



FCC TEST REPORT

FCC ID: 2AUL6-EC-C1400

On Behalf of

Zagg US

Shape-Cutter

Model No.: EC-C1400

Prepared for : Zagg US
Address : 910 Legacy Center Way #500, Midvale, UT 84047, USA

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

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Date of Receipt : September 07, 2019
Date of Test : September 07, 2019- September 17, 2019
Date of Report : September 18, 2019
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TEST REPORT DECLARATION

Applicant : Zagg US
Address : 910 Legacy Center Way #500, Midvale, UT 84047, USA
Manufacturer : Ellison Educational Equipment(Huizhou)LTD
Address : Shiwan Town, Boluo County, Huizhou City, Guangdong Province
EUT Description : Shape-Cutter
(A) Model No. : EC-C1400
(B) Trademark : N/A

Measurement Standard Used:

**FCC Rules and Regulations Part 15 Subpart C Section 15.247,
ANSI C63.10:2013**


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

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

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

Tested by (name + signature).....:

Ella Liang
Project Engineer



Approved by (name + signature).....:

Simple Guan
Project Manager



Date of issue.....:

September 18, 2019

Revision History

Revision	Issue Date	Revisions	Revised By
00	September 18, 2019	Initial released Issue	Simple Guan

1. SUMMARY OF STANDARDS AND RESULTS


1.1. Description of Standards and Results

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

Test Item	Standards Paragraph	Result
Maximum Peak Output Power	FCC Part 15: 15.247(b)(1) ANSI C63.10 :2013	P
Bandwidth	FCC Part 15: 15.215 ANSI C63.10 :2013	P
Carrier Frequency Separation	FCC Part 15: 15.247(a)(1) ANSI C63.10 :2013	P
Number Of Hopping Channel	FCC Part 15: 15.247(a)(1)(iii) ANSI C63.10 :2013	P
Dwell Time	FCC Part 15: 15.247(a)(1)(iii) ANSI C63.10 :2013	P
Radiated Emission	FCC Part 15: 15.209 FCC Part 15: 15.247(d) ANSI C63.10 :2013	P
Band Edge Compliance	FCC Part 15: 15.247(d) ANSI C63.10 :2013	P
Power Line Conducted Emissions	FCC Part 15: 15.207 ANSI C63.10 :2013	P
Antenna requirement	FCC Part 15: 15.203	P
Note:	1. P is an abbreviation for Pass. 2. F is an abbreviation for Fail. 3. N/A is an abbreviation for Not Applicable.	

2. GENERAL INFORMATION

2.1. Description of Device (EUT)

Description	:	Shape-Cutter
Model Number	:	EC-C1400
Note	:	N/A
Trademark	:	N/A
Test Voltage	:	For Adapter: Input:100-240V~, 50/60Hz 1.5A Output: 24V  1.5A
Radio Technology	:	Bluetooth V4.0+BLE
Operation frequency	:	2402-2480MHz
Channel No.	:	79 Channels
Modulation type	:	GFSK, $\pi/4$ DQPSK, 8- DPSK
Antenna Type	:	Internal Antenna, 0dBi(Max.)
Software version	:	V1.0
Hardware version	:	V1.8

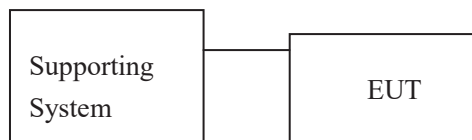
2.2. Accessories of Device (EUT)

Accessories1	:	AC/DC ADAPTER
Manufacturer	:	FOSHAN SHUNDE GUANYUDA POWER SUPPLY CO.,LTD
Model	:	GM42-240150-D
Ratings	:	Input:100-240V~, 50/60Hz 1.5A Output: 24V $\overline{\text{---}}$ 1.5A

2.3. Tested Supporting System Details

No.	Description	Manufacturer	Model	Serial Number	Certification or DOC
1.	Notebook	ACER	ZQT	N/A	DOC

2.4. Block Diagram of connection between EUT and simulators



2.5. Test Mode Description

Tested mode, channel, and data rate information		
Mode	Channel	Frequency (MHz)
GFSK	Low :CH1	2402
	Middle: CH40	2441
	High: CH79	2480
π /4 DQPSK	Low :CH1	2402
	Middle: CH40	2441
	High: CH79	2480
8- DPSK	Low :CH1	2402
	Middle: CH40	2441
	High: CH79	2480

2.6. Test Conditions

Items	Required	Actual
Temperature range:	15-35°C	27°C
Humidity range:	25-75%	56%
Pressure range:	86-106kPa	98kPa

2.7. Test Facility

Shenzhen Alpha Product Testing Co., Ltd

Building i, No.2, Lixin Road, Fuyong Street, Bao'an District, 518103,
Shenzhen, Guangdong, China

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

July 15, 2019 Certificated by IC
Registration Number: 12135A

2.8. Measurement Uncertainty

(95% confidence levels, k=2)

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

2.9. Test Equipment List

Equipment	Manufacture	Model No.	Serial No.	Last cal.	Cal Interval
3m Semi-Anechoic	ETS-LINDGREN	N/A	SEL0017	2018.09.21	1Year
Spectrum analyzer	Agilent	E4407B	MY46185649	2018.09.21	1Year
Receiver	R&S	ESCI	1166.5950K03-1011	2018.09.21	1Year
Receiver	R&S	ESCI	101202	2018.09.21	1Year
Bilog Antenna	Schwarzbeck	VULB 9168	VULB9168-438	2019.04.12	2Year
Horn Antenna	EMCO	3115	640201028-06	2019.04.12	2Year
Active Loop Antenna	Beijing Daze	ZN30900A	SEL0097	2019.04.12	2Year
Cable	Resenberger	N/A	No.1	2018.09.21	1Year
Cable	SCHWARZBECK	N/A	No.2	2018.09.21	1Year
Cable	SCHWARZBECK	N/A	No.3	2018.09.21	1Year
Pre-amplifier	Schwarzbeck	BBV9743	9743-019	2018.09.21	1Year
Pre-amplifier	R&S	AFS33-18002650-30-8P-44	SEL0080	2018.09.21	1Year
Temperature controller	Terchy	MHQ	120	2018.09.21	1Year
L.I.S.N.#1	Schwarzbeck	NSLK8126	8126466	2018.09.21	1Year
L.I.S.N.#2	ROHDE&SCHWARZ	ENV216	101043	2018.09.21	1 Year
20db Attenuator	ICPROBING	IATS1	82347	2018.09.21	1 Year
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA 9170294	2019.04.12	2 Year
Power Meter	Anritsu	ML2487A	6K00001491	2018.09.21	1 Year

3. MAXIMUM PEAK OUTPUT POWER

3.1.Limit

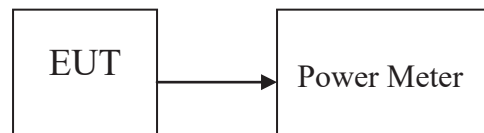
Please refer section 15.247.

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, the e.i.r.p shall not exceed 4W

3.2.Test Procedure

The transmitter output is connected to the RF Power Meter. The RF Power Meter is set to the peak power detection.

3.3.Test Setup



3.4.Test Result

Mode	Freq (MHz)	PK Output Power (dBm)	PK Output Power (mW)	Limit (dBm)	Result
GFSK	2402	1.814	1.518	30	Pass
	2441	-0.46	0.899	30	Pass
	2480	-1.86	0.652	30	Pass
π /4 DQPSK	2402	3.165	2.073	21	Pass
	2441	1.026	1.266	21	Pass
	2480	0.035	1.008	21	Pass
8- DPSK	2402	3.754	2.374	21	Pass
	2441	0.661	1.164	21	Pass
	2480	-0.932	0.807	21	Pass
Conclusion: PASS					

4. BANDWIDTH

4.1.Limit

Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§ 15.217 through 15.257 and in Subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.

4.2.Test Procedure

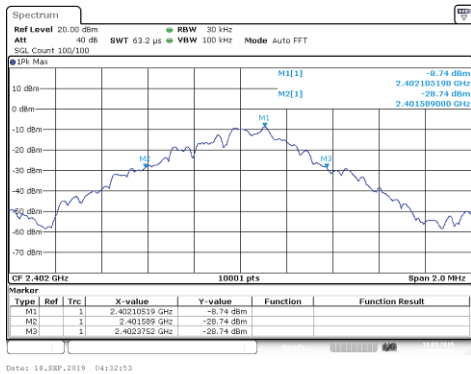
The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with 30kHz RBW and 100kHz VBW. The 20dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 20dB.

4.3.Test Result

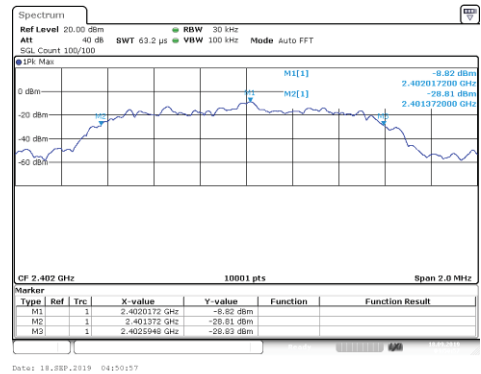
Mode	Freq (MHz)	20dB Bandwidth (KHz)	Conclusion
GFSK	2402	786.2	PASS
	2441	933.4	PASS
	2480	930	PASS
π /4 DQPSK	2402	1222.8	PASS
	2441	1312.4	PASS
	2480	1228.	PASS
8- DPSK	2402	1263.4	PASS
	2441	1265.8	PASS
	2480	1220.6	PASS

Original Test data For 20dB bandwidth

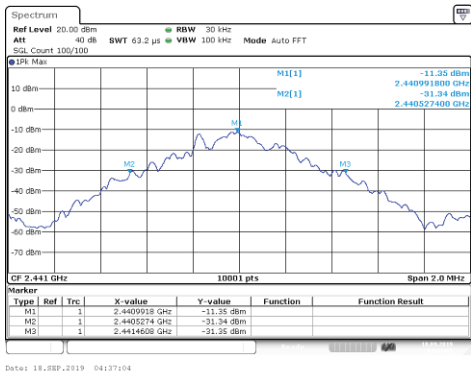
GFSK mode	π /4 DQPSK
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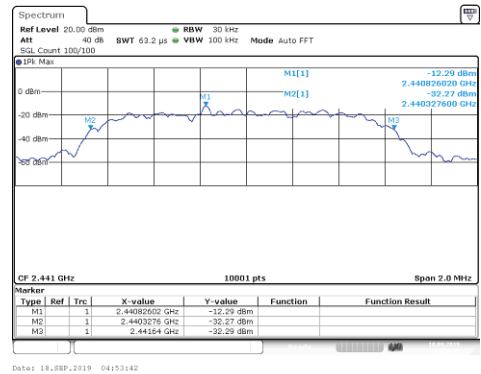
Lowest channel



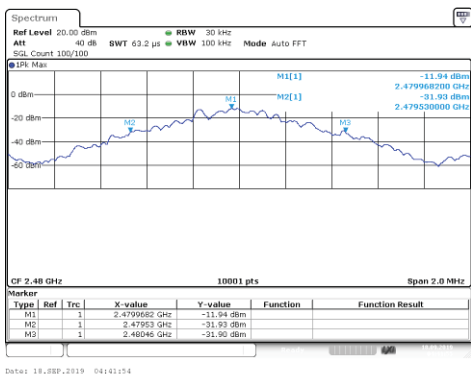
Lowest channel



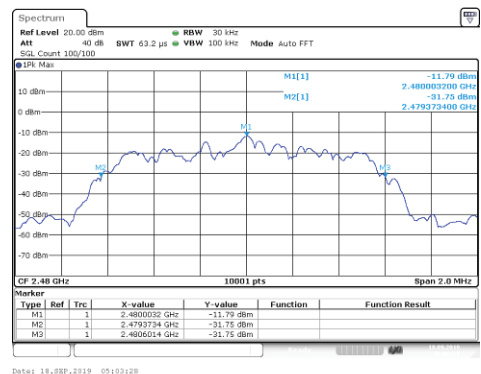
Middle channel



Middle channel

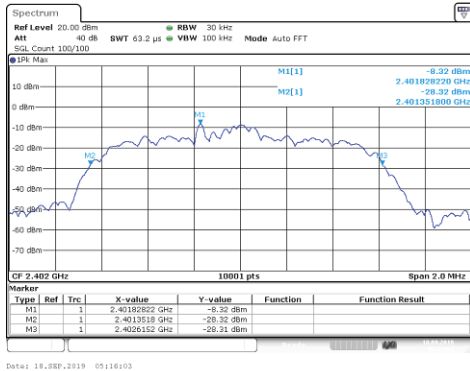


Highest channel

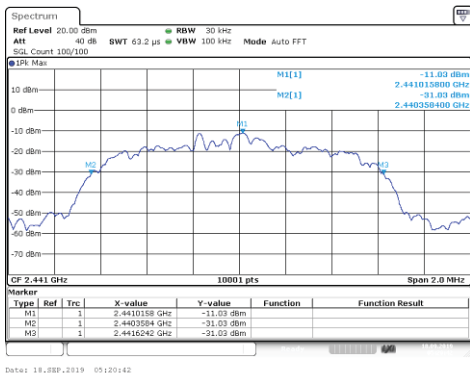


Highest channel

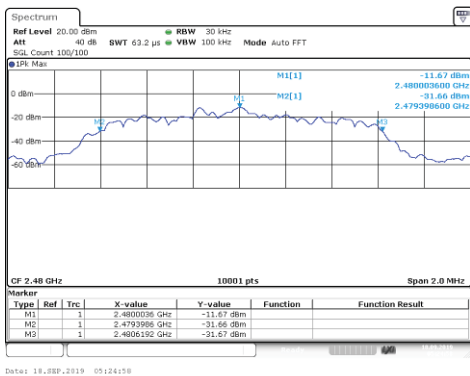
8- DPSK



Lowest channel



Middle channel



Highest channel

:

5. CARRIER FREQUENCY SEPARATION

5.1.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 2400-2483.5 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

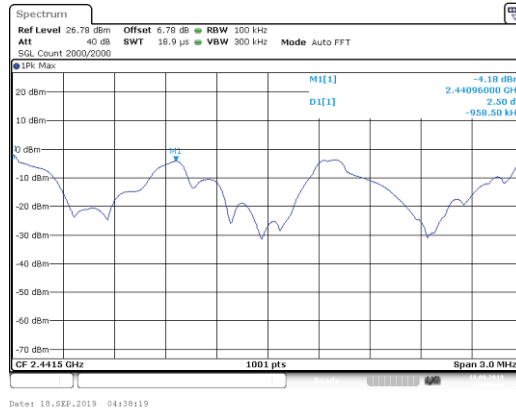
5.2.Test Procedure

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The carrier frequency was measured by spectrum analyzer with 20kHz RBW and 62kHz VBW.

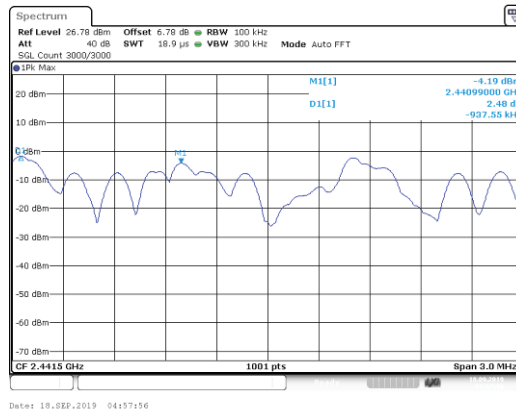
5.3.Test Result

Mode/Channel	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
GFSK	2440.96	2441.89	0.93	0.622	Pass
$\pi/4$ DQPSK	2440.99	2442.001	1.011	0.875	Pass
8- DPSK	2440.981	2442.112	1.131	0.844	Pass

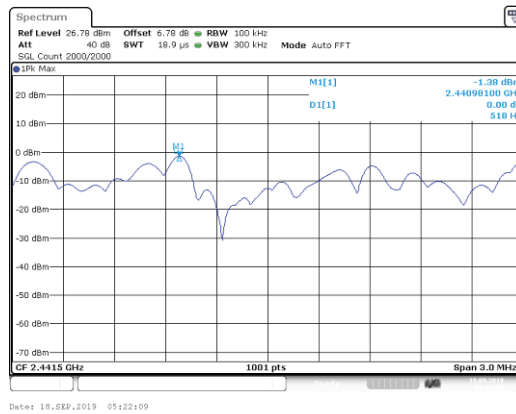
Original test data for channel separation



GFSK



$\pi/4$ DQPSK



8- DPSK

6. NUMBER OF HOPPING CHANNEL

6.1.Limit

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

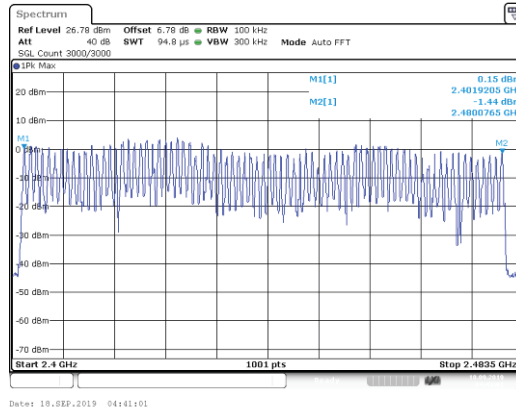
6.2.Test Procedure

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The number of hopping channel was measured by spectrum analyzer with 100kHz RBW and 300KHz VBW.

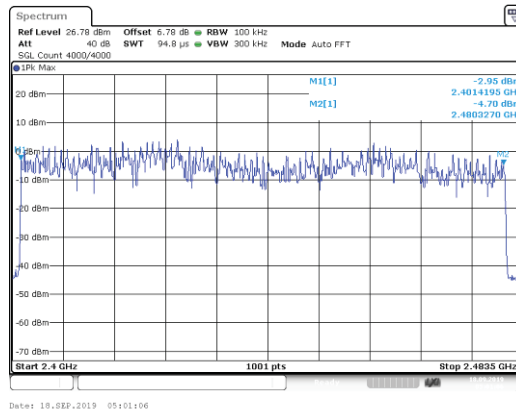
6.3.Test Result

Mode	Number of hopping channel	Limit	Conclusion
GFSK	79	>15	PASS
π /4 DQPSK	79	>15	PASS
8- DPSK	79	>15	PASS

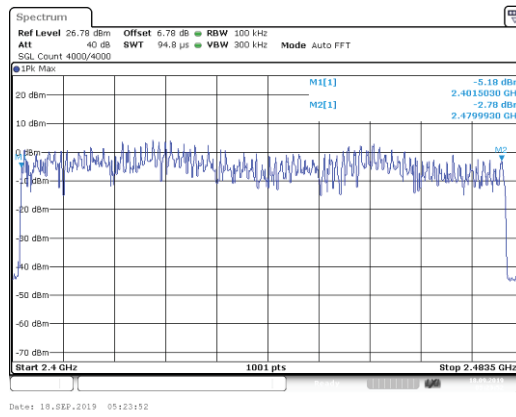
Original test data for hopping channel number



GFSK



$\pi/4$ DQPSK



8- DPSK

7. DWELL TIME

7.1. Test limit

Please refer section 15.247

According to §15.247(a)(1)(iii), Frequency hopping systems operating in the 2400MHz-2483.5 MHz. The average time of occupancy on any frequency shall not be greater than 0.4 s within period of 0.4 seconds multiplied by the number of hopping channels employed.

7.2. Test Procedure

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

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

7.2.3. Set center frequency of spectrum analyzer = operating frequency.

7.2.4. Set the spectrum analyzer as RBW=1MHz, VBW=1MHz, Span = 0Hz, Sweep = auto.

7.2.5. Repeat above procedures until all frequencies measured were complete.

7.3. Test Result

PASS.

Detailed information please see the following page.

Mode	Data Packet	Frequency (MHz)	Pulse Duration (ms)	Dwell Time (ms)	Limit (ms)	Conclusion
GFSK	DH1	2441	0.376	120.320	400	PASS
	DH3	2441	1.633	261.280		PASS
	DH5	2441	2.881	307.307		PASS
π /4 DQPSK	DH1	2441	0.388	124.160	400	PASS
	DH3	2441	1.640	262.400		PASS
	DH5	2441	2.888	308.053		PASS
8- DPSK	DH1	2441	0.388	124.160	400	PASS
	DH3	2441	1.640	262.400		PASS
	DH5	2441	2.890	308.267		PASS

Note: 1 A period time = 0.4 (s) * 79 = 31.6(s)

2 DH1 time slot = Pulse Duration * (1600/(2*79)) * A period time/1000

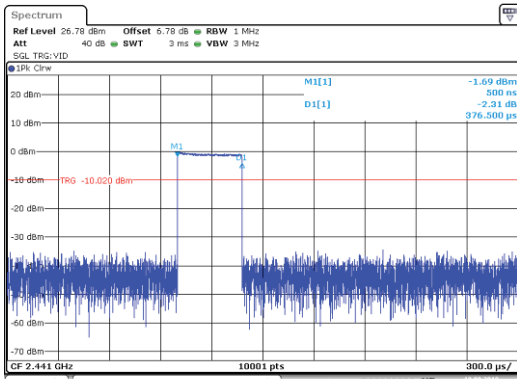
DH3 time slot = Pulse Duration * (1600/(4*79)) * A period time/1000

DH5 time slot = Pulse Duration * (1600/(6*79)) * A period time/1000

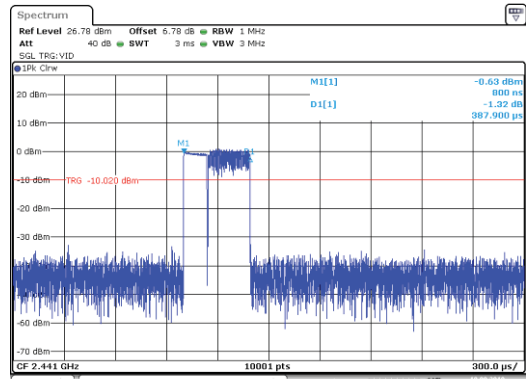
Dwell time

GFSK

$\pi/4$ -DQPSK



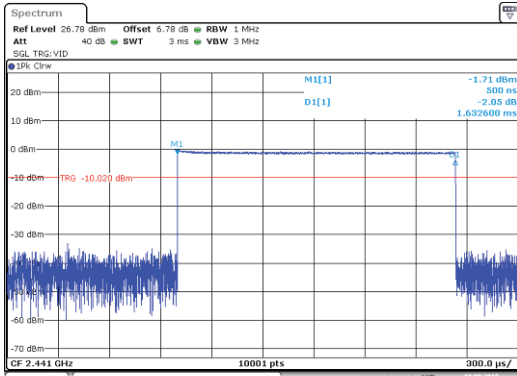
Date: 18_SEP.2019 04:59:23



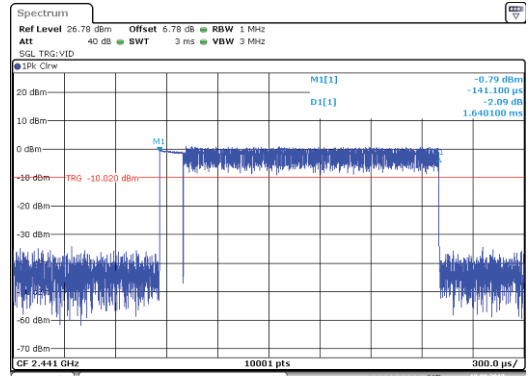
Date: 18_SEP.2019 04:59:51

Channel 39 / 2441 MHz - DH1

Channel 39 / 2441 MHz - 2DH1



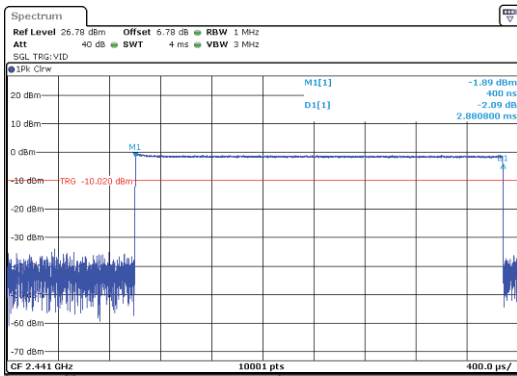
Date: 18_SEP.2019 04:57:37



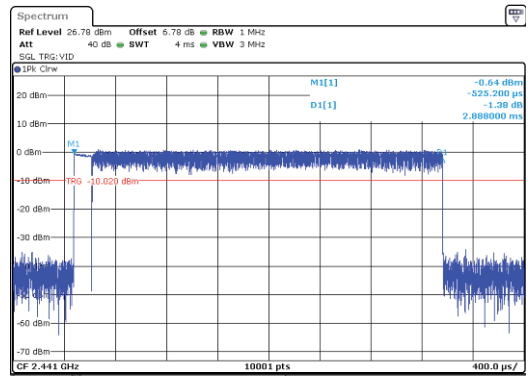
Date: 18_SEP.2019 05:09:06

Channel 39 / 2441 MHz - DH3

Channel 39 / 2441 MHz - 2DH3



Date: 18_SEP.2019 04:50:12



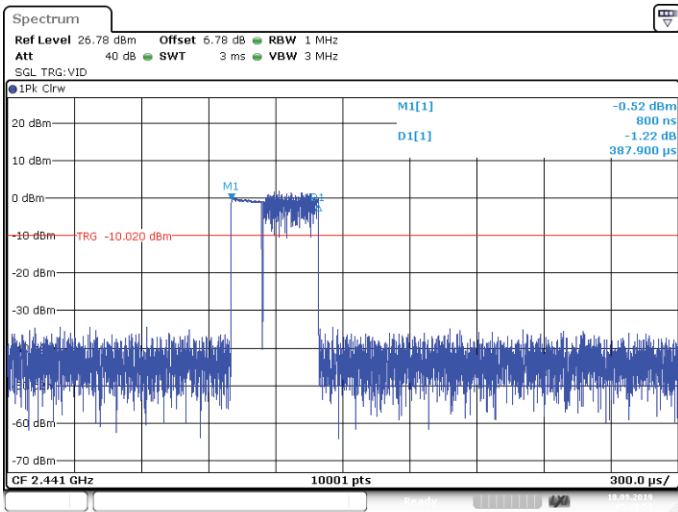
Date: 18_SEP.2019 05:11:27

Channel 39 / 2441 MHz - DH5

Channel 39 / 2441 MHz - 2DH5

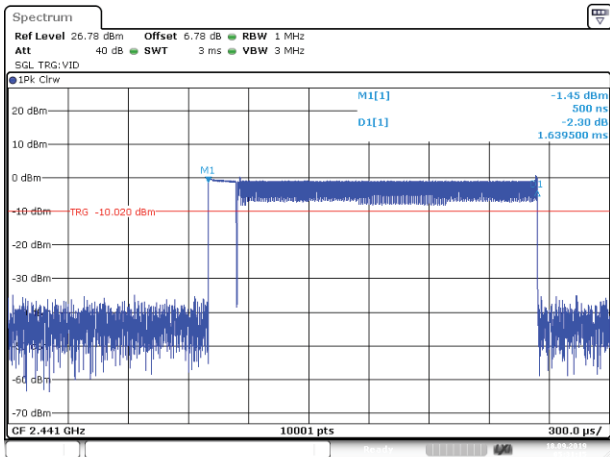
Dwell time

8DPSK



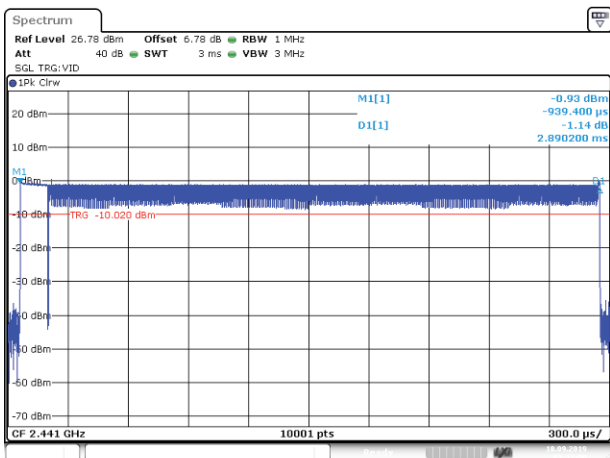
Date: 18_SEP_2019 05:20:53

Channel 39 / 2441 MHz - 3DH1



Date: 18_SEP_2019 05:31:15

2 Channel 39 / 2441 MHz - 3DH3



Date: 18_SEP_2019 05:33:00

Channel 39 / 2441 MHz - 3DH5

8. RADIATED EMISSIONS

8.1.Limit

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

15.205 Restricted frequency band

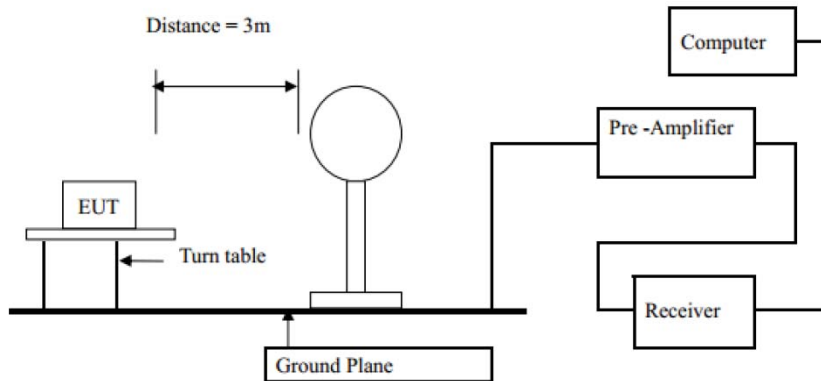
MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	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)

15.209 Limit

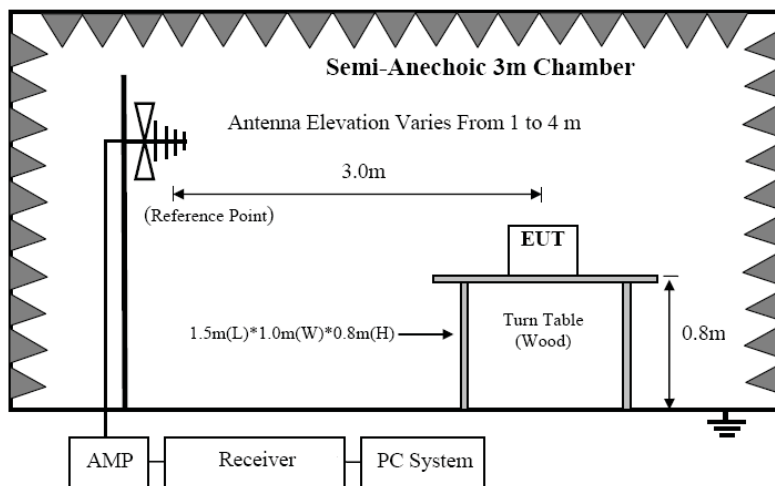
FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMIT	
		$\mu\text{V}/\text{m}$	$\text{dB}(\mu\text{V})/\text{m}$
0.009-0.490	300	2400/F(KHz)	/
0.490-1.705	30	24000/F(KHz)	/
1.705-30	30	30	29.5
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
960 ~ 1000	3	500	54.0
Above 1000	3	74.0 $\text{dB}(\mu\text{V})/\text{m}$ (Peak) 54.0 $\text{dB}(\mu\text{V})/\text{m}$ (Average)	

8.2. Block Diagram of Test setup

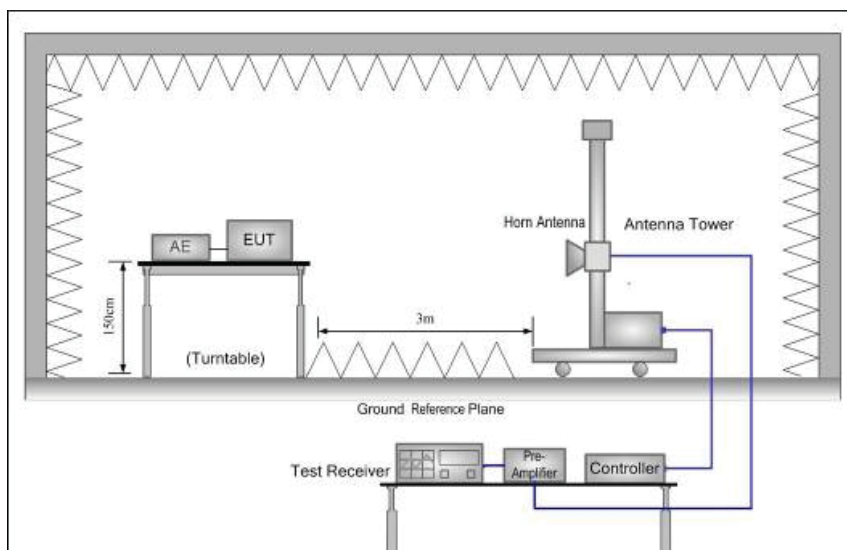
8.2.1 In 3m Anechoic Chamber Test Setup Diagram for below 30MHz



8.2.1 In 3m Anechoic Chamber Test Setup Diagram for below 1GHz



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



Note: For harmonic emissions test a appropriate high pass filter was inserted in the input port of AMP.

8.3. Test Procedure

- (1) EUT was placed on a non-metallic table, 80 cm above the ground plane inside a semi-anechoic chamber.
- (2) Setup EUT and simulator as shown in section 1.4 and 6.1
- (3) Test antenna was located 3m from the EUT on an adjustable mast. Below pre-scan procedure was first performed in order to find prominent radiated emissions.
 - (a) Change work frequency or channel of device if practicable.
 - (b) Change modulation type of device if practicable.
 - (c) Rotated EUT though three orthogonal axes to determine the attitude of EUT arrangement produces highest emissions
- (4) Spectrum frequency from 9KHz to 25GHz (tenth harmonic of fundamental frequency) was investigated
- (5) For final emissions measurements at each frequency of interest, the EUT were rotated and the antenna height was varied between 1m and 4m in order to maximize the emission. Measurements in both horizontal and vertical polarities were made and the data was recorded. In order to find the maximum emission, the relative positions of equipments and all of the interface cables were changed according to ANSI C63.10 :2013on Radiated Emission test.
- (6) 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; RBW is set at 1MHz, VBW is set at 10Hz for Average measure.

8.4. Test Result

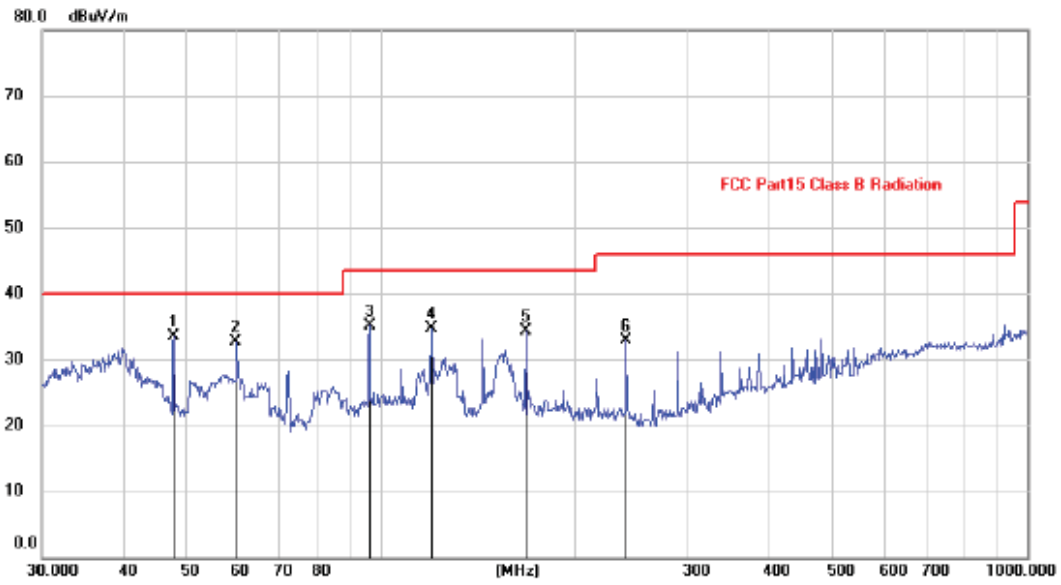
We have scanned the 10th harmonic from 9KHz to the EUT's highest frequency..
Detailed information please see the following page.

From 9KHz to 30MHz: Conclusion: PASS

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

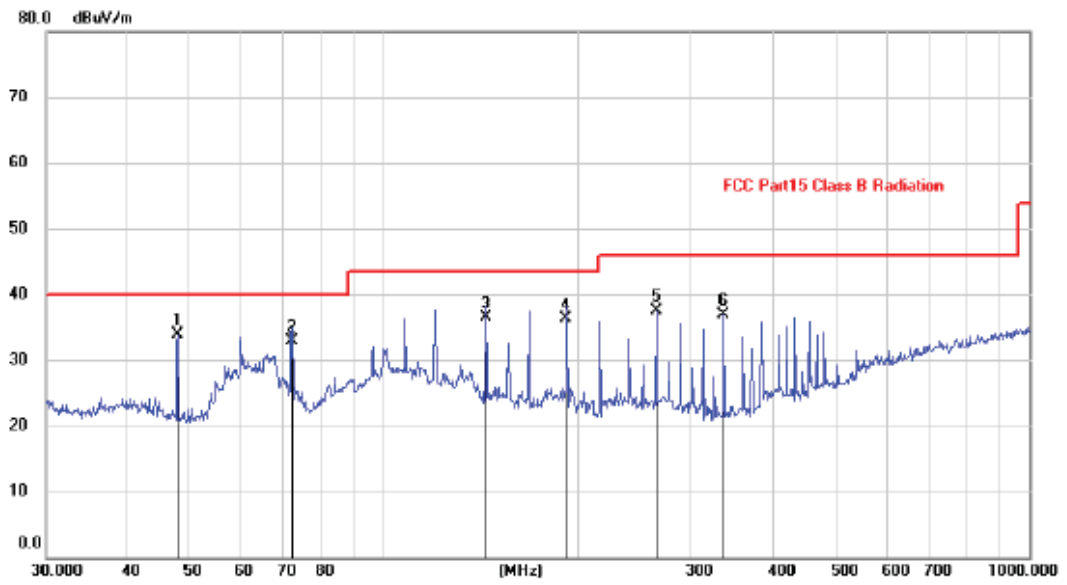
From 30MHz to 1000MHz: Conclusion: PASS

Vertical:



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin	Antenna	Table	
		MHz	dBuV	Factor	ment	dBuV/m	dB	Height	Degree	Comment
				dB	dBuV/m			cm	degree	
1	*	47.9938	19.43	14.08	33.51	40.00	-6.49	peak		
2		59.8588	19.48	13.25	32.73	40.00	-7.27	peak		
3		96.4360	24.61	10.59	35.20	43.50	-8.30	peak		
4		119.8555	21.78	13.02	34.80	43.50	-8.70	peak		
5		168.4137	20.07	14.23	34.30	43.50	-9.20	peak		
6		240.8300	20.41	12.57	32.98	46.00	-13.02	peak		

Horizontal:



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1	*	47.9939	19.81	14.08	33.89	40.00	-6.11			peak
2		72.0841	21.87	11.08	32.95	40.00	-7.05			QP
3		143.8294	21.96	14.60	36.56	43.50	-6.94			QP
4		191.7450	25.00	11.37	36.37	43.50	-7.13			QP
5		263.8190	24.44	13.09	37.53	46.00	-8.47			peak
6		336.0350	22.02	14.98	37.00	46.00	-9.00			peak

Remark: All modes have been tested, and only worst data of GFSK mode, Channel 2402MHz (AC 120V/ 60Hz) was listed in this report.

From 1G-25GHz

Test Mode: GFSK TX Low									
Freq (MHz)	Read Level (dBuV/m)	Polar (H/V)	Antenna Factor (dB/m)	Cable loss(dB)	Amp Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4804	43.54	V	33.95	10.18	34.26	53.41	74	20.59	PK
4804	30.32	V	33.95	10.18	34.26	40.19	54	13.81	AV
7206	/								
9608	/								
4804	42.32	H	33.95	10.18	34.26	52.19	74	21.81	PK
4804	32.34	H	33.95	10.18	34.26	42.21	54	11.79	AV
7206									
9608									
Test Mode: GFSK TX Mid									
4882	43.42	H	33.93	10.18	34.26	53.27	74	20.73	PK
4882	32.33	H	33.93	10.18	34.26	42.18	54	11.82	AV
7323	/								
9764	/								
4882	43.42	H	33.93	10.18	34.26	53.27	74	20.73	PK
4882	32.33	H	33.93	10.18	34.26	42.18	54	11.82	AV
7323									
9764									
Test Mode: GFSK TX High									
4960	42.23	V	33.98	10.18	34.26	52.13	74	21.87	PK
4960	33.86	V	33.98	10.18	34.26	43.76	54	10.24	AV
7440	/								
9920	/								
4960	43.54	H	33.98	10.18	34.26	53.44	74	20.56	PK
4960	31.44	H	33.98	10.18	34.26	41.34	54	12.66	AV
7440	/								
9920	/								
Note:									
1, Result = Read level + Antenna factor + cable loss-Amp factor									
2, All the other emissions not reported were too low to read and deemed to comply with FCC limit.									

From 1G-25GHz

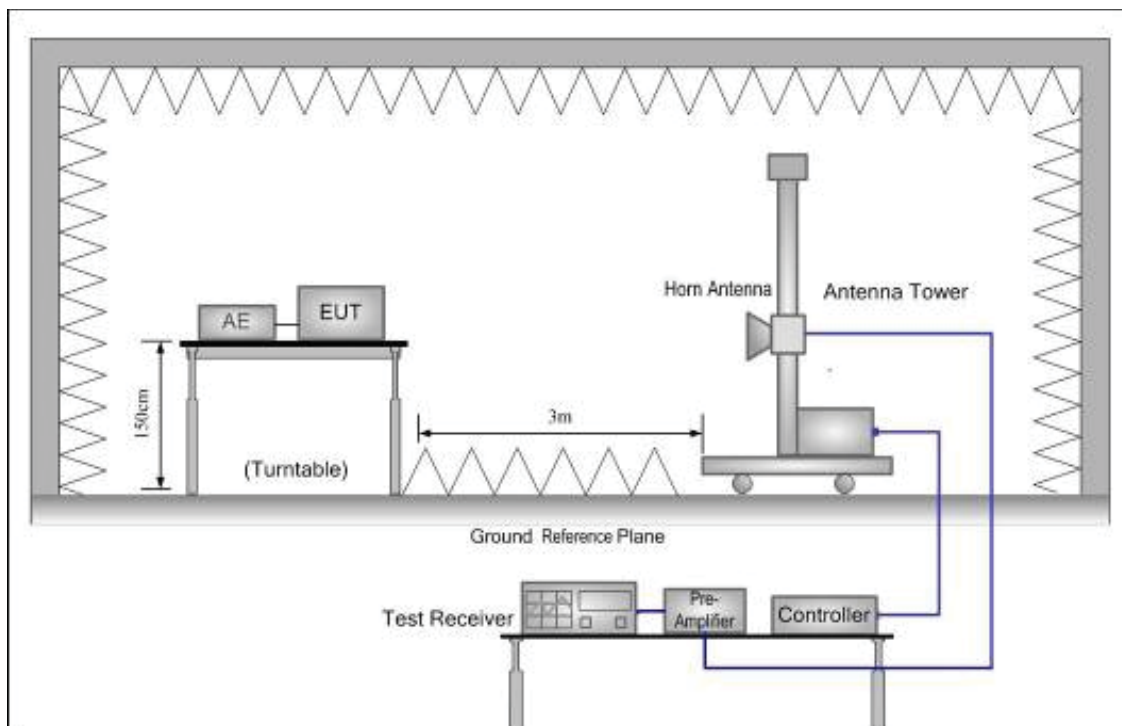
Test Mode: $\pi/4$ DQPSK TX Low									
Freq (MHz)	Read Level (dBuV/m)	Polar (H/V)	Antenna Factor (dB/m)	Cable loss(dB)	Amp Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4804	44.37	V	33.95	10.18	34.26	54.24	74	19.76	PK
4804	30.54	V	33.95	10.18	34.26	40.41	54	13.59	AV
7206	/		/						
9608	/		/						
4804	42.6	H	33.95	10.18	34.26	52.47	74	21.53	PK
4804	32.98	H	33.95	10.18	34.26	42.85	54	11.15	AV
7206									
9608									
Test Mode: $\pi/4$ DQPSK TX Mid									
4882	44.93	V	33.93	10.18	34.26	54.78	74	19.22	PK
4882	33.19	V	33.93	10.18	34.26	43.04	54	10.96	AV
7323	/								
9764	/								
4882	43.99	H	33.93	10.18	34.26	53.84	74	20.16	PK
4882	32.9	H	33.93	10.18	34.26	42.75	54	11.25	AV
7323									
9764									
Test Mode: $\pi/4$ DQPSK TX High									
4960	42.46	V	33.98	10.18	34.26	52.36	74	21.64	PK
4960	34.43	V	33.98	10.18	34.26	44.33	54	9.67	AV
7440	/								
9920	/								
4960	45.06	H	33.98	10.22	34.25	55.01	74	18.99	PK
4960	33.28	H	33.98	10.22	34.25	43.23	54	10.77	AV
7440	/								
9920	/								
Note:									
1, Result = Read level + Antenna factor + cable loss-Amp factor									
2, All the other emissions not reported were too low to read and deemed to comply with FCC limit.									

From 1G-25GHz

Test Mode: 8- DQPSK TX Low									
Freq (MHz)	Read Level (dBuV/m)	Polar (H/V)	Antenna Factor (dB/m)	Cable loss(dB)	Amp Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4804	44.32	V	33.95	10.18	34.26	54.19	74	19.81	PK
4804	30.75	V	33.95	10.18	34.26	40.62	54	13.38	AV
7206	/		/						
9608	/		/						
4804	42.75	H	33.95	10.18	34.26	52.62	74	21.38	PK
4804	32.54	H	33.95	10.18	34.26	42.41	54	11.59	AV
7206									
9608									
Test Mode: 8- DQPSK TX Mid									
4882	45.86	V	33.93	10.18	34.26	55.71	74	18.29	PK
4882	32.29	V	33.93	10.18	34.26	42.14	54	11.86	AV
7323	/								
9764	/								
4882	43.48	H	33.93	10.18	34.26	53.33	74	20.67	PK
4882	32.66	H	33.93	10.18	34.26	42.51	54	11.49	AV
7323									
9764									
Test Mode: 8- DQPSK TX High									
4960	42.43	V	33.98	10.18	34.26	52.33	74	21.67	PK
4960	34.83	V	33.98	10.18	34.26	44.73	54	9.27	AV
7440	/								
9920	/								
4960	43.93	H	33.98	10.18	34.26	53.83	74	20.17	PK
4960	32.21	H	33.98	10.18	34.26	42.11	54	11.89	AV
7440	/								
9920	/								
Note:									
1, Result = Read level + Antenna factor + cable loss-Amp factor									
2, All the other emissions not reported were too low to read and deemed to comply with FCC limit.									

9. BAND EDGE COMPLIANCE

9.1. Block Diagram of Test Setup



9.2. Limit

All the lower and upper band-edges emissions appearing within restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions outside operation shall be at least 20dB below the fundamental emissions, or comply with 15.209 limits.

9.3. Test Procedure

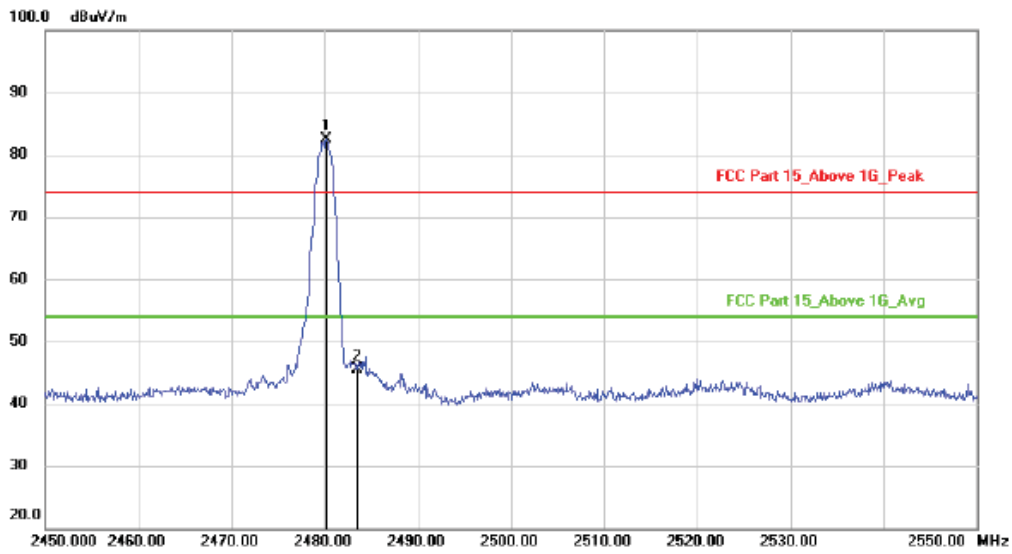
All restriction band and non- restriction band have been tested , only worse case is reported.

9.4. Test Result

PASS. (See below detailed test data)

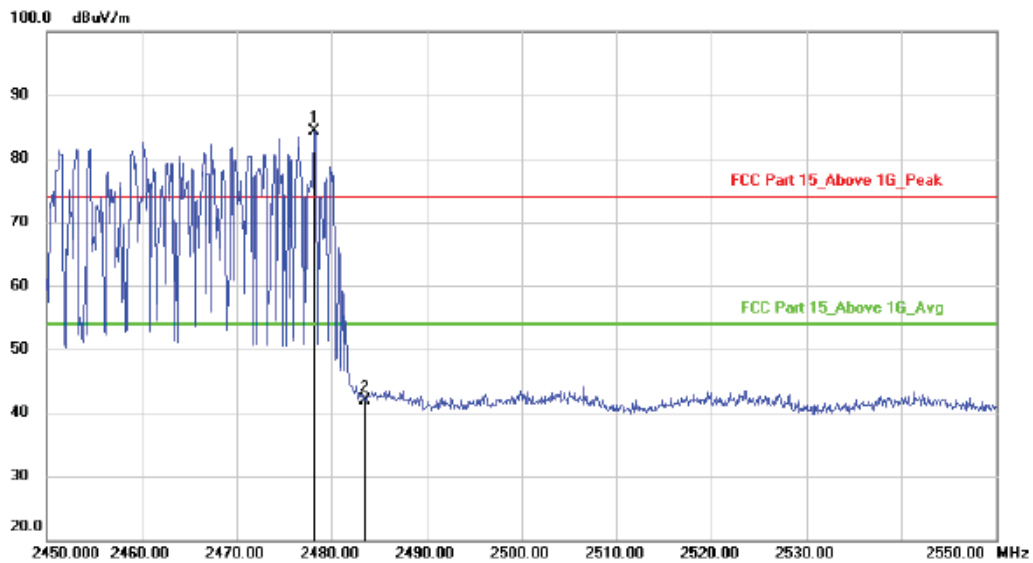
Polarization: Vertical

Test Mode: GFSK -High



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Antenna Height cm	Table Degree	Comment
1	*	2480.200	85.90	-3.38	82.52	74.00	8.52	peak			
2		2483.500	48.86	-3.38	45.48	74.00	-28.52	peak			

hopping-off

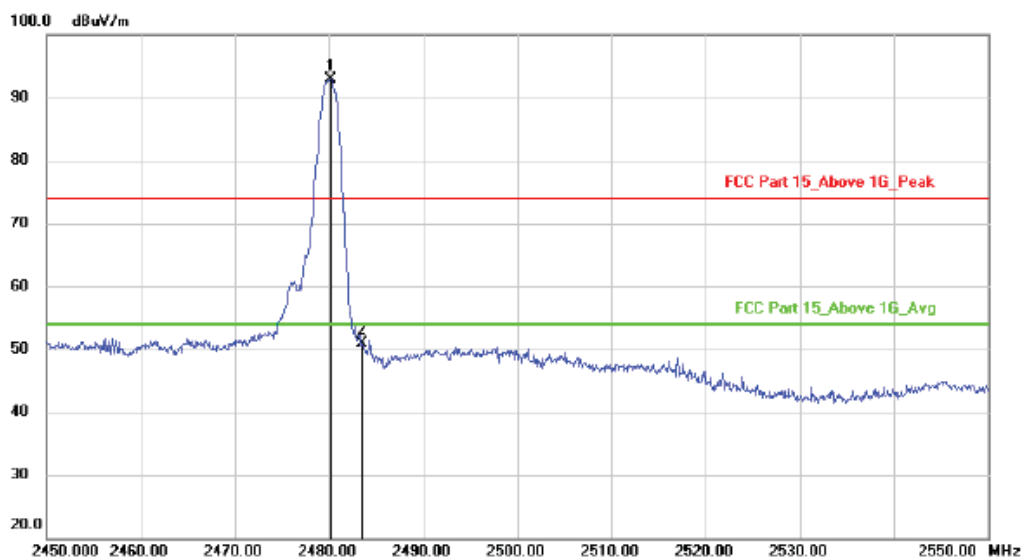


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Antenna Height cm	Table Degree	Comment
1	*	2478.200	87.72	-3.39	84.33	74.00	10.33	peak			
2		2483.500	45.26	-3.38	41.88	74.00	-32.12	peak			

hopping-on

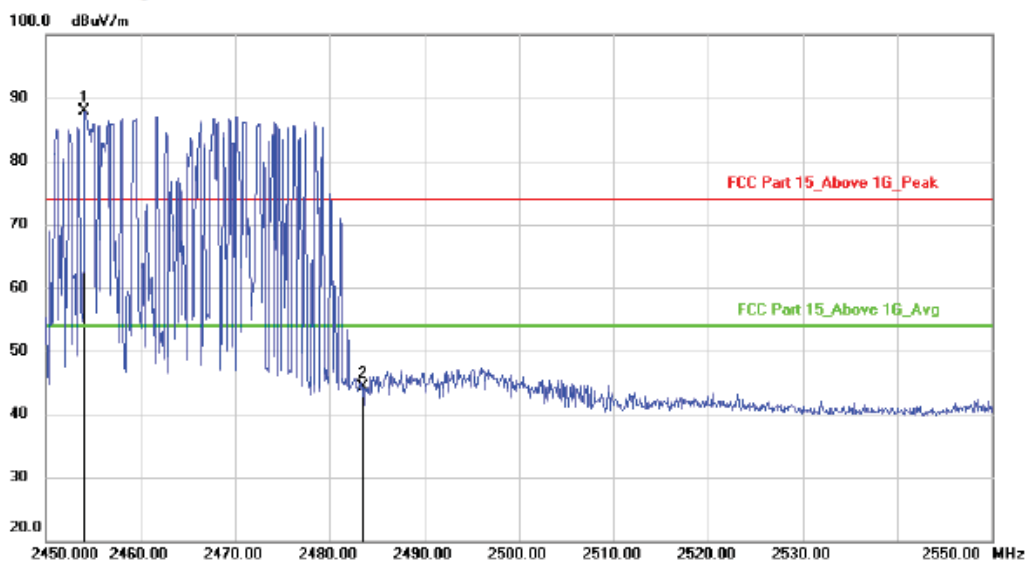
Polarization: Horizontal

Test Mode: GFSK -High



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1	*	2480.200	96.25	-3.38	92.87	74.00	18.87			peak
2		2483.500	54.32	-3.38	50.94	74.00	-23.06			peak

hopping-off

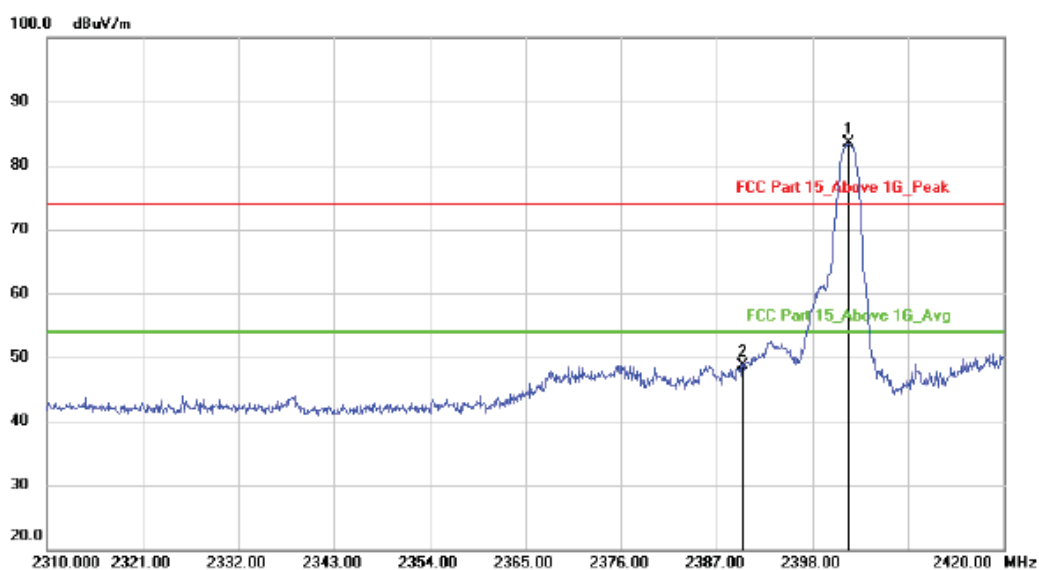


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1	*	2454.100	91.28	-3.39	87.89	74.00	13.89			peak
2		2483.500	47.67	-3.38	44.29	74.00	-29.71			peak

hopping-on

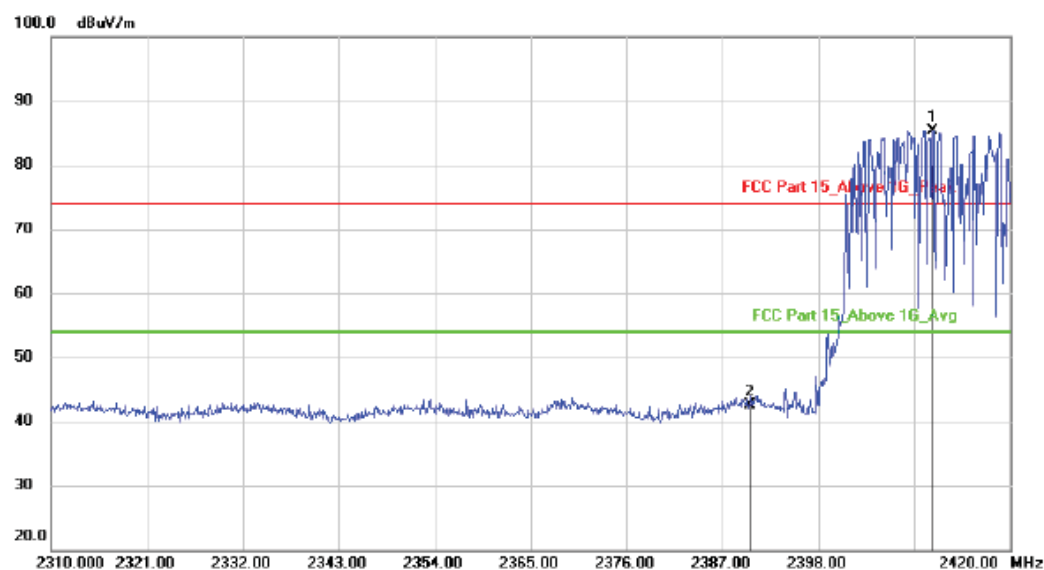
Polarization: Vertical

Test Mode: GFSK -Low



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1	*	2402.180	87.01	-3.41	83.60	74.00	9.60			peak
2		2390.000	52.01	-3.40	48.61	74.00	-25.39			peak

hopping-off

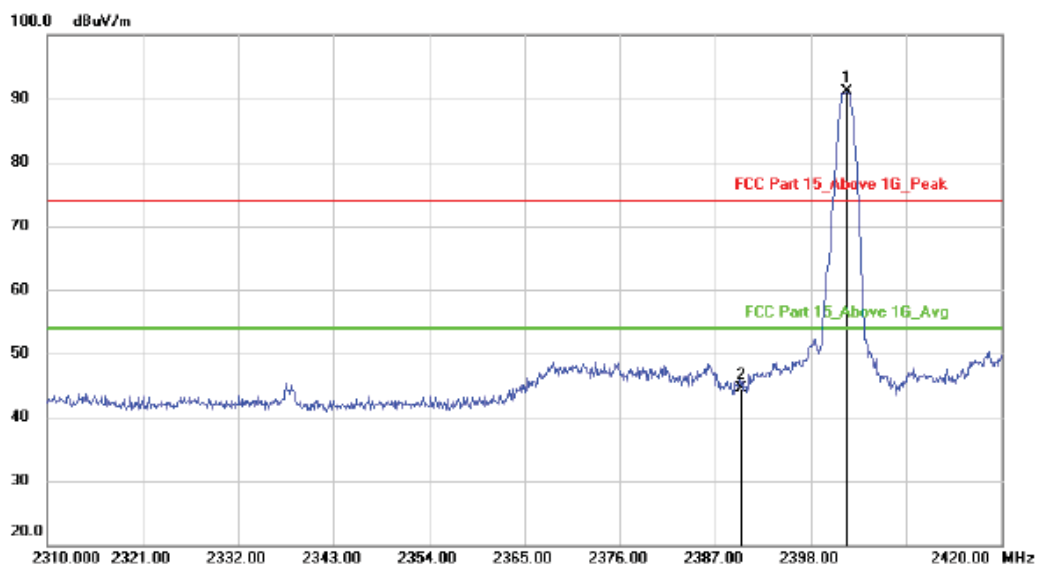


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1	*	2411.090	88.74	-3.40	85.34	74.00	11.34			peak
2		2390.000	45.97	-3.40	42.57	74.00	-31.43			peak

hopping-on

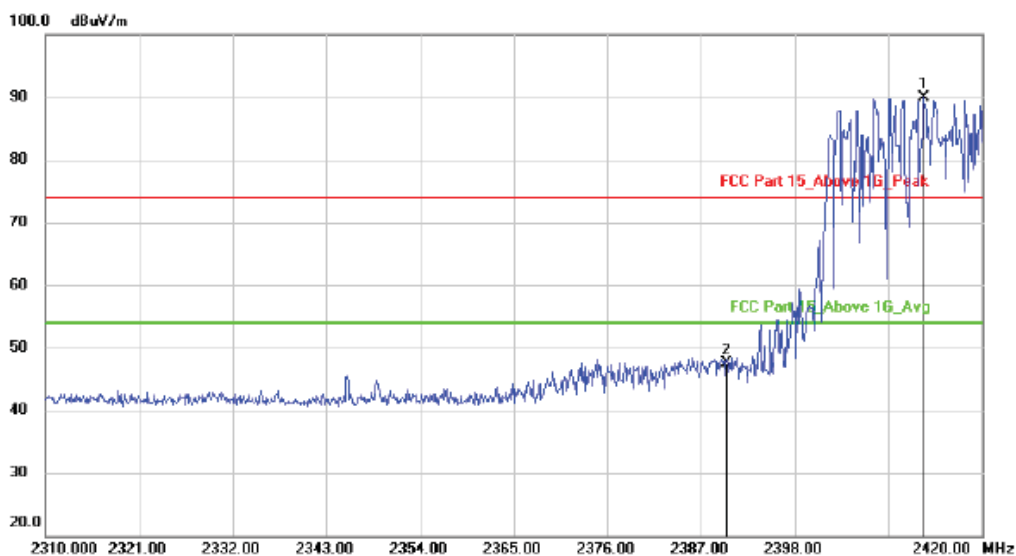
Polarization: Horizontal

Test Mode: GFSK -Low



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1	*	2402.180	94.43	-3.41	91.02	74.00	17.02	peak		
2		2390.000	47.95	-3.40	44.55	74.00	-29.45	peak		

hopping-off

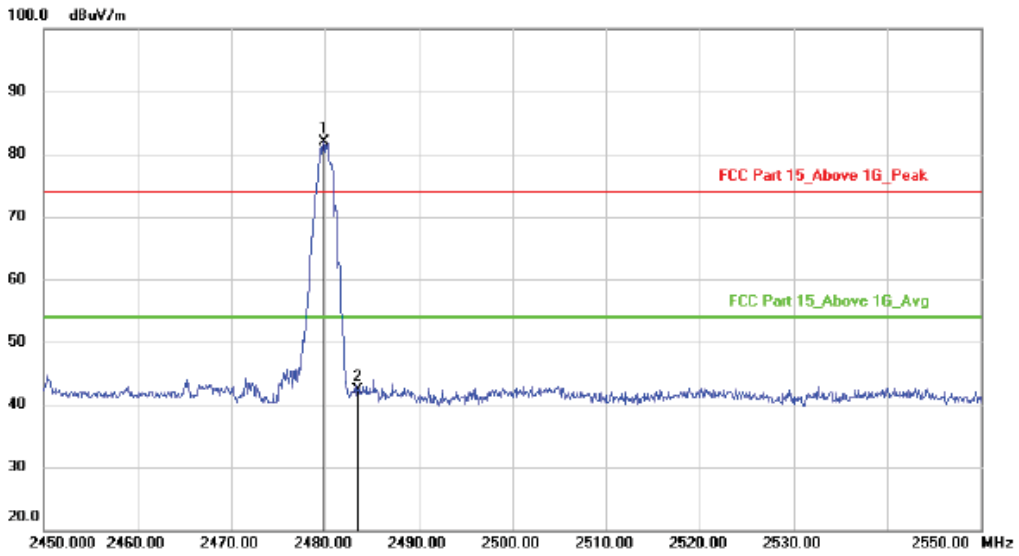


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1	*	2413.180	93.32	-3.41	89.91	74.00	15.91	peak		
2		2390.000	50.96	-3.40	47.56	74.00	-26.44	peak		

hopping-on

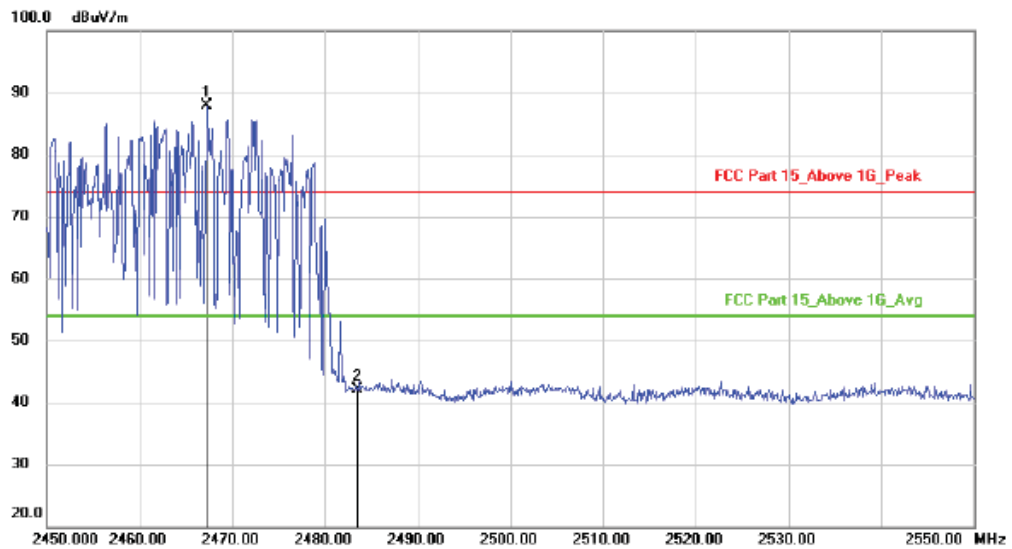
Polarization: Vertical

Test Mode: $\pi/4$ DQPSK- High



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1	*	2479.900	85.19	-3.38	81.81	74.00	7.81			peak
2		2483.500	45.71	-3.38	42.33	74.00	-31.67			peak

hopping-off

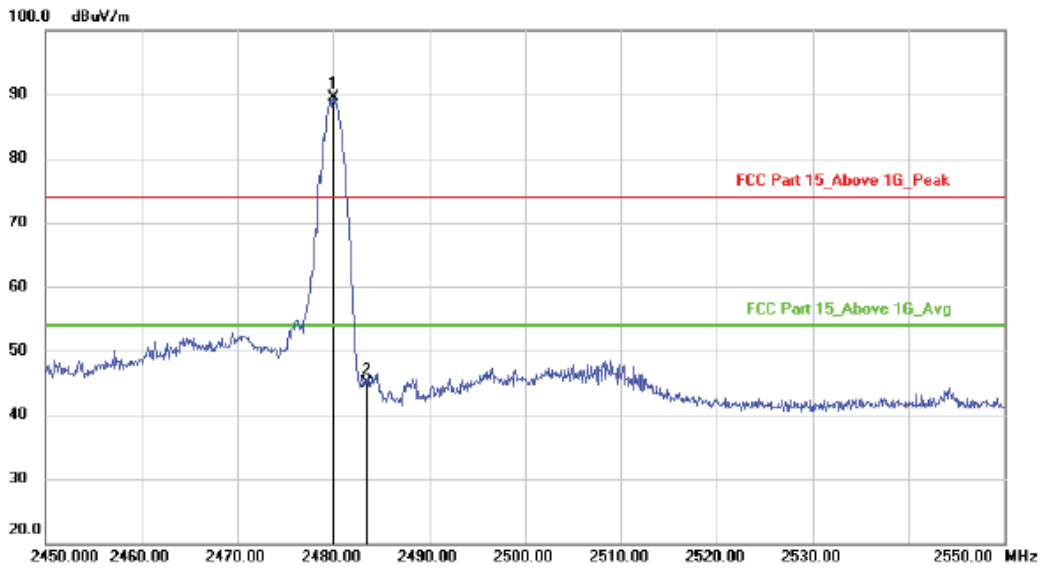


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1	*	2467.300	91.23	-3.39	87.84	74.00	13.84			peak
2		2483.500	45.42	-3.38	42.04	74.00	-31.96			peak

hopping-on

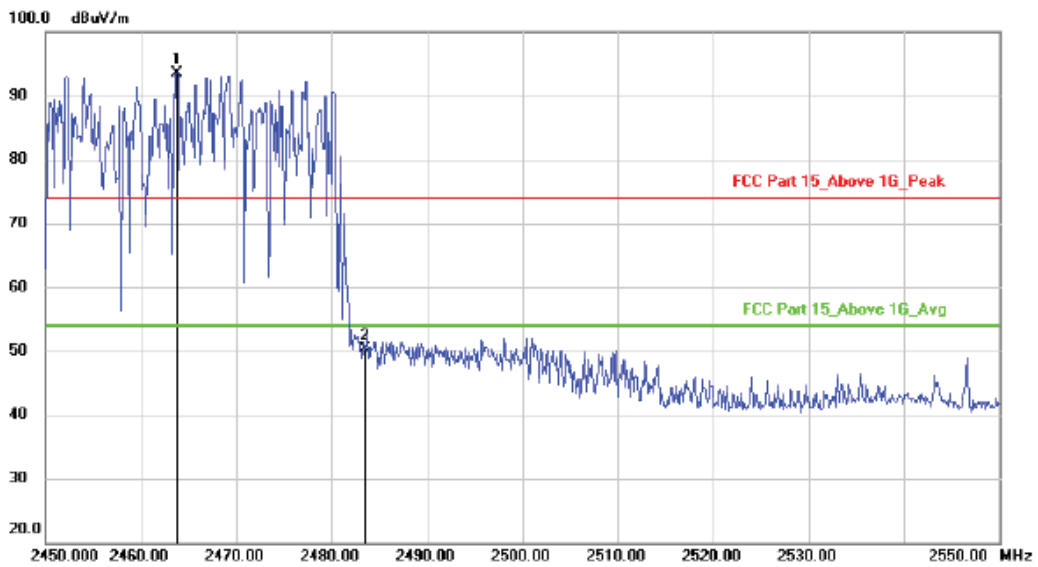
Polarization: Horizontal

Test Mode: $\pi/4$ DQPSK- High



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Antenna Height	Table Degree
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree
1	*	2480.000	92.82	-3.38	89.44	74.00	15.44	peak	
2		2483.500	48.36	-3.38	44.98	74.00	-29.02	peak	

hopping-off

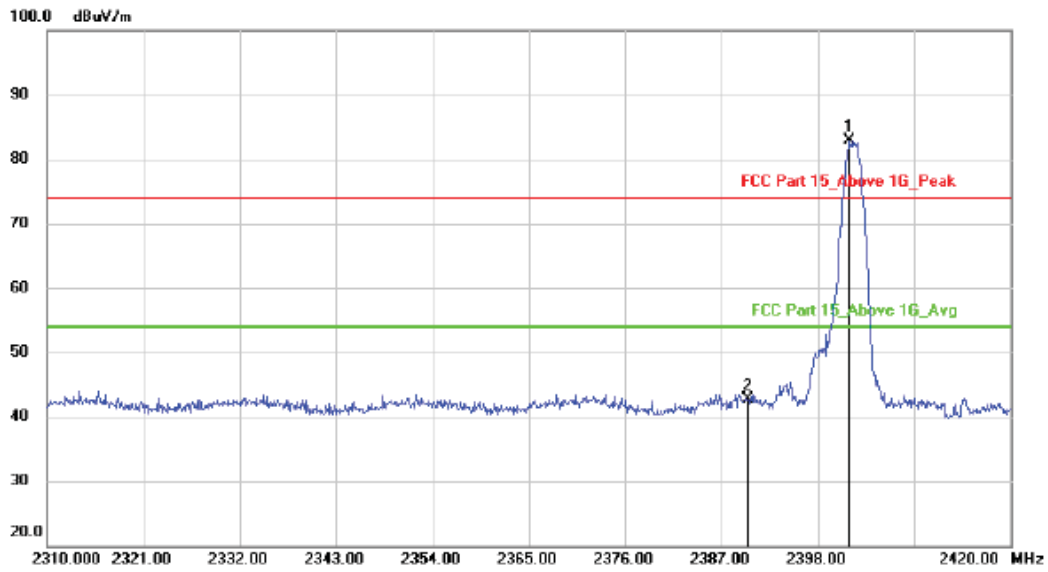


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Antenna Height	Table Degree
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree
1	*	2463.800	96.90	-3.40	93.50	74.00	19.50	peak	
2		2483.500	53.74	-3.38	50.36	74.00	-23.64	peak	

hopping-on

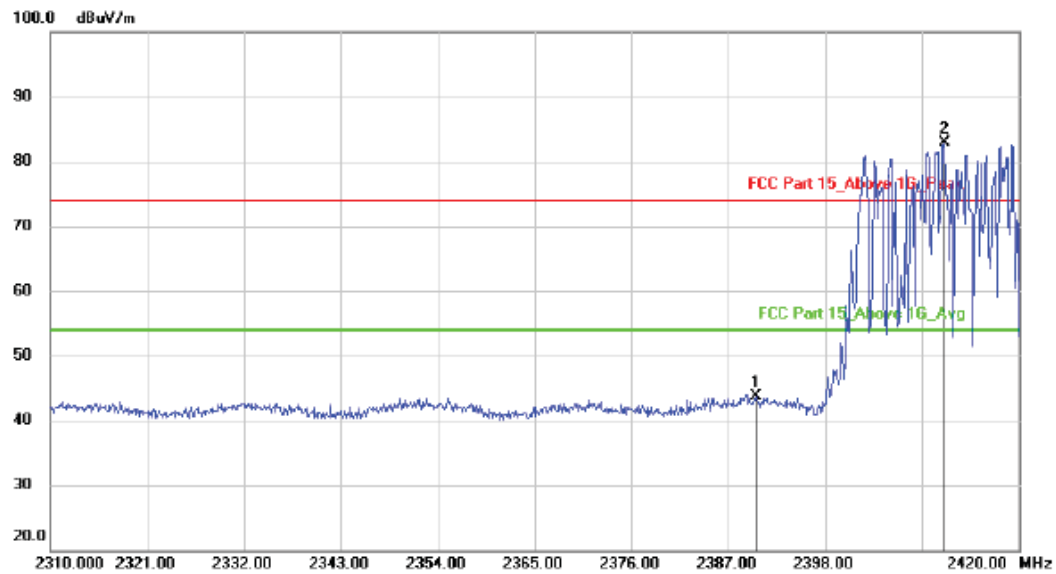
Polarization: Vertical

Test Mode: $\pi/4$ DQPSK -Low



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Antenna Height cm	Table Degree	Comment
1	*	2401.630	86.24	-3.41	82.83	74.00	8.83	peak			
2		2390.000	46.11	-3.40	42.71	74.00	-31.29	peak			

hopping-off



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Antenna Height cm	Table Degree	Comment
1		2390.000	47.07	-3.40	43.67	74.00	-30.33	peak			
2	*	2411.530	86.29	-3.40	82.89	74.00	8.89	peak			

hopping-on

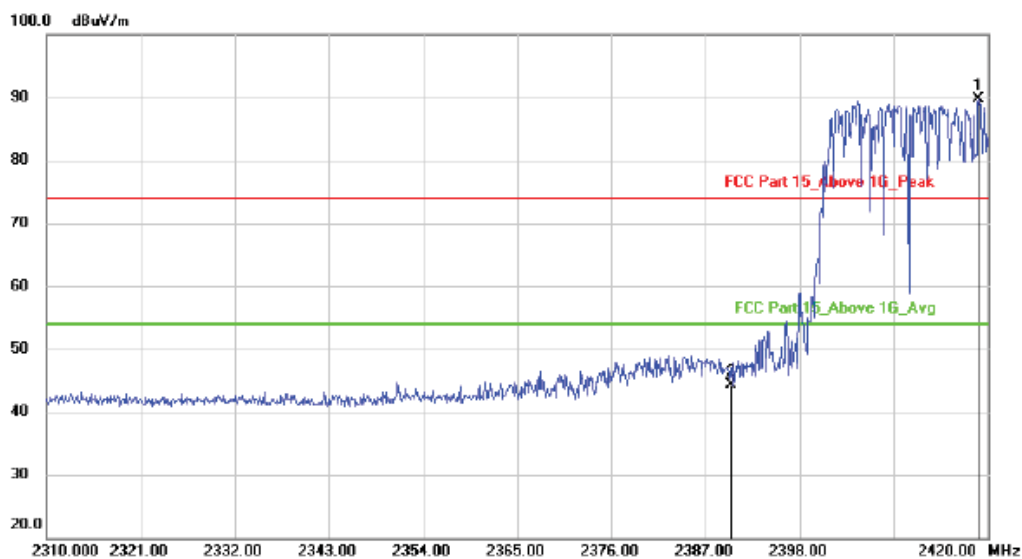
Polarization: Horizontal

Test Mode: $\pi/4$ DQPSK -Low



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1	*	2402.180	94.42	-3.41	91.01	74.00	17.01	peak		
2		2390.000	50.68	-3.40	47.28	74.00	-26.72	peak		

hopping-off

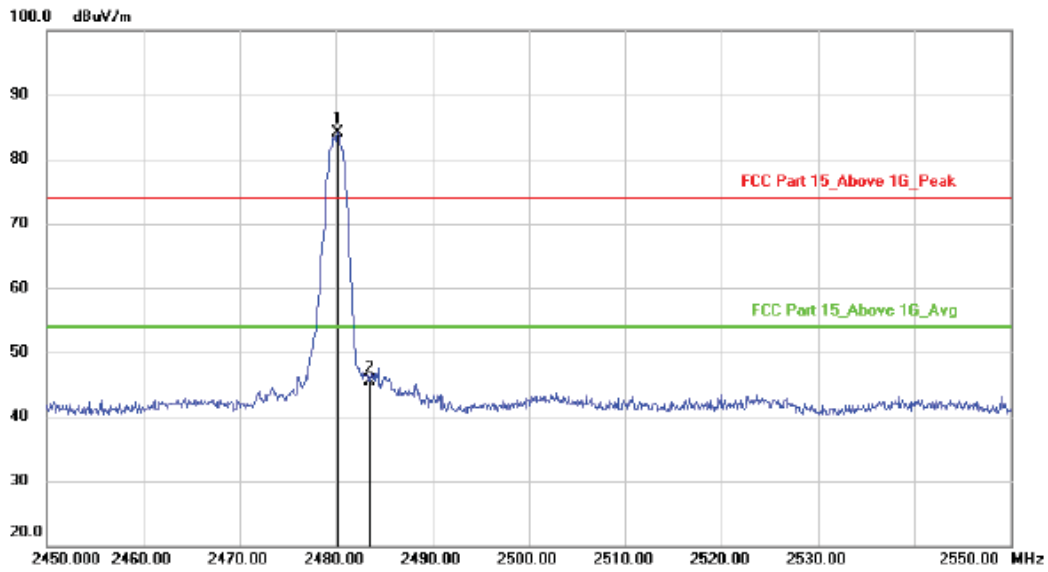


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1	*	2418.900	93.09	-3.41	89.68	74.00	15.68	peak		
2		2390.000	47.79	-3.40	44.39	74.00	-29.61	peak		

hopping-on

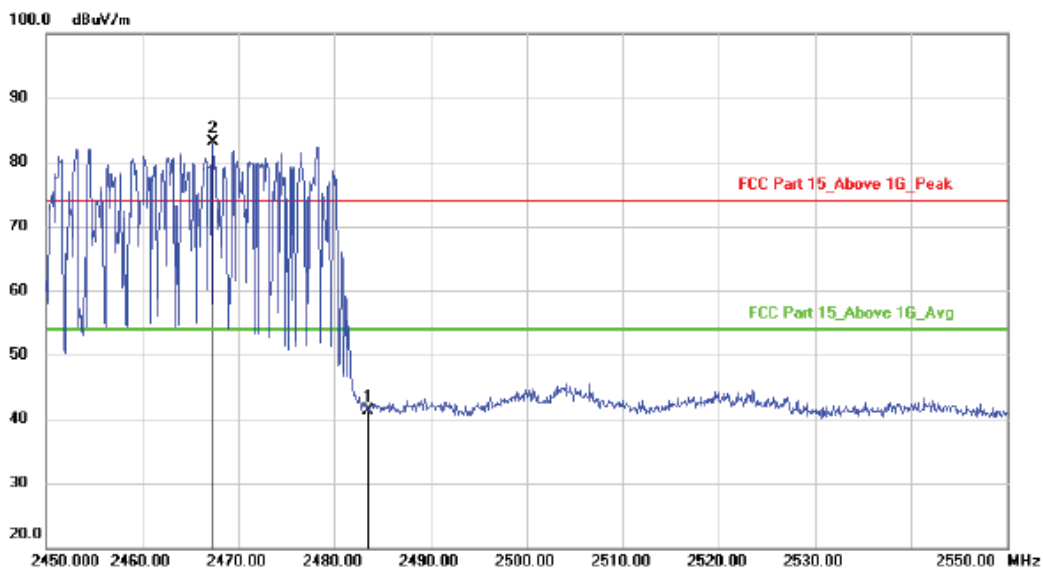
Polarization: Vertical

Test Mode: 8DPSK- High



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1	*	2480.200	87.40	-3.38	84.02	74.00	10.02			peak
2		2483.500	48.86	-3.38	45.48	74.00	-28.52			peak

hopping-off

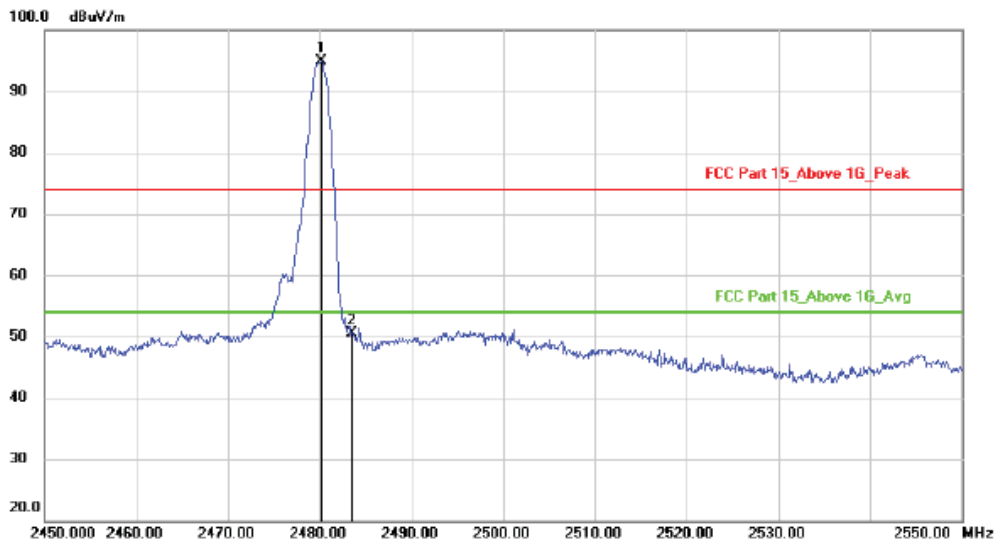


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		2483.500	44.76	-3.38	41.38	74.00	-32.62			peak
2	*	2467.400	86.59	-3.39	83.20	74.00	9.20			peak

hopping-on

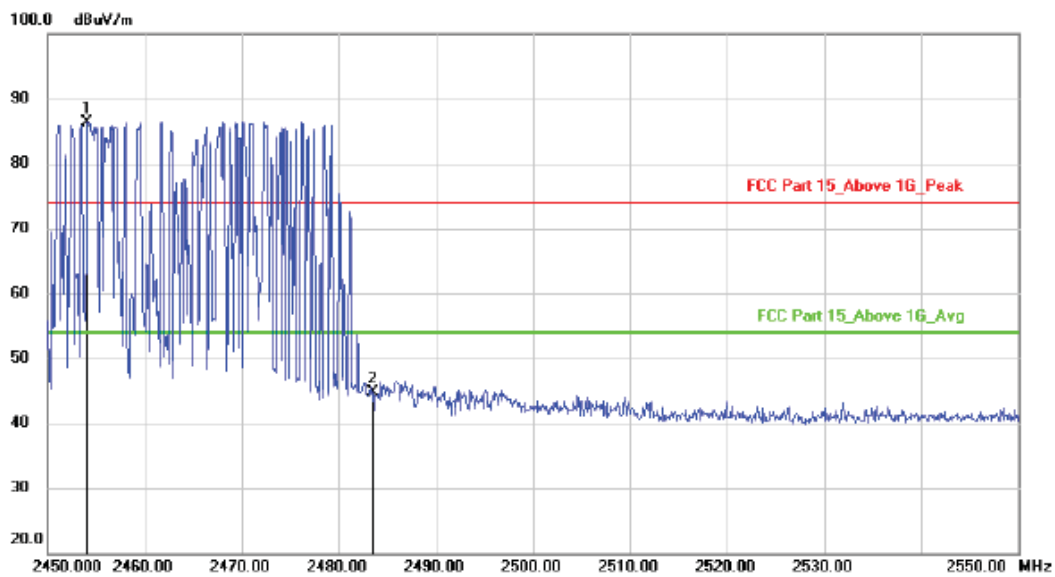
Polarization: Horizontal

Test Mode: 8DPSK - High



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1	*	2480.200	98.25	-3.38	94.87	74.00	20.87			peak
2		2483.500	53.82	-3.38	50.44	74.00	-23.56			peak

hopping-off

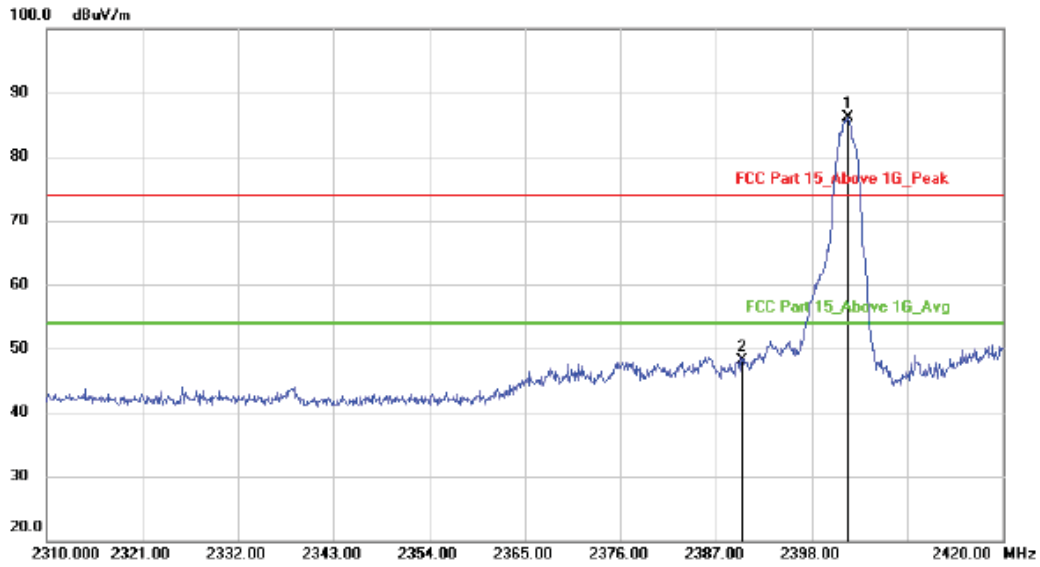


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1	*	2454.100	89.78	-3.39	86.39	74.00	12.39			peak
2		2483.500	48.17	-3.38	44.79	74.00	-29.21			peak

hopping-on

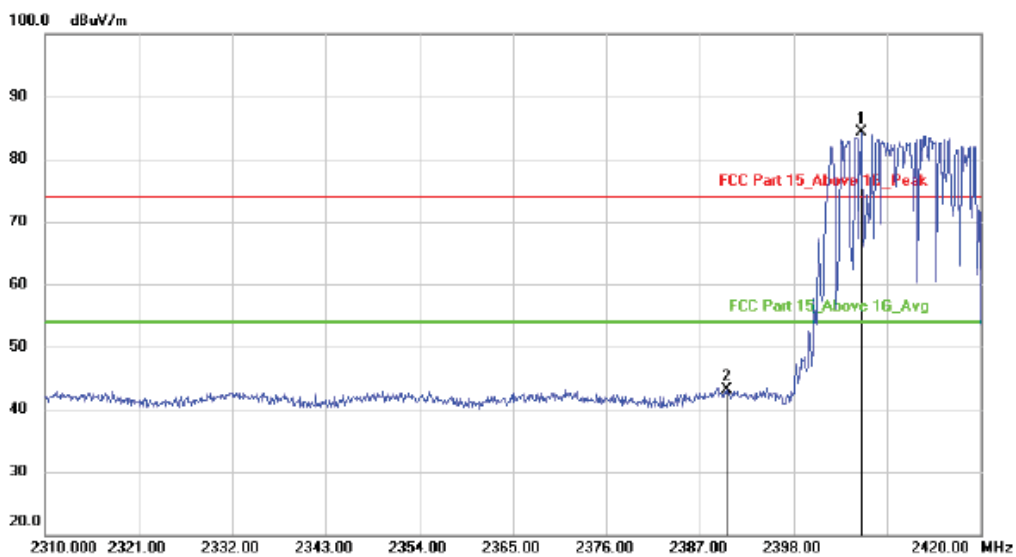
Polarization: Vertical

Test Mode: 8DPSK- Low



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1	*	2402.180	89.51	-3.41	86.10	74.00	12.10			peak
2		2390.000	51.51	-3.40	48.11	74.00	-25.89			peak

hopping-off

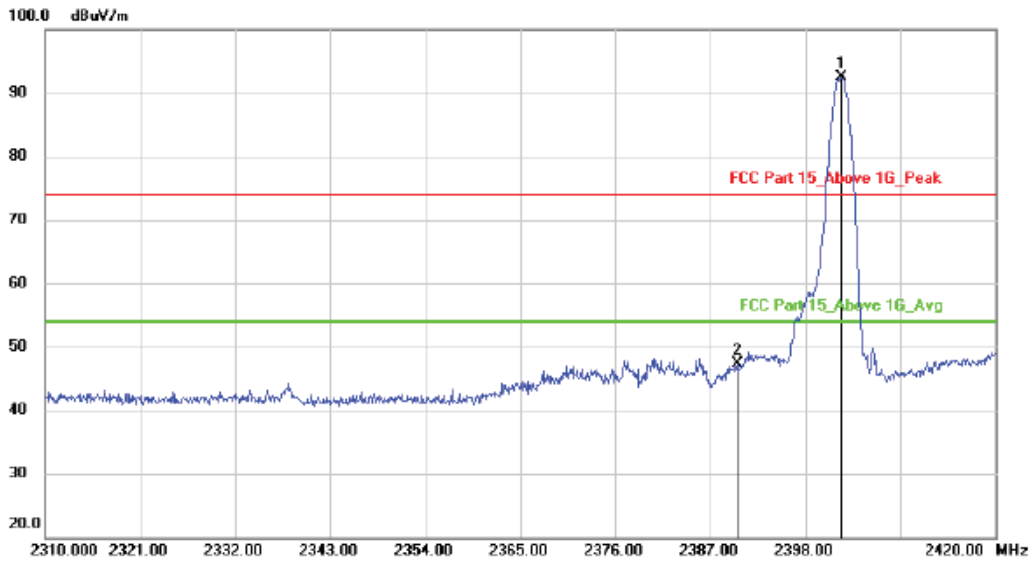


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1	*	2406.030	87.66	-3.41	84.25	74.00	10.25			peak
2		2390.000	46.57	-3.40	43.17	74.00	-30.83			peak

hopping-on

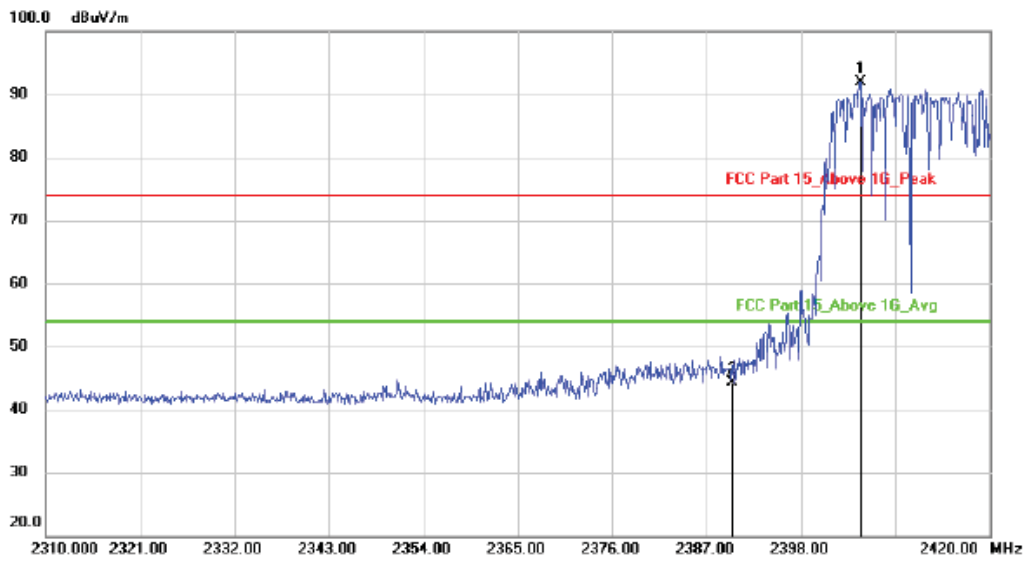
Polarization: Horizontal

Test Mode: 8DPSK -Low



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1	*	2402.180	95.92	-3.41	92.51	74.00	18.51			peak
2		2390.000	50.68	-3.40	47.28	74.00	-26.72			peak

hopping-off



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1	*	2404.930	95.26	-3.41	91.85	74.00	17.85			peak
2		2390.000	47.79	-3.40	44.39	74.00	-29.61			peak

hopping-on

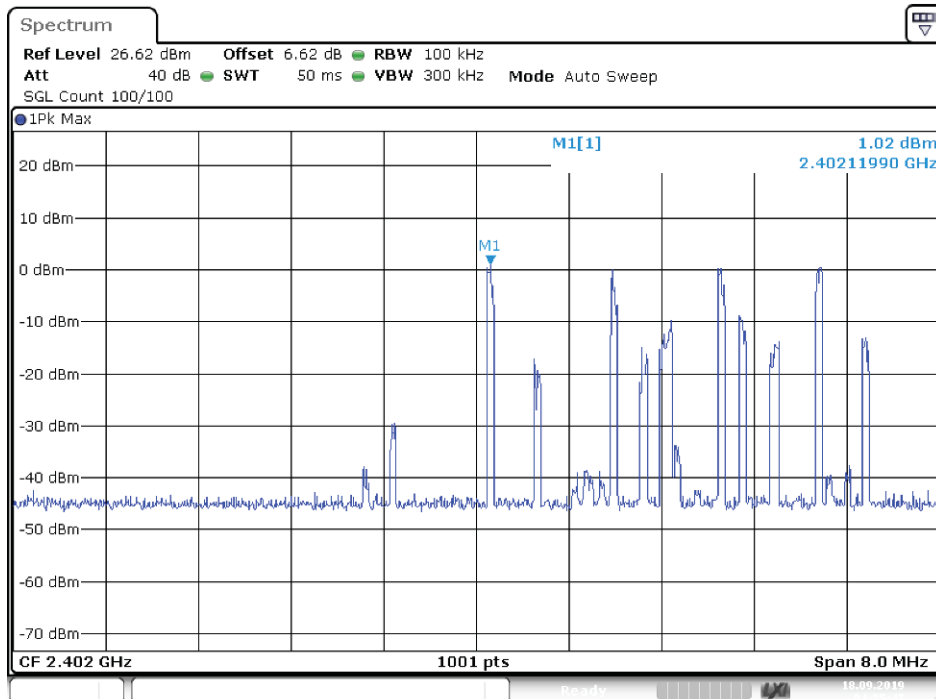
Note: 1. *:Maximum data; x:Over limit; !:over margin.

2.Measurement=Reading Level+Correct Factor; Correct Factor=Antenna Factor+Cable Loss.

Conducted Method

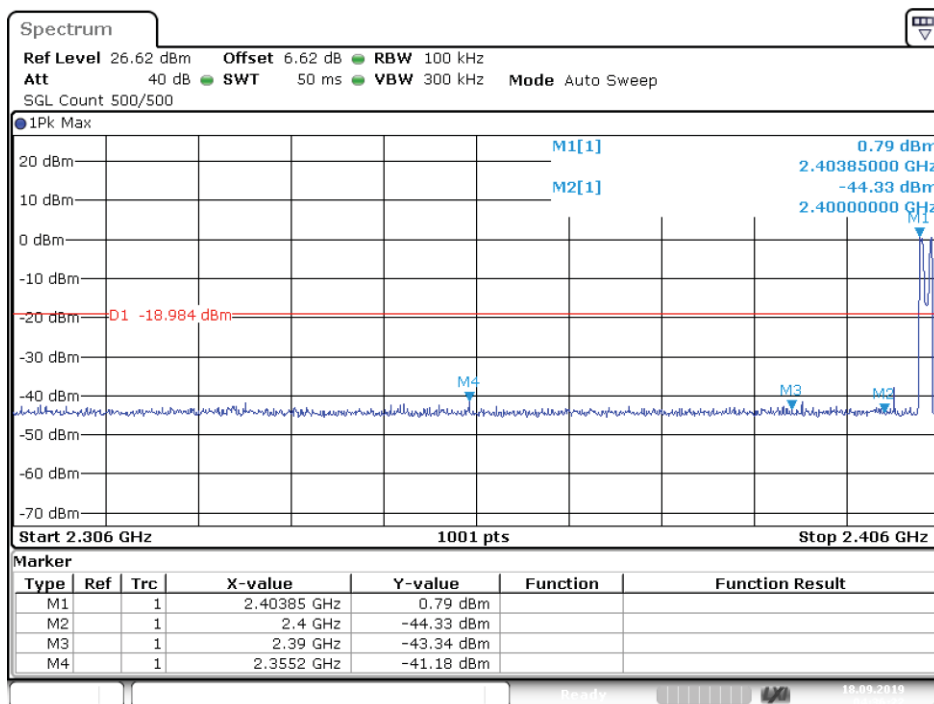
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant 1	Hopping	-42.19603055	-20	Pass
NVNT	1-DH1	2402	Ant 1	No-Hopping	-44.11739498138	-20	Pass
NVNT	1-DH1	2480	Ant 1	Hopping	-39.75704831123	-20	Pass
NVNT	1-DH1	2480	Ant 1	No-Hopping	-40.93363424778	-20	Pass
NVNT	2-DH1	2402	Ant 1	No-Hopping	-43.50680646896	-20	Pass
NVNT	2-DH1	2480	Ant 1	Hopping	-39.30481983185	-20	Pass
NVNT	2-DH1	2480	Ant 1	No-Hopping	-40.09018918514	-20	Pass
NVNT	3-DH1	2402	Ant 1	Hopping	-42.88788355827	-20	Pass
NVNT	3-DH1	2402	Ant 1	No-Hopping	-44.30408707619	-20	Pass
NVNT	3-DH1	2480	Ant 1	Hopping	-39.16190190315	-20	Pass
NVNT	3-DH1	2480	Ant 1	No-Hopping	-41.07470368385	-20	Pass

Band Edge NVNT 1-DH1 2402MHz Ant1 Hopping Ref



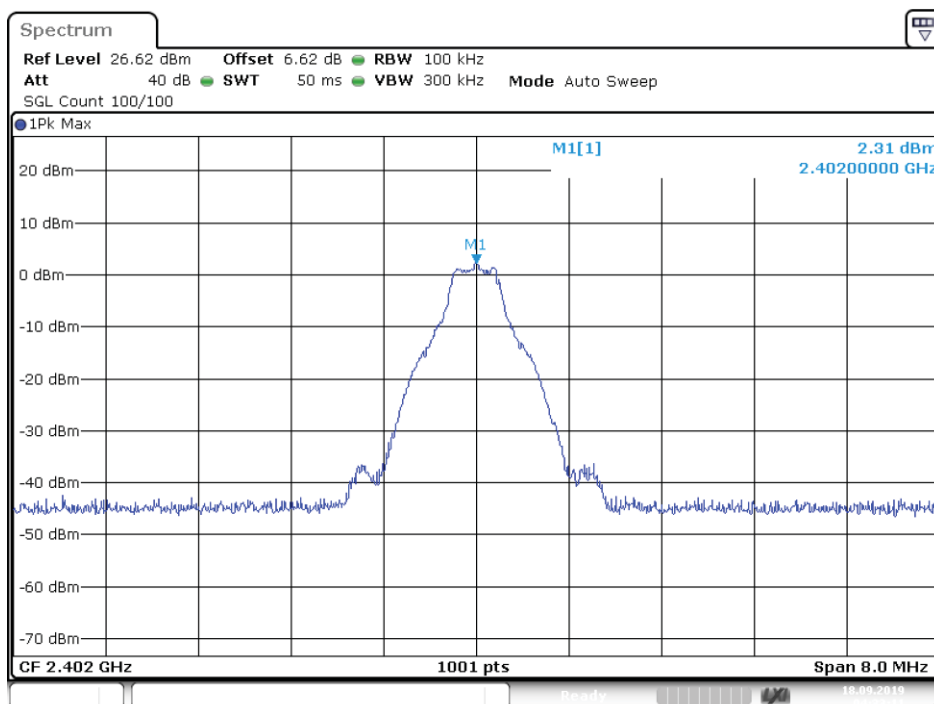
Date: 18.SEP.2019 04:35:47

Band Edge NVNT 1-DH1 2402MHz Ant1 Hopping Emission



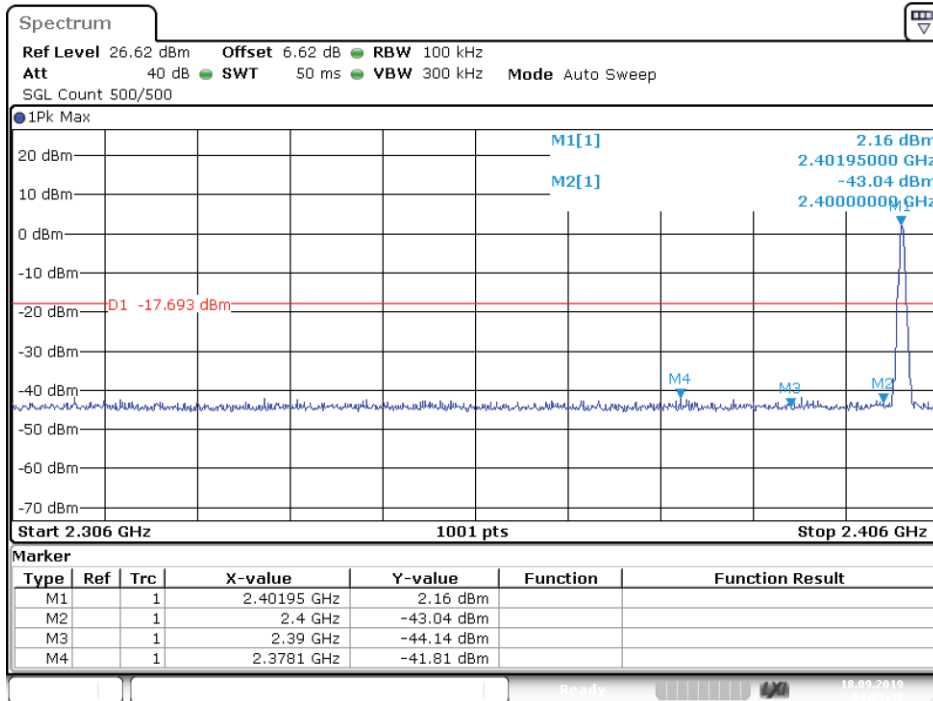
Date: 18.SEP.2019 04:36:22

Band Edge NVNT 1-DH1 2402MHz Ant1 No-Hopping Ref



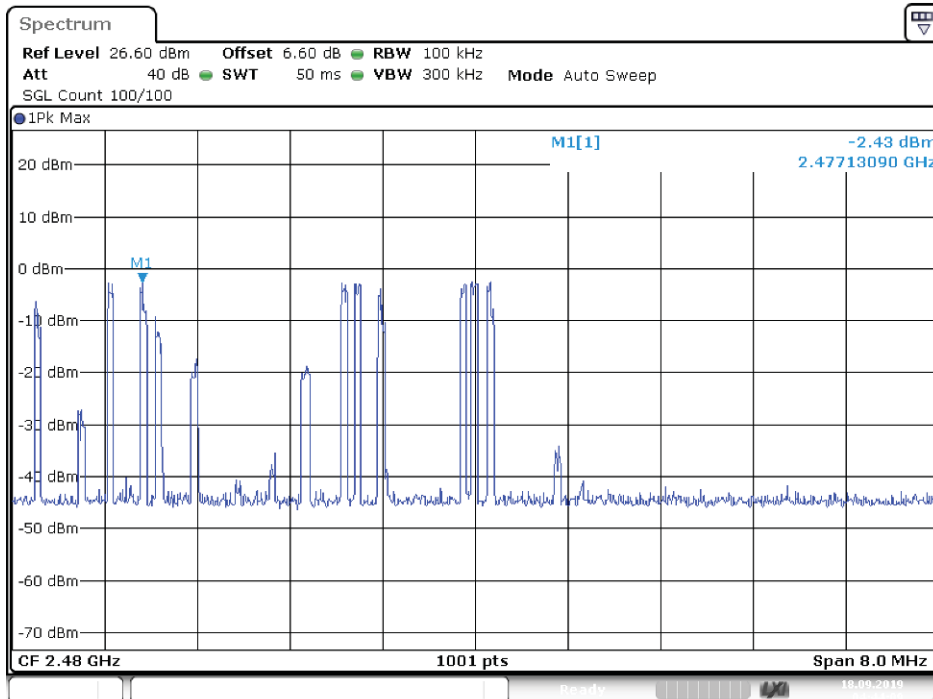
Date: 18.SEP.2019 04:33:11

Band Edge NVNT 1-DH1 2402MHz Ant1 No-Hopping Emission



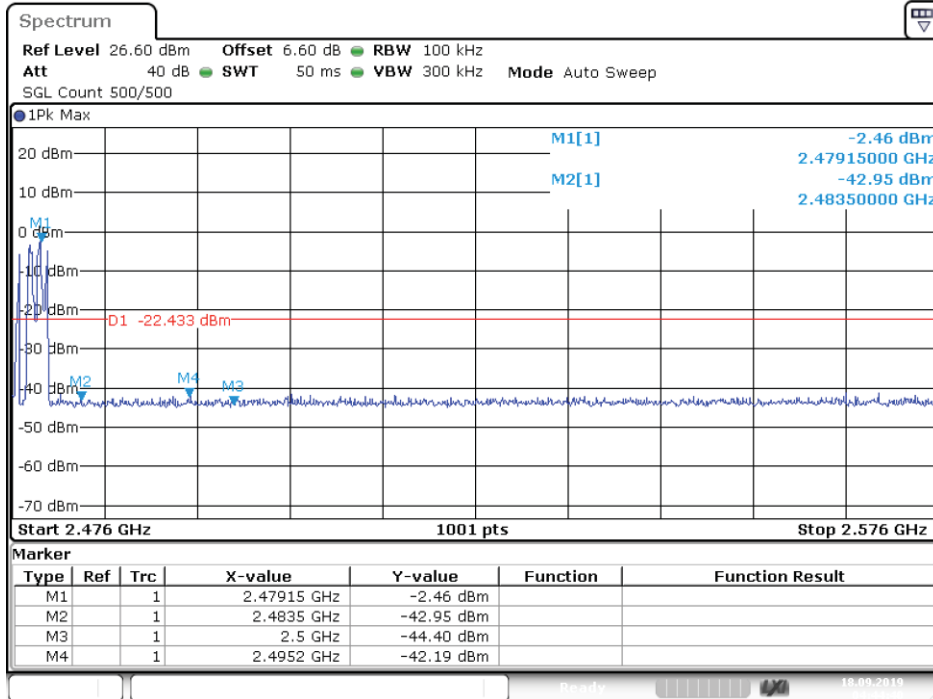
Date: 18.SEP.2019 04:33:45

Band Edge NVNT 1-DH1 2480MHz Ant1 Hopping Ref



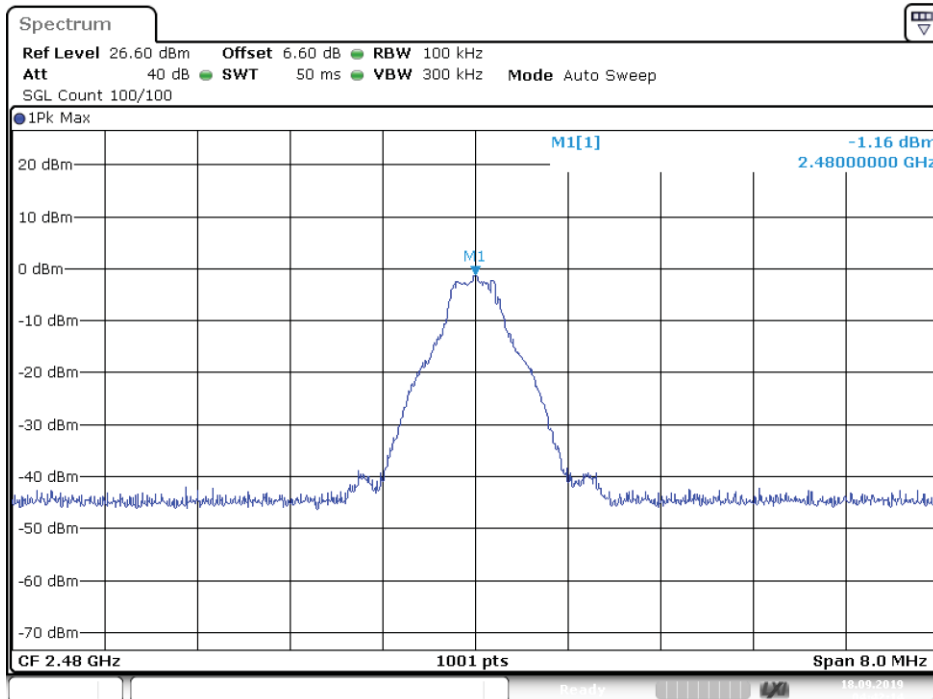
Date: 18.SEP.2019 04:44:08

Band Edge NVNT 1-DH1 2480MHz Ant1 Hopping Emission



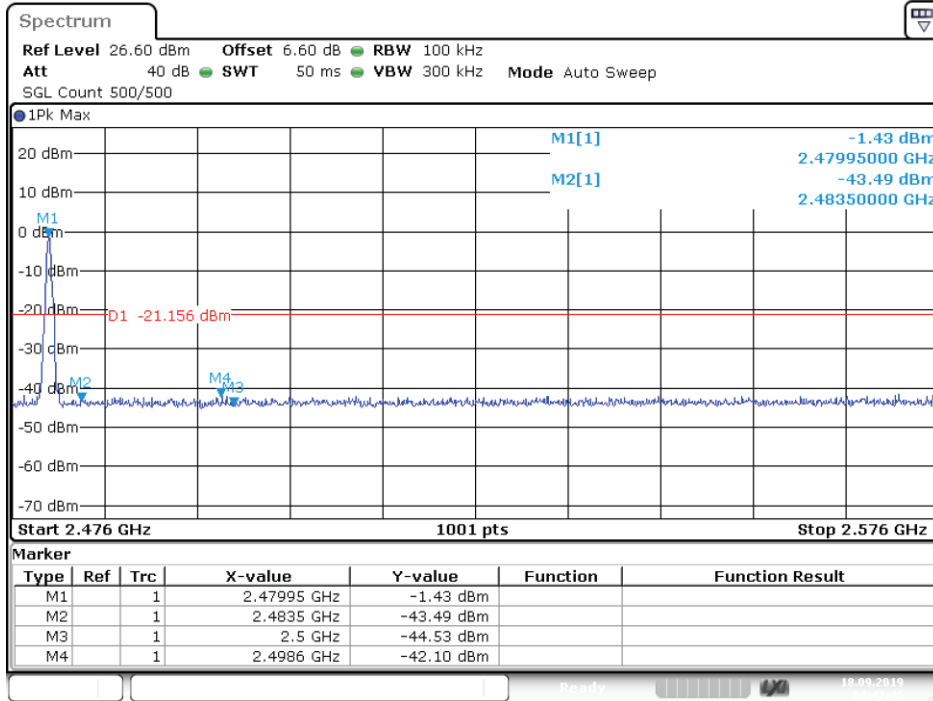
Date: 18.SEP.2019 04:44:40

Band Edge NVNT 1-DH1 2480MHz Ant1 No-Hopping Ref



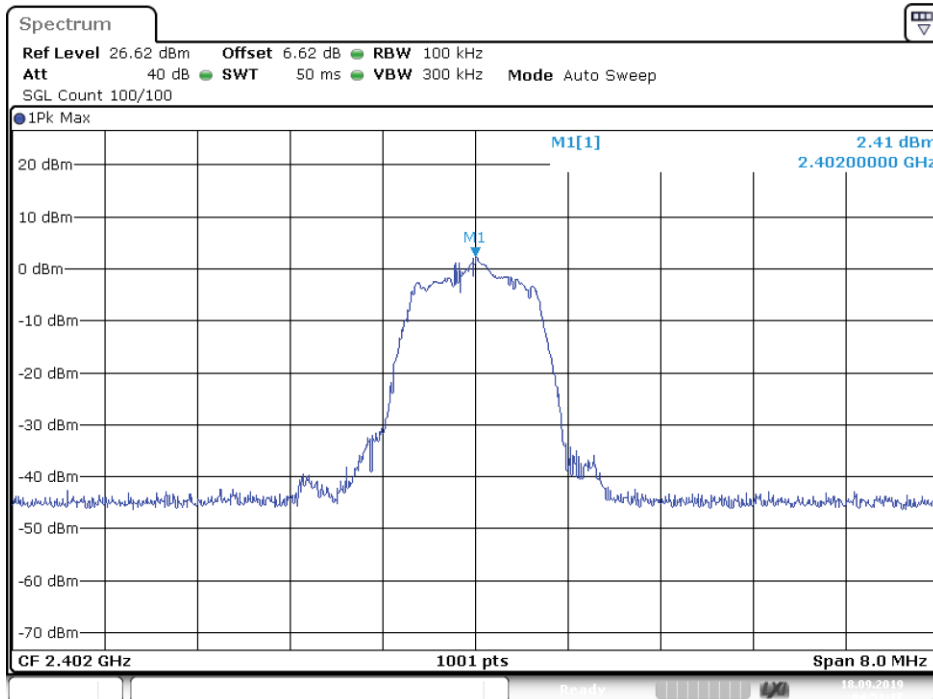
Date: 18.SEP.2019 04:42:14

Band Edge NVNT 1-DH1 2480MHz Ant1 No-Hopping Emission



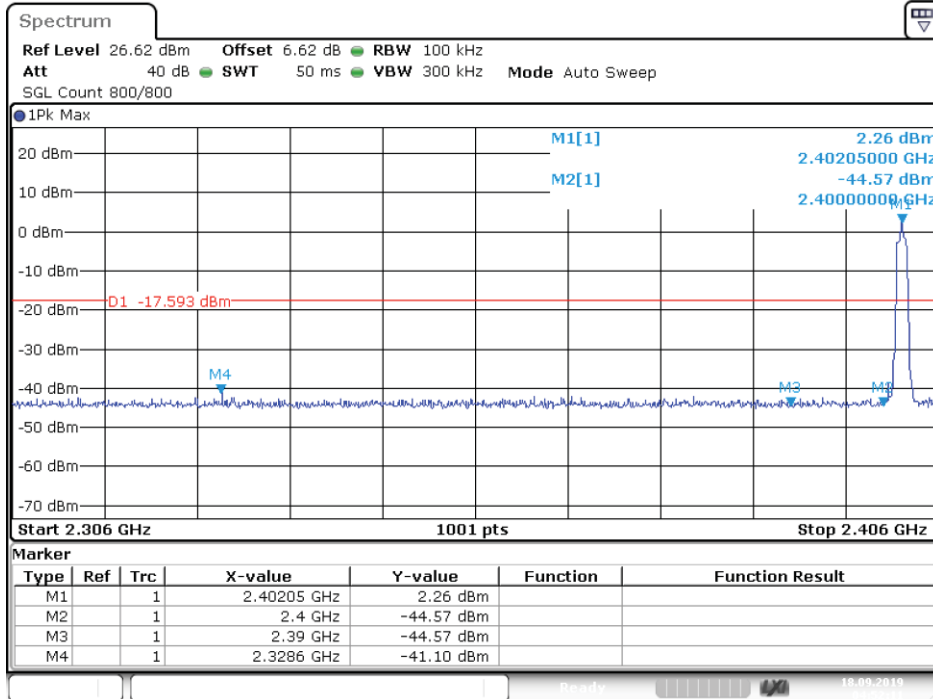
Date: 18.SEP.2019 04:42:45

Band Edge NVNT 2-DH1 2402MHz Ant1 No-Hopping Ref



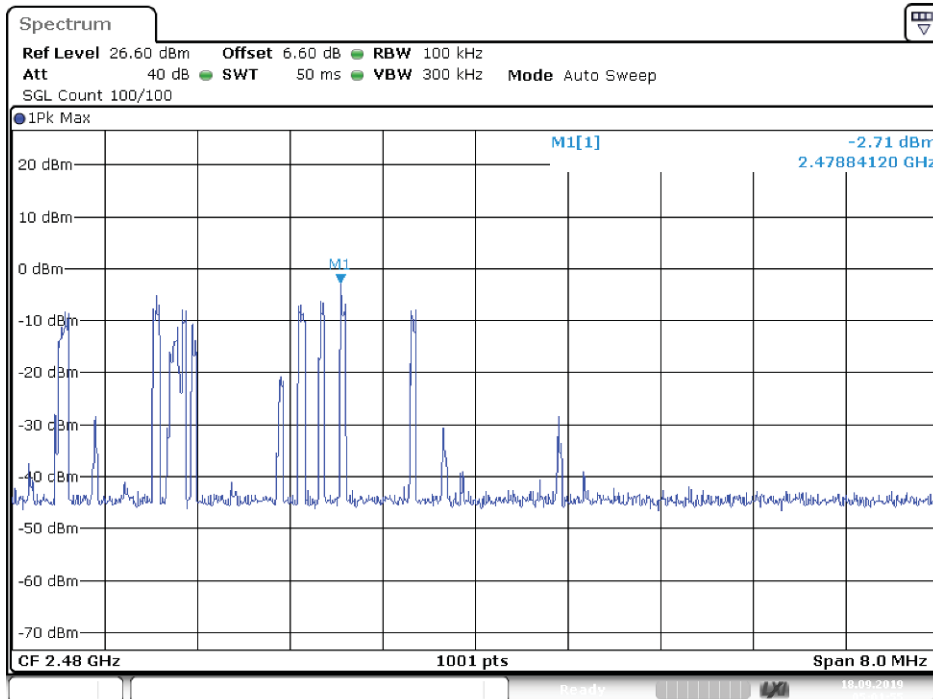
Date: 18.SEP.2019 04:51:17

Band Edge NVNT 2-DH1 2402MHz Ant1 No-Hopping Emission



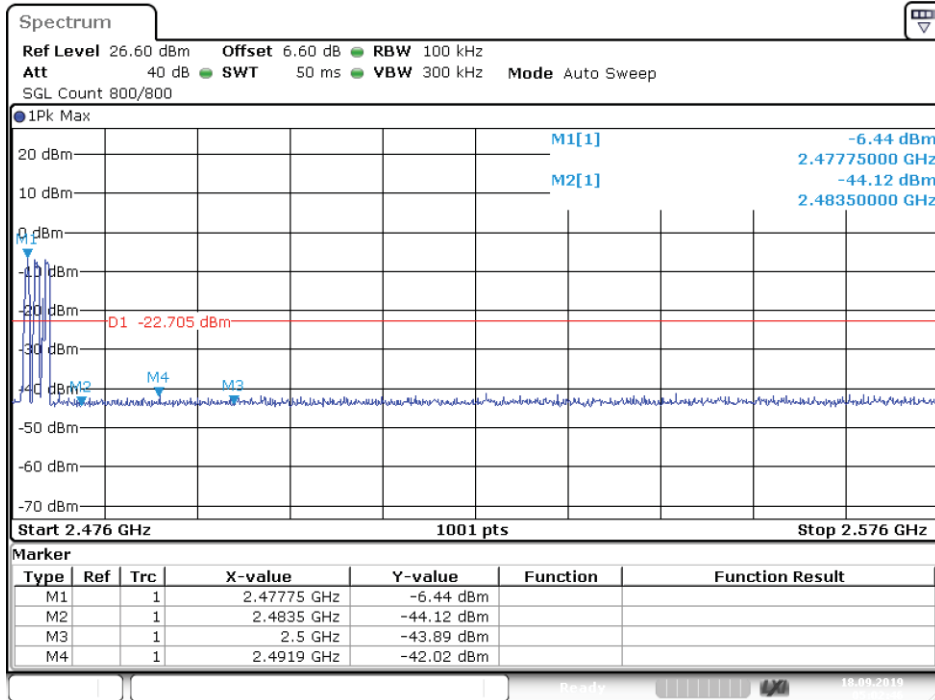
Date: 18.SEP.2019 04:52:11

Band Edge NVNT 2-DH1 2480MHz Ant1 Hopping Ref

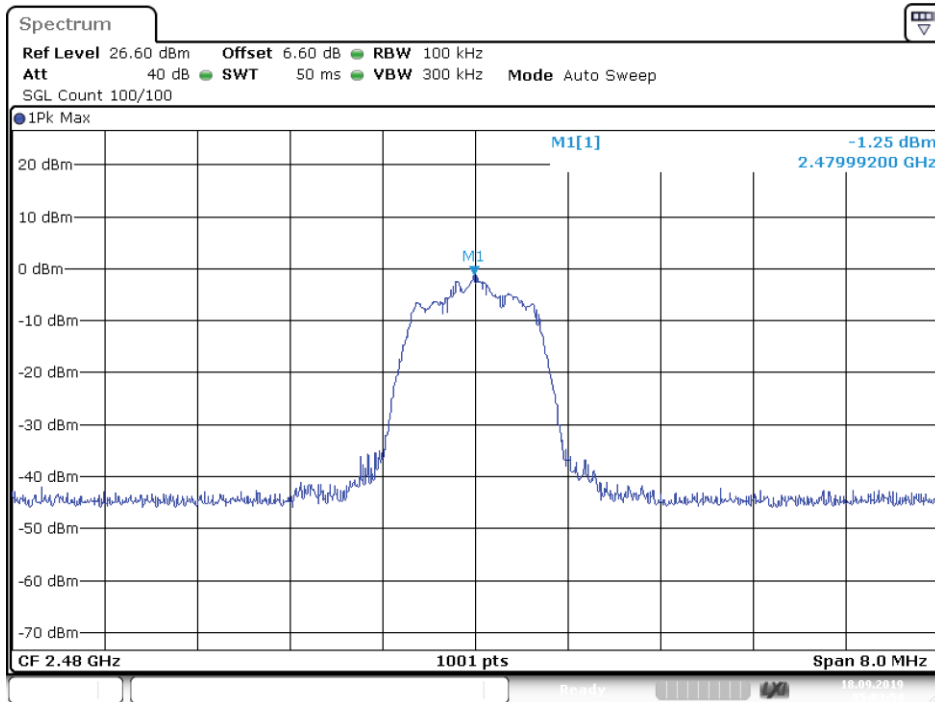


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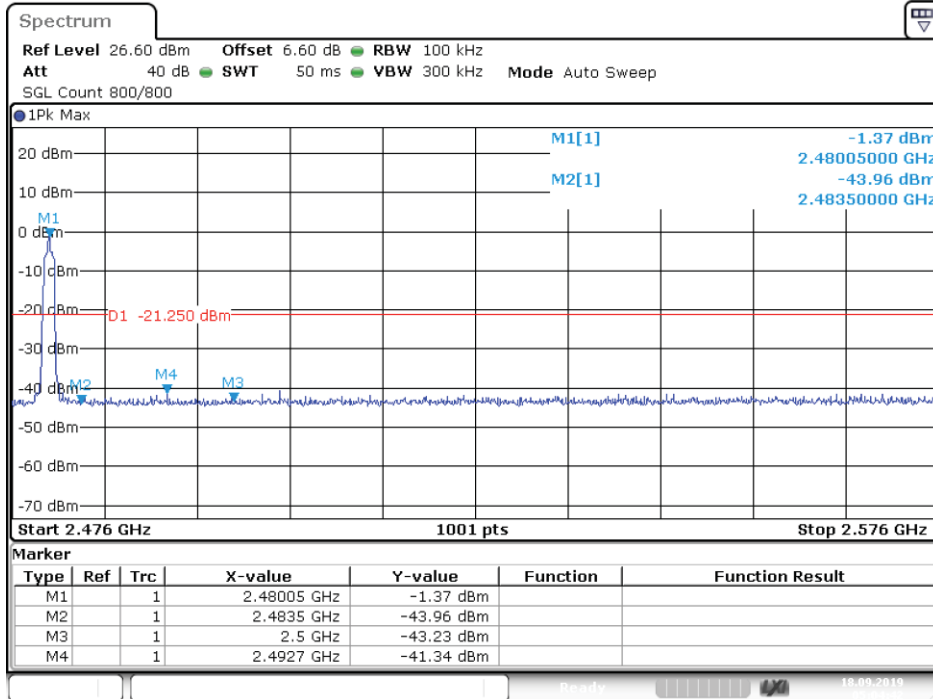
Band Edge NVNT 2-DH1 2480MHz Ant1 Hopping Emission



Band Edge NVNT 2-DH1 2480MHz Ant1 No-Hopping Ref

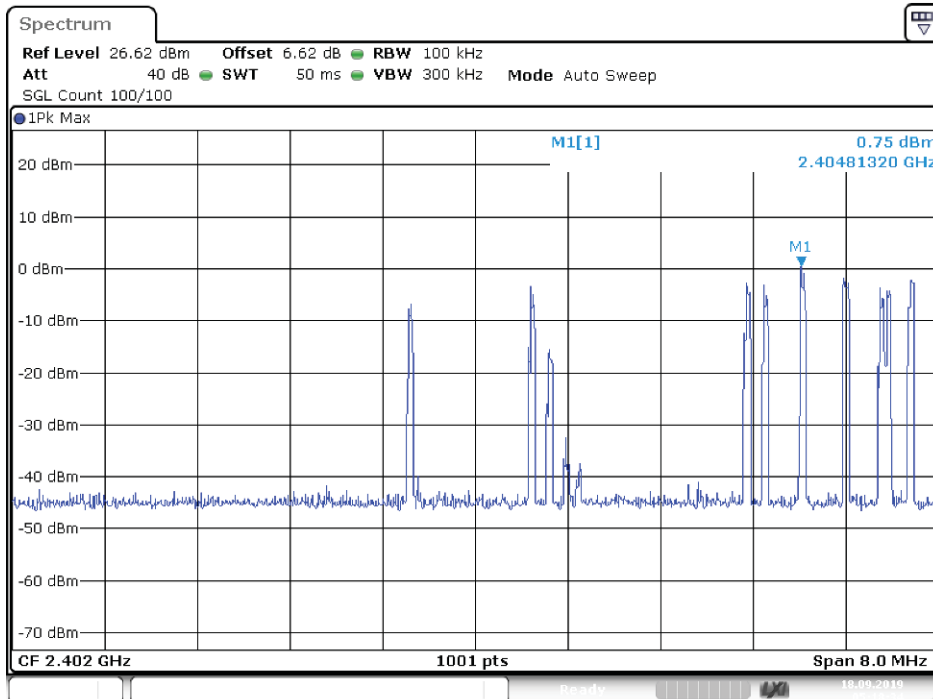


Band Edge NVNT 2-DH1 2480MHz Ant1 No-Hopping Emission



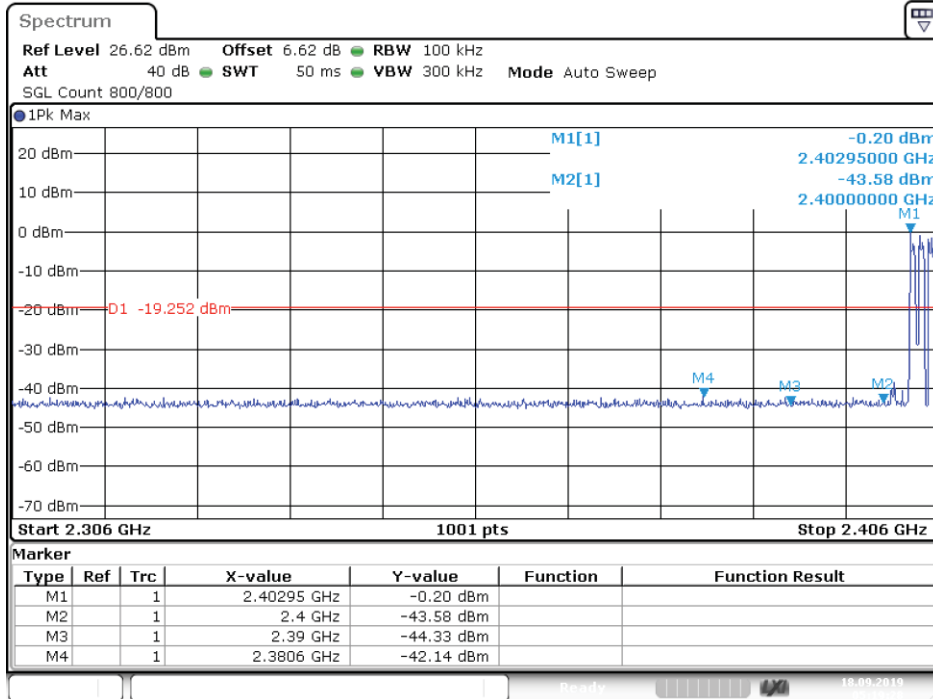
Date: 18.SEP.2019 05:04:42

Band Edge NVNT 3-DH1 2402MHz Ant1 Hopping Ref



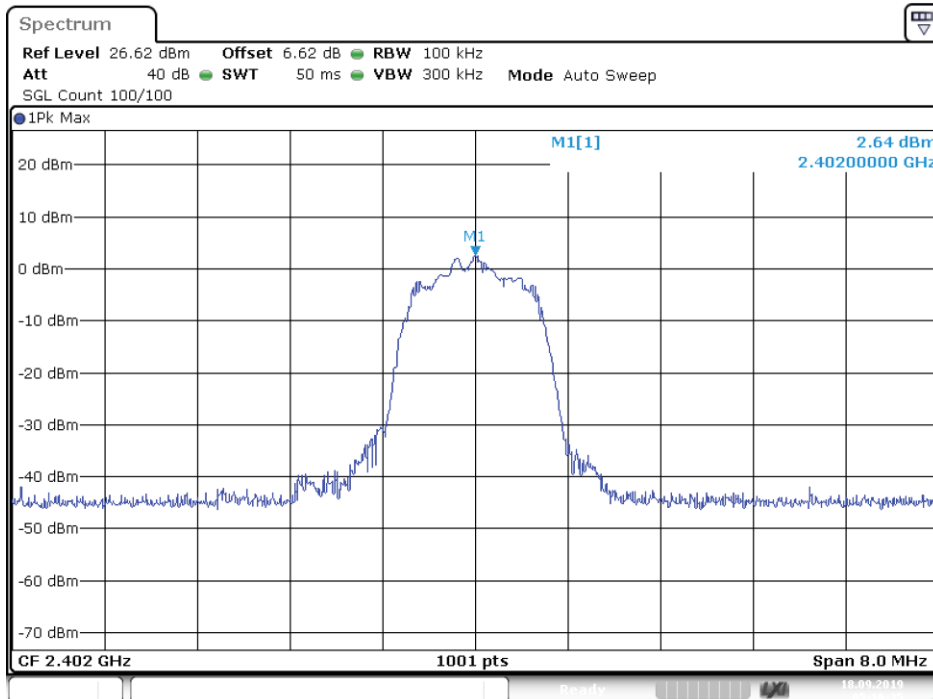
Date: 18.SEP.2019 05:18:34

Band Edge NVNT 3-DH1 2402MHz Ant1 Hopping Emission



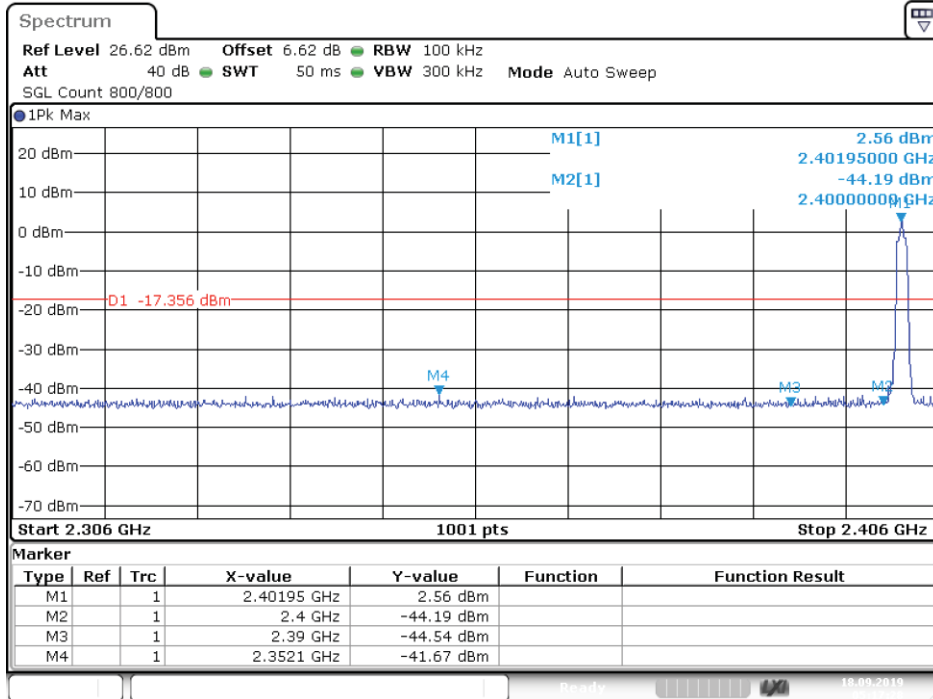
Date: 18.SEP.2019 05:19:28

Band Edge NVNT 3-DH1 2402MHz Ant1 No-Hopping Ref



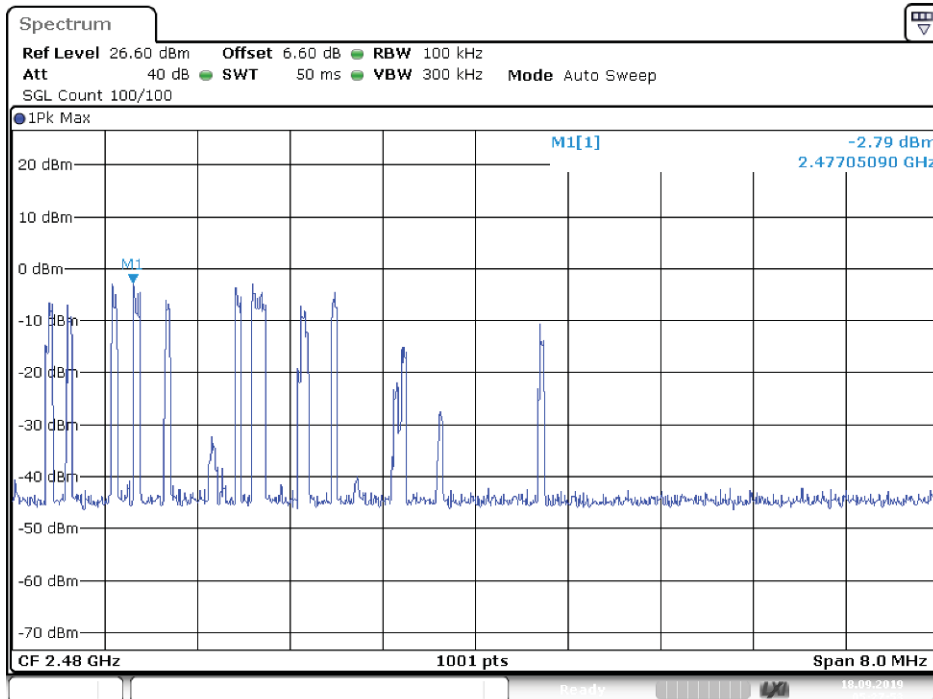
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Band Edge NVNT 3-DH1 2402MHz Ant1 No-Hopping Emission



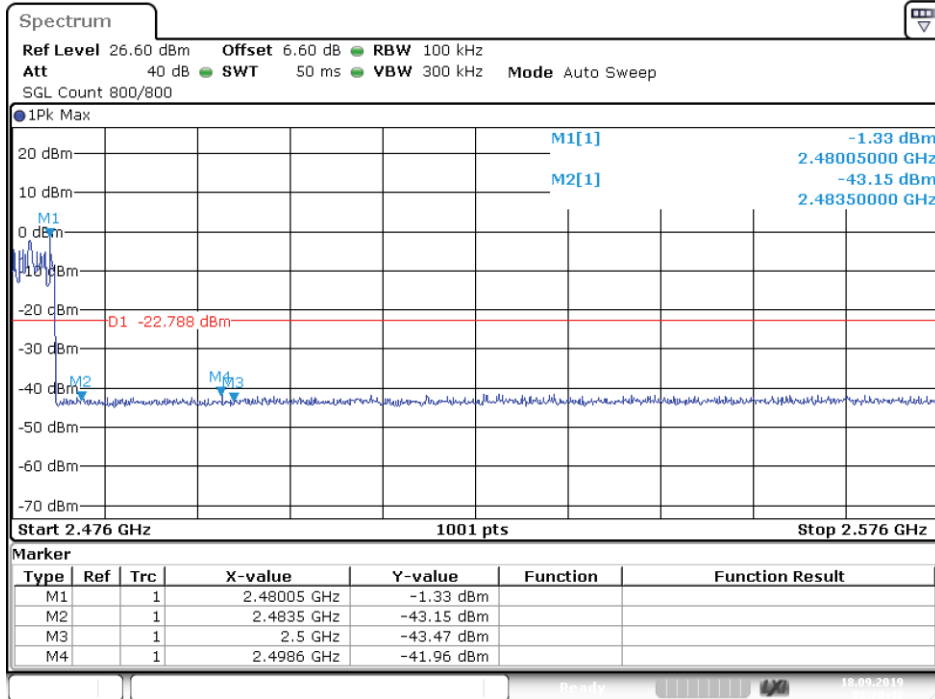
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Band Edge NVNT 3-DH1 2480MHz Ant1 Hopping Ref



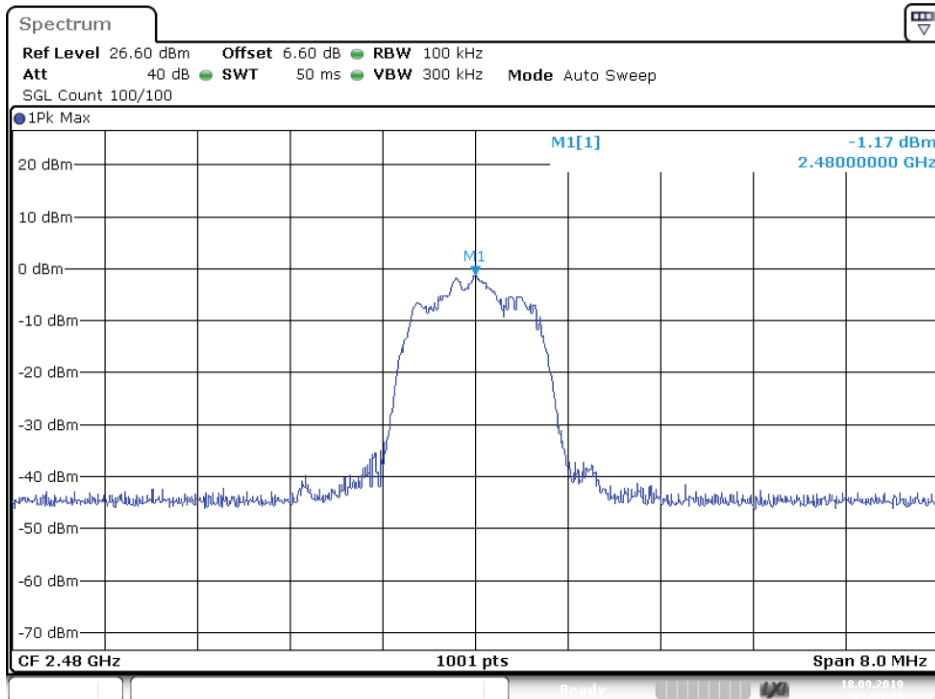
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Band Edge NVNT 3-DH1 2480MHz Ant1 Hopping Emission



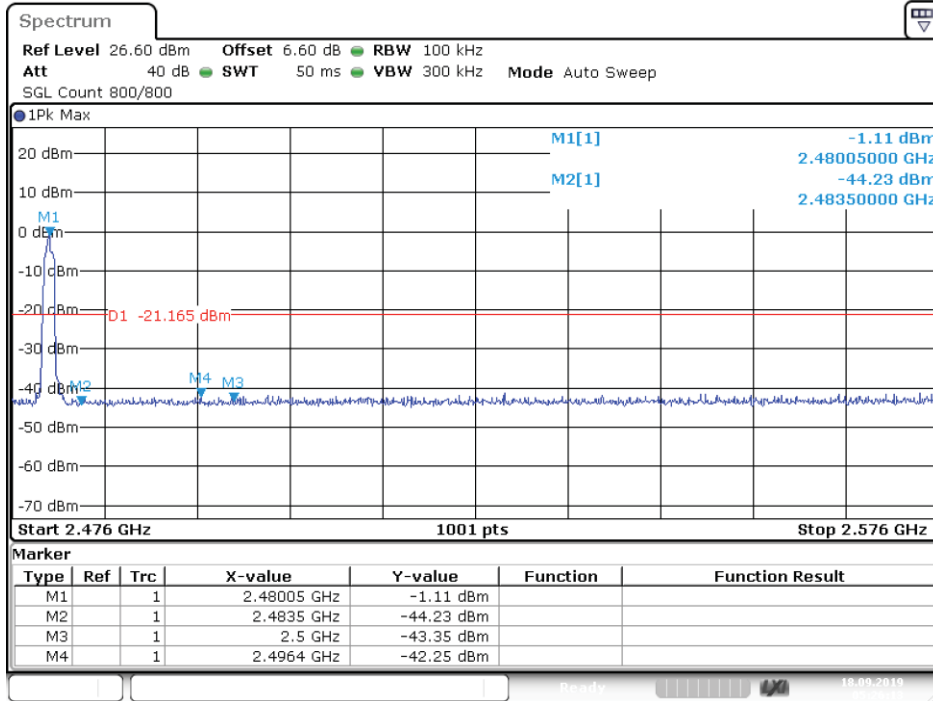
Date: 18.SEP.2019 05:28:42

Band Edge NVNT 3-DH1 2480MHz Ant1 No-Hopping Ref



Date: 18.SEP.2019 05:25:25

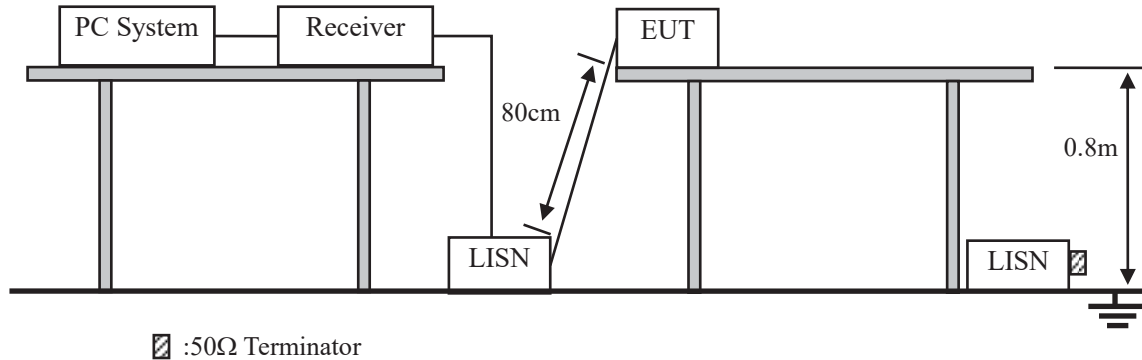
Band Edge NVNT 3-DH1 2480MHz Ant1 No-Hopping Emission



Date: 18.SEP.2019 05:26:14

10. POWER LINE CONDUCTED EMISSIONS

10.1. Block Diagram of Test Setup



10.2. Limit

Frequency	Maximum RF Line Voltage	
	Quasi-Peak Level dB(μ V)	Average Level dB(μ V)
150kHz ~ 500kHz	66 ~ 56*	56 ~ 46*
500kHz ~ 5MHz	56	46
5MHz ~ 30MHz	60	50

Notes: 1. * Decreasing linearly with logarithm of frequency.

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

10.3. Test Procedure

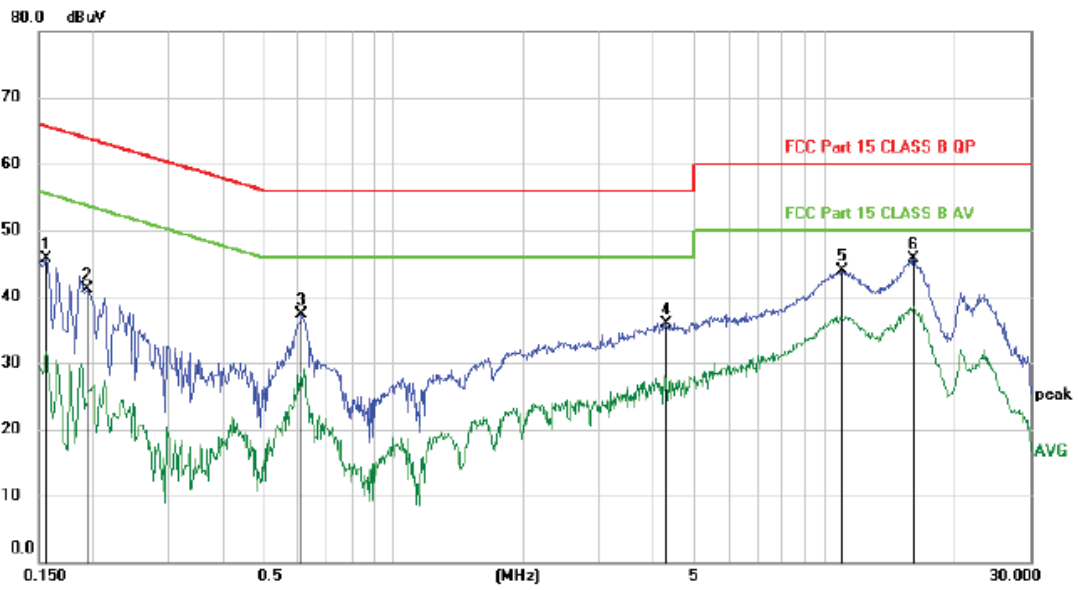
- (1) The EUT was placed on a non-metallic table, 80cm above the ground plane.
- (2) Setup the EUT and simulator as shown in 10.1
- (3) The EUT Power connected to the power mains through a power adapter and a line impedance stabilization network (L.I.S.N1). The other peripheral devices power cord connected to the power mains through a line impedance stabilization network (L.I.S.N2), this provided a 50-ohm coupling impedance for the EUT (Please refer to the block diagram of the test setup and photographs). Both sides of power line were checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipments and all of the interface cables were changed according to ANSI C63.10 :2013on conducted Emission test.
- (4) The bandwidth of test receiver is set at 10KHz.
- (5) The frequency range from 150 KHz to 30MHz is checked.

10.4. Test Result

PASS. (See below detailed test data)

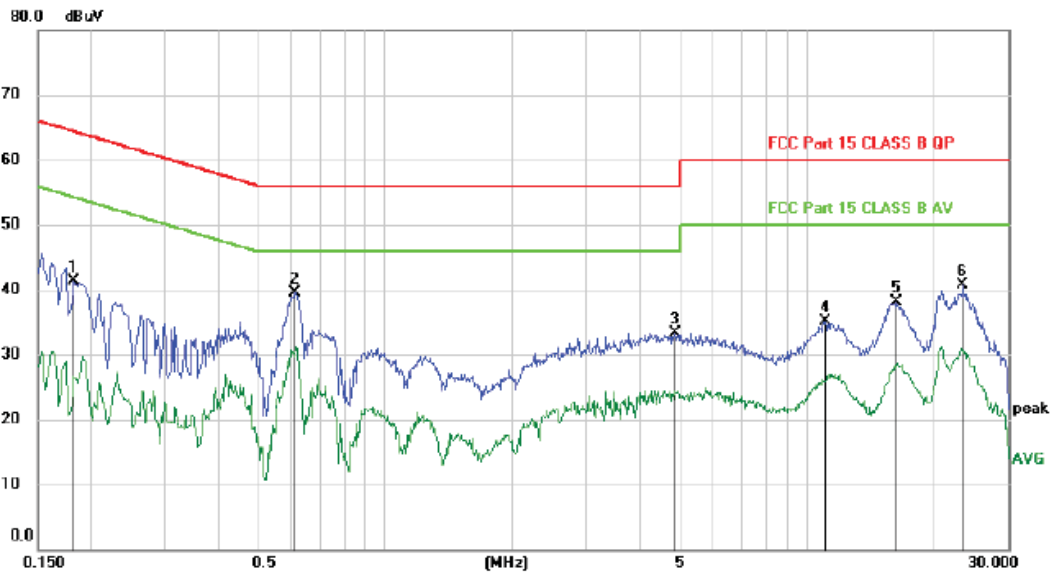
Note: If peak Result comply with AV limit, QP and AV Result is deemed to comply with AV limit

Line:



No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	0.1560	35.86	9.80	45.66	65.67	-20.01	peak	
2	0.1949	31.29	9.80	41.09	63.83	-22.74	peak	
3	0.6120	27.50	9.80	37.30	56.00	-18.70	peak	
4	4.2930	26.07	9.78	35.85	56.00	-20.15	peak	
5	10.9830	34.15	9.80	43.95	60.00	-16.05	peak	
6 *	16.0620	35.85	9.80	45.65	60.00	-14.35	peak	

Neutral:



No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV	Limit dBuV	Margin dB	Detector	Comment
1	0.1830	31.59	9.80	41.39	64.35	-22.96	peak	
2 *	0.6090	29.73	9.80	39.53	56.00	-16.47	peak	
3	4.8990	23.57	9.80	33.37	56.00	-22.63	peak	
4	11.0520	25.36	9.80	35.16	60.00	-24.84	peak	
5	16.3020	28.29	9.80	38.09	60.00	-21.91	peak	
6	23.4720	30.91	9.73	40.64	60.00	-19.36	peak	

Remark: All modes have been tested, and only worst data of GFSK mode, Channel 2402MHz (AC 120V/60Hz) was listed in this report.

11. ANTENNA REQUIREMENTS

11.1. Limit

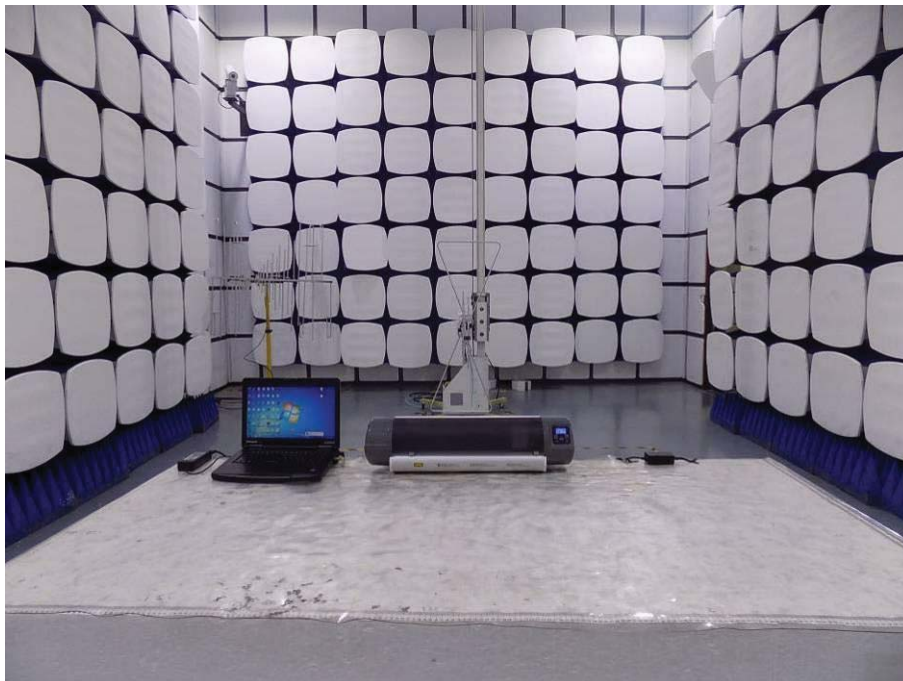
For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

11.2. Result

The EUT antenna is Internal Antenna. It complies with the standard requirement.

12. TEST SETUP PHOTO

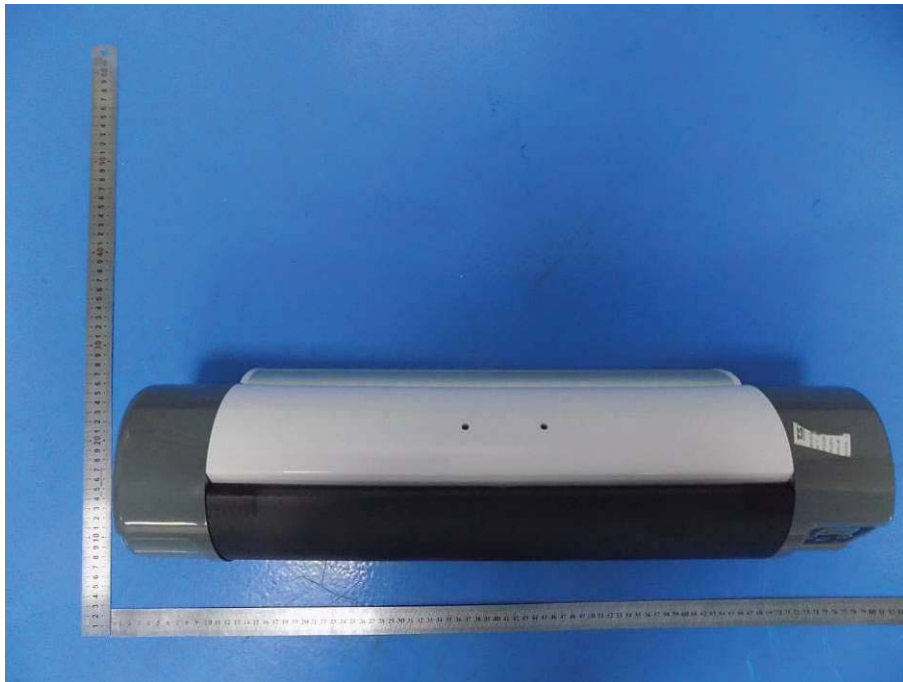
12.1. Photos of Radiated emission

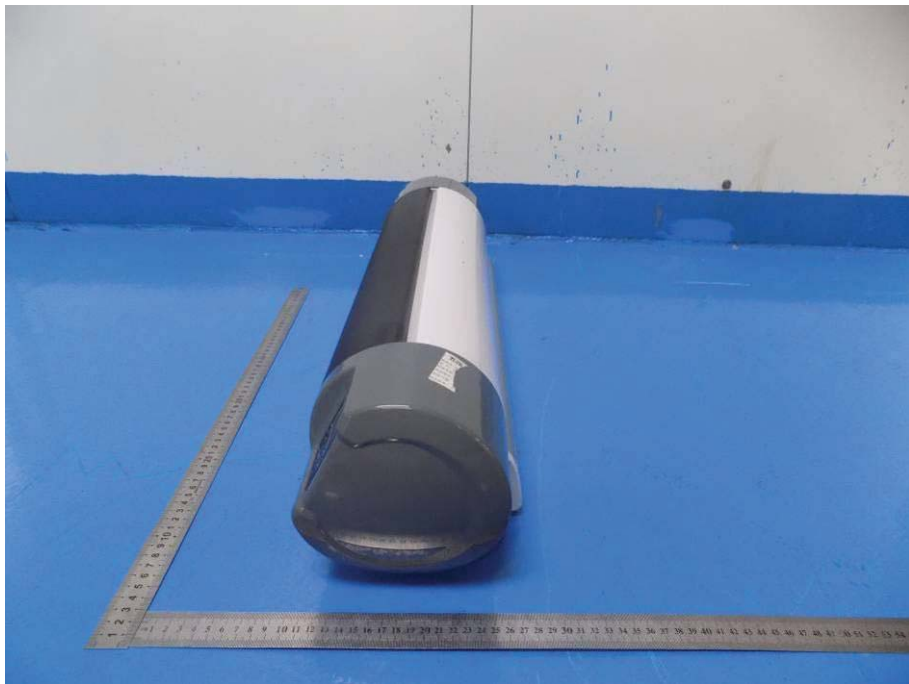


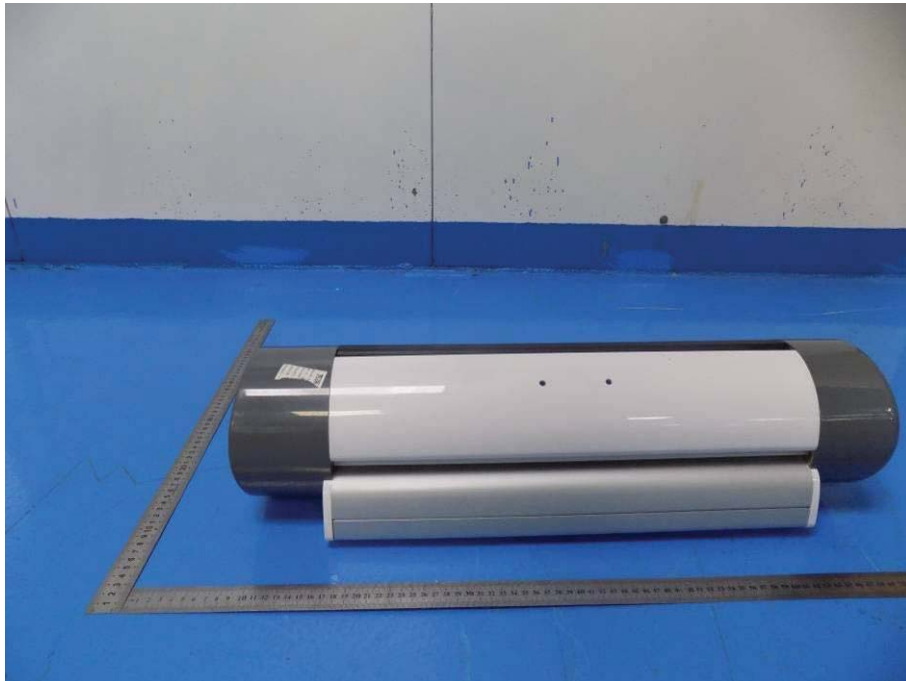
12.2.Photos of Conducted Emission test

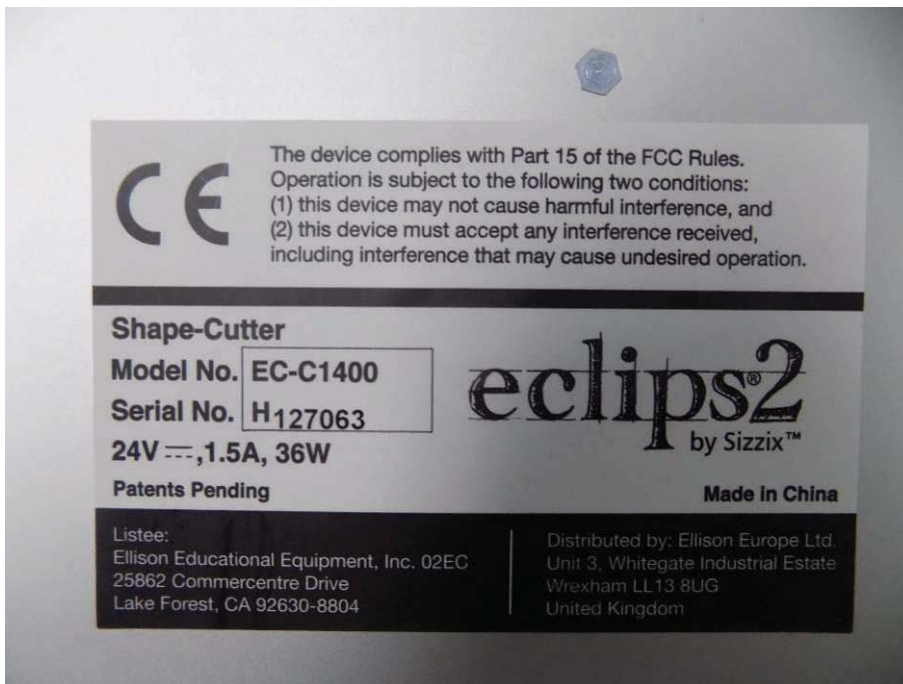


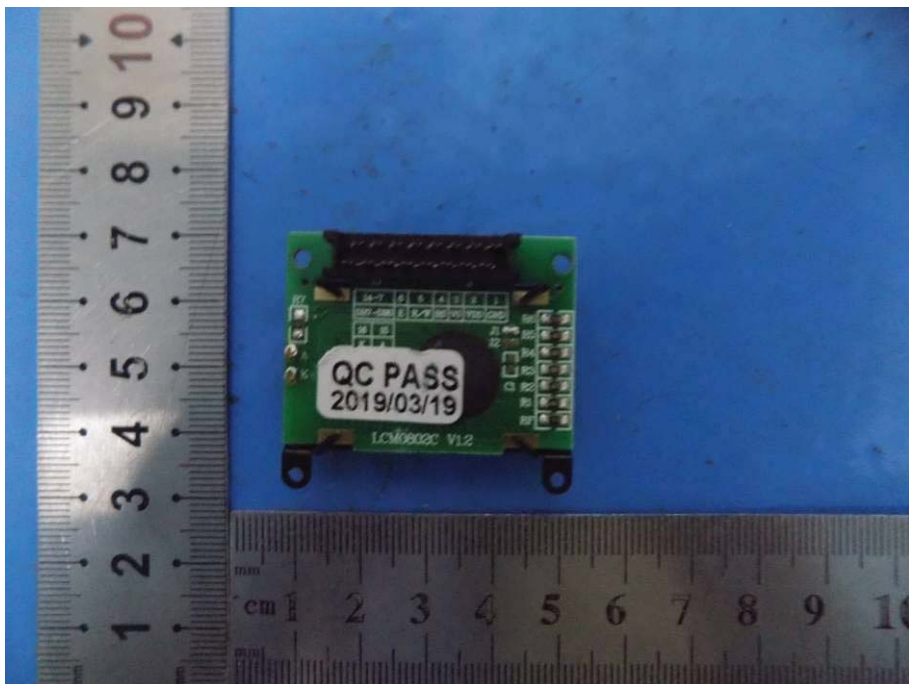
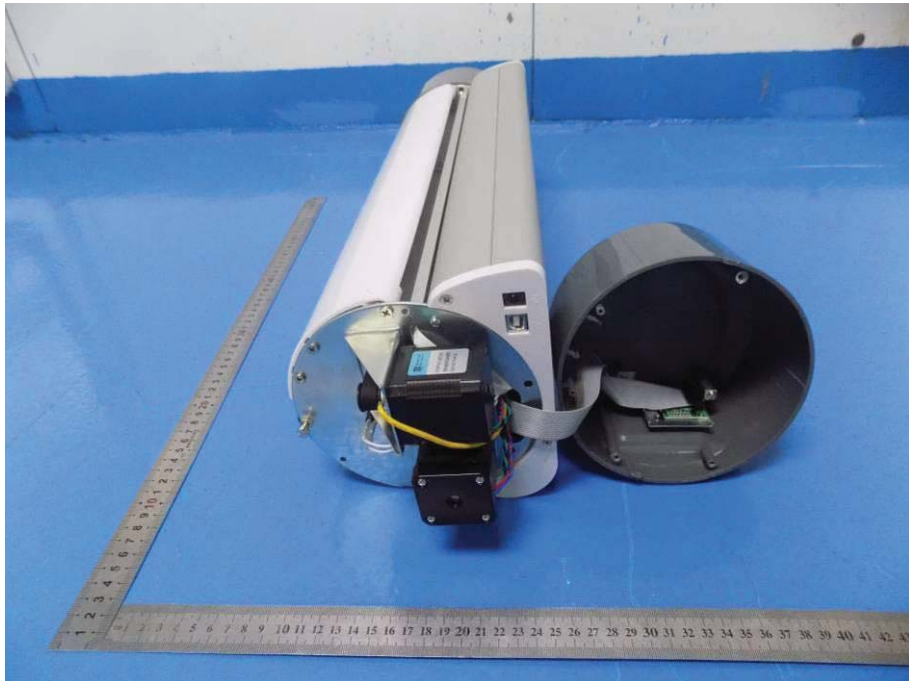
13. PHOTOS OF EUT

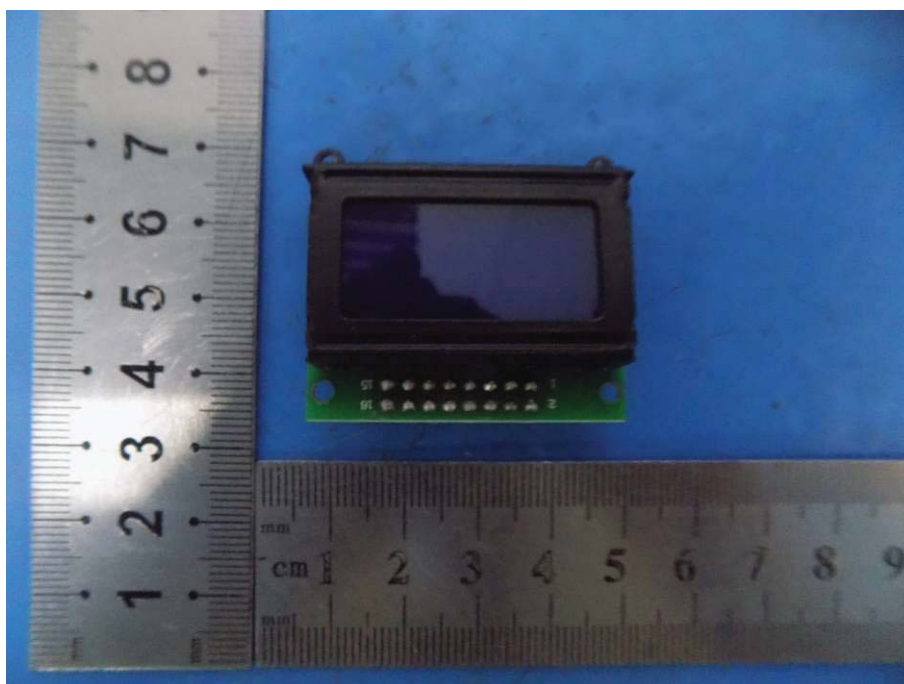
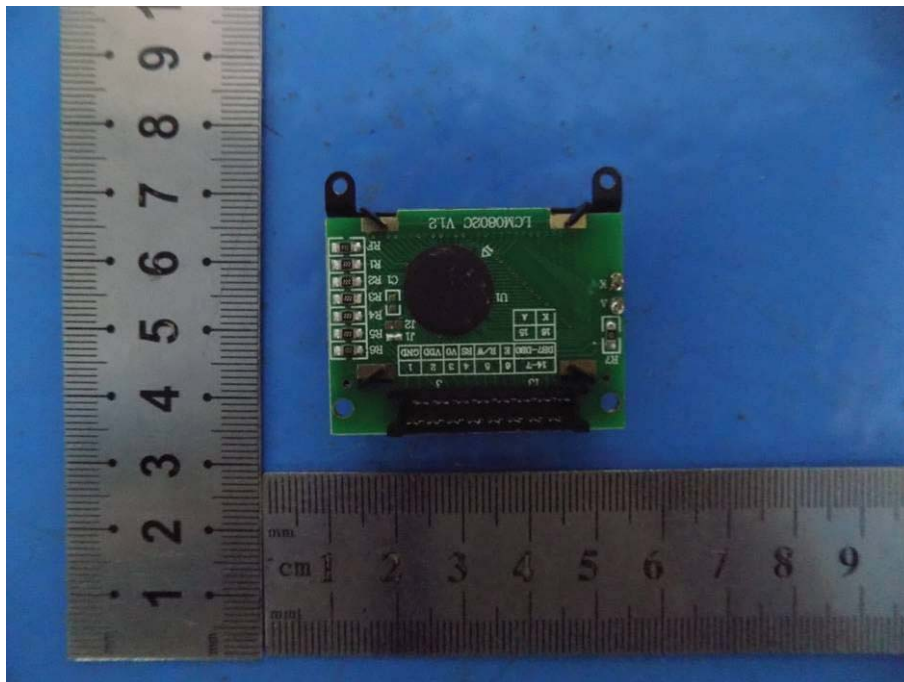


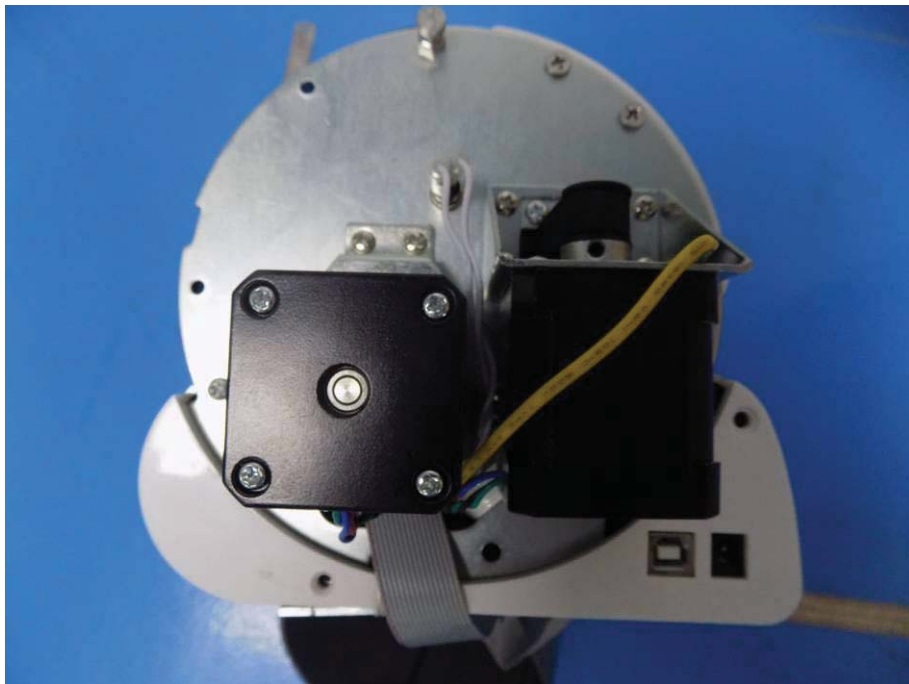


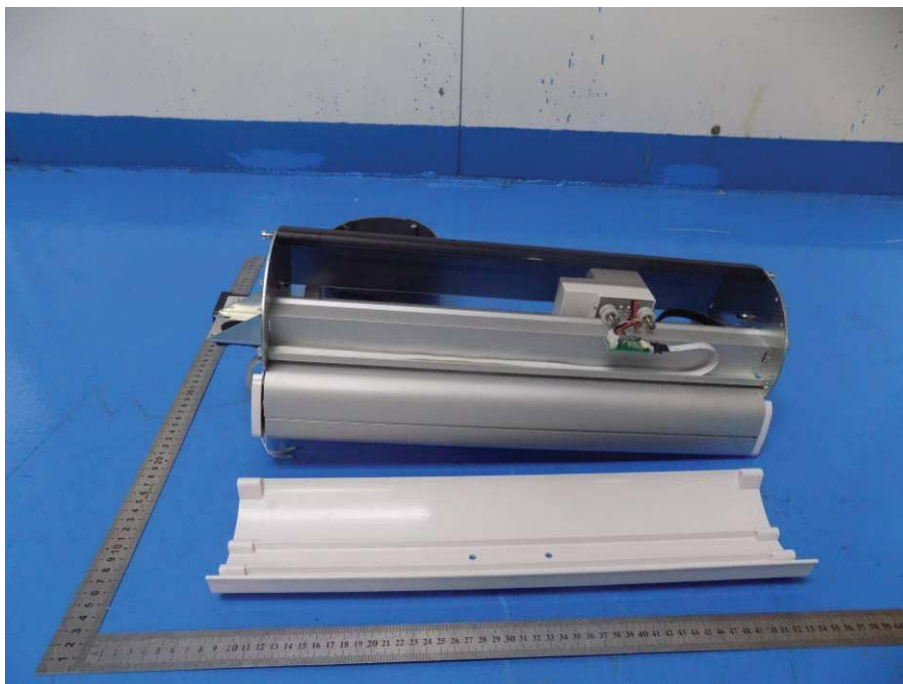


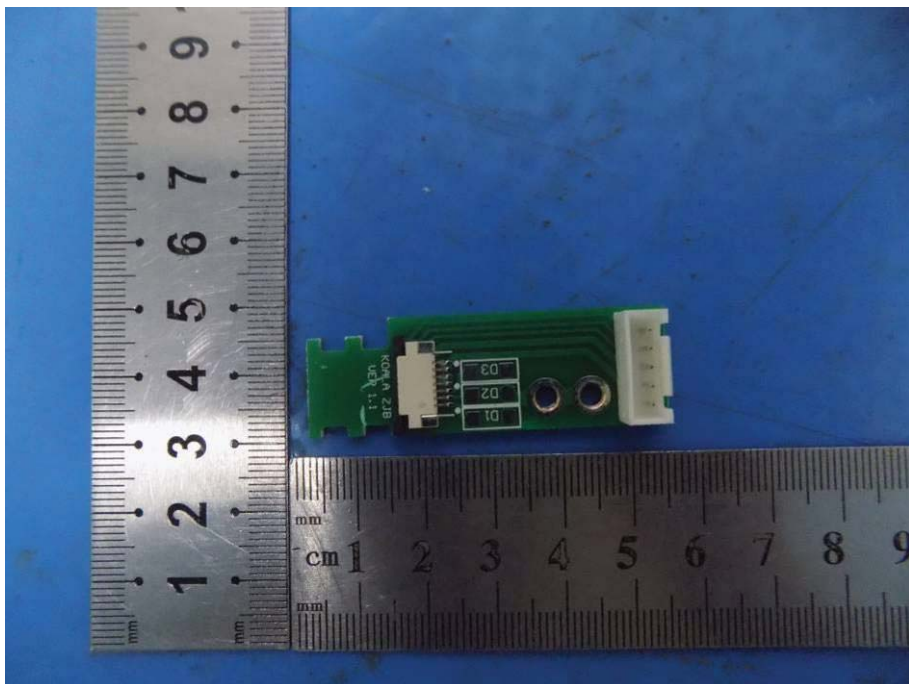
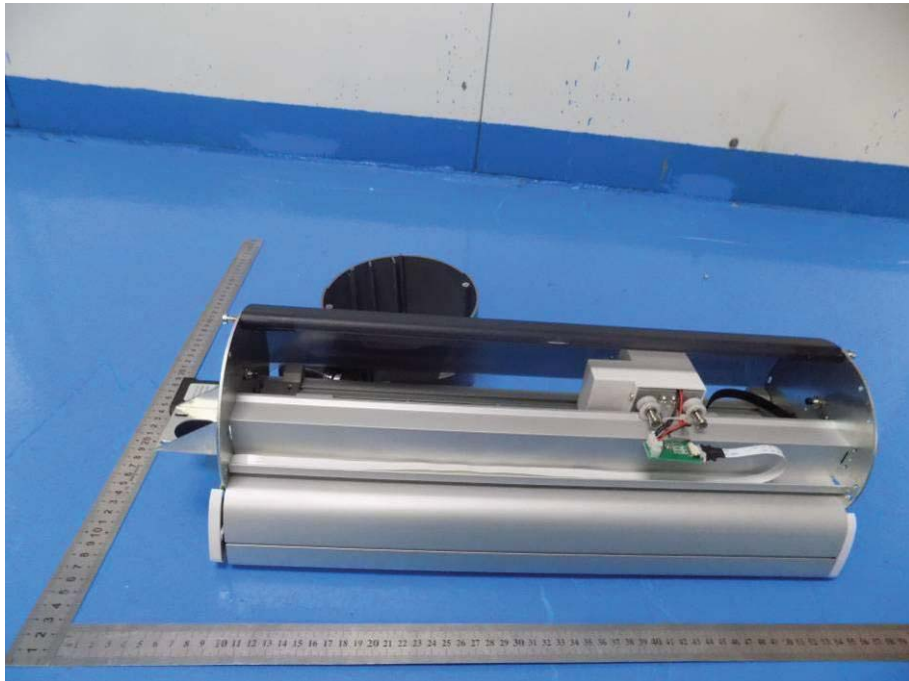


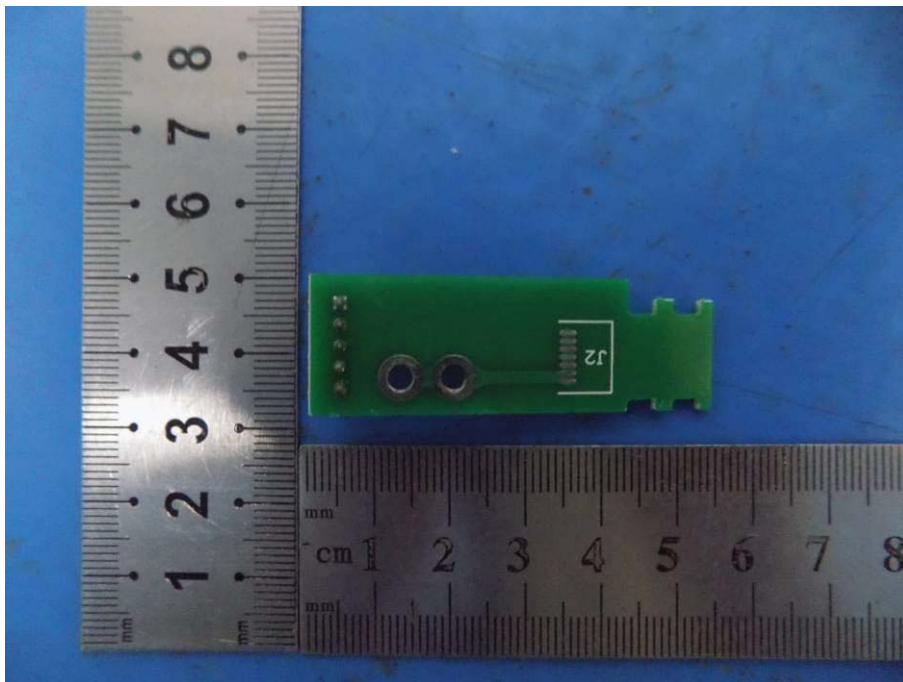


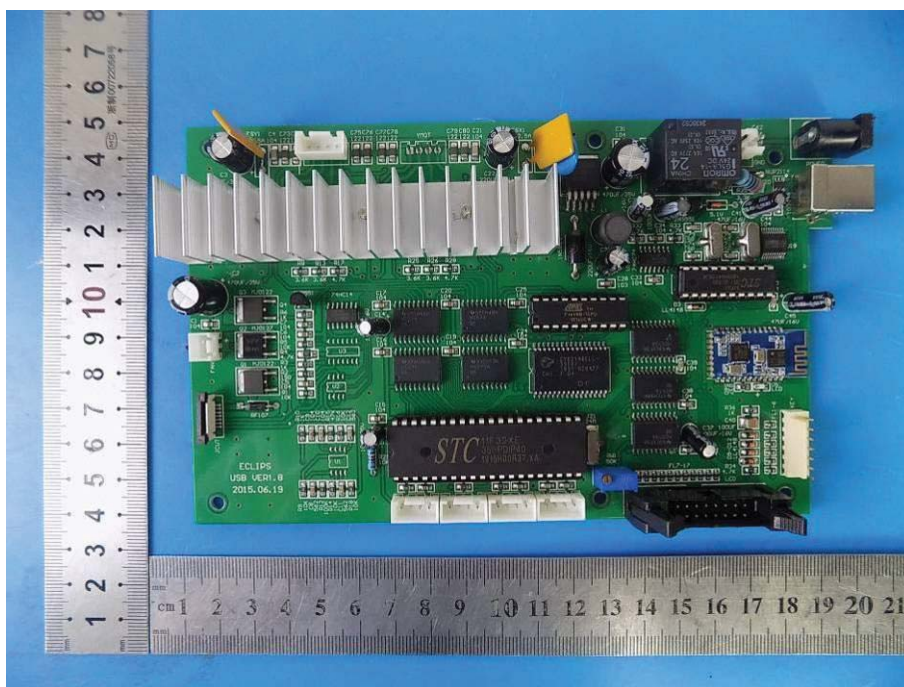
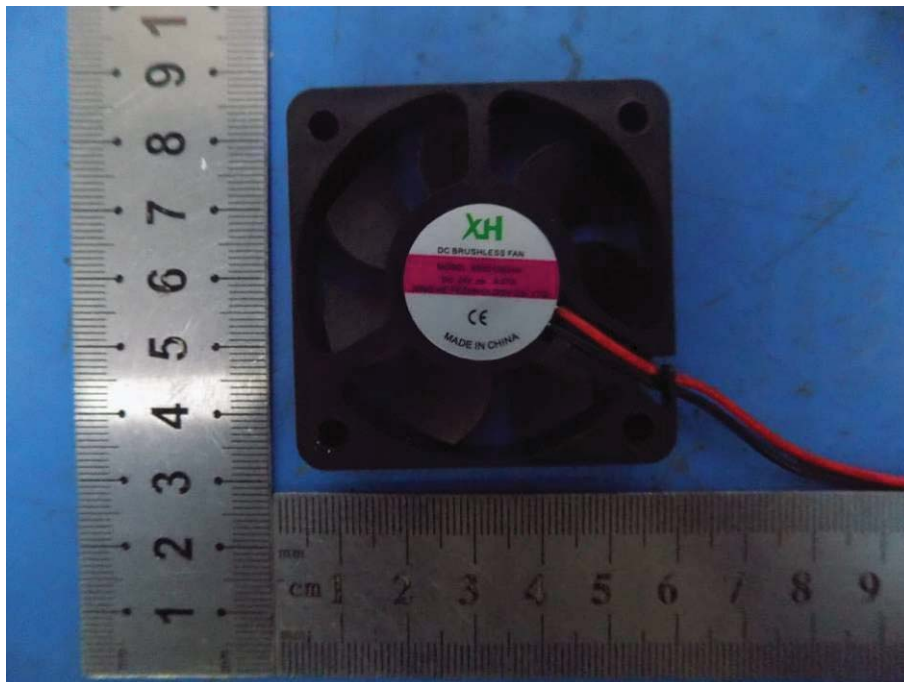


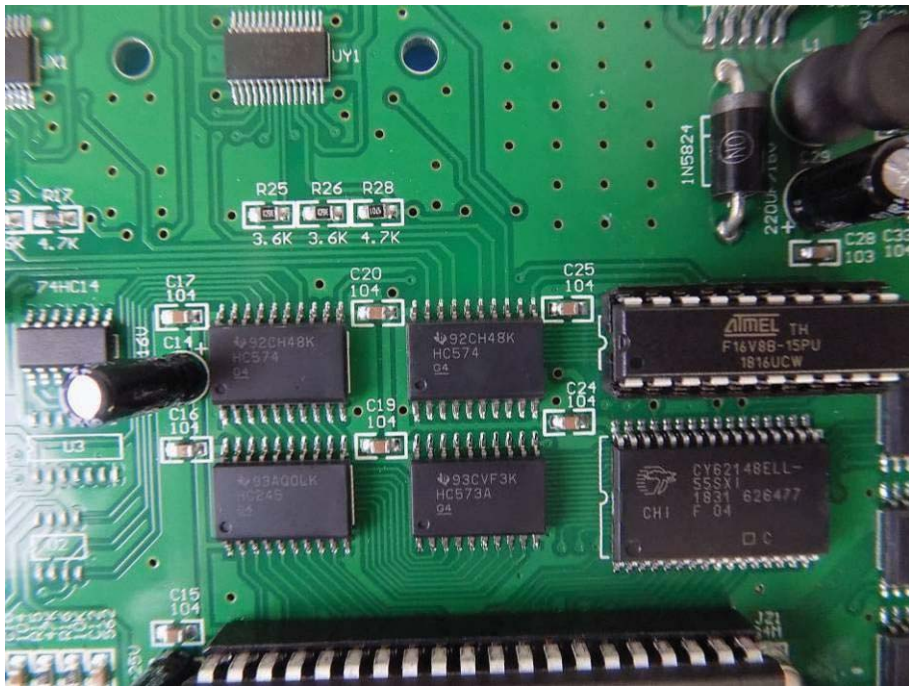
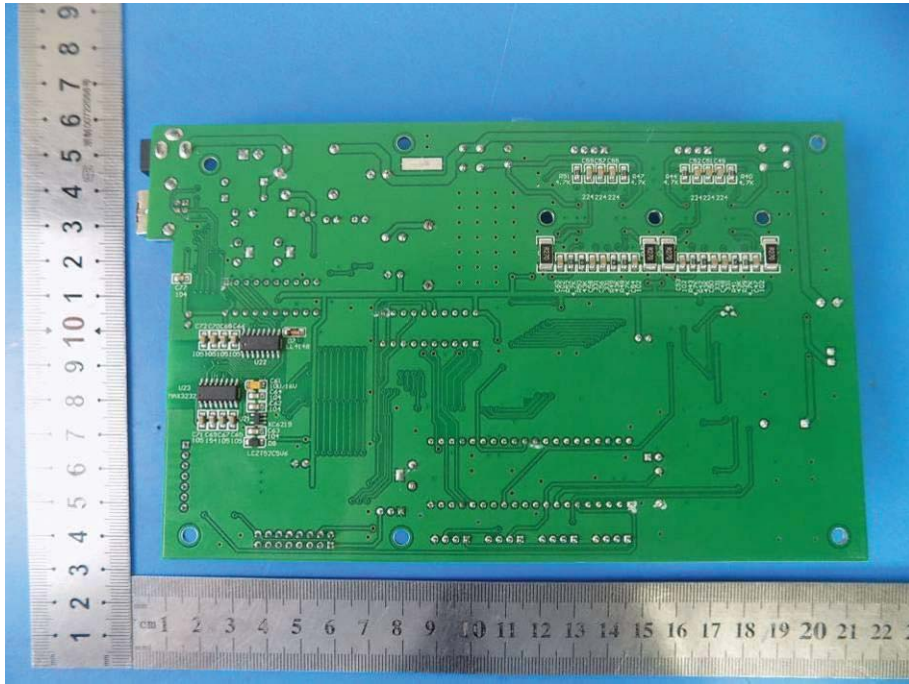


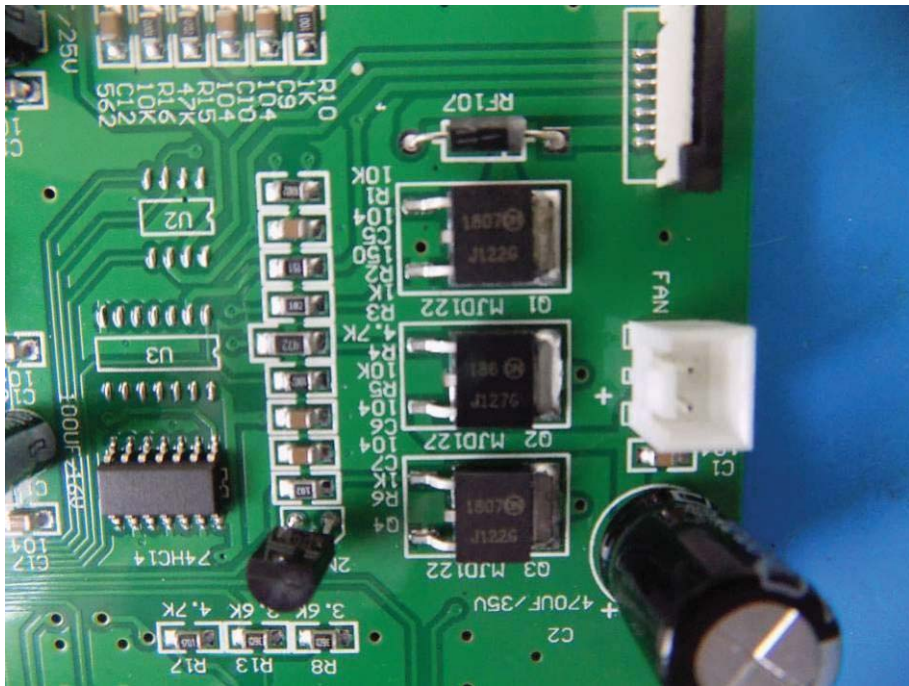
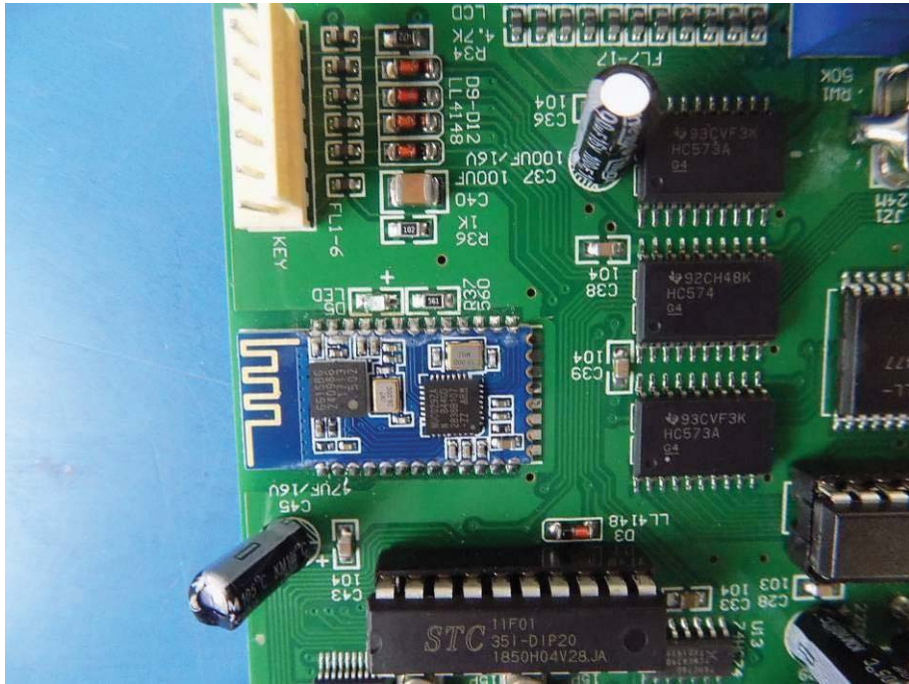


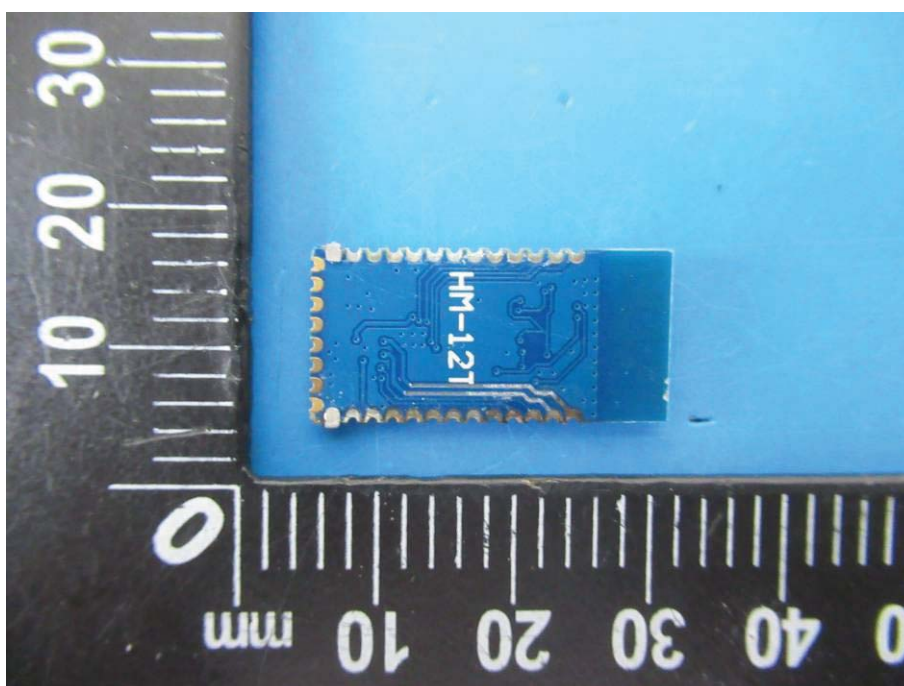
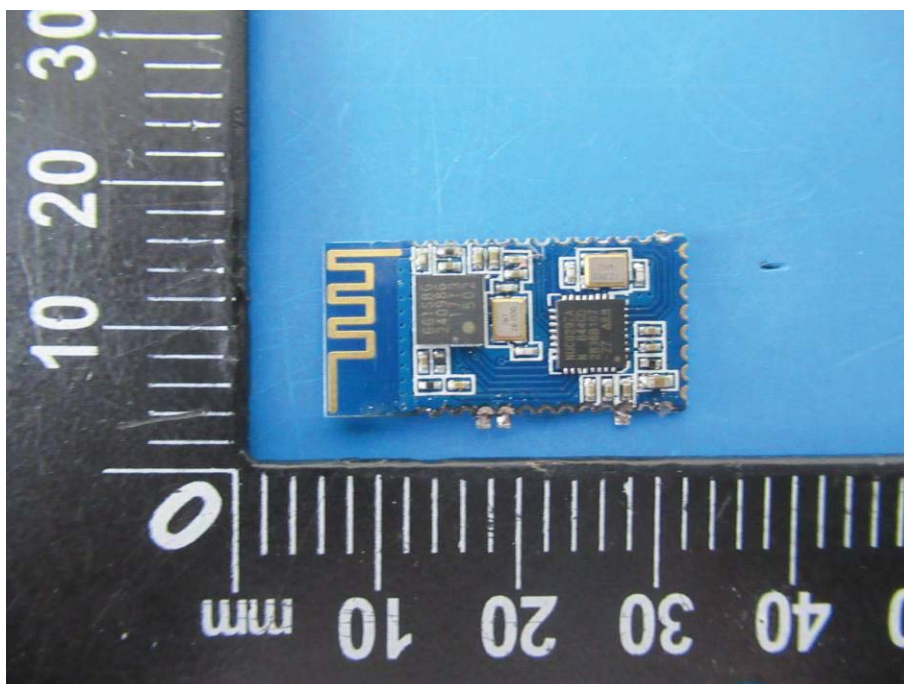












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