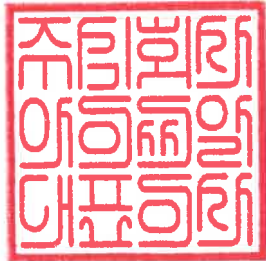




# 시험 성적서 TEST REPORT

페이지(page) : ( 1 ) / 총(Total) 35 )

성적서 번호 Report No.		ICRT-TR-E221605-0A	
신청자 Client	기관명 Name	AISOLUTION CO., LTD	
	주소 Address	28-4, Samyang-ro 29gil, Gangbuk-gu, Seoul, 01194, Republic of Korea	
시험대상품목 Sample description		KDC280 Bluetooth Barcode Scanner	
모델명 Type designation		KDC280	
정격 Ratings		DC 3.7 V	
시험장소 Place of test		<input checked="" type="checkbox"/> 고정시험(Inside test) <input type="checkbox"/> 현장시험(Field test) 주소지(Address): 112, Hwanggeum 3-ro 7beon-gil, Hagun-ri, Yangchon-eup, Gimpo-si, Gyeonggi-do, Korea	
시험기간 Date of test		17. Jun. 2022 ~ 28. Jun. 2022	
시험방법/항목 Test Method/Item		FCC Part 15 Subpart C §15.247	
시험결과 Test Results		Refer to 3. Test Summary	
확인 Affirmation	작성자 Tested by	기술책임자 Technical Manager	
	성명 Name	성명 Name	성명 Name
	Yeong-Hwan, Hong (서명)	Min-Gi, Son (서명)	(서명)
<input type="checkbox"/> 위 성적서는 고객이 제공한 시료에 대한 시험결과입니다. The above test report is certified that the above mentioned products have been tested for the sample.			
<input type="checkbox"/> 위 성적서는 KS Q ISO/IEC 17025 및 한국인정기구(KOLAS)인정과 관련이 없습니다. The above test report is not related to accreditation by KS Q ISO/IEC 17025 and Korea Laboratory Accreditation scheme.			
<input type="checkbox"/> 위 성적서는 주식회사 아이씨알의 승인 없이는 일부 복제에 대해 금지됩니다. The test report is prohibited for some reproduction without the approval of the ICR.			
<p>2022. 06. 29</p> <p><b>주식회사 아이씨알 대표이사</b></p> <p>The head of INTERNATIONAL CERTIFICATION REGISTRAR</p>			
			

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The authenticity of the test report can be checked on the G4B or ICR website.

경기도 김포시 양촌읍 황금3로7번길 112 / Tel: 02-6351-9001 ~ 6



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### Revision History

Issued Report No.	Issued Date	Revisions	Effect Section
ICRT-TR-E221605-0A	29-JUN-2022	Initial Issue	All



# **1. Applicant & Manufacturer & Test Laboratory Information**

## **1.1 Applicant information**

Applicant	AISOLUTION CO., LTD
Address	28-4, Samyang-ro 29gil, Gangbuk-gu, Seoul, 01194, Republic of Korea
Contact Person	Seoneyong Kim
Telephone No.	82-01-9876-3482
Fax No.	82-07-8260-3731
E-mail	seonyeong.kim@koamtac.com

## **1.2 Manufacturer Information**

Manufacturer	AISOLUTION CO., LTD
Address	28-4, Samyang-ro 29gil, Gangbuk-gu, Seoul, 01194, Republic of Korea

## **1.3 Test Laboratory Information**

Conducted tests were performed at	
Laboratory	ICR Co., Ltd.
Address	112, Hwanggeum 3-ro 7beon-gil, Hagun-ri, Yangchon-eup, Gimpo-si, Gyeonggi-do, Korea
Telephone No.	+82-2-6351-9002
Fax No.	+82-2-6351-9007
RRA No.	KR0165
KOLAS No.	KT652
Test Firm Registration Number	490614



## 2. Equipment under Test(EUT) Information

### 2.1 General Information

Product Name	KDC280 Bluetooth Barcode Scanner
Brand Name	KOAMTAC
Model Name	KDC280
Additional Model Name	-
FCC ID	VH9-KDC280
Hardware Version	1.0
Software Version	1.0
Power Supply	DC 3.7 V

### 2.2 Additional Information

Equipment Class	DTS-Digital Transmission System
Device Type	Stand-alone
Operating Frequency	2 402 MHz ~ 2 480 MHz
RF Output Power	-1.77 dBm
Number of Channel	40
Modulation Type	GFSK
Antenna Type	Chip Antenna
Antenna Gain	3.14 dBi
Antenna Operating Mode	Single Antenna Equipment with only one antenna
List of Each Oscillator or Crystal Frequency	32 MHz

### 2.3 Mode of operation during the test

- The EUT is continuous transmission mode during the test with set at Low Channel, Middle Channel, and High Channel. To get a maximum radiated emission levels from the EUT, the EUT was moved throughout the XY, YZ, XZ planes.

### 2.4 Modifications of EUT

- None



### 3. Test Summary

#### 3.1 Test standards and results

FCC Part 15 Subpart C			
Clause	Test items	Applied	Results
§15.247 (a) (2)	6 dB Bandwidth	<input checked="" type="checkbox"/>	PASS
§15.247 (b) (3)	Maximum Conducted Output Power	<input checked="" type="checkbox"/>	PASS
§15.247 (e)	Power Spectral Density	<input checked="" type="checkbox"/>	PASS
§15.247 (d)	Conducted Spurious Emission	<input checked="" type="checkbox"/>	PASS
§15.247 (d) & §15.209 & §15.205	Radiated Spurious Emission	<input checked="" type="checkbox"/>	PASS
§15.207	Power Line Conducted Emission	<input checked="" type="checkbox"/>	PASS
§15.203	Antenna Requirement	<input checked="" type="checkbox"/>	PASS

#### 3.2 Purpose of the test

- To determine whether the equipment under test fulfills the requirements of the standards stated in FCC Part 15 Subpart C Section 15.247.

#### 3.3 Test Methodology

Both conducted and radiated testing was performed according to the procedures in ANSI C63.10: 2013.

Radiated testing was performed at a distance of 3 m from EUT to the antenna.

#### 3.4 Configuration of Test System

##### 3.4.1 Radiated emission test

Preliminary radiated emissions test were conducted using the procedure in ANSI C63.10: 2013 to determine the worse operating conditions. Final radiated emission tests were conducted at 3 m Semi Anechoic Chamber. The turntable was rotated through 360 degrees and the EUT was tested by positioned three orthogonal planes to obtain the highest reading on the field strength meter. Once maximum reading was determined, the search antenna was raised and lowered in both vertical and horizontal polarization.

##### 3.4.2 AC power line conducted emission test

The EUT was connected to LISN. All supporting equipment were connected to another LISN. Preliminary Power line Conducted Emission test was performed by using the procedure in ANSI C63.10: 2013 to determine the worse operating conditions



### 3.5 Antenna requirement

According to §15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section.

The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

And according to §15.247(b)(4), the conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi.

Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

#### 3.5.1 Result: Pass

The transmitter has a **Chip Antenna**. The directional gain of the antenna is **3.14 dBi**.





#### 4. Used equipment on test

	Description	Model Name	Manufacturer	Serial Number	Next Cal. (cycle)
<input checked="" type="checkbox"/>	Spectrum analyzer	FSW85	R&S	101306	2023-03-02 (1Y)
<input checked="" type="checkbox"/>	Signal Generator	SMB100A	R&S	180607	2023-03-03 (1Y)
<input checked="" type="checkbox"/>	DC Power Supply	XDL 35-5P	Sorensen	J00385373	2023-03-03 (1Y)
<input checked="" type="checkbox"/>	10 dB Attenuator	WA54-10-11	Weinschel	-	2023-03-07 (1Y)
<input checked="" type="checkbox"/>	Loop Antenna	HFH2-Z2	Rohde & Schwarz	100506	2023-07-05 (2Y)
<input checked="" type="checkbox"/>	TRILOG BROADBAND ANTENNA	VULB9162	SCHWARZBECK	143	2022-12-08 (2Y)
<input checked="" type="checkbox"/>	RF Pre Amplifier	SCU08	Rohde & Schwarz	100747	2023-04-13 (1Y)
<input checked="" type="checkbox"/>	EMI Test Receiver	ESR7	Rohde & Schwarz	102034	2023-04-13 (1Y)
<input checked="" type="checkbox"/>	Horn Antenna	HF907	Rohde & Schwarz	102556	2022-08-18 (1Y)
<input checked="" type="checkbox"/>	RF Pre Amplifier	SCU18	Rohde & Schwarz	102342	2023-04-13 (1Y)
<input checked="" type="checkbox"/>	EMI Test Receiver	ESR26	Rohde & Schwarz	101462	2023-04-13 (1Y)
<input checked="" type="checkbox"/>	Horn Antenna	LB-42-10-C-KF	AIBFO Inc.	J202024625	2023-03-10 (1Y)
<input checked="" type="checkbox"/>	PreAmplifier	AMF-4F-18265-35-8P-1	MITEQ	771846	2023-03-07 (1Y)

※ All test equipment used is calibration on a regular basis.



## 5. 6 dB Bandwidth

### 5.1 Operating environment

Temperature : 23 °C

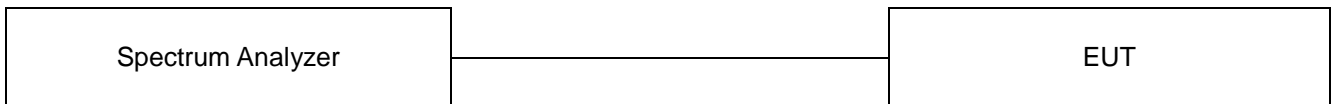
Relative humidity : 47 %

### 5.2 Measurement method

Standard : §15.247 (a) (2)

### 5.3 Test setup

The antenna output of the EUT was connected to the spectrum analyzer. The resolution bandwidth is set to 100 kHz, and peak detection was used. The 6 dB bandwidth is defined as the total spectrum over which the power is higher than the peak power minus 6 dB.





### 5.4 Test data

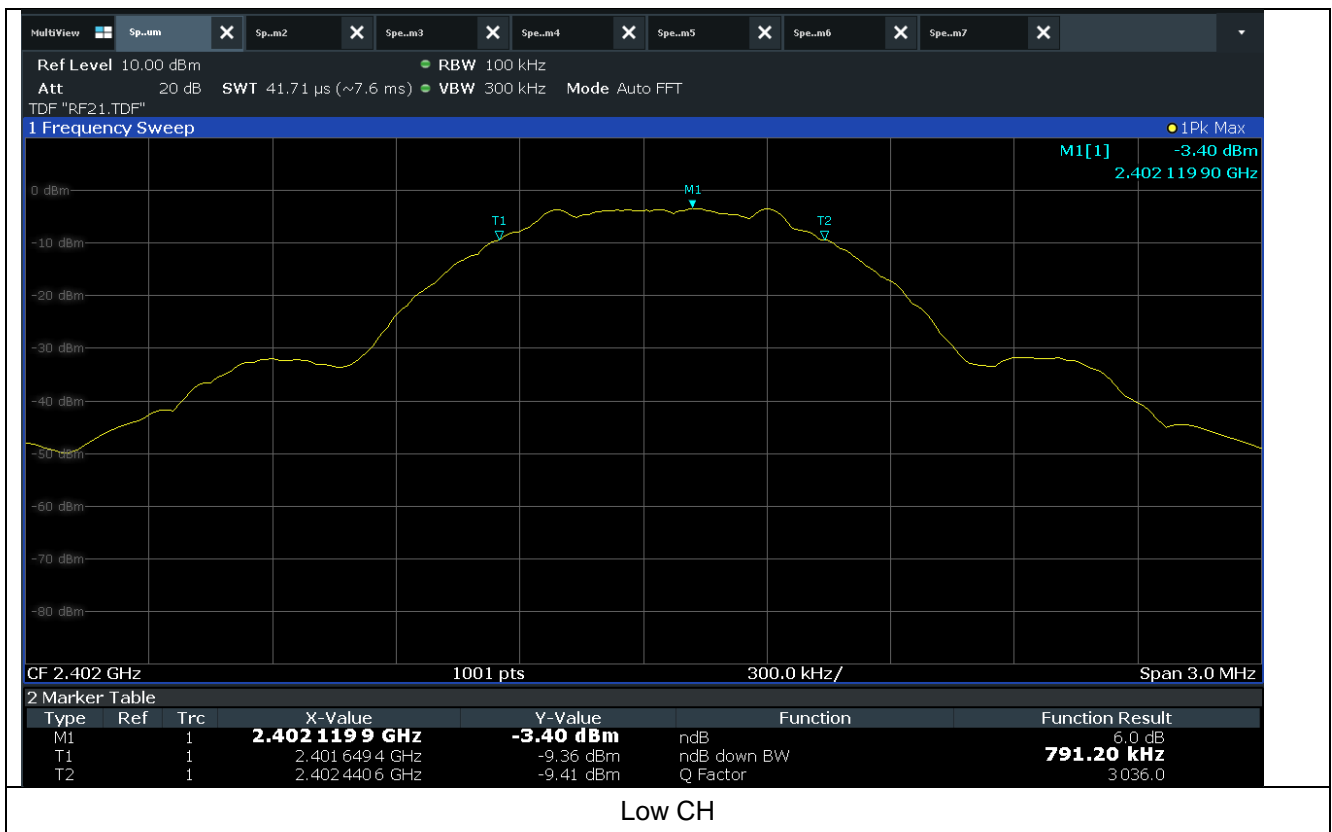
Operating mode : Transmit mode

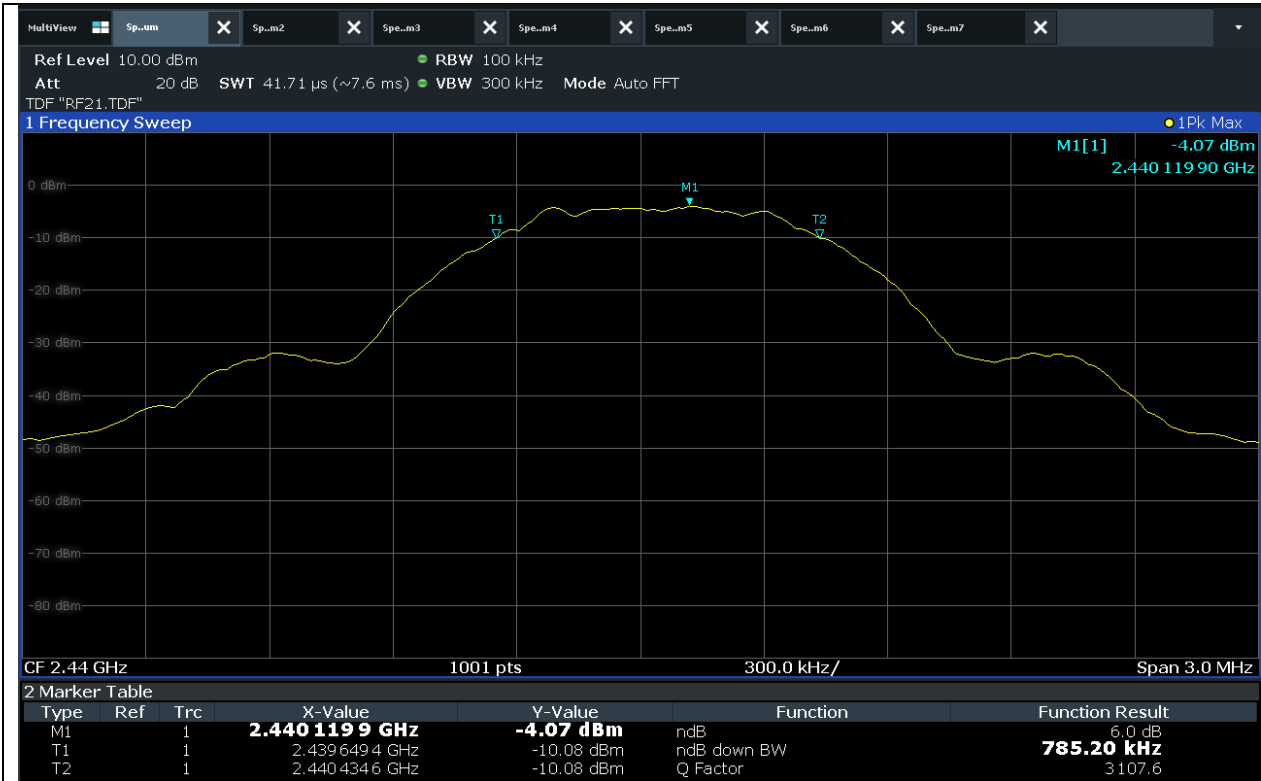
Test Result : Pass

#### 5.4.1 Measured Results

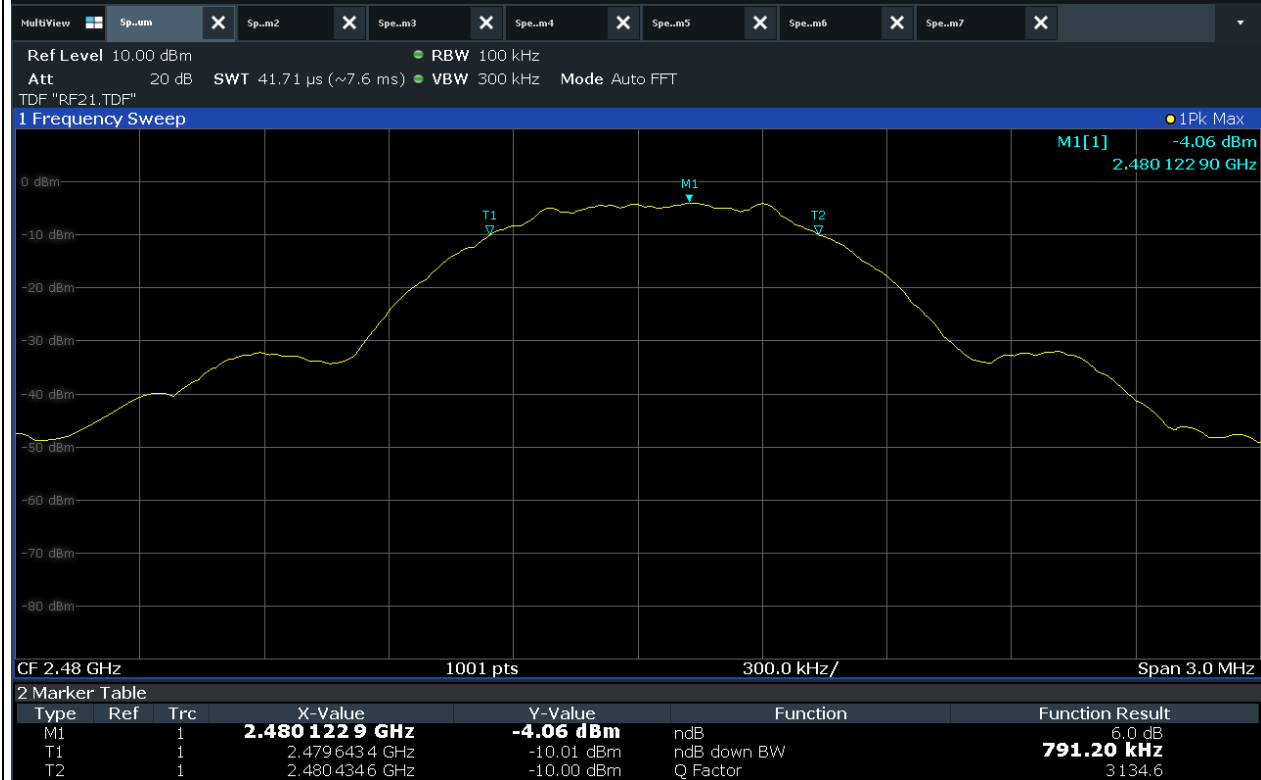
Modulation Type	Channel (Frequency)	Measured Value (kHz)	Limit (kHz)
Bluetooth LE	0 (2 402 MHz)	791.2	at least 500
	19 (2 440 MHz)	785.2	
	39 (2 480 MHz)	791.2	

#### 5.4.2 Measured Graph (6 dB Bandwidth)





Mid CH



High CH



## 6. Maximum Conducted Output Power

### 6.1 Operating environment

Temperature : 23 °C  
Relative humidity : 47 %

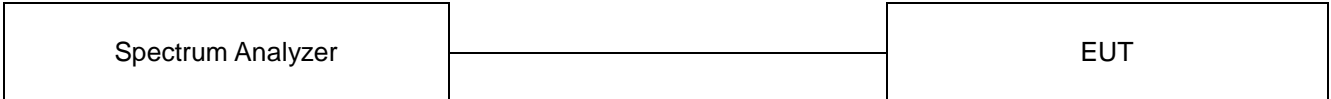
### 6.2 Measurement method

Standard : §15.247 (b) (3)

### 6.3 Test setup

The maximum peak output power was measured with the spectrum analyzer connected to the antenna output of the EUT. The spectrum analyzer's internal channel power integration function is used to integrate the power over a bandwidth greater than or equal to the 99 % bandwidth. The EUT was operating in transmit mode at the appropriate center frequency.

And e.i.r.p. is added antenna maximum gain with the Maximum Conducted Output Power.





### 6.4 Test data

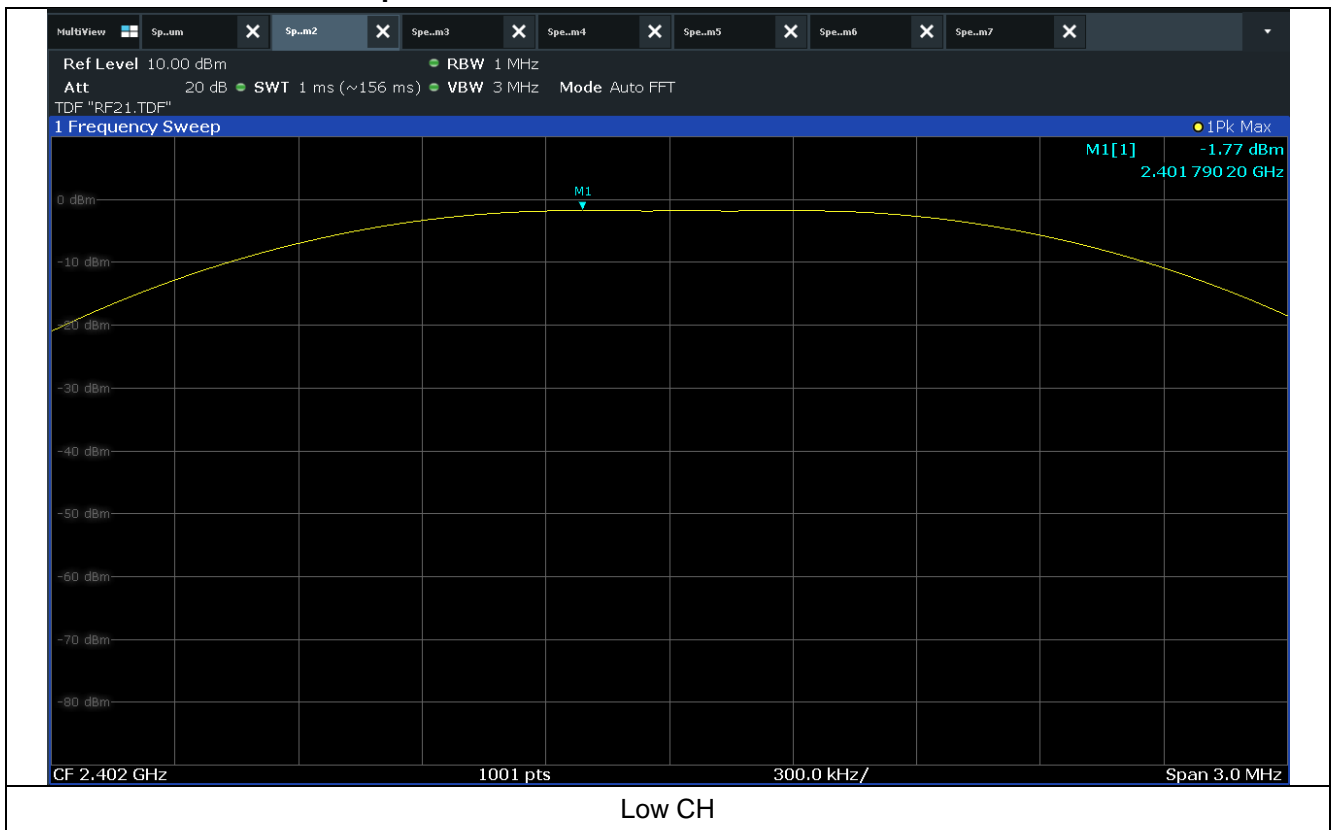
Operating mode : Transmit mode

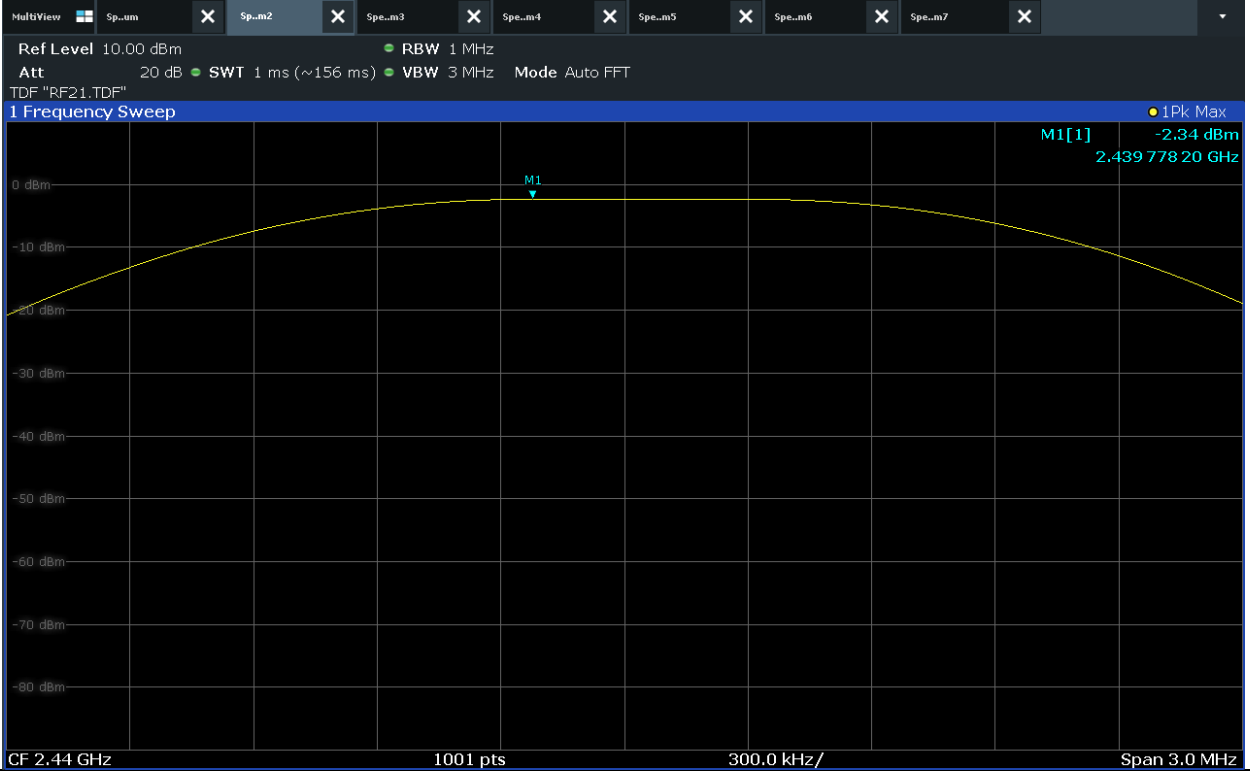
Test Result : Pass

#### 6.4.1 Measured Results

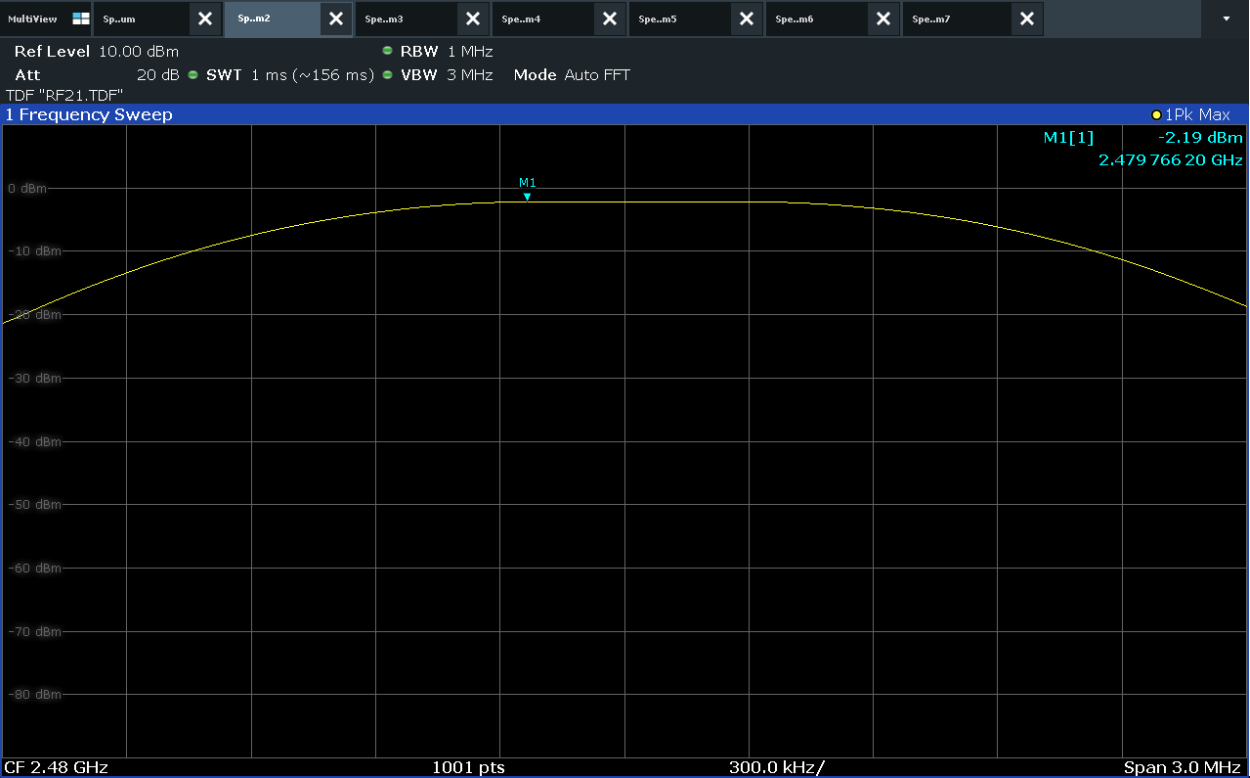
Modulation Type	Channel (Frequency)	Highest signal level (dBm)	Limit (dBm)
Bluetooth LE	0 (2 402 MHz)	-1.77	30 (1 Watt)
	19 (2 440 MHz)	-2.34	
	39 (2 480 MHz)	-2.19	

#### 6.4.2 Measured Graph





Mid CH



High CH



## 7. Power Spectral Density

### 7.1 Operating environment

Temperature : 23 °C

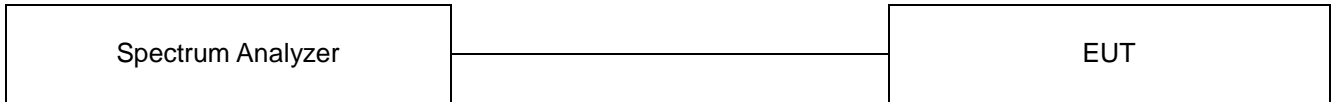
Relative humidity : 47 %

### 7.2 Measurement method

Standard : §15.247 (e)

### 7.3 Test setup

The antenna output of the EUT was connected to the spectrum analyzer. The resolution bandwidth is set to 3 kHz, the video bandwidth is set to 3 times the resolution bandwidth.







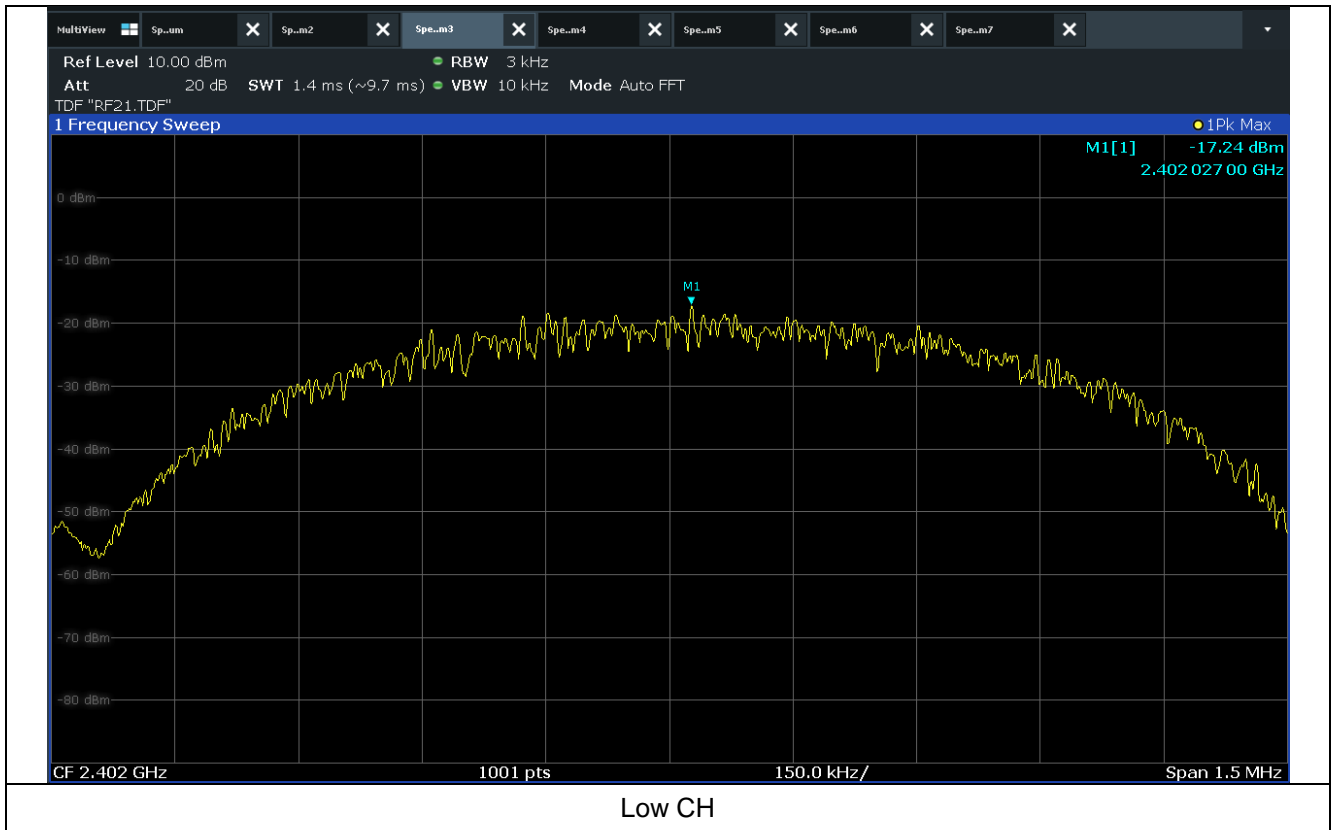
### 7.4 Test data

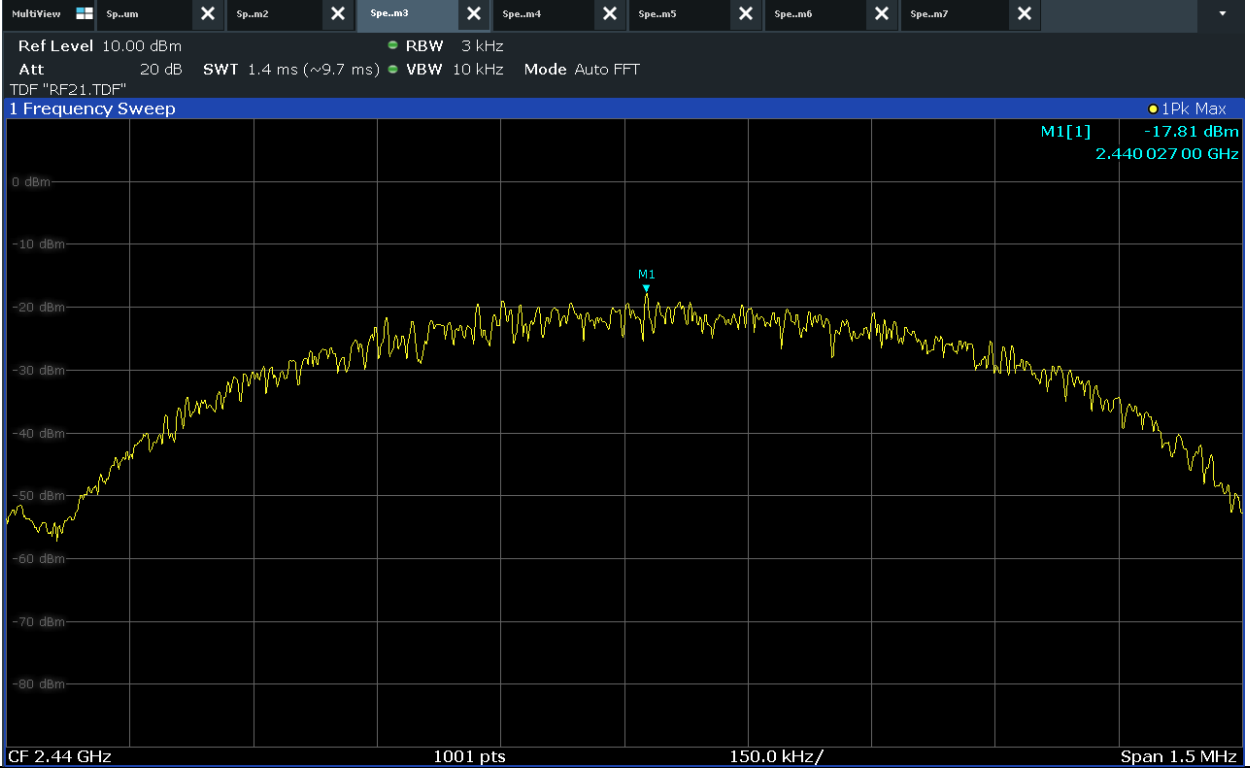
Operating mode : Transmit mode  
 Test Result : Pass

#### 7.4.1 Measured Results

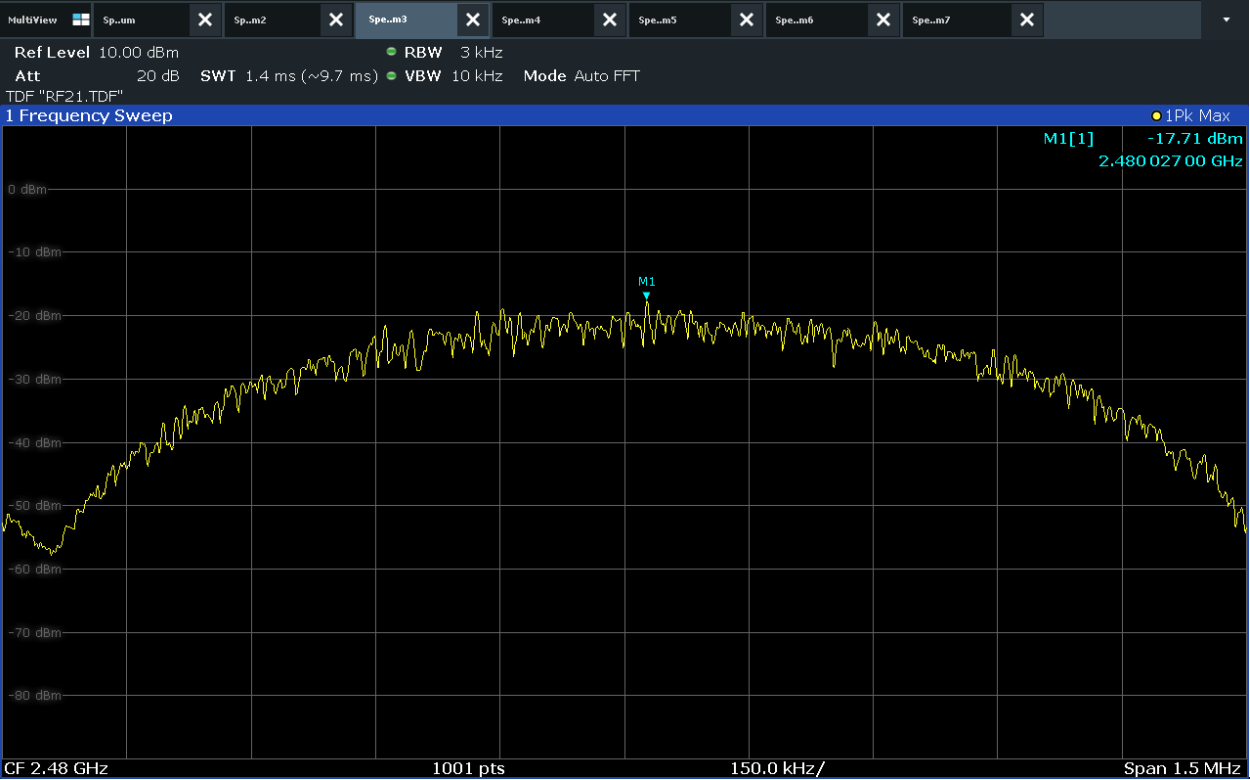
Modulation Type	Channel (Frequency)	Highest signal level (dBm)	Limit (dBm/3kHz)
Bluetooth LE	0 (2 402 MHz)	-17.24	8
	19 (2 440 MHz)	-17.81	
	39 (2 480 MHz)	-17.71	

#### 7.4.2 Measured Graph





Mid CH



High CH



## 8. Conducted Spurious Emission

### 8.1 Operating environment

Temperature : 23 °C

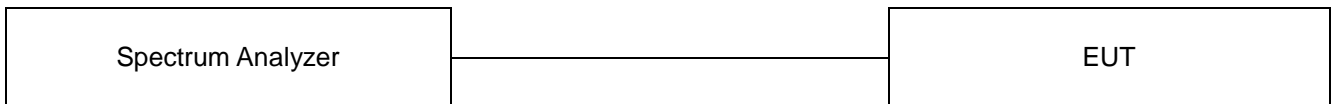
Relative humidity : 47 %

### 8.2 Measurement method

Standard : §15.247 (d)

### 8.3 Test setup

The antenna output of the EUT was connected to the spectrum analyzer. The resolution and video bandwidth is set to 100 kHz, and peak detection was used.





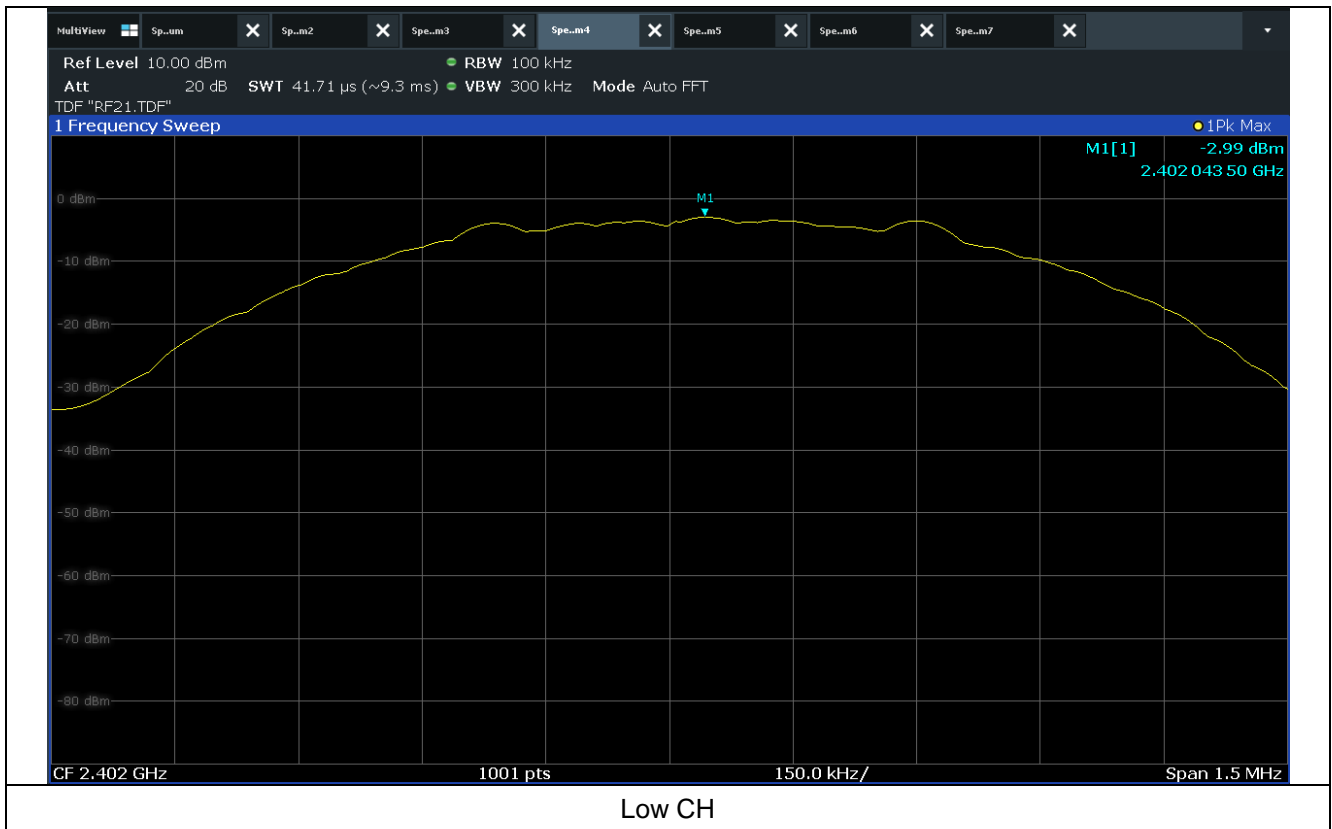
## 8.4 Test data

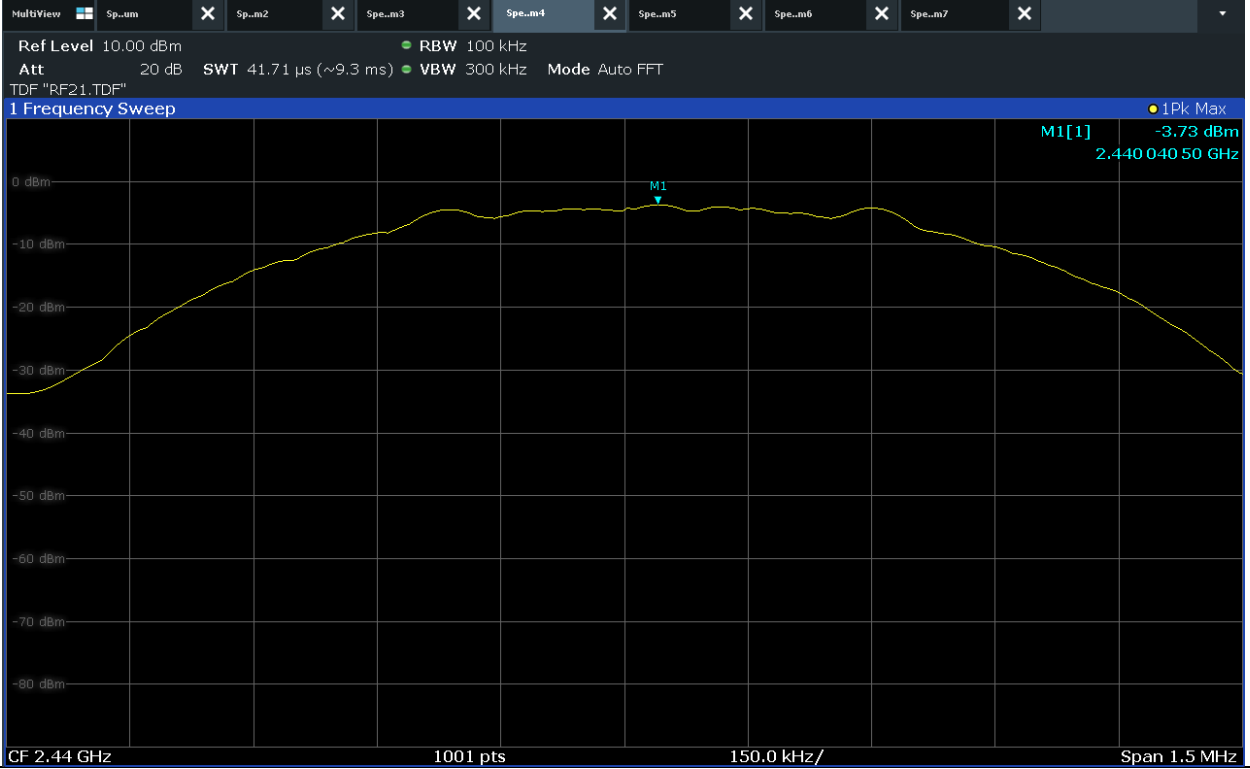
Operating mode : Transmit mode

Test Result : Pass

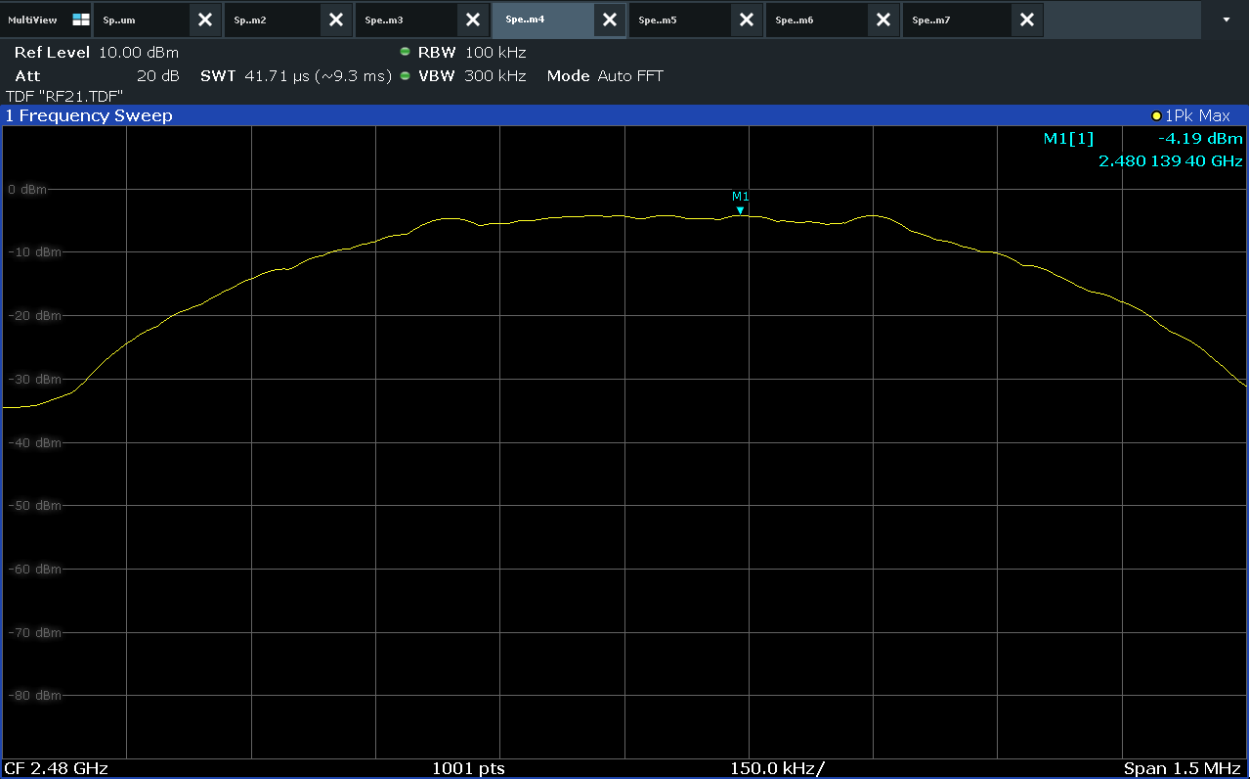
### 8.4.1 Measured Results

#### 8.4.1.1 Signal level (dB m)





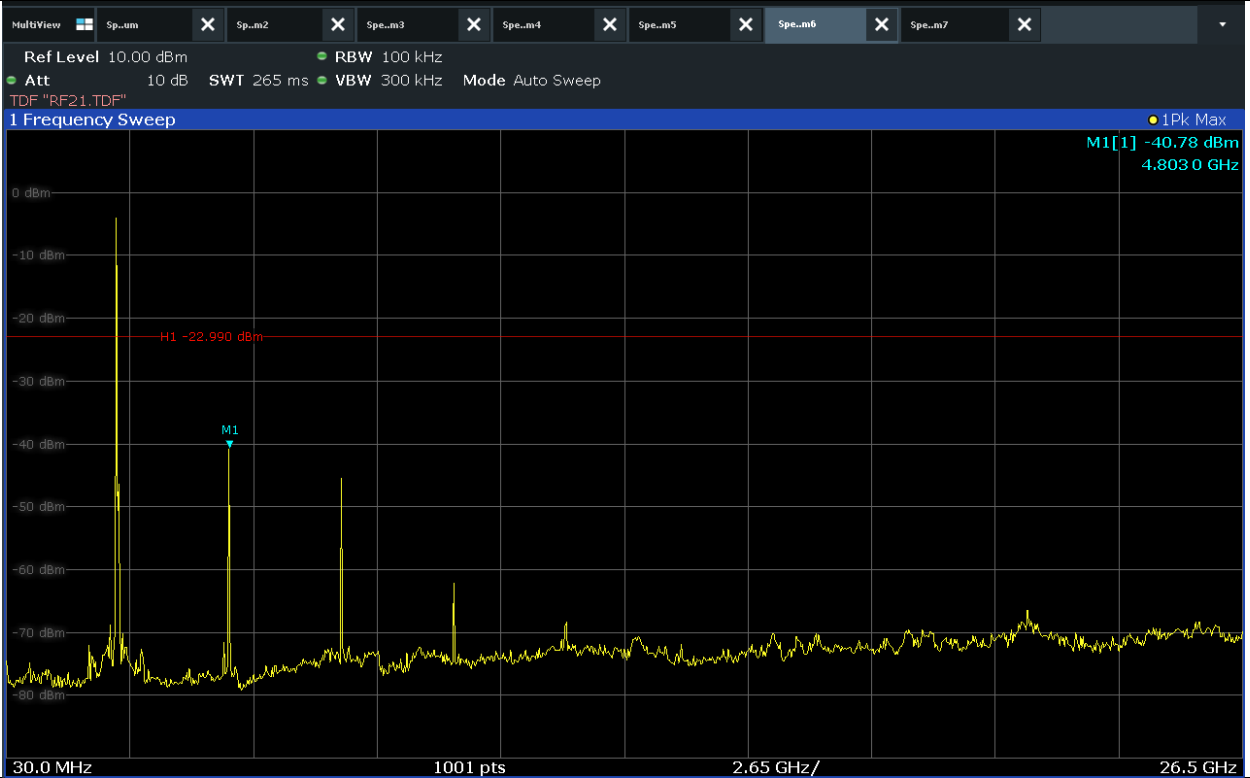
Mid CH



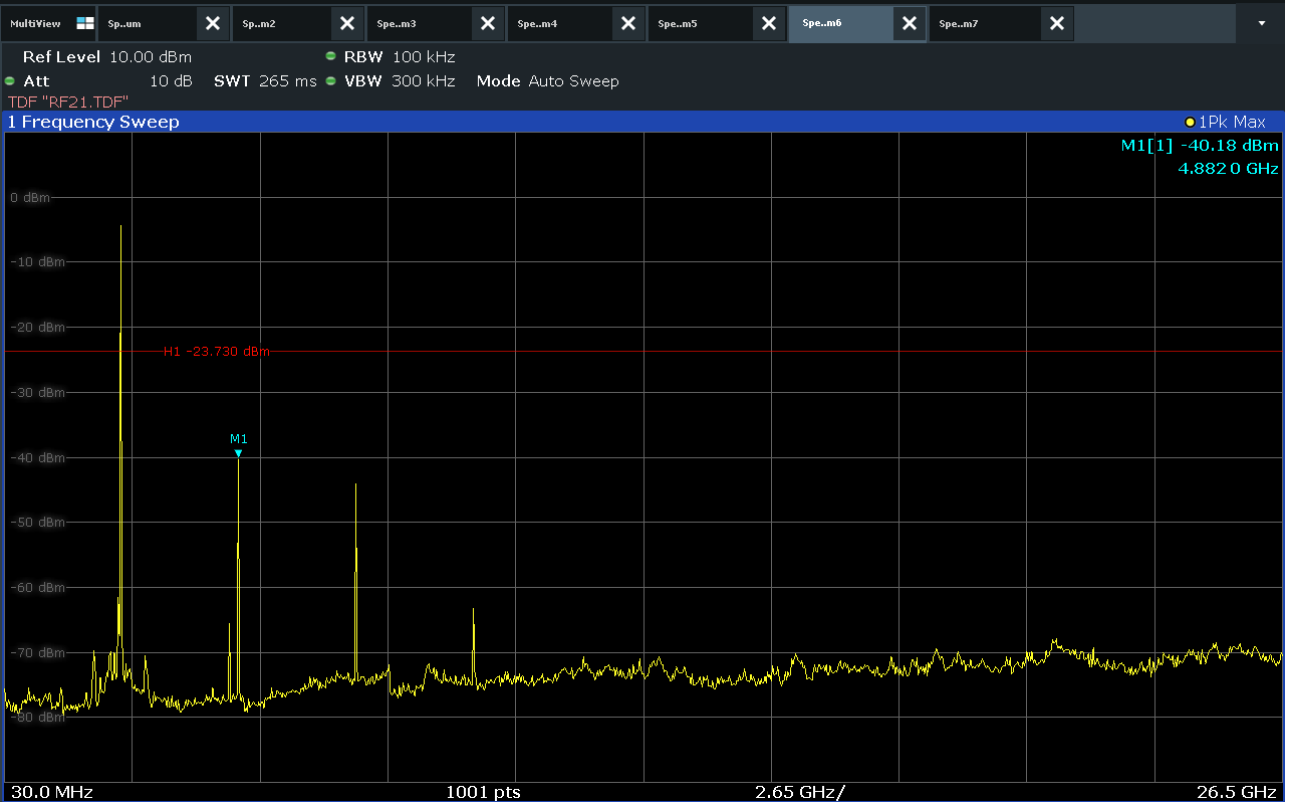
High CH



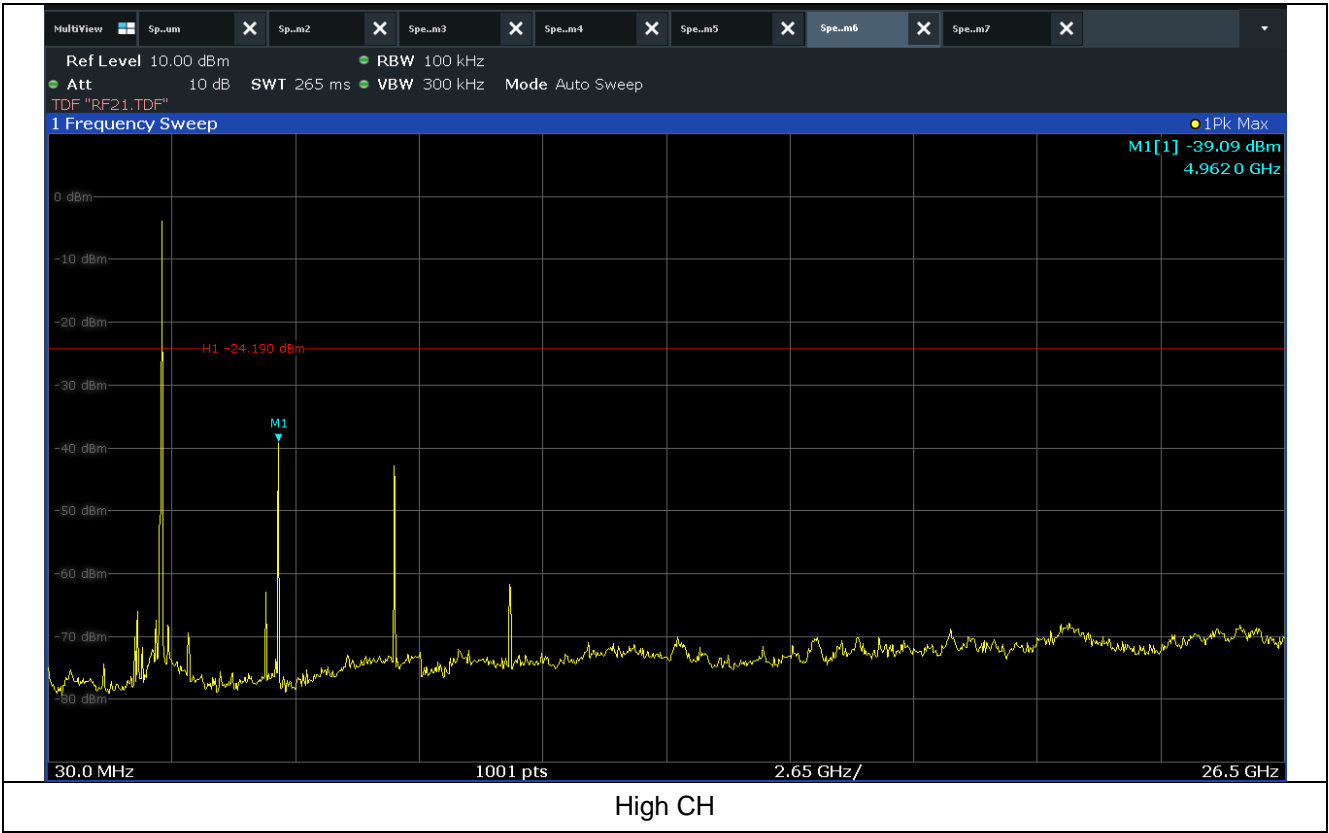
### 8.4.1.2 Unwanted Emissions In Non-Restricted Frequency Bands



Low CH

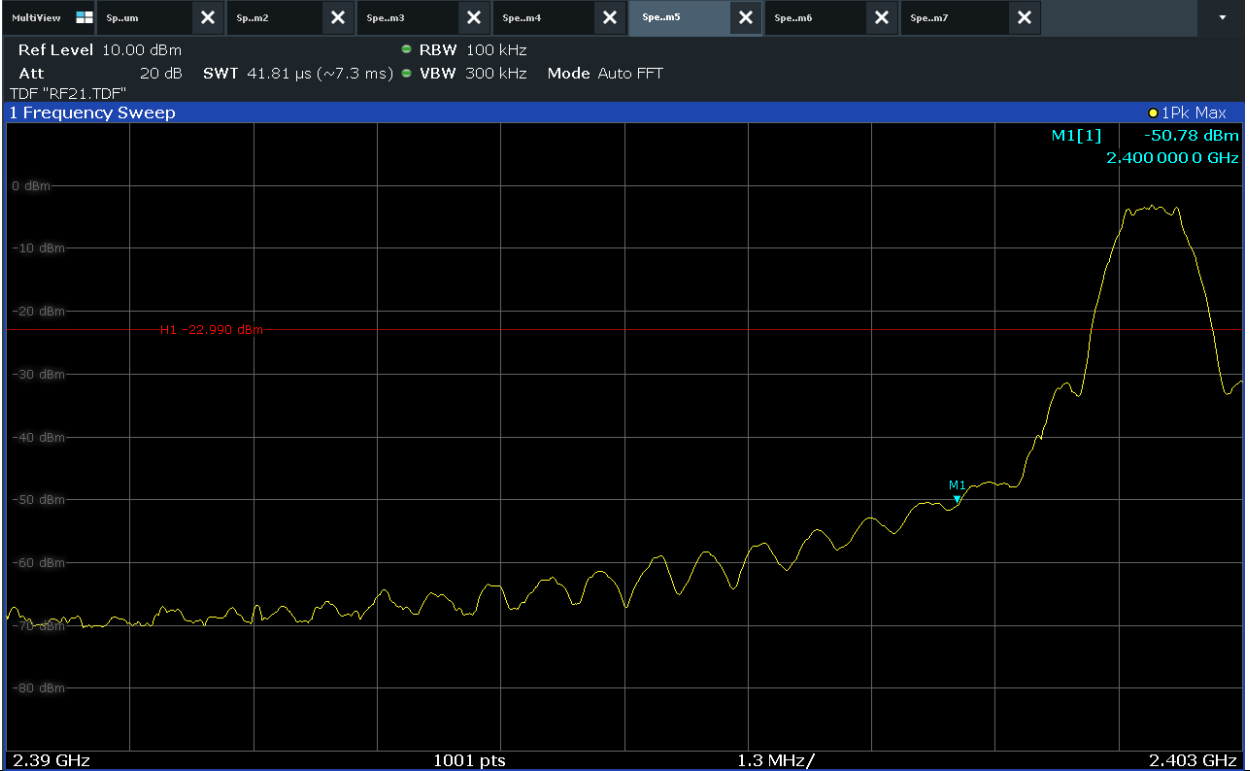


Mid CH

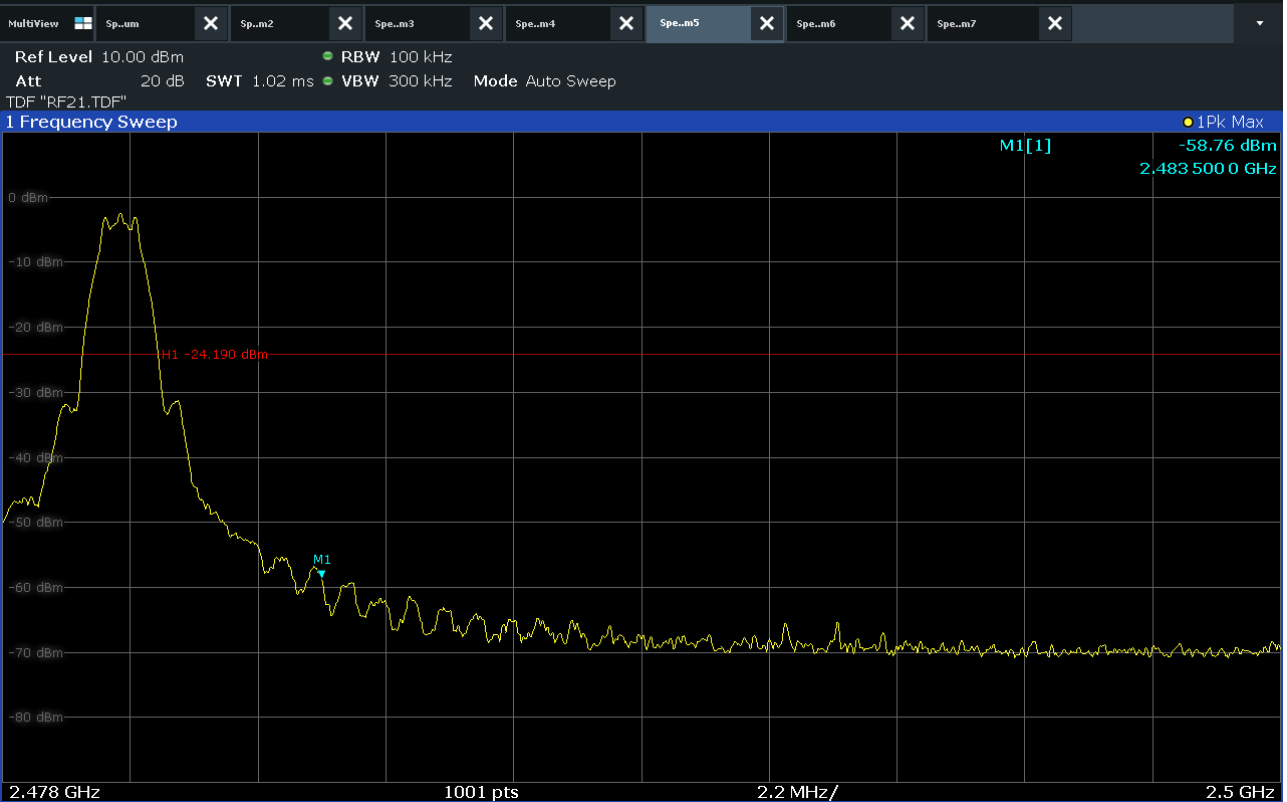




### 8.4.1.3 Band Edge



#### Low CH



#### High CH



## 9. Radiated Spurious Emission

### 9.1 Operating environment

Temperature : 24 °C  
Relative humidity : 48 %

### 9.2 Measurement method

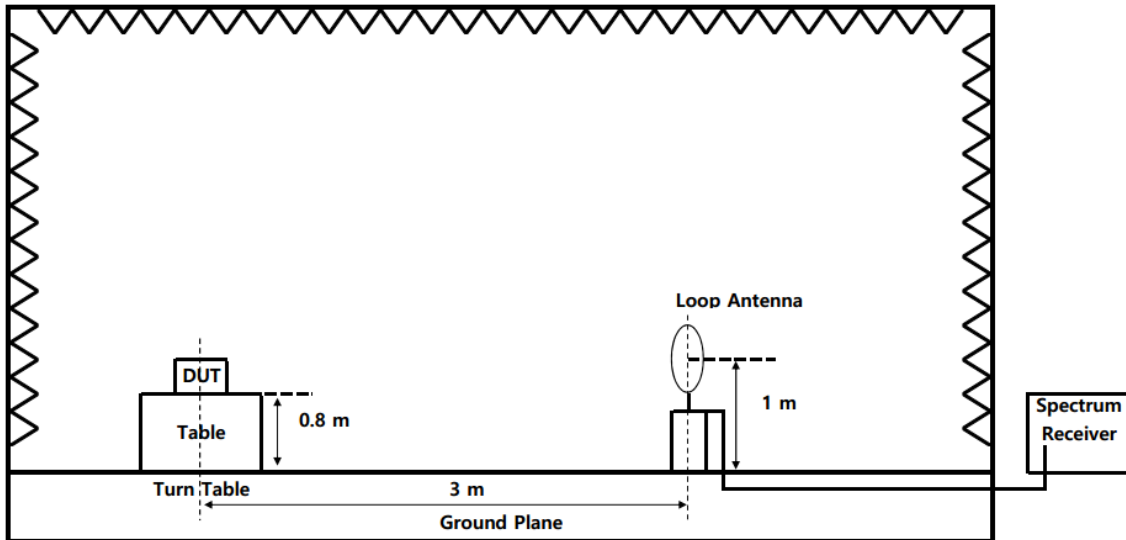
Standard : §15.247 (d), §15.209, §15.205

### 9.3 Test setup

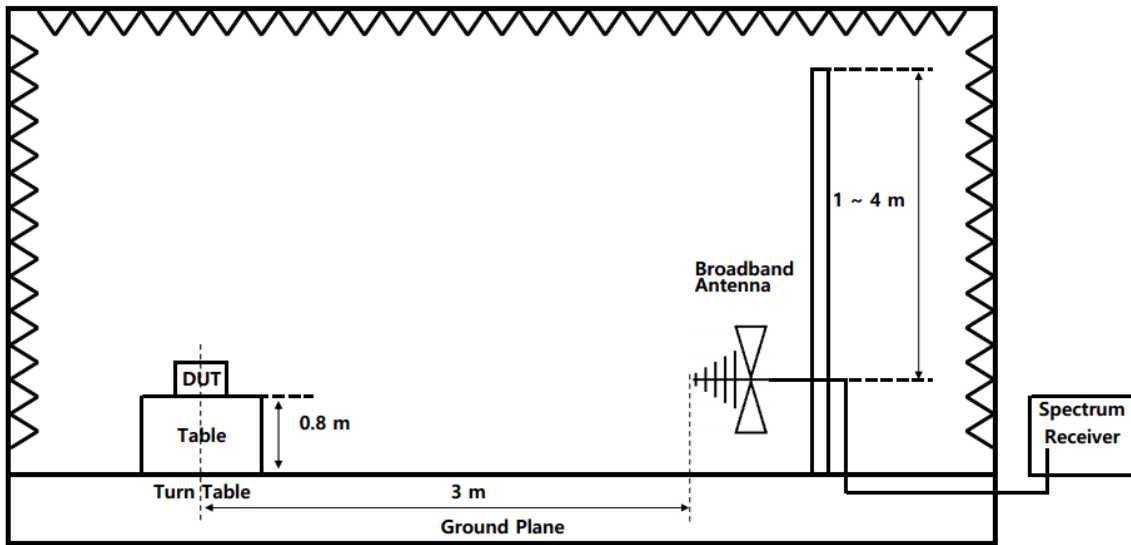
The radiated emissions measurements were performed on the 3 m, Semi-Anechoic Chamber. The EUT was placed on a non-conductive turntable above the ground plane.

The frequency spectrum from 9 kHz to 26.5 GHz was scanned and maximum emission levels at each frequency recorded. The system was rotated 360°, and the antenna was varied in the height between 1.0 m and 4.0 m in order to determine the maximum emission levels. This procedure was performed for horizontal and vertical polarization of the receiving antenna.

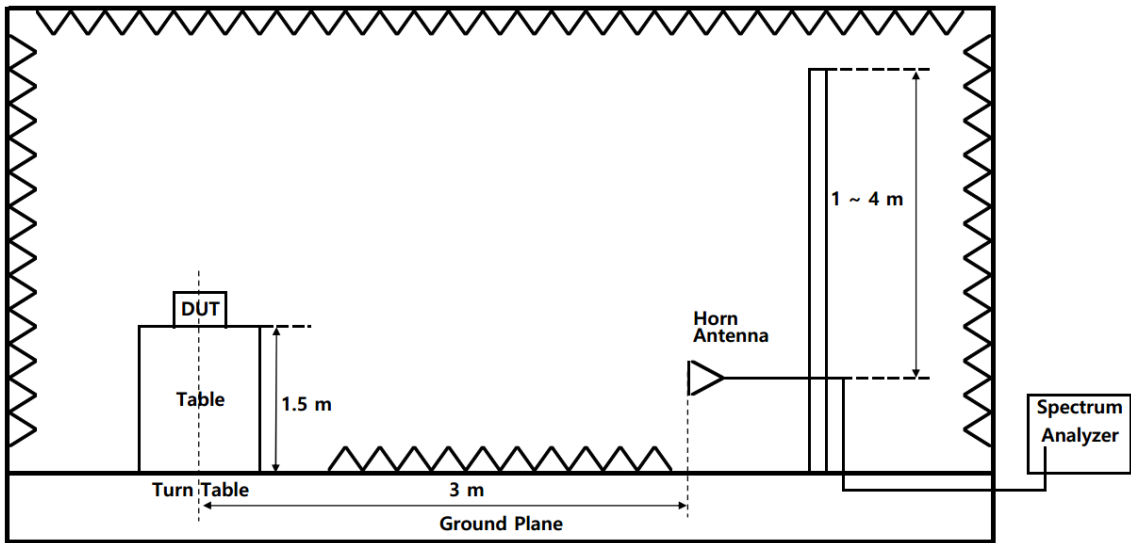
#### 9.3.1 Below 30 MHz



### 9.3.2 30 MHz to 1 GHz



### 9.3.3 Above 1 GHz





### 9.4 Test data

Operating mode : Transmit mode

Test Result : Pass

#### 9.4.1 Test data for Restricted band

Frequency (MHz)	Reading (dBμV)	Detector	Ant. Pol. (H/V)	Corr. Factor (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
Low CH							
2 389.74	56.81	Peak	V	-12.20	44.61	73.98	29.37
	35.39	Average	V		23.19	53.98	30.79
High CH							
2 484.57	48.09	Peak	V	-12.00	36.09	73.98	37.89
	33.34	Average	V		21.34	53.98	32.64

- ※ Ant. Pol. : Antenna Polarization
- ※ Corr. Factor. : Antenna Factor + Cable Loss - Amplifier Gain
- ※ Result = Reading + Corr. Factor
- ※ Margin = Limit - Result

#### 9.4.2 Test data for Spurious & Harmonic

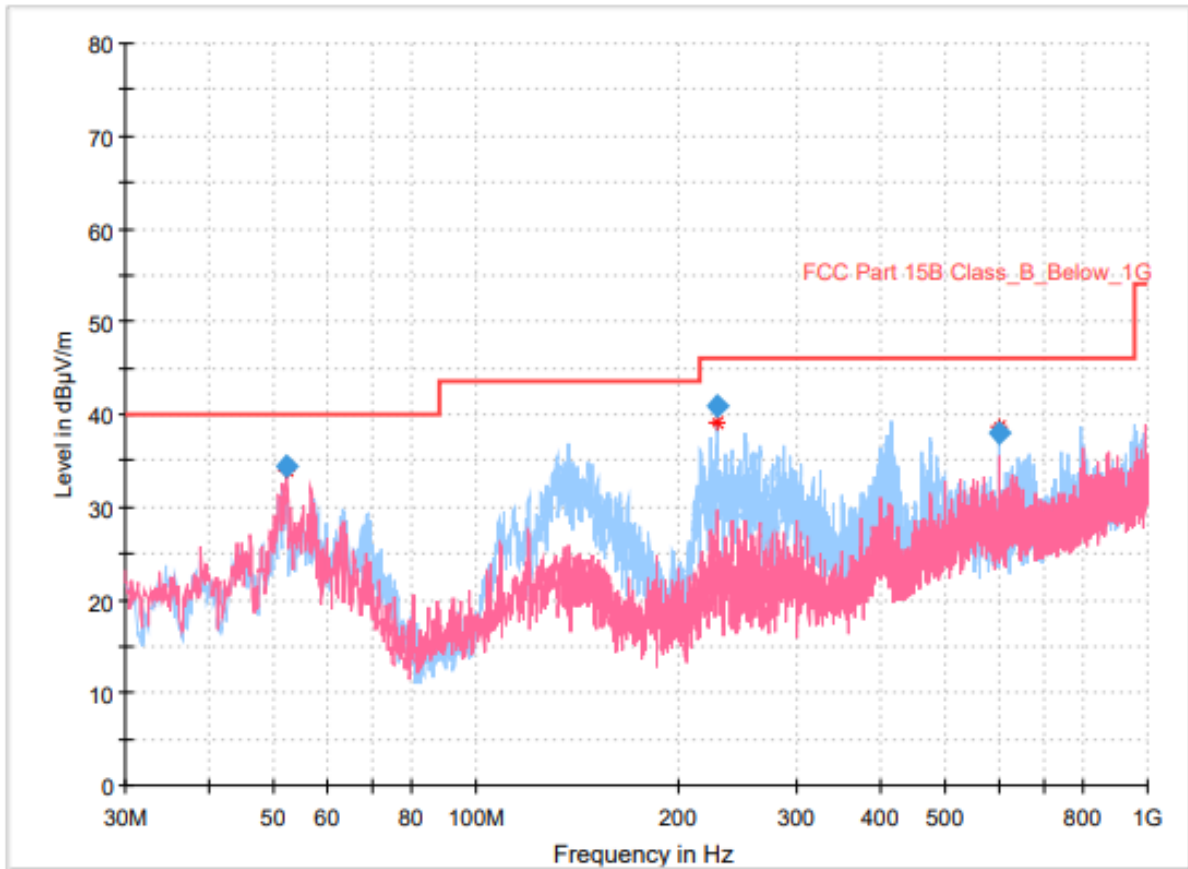
##### 9.4.2.1 Measurement Results for below 30 MHz

Frequency (MHz)	Reading (dBμV)	Detector	Ant. Pol. (H/V)	Corr. Factor (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
Low CH							
It was not found any emissions peaks found from the EUT.							
Mid CH							
It was not found any emissions peaks found from the EUT.							
High CH							
It was not found any emissions peaks found from the EUT.							

- ※ Ant. Pol. : Antenna Polarization
- ※ Corr. Factor. : Antenna Factor + Cable Loss - Amplifier Gain
- ※ Result = Reading + Corr. Factor
- ※ Margin = Limit - Result



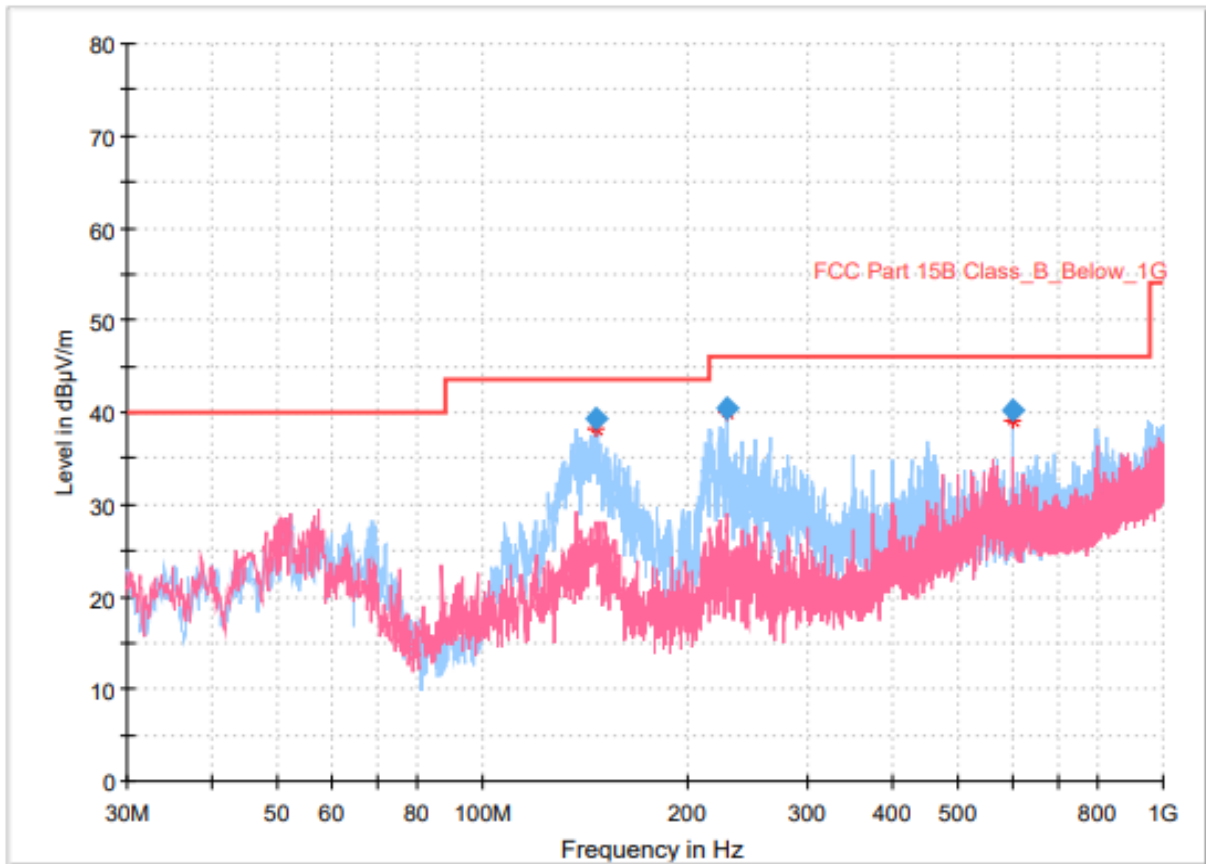
9.4.2.2 Measurement Results for below 1 GHz



**Final Result**

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
52.213000	34.33	40.00	5.67	1000.0	120.000	99.9	V	89.0	-22.1
227.977000	40.85	46.00	5.15	1000.0	120.000	99.9	H	153.0	-23.1
599.972000	37.91	46.00	8.09	1000.0	120.000	99.9	H	79.0	-13.0

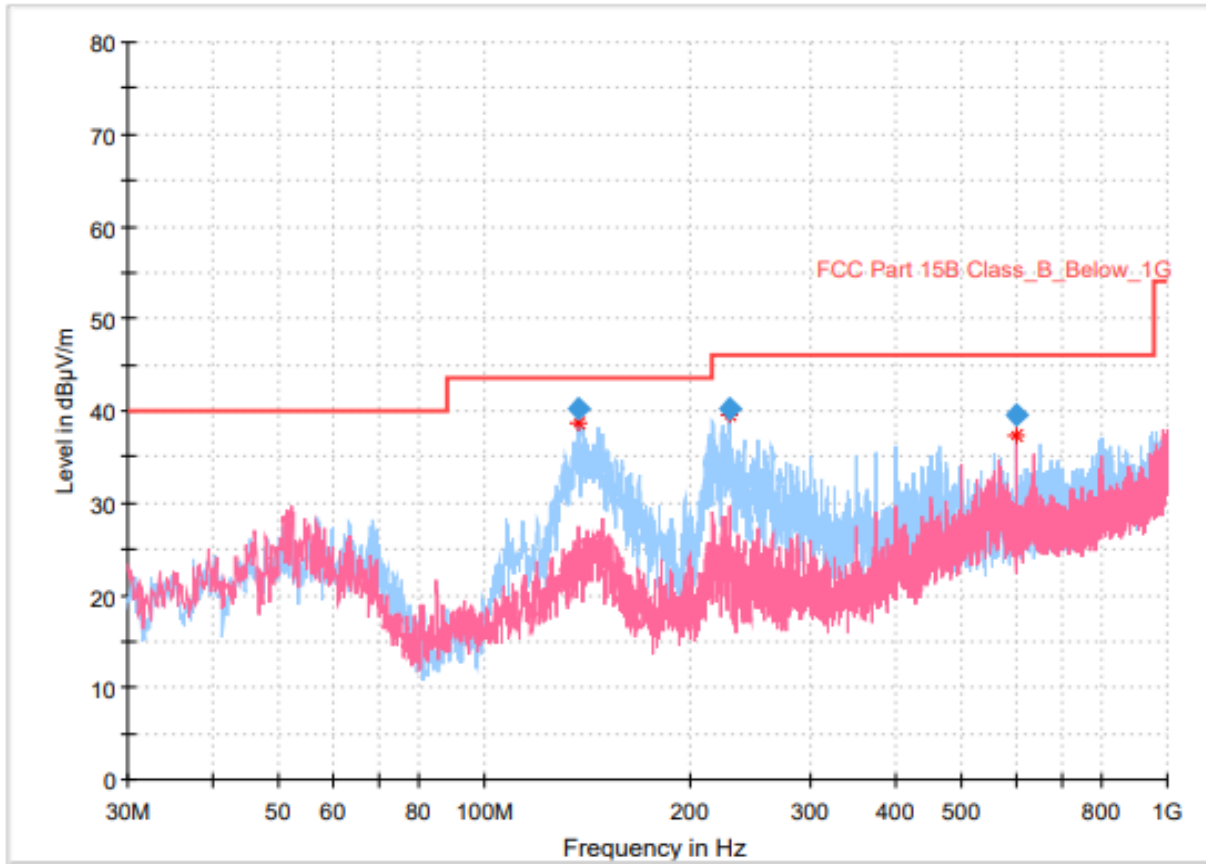
Low CH



### Final Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
147.079000	39.39	43.50	4.11	1000.0	120.000	99.9	H	176.0	-27.4
227.977000	40.35	46.00	5.65	1000.0	120.000	99.9	H	163.0	-23.1
599.972000	40.22	46.00	5.78	1000.0	120.000	99.9	H	102.0	-13.0

Mid CH



### Final Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
137.185000	40.24	43.50	3.26	1000.0	120.000	99.9	H	152.0	-27.3
227.880000	40.28	46.00	5.72	1000.0	120.000	99.9	H	165.0	-23.1
599.972000	39.62	46.00	6.38	1000.0	120.000	99.9	H	82.0	-13.0

High CH



**9.4.2.3 Measurement Results for Above 1 GHz**

Frequency (MHz)	Reading (dB $\mu$ V)	Detector	Ant. Pol. (H/V)	Corr. Factor (dB)	Result (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)
Low CH							
3 000.03	56.13	Peak	V	-9.80	46.33	73.98	27.65
	51.99	Average	V		42.19	53.98	11.79
4 803.83	46.91	Peak	H	-3.50	43.41	73.98	30.57
	34.30	Average	H		30.80	53.98	23.18
6 000.12	50.57	Peak	V	-1.70	48.87	73.98	25.11
	44.37	Average	V		42.67	53.98	11.31
7 201.60	46.02	Peak	H	0.70	46.72	73.98	27.26
	32.46	Average	H		33.16	53.98	20.82
9 612.69	45.91	Peak	V	3.80	49.71	73.98	24.27
	32.31	Average	V		36.11	53.98	17.87
Mid CH							
3 000.06	55.24	Peak	V	-9.80	45.44	73.98	28.54
	51.43	Average	V		41.63	53.98	12.35
4 879.77	45.00	Peak	H	-2.90	42.10	73.98	31.88
	31.47	Average	H		28.57	53.98	25.41
5 999.83	46.71	Peak	V	-1.70	45.01	73.98	28.97
	36.96	Average	V		35.26	53.98	18.72
7 315.09	46.99	Peak	V	0.90	47.89	73.98	26.09
	33.51	Average	V		34.41	53.98	19.57
9 762.88	46.73	Peak	H	4.00	50.73	73.98	23.25
	32.41	Average	H		36.41	53.98	17.57



High CH							
2 999.78	53.78	Peak	V	-9.80	43.98	73.98	30.00
	48.21	Average	V		38.41	53.98	15.57
4 960.64	44.04	Peak	H	-2.70	41.34	73.98	32.64
	30.62	Average	H		27.92	53.98	26.06
5 999.96	54.11	Peak	V	-1.70	52.41	73.98	21.57
	49.43	Average	V		47.73	53.98	6.25
7 442.13	45.91	Peak	V	1.20	47.11	73.98	26.87
	32.69	Average	V		33.89	53.98	20.09
9 913.56	45.71	Peak	V	4.20	49.91	73.98	24.07
	32.59	Average	V		36.79	53.98	17.19

- ※ Ant. Pol. : Antenna Polarization
- ※ Corr. Factor. : Antenna Factor + Cable Loss - Amplifier Gain
- ※ Result = Reading + Corr. Factor
- ※ Margin = Limit – Result





## 10. Power Line Conducted Emission

### 10.1 Operating environment

Temperature : 24 °C  
Relative humidity : 48 %

### 10.2 Measurement method

Standard : §15.207

### 10.3 Test setup

The EUT was placed on a wooden table, 0.8 m height above the floor. Power was fed to the EUT through a 50 Ω / 50 μH + 5 Ω Artificial Mains Network (AMN). The ground plane was electrically bonded to the reference ground system and all power lines were filtered from ambient.

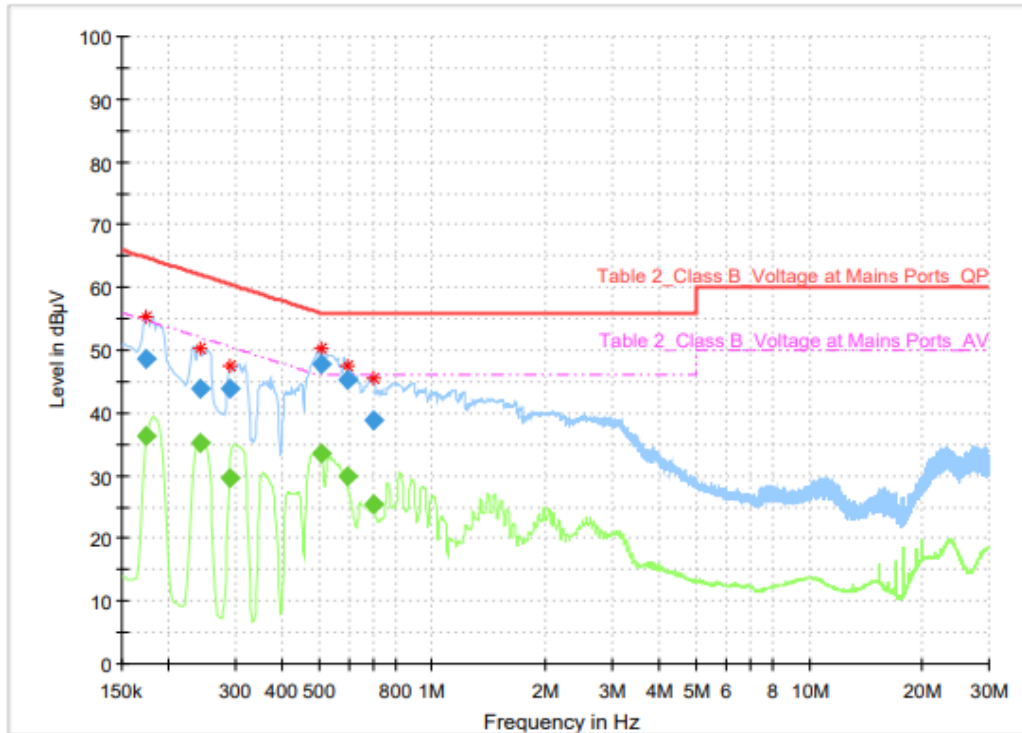




### 10.4 Test data

Operating mode : Transmit mode  
 Test Result : Pass

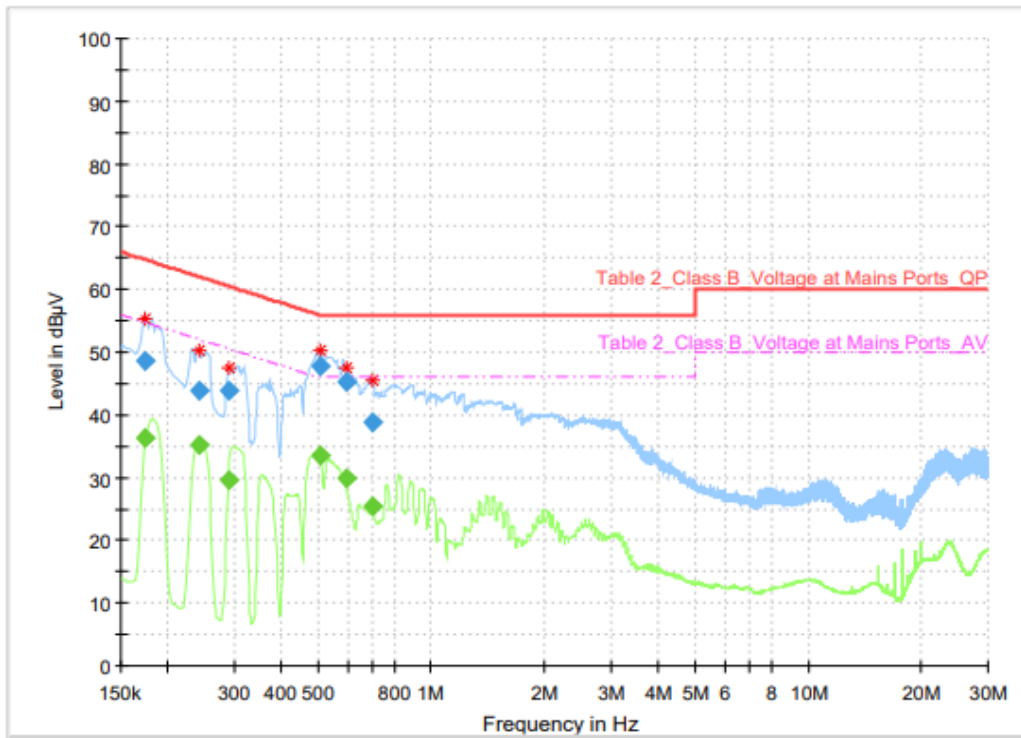
#### 10.4.1 Measured Results & Graph



#### Final Result

Frequency (MHz)	QuasiPeak (dBµV)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.174750	---	36.18	54.73	18.55	5000.0	9.000	L1	ON	10.0
0.174750	48.51	---	64.73	16.22	5000.0	9.000	L1	ON	10.0
0.242250	---	35.25	52.02	16.76	5000.0	9.000	L1	ON	9.7
0.242250	43.83	---	62.02	18.19	5000.0	9.000	L1	ON	9.7
0.289500	---	29.62	50.54	20.92	5000.0	9.000	L1	ON	9.7
0.289500	43.82	---	60.54	16.71	5000.0	9.000	L1	ON	9.7
0.510000	---	33.55	46.00	12.45	5000.0	9.000	L1	ON	9.9
0.510000	47.75	---	56.00	8.25	5000.0	9.000	L1	ON	9.9
0.593250	---	29.79	46.00	16.21	5000.0	9.000	L1	ON	9.9
0.593250	45.30	---	56.00	10.70	5000.0	9.000	L1	ON	9.9
0.694500	---	25.44	46.00	20.56	5000.0	9.000	L1	ON	9.9
0.694500	38.94	---	56.00	17.06	5000.0	9.000	L1	ON	9.9

Live line



### Final Result

Frequency (MHz)	QuasiPeak (dBµV)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.174750	---	36.18	54.73	18.55	5000.0	9.000	L1	ON	10.0
0.174750	48.51	---	64.73	16.22	5000.0	9.000	L1	ON	10.0
0.242250	---	35.25	52.02	16.76	5000.0	9.000	L1	ON	9.7
0.242250	43.83	---	62.02	18.19	5000.0	9.000	L1	ON	9.7
0.289500	---	29.62	50.54	20.92	5000.0	9.000	L1	ON	9.7
0.289500	43.82	---	60.54	16.71	5000.0	9.000	L1	ON	9.7
0.510000	---	33.55	46.00	12.45	5000.0	9.000	L1	ON	9.9
0.510000	47.75	---	56.00	8.25	5000.0	9.000	L1	ON	9.9
0.593250	---	29.79	46.00	16.21	5000.0	9.000	L1	ON	9.9
0.593250	45.30	---	56.00	10.70	5000.0	9.000	L1	ON	9.9
0.694500	---	25.44	46.00	20.56	5000.0	9.000	L1	ON	9.9
0.694500	38.94	---	56.00	17.06	5000.0	9.000	L1	ON	9.9

Neutral line

- END -