1GHz, QP or average values were measured with EMI receiver with below RBW:

Frequency band	RBW
9KHz-150KHz	200Hz
150KHz-30MHz	9KHz
30MHz-1GHz	120KHz

For emissions above 1GHz, both Peak and Average level were measured with Spectrum Analyzer, and the RBW is set at 1MHz, VBW is set at 3MHz for Peak measure; RMS detector RBW 1MHz VBW 3MHz for Average measure.

4.5. Test result

PASS. (See below detailed test result)

All the emissions except fundamental emission from 9 KHz to 40GHz were comply with FCC PART 15.109 limits limit.

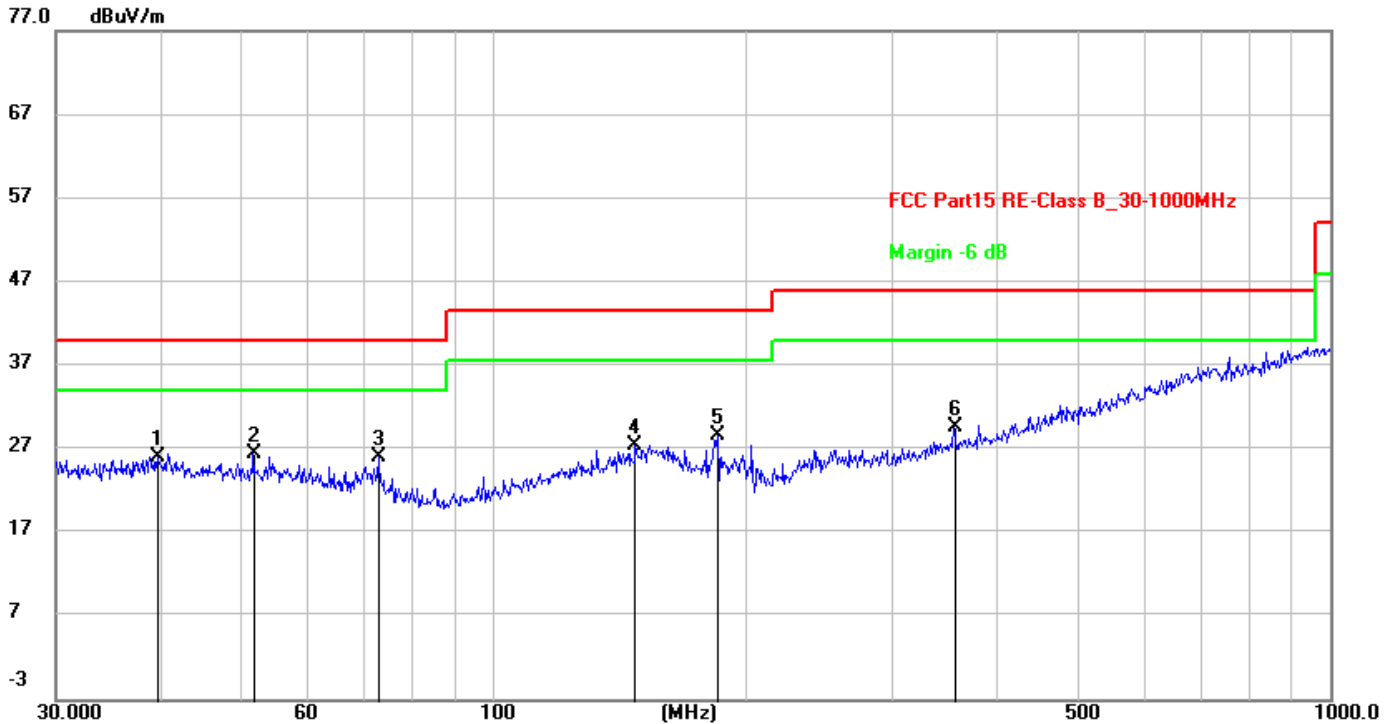
Note1: According exploratory test no any obvious emission were detected from 9KHz to 30MHz and

18GHz to 40GHz, so the final test was performed with frequency range from 30MHz to 18GHz and recorded in below.

Note2: For emissions above 1GHz. If peak results comply with AV limit, AV Result is deemed to comply with AV limit.

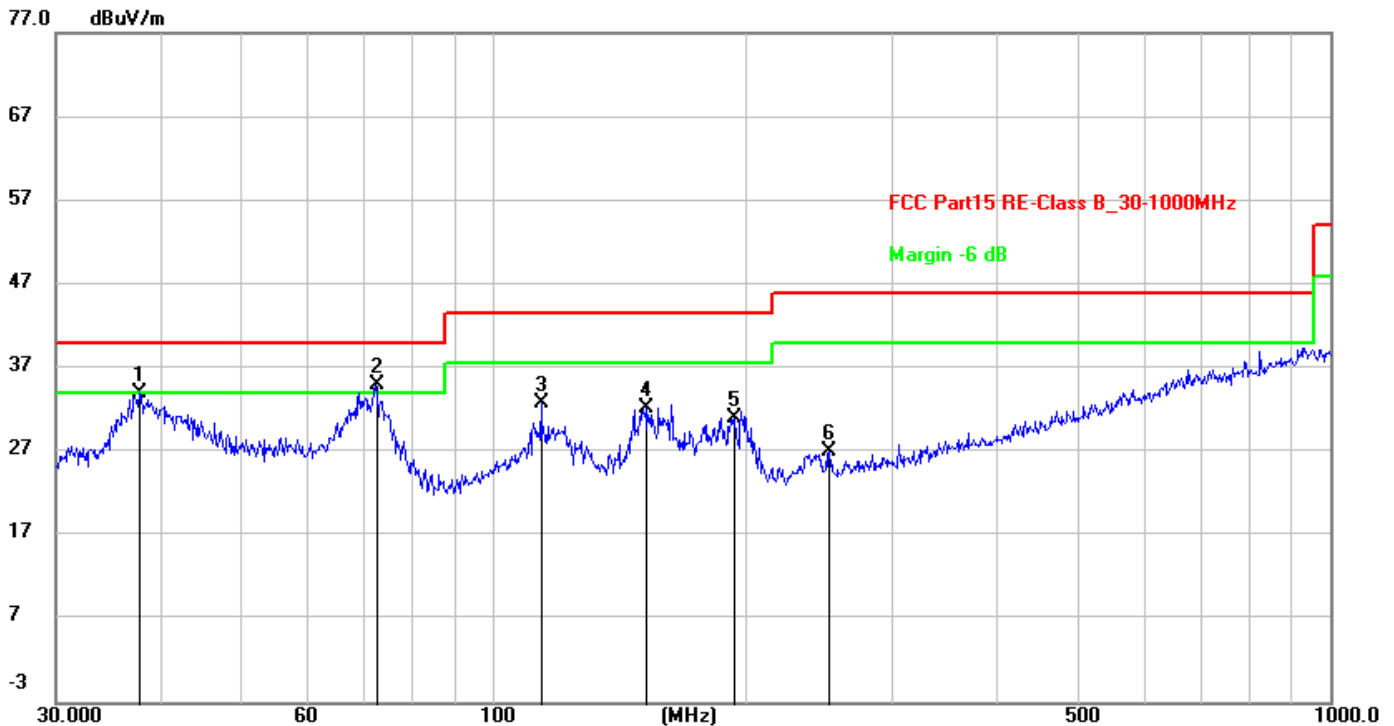
Note3: Level = Reading Level + Factor, Margin= Level-Limit

Radiated Emission Test Result



Site:	966LAB	Antenna::Horizontal	Temperature(C):24(C)
Limit:	FCC Part15 RE _30~1000MHz		Humidity(%):60%
EUT:	Groovy/ Glitter lamp with Bluetooth Speaker	Test Time:	2019/9/10 13:55:35
M/N.:	ITSBL-547-KBG	Power Rating:	AC 120V/60Hz
Mode:	Tx mode	Test Engineer:	
Note:			

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)	Remark
1	39.7146	11.37	14.79	26.16	40.00	-13.84	peak	100	45	
2	51.6616	12.27	14.22	26.49	40.00	-13.51	peak	200	356	
*										
3	72.8466	14.79	11.34	26.13	40.00	-13.87	peak	100	54	
4	147.9214	12.22	15.30	27.52	43.50	-15.98	peak	200	246	
5	185.7882	16.33	12.38	28.71	43.50	-14.79	peak	100	104	
6	355.4273	13.96	15.77	29.73	46.00	-16.27	peak	100	356	



Site:	966LAB	Antenna::Vertical	Temperature(C):24(C)
Limit:	FCC Part15 RE_30-1000MHz		Humidity(%):60%
EUT:	Groovy/ Glitter lamp with Bluetooth Speaker	Test Time:	2019/9/10 13:58:36
M/N.:	ITSBL-547-KBG	Power Rating:	AC 120V/60Hz
Mode:	Tx mode	Test Engineer:	
Note:			

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)	Remark
1	37.8121	19.41	14.52	33.93	40.00	-6.07	peak	200	278	
2	72.3376	23.57	11.41	34.98	40.00	-5.02	peak	100	4	
*										
3	114.1138	20.05	12.74	32.79	43.50	-10.71	peak	100	294	
4	152.1297	16.68	15.46	32.14	43.50	-11.36	peak	100	89	
5	194.4534	19.33	11.64	30.97	43.50	-12.53	peak	100	140	
6	252.0627	13.82	13.23	27.05	46.00	-18.95	peak	100	205	

EUT:	Groovy/ Glitter lamp with Bluetooth Speaker	Model Name :	ITSBL-547-KBG
Temperature:	25 °C	Test Engineer	Jack
Pressure:	1010 hPa	Relative Humidity:	60%
Test Mode :	3Mbps (worst)	Test Voltage :	AC 120V, 60Hz
Measurement Distance	3 m	Frequency Range	1GHz to 25GHz
RBW/VBW	Spurious emission: 1MHz/3MHz for Peak, 1MHz/10Hz for Average, PK detector is for them all.		

(a) Antenna polarization: Horizontal

Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over (dB)	Detector Type
2390.00	51.42	4.68	56.10	74.00	-17.90	peak
2390.00	35.74	4.68	40.42	54.00	-13.58	AVG
4804.00	50.01	5.06	55.07	74.00	-18.93	peak
4804.00	38.82	5.06	43.88	54.00	-10.12	AVG
7206.00	44.67	7.03	51.70	74.00	-22.30	peak
7206.00	33.17	7.03	40.20	54.00	-13.80	AVG

(b) Antenna polarization: Vertical

Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over (dB)	Detector Type
2390.00	48.82	4.68	53.50	74.00	-20.50	peak
2390.00	36.04	4.68	40.72	54.00	-13.28	AVG
4804.00	50.05	5.06	55.11	74.00	-18.89	peak
4804.00	39.77	5.06	44.83	54.00	-9.17	AVG
7206.00	45.15	7.03	52.18	74.00	-21.82	peak
7206.00	33.29	7.03	40.32	54.00	-13.68	AVG

Note:

8~25GHz at least have 20dB margin. No recording in the test report.

Measurement Level = Reading Level + Factor

Remark: Factor = Antenna Factor + Cable Loss–Pre-amplifier

Lowest Channel: 2402 MHz

Data rate: 3Mbps

(a) Antenna polarization: Horizontal

Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over (dB)	Detector Type
4882.00	51.20	5.14	56.34	74.00	-17.66	peak
4882.00	40.90	5.14	46.04	54.00	-7.96	AVG
7323.00	43.76	7.54	51.30	74.00	-22.70	peak
7323.00	31.96	7.54	39.50	54.00	-14.50	AVG

(b) Antenna polarization: Vertical

Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over (dB)	Detector Type
4882.00	50.02	5.14	55.16	74.00	-18.84	peak
4882.00	39.61	5.14	44.75	54.00	-9.25	AVG
7323.00	44.63	7.54	52.17	74.00	-21.83	peak
7323.00	33.03	7.54	40.57	54.00	-13.43	AVG

Note:

8~25GHz at least have 20dB margin. No recording in the test report.

Measurement Level = Reading Level + Factor

Remark: Factor = Antenna Factor + Cable Loss–Pre-amplifier

Middle Channel: 2441 MHz

Data rate: 3Mbps

(a) Antenna polarization: Horizontal

Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over (dB)	Detector Type
2483.50	50.39	4.71	55.10	74.00	-18.90	peak
2483.50	38.27	4.71	42.98	54.00	-11.02	AVG
4960.00	49.67	5.22	54.89	74.00	-19.11	peak
4960.00	38.50	5.22	43.72	54.00	-10.28	AVG
7440.00	43.55	8.06	51.61	74.00	-22.39	peak
7440.00	32.54	8.06	40.60	54.00	-13.40	AVG

(b) Antenna polarization: Vertical

Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over (dB)	Detector Type
2483.50	51.49	4.71	56.20	74.00	-17.80	peak
2483.50	40.82	4.71	45.53	54.00	-8.47	AVG
4960.00	49.76	5.22	54.98	74.00	-19.02	peak
4960.00	38.48	5.22	43.70	54.00	-10.30	AVG
7440.00	43.56	8.06	51.62	74.00	-22.38	peak
7440.00	32.66	8.06	40.72	54.00	-13.28	AVG

Note:

8~25GHz at least have 20dB margin. No recording in the test report.

Measurement Level = Reading Level + Factor

Remark: Factor = Antenna Factor + Cable Loss–Pre-amplifier

Highest channel: 2480 MHz

Data rate: 3Mbps

5. Maximum Peak Output Power

5.1. Applied procedures / Limit

15.247(a) (1) 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 2400–2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW.

15.247(b) (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.

5.2. Test procedure

- (1) Connected the antenna port to the Spectrum Analyzer, set the Spectrum Analyzer as
Span = approximately 5 times the 20 dB bandwidth, centered on a hopping channel
RBW > the 20 dB bandwidth of the emission being measured, VBW ≥ RBW, Sweep = auto
Detector function = peak, Trace = max hold
- (2) The EUT should be transmitting at its maximum data rate. Allow the trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission. The indicated level is the peak output power.
- (3) The above procedure shall be repeated at the lowest, the middle, and the highest frequency of the stated frequency range with modulated mode. Also shall be performed at different modes of operation.

5.3. Deviation from standard

No deviation.

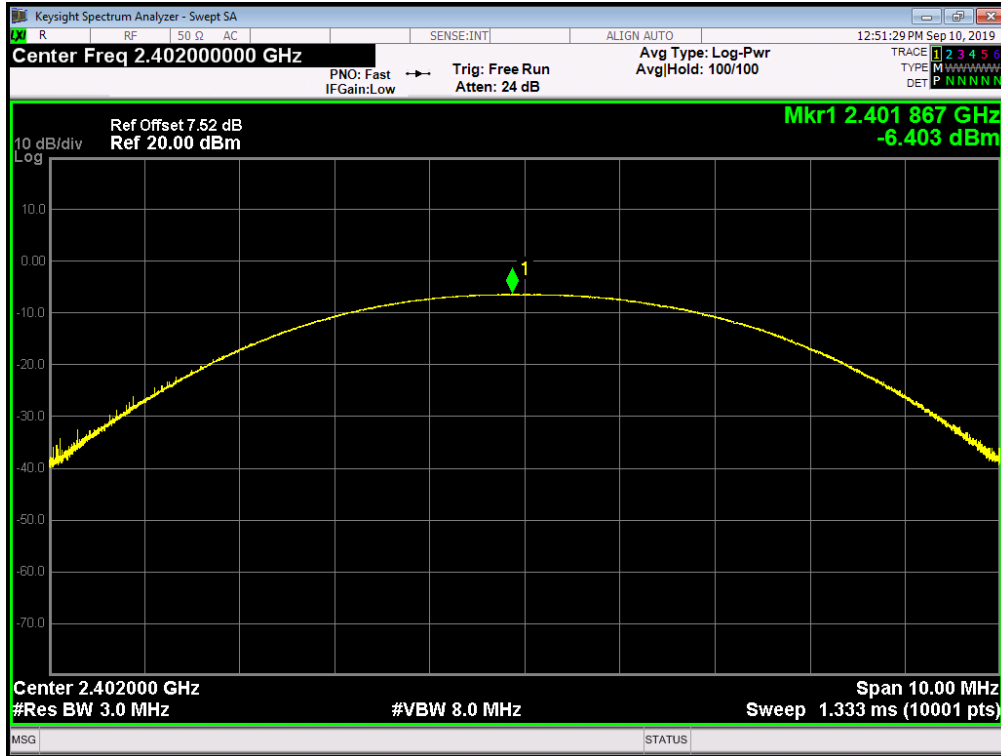
5.4. Test setup



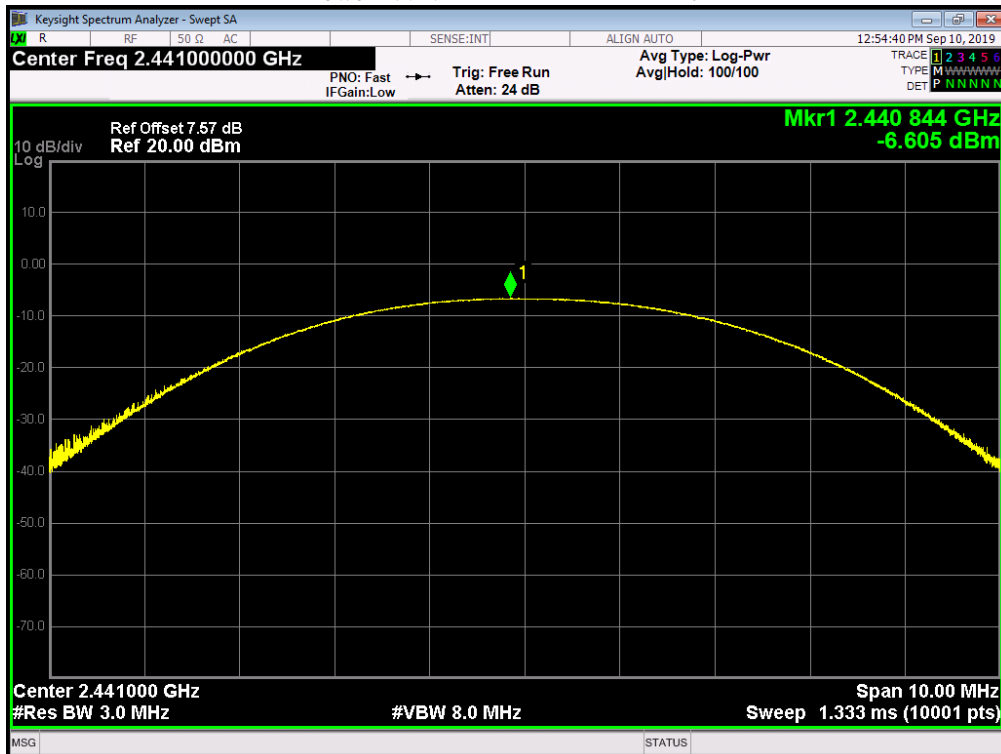
5.5. TEST RESULTS

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH1	2402	Ant 1	-6.403	0	-6.403	21	Pass
NVNT	1-DH1	2441	Ant 1	-6.605	0	-6.605	21	Pass
NVNT	1-DH1	2480	Ant 1	-5.737	0	-5.737	21	Pass

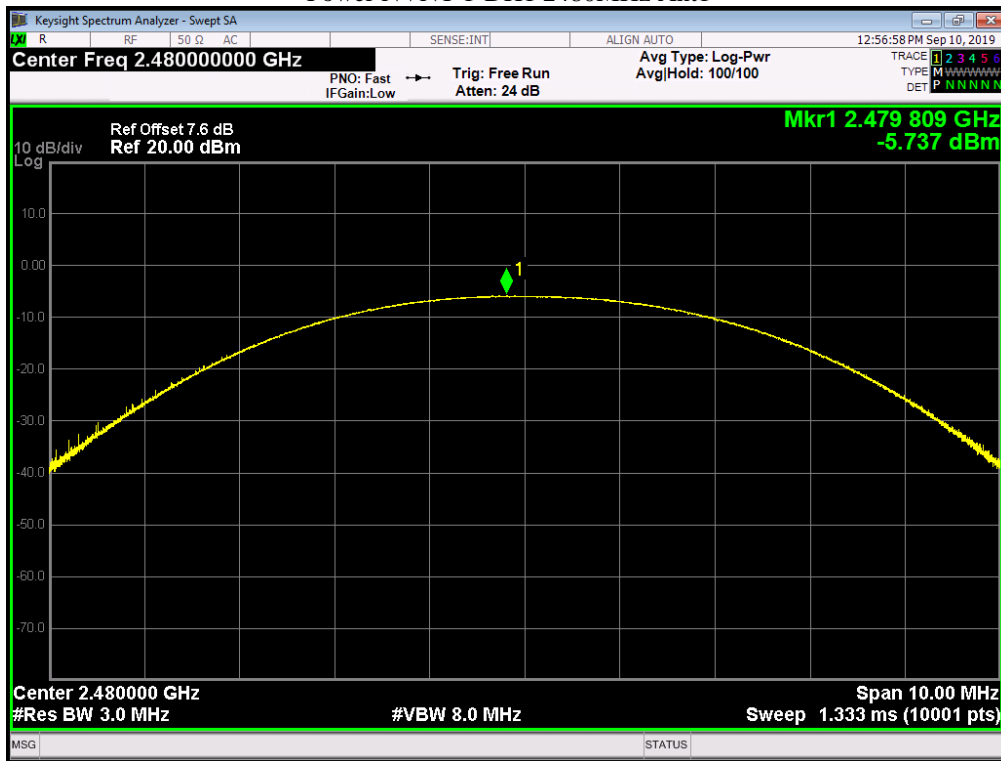
Power NVNT 1-DH1 2402MHz Ant1



Power NVNT 1-DH1 2441MHz Ant1

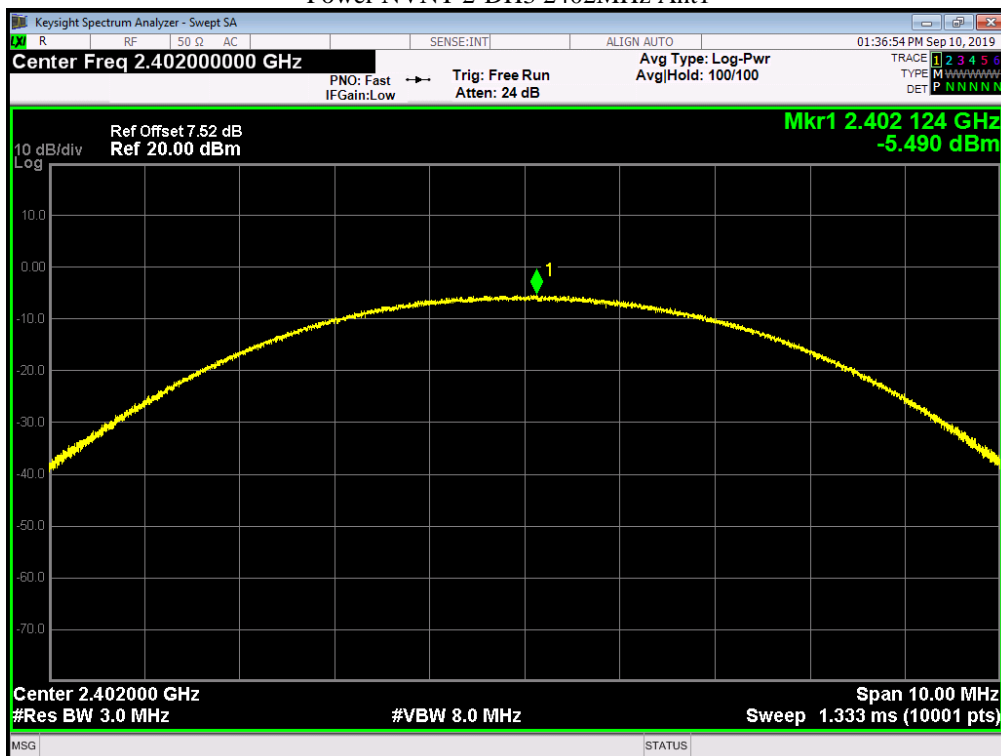


Power NVNT 1-DH1 2480MHz Ant1

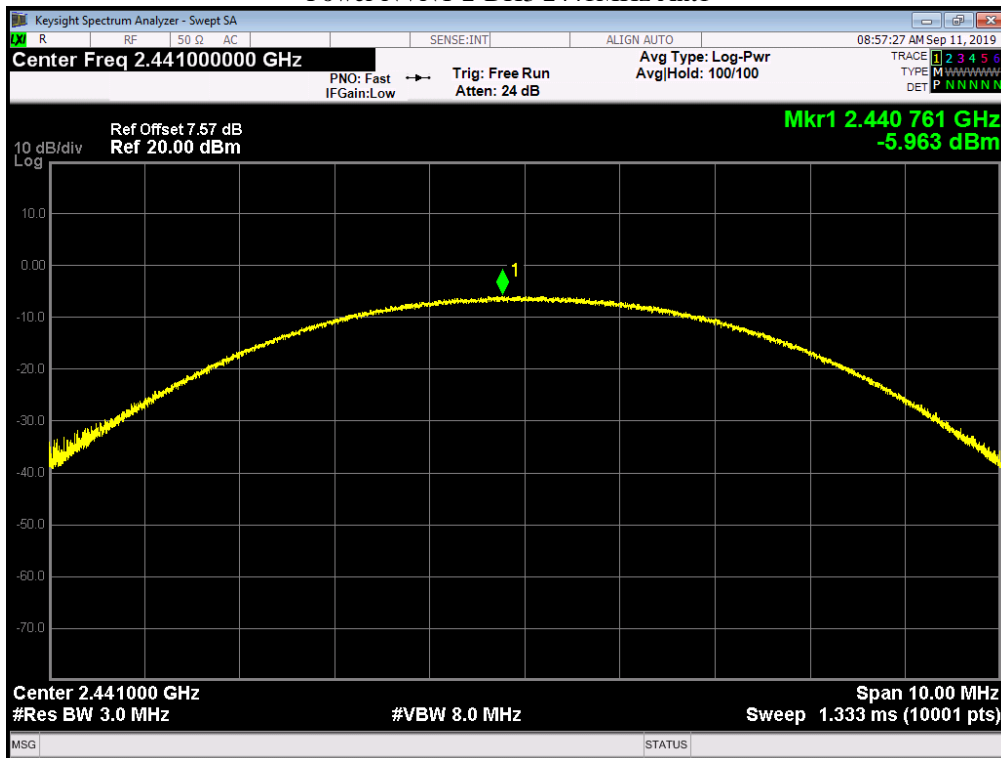


Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	2-DH3	2402	Ant 1	-5.49	0	-5.49	21	Pass
NVNT	2-DH3	2441	Ant 1	-5.963	0	-5.963	21	Pass
NVNT	2-DH3	2480	Ant 1	-5.152	0	-5.152	21	Pass

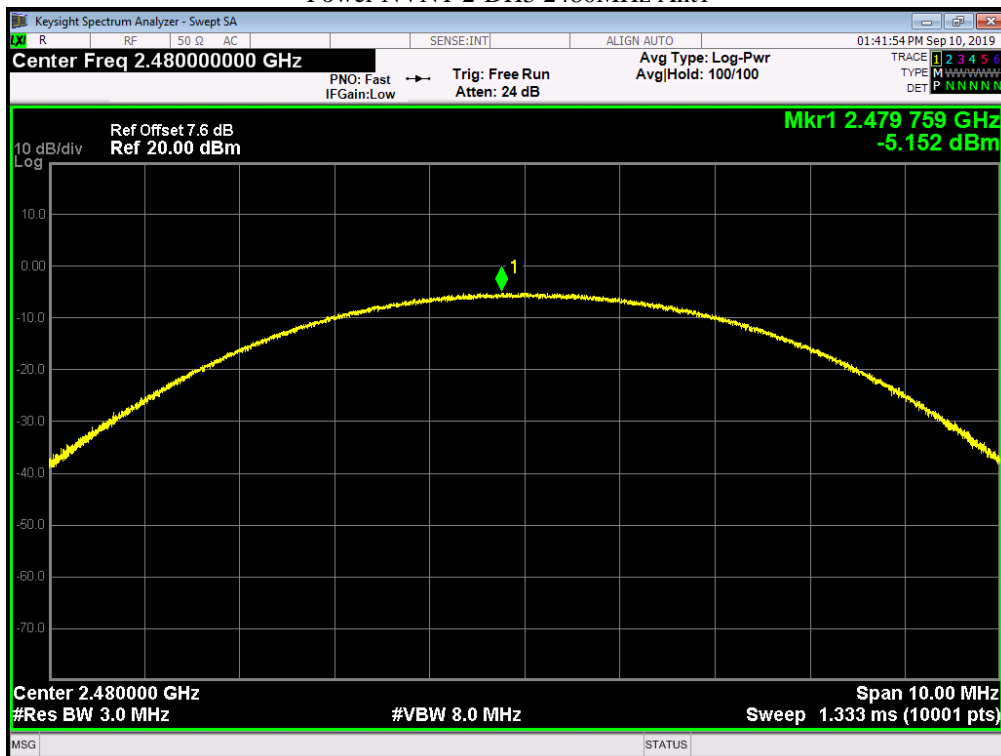
Power NVNT 2-DH3 2402MHz Ant1



Power NVNT 2-DH3 2441MHz Ant1

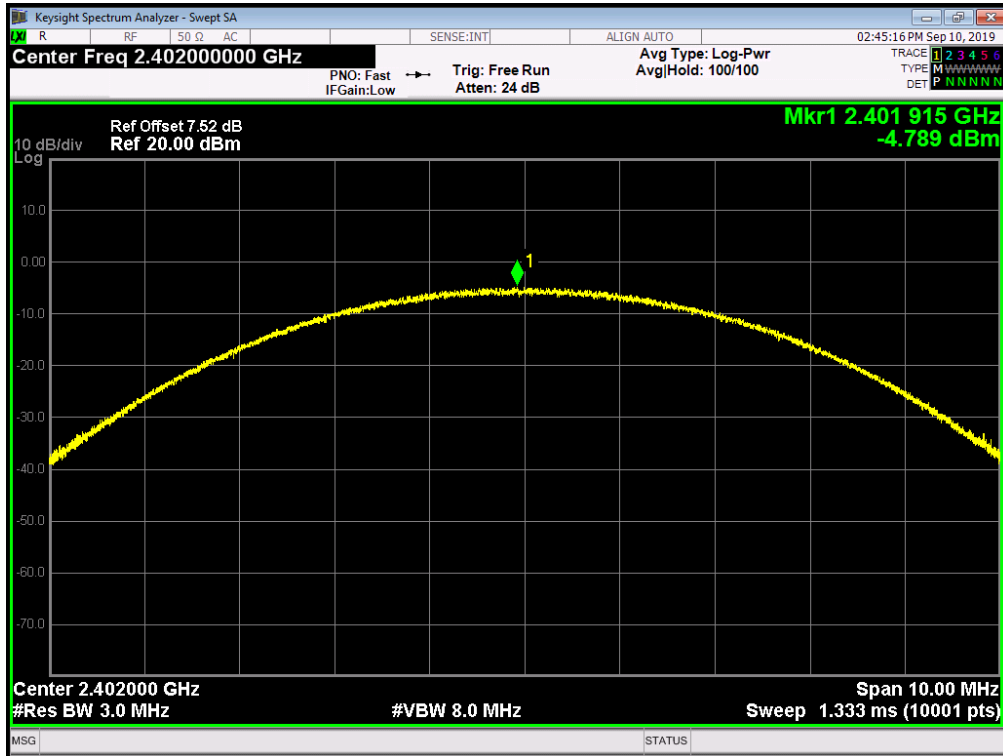


Power NVNT 2-DH3 2480MHz Ant1

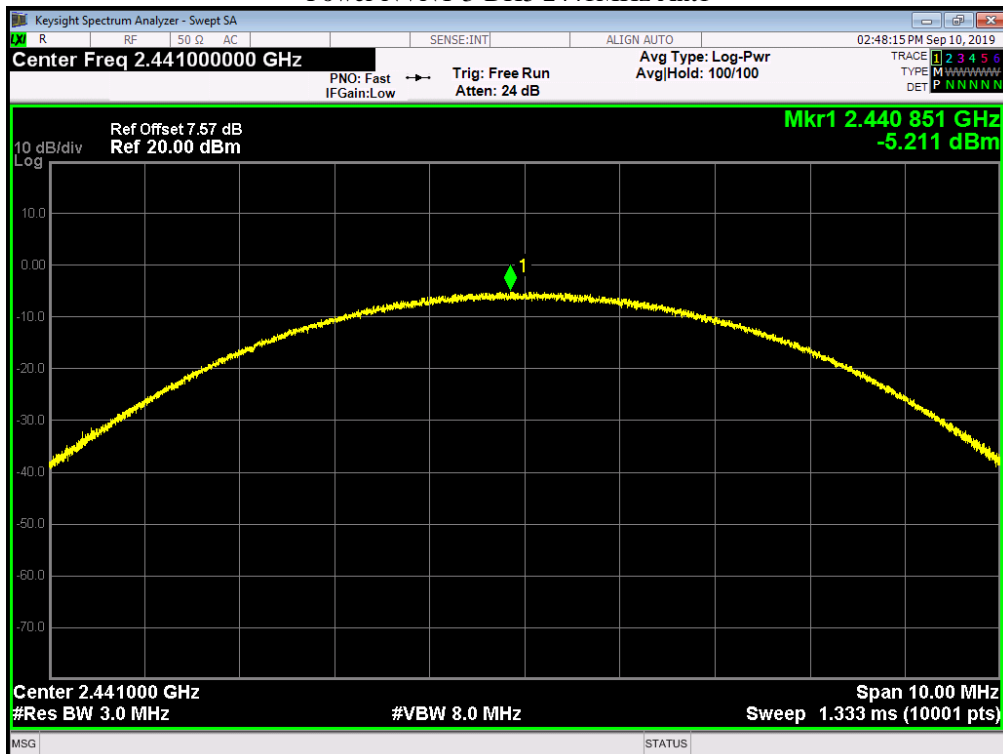


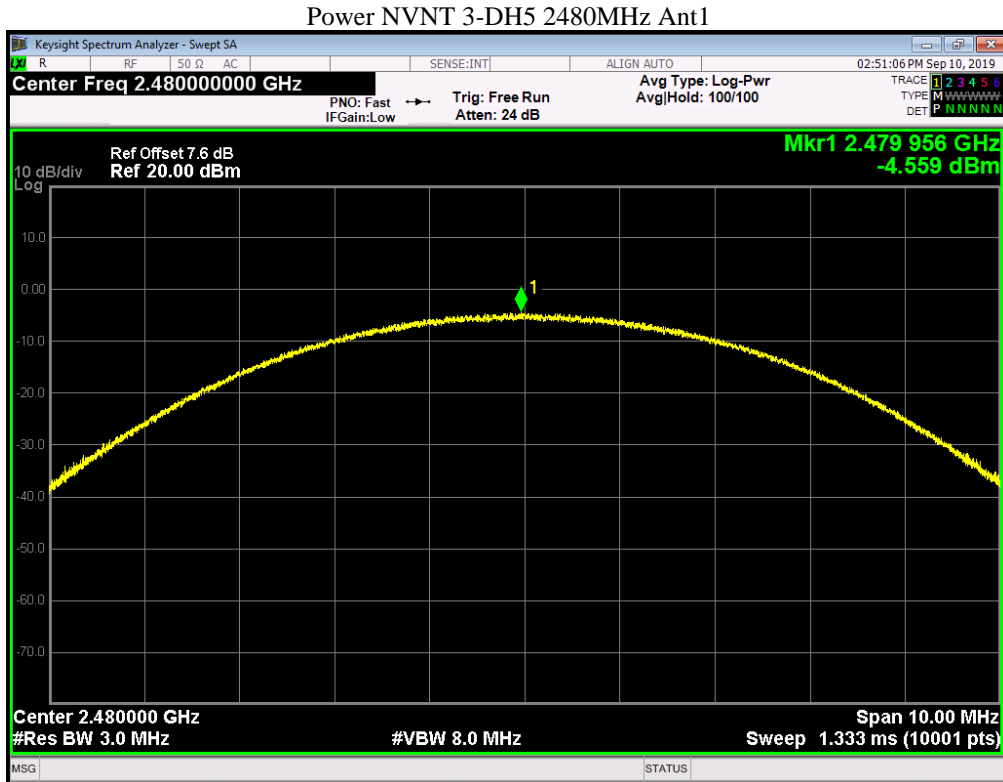
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	3-DH5	2402	Ant 1	-4.789	0	-4.789	21	Pass
NVNT	3-DH5	2441	Ant 1	-5.211	0	-5.211	21	Pass
NVNT	3-DH5	2480	Ant 1	-4.559	0	-4.559	21	Pass

Power NVNT 3-DH5 2402MHz Ant1



Power NVNT 3-DH5 2441MHz Ant1





Note: All the modes (1-DH1, 1-DH3, 1-DH5, 2-DH1, 2-DH3, 2-DH5, 3-DH1, 3-DH3, 3-DH5) had been test, but only the worst data (1-DH1, 2-DH3, 3-DH5) record in the report.

6. BANDWIDTH TEST

6.1. Applied procedures / Limit

For frequency hopping system operating in the 2400-2483.5MHz, If the 20dB bandwidth of hopping channel is greater than 25kHz, two-thirds 20dB bandwidth of hopping channel shall be a minimum limit for the hopping channel separation.

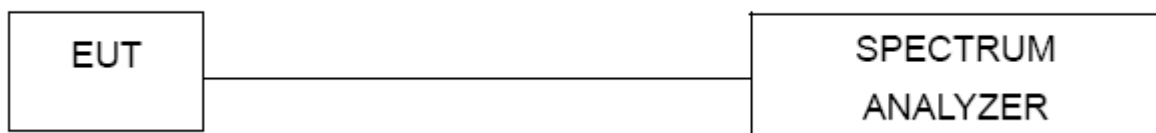
6.2. Test procedure

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- b. 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

6.3. Deviation from standard

No deviation.

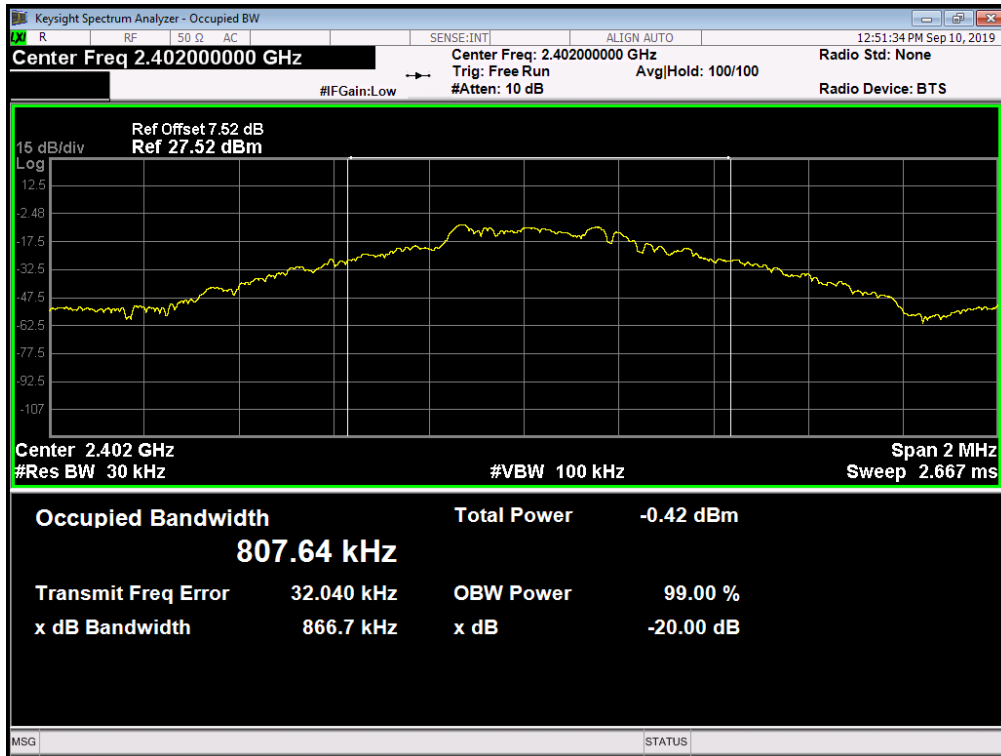
6.4. Test setup



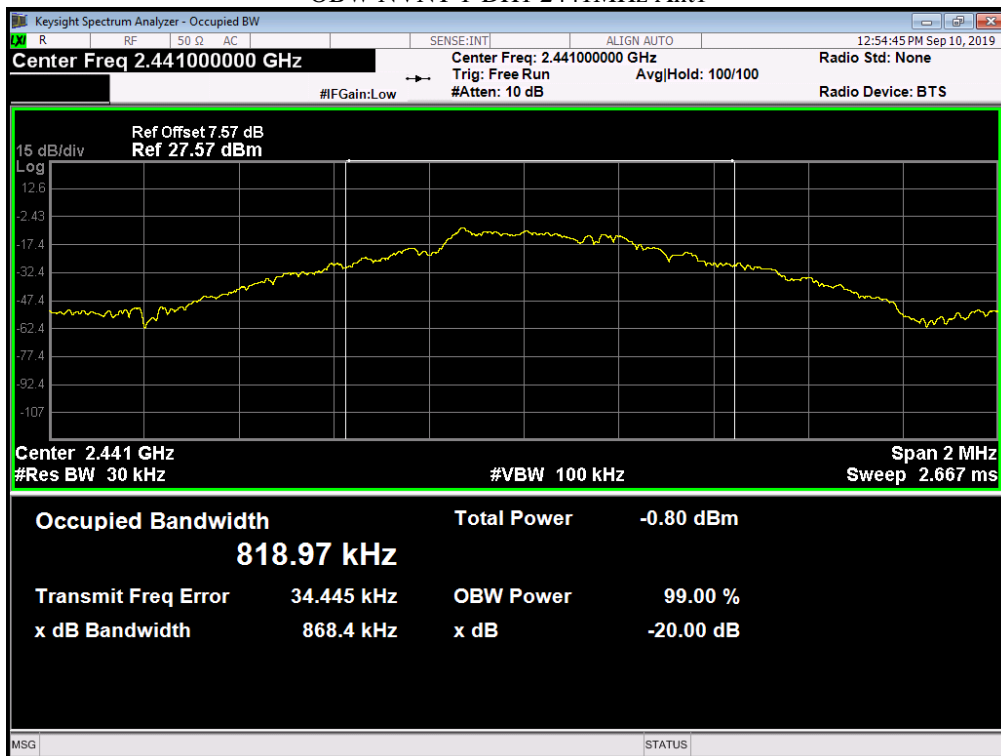
6.5. Test results

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH1	2402	Ant 1	0.8076	0.8667	0	Pass
NVNT	1-DH1	2441	Ant 1	0.819	0.8684	0	Pass
NVNT	1-DH1	2480	Ant 1	0.8108	0.8554	0	Pass

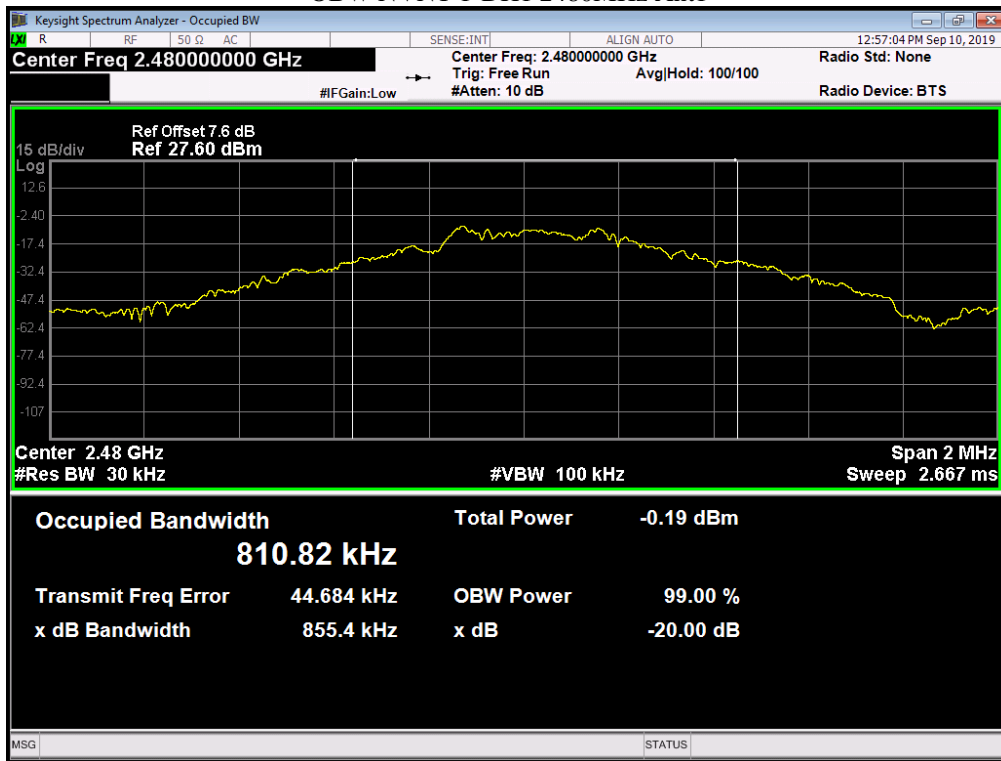
OBW NVNT 1-DH1 2402MHz Ant1



OBW NVNT 1-DH1 2441MHz Ant1

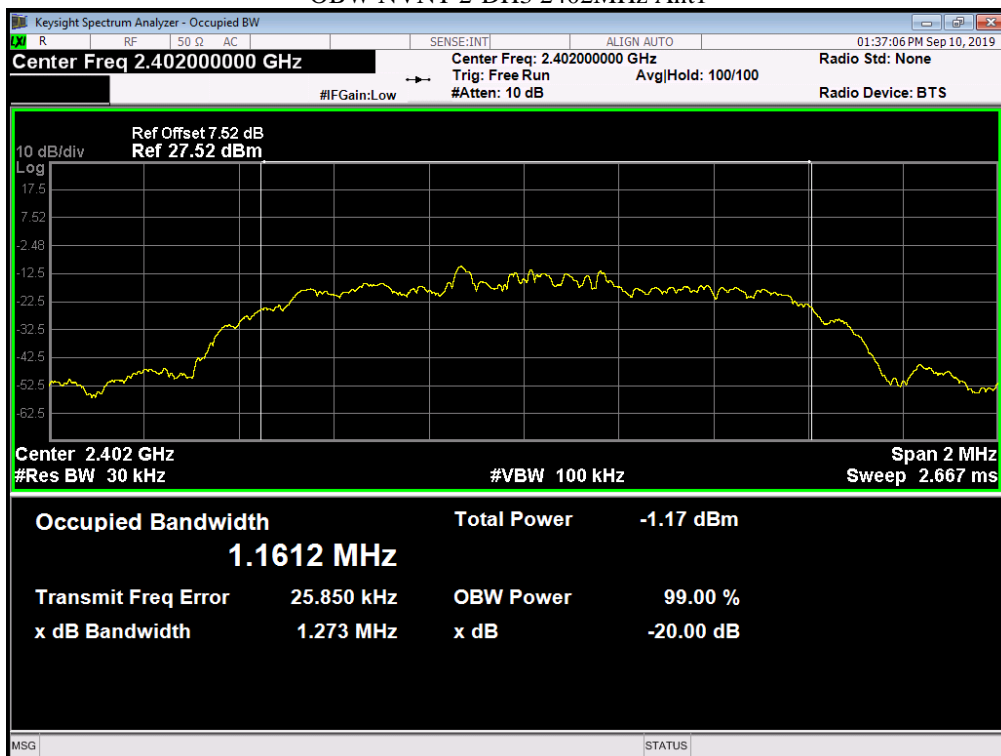


OBW NVNT 1-DH1 2480MHz Ant1

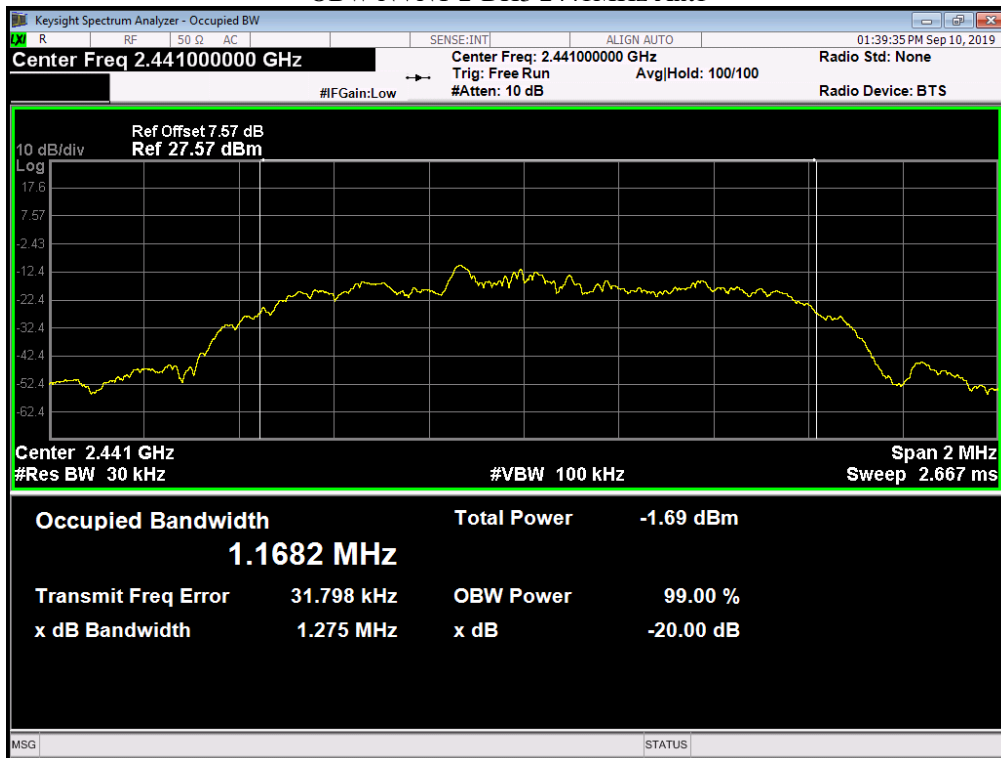


Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	2-DH3	2402	Ant 1	1.1612	1.273	0	Pass
NVNT	2-DH3	2441	Ant 1	1.1682	1.275	0	Pass
NVNT	2-DH3	2480	Ant 1	1.1626	1.2725	0	Pass

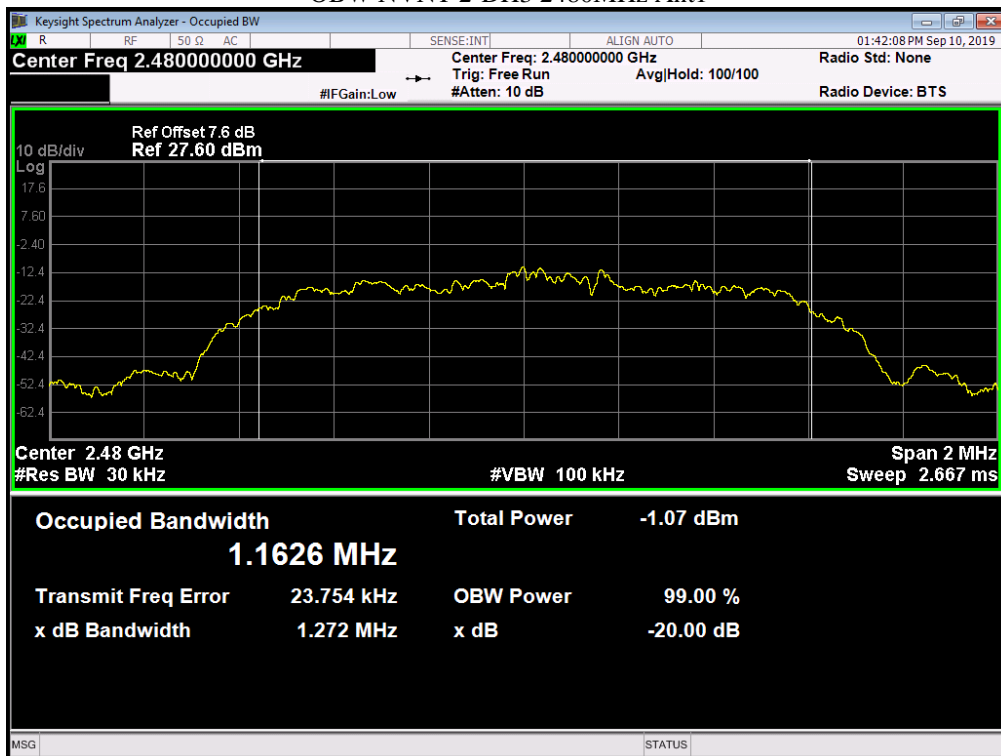
OBW NVNT 2-DH3 2402MHz Ant1



OBW NVNT 2-DH3 2441MHz Ant1

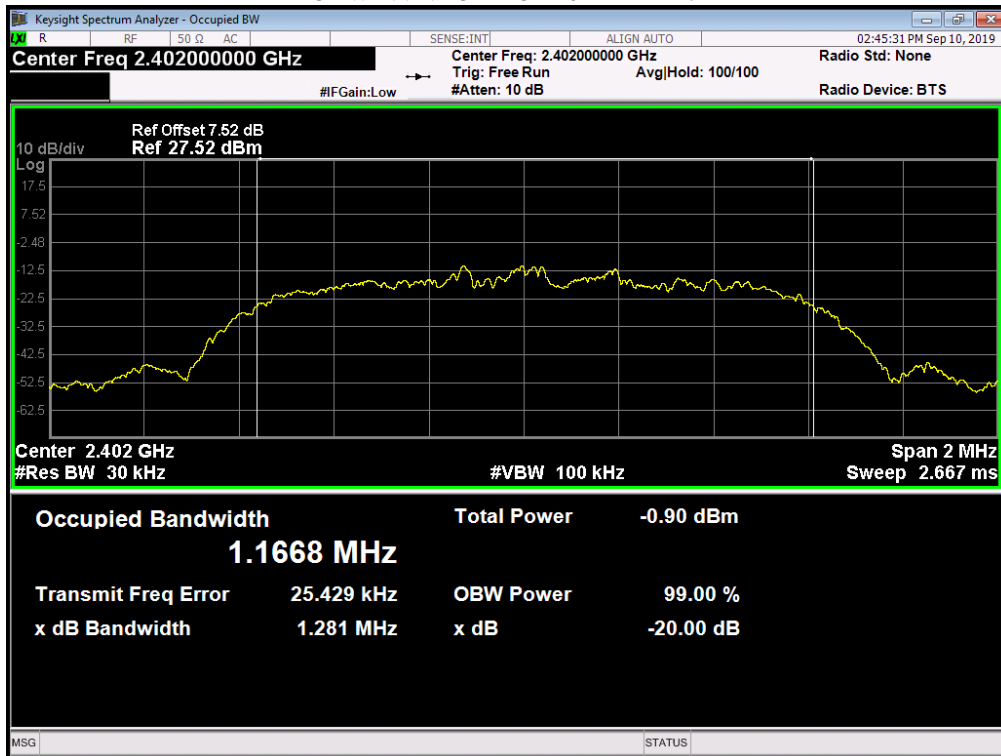


OBW NVNT 2-DH3 2480MHz Ant1

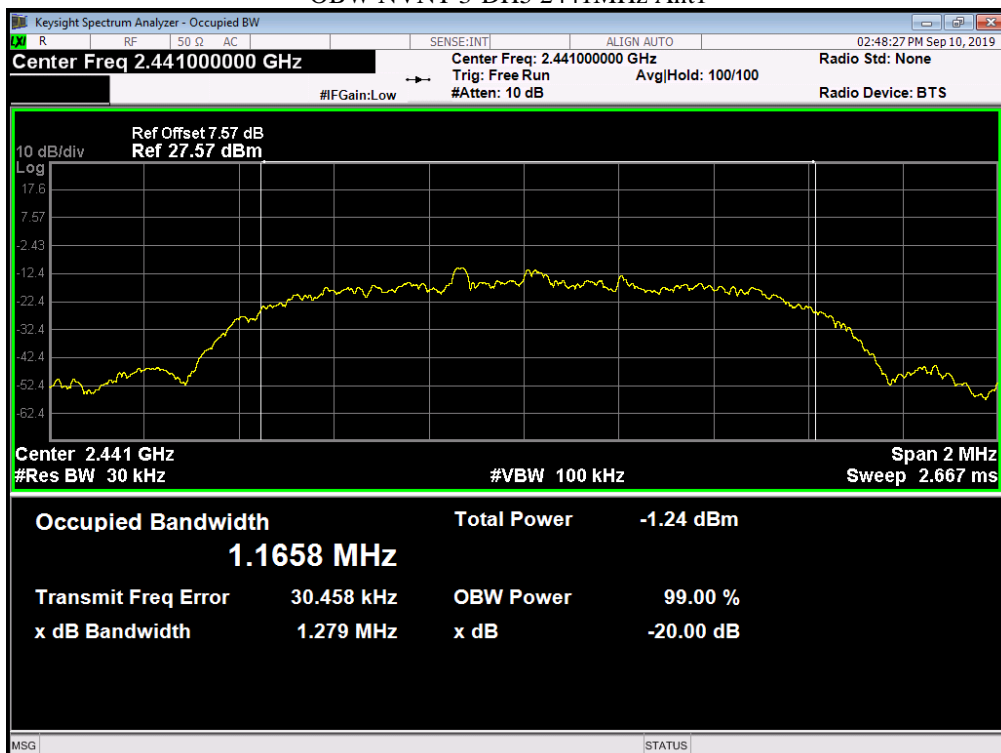


Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	3-DH5	2402	Ant 1	1.1668	1.2811	0	Pass
NVNT	3-DH5	2441	Ant 1	1.1658	1.2791	0	Pass
NVNT	3-DH5	2480	Ant 1	1.1599	1.2857	0	Pass

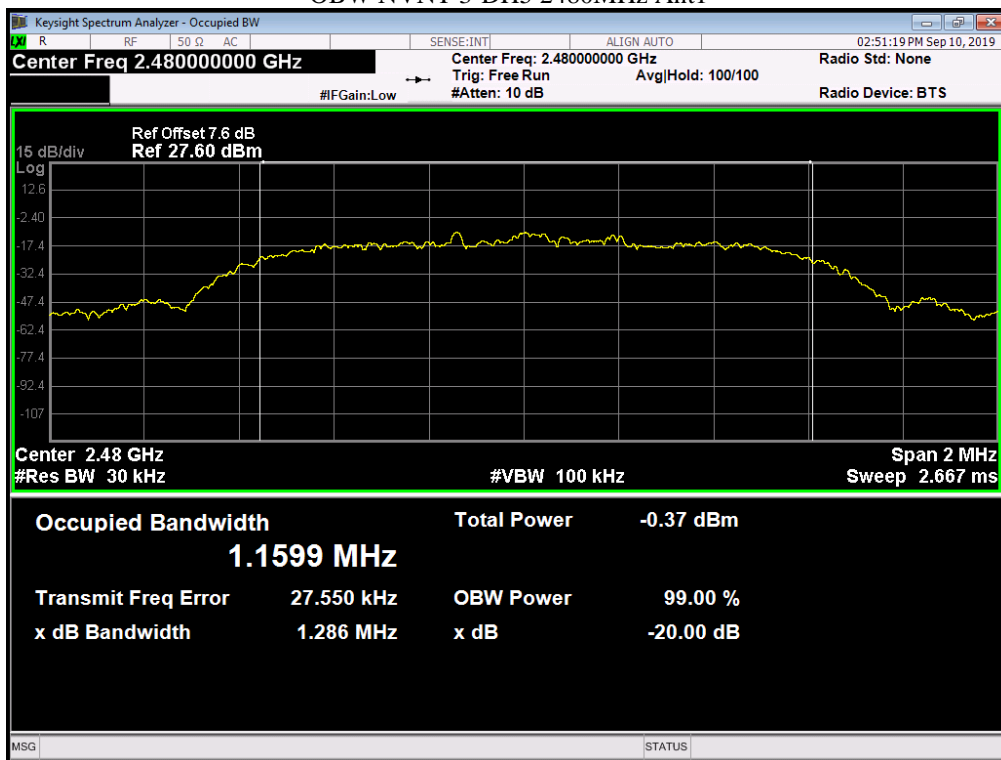
OBW NVNT 3-DH5 2402MHz Ant1



OBW NVNT 3-DH5 2441MHz Ant1



OBW NVNT 3-DH5 2480MHz Ant1



7. Carrier Frequencies Separated

7.1. Applied procedures / Limit

15.247(a) (1) 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 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW.

7.2. Test procedure

- (1) Connected the antenna port to the Spectrum Analyzer, set the Spectrum Analyzer as
Span = wide enough to capture the peaks of two adjacent channels, Resolution (or IF)
Bandwidth (RBW) $\geq 1\%$ of the span, Video (or Average) Bandwidth (VBW) \geq RBW
Sweep = auto, Detector function = peak, Trace = max hold
- (2) The EUT should be transmitting at its maximum data rate. Use the marker-delta function to determine the separation between the peaks of the adjacent channels.
- (3) The above procedure shall be repeated at the lowest, the middle, and the highest frequency of the stated frequency range with modulated mode. also shall be performed at different modes of operation.

7.3. Deviation from standard

No deviation.

7.4. Test setup



7.5. Test results

Condition	Mode	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH1	2401.873	2402.863	0.99	0.578	Pass
NVNT	1-DH1	2440.876	2442.109	1.233	0.579	Pass
NVNT	1-DH1	2479.038	2479.86	0.822	0.57	Pass

CFS NVNT 1-DH1 2402MHz



CFS NVNT 1-DH1 2441MHz



CFS NVNT 1-DH1 2480MHz

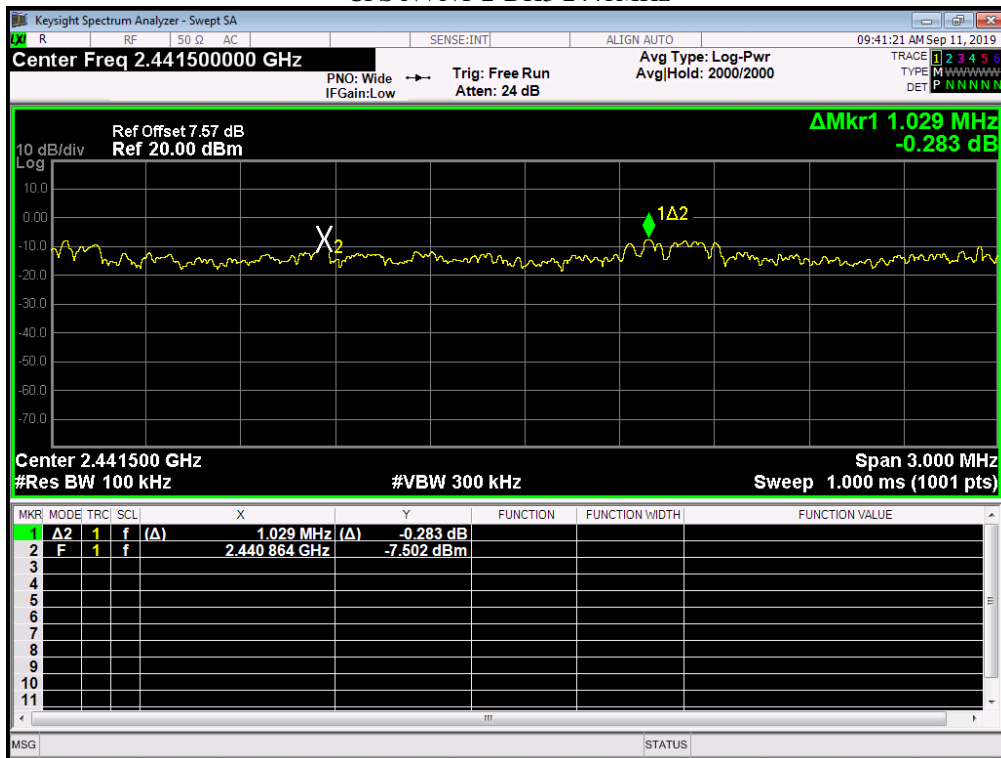


Condition	Mode	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	2-DH3	2401.867	2402.875	1.008	0.849	Pass
NVNT	2-DH3	2440.864	2441.893	1.029	0.85	Pass
NVNT	2-DH3	2479.047	2480.007	0.96	0.848	Pass

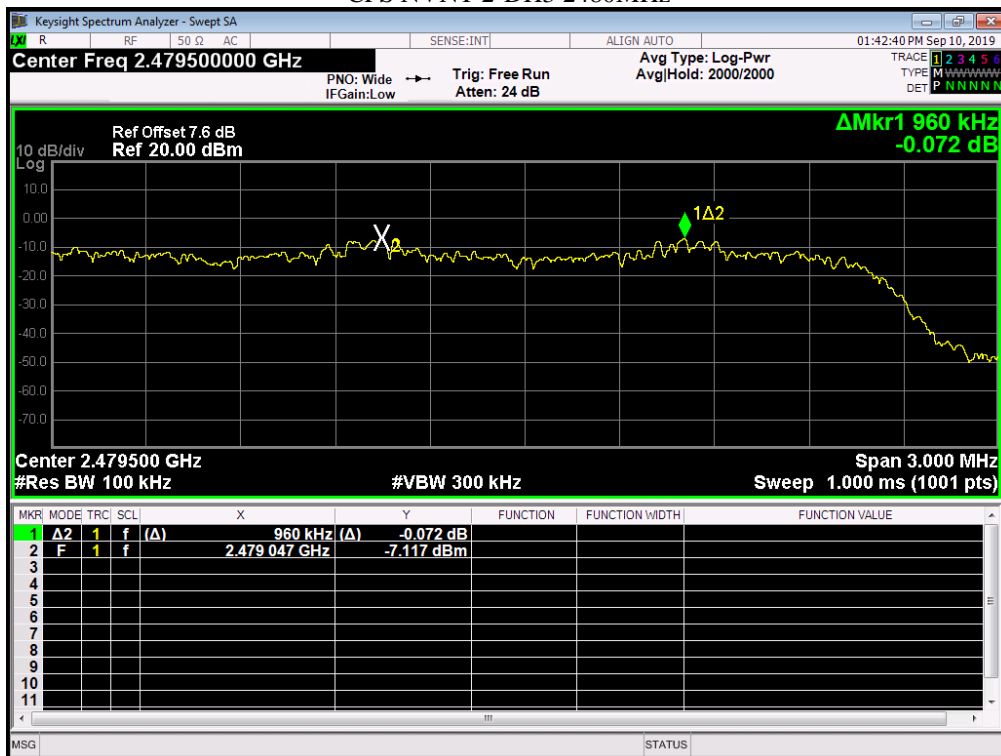
CFS NVNT 2-DH3 2402MHz



CFS NVNT 2-DH3 2441MHz

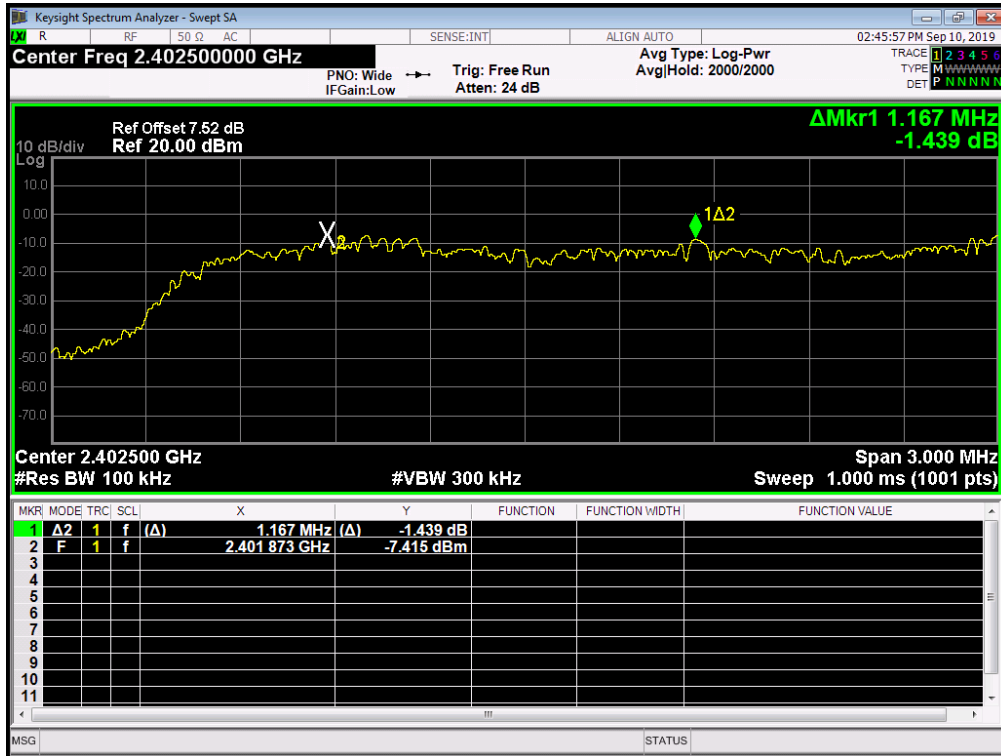


CFS NVNT 2-DH3 2480MHz

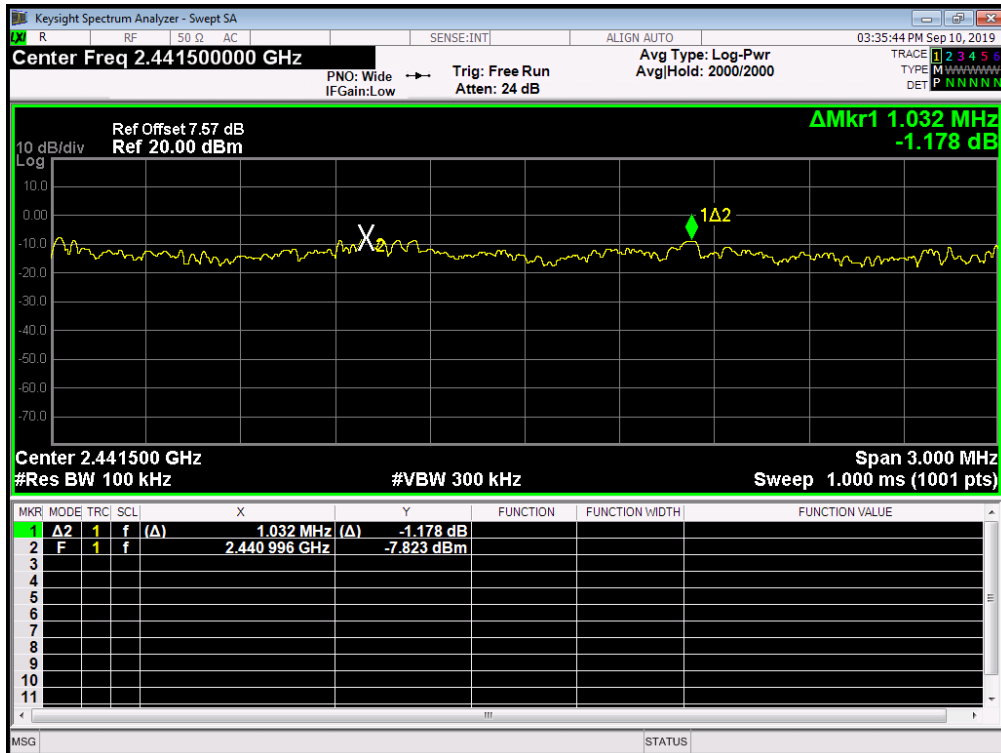


Condition	Mode	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	3-DH5	2401.873	2403.04	1.167	0.854	Pass
NVNT	3-DH5	2440.996	2442.028	1.032	0.857	Pass
NVNT	3-DH5	2479.122	2480.334	1.212	0.857	Pass

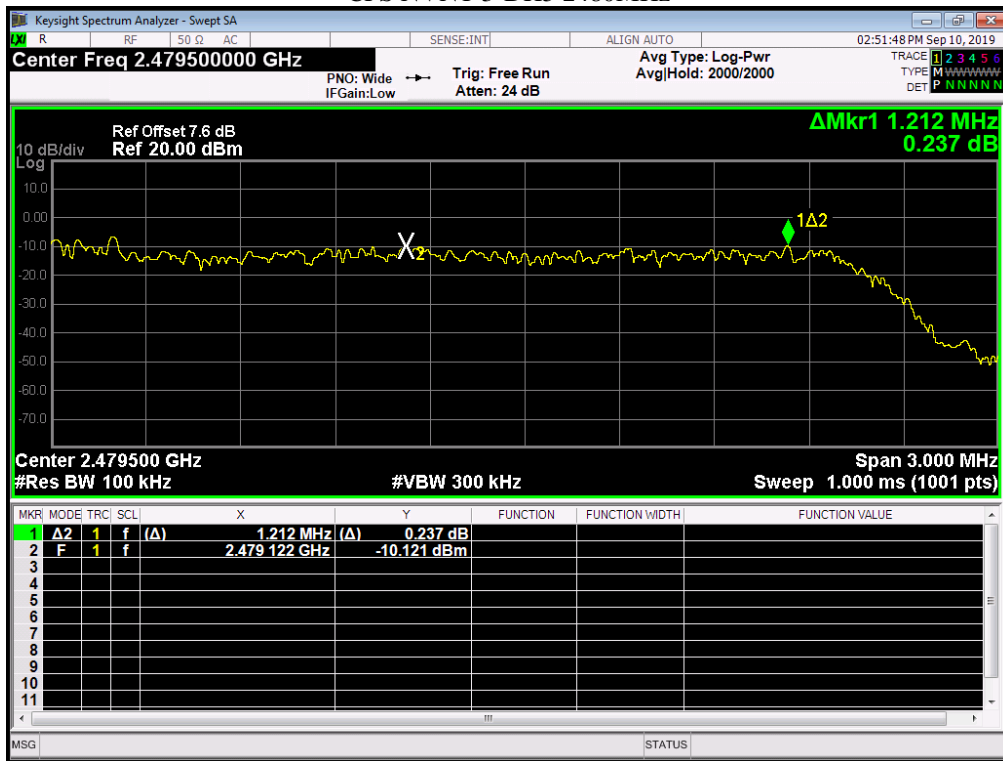
CFS NVNT 3-DH5 2402MHz



CFS NVNT 3-DH5 2441MHz



CFS NVNT 3-DH5 2480MHz



8. Hopping Channel Number

8.1. Applied procedures / Limit

15.247(a) (1) (iii) Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.

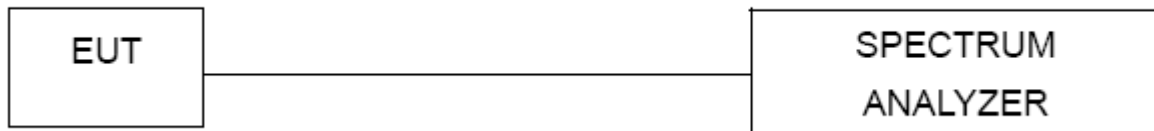
8.2. Test procedure

- (1) Connected the antenna port to the Spectrum Analyzer , set the Spectrum Analyzer as
Span = the frequency band of operation, $RBW \geq 1\%$ of the span, $VBW \geq RBW$ Sweep = auto
Detector function = peak, Trace = max hold
- (2) The EUT should be have its hopping function enabled. Maxhold and record hopping channels
It may prove necessary to break the span up to sections, in order to clearly show all of the hopping frequencies.

8.3. Deviation from standard

No deviation.

8.4. Test setup



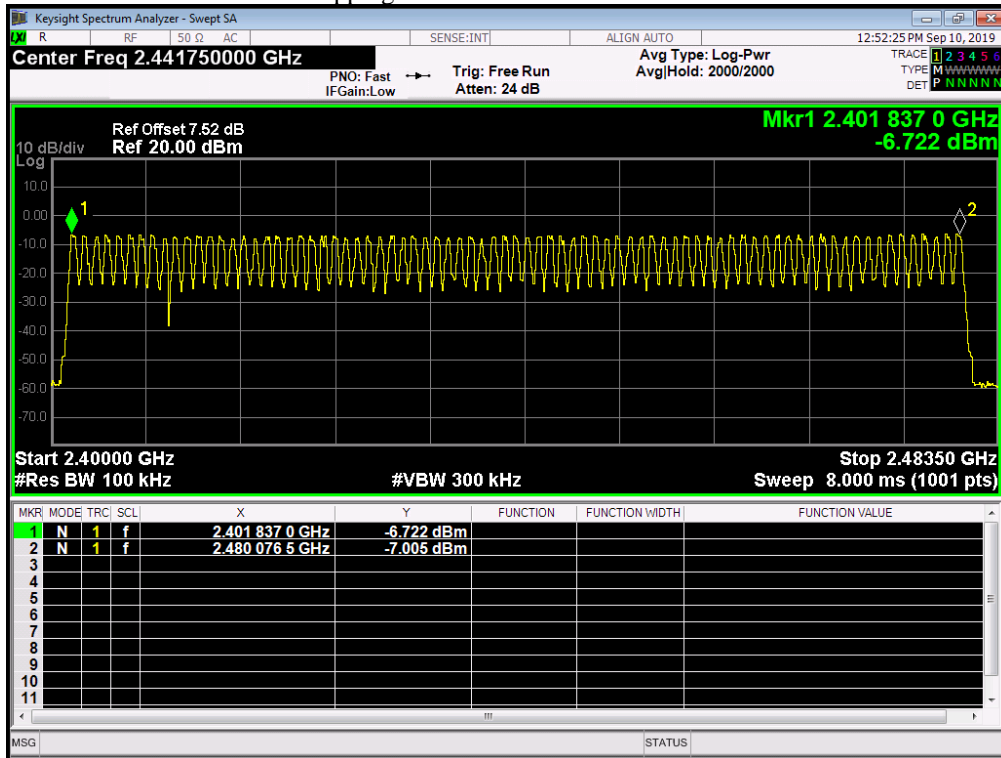
8.5. Test result

Number of Hopping Channel

Description of Channel:					
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
00	2402	27	2429	54	2456
01	2403	28	2430	55	2457
02	2404	29	2431	56	2458
03	2405	30	2432	57	2459
04	2406	31	2433	58	2460
05	2407	32	2434	59	2461
06	2408	33	2435	60	2462
07	2409	34	2436	61	2463
08	2410	35	2437	62	2464
09	2411	36	2438	63	2465
10	2412	37	2439	64	2466
11	2413	38	2440	65	2467
12	2414	39	2441	66	2468
13	2415	40	2442	67	2469
14	2416	41	2443	68	2470
15	2417	42	2444	69	2471
16	2418	43	2445	70	2472
17	2419	44	2446	71	2473
18	2420	45	2447	72	2474
19	2421	46	2448	73	2475
20	2422	47	2449	74	2476
21	2423	48	2450	75	2477
22	2424	49	2451	76	2478
23	2425	50	2452	77	2479
24	2426	51	2453	78	2480
25	2427	52	2454		
26	2428	53	2455		

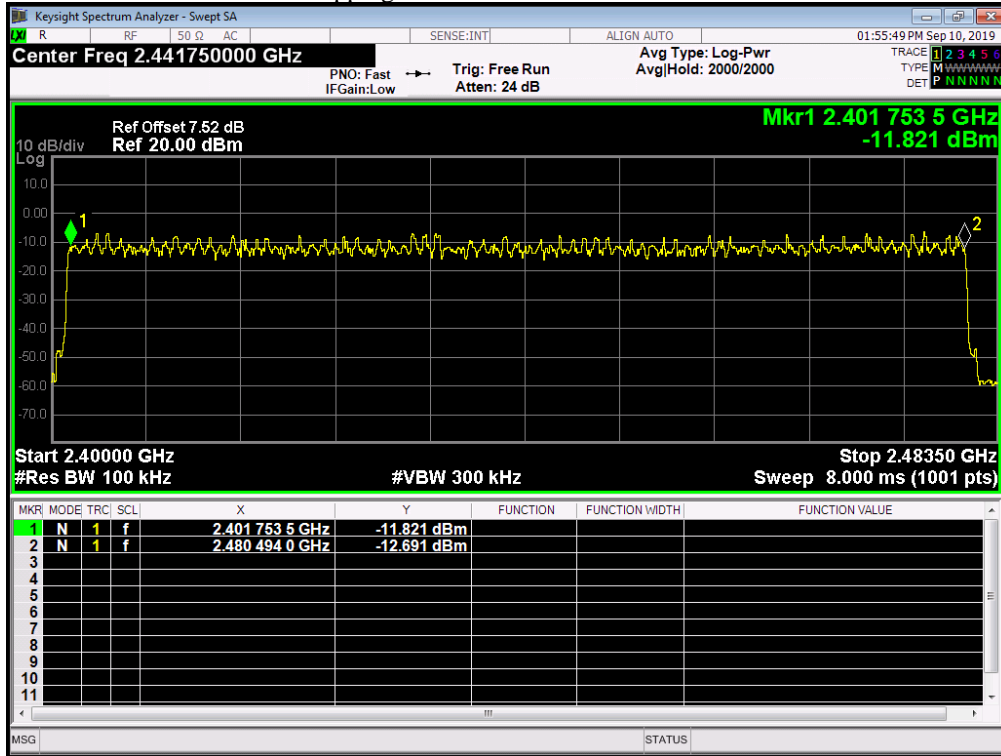
Condition	Mode	Hopping Number	Limit	Verdict
NVNT	1-DH1	79	15	Pass

Hopping No. NVNT 1-DH1 2402MHz



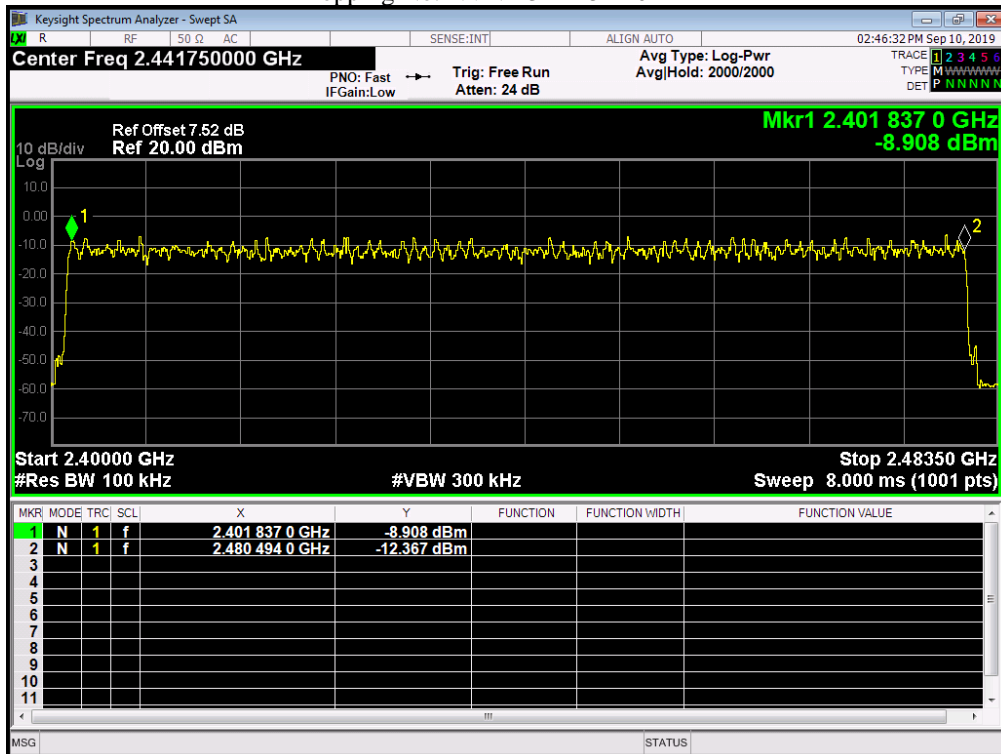
Condition	Mode	Hopping Number	Limit	Verdict
NVNT	2-DH3	79	15	Pass

Hopping No. NVNT 2-DH5 2402MHz



Condition	Mode	Hopping Number	Limit	Verdict
NVNT	3-DH5	79	15	Pass

Hopping No. NVNT 3-DH5 2402MHz



9. Dwell time

9.1. Applied procedures / Limit

15.247(a) (1) (iii) Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.

9.2. Test procedure

- (1) Place the EUT on the table in the chamber or connect the antenna port of the EUT to spectrum analyzer and set it in transmitting mode.
- (2) Set RBW of spectrum analyzer to 1MHz, VBW \geq RBW
- (3) Use a video trigger with the trigger level set to enable triggering only on full pulses.
- (4) Sweep Time is more than once pulse time.
- (5) Set the center frequency on any frequency would be measure and set the frequency span to zero span.
- (6) Measure the maximum time duration of one single pulse.
- (7) Set the EUT for DH5, DH3 and DH1 packet transmitting.
- (8) Measure the maximum time duration of one single pulse.
- (9) A Period Time = $79 \times 0.4 = 31.6$ S
DH1 Time Slot: Reading * $(1600/2) \times 31.6/79$
DH3 Time Slot: Reading * $(1600/4) \times 31.6/79$
DH5 Time Slot: Reading * $(1600/6) \times 31.6/79$

9.3. Deviation from standard

No deviation.

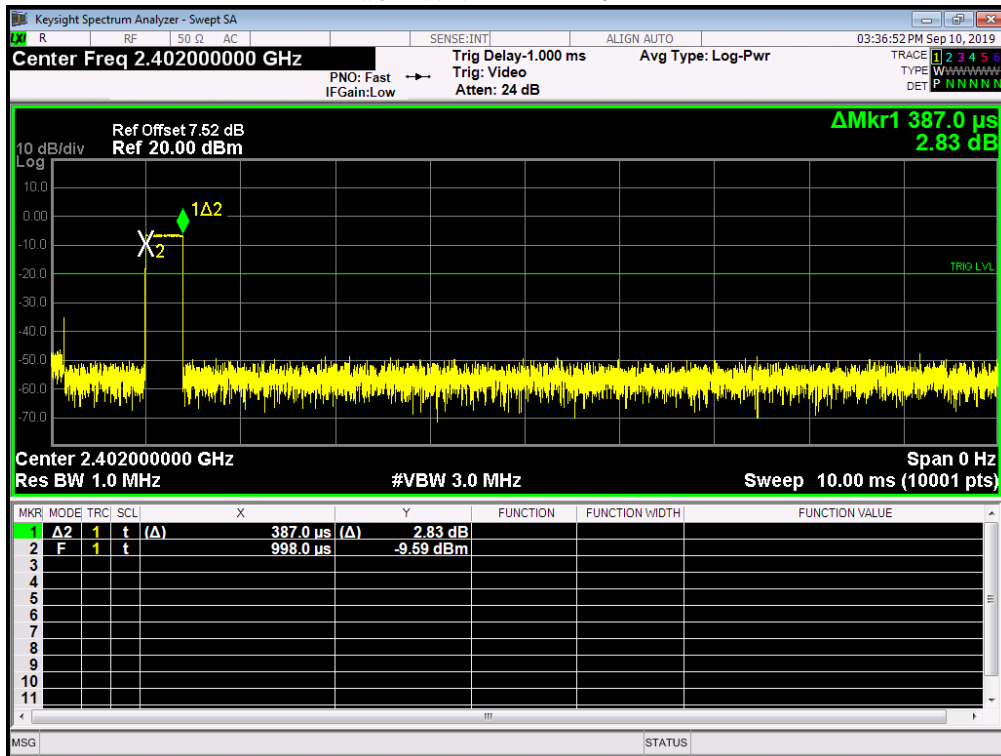
9.4. Test setup



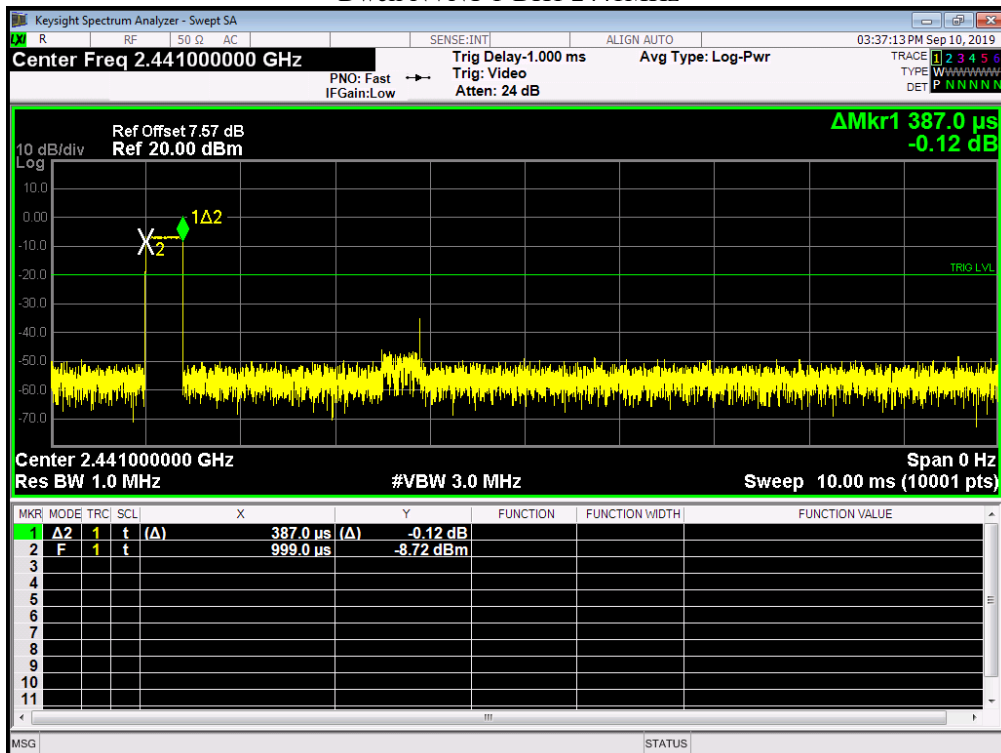
9.5. Test result

Condition	Mode	Frequency (MHz)	Pulse Time (ms)	Total Dwell Time (ms)	Period Time (ms)	Limit (ms)	Verdict
NVNT	1-DH1	2402	0.387	122.292	31600	400	Pass
NVNT	1-DH1	2441	0.387	122.292	31600	400	Pass
NVNT	1-DH1	2480	0.387	122.292	31600	400	Pass

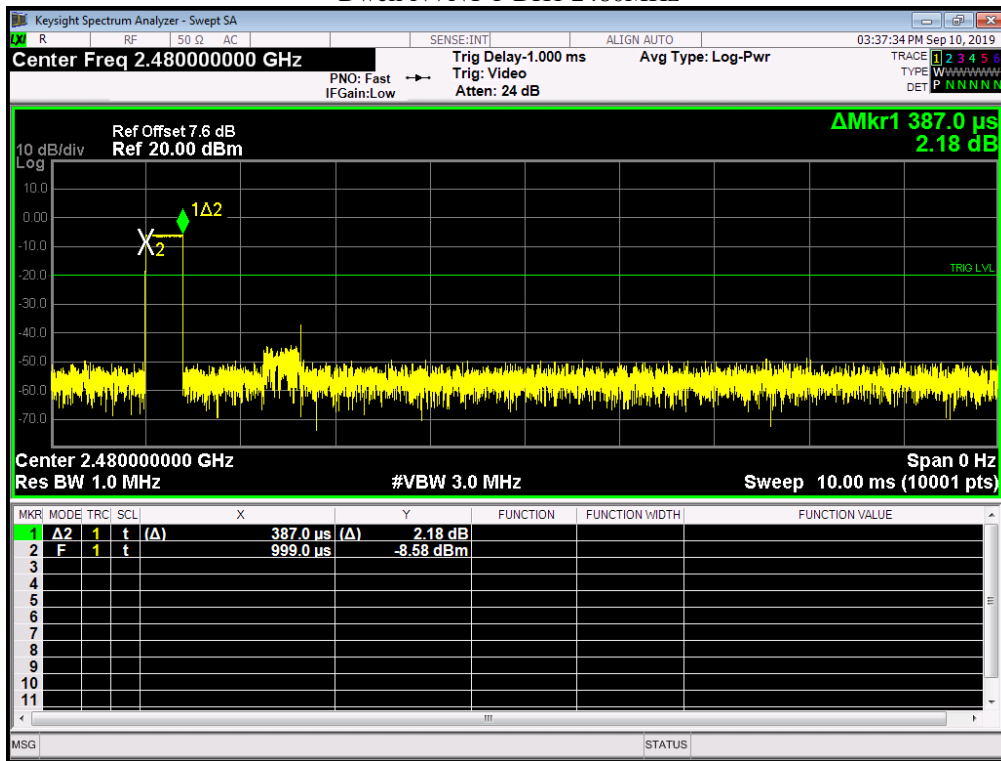
Dwell NVNT 1-DH1 2402MHz



Dwell NVNT 1-DH1 2441MHz

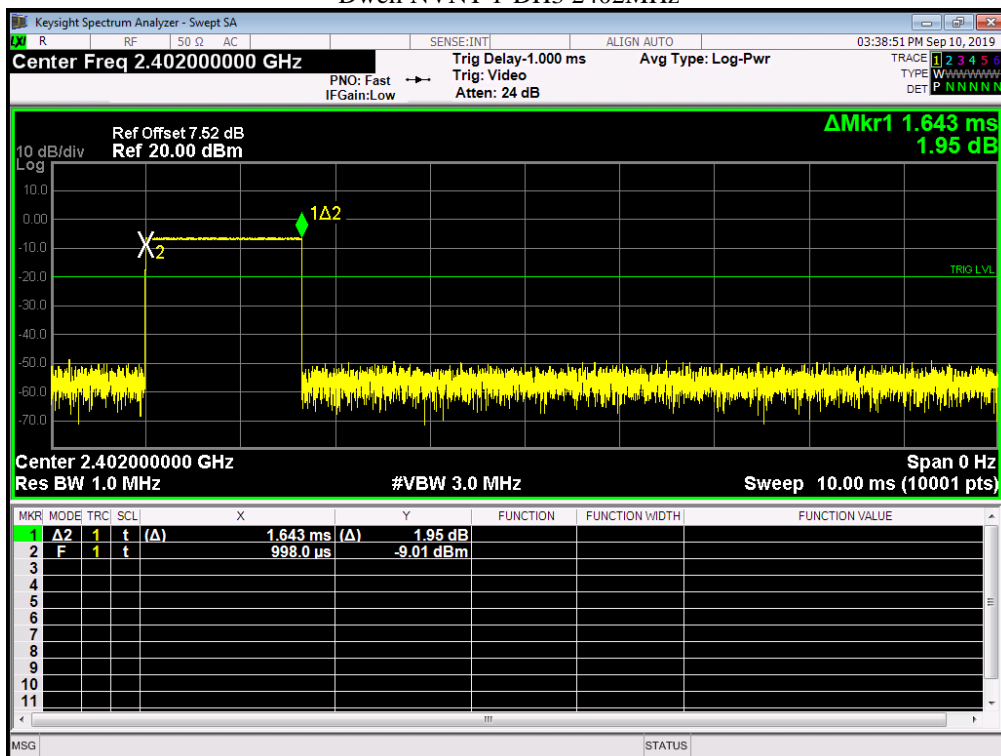


Dwell NVNT 1-DH1 2480MHz

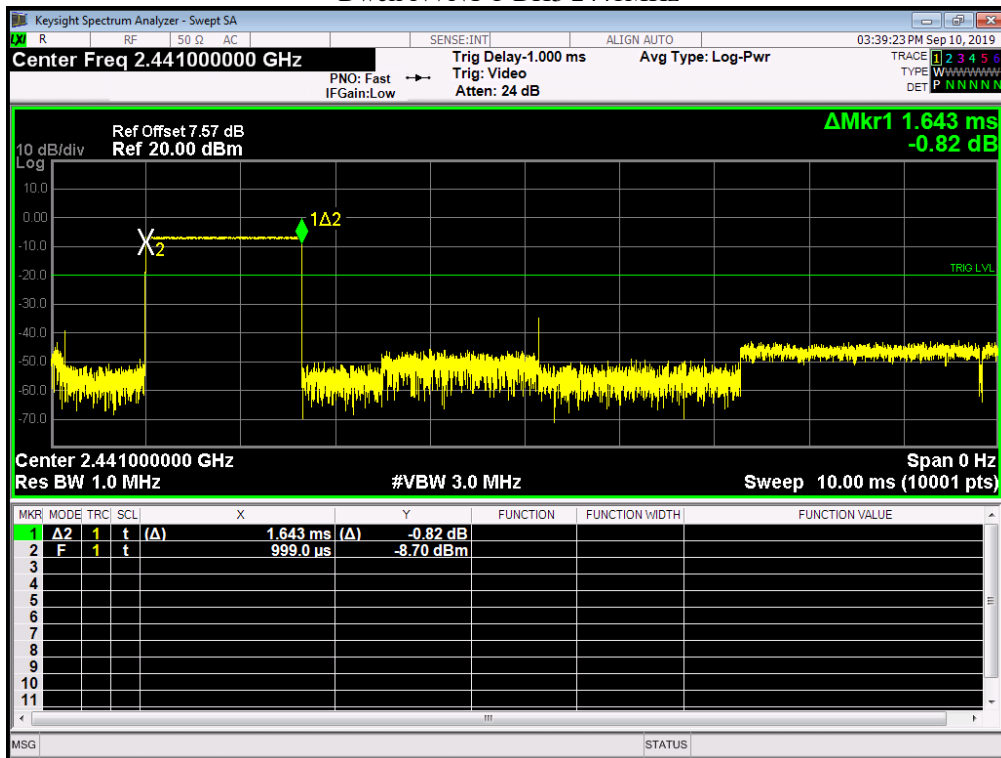


Condition	Mode	Frequency (MHz)	Pulse Time (ms)	Total Dwell Time (ms)	Period Time (ms)	Limit (ms)	Verdict
NVNT	1-DH3	2402	1.643	259.594	31600	400	Pass
NVNT	1-DH3	2441	1.643	259.594	31600	400	Pass
NVNT	1-DH3	2480	1.643	259.594	31600	400	Pass

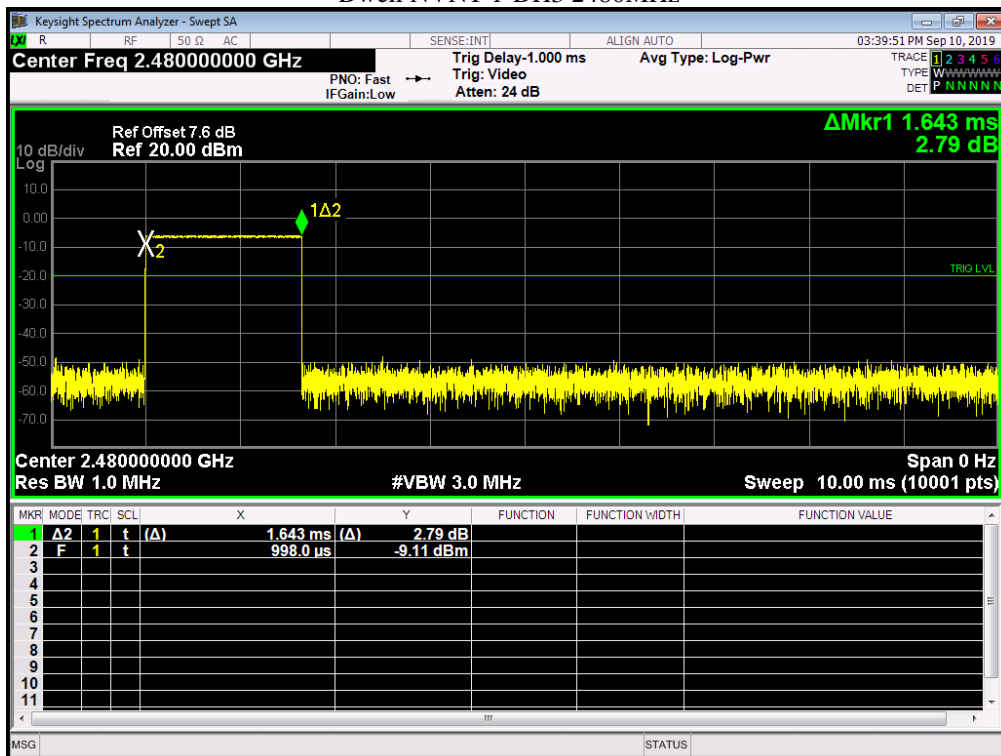
Dwell NVNT 1-DH3 2402MHz



Dwell NVNT 1-DH3 2441MHz

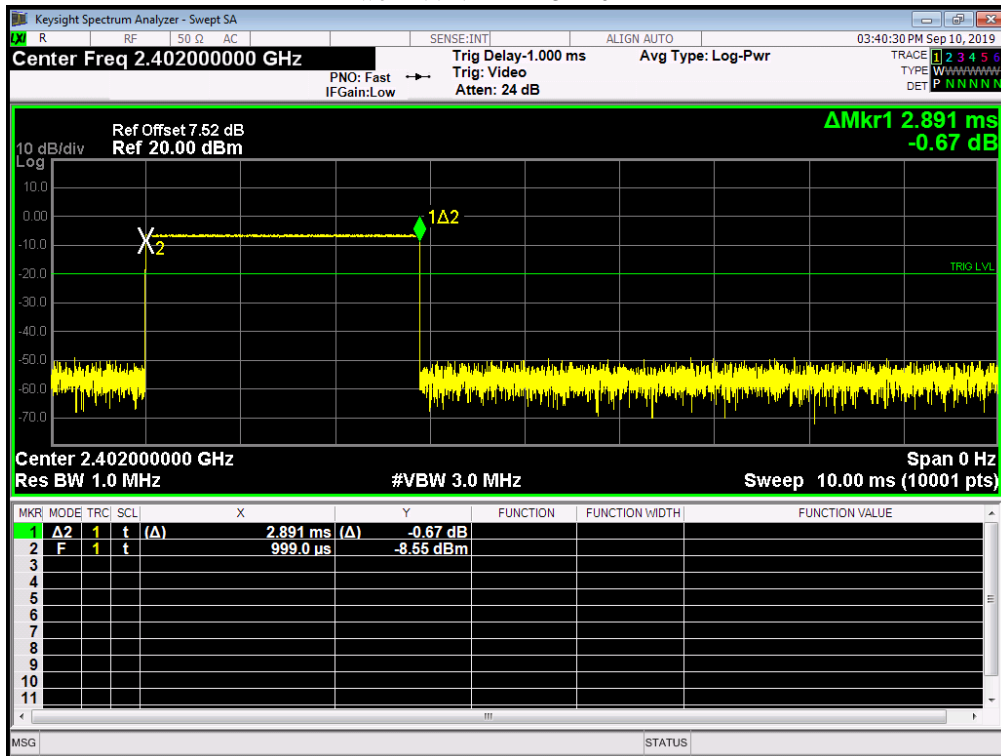


Dwell NVNT 1-DH3 2480MHz

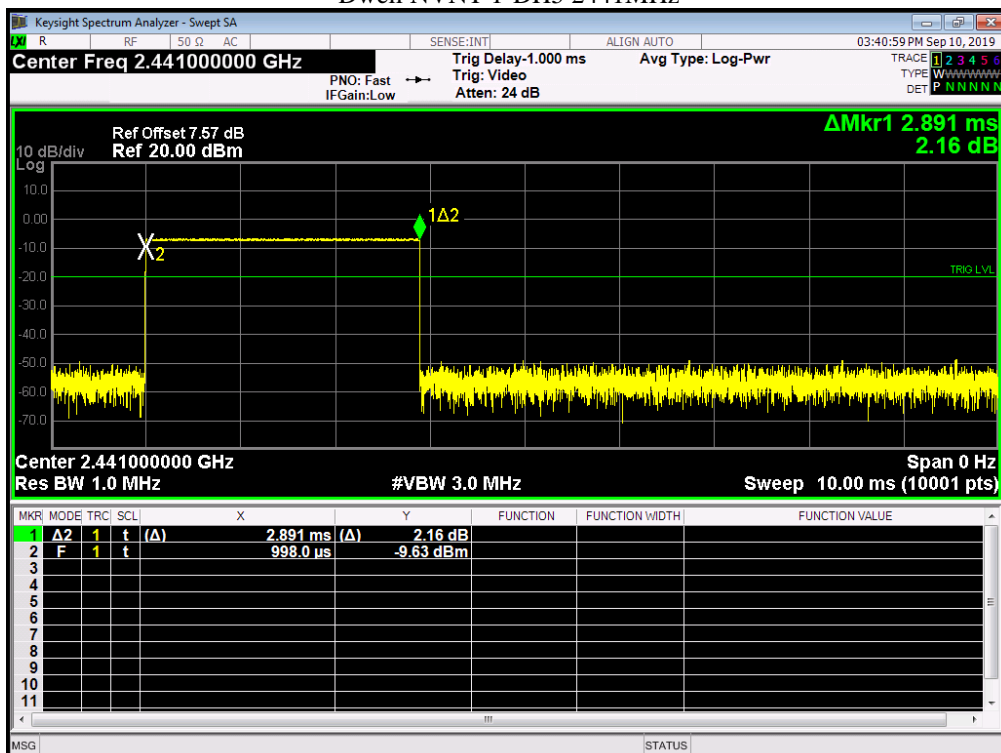


Condition	Mode	Frequency (MHz)	Pulse Time (ms)	Total Dwell Time (ms)	Period Time (ms)	Limit (ms)	Verdict
NVNT	1-DH5	2402	2.891	274.067	31600	400	Pass
NVNT	1-DH5	2441	2.891	274.067	31600	400	Pass
NVNT	1-DH5	2480	2.891	274.067	31600	400	Pass

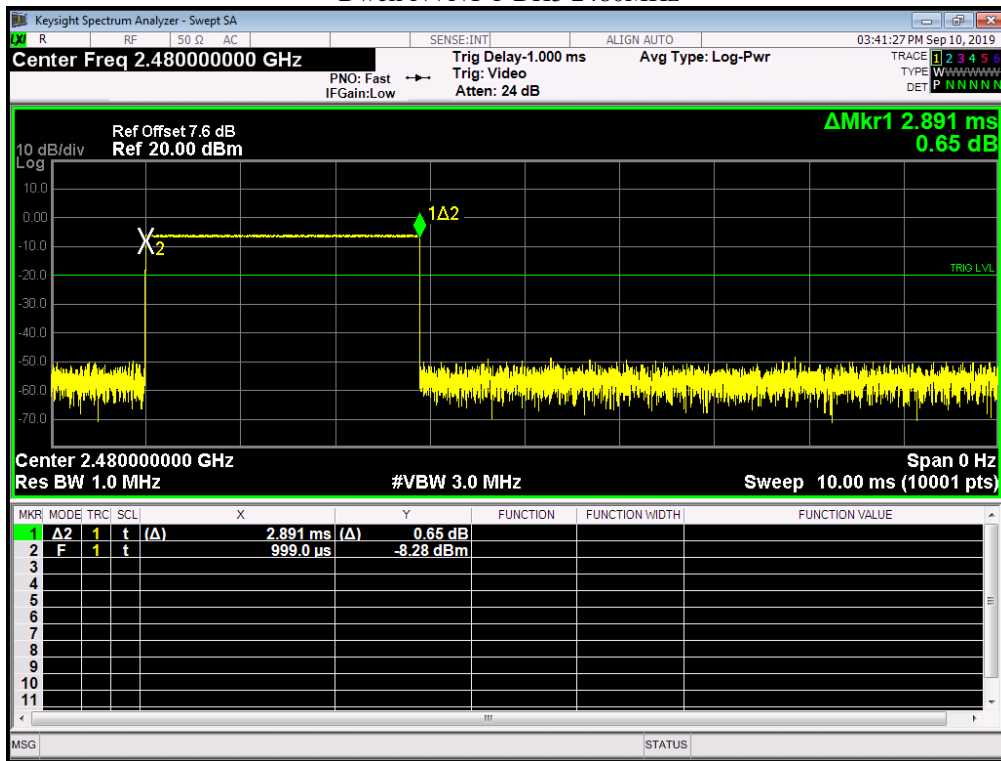
Dwell NVNT 1-DH5 2402MHz



Dwell NVNT 1-DH5 2441MHz

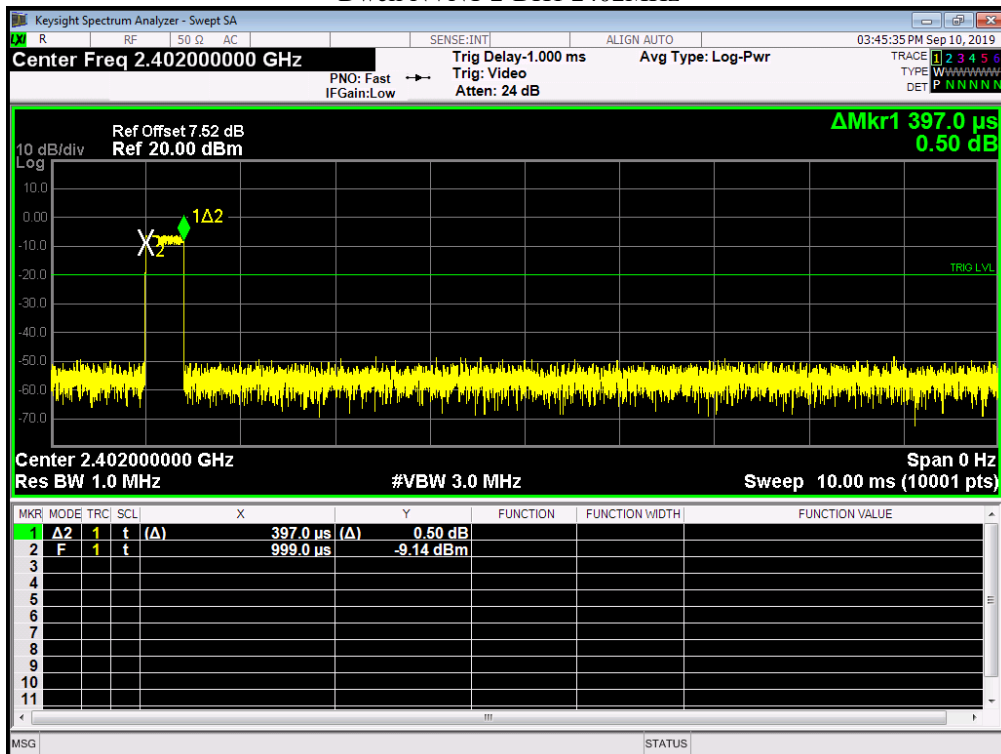


Dwell NVNT 1-DH5 2480MHz

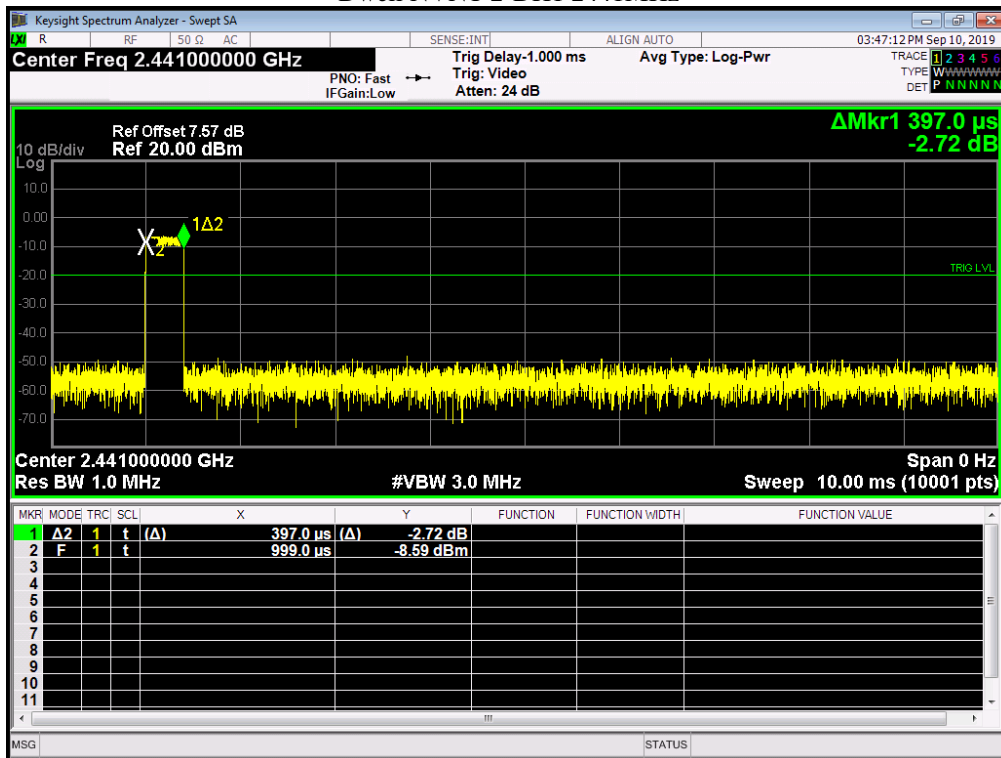


Condition	Mode	Frequency (MHz)	Pulse Time (ms)	Total Dwell Time (ms)	Period Time (ms)	Limit (ms)	Verdict
NVNT	2-DH1	2402	0.397	125.452	31600	400	Pass
NVNT	2-DH1	2441	0.397	125.452	31600	400	Pass
NVNT	2-DH1	2480	0.397	125.452	31600	400	Pass

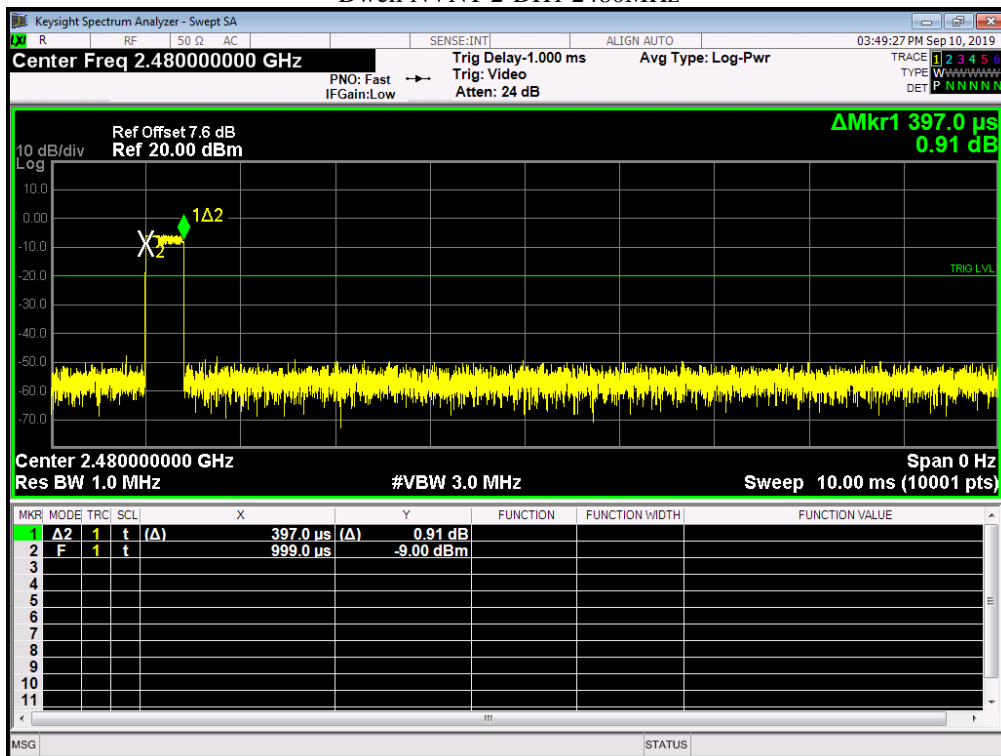
Dwell NVNT 2-DH1 2402MHz



Dwell NVNT 2-DH1 2441MHz

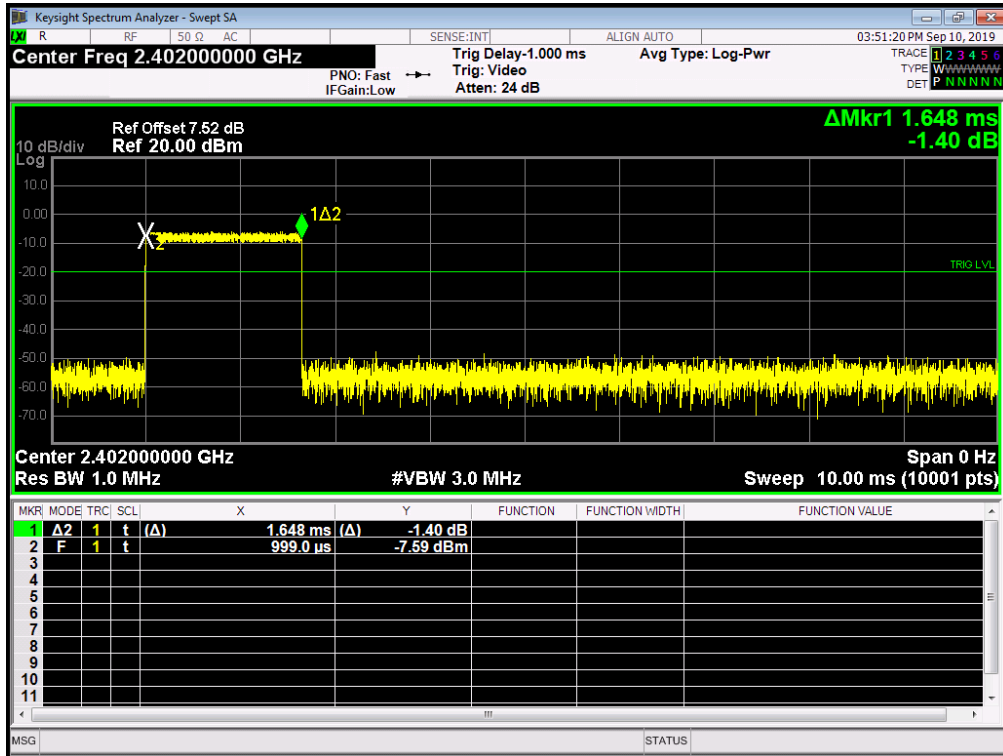


Dwell NVNT 2-DH1 2480MHz

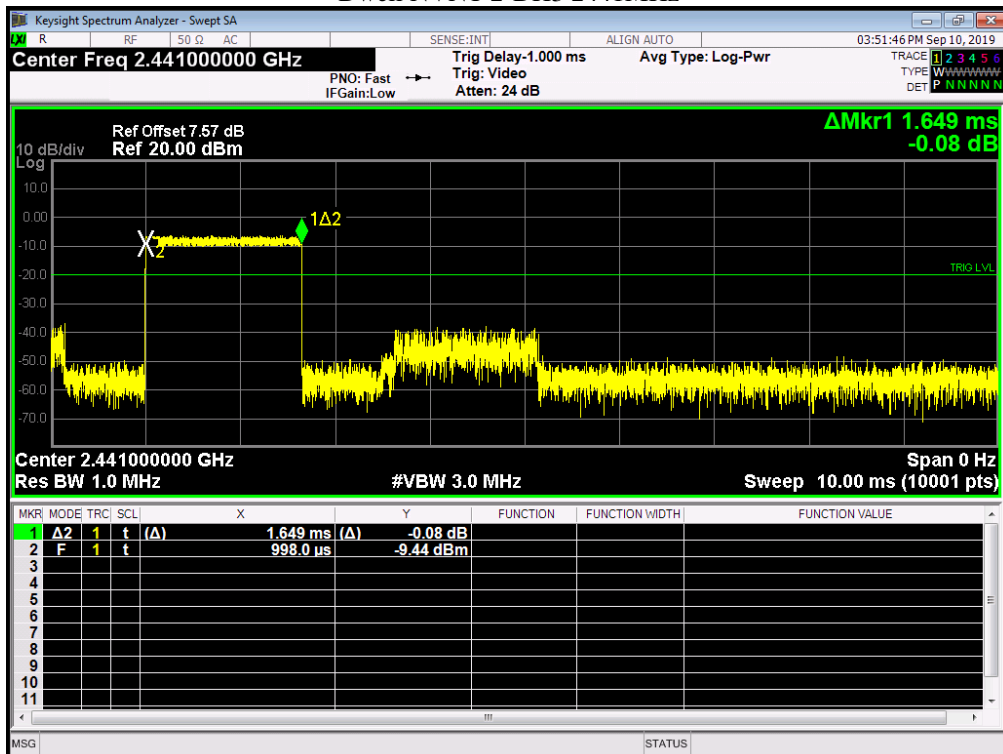


Condition	Mode	Frequency (MHz)	Pulse Time (ms)	Total Dwell Time (ms)	Period Time (ms)	Limit (ms)	Verdict
NVNT	2-DH3	2402	1.648	260.384	31600	400	Pass
NVNT	2-DH3	2441	1.649	260.542	31600	400	Pass
NVNT	2-DH3	2480	1.644	259.752	31600	400	Pass

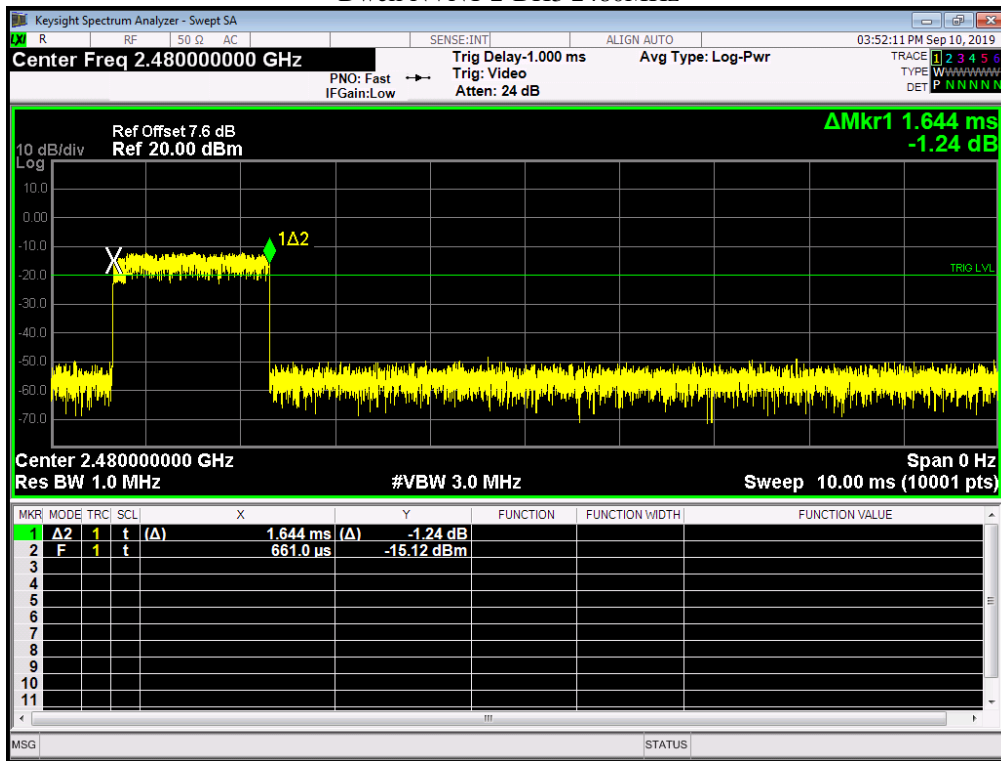
Dwell NVNT 2-DH3 2402MHz



Dwell NVNT 2-DH3 2441MHz

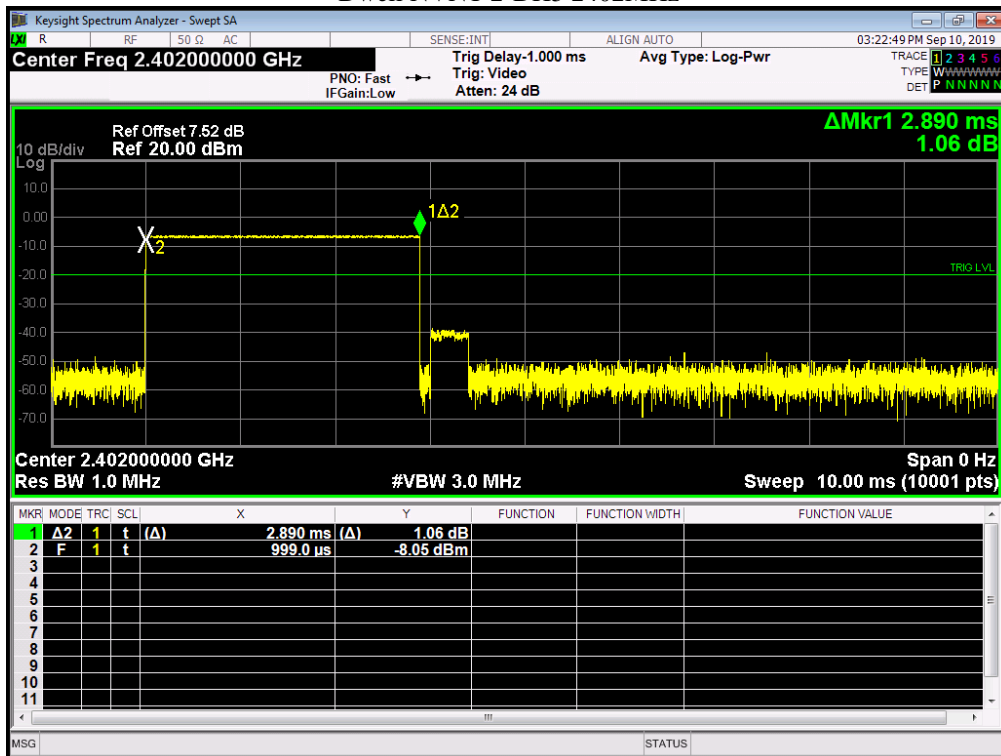


Dwell NVNT 2-DH3 2480MHz

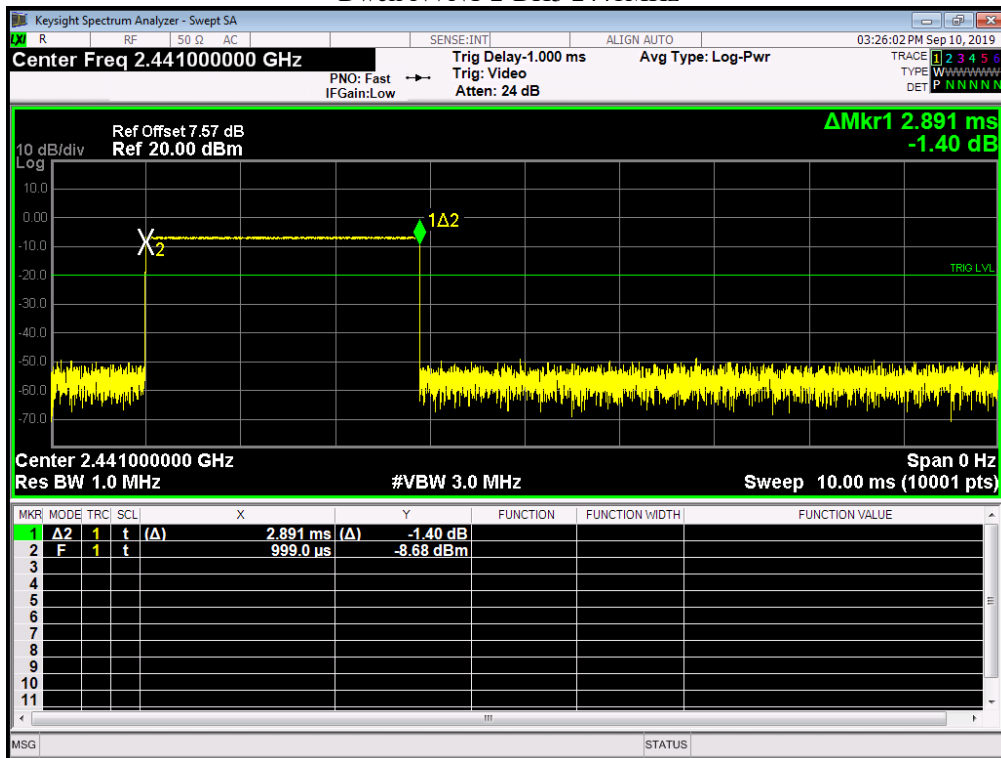


Condition	Mode	Frequency (MHz)	Pulse Time (ms)	Total Dwell Time (ms)	Period Time (ms)	Limit (ms)	Verdict
NVNT	2-DH5	2402	2.89	273.972	31600	400	Pass
NVNT	2-DH5	2441	2.891	274.067	31600	400	Pass
NVNT	2-DH5	2480	2.891	274.067	31600	400	Pass

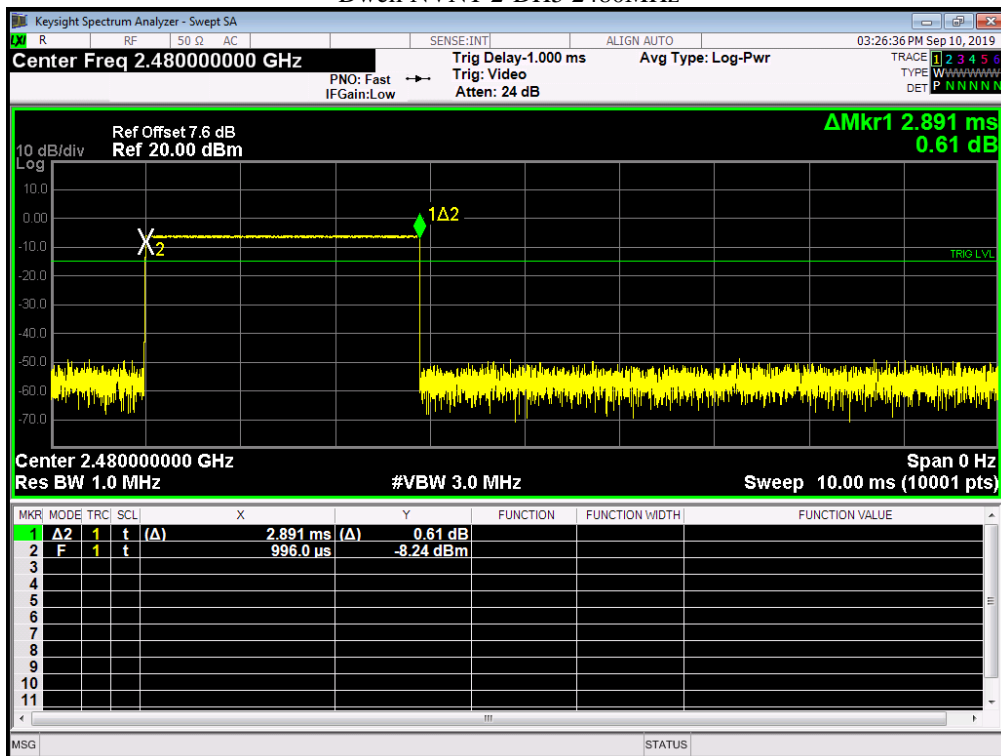
Dwell NVNT 2-DH5 2402MHz



Dwell NVNT 2-DH5 2441MHz

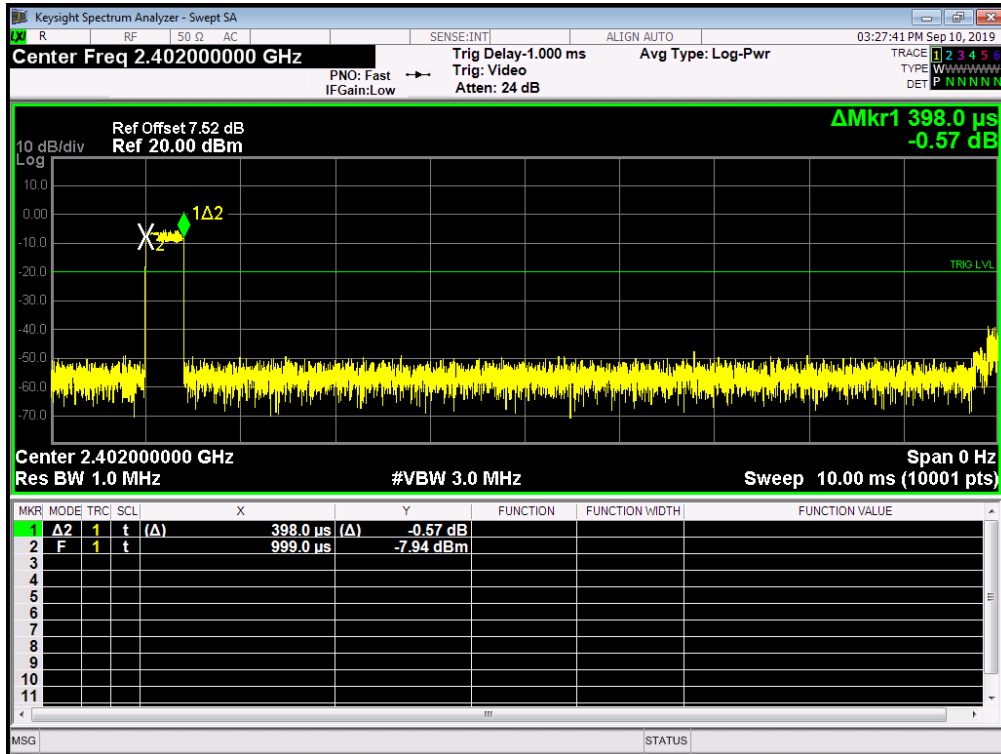


Dwell NVNT 2-DH5 2480MHz

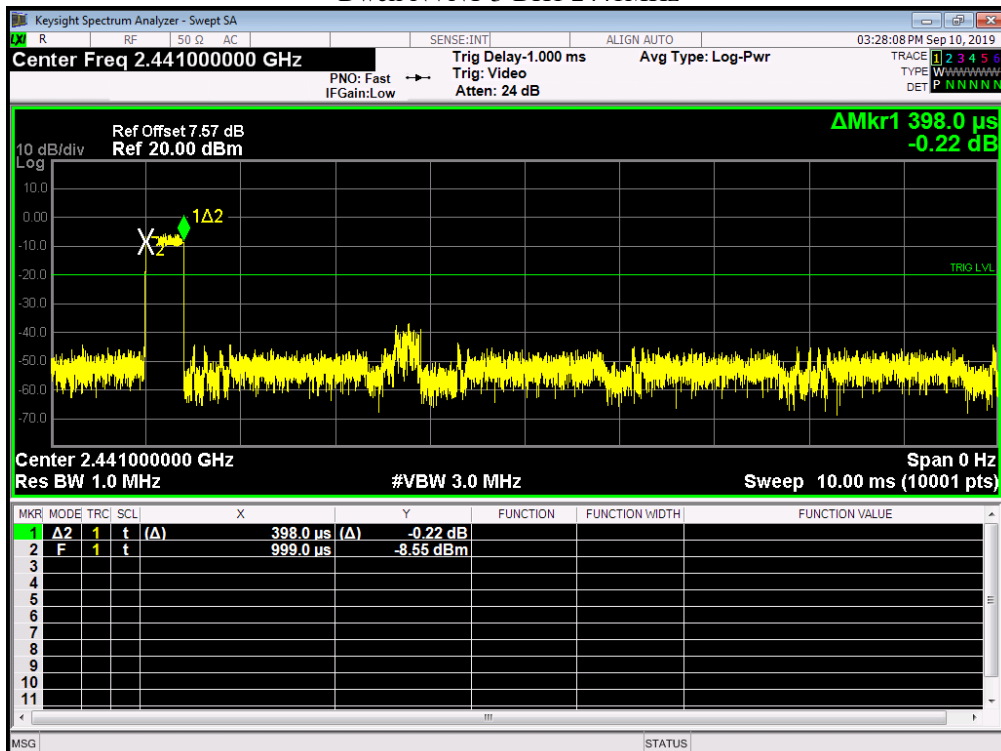


Condition	Mode	Frequency (MHz)	Pulse Time (ms)	Total Dwell Time (ms)	Period Time (ms)	Limit (ms)	Verdict
NVNT	3-DH1	2402	0.398	125.768	31600	400	Pass
NVNT	3-DH1	2441	0.398	125.768	31600	400	Pass
NVNT	3-DH1	2480	0.373	117.868	31600	400	Pass

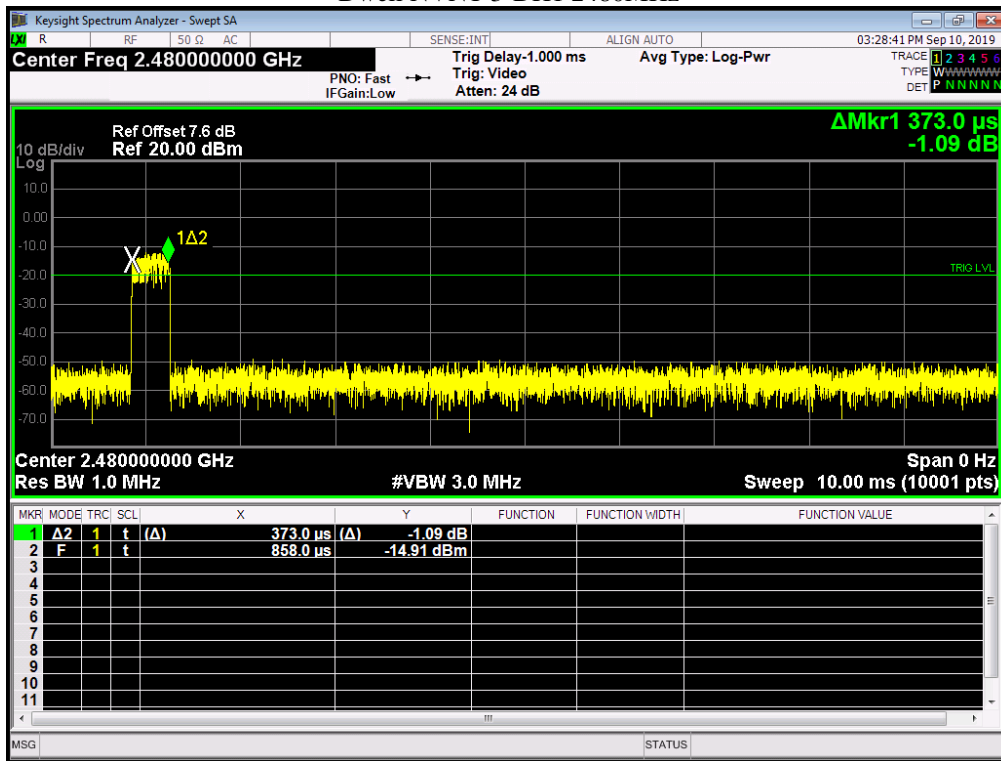
Dwell NVNT 3-DH1 2402MHz



Dwell NVNT 3-DH1 2441MHz

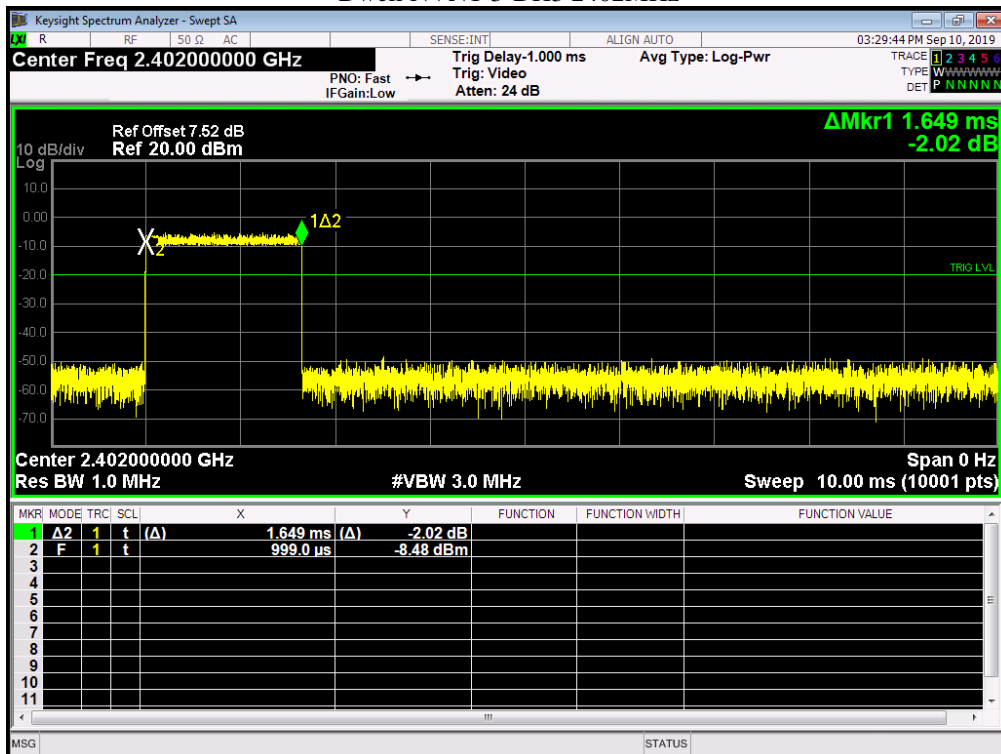


Dwell NVNT 3-DH1 2480MHz

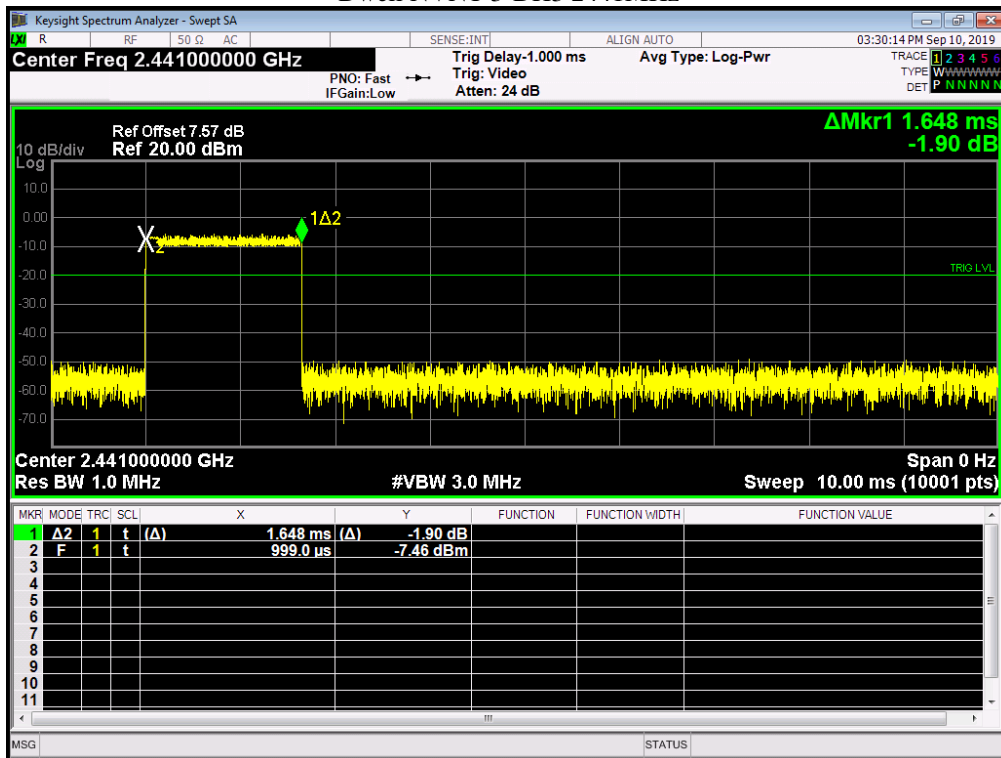


Condition	Mode	Frequency (MHz)	Pulse Time (ms)	Total Dwell Time (ms)	Period Time (ms)	Limit (ms)	Verdict
NVNT	3-DH3	2402	1.649	260.542	31600	400	Pass
NVNT	3-DH3	2441	1.648	260.384	31600	400	Pass
NVNT	3-DH3	2480	1.649	260.542	31600	400	Pass

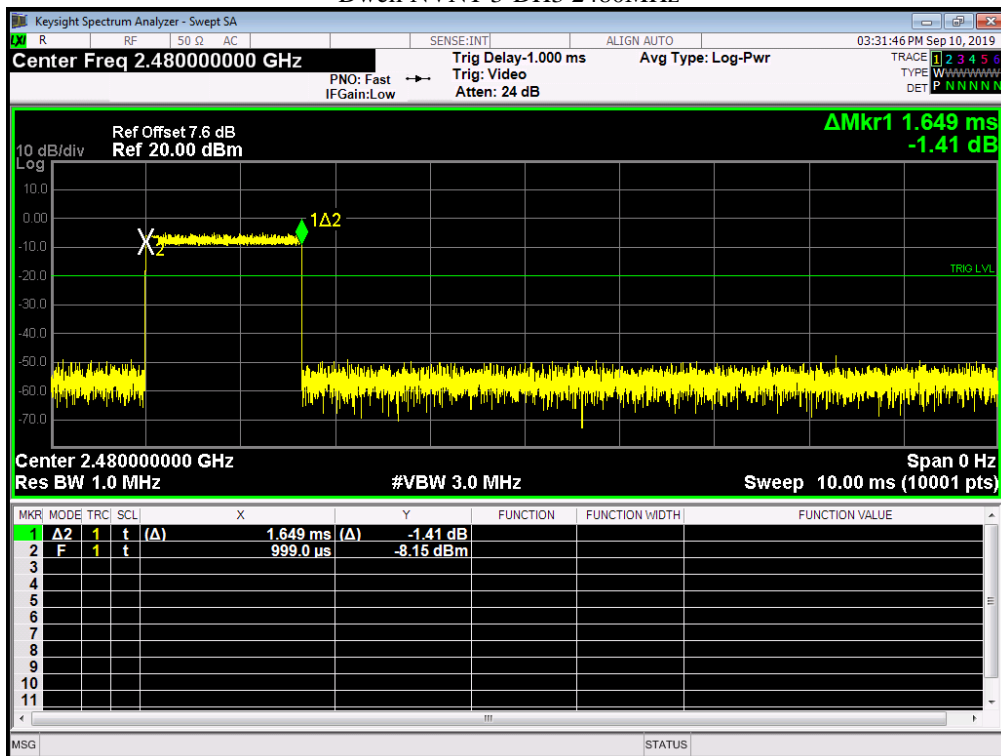
Dwell NVNT 3-DH3 2402MHz



Dwell NVNT 3-DH3 2441MHz

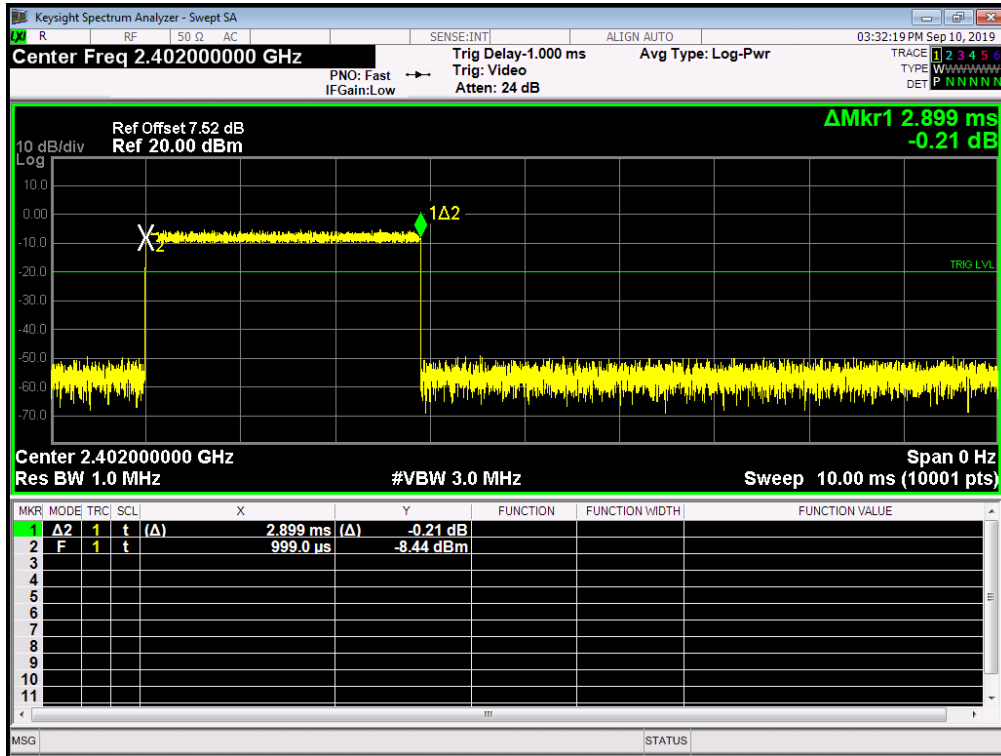


Dwell NVNT 3-DH3 2480MHz

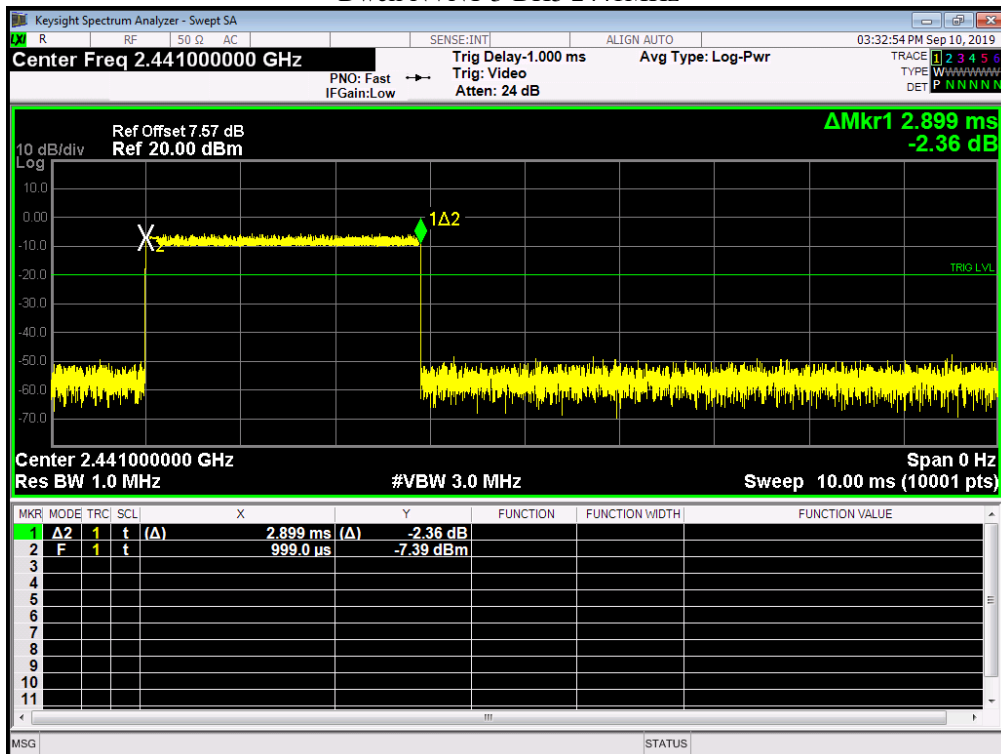


Condition	Mode	Frequency (MHz)	Pulse Time (ms)	Total Dwell Time (ms)	Period Time (ms)	Limit (ms)	Verdict
NVNT	3-DH5	2402	2.899	274.825	31600	400	Pass
NVNT	3-DH5	2441	2.899	274.825	31600	400	Pass
NVNT	3-DH5	2480	2.871	272.171	31600	400	Pass

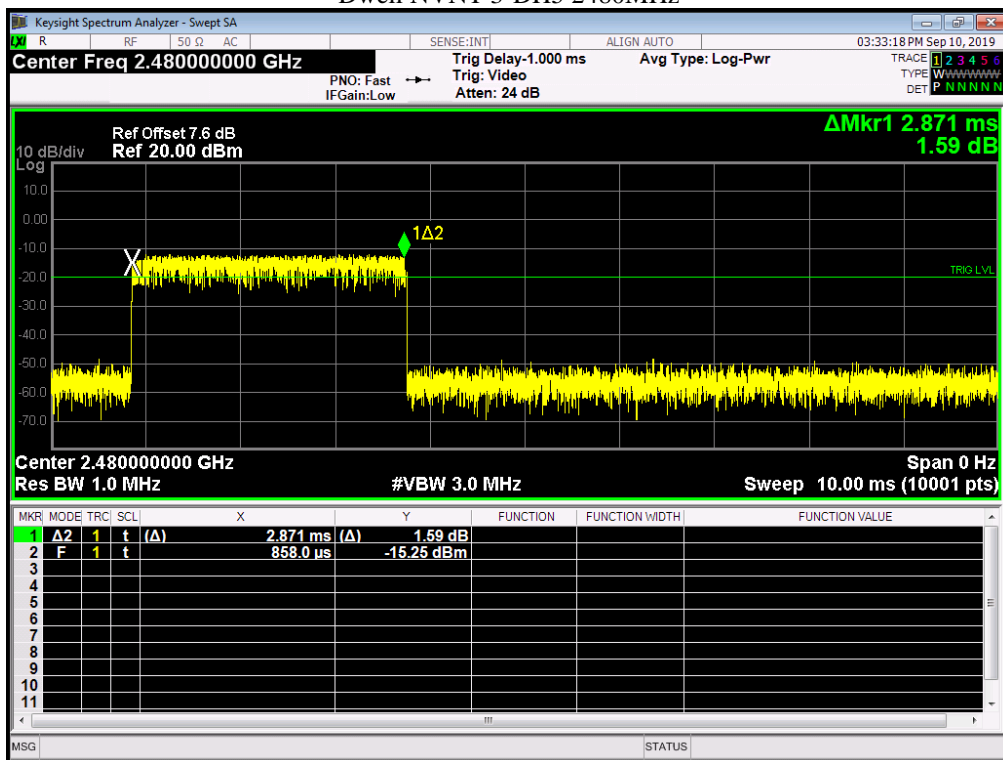
Dwell NVNT 3-DH5 2402MHz



Dwell NVNT 3-DH5 2441MHz



Dwell NVNT 3-DH5 2480MHz



10. Band edge

10.1. Applied procedures / Limit

15.247(d) 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 Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

10.2. Test procedure

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- b. Span = wide enough to capture the peak level of the emission operating on the channel closest to the band edge, as well as any modulation products which fall outside of the authorized band of operation, RBW \geq 1% of the span, VBW \geq RBW, Sweep = auto, Detector function = peak, Trace = max hold

10.3. Deviation from standard

No deviation.

10.4. Test setup



10.5. Test results