



시험 성적서

TEST REPORT

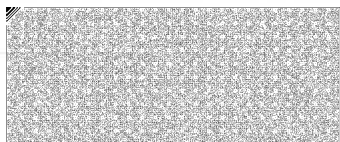
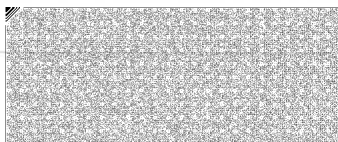
페이지(page) : (1) / (총(Total) 40)

성적서 번호 Report No.		ICRT-TR-E222691-0A	
신청자 Client	기관명 Name	ventaron	
	주소 Address	59, Wonpogongwon 1-ro, Danwon-gu, Ansan-si, Gyeonggi-do, Republic of Korea	
시험대상품목 Sample description		Magnito Mouse	
모델명 Type designation		VM-M300S	
정격 Ratings		DC 3.0 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		31. Oct. 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	Seong-Hun, Jeong (서명) (Signature)	Tae-Yang, Yoon (서명) (Signature)
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2022. 11. 02 주식회사 아이씨알 대표이사 The head of INTERNATIONAL CERTIFICATION REGISTRAR			

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

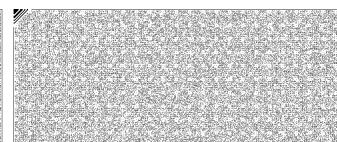
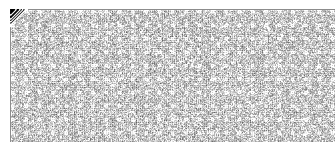
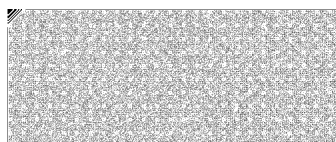
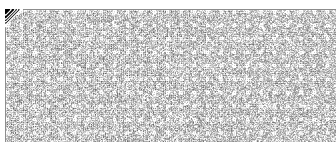
경기도 김포시 양촌읍 황금3로7번길 112 / Tel: 02-6351-9001 ~ 6





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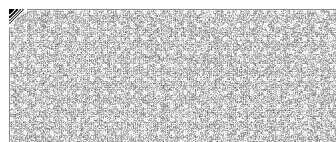
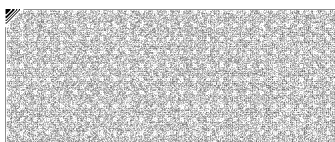
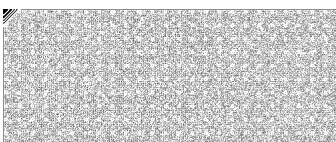
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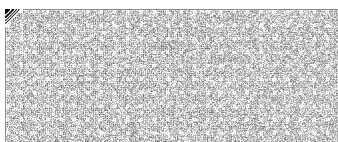
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Revision History

Issued Report No.	Issued Date	Revisions	Effect Section
ICRT-TR-E222691-0A	2022-11-02	Initial Issue	All





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1. Applicant & Manufacturer & Test Laboratory Information

1.1 Applicant information

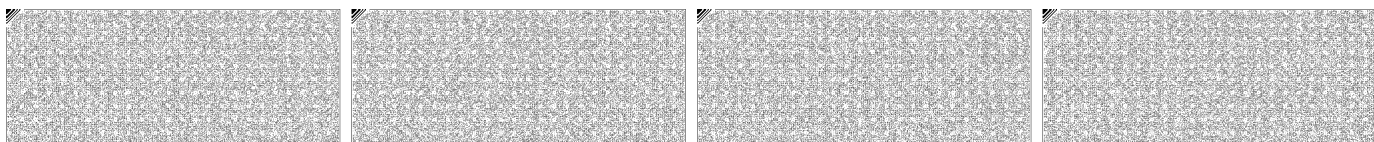
Applicant	ventaron
Address	59, Wonpogongwon 1-ro, Danwon-gu, Ansan-si, Gyeonggi-do, Republic of Korea
Contact Person	SANGMIN SHIN
Telephone No.	82-10-9830-7786
Fax No.	-
E-mail	ssm77@ventaron.net

1.2 Manufacturer Information

Manufacturer	Dongguan Lingjie Electronics & Technology Co., Ltd
Address	No.23, ZhenXing North Road, TeiYuan Community, XieGang Town, DongGuan City GuangDong province, China

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





2. Equipment under Test(EUT) Information

2.1 General Information

Product Name	Magnito Mouse
Brand Name	-
Model Name	VM-M300S
Additional Model Name	VM-M300W, VM-M300G, VM-M300P, VM-300B
FCC ID	2A8OG-VM-M300S
Power Supply	DC 3.0 V

2.2 Additional Information

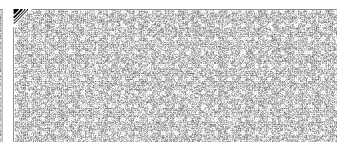
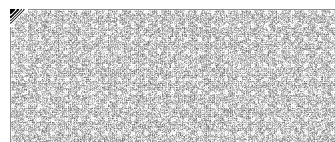
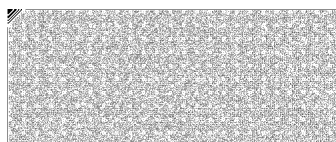
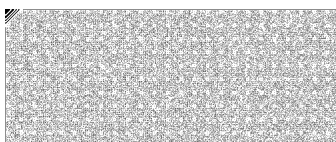
Equipment Class	DSS - Frequency Hopping Spread Spectrum system
Device Type	Stand-alone
Operating Frequency	2 402 MHz ~ 2 480 MHz
RF Output Power	-7.04 dBm
Number of Channel	79
Modulation Type	GFSK
Antenna Type	PCB Antenna
Antenna Gain	2.34 dBi
Antenna Operating Mode	Single Antenna Equipment with only one antenna

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)(1)(iii)	20 dB Bandwidth	<input checked="" type="checkbox"/>	PASS
§15.247 (a)(1)	Carrier Frequency Separation	<input checked="" type="checkbox"/>	PASS
§15.247 (a)(1) (iii)	Number of Hopping Frequencies	<input checked="" type="checkbox"/>	PASS
§15.247 (a)(1) (iii)	Time of Occupancy (dwell Time)	<input checked="" type="checkbox"/>	PASS
§15.247 (b)(1)	Maximum Conducted Output Power	<input checked="" type="checkbox"/>	PASS
§15.247 (d)	Conducted Spurious Emission & Band edge	<input checked="" type="checkbox"/>	PASS
§15.247 (d) & §15.209 & §15.205	Radiated Spurious Emission & Band edge	<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.

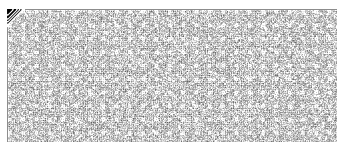
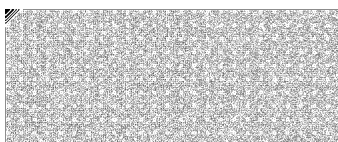
3.3 Test Methodology

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.





3.5 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.

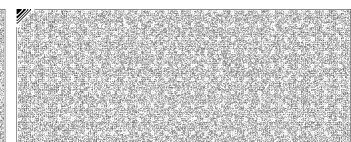
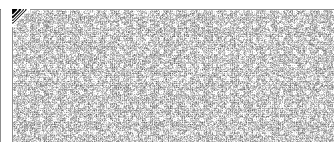
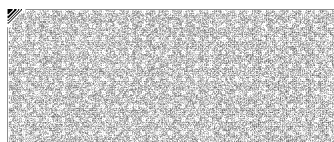
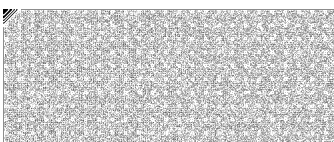
The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

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 **PCB Antenna**. The directional gain of the antenna is **2.34 dBi**

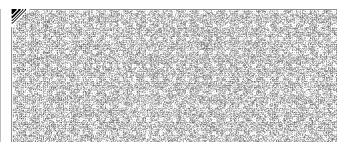
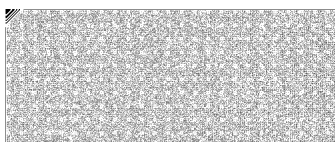
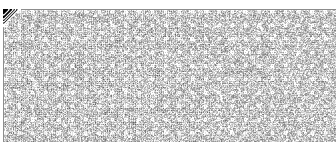




4. Used equipment on test

	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	2023-08-22 (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. 20 dB Bandwidth

5.1 Operating environment

Temperature : 23 °C

Relative humidity : 47 %

5.2 Measurement method

Standard : ANSI 63.10 (6.9.2)

5.3 Limit

Standard : §15.247 (a)(1)(i)

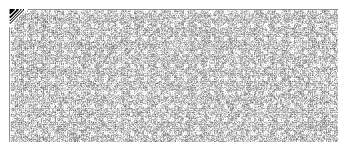
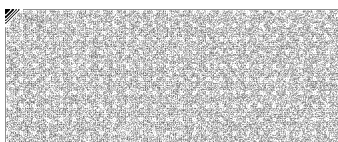
5.4 Test data

Operating mode : Transmit mode

Test Result : Pass

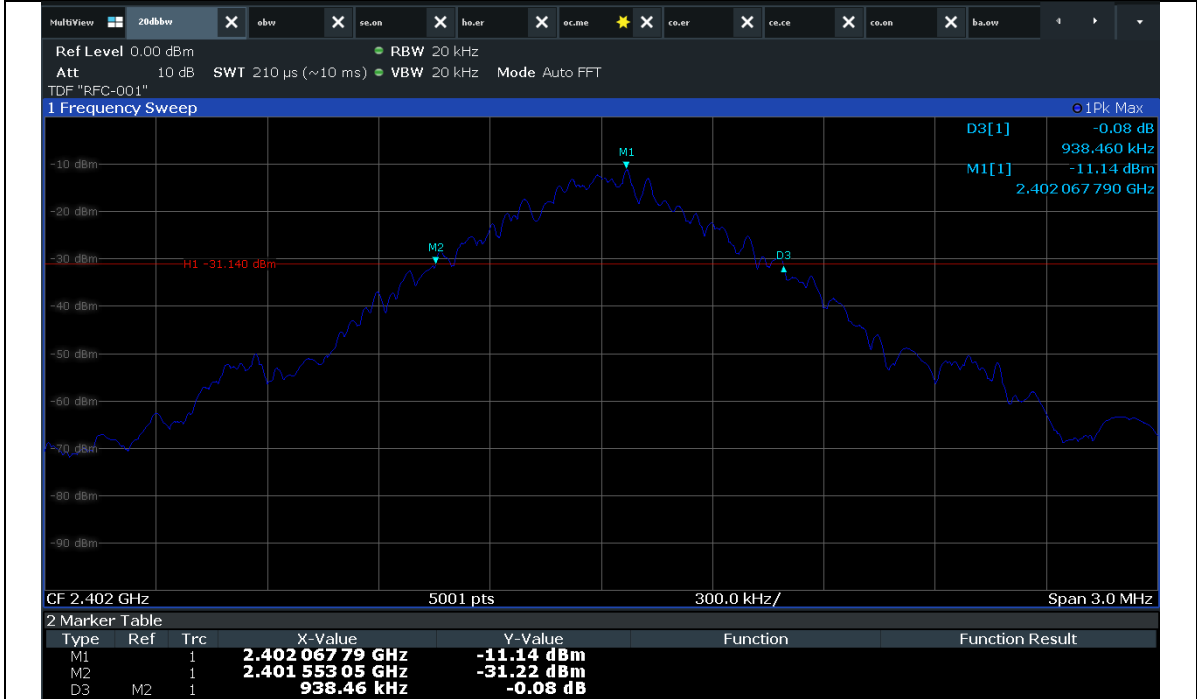
5.4.1 Measured Results

Modulation Type	Channel (Frequency)	20 dB Bandwidth (kHz)	Limit
Bluetooth BDR	0 (2 402 MHz)	938.46	-
	39 (2 441 MHz)	935.81	
	78 (2 480 MHz)	937.61	





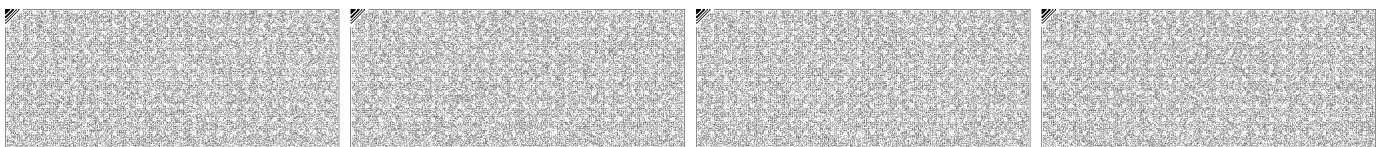
5.4.2 Measured Graph (20 dB Bandwidth)

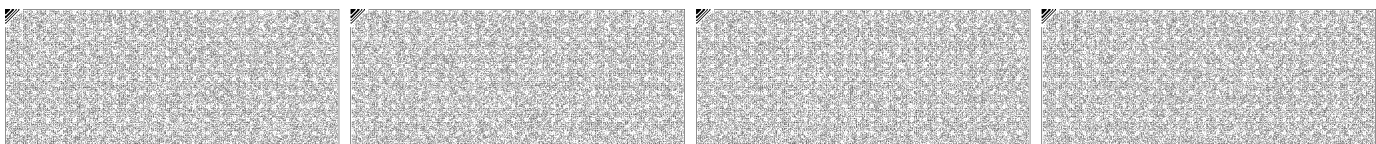
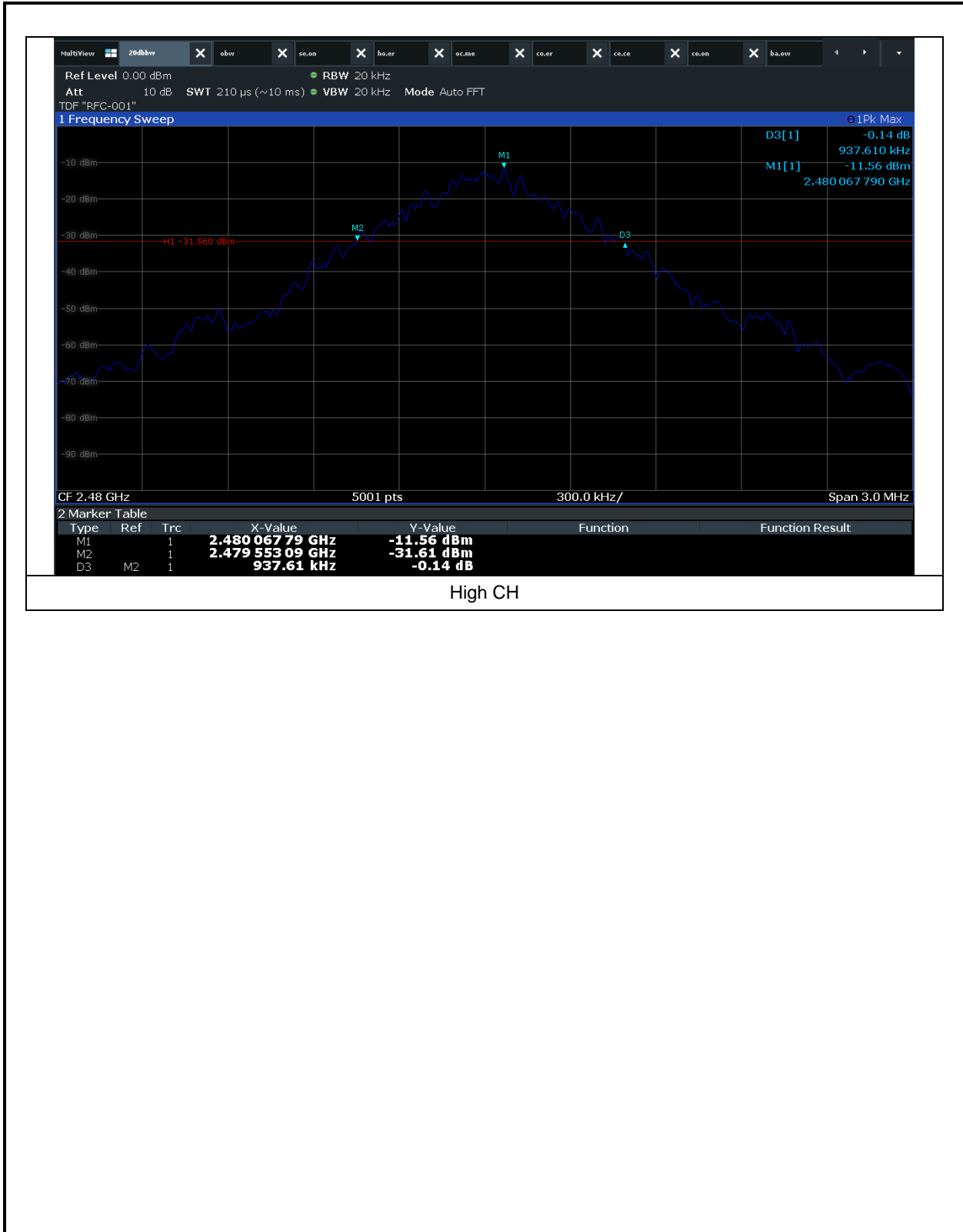


Low CH



Mid CH







6. Carrier Frequency Separation

6.1 Operating environment

Temperature : 23 °C
Relative humidity : 47 %

6.2 Measurement method

Standard : ANSI 63.10 (7.8.2)

6.3 Limit

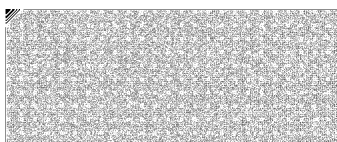
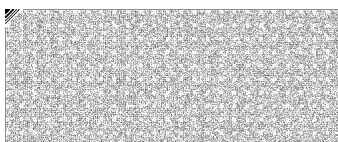
Standard : 15.247 (a)(1)

6.4 Test data

Operating mode : Transmit mode
Test Result : Pass

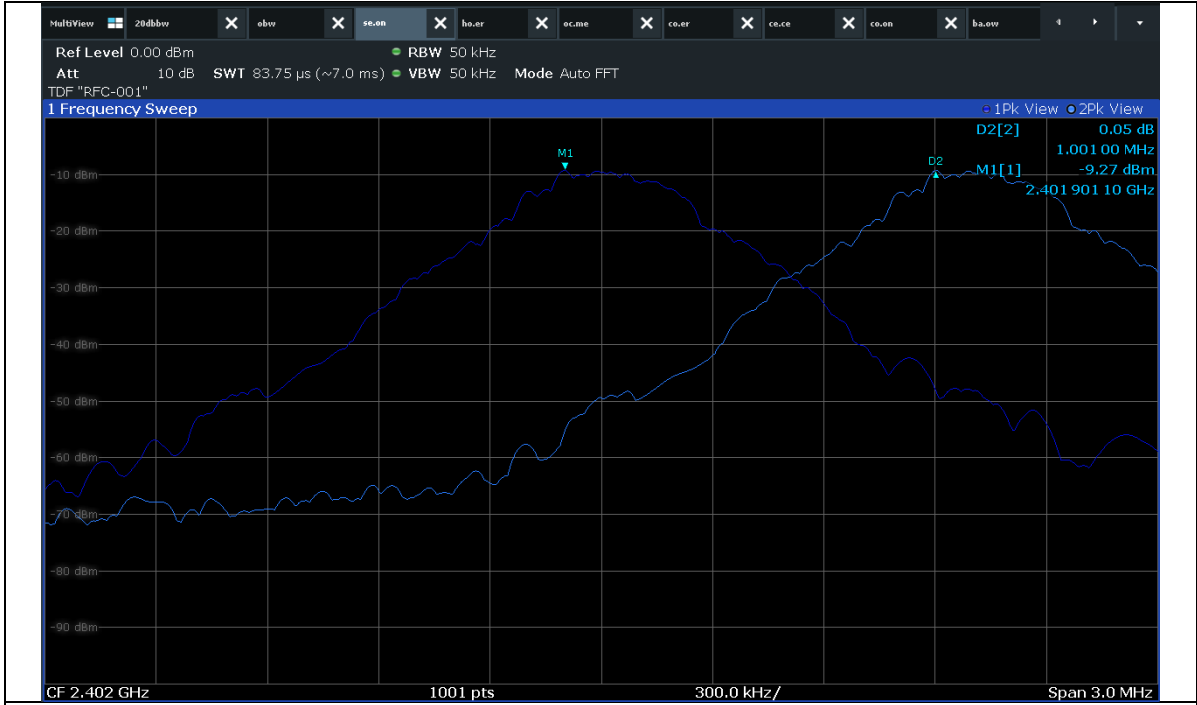
6.4.1 Measured Results

Modulation type	Channel (Frequency)	Separation (kHz)	Two-third 20 dB bandwidth of the hopping channel (kHz)	Limit
FHSS	0 (2 402 MHz)	1 001.00	625.64	25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater
	39 (2 441 MHz)	833.20	623.87	
	78 (2 480 MHz)	998.00	625.07	

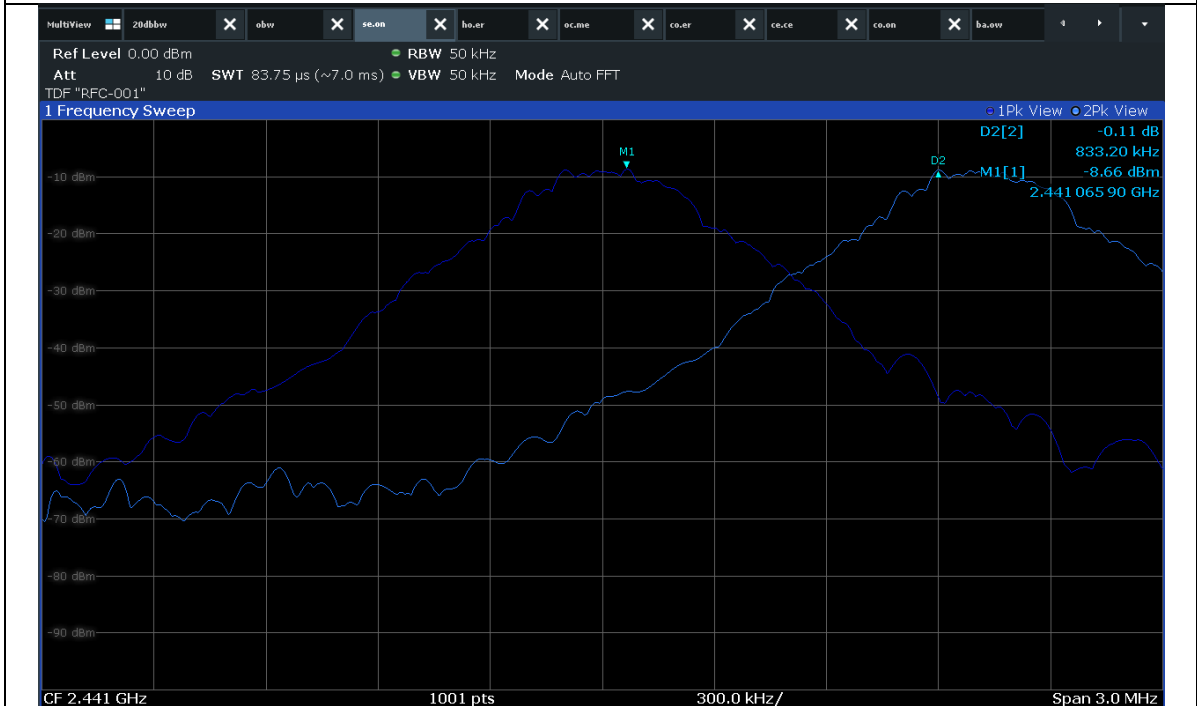




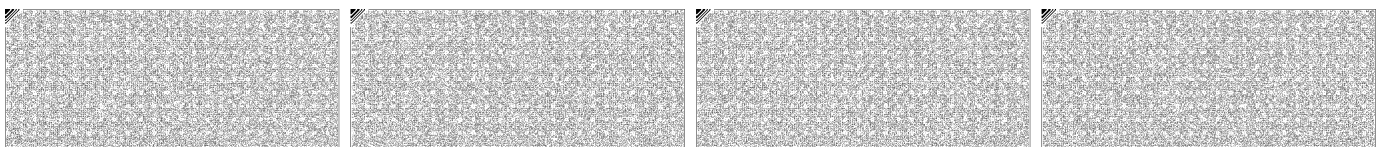
6.4.2 Measured Graph

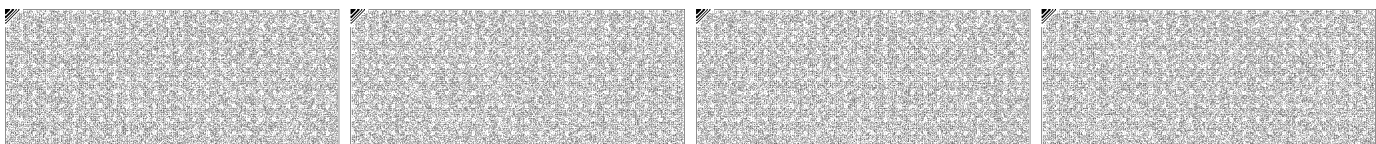
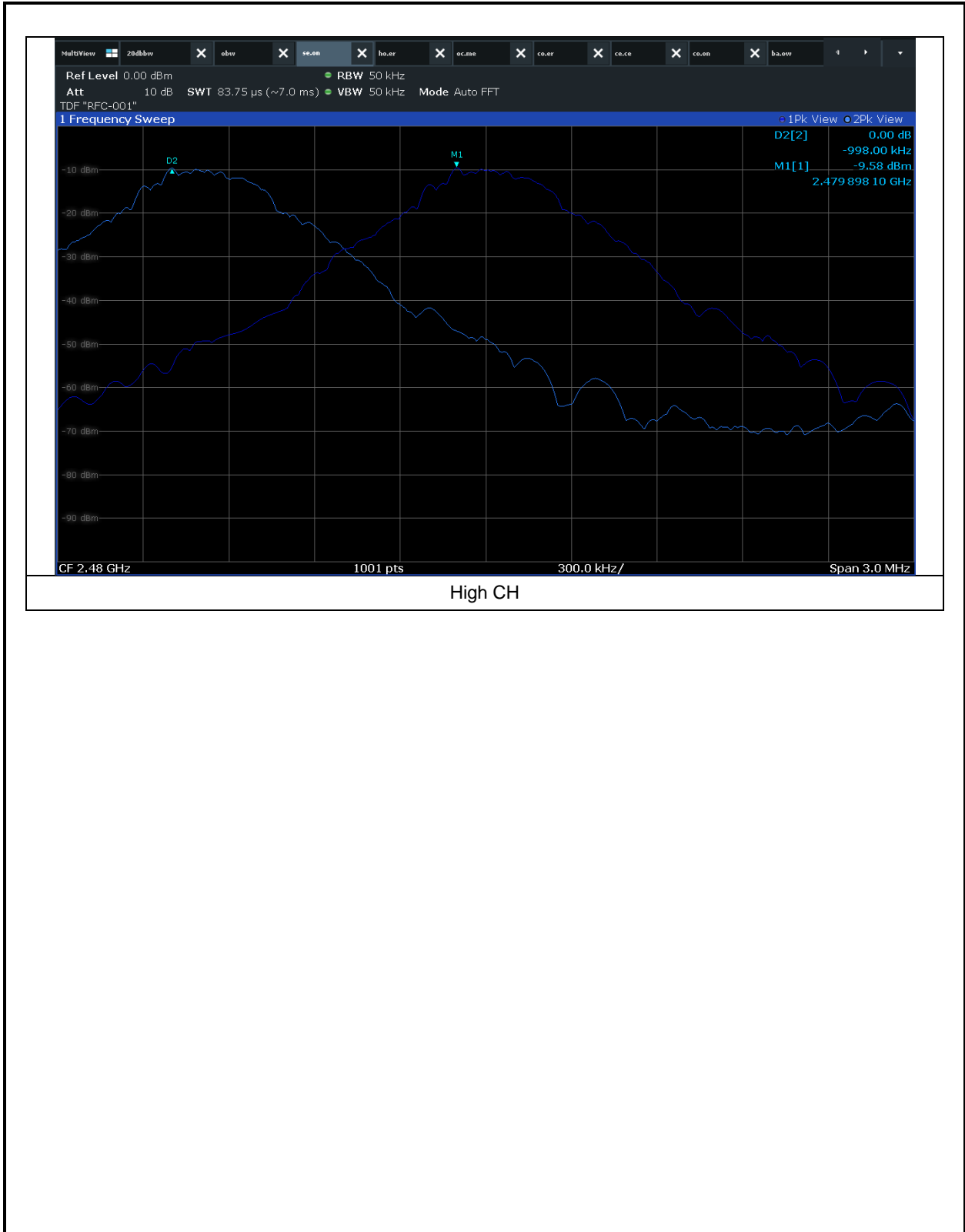


Low CH



Mid CH







7. Number of Hopping Frequency

7.1 Operating environment

Temperature : 23 °C

Relative humidity : 47 %

7.2 Measurement method

Standard : ANSI 63.10 (7.8.3)

7.3 Limit

Standard : 15.247 (a)(1)(iii)

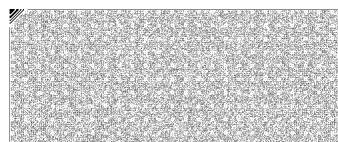
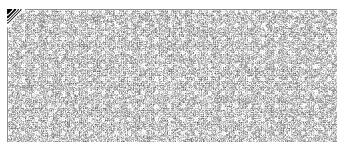
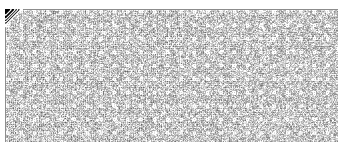
7.4 Test data

Operating mode : Hopping mode

Test Result : Pass

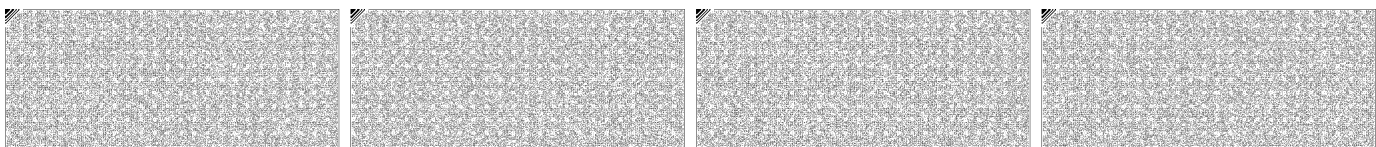
7.4.1 Measured Results

Modulation type	Hopping Channel Number	Limit
DH5	79	> 15





7.4.2 Measured Graph





8. Time of Occupancy (dwell Time)

8.1 Operating environment

Temperature : 23 °C
Relative humidity : 47 %

8.2 Measurement method

Standard : ANSI 63.10 (7.8.4)

8.3 Limit

Standard : §15.247 (a)(1)(iii)

8.4 Test data

Test Result : Pass

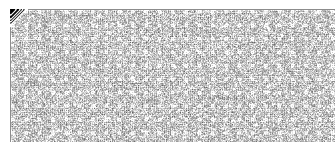
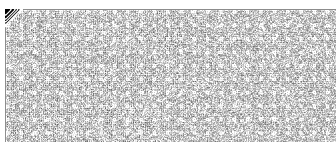
In Theory,

- non-AFH mode: hopping rate is 1 600 hops/s with 6 slots in 79 hopping channels. With channel hopping rate (1600 / 6 / 79) in Occupancy Time Limit (0.4 x 79) (s).
Hops Over Occupancy Time comes to (1 600 / 6 / 79) x (0.4 x 79) = 106.67 hops.

8.4.1 Measured Results

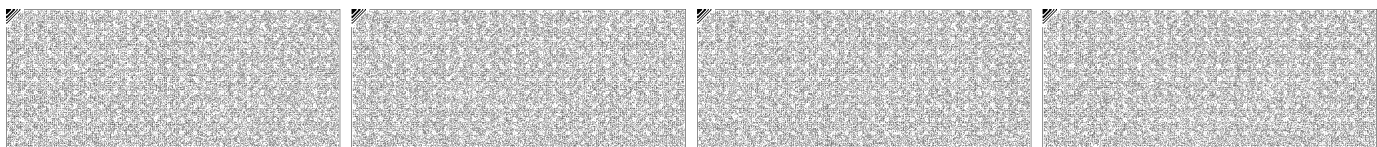
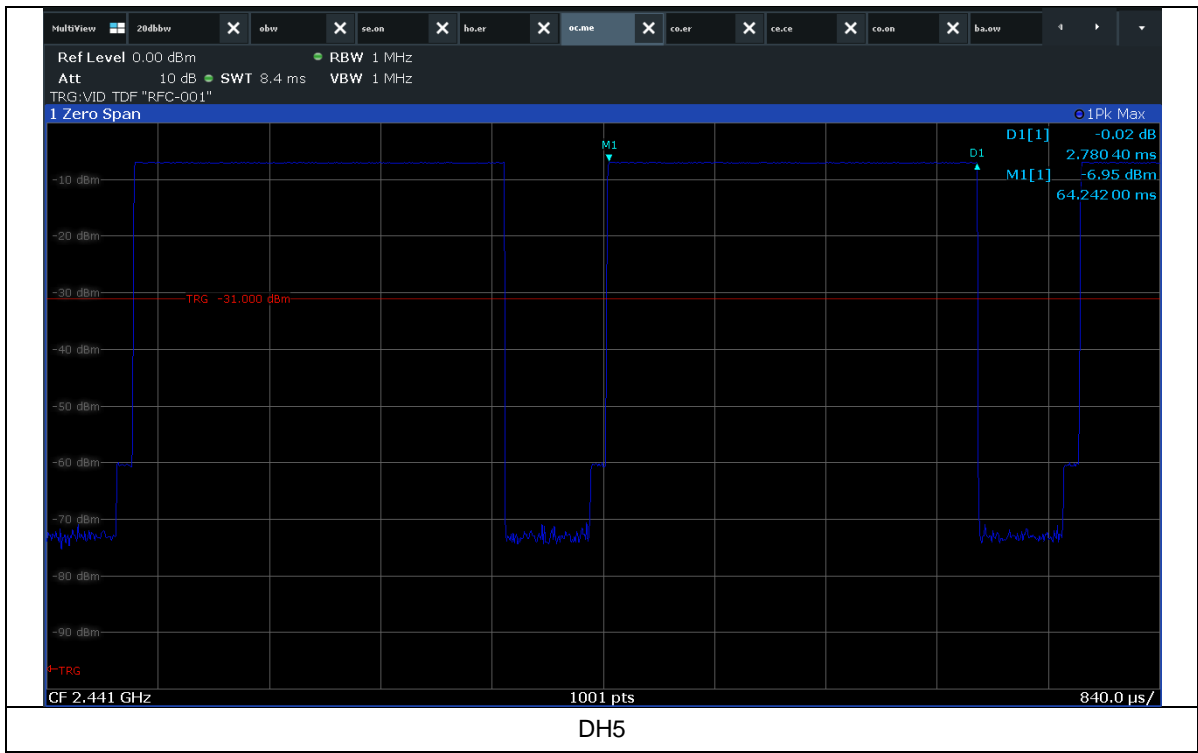
Operating Mode	Mode	Hopping Channel Number	Hops Over Occupancy Time (ms/hops)	Package Transfer Time (ms)	Occupancy Time (s)	Limit (s)
Hopping	DH5	79	106.67	2.780	0.30	0.4

※ Occupancy Time (s) = Hops Over Occupancy Time (hops) x Package Transfer Time (ms)





8.4.2 Measurement Graph





9. Maximum Conducted Output Power

9.1 Operating environment

Temperature : 23 °C
Relative humidity : 47 %

9.2 Measurement method

Standard : ANSI 63.10 (7.8.5)

9.3 Limit

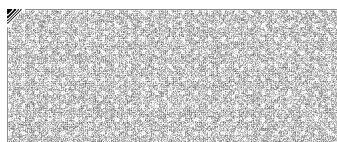
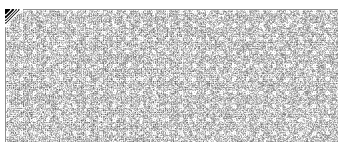
Standard : §15.247 (a)(1)

9.4 Test data

Operating mode : Transmit mode
Test Result : Pass

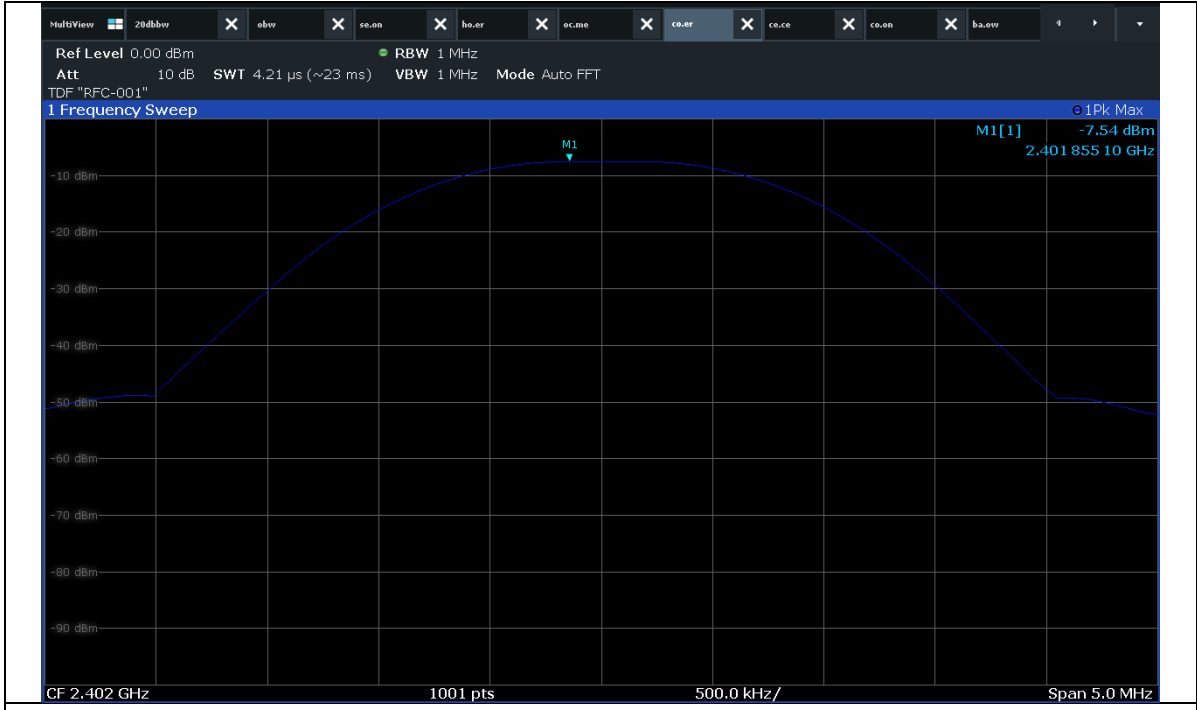
9.4.1 Measured Results

Modulation Type	Channel (Frequency)	Highest signal level (dBm)	Limit (dBm)
DH5	0 (2 402 MHz)	-7.54	30 (1 Watt)
	39 (2 441 MHz)	-7.04	
	78 (2 480 MHz)	-8.13	

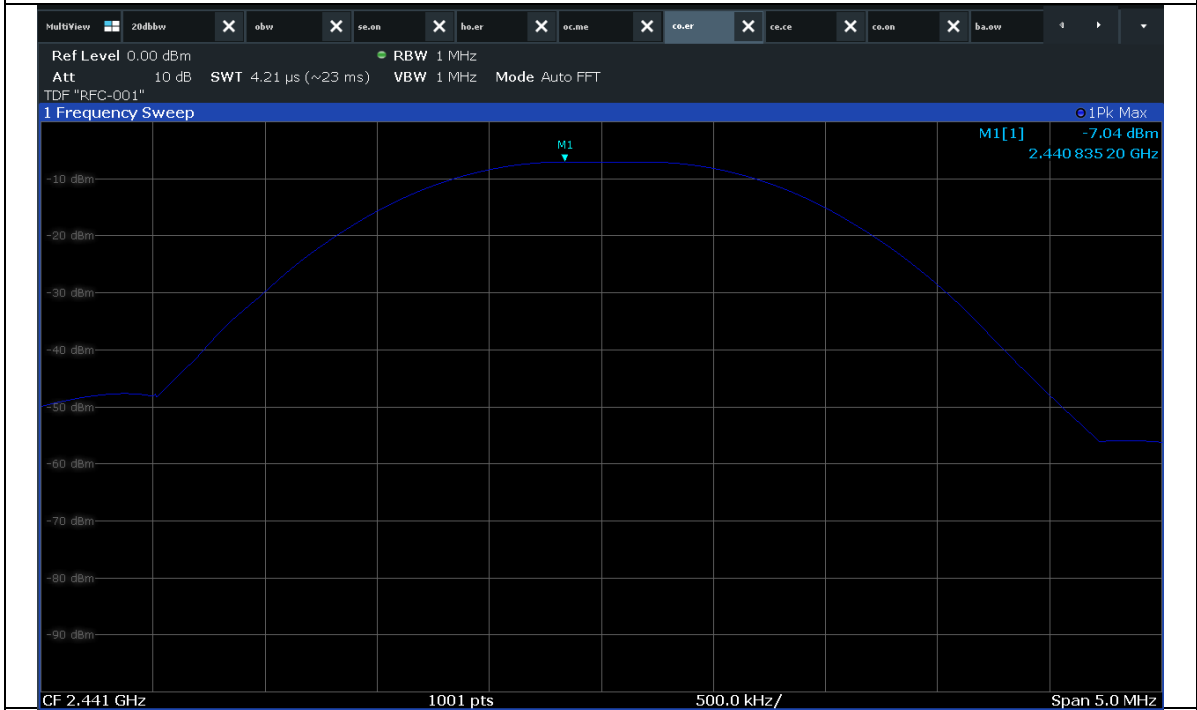




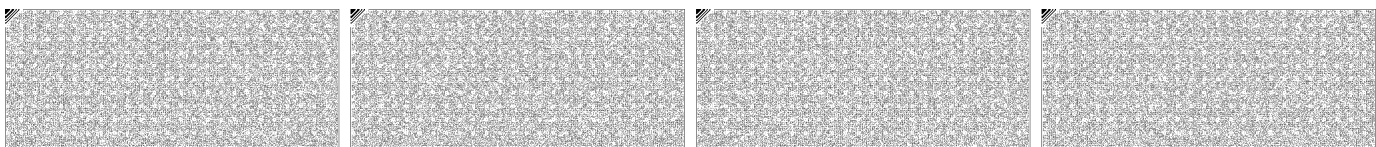
9.4.2 Measurement Graph

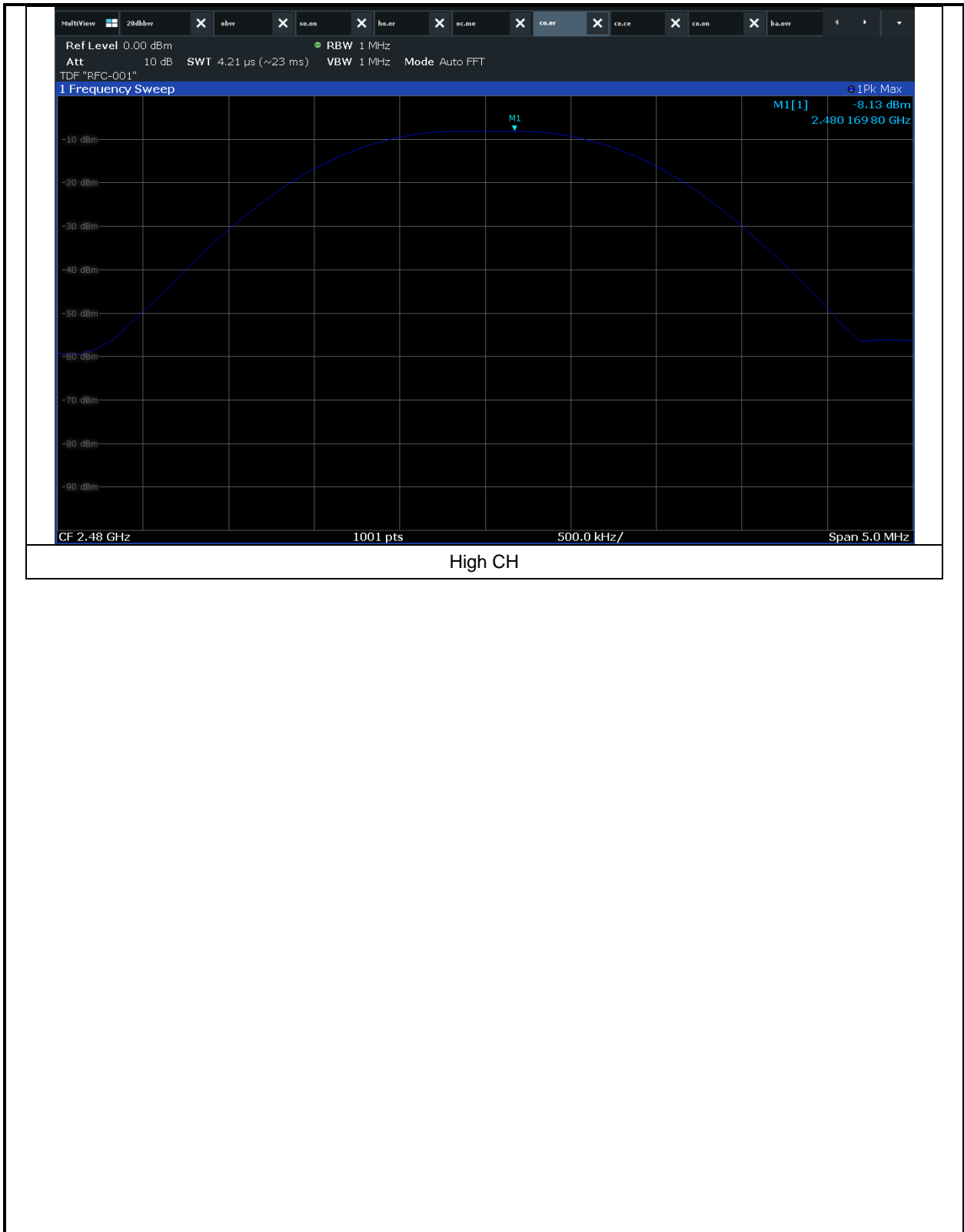


Low CH

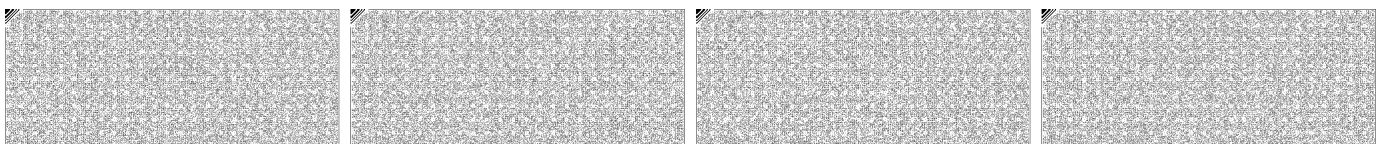


Mid CH





High CH





10. Conducted Spurious Emission

10.1 Operating environment

Temperature : 23 °C

Relative humidity : 47 %

10.2 Measurement method

Standard : ANSI 63.10 (7.8.8) / ANSI 63.(10 6.10.4)

10.3 Limit

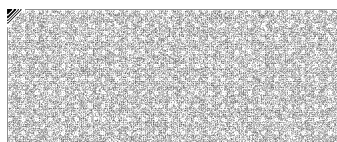
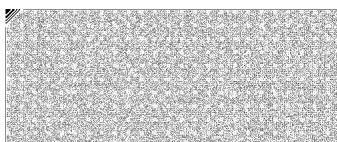
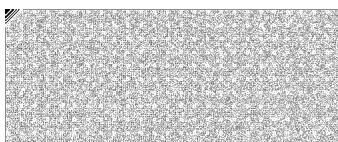
Standard : §15.247 (d)

10.4 Test data

Operating mode : Transmit mode

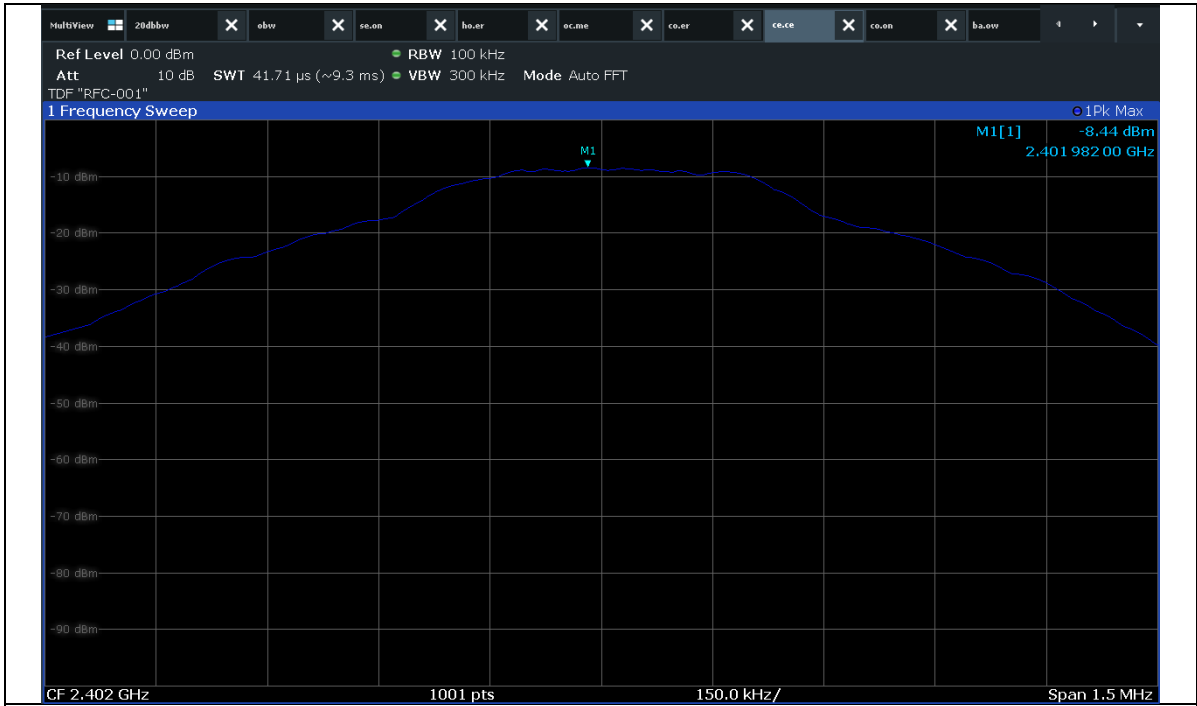
Test Result : Pass

10.4.1 Measured Results

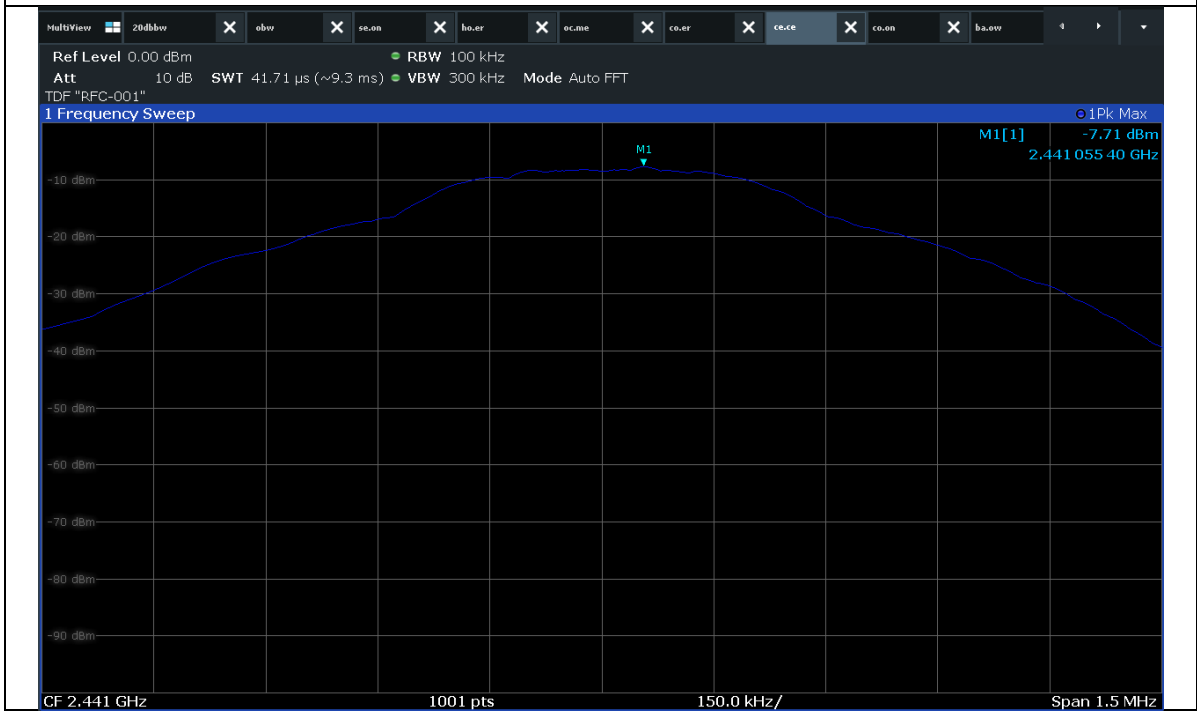




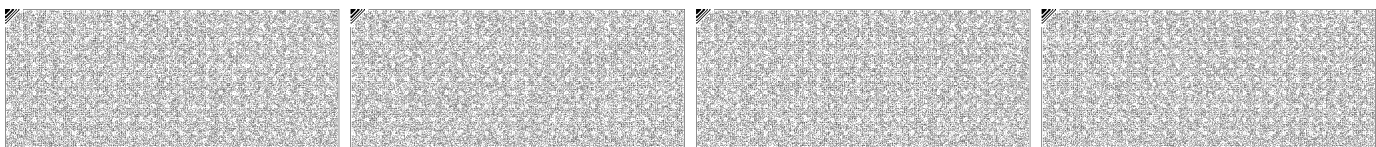
10.4.1.1 Signal level (dB m)

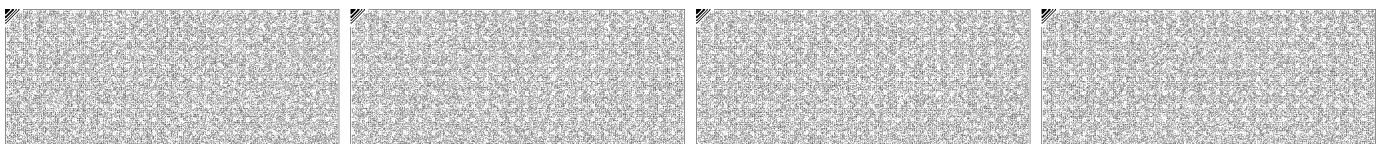
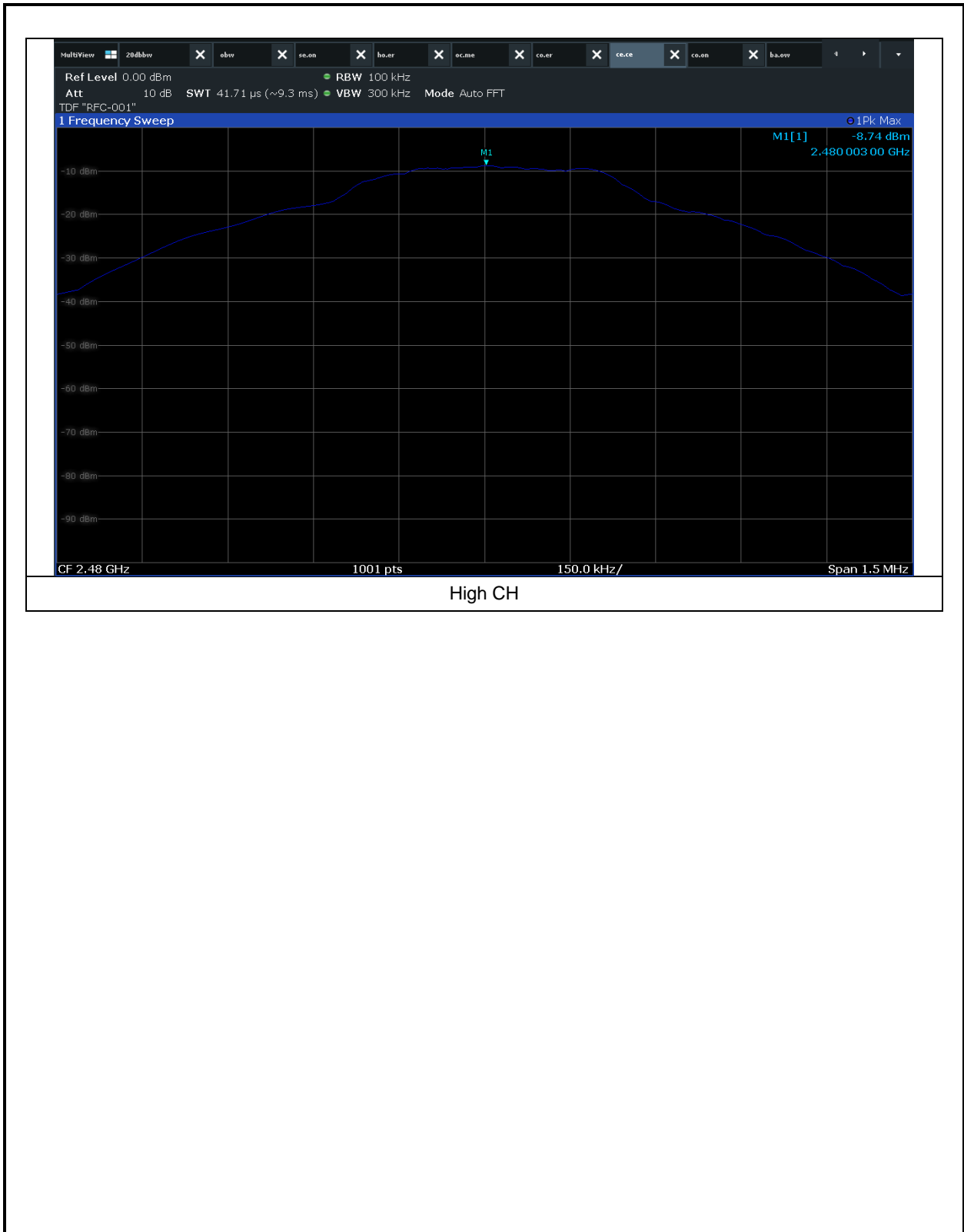


Low CH



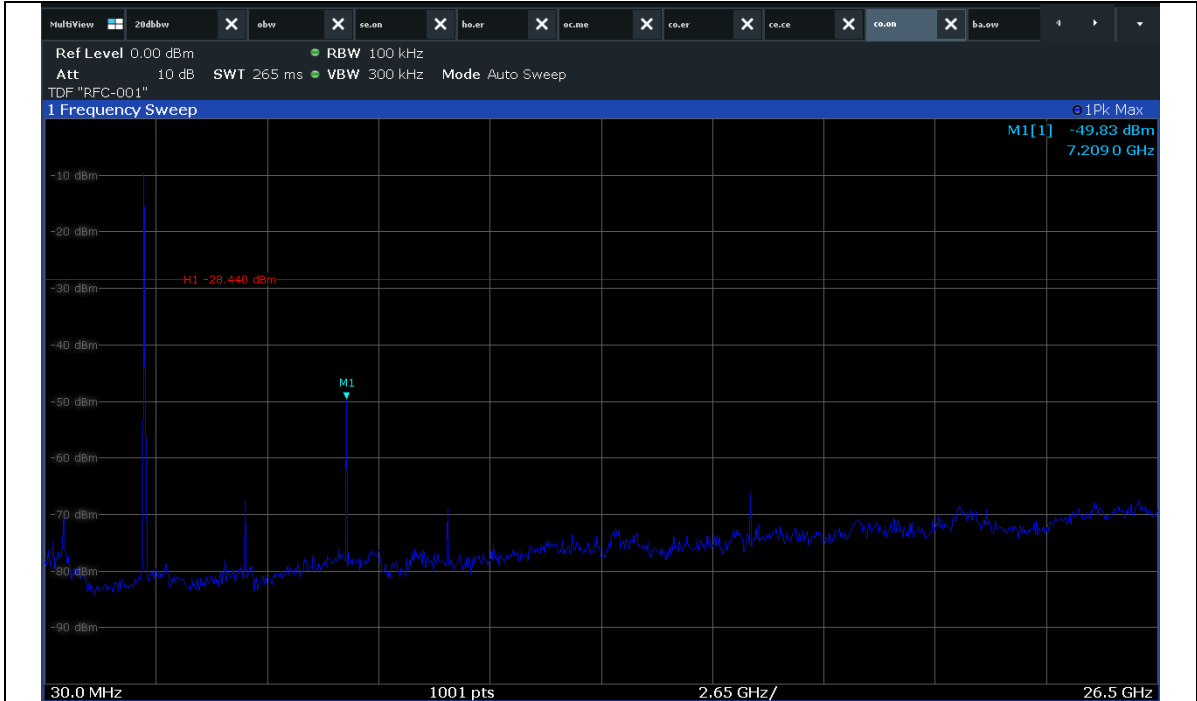
Mid CH



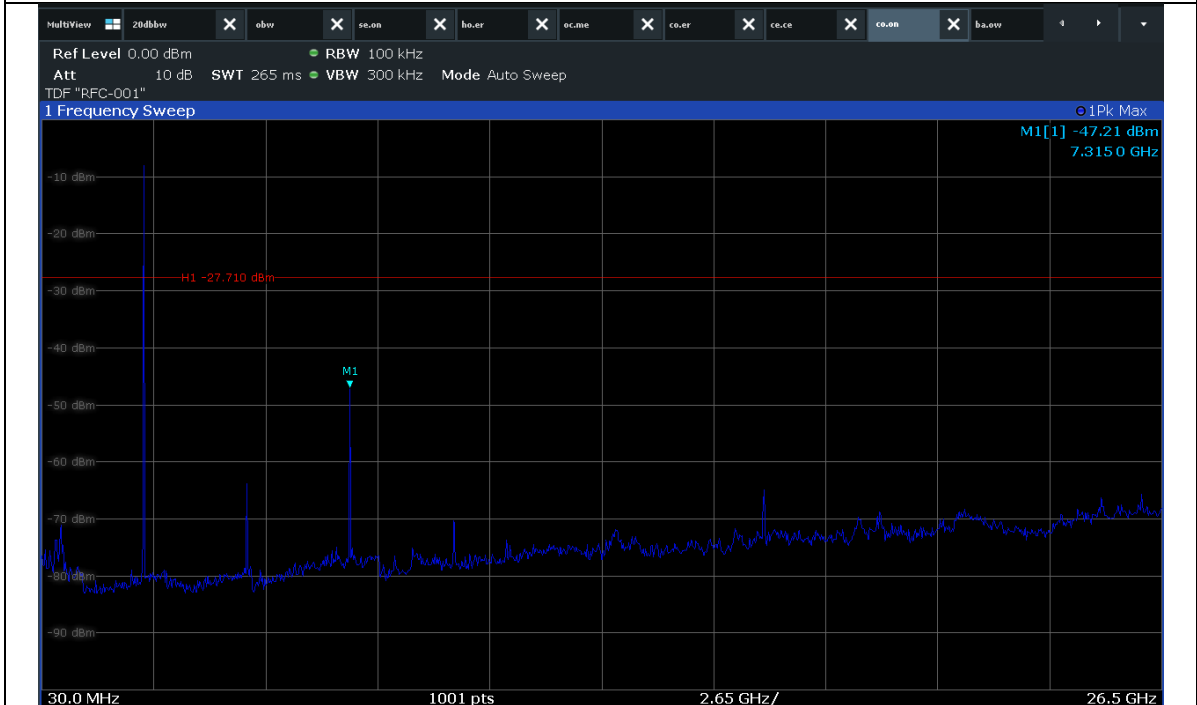




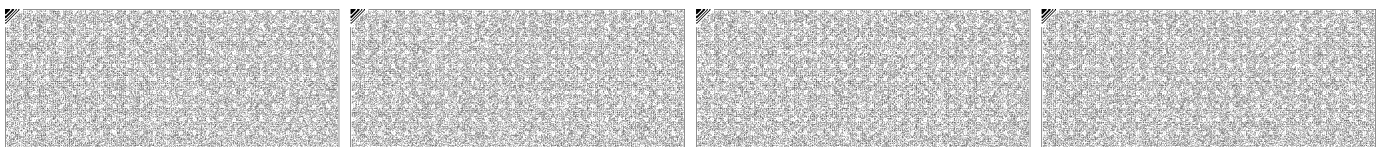
10.4.1.2 Unwanted Emissions In Non-Restricted Frequency Bands

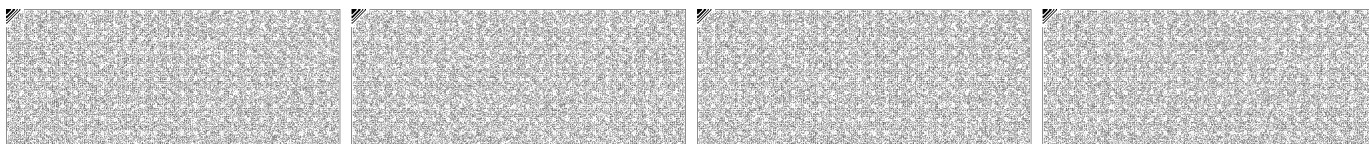
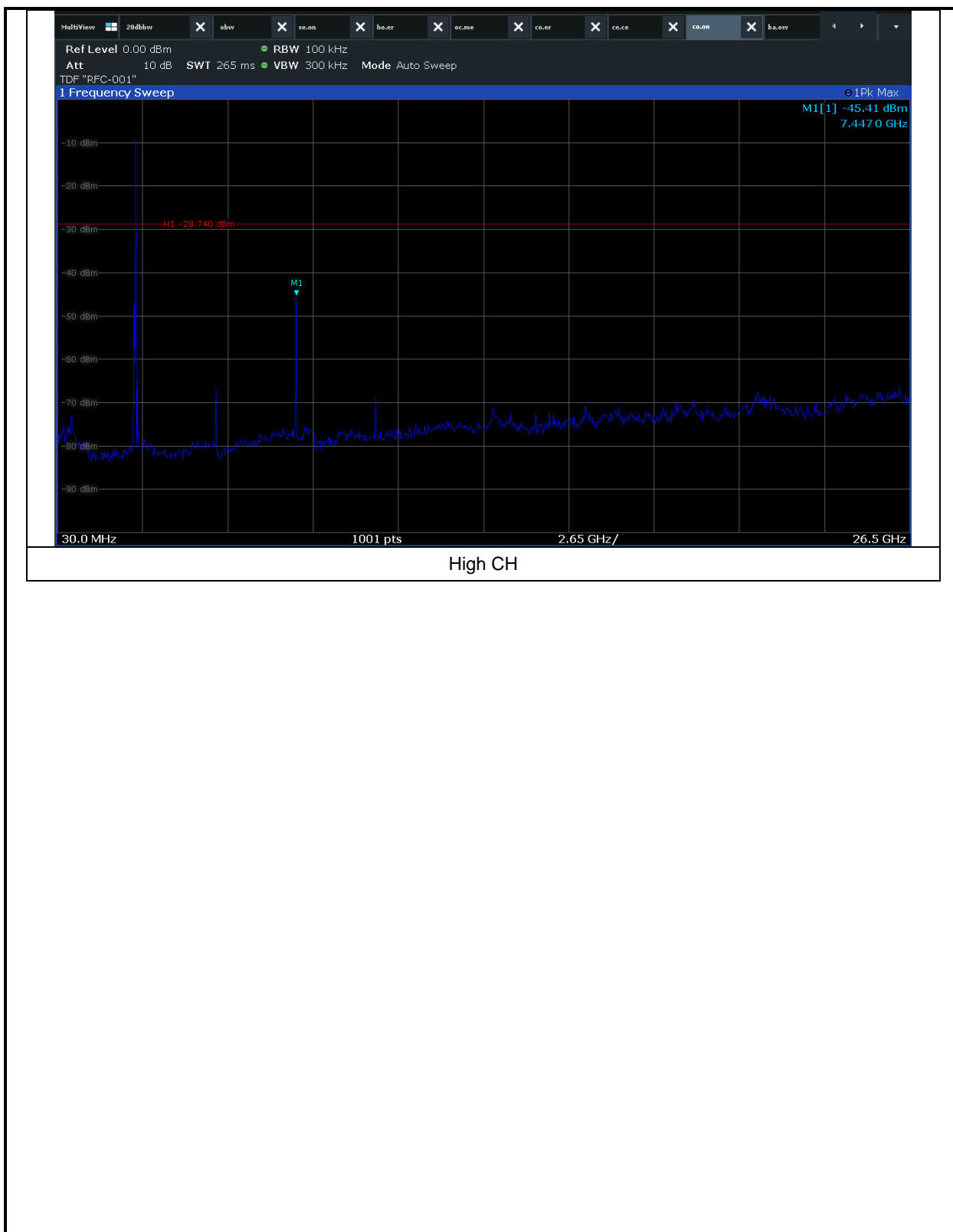


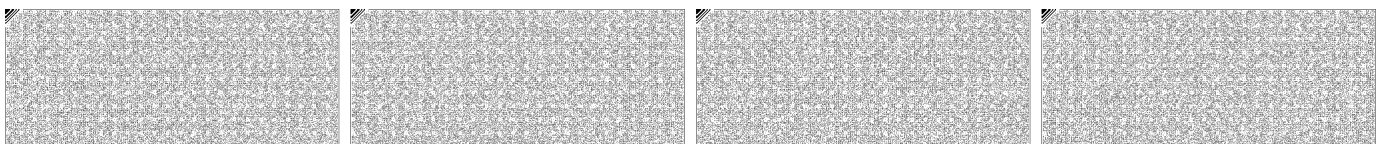
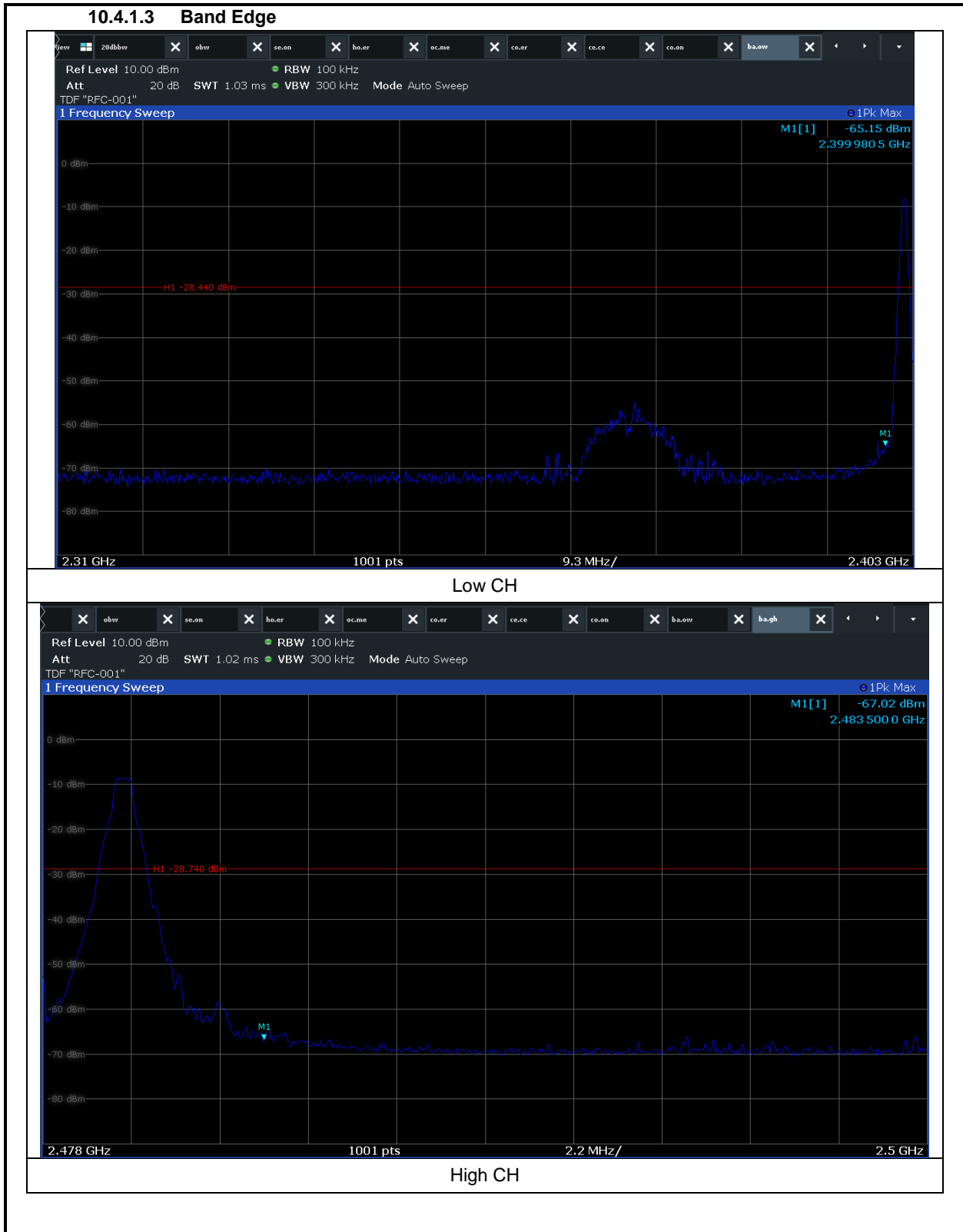
Low CH



Mid CH









11. Radiated Spurious Emission

11.1 Operating environment

Temperature : 24 °C
Relative humidity : 48 %

11.2 Measurement method

Standard : ANSI 63.10 (6.4/6.5/6.6)

11.3 Limit

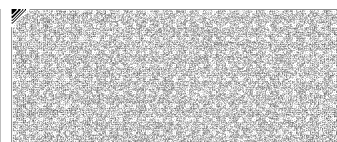
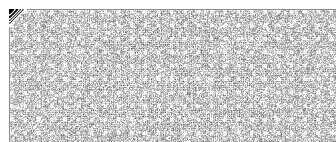
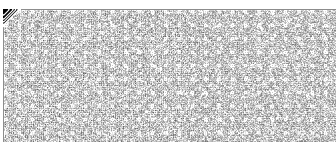
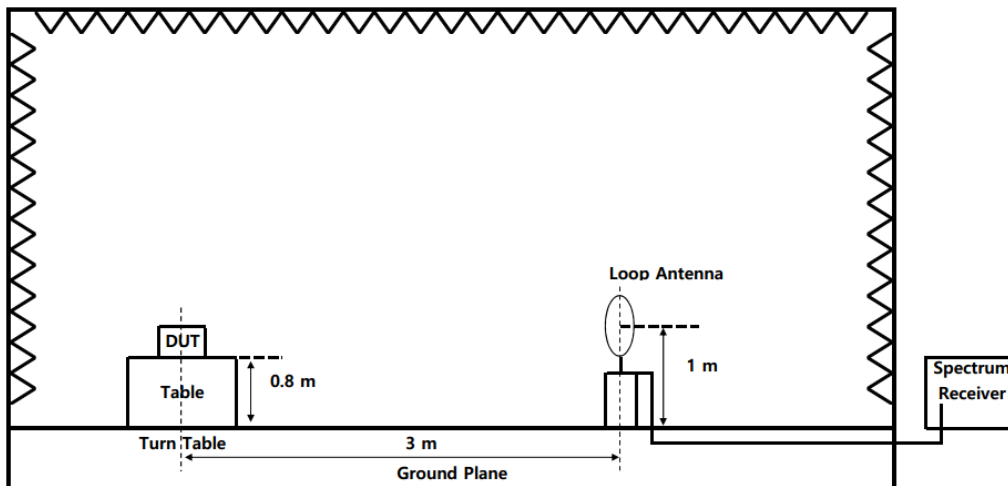
Standard : §15.205, §15.209

11.4 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.

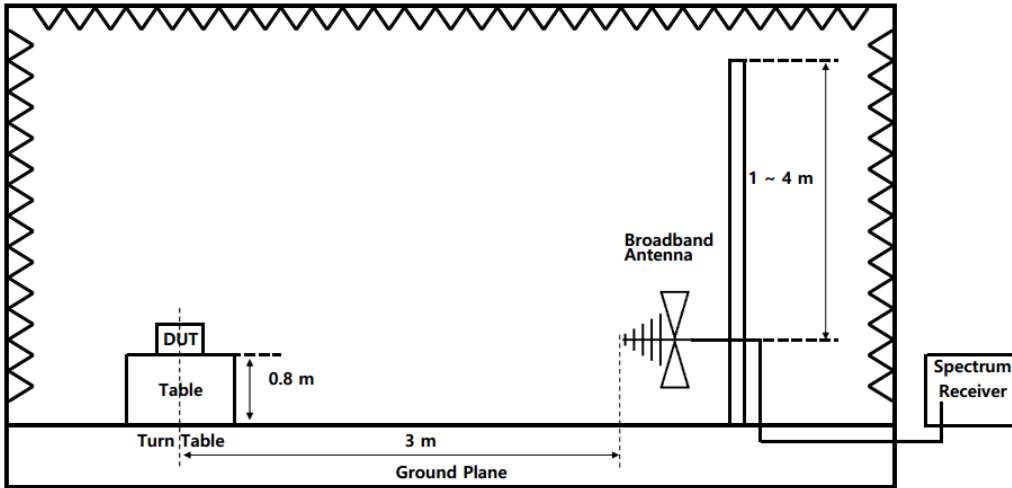
The frequency spectrum from 9 kHz to 26.5 GHz was scanned and maximum emission levels at each frequency recorded. The system was rotated 360°, and the antenna was varied in the height between 1.0 m and 4.0 m in order to determine the maximum emission levels. This procedure was performed for horizontal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

11.4.1 Below 30 MHz

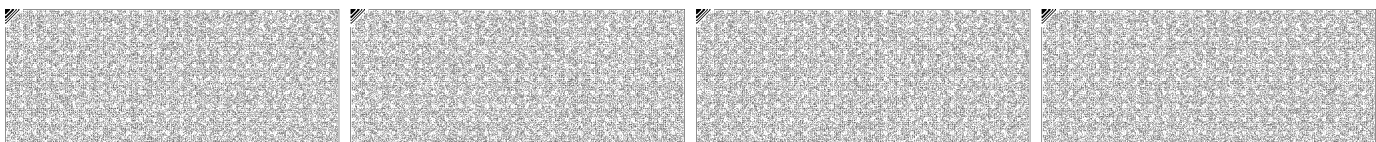
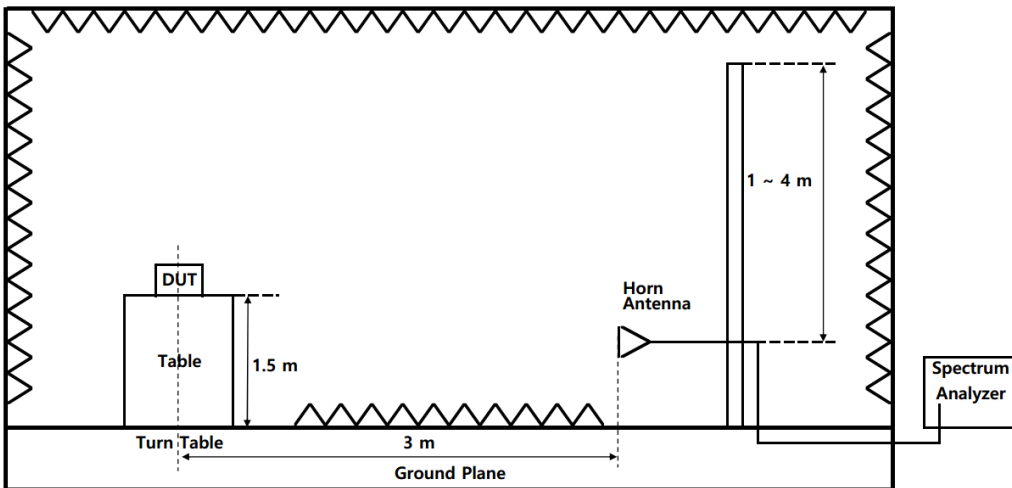




11.4.2 30 MHz to 1 GHz



11.4.3 Above 1 GHz





11.5 Test data

Operating mode : Transmit mode

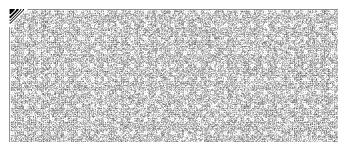
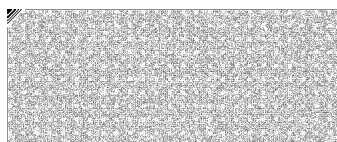
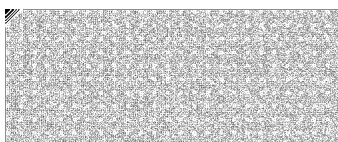
Test Result : Pass

11.5.1 Test data for Restricted band

11.5.1.1 Measure Results for DH5

Frequency (MHz)	Reading (dB μ V)	Detector	Ant. Pol. (H/V)	Corr. Factor (dB)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
Low CH							
2 389.11	50.88	Peak	V	-14.50	36.38	73.98	37.60
	32.44	Average	V		17.94	53.98	36.04
High CH							
2 484.26	53.59	Peak	V	-14.10	39.49	73.98	34.49
	35.04	Average	V		20.94	53.98	33.04

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





11.5.2 Test data for Spurious & Harmonic

11.5.2.1 Measurement Results for DH5

Measurement Results for below 30 MHz

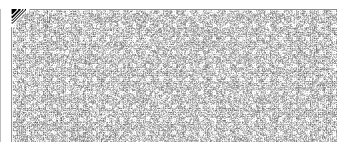
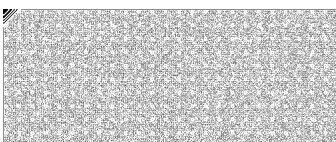
Frequency (MHz)	Reading (dB μ V)	Detector	Ant. Pol. (H/V)	Corr. Factor (dB)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
Low CH							
It was not found any emissions peaks found from the EUT.							
Mid CH							
It was not found any emissions peaks found from the EUT.							
High CH							
It was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

※ Ant. Pol. : Antenna Polarization

※ Corr. Factor. : Antenna Factor + Cable Loss - Amplifier Gain

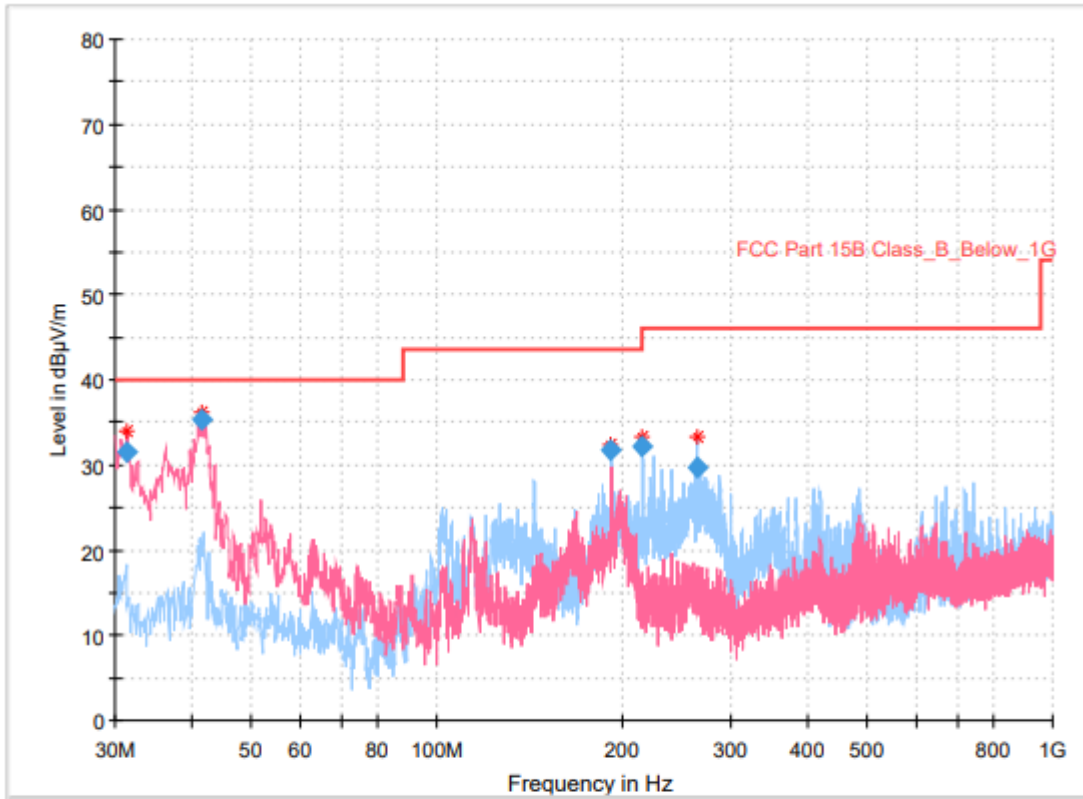
※ Result = Reading + Corr. Factor

※ Margin = Limit - Result





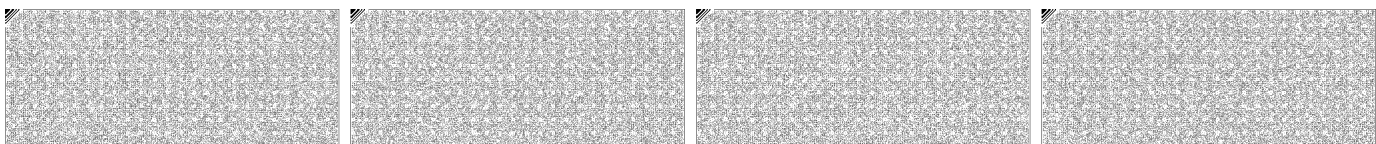
Measurement Results for below 1 GHz

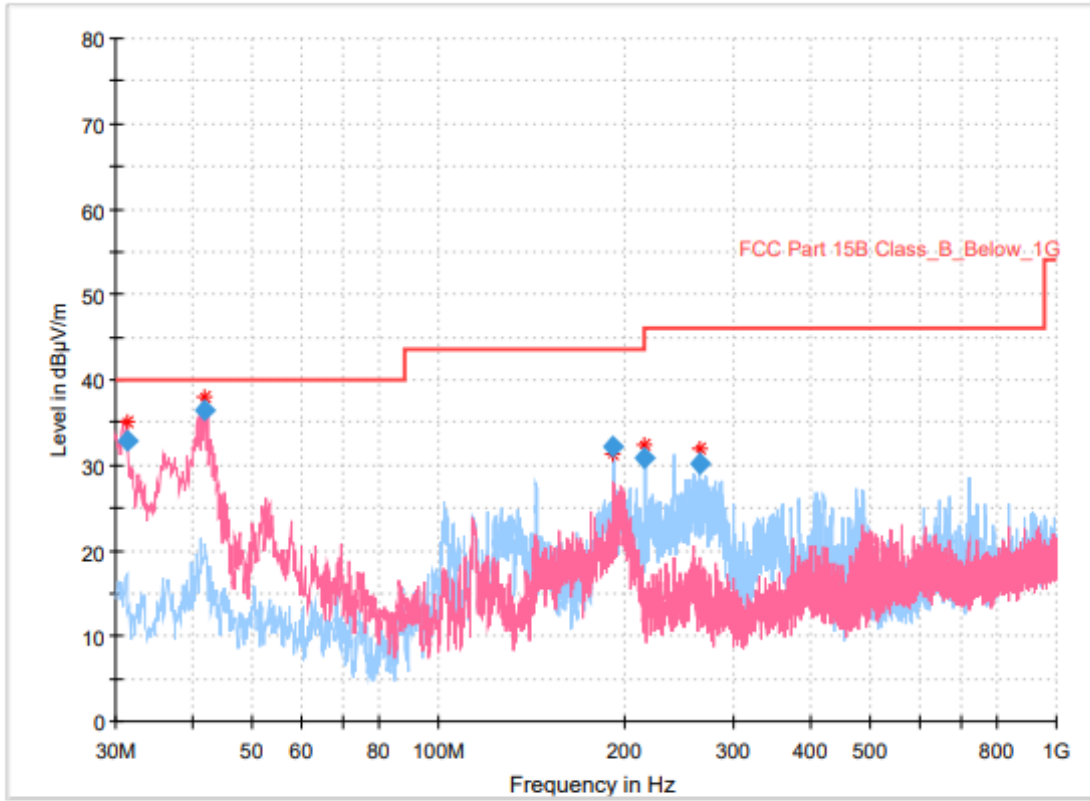


Final Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
31.455000	31.56	40.00	8.44	1000.0	120.000	99.9	V	0.0	-26.4
41.543000	35.42	40.00	4.58	1000.0	120.000	99.9	V	122.0	-23.2
191.990000	31.67	43.50	11.83	1000.0	120.000	99.9	H	3.0	-24.7
215.949000	32.18	43.50	11.32	1000.0	120.000	99.9	H	116.0	-24.2
263.867000	29.67	46.00	16.33	1000.0	120.000	99.9	H	24.0	-21.9

Low CH

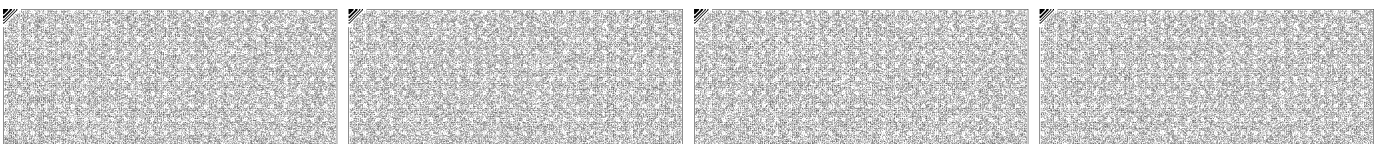


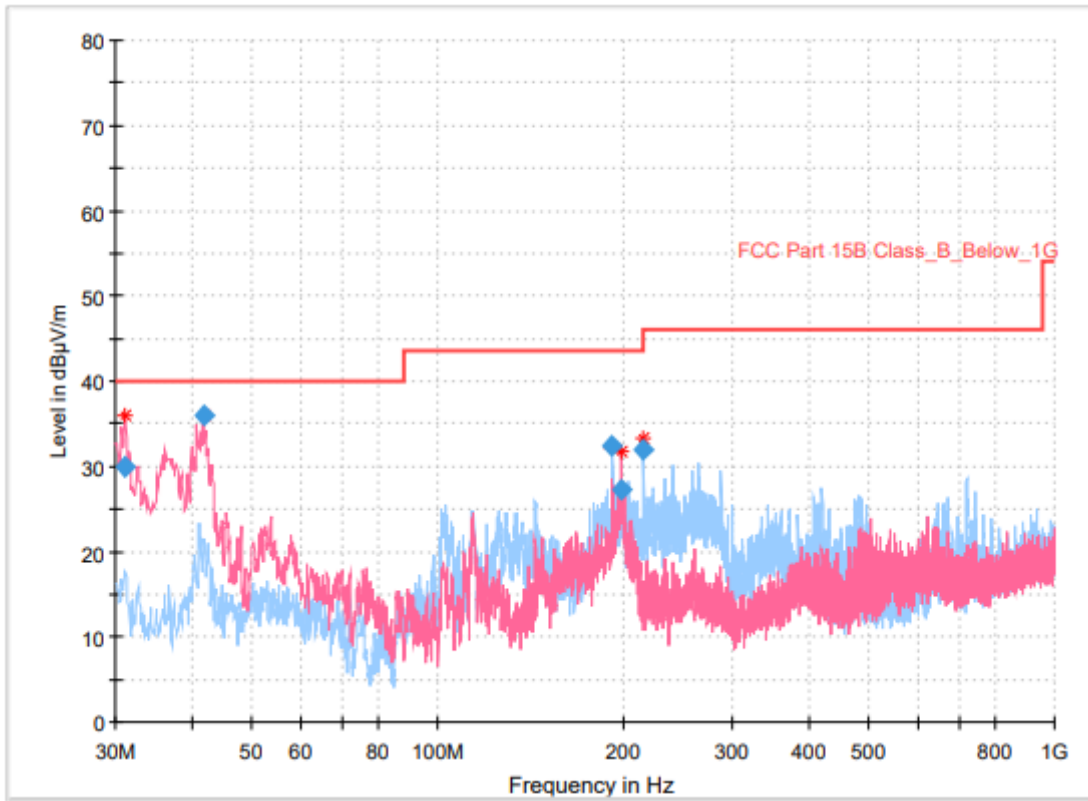


Final Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
31.261000	32.93	40.00	7.07	1000.0	120.000	99.9	V	358.0	-26.4
41.931000	36.35	40.00	3.65	1000.0	120.000	99.9	V	25.0	-23.1
191.990000	32.24	43.50	11.26	1000.0	120.000	99.9	H	141.0	-24.7
215.949000	30.92	43.50	12.58	1000.0	120.000	99.9	H	141.0	-24.2
264.061000	30.25	46.00	15.75	1000.0	120.000	99.9	H	18.0	-21.9

Mid CH

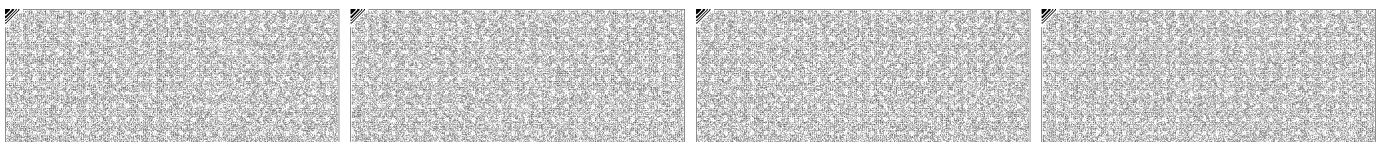




Final Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
31.067000	29.96	40.00	10.04	1000.0	120.000	99.9	V	228.0	-26.4
41.737000	36.05	40.00	3.95	1000.0	120.000	99.9	V	81.0	-23.2
191.990000	32.48	43.50	11.02	1000.0	120.000	99.9	H	137.0	-24.7
198.586000	27.25	43.50	16.25	1000.0	120.000	99.9	V	81.0	-23.7
216.046000	32.00	46.00	14.00	1000.0	120.000	99.9	H	96.0	-24.2

High CH





페이지(page) : (36)/(총(Total) 40)

Measurement Results for Above 1 GHz

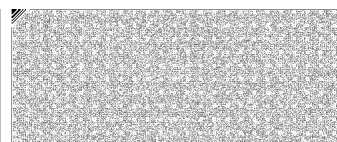
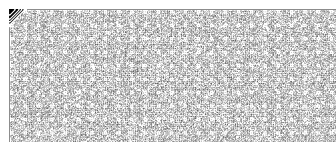
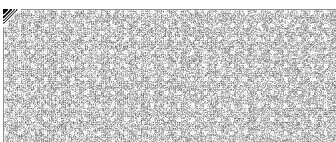
Frequency (MHz)	Reading (dB μ V)	Detector	Ant. Pol. (H/V)	Corr. Factor (dB)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
Low CH							
4 804.60	55.70	Peak	V	-3.90	51.80	73.98	22.18
	46.45	Average	V		42.55	53.98	11.43
7 205.00	49.78	Peak	V	0.70	50.48	73.98	23.50
	34.67	Average	V		35.37	53.98	18.61
9 608.80	39.48	Peak	V	3.60	43.08	73.98	30.90
	26.07	Average	V		29.67	53.98	24.31
Mid CH							
4 881.10	51.86	Peak	V	-3.40	48.46	73.98	25.52
	37.04	Average	V		33.64	53.98	20.34
7 322.30	56.58	Peak	H	0.70	57.28	73.98	16.70
	40.17	Average	H		40.87	53.98	13.11
9 761.80	39.40	Peak	V	3.90	43.30	73.98	30.68
	25.84	Average	V		29.74	53.98	24.24
High CH							
4 959.30	56.27	Peak	V	-3.20	53.07	73.98	20.91
	43.58	Average	V		40.38	53.98	13.60
7 439.60	60.80	Peak	H	1.00	61.80	73.98	12.18
	50.85	Average	H		51.85	53.98	2.13
9 921.60	38.82	Peak	H	4.20	43.02	73.98	30.96
	25.22	Average	H		29.42	53.98	24.56

※ Ant. Pol. : Antenna Polarization

※ Corr. Factor. : Antenna Factor + Cable Loss - Amplifier Gain

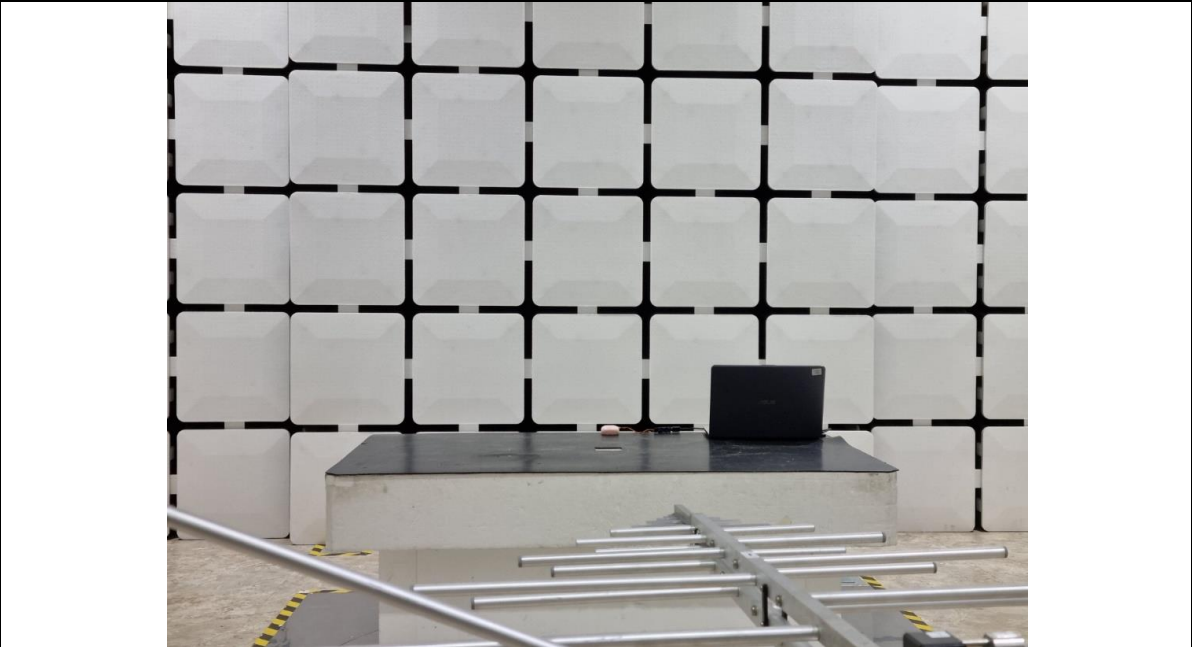
※ Result = Reading + Corr. Factor

※ Margin = Limit - Result





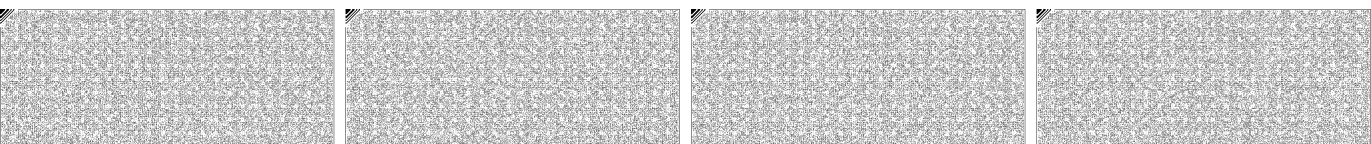
12. Test Setup Photos

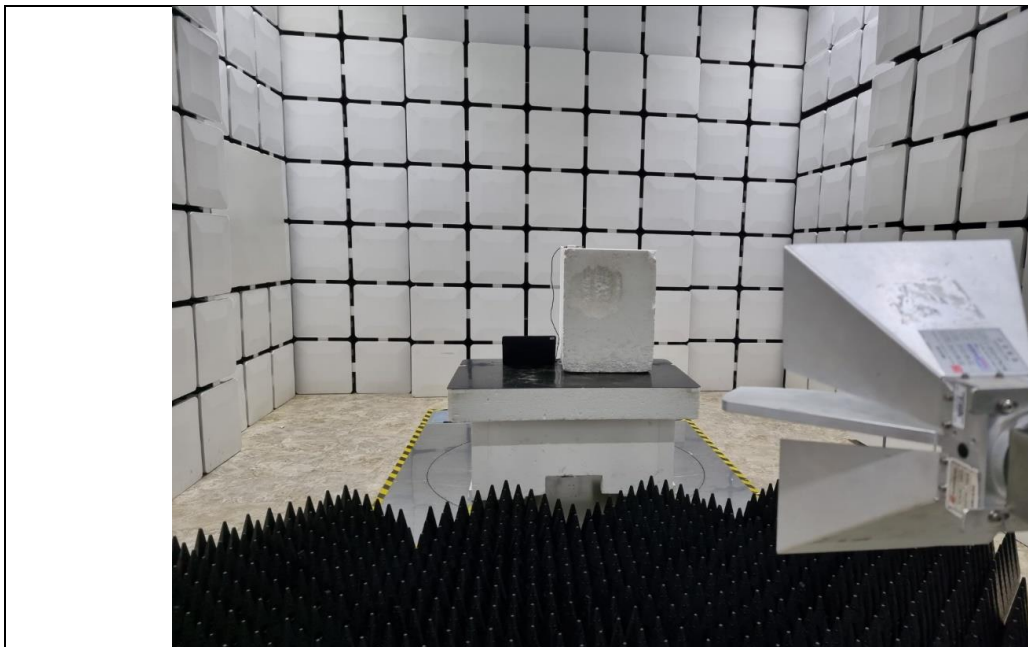


Below 1G Front

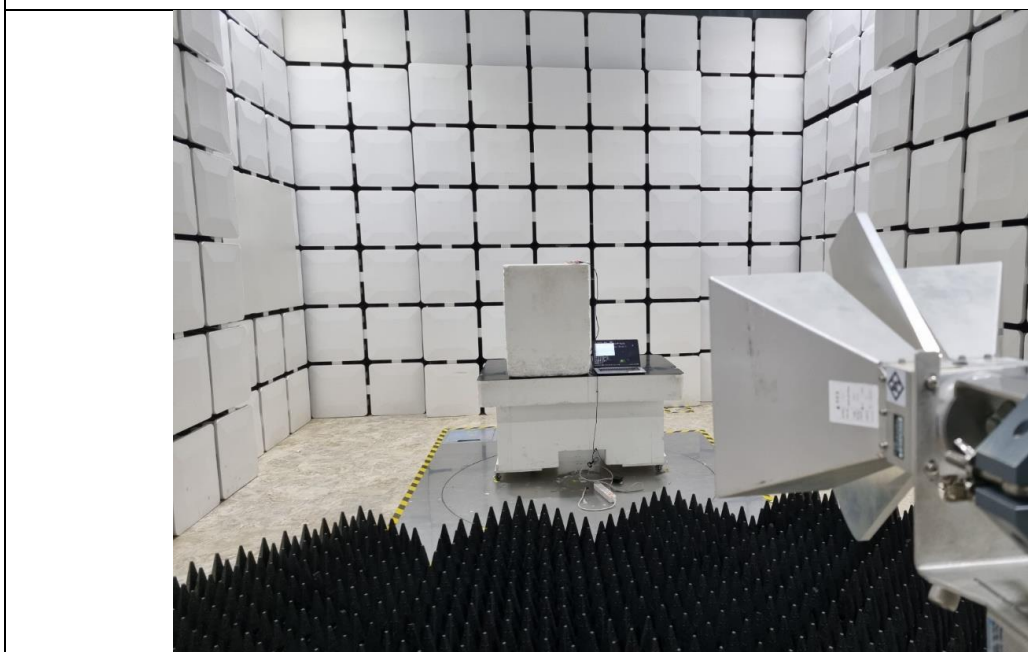


Below 1G Rear





Above 1G Front



Above 1G Rear

- END -

