

# TEST REPORT



CTK Co., Ltd.  
The Prime Leader of Global Regulatory Certification

## CTK Co., Ltd.

(Ho-dong), 113, Yejik-ro, Cheoin-gu,  
Yongin-si, Gyeonggi-do, Korea  
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Report No.:  
CTK-2017-01128  
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### 1. Client

- Name : Yujin Robot Co., Ltd.
- Address : 1214 , Namsung Plaza, Gasan-dong, 130, Digital-ro , geumchen-gu, Seoul
- Date of Receipt : 2017-04-26

### 2. Manufacturer

- Name : Yujin Robot Co., Ltd.
- Address : 1214 , Namsung Plaza, Gasan-dong, 130, Digital-ro , geumchen-gu, Seoul

### 3. Use of Report : For FCC Certification

### 4. Test Sample / Model: Cleaning Robot / YCR-M08-10



### 5. Date of Test : 2017-05-17 to 2017-06-01

### 6. Test Standard(method) used : FCC 47 CFR part 15 subpart C 15.247

### 7. Testing Environment: Temp.: (20 ± 5) °C, Humidity: (51 ± 3) % R.H.

### 8. Test Results : Compliance

The results shown in this test report refer only to the sample(s) tested unless otherwise stated. This Test Report cannot be reproduced, except in full.

Affirmation	Tested by	Technical Manager
	Ji-hye, Kim:  (Signature)	Young-joon, Park:  (Signature)

2017-06-08

Republic of KOREA **CTK Co., Ltd.**



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## REPORT REVISION HISTORY

Date	Revision	Page No
2017-06-08	Issued (CTK-2017-01128)	all

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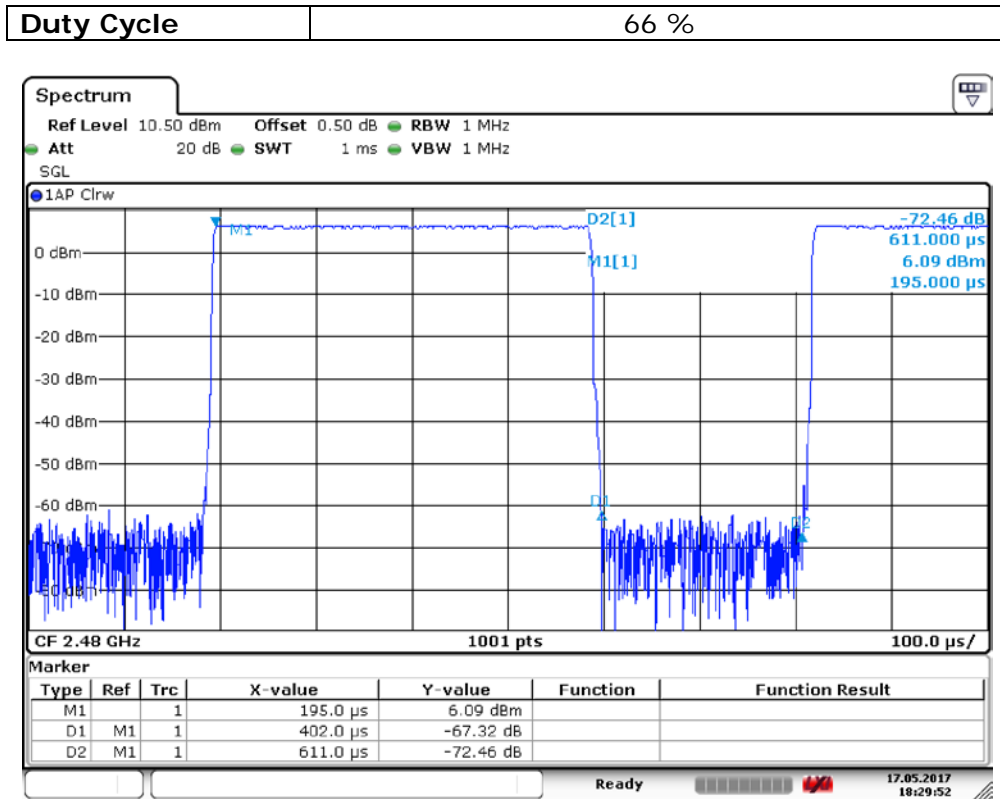
## 1.0 General Product Description

FCC ID	2AME4-YCRM0810
Basic Model/Type No.	YCR-M08-10
Variant Model/Type No.	YCR-M08-30, YCR-M08-50, YCR-M08-70, YCR-M08-90, YCR-M08-40, YCR-M08-60, YCR-M08-80, YCR-M08-100 YCR-M08-20
Serial number	Prototype
EUT condition	Pre-production, not damaged
Antenna type	PCB antenna      Gain -3.11 dBi
Frequency Range	2402 MHz - 2480 MHz
RF power	6.68 dBm
Number of channels	40
Channel Spacing	2 MHz
Type of Modulation	GFSK (Bluetooth 4.0 - LE)
Power Source	DC 16 V (Battery)
Hardware Rev	0.04A
Software Rev	2.09
Firmware Rev	2.11

### 1.1 Tested Frequency

	<b>LOW</b>	<b>MID</b>	<b>HIGH</b>
<b>Frequency (MHz)</b>	2 402	2 440	2 480

## 1.2 Duty Cycle



## 1.3 Model Differences

YCR-M08-10, YCR-M08-30, YCR-M08-50, YCR-M08-70, YCR-M08-90, YCR-M08-40, YCR-M08-60, YCR-M08-80, YCR-M08-100 and YCR-M08-20 are no technical difference from each model only except for Model name and color because of marketing purposes.

## 1.4 Device Modifications

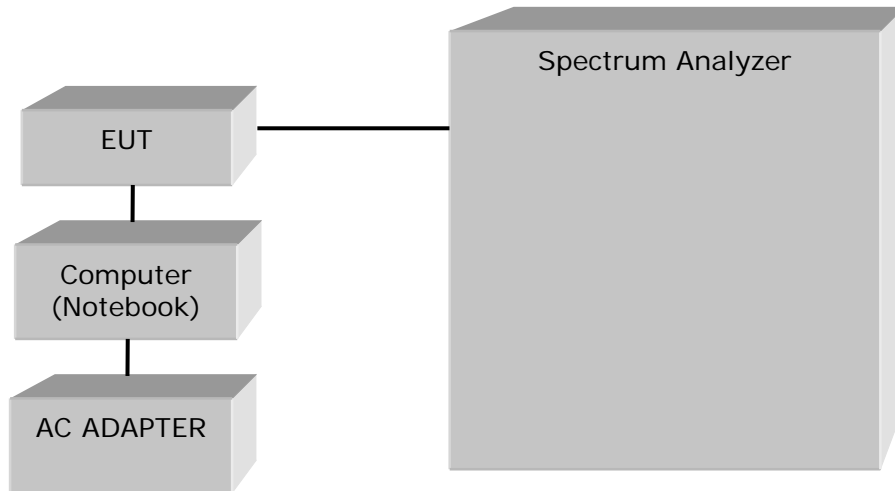
The following modifications was applied by the applicant:

Not applicable

## 1.5 Peripheral Devices

Device	Manufacturer	Model No.	Serial No.
Note Computer	HP	ProBook 650 G1	5CG5114KD2
AC ADAPTER	HP	PPP012D-S	-

## 1.6 Configuration of System under Test







## 1.7 Calibration Details of Equipment Used for Measurement

Test equipment and test accessories are calibrated on regular basis. The maximum time between calibrations is one year or what is recommended by the manufacturer, whichever is less. All test equipment calibrations are traceable to the Korea Research Institute of Standards and Science (KRISS), therefore, all test data recorded in this report is traceable to KRISS.

## 1.8 Test Facility

The measurement facility is located at (Ho-dong), 113, Yejik-ro, Cheoin-gu, Yongin-si, Gyeonggi-do, Korea. The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.4 and CISPR Publication 22.

## 1.9 Laboratory Accreditations and Listings

Country	Agency	Scope of Accreditation	Registration Number	Logo
USA	FCC	FCC Part 15 & 18 EMI (Electromagnetic Interference / Emission)	805871	
CANADA	IC	IC EMI (3/10m test site)	8737A-2	
JAPAN	VCCI	VCCI V-3 EMI (Electromagnetic Interference / Emission)	C-986 T-1843 R-3627 G-387	
KOREA	MSIP	EMI (Electromagnetic Interference / Emission) EMS (Electromagnetic Susceptibility / Immunity)	KR0025	



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## 2.0 Summary of tests

FCC Part Section(s)	Parameter	Limit	Test Condition	Status (note 1)
15.247(a)	6 dB Bandwidth	> 500 kHz	Conducted	C
15.247(b)	Maximum Output Power	< 1 Watt		C
15.247(d)	Conducted Spurious emission	> 20 dBc		C
15.247(d)	Band Edge	> 20 dBc		C
15.247(e)	Transmitter Power Spectral Density	< 8 dBm @ 3 kHz		C
				C
15.209	Field Strength of Harmonics	15.209(a)	Radiated	C
15.207	AC Conducted Emissions	15.207(a)	Line Conducted	C

Note 1: C=Complies NC=Not Complies NT=Not Tested NA=Not Applicable

Note 2: The data in this test report are traceable to the national or international standards.

The sample was tested according to the following specification:  
- FCC Part 15.247, ANSI C63.10-2013

The tests were performed according to the method of measurements prescribed in KDB No.558074.





## 2.1 Technical Characteristic Test

### 2.1.1 6dB Bandwidth

#### Test Procedures(ANSI C63.10-2013 6.9.2)

Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

#### Test Procedures(ANSI C63.10-2013 6.9.3)

The occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers are each equal to 0.5% of the total mean power of the given emission.

Use the 99% power bandwidth function of the instrument and report the measured bandwidth.

#### Test Settings :

Center frequency = the highest, middle and the lowest channels

- a) RBW = 100 kHz
- b) VBW  $\geq 3 \times$  RBW
- c) Detector = peak
- d) Trace mode = Max hold
- e) Sweep = auto couple
- f) Allow trace to fully stabilize
- g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

#### **Minimum Standard :**

---

6 dB Bandwidth > 500kHz

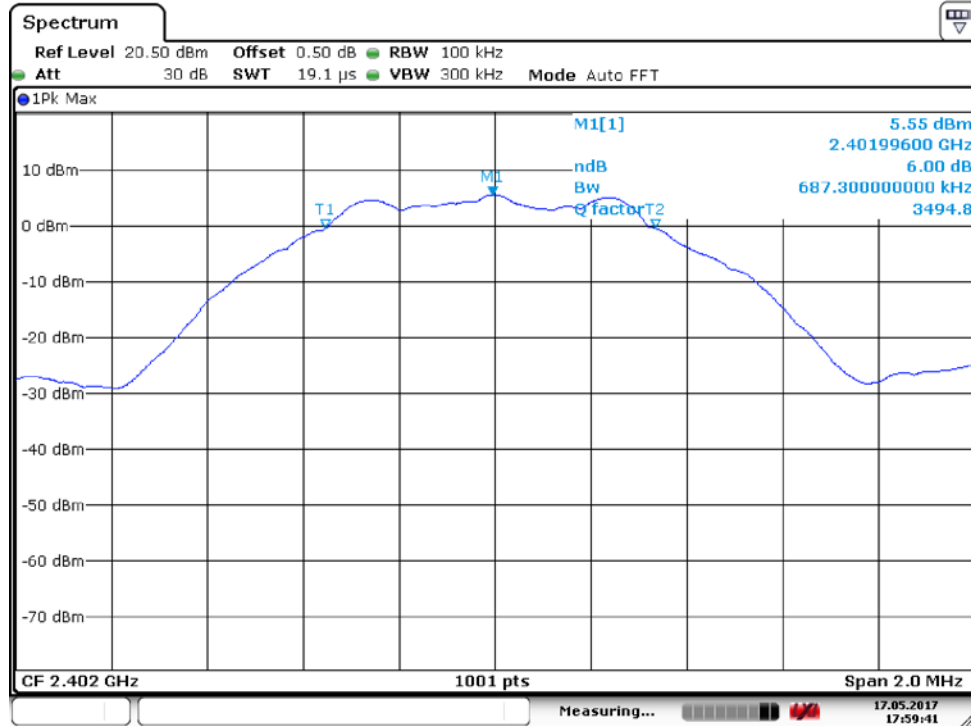
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#### **Test Data :**

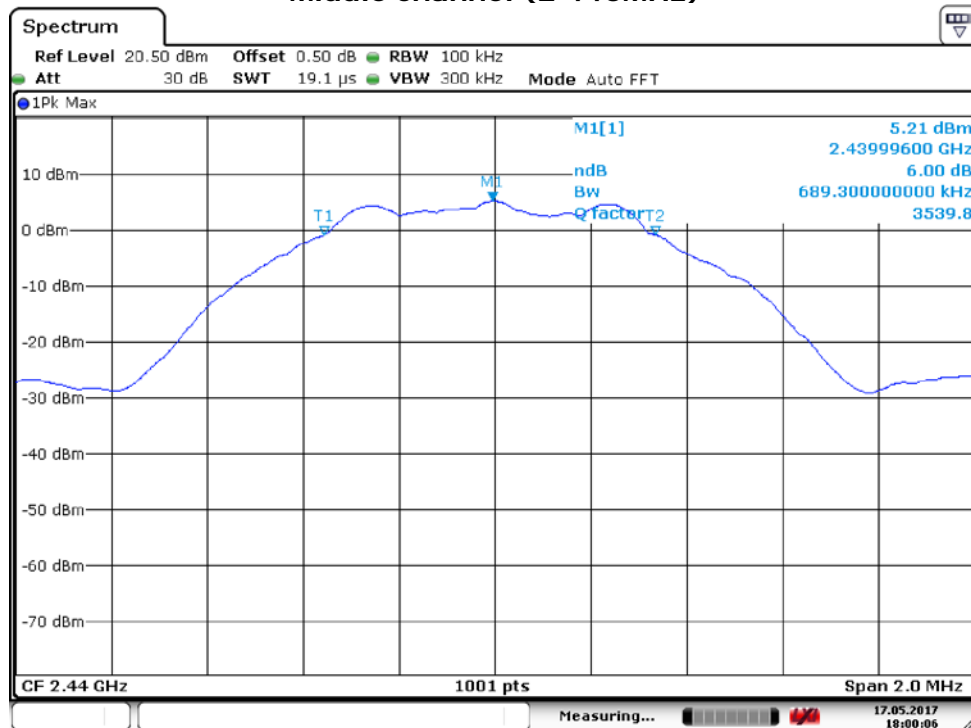
Frequency (MHz)	6dB Bandwidth (MHz)	99% Bandwidth (MHz)	Result
2 402	0.687	1.038	Complies
2 440	0.689	1.038	Complies
2 480	0.701	1.038	Complies

See next pages for actual measured spectrum plots.

### 6dB Bandwidth Low channel (2 402 MHz)



### Middle channel (2 440MHz)

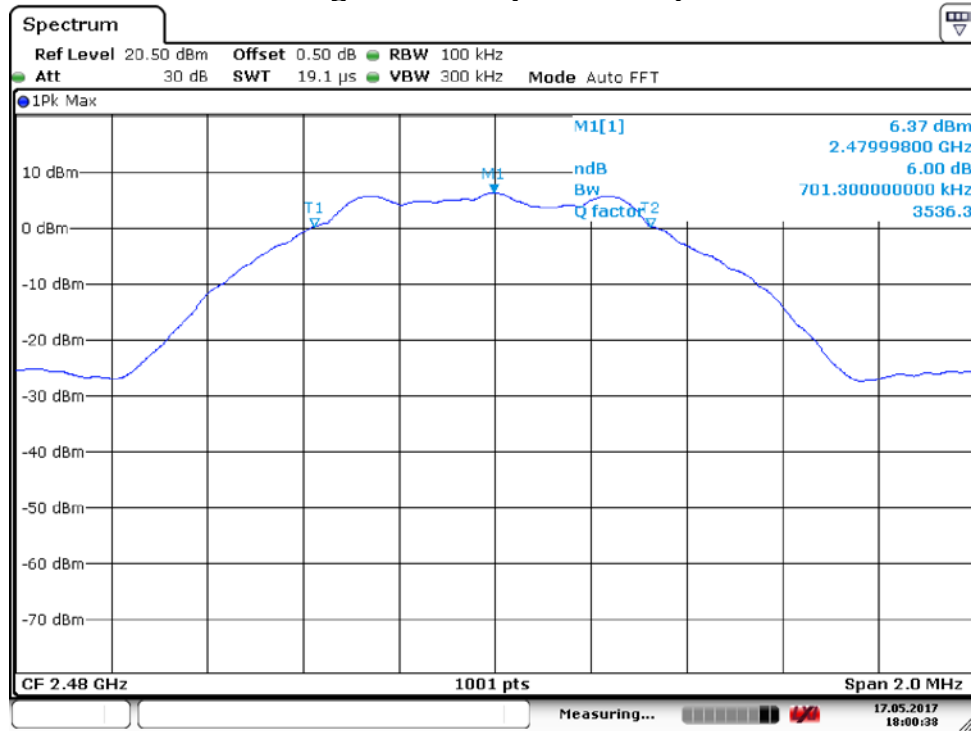




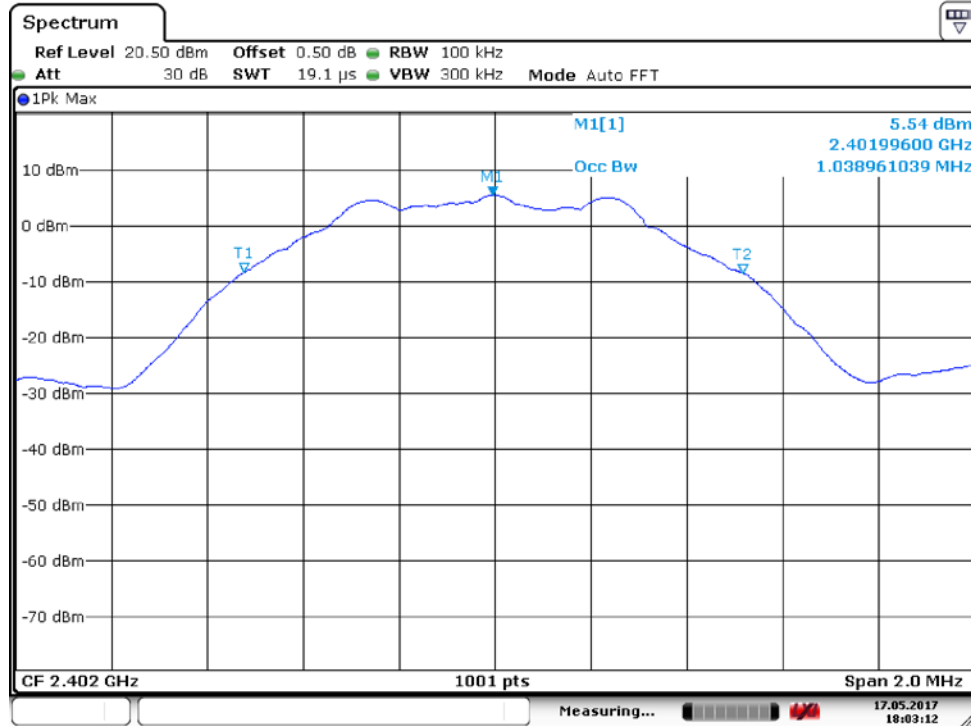
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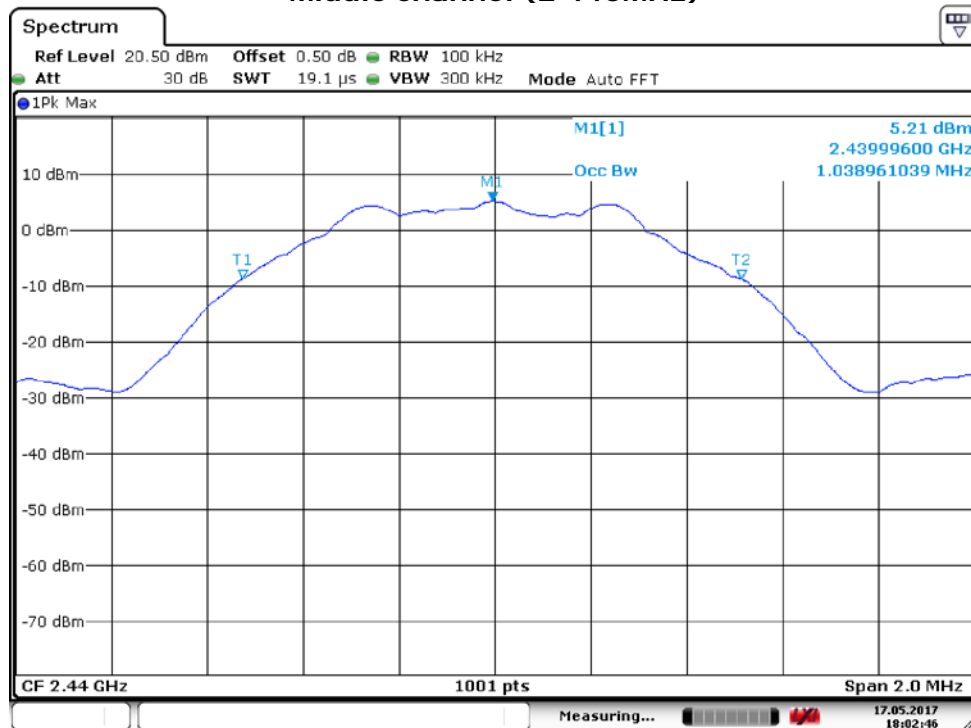
### High channel (2 480 MHz)



### 99% Bandwidth Low channel (2 402 MHz)



### Middle channel (2 440MHz)

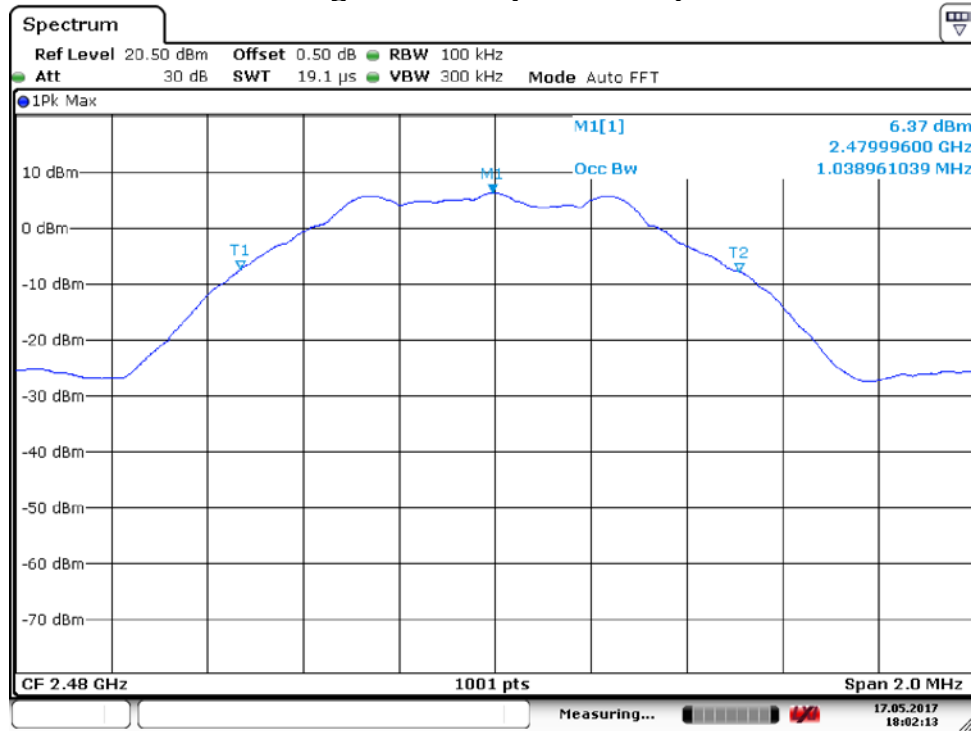




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### High channel (2 480 MHz)





## 2.1.2 Maximum peak Conducted Output Power

### Test Procedures(ANSI C63.10-2013 11.9.1)

Maximum Peak Output Power from the EUT were measured according to the dictates power measurement procedure in section 9.1.1 of KDB 558074.

This procedure shall be used when the measurement instrument has available a resolution bandwidth that is greater than the DTS bandwidth.

#### Test Settings:

Center frequency = the highest, middle and the lowest channels

- a) RBW  $\geq$  DTS bandwidth
- b) VBW  $\geq$  3 x RBW
- c) span  $\geq$  3 x RBW
- d) Sweep time = auto couple
- e) Detector = peak
- f) Trace mode= max hold
- g) Allow trace to fully stabilize
- h) Use peak marker function to determine the peak amplitude level.

#### Limit :

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Maximum Output Power < 1 W (30 dBm)

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#### Test Data :

Frequency (MHz)	Maximum peak Conducted Output Power		
	Output power (dBm)	Output power (mW)	Result
2 402	5.87	3.86	Complies
2 440	5.45	3.51	Complies
2 480	6.68	4.66	Complies

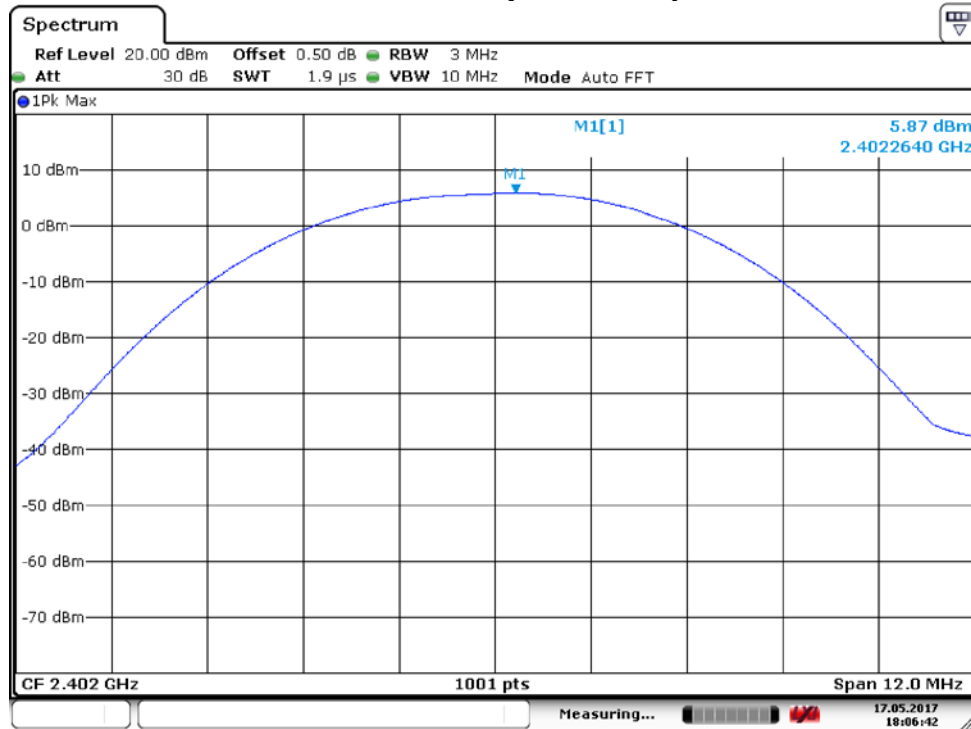
See next pages for actual measured spectrum plots.



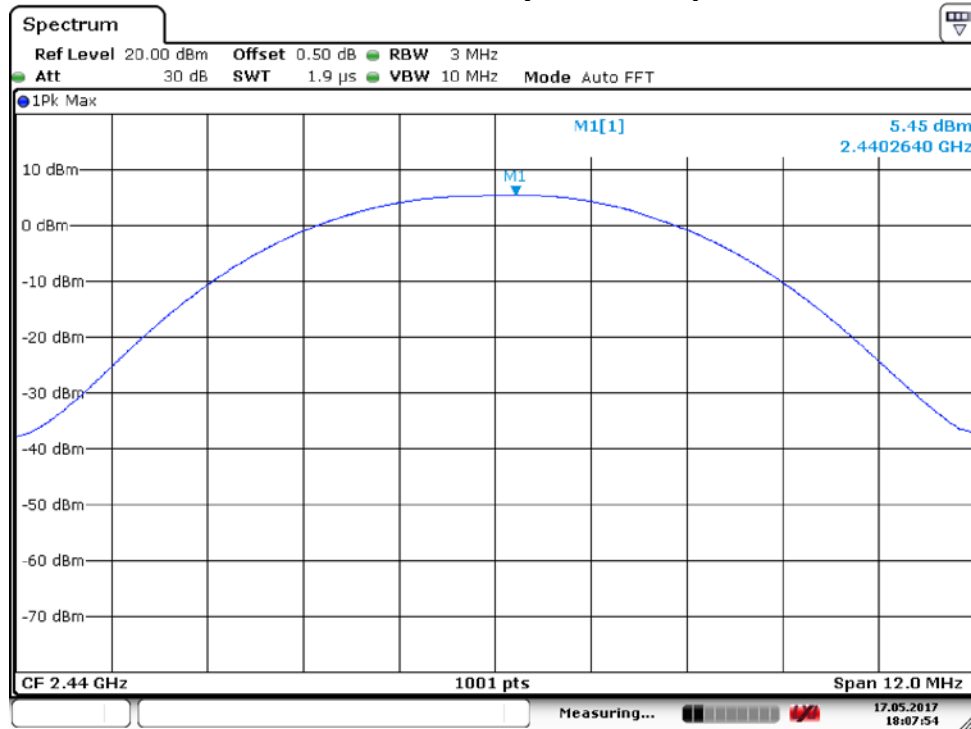
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### Low channel (2 405 MHz)



### Middle channel (2 445 MHz)

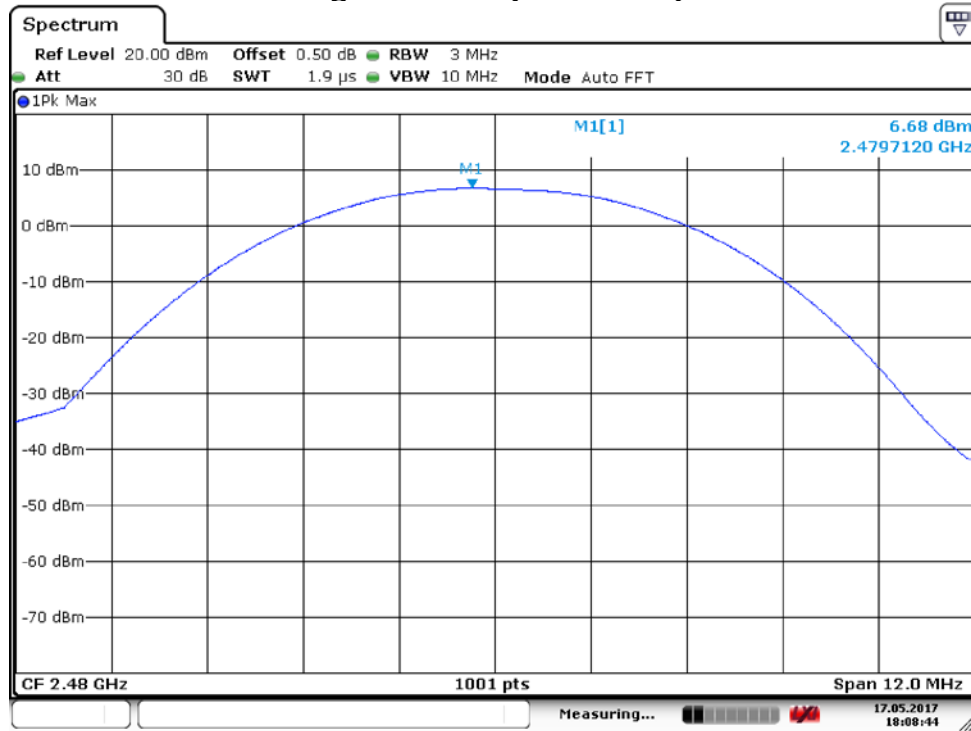




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### High channel (2 480 MHz)





## 2.1.3 Transmitter Power Spectral Density

### Test Procedures(ANSI C63.10-2013 11.10.2)

Power Spectral Density from the EUT were measured according to the dictates PKPSD measurement procedure in 10.2 of KDB 558074.

This procedure shall be used if maximum peak conducted output power was used to demonstrate compliance.

#### Test Settings:

Center frequency = the highest, middle and the lowest channels

- a) RBW : 3 kHz  $\leq$  RBW  $\leq$  100 kHz
- b) VBW  $\geq$  3 x RBW
- c) span  $\geq$  1.5 x DTS bandwidth
- d) Sweep time = auto couple
- e) Detector = peak
- f) Trace mode= max hold
- g) Allow trace to fully stabilize
- h) Use the peak marker function to determine the maximum amplitude level within the RBW.

#### **Limit :**

---

Power Spectral Density < 8dBm @ 3 kHz BW

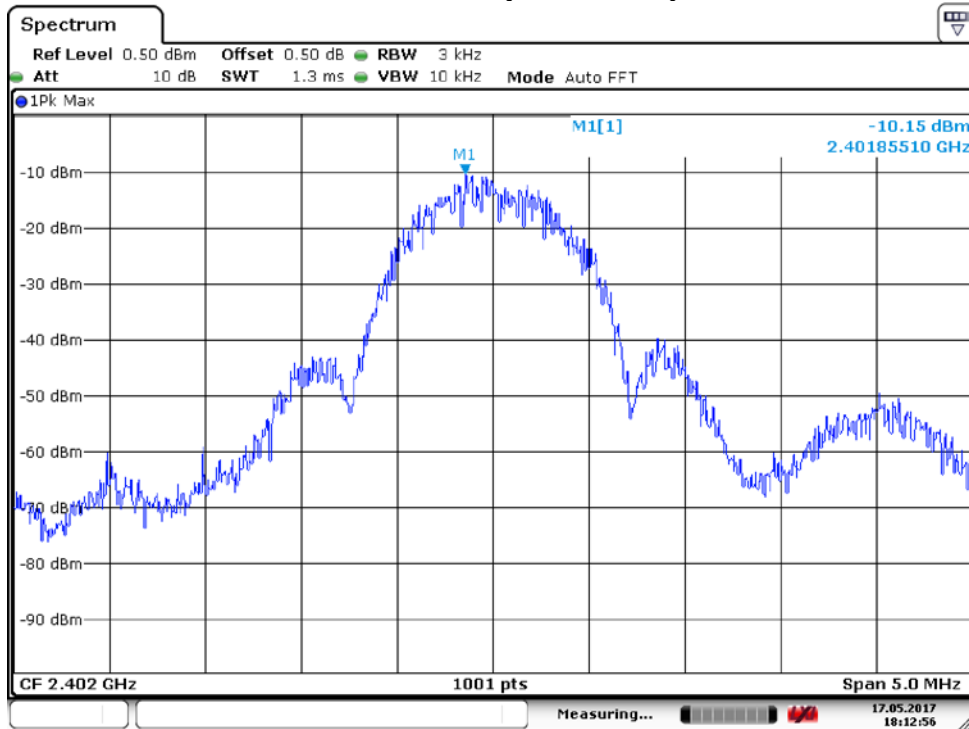
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#### **Test Data :**

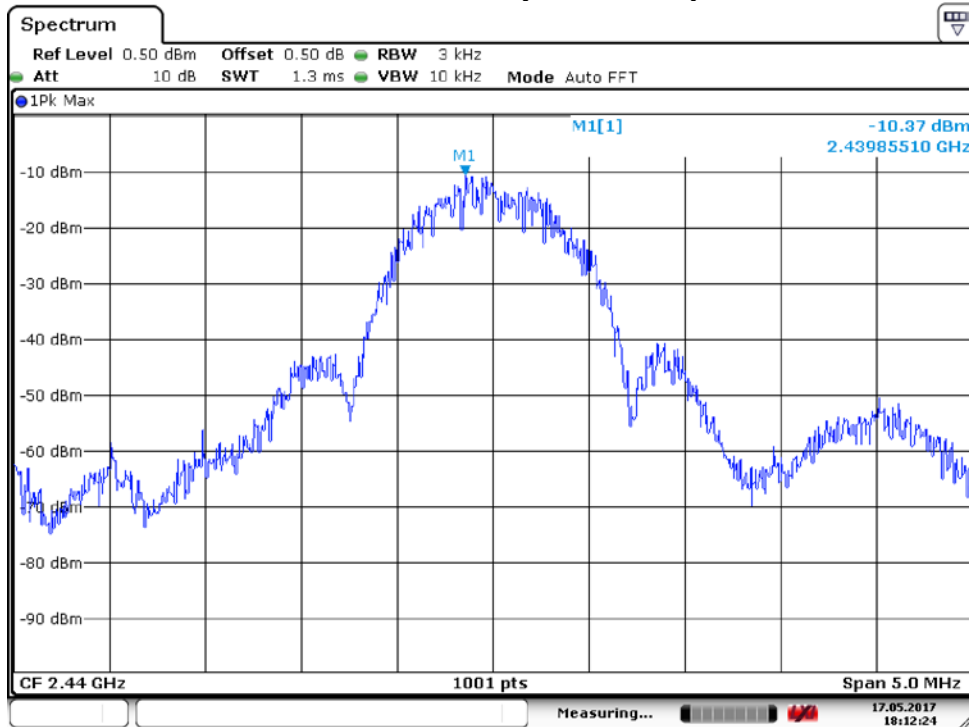
Frequency (MHz)	Power Spectral Density	
	dBm	Result
2 402	-10.15	Complies
2 440	-10.37	Complies
2 480	-8.62	Complies

See next pages for actual measured spectrum plots.

### Low channel (2 402 MHz)



### Middle channel (2 440 MHz)

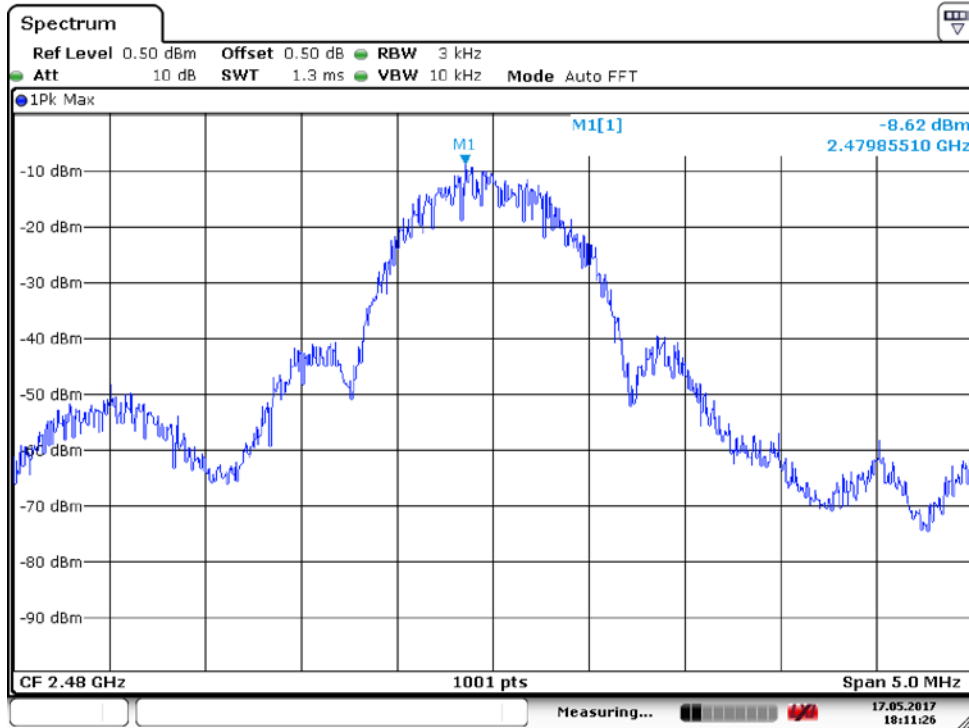




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### High channel (2 480 MHz)





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## 2.1.4 Band Edge & Conducted Spurious emission

### Test Procedures(ANSI C63.10-2013 11.11.3)

The Unwanted emission from the EUT were measured according to the dictates PKPSD measurement procedure in section 11.11 of ANSI C63.10-2013.

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the RF power that is produced 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 that the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of root-mean-square averaging over a time interval, as permitted under Section 5.4(4), the attenuation required shall be 30 dB instead of 20 dB. Attenuation below the general field strength limits specified in RSS-Gen is not required.

#### Test Settings:

Center frequency = the highest, middle and the lowest channels

- a) RBW = 100 kHz
- b) VBW  $\geq 3 \times$  RBW
- c) Detector = peak
- d) Sweep time = auto couple
- e) Trace mode= max hold
- f) Allow trace to fully stabilize
- g) Use the peak marker function to determine the maximum amplitude level.

#### **Limit :**

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Emission level < 20 dBc

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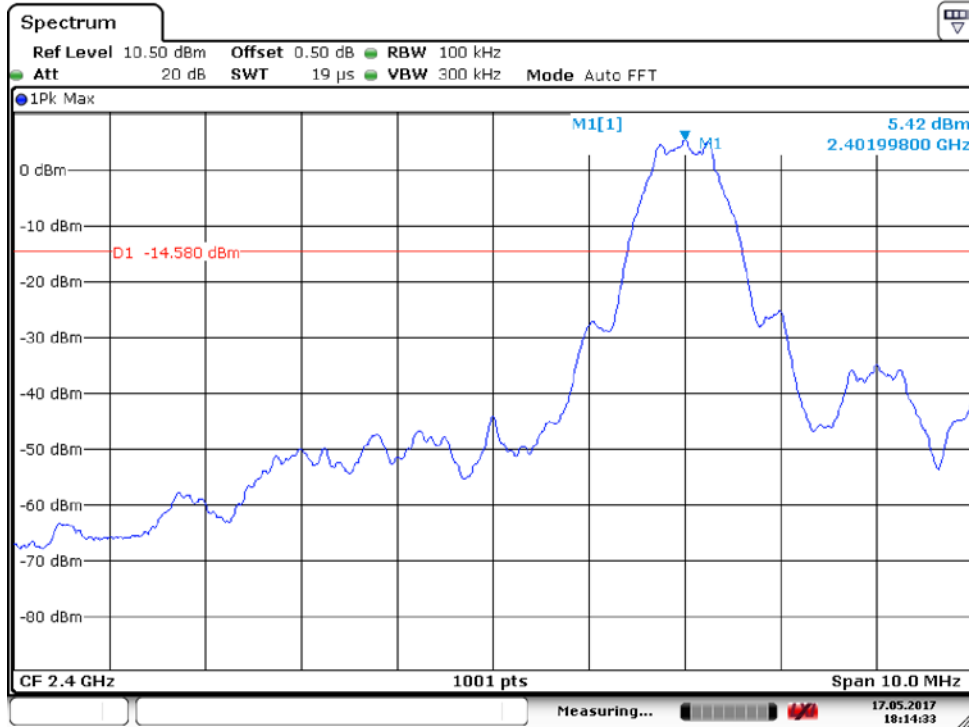
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#### **Test results: Complies**

- All conducted emission in any 100kHz bandwidth outside of the spread spectrum band was at least 20dB lower than the highest in-band spectral density. Therefore the applying equipment meets the requirement.

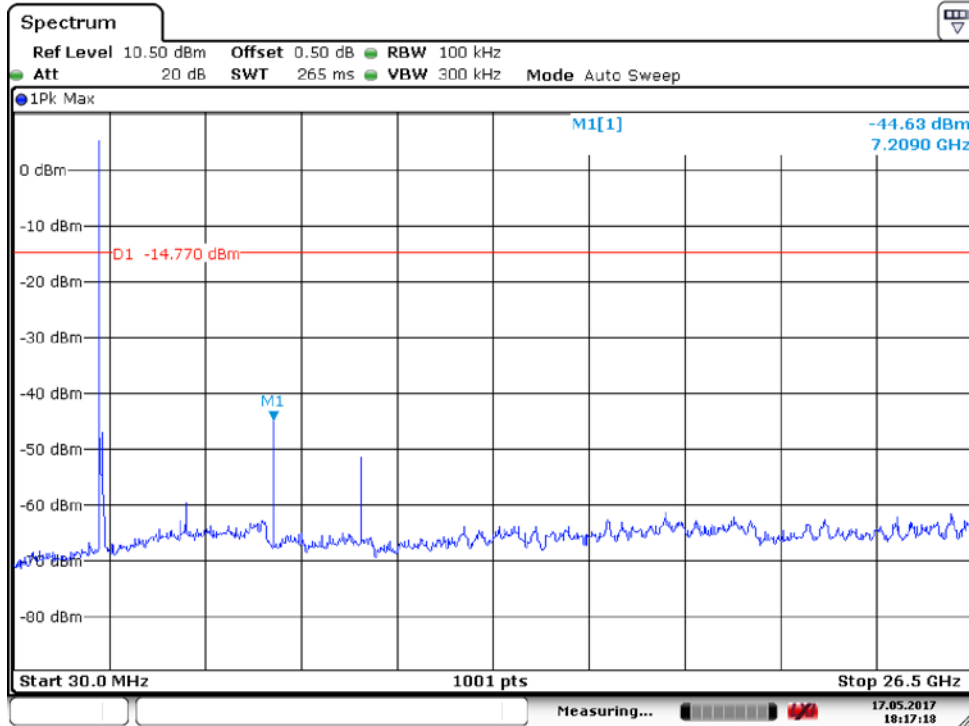
See next pages for actual measured spectrum plots.

### Band-edge

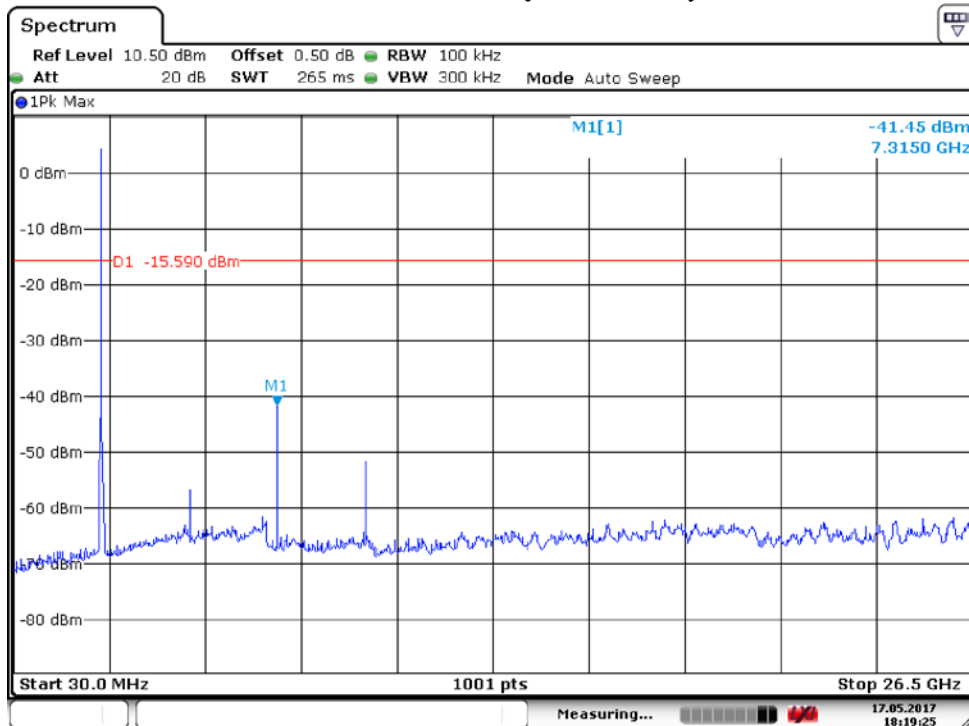


## Conducted Spurious emission

### Low channel (2 402 MHz)



### Middle channel (2 440 MHz)

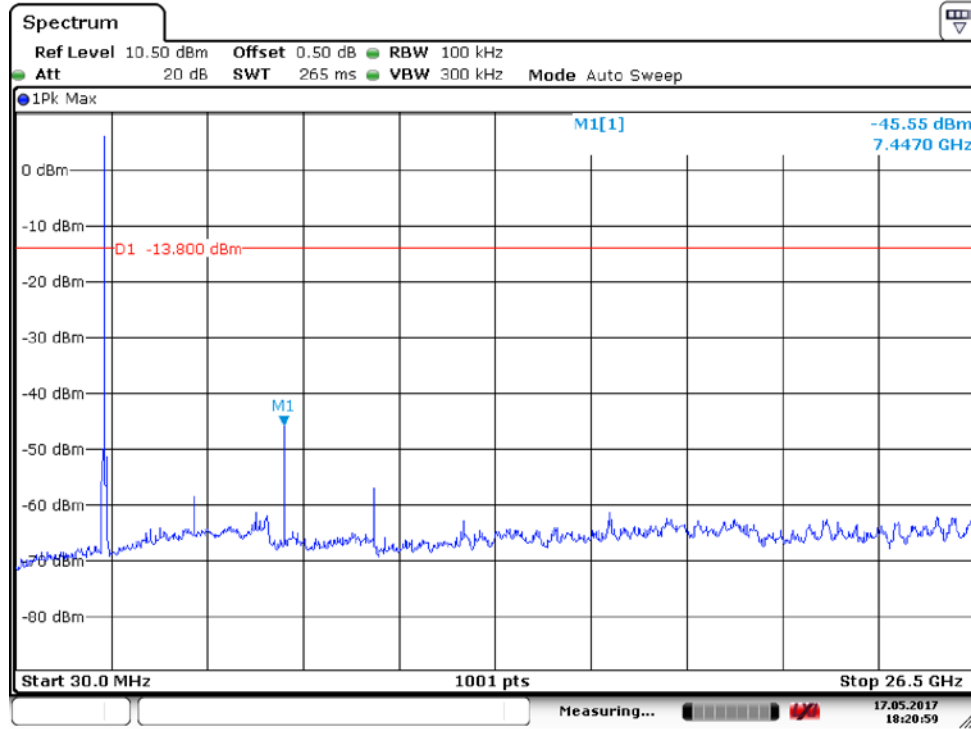




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### High channel (2 480 MHz)





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## 2.1.5 Field Strength of Harmonics

### Test Location

- 10 m SAC (test distance :  10 m,  3 m)  
 3 m SAC (test distance : 3 m)

### Test Procedures

- 1) Where floor-standing equipment is not typically installed with its base in direct electrical contact with, or connected to, a metal floor or grid, the EUT shall not be placed in direct electrical contact with the test site (or turntable) reference ground plane. If necessary to prevent direct metallic contact of the EUT and the reference ground plane, insulating material (up to 12 mm thick) shall be placed under the EUT.
- 2) In the frequency range of 9 kHz to 30 MHz, magnetic field is measured with Loop Antenna. The center of the Loop Test Antenna is 1m above the ground. During the measurement the Loop Test Antenna rotates about its vertical axis for maximum response at each azimuth about the EUT.
- 3) In the frequency range above 30 MHz, Bi-Log Test Antenna(30 MHz to 1 GHz) and Horn Test Antenna(above 1 GHz) are used. Test Antenna is 3m away from the EUT. Test Antenna height is carried from 1m to 4m above the ground to determine the maximum value of the field strength. The emissions levels at both horizontal and vertical polarizations should be tested.

### Test Settings:

Frequency Range = 9 kHz ~ 25 GHz (2.4 GHz 10<sup>th</sup> harmonic)

- a) RBW = 1 MHz for  $f \geq 1$  GHz, 100 kHz for  $f < 1$  GHz, 9 kHz for  $f < 30$  MHz
- b) VBW  $\geq$  RBW
- c) Sweep time = auto couple





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**Limit :**

FCC Part 15 § 15.205 (a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	MHz	MHz	GHz
0.09-0.11	8.37626-8.38675	73-74.6	399.9-410	2690-2900	10.6-12.7
<sup>1</sup> 0.495-0.505	8.41425-8.41475	74.8-75.2	608-614	3260-3267	13.25-13.4
2.1735-2.1905	12.29-12.293	108-121.94	960-1240	3332-3339	14.47-14.5
4.125-4.128	12.51975-12.52025	123-138	1300-1427	3345.8-3358	15.35-16.2
4.17725-4.17775	12.57675-12.57725	149.9-150.05	1435-1626.5	3600-4400	17.7-21.4
4.20725-4.20775	13.36-13.41	156.52475-156.52525	1645.5-1646.5	4500-5150	22.01-23.12
6.215-6.218	16.42-16.423	156.7-156.9	1660-1710	5350-5460	23.6-24
6.26775-6.26825	16.69475-16.69525	162.0125-167.17	1718.8-1722.2	7250-7750	31.2-31.8
6.31175-6.31225	16.80425-16.80475	167.72-173.2	2200-2300	8025-8500	36.43-36.5
8.291-8.294	25.5-25.67	240-285	2310-2390	9000-9200	<sup>2</sup> Above 38.6
8.362-8.366	37.5-38.25	322-335.4	2483.5-2500	9300-9500	

<sup>1</sup> Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

<sup>2</sup> Above 38.6

§ 15.205 (b) Except as provided in paragraphs (d) and (e), the field strength of emissions appearing within these frequency bands shall not exceed the limits shown in Section 15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in Section 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000 MHz, compliance with the emission limits in Section 15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in Section 15.35 apply to these measurements.



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FCC Part 15 § 15.209 (a) Except as provided elsewhere in this Subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table :

Frequency(MHz)	Field Strength uV/m@3m	Field Strength dBuV/m@3m	Deasurement Distance (meters)
0.009-0.490	2400/F(kHz)	-	300
0.490-1.705	24000/F(kHz)	-	30
1.705-30	30	-	30
30-88	100**	40	3
88-216	150**	43.5	3
216-960	200**	46	3
Above 960	500	54	3

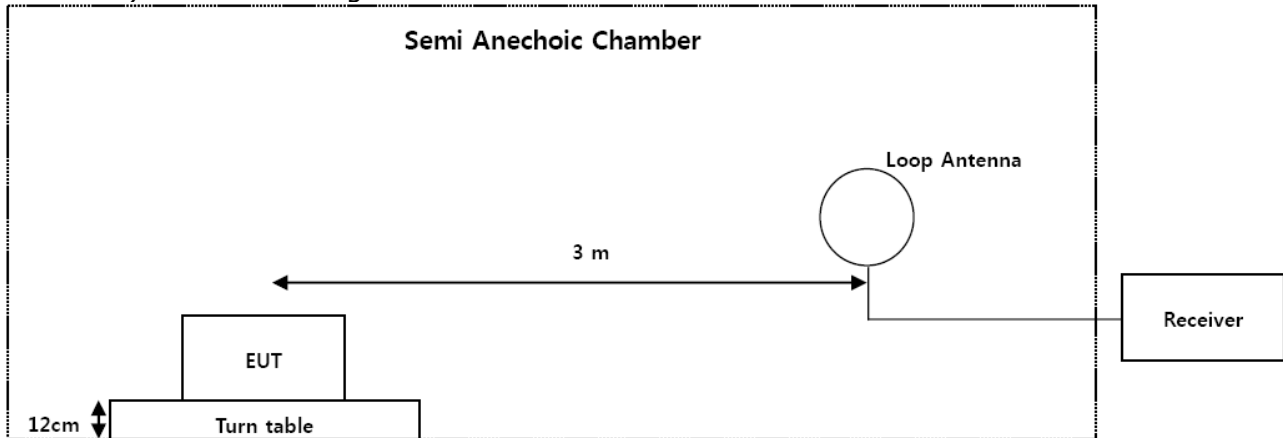
\*\* Except as provided in 15.209(g).fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54-72MHz, 76-88MHz, 174-216MHz, 470-806MHz. However, operation within these frequency bands is permitted under other sections of this Part, e.g.15.231 and 15.241.

Note :

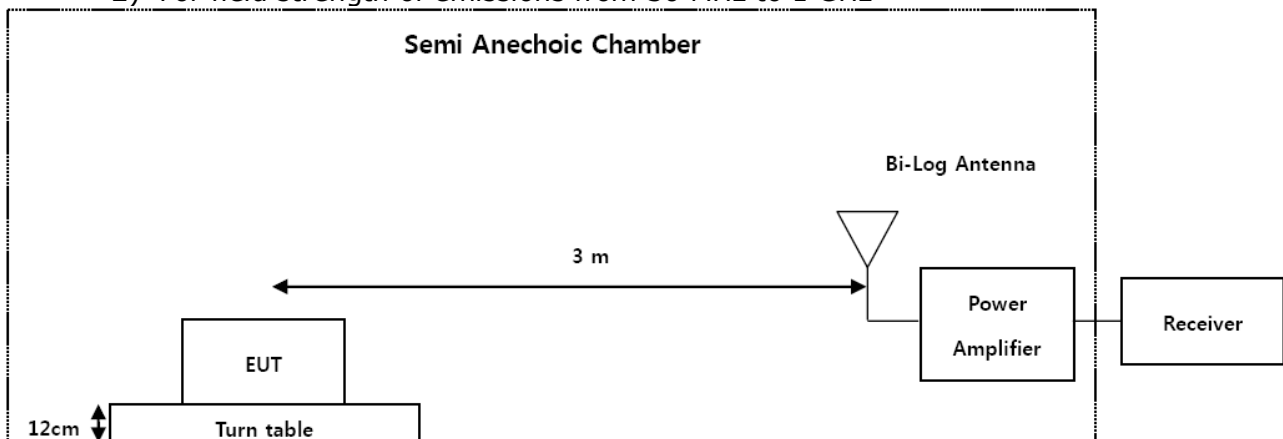
- 1) For above 1 GHz, the emission limit in this paragraph is based on measurement instrumentation employing an average detector, measurement using instrumentation with a peak detector function, corresponding to 20 dB above the maximum permitted average limit.
- 2) For above 1 GHz, limit field strength of harmonics : 54 dBuV/m@3m (AV) and 74 dBuV/m@3m (PK)
- 3) For measurement above 1GHz, the resolution bandwidth is set to 1 MHz and video bandwidth is set to 1 MHz for peak measurement and 10 Hz for average measurement.(Duty Cycle is > 98%,)
- 4) Duty Cycle is < 98%, VBW setting will need to > 1/T.

### Test Setup:

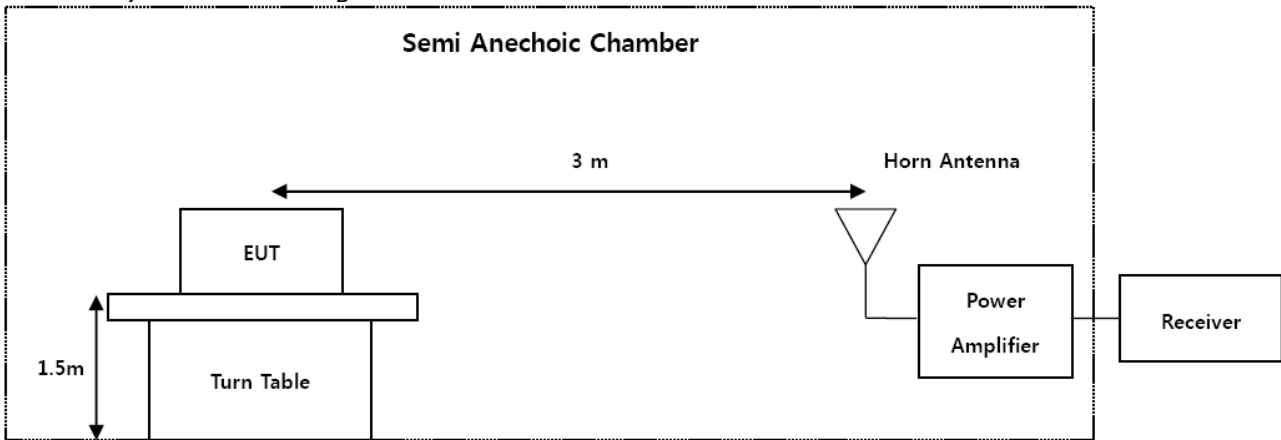
- 1) For field strength of emissions from 9 kHz to 30 MHz



- 2) For field strength of emissions from 30 MHz to 1 GHz



3) For field strength of emissions above 1 GHz



**Test results**

**1) 9 kHz to 30 MHz**

EUT	Cleaning Robot	Measurement Detail	
Model	YCR-M08-10	Frequency Range	9 kHz – 30 MHz
Test mode	Continuous modulated carrier	Detector function	Quasi-Peak

The requirements are:

Complies

Frequency (MHz)	Measured Data (dBuV/m)	Margin (dB)	Remark
-	-	-	See note

**Note :**

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

Distance extrapolation factor =  $40 \log (\text{specific distance} / \text{test distance})$  (dB)

## 2) 30 MHz to 1 GHz

### Test mode : Transmit, Low Channel(Worst Case)

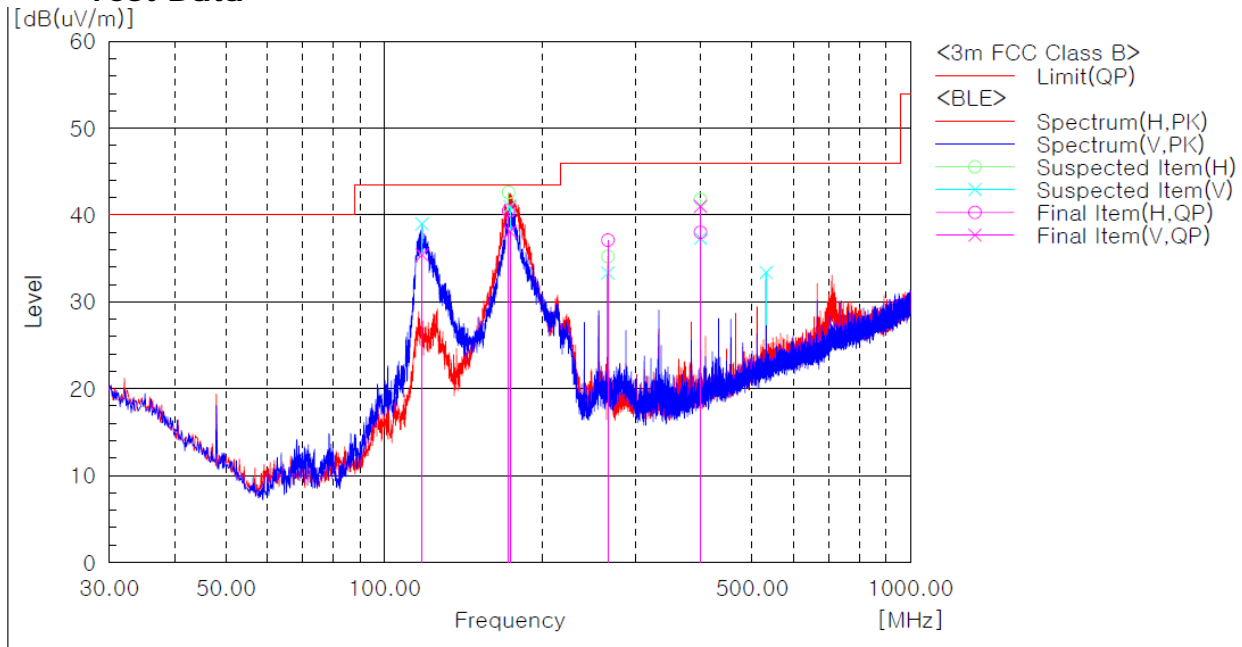
EUT	Cleaning Robot	Measurement Detail	
Model	YCR-M08-10	Frequency Range	Below 1 000MHz
Mode	Transmit, Low Channel	Detector function	Quasi-Peak

The requirements are:

Complies

Frequency (MHz)	Measured Data (dBUV/m)	Margin (dB)	Remark
172.348	40.5	3.0	Quasi-Peak

### Test Data



### Final Result

No.	Frequency [MHz]	(P)	Reading QP [dB(uV)]	c.f [dB(1/m)]	Result QP [dB(uV/m)]	Limit QP [dB(uV/m)]	Margin QP [dB]	Height [cm]	Angle [deg]
1	117.906	V	47.5	-12.1	35.4	43.5	8.1	100.0	90.0
2	172.348	H	54.4	-13.9	40.5	43.5	3.0	300.0	85.0
3	173.439	V	52.1	-14.0	38.1	43.5	5.4	100.0	64.0
4	266.074	H	46.7	-9.6	37.1	46.0	8.9	399.0	169.0
5	398.964	H	43.7	-5.7	38.0	46.0	8.0	200.0	274.0
6	398.964	V	46.7	-5.7	41.0	46.0	5.0	100.0	195.0

### Remark :

1. The Unwanted emission was measured in the following position: EUT stand-up position(Z axis), lie-down position(X,Y axis). The worst emission was found in stand-up position(X axis) and the worst case was recorded.
2. Result = Reading + Correction factor
3. Correction factor = Antenna factor + Cable loss + 6 dB attenuator - Amp Gain



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### 3) above 1 GHz

#### Test mode : Transmit

EUT	Cleaning Robot	Measurement Detail	
Model	YCR-M08-10	Frequency Range	1-25GHz
		Detector function	Average / Peak

#### Remarks

We have tested three mode (X, Y, Z). The worst mode (X axis) for final test.

The requirements are:

Complies

Frequency (MHz)	Measured Data (dBuV/m)	Margin (dB)	Remark
4804.00	47.60	6.40	Average

#### Test Data

Low(2 402 MHz)

Frequency [MHz]	(P)	Limit AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Level AV [dB(uV/m)]	Level PK [dB(uV/m)]	Margin AV [dB]	Margin PK [dB]
2498.00	H	54.00	74.00	35.91	42.50	18.09	31.50
4804.00	H	54.00	74.00	47.60	52.22	6.40	21.78
4804.00	V	54.00	74.00	45.65	50.80	8.35	23.20
7206.00	H	54.00	74.00	44.07	51.49	9.93	22.51
7206.00	V	54.00	74.00	43.56	52.23	10.44	21.77

Mid(2 440 MHz)

Frequency [MHz]	(P)	Limit AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Level AV [dB(uV/m)]	Level PK [dB(uV/m)]	Margin AV [dB]	Margin PK [dB]
2488.00	H	54.00	74.00	41.67	46.14	12.33	27.86
2488.00	V	54.00	74.00	38.56	44.32	15.44	29.69
4880.00	H	54.00	74.00	42.80	49.90	11.20	24.10
4880.00	V	54.00	74.00	46.14	50.89	7.86	23.11
7320.00	H	54.00	74.00	45.96	54.01	8.04	19.99
7320.00	V	54.00	74.00	47.25	54.34	6.76	19.66



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High(2 480 MHz)

Frequency [MHz]	(P)	Limit AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Level AV [dB(uV/m)]	Level PK [dB(uV/m)]	Margin AV [dB]	Margin PK [dB]
2528.00	H	54.00	74.00	39.33	44.96	14.67	29.04
2528.00	V	54.00	74.00	36.79	43.00	17.21	31.00
2483.50	H	54.00	74.00	41.52	51.47	12.48	22.53
2483.50	V	54.00	74.00	38.64	48.58	15.36	25.42
4960.00	H	54.00	74.00	46.60	51.10	7.40	22.90
4960.00	V	54.00	74.00	41.60	47.63	12.40	26.37
7440.00	H	54.00	74.00	42.78	50.85	11.22	23.15
7440.00	V	54.00	74.00	42.58	50.92	11.42	23.09



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## 2.1.6 AC Conducted Emissions

### Frequency Range of Measurement

150 kHz to 30 MHz

### Instrument Settings

IF Band Width: 9 kHz

### Test Procedures

Module has been tested by mounting the End product(Printer).

The EUT was placed on a non-metallic table 0.8m above the metallic, grounded floor and 0.4m from the reference ground plane wall. The distance to other metallic surfaces was at least 0.8m.

Amplitude measurements were performed with a quasi-peak detector and an average detector.

### Limit

- 15.207(a)

Frequency (MHz)	Conducted Limit (dBuV)	
	Quasi-peak	Average
0.15 ~ 0.5	66 to 56*	56 to 46*
0.5 ~ 5	56	46
5 ~ 30	60	50

\* Decreases with the logarithm of the frequency.

### Test Data

The requirements are:

**Complies**

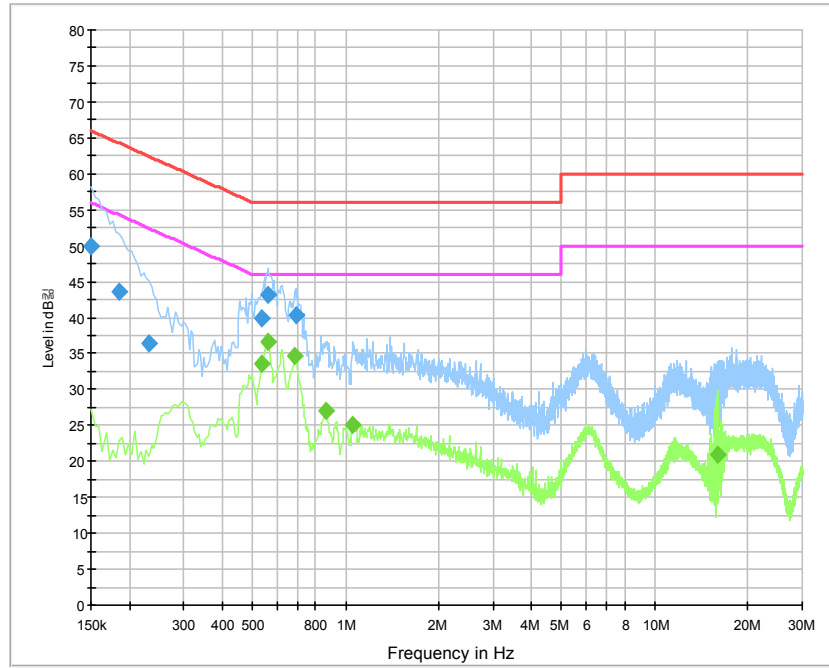
Frequency (MHz)	Measured Data (dBuV)	Margin (dB)	Remark
0.559 500	38.1	7.9	Average



## Test Data

### [LINE]

Class B\_L1



### Final Result 1

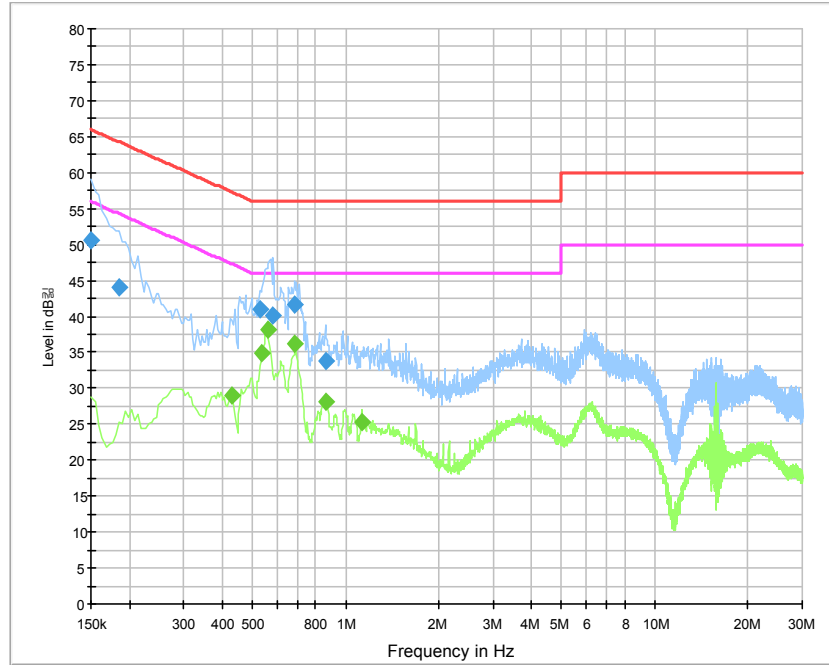
Frequency (MHz)	QuasiPeak (dBuV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.150000	49.9	1000.0	9.000	On	L1	9.7	16.1	66.0
0.186000	43.6	1000.0	9.000	On	L1	9.9	20.6	64.2
0.231000	36.3	1000.0	9.000	On	L1	9.7	26.1	62.4
0.532500	40.0	1000.0	9.000	On	L1	9.9	16.0	56.0
0.564000	43.2	1000.0	9.000	On	L1	9.9	12.8	56.0
0.690000	40.3	1000.0	9.000	On	L1	9.8	15.7	56.0

### Final Result 2

Frequency (MHz)	CAverage (dBuV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.532500	33.6	1000.0	9.000	On	L1	9.9	12.4	46.0
0.564000	36.7	1000.0	9.000	On	L1	9.9	9.3	46.0
0.685500	34.7	1000.0	9.000	On	L1	9.8	11.3	46.0
0.865500	27.0	1000.0	9.000	On	L1	9.8	19.0	46.0
1.054500	25.0	1000.0	9.000	On	L1	9.7	21.0	46.0
15.900000	21.0	1000.0	9.000	On	L1	9.9	29.0	50.0

**[NEUTRAL]**

Class B\_N



**Final Result 1**

Frequency (MHz)	QuasiPeak (dBuV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.150000	50.7	1000.0	9.000	On	N	9.8	15.3	66.0
0.186000	44.0	1000.0	9.000	On	N	9.9	20.2	64.2
0.528000	41.1	1000.0	9.000	On	N	9.9	14.9	56.0
0.582000	40.1	1000.0	9.000	On	N	9.9	15.9	56.0
0.685500	41.6	1000.0	9.000	On	N	9.8	14.4	56.0
0.861000	33.9	1000.0	9.000	On	N	9.8	22.1	56.0

**Final Result 2**

Frequency (MHz)	CAverage (dBuV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.429000	29.0	1000.0	9.000	On	N	9.9	18.3	47.3
0.532500	34.9	1000.0	9.000	On	N	9.9	11.1	46.0
0.559500	38.1	1000.0	9.000	On	N	9.9	7.9	46.0
0.685500	36.1	1000.0	9.000	On	N	9.8	9.9	46.0
0.861000	28.1	1000.0	9.000	On	N	9.8	17.9	46.0
1.126500	25.4	1000.0	9.000	On	N	9.8	20.6	46.0



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## APPENDIX A – Test Equipment Used For Tests

	Name of Equipment	Manufacturer	Model No.	Serial No.	Date of Calibration	Due Date
1	Signal Analyzer	Agilent	N9020A	MY48011598	2016-11-01	2017-11-01
2	Signal Analyzer	R&S	FSV30	100925	2017-02-02	2018-02-02
3	Signal Generator	Rohde & Schwarz	SMB100A	175528	2016-11-01	2017-11-01
4	EMI Test Receiver	Rohde & Schwarz	ESCI7	100814	2016-11-01	2017-11-01
5	Bilog Antenna	Schaffner	CBL6111C	2551	2016-05-13	2018-05-13
6	Active Loop Antenna	SCHWARZBECK	FMZB 1513	1513-126	2016-05-25	2018-05-25
7	6dB Attenuator	R&S	DNF	272.4110.50-2	2016-11-01	2017-11-01
8	6dB Attenuator	R&S	DNF	272.4110.50-1	2017-02-03	2018-02-03
9	AMPLIFIER	SONOMA	310	291721	2017-02-02	2018-02-02
10	LISN	Rohde & Schwarz	ENV216	101760	2017-02-03	2018-02-03
11	EMI Test Receiver	Rohde & Schwarz	ESU40	100336	2017-05-12	2018-05-12
12	Preamplifier	Agilent	8449B	3008A02011	2016-12-01	2017-12-01
13	Horn Antenna	ETS-Lindgren	3115	00078894	2015-09-02	2017-09-02
14	Horn Antenna	ETS-Lindgren	3116	00062504	2015-09-04	2017-09-04
15	Horn Antenna	ETS-Lindgren	3117	00154525	2015-09-02	2017-09-02
16	Active Loop Antenna	SCHWARZBECK	FMZB 1513	1513-125	2017-05-16	2018-05-16
17	Band Reject Filter	Micro Tronics	BRM50702	G233	2017-02-03	2018-02-03