



시험 성적서

TEST REPORT

페이지(page) : (1) / (총(Total) 52)

성적서 번호 Report No.		ICRT-TR-E222143-0A	
신청자 Client	기관명 Name	MaxiEcu sp. z o.o. sp. k.	
	주 소 Address	Stanislawy Fleszarowej-Muskat 7, 81-589 Gdynia, POLAND	
시험대상품목 Sample description		IV generation MaxiEcu interface	
모델명 Type designation		4GENBTM	
정 격 Ratings		DC 12 V	
시험장소 Place of test		☒ 고정시험(Inside test) ☐ 현장시험(Field test) 주소지(Address): 112, Hwanggeum 3-ro 7beon-gil, Hagun-ri, Yangchon-eup, Gimpo-si, Gyeonggi-do, Korea	
시험기간 Date of test		13. Jul. 2022 ~ 28. Jul. 2022	
시험방법/항목 Test Method/Item		FCC Part 15 Subpart C §15.247	
시험결과 Test Results		Refer to 3. Test Summary	
확 인 Affirmation	작성자 Tested by	기술책임자 Technical Manager	
	성 명 Name	성 명 Name	
	Yeong-Hwan, Hong (서명)	Min-Gi, Son (서명)	
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2022. 08. 22 주식회사 아이씨알 대표이사 The head of INTERNATIONAL CERTIFICATION REGISTRAR 			

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Revision History

Issued Report No.	Issued Date	Revisions	Effect Section
ICRT-TR-E222143-0A	2022.08.22	Initial Issue	All



1. Applicant & Manufacturer & Test Laboratory Information

1.1 Applicant information

Applicant	MaxiEcu sp. z o.o. sp. k.
Address	Stanislawy Fleszarowej-Muskat 7, 81-589 Gdynia, POLAND
Contact Person	Marcin Popow
Telephone No.	48-586-760-267
Fax No.	-
E-mail	marcin@maxiecu.com

1.2 Manufacturer Information

Manufacturer	MaxiEcu sp. z o.o. sp. k.
Address	Stanislawy Fleszarowej-Muskat 7, 81-589 Gdynia, POLAND

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	IV generation MaxiEcu interface
Brand Name	-
Model Name	4GENBTM
Additional Model Name	-
FCC ID	2A3CS4GENBTM
Power Supply	DC 12 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	3.52 dBm
Number of Channel	79
Modulation Type	Bluetooth BDR/EDR : FHSS
Antenna Type	Chip Antenna
Antenna Gain	2 dBi
Antenna Operating Mode	Single Antenna Equipment with only one antenna

2.3 Test Frequency

Test mode	Test frequency (MHz)		
	Lowest frequency	Middle frequency	High frequency
GFSK	2 402	2 441	2 480
$\pi/4$ -DQPSK	2 402	2 441	2 480
8DPSK	2 402	2 441	2 480

2.4 Worst-Case

BDR	DH5(GFSK)
EDR	3-DH5(8DPSK)

Note: The power measurement has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates.



2.5 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.

2.6 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)(i)	20 dB Bandwidth & 99 % Bandwidth	☒	PASS
§15.247 (a)(1)	Carrier Frequency Separation	☒	PASS
§15.247 (a)(1) (iii)	Number of Hopping Frequencies	☒	PASS
§15.247 (a)(1) (iii)	Time of Occupancy (dwell Time)	☒	PASS
§15.247 (a)(1)	Output Power	☒	PASS
§15.247 (d)	Conducted Spurious Emission & Band edge (Non-Restricted band)	☒	PASS
§15.209 §15.205	Radiated Spurious Emission(Restricted band)	☒	PASS

Note : This test report is prepared according to the requirements of ISO / IEC 17025.

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 **Chip Antenna**. The directional gain of the antenna is 2 *dB i*



4. Used equipment on test

	Description	Model Name	Manufacturer	Serial Number	Next Cal. (cycle)
☒	Spectrum analyzer	FSW85	R&S	101306	2023-03-02 (1Y)
☒	Signal Generator	SMB100A	R&S	180607	2023-03-03 (1Y)
☒	DC Power Supply	XDL 35-5P	Sorensen	J00385373	2023-03-03 (1Y)
☒	10 dB Attenuator	WA54-10-11	Weinschel	-	2023-03-07 (1Y)
☒	Loop Antenna	HFH2-Z2	Rohde & Schwarz	100506	2023-07-05 (2Y)
☒	TRILOG BROADBAND ANTENNA	VULB9162	SCHWARZBECK	143	2022-12-08 (2Y)
☒	RF Pre Amplifier	SCU08	Rohde & Schwarz	100747	2023-04-13 (1Y)
☒	EMI Test Receiver	ESR7	Rohde & Schwarz	102034	2023-04-13 (1Y)
☒	Horn Antenna	HF907	Rohde & Schwarz	102556	2022-08-18 (1Y)
☒	RF Pre Amplifier	SCU18	Rohde & Schwarz	102342	2023-04-13 (1Y)
☒	EMI Test Receiver	ESR26	Rohde & Schwarz	101462	2023-04-13 (1Y)
☒	Horn Antenna	LB-42-10-C-KF	AIBFO Inc.	J202024625	2023-03-10 (1Y)
☒	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 & 99 % 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)	99 % Occupied Bandwidth (kHz)
DH5	0 (2 402 MHz)	915.10	820.67
	39 (2 441 MHz)	919.10	822.87
	78 (2 480 MHz)	921.10	830.20
3-DH5	0 (2 402 MHz)	1 294.70	1 178.22
	39 (2 441 MHz)	1 292.70	1 177.49
	78 (2 480 MHz)	1 298.70	1 186.40



5.4.2 Measured Graph (20 dB Bandwidth)



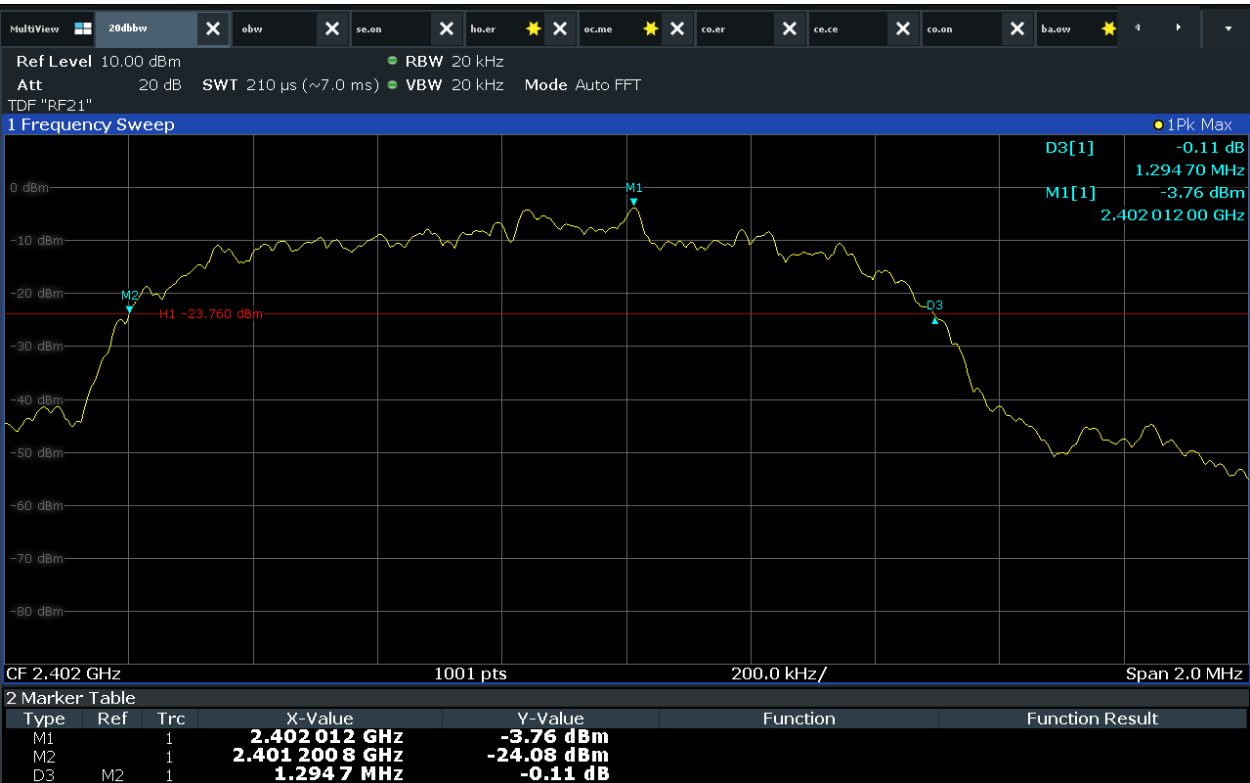
Low CH (DH5)



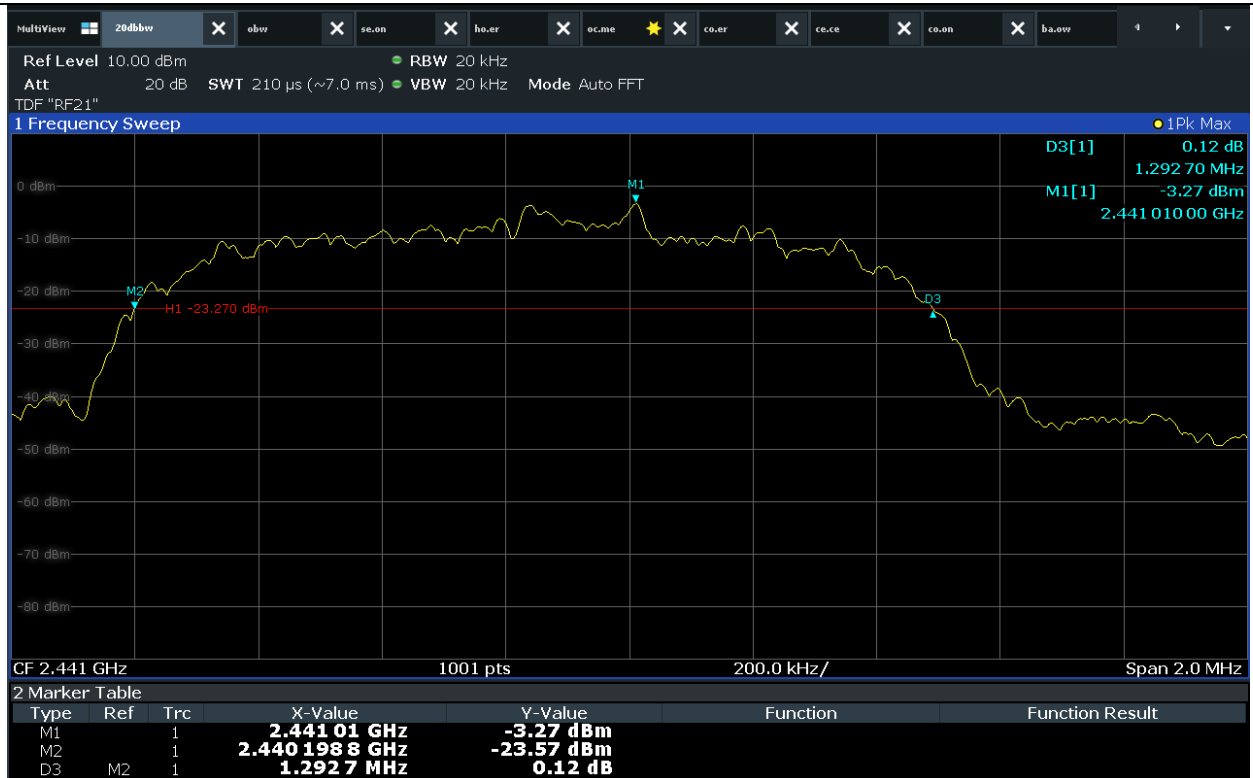
Mid CH (DH5)



High CH (DH5)



Low CH (3DH5)



Mid CH (3DH5)



High CH (3DH5)



5.4.3 Measured Graph (99 % Bandwidth)



Low CH (DH5)



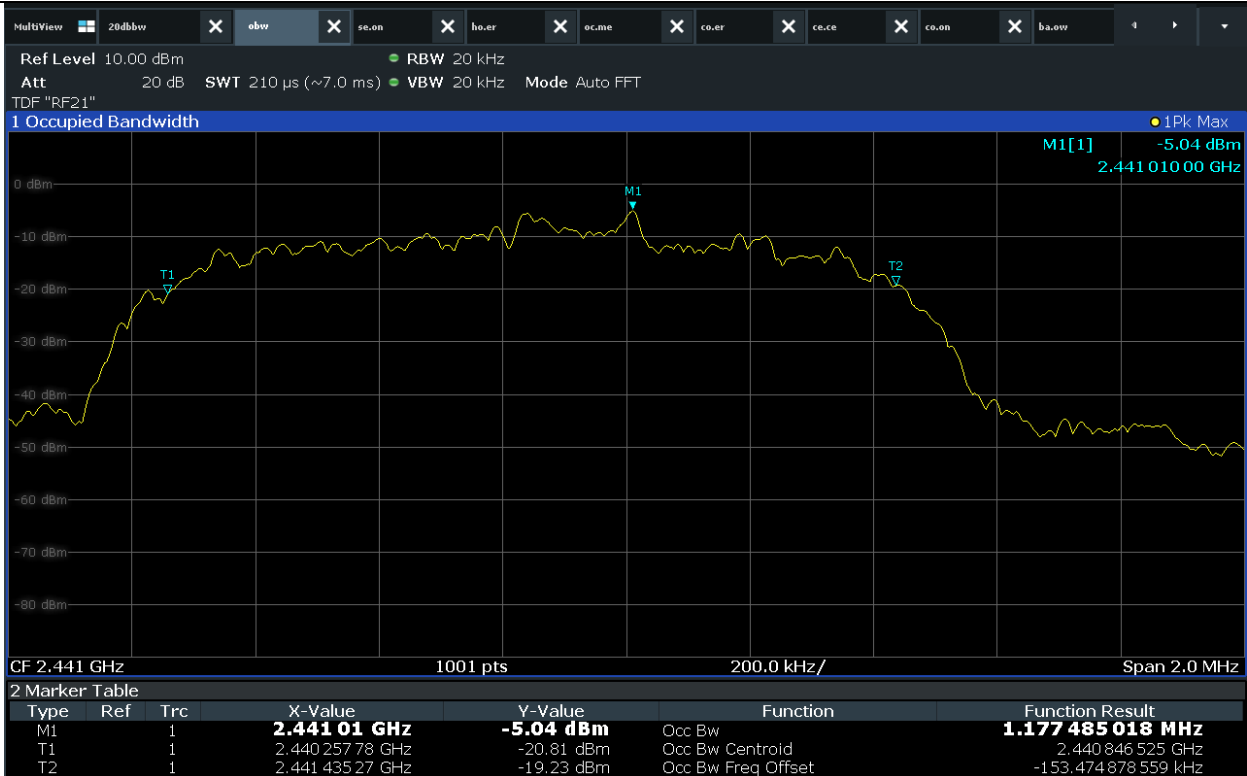
Mid CH (DH5)



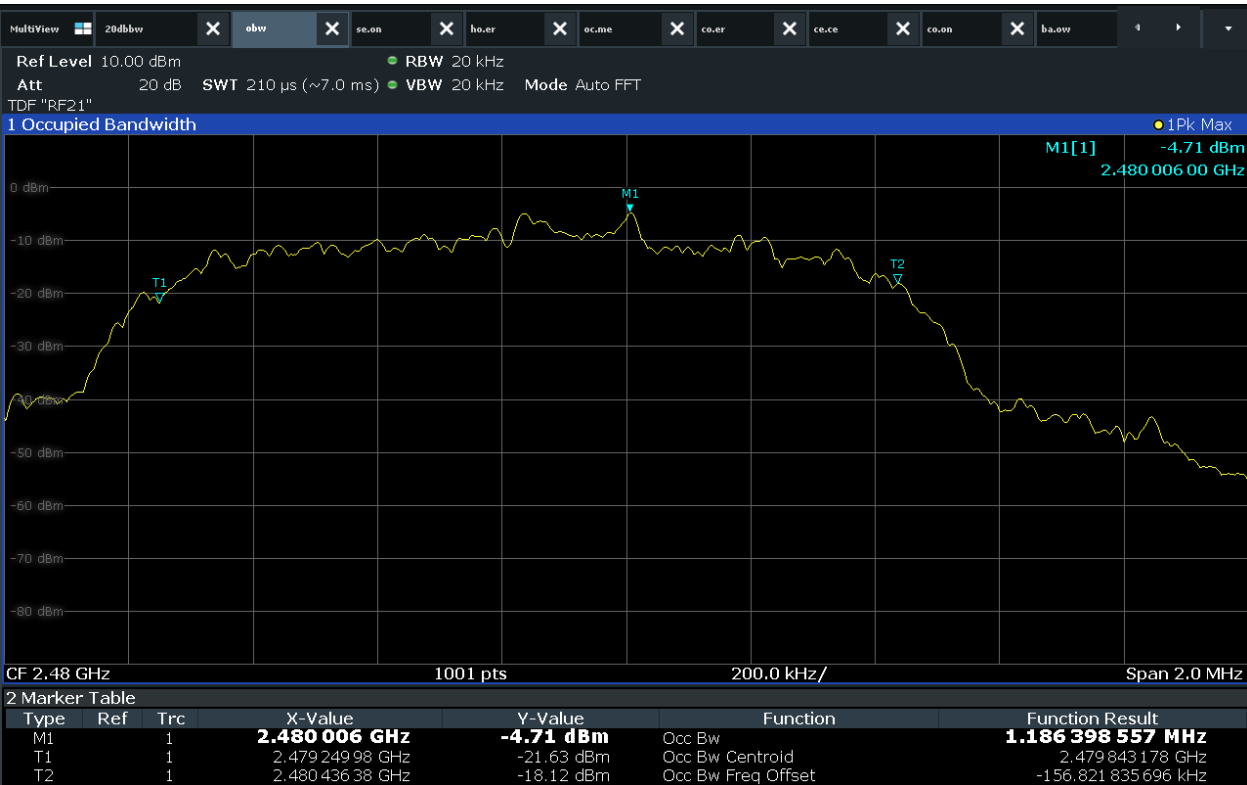
High CH (DH5)



Low CH (3DH5)



Mid CH (3DH5)



High CH (3DH5)



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

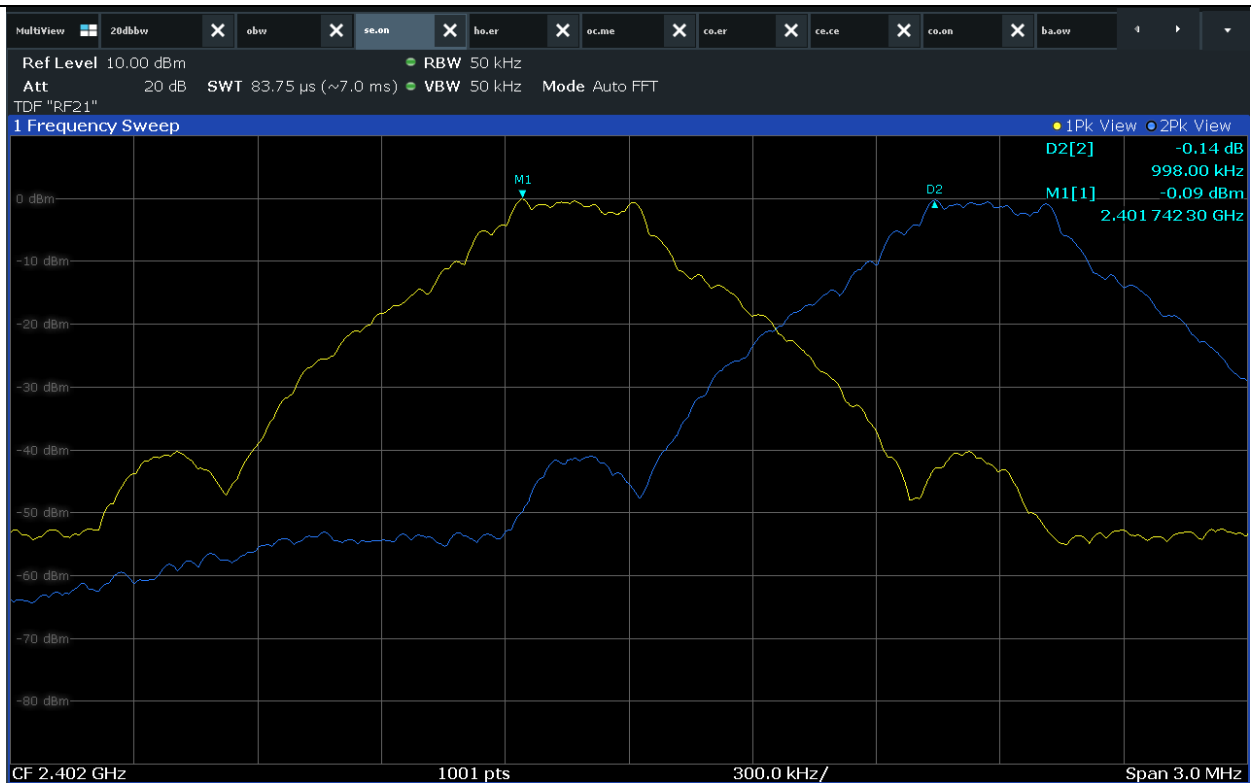
Test Result : Pass

6.4.1 Measured Results

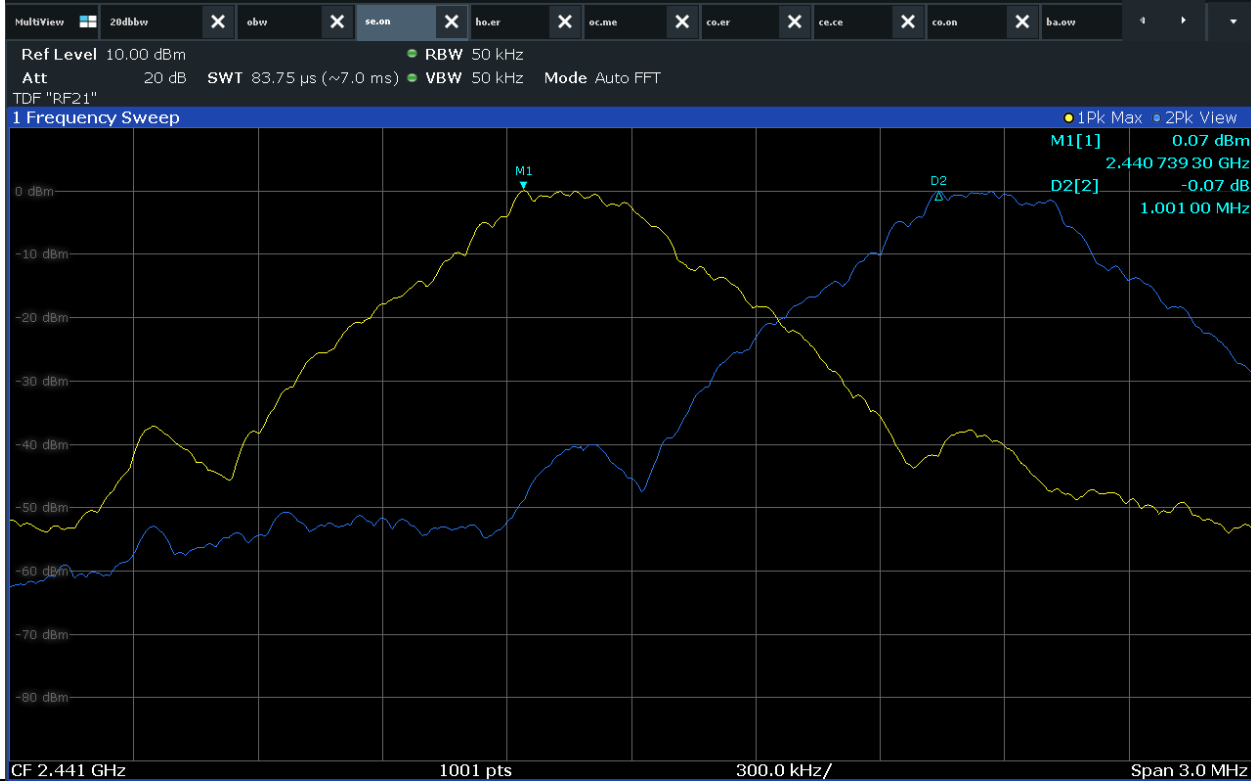
Modulation type	Channel (Frequency)	Separation (kHz)	Two-third 20 dB bandwidth of the hopping channel (kHz)	Limit
DH5	0 (2 402 MHz)	998.00	610.07	25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater
	39 (2 441 MHz)	1 001.00	612.73	
	78 (2 480 MHz)	1 001.00	614.07	
3-DH5	0 (2 402 MHz)	1 001.00	863.13	
	39 (2 441 MHz)	998.00	861.80	
	78 (2 480 MHz)	1 004.00	865.80	



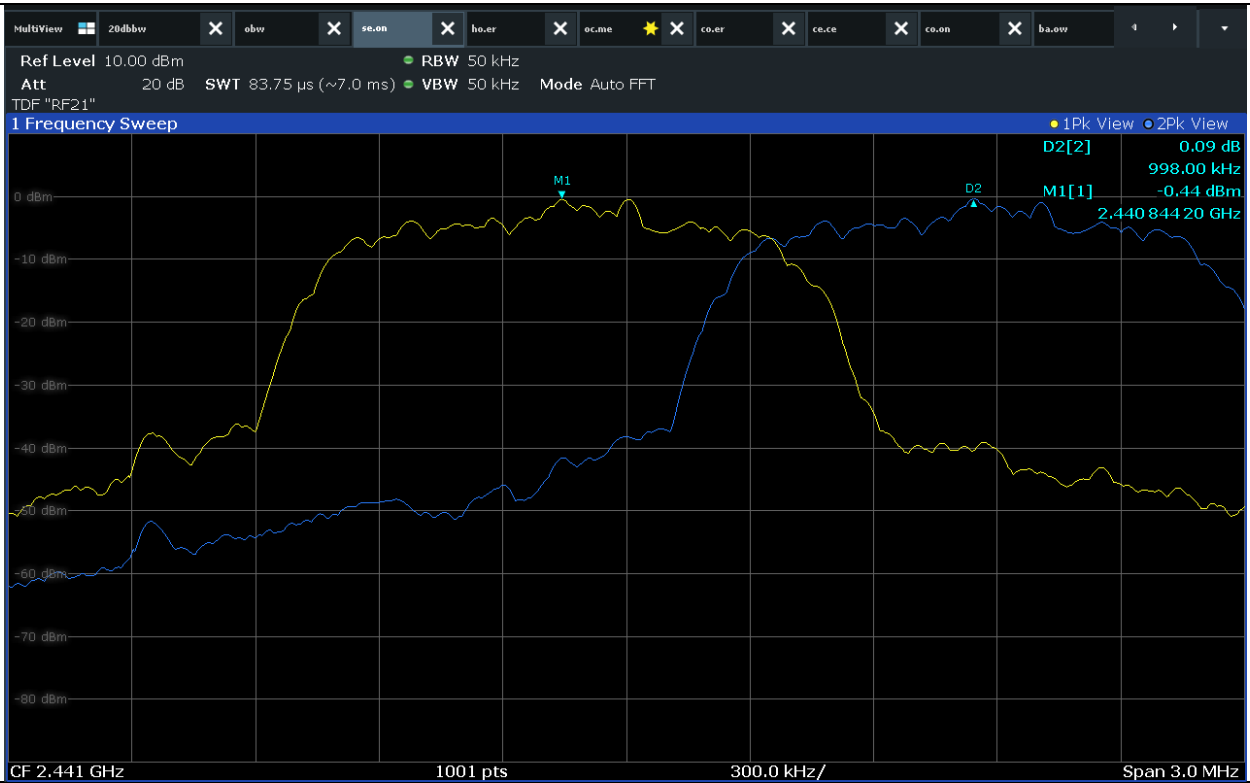
6.4.2 Measured Graph



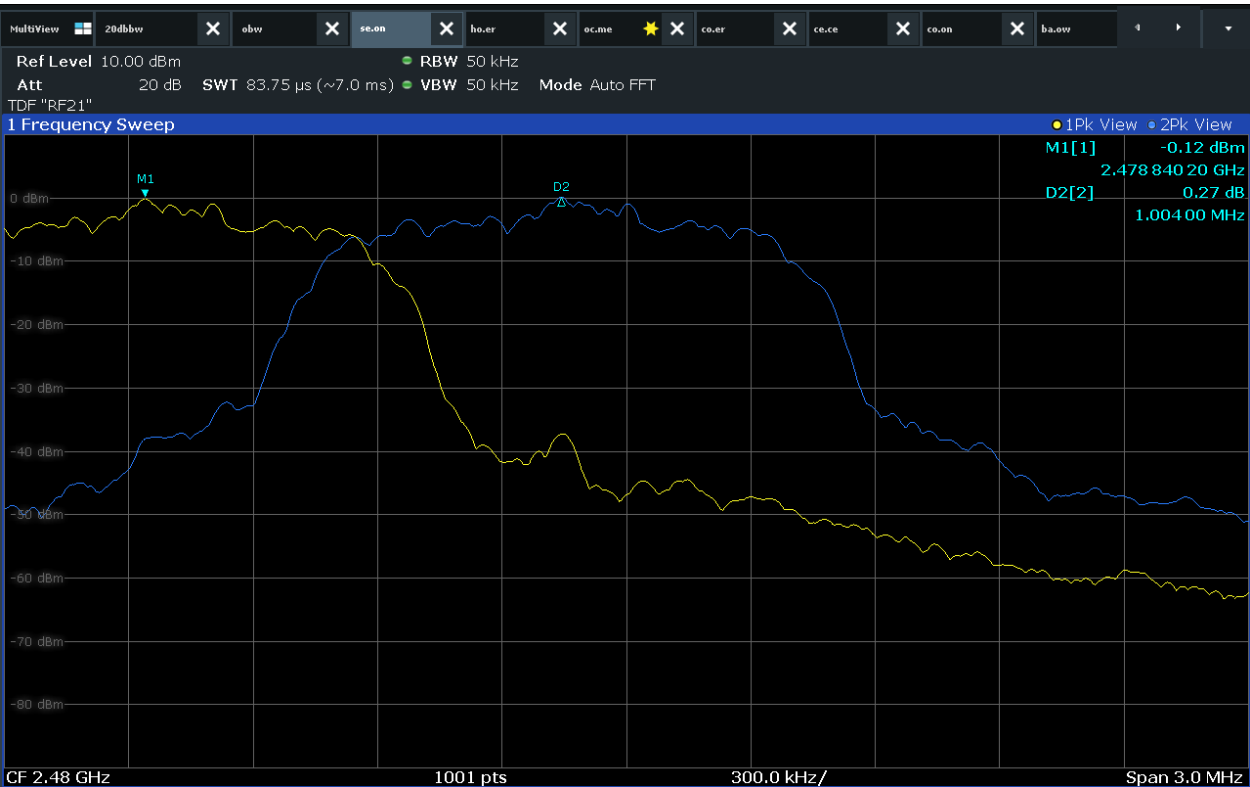
Low CH (DH5)



Mid CH (DH5)



Mid CH (3DH5)



High CH (3DH5)



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

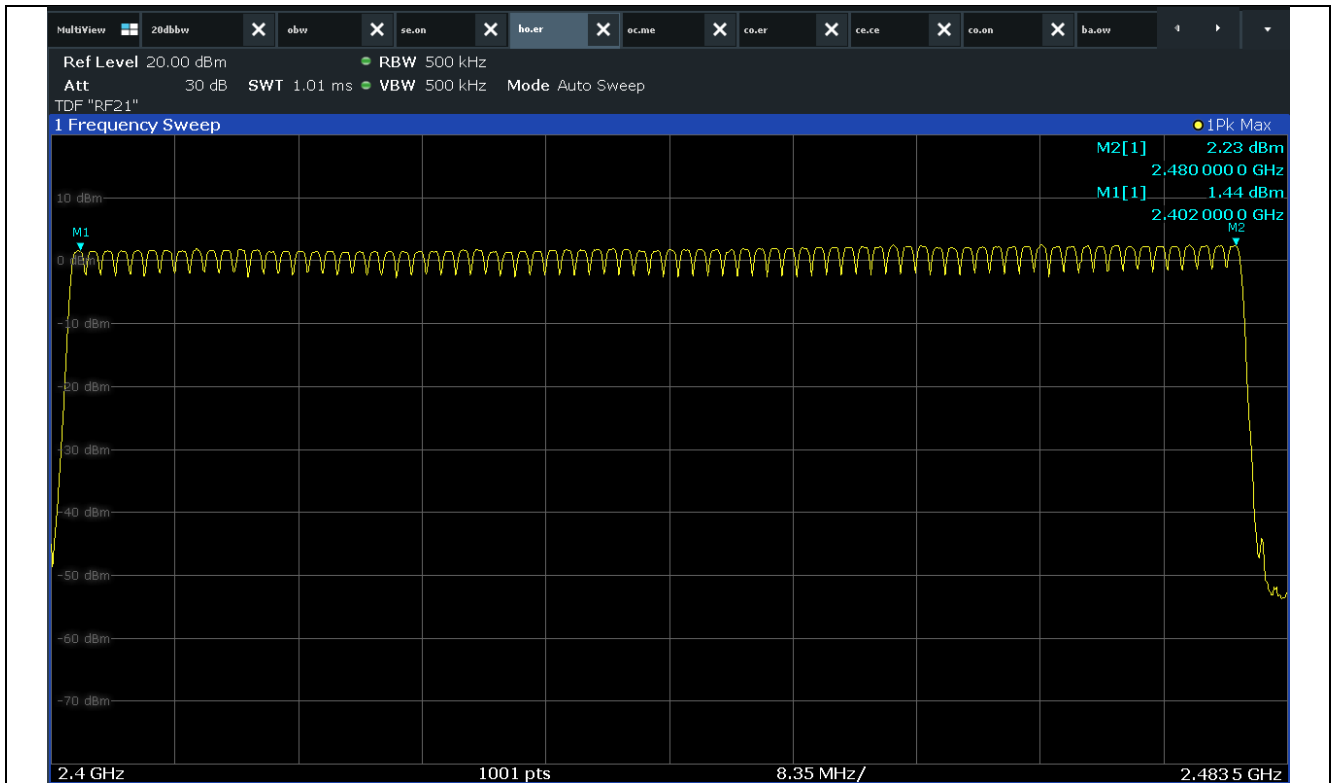
Test Result : Pass

7.4.1 Measured Results

Modulation type	Hopping Channel Number	Limit
FHSS (DH5)	79	> 15
FHSS (3DH5)	79	



7.4.2 Measured Graph



DH5



3DH5



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

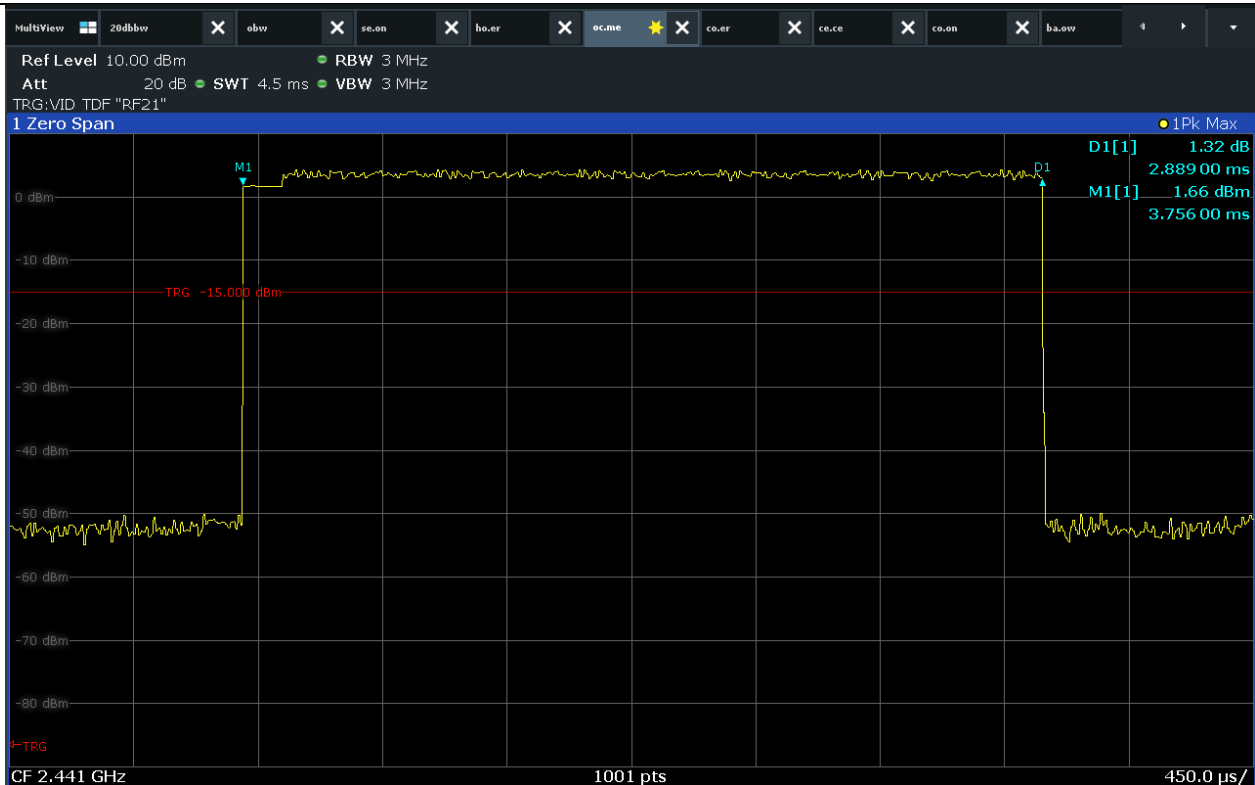
Operating Mode	Mode	Hopping Channel Number	Hops Over Occupancy Time (ms/hops)	Package Transfer Time (ms)	Occupancy Time (s)	Limit (s)
Hopping	DH5	79	106.67	2.885	0.31	0.4
	3-DH5	79	106.67	2.889	0.31	

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

8.4.2 Measurement Graph



FHSS - DH5





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

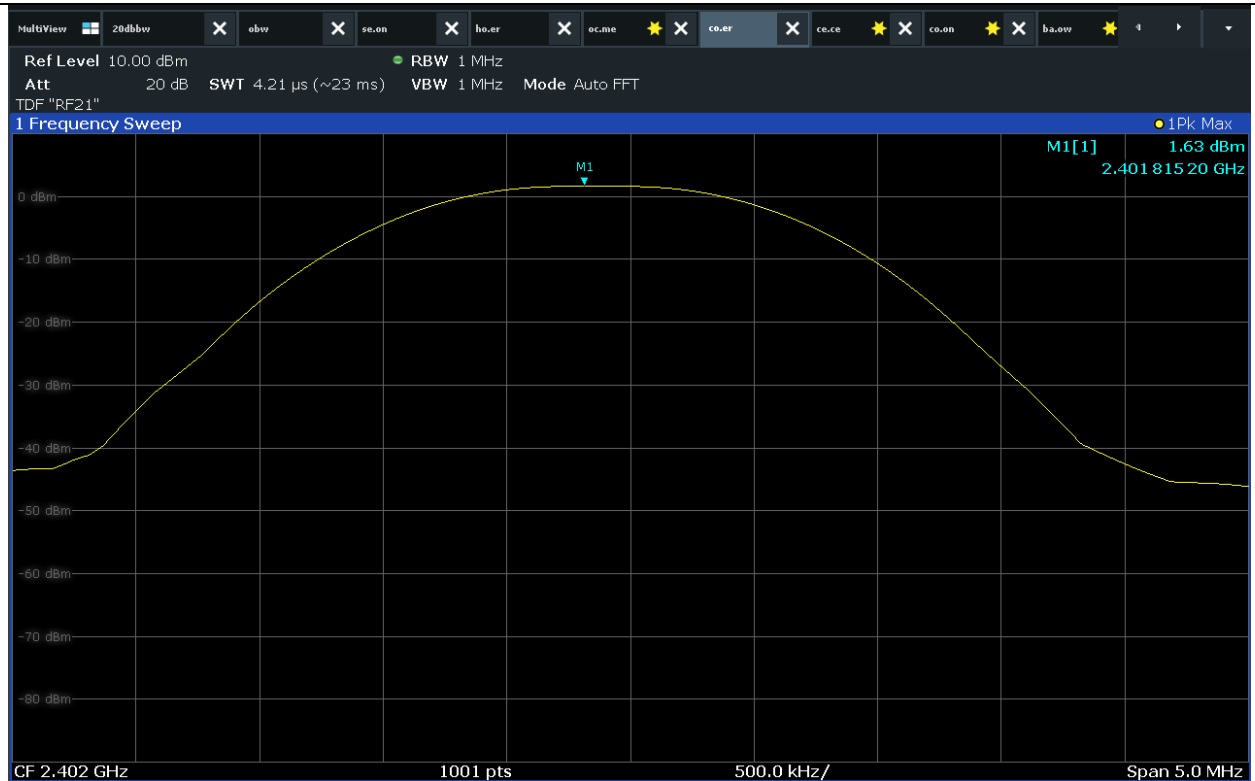
Test Result : Pass

9.4.1 Measured Results

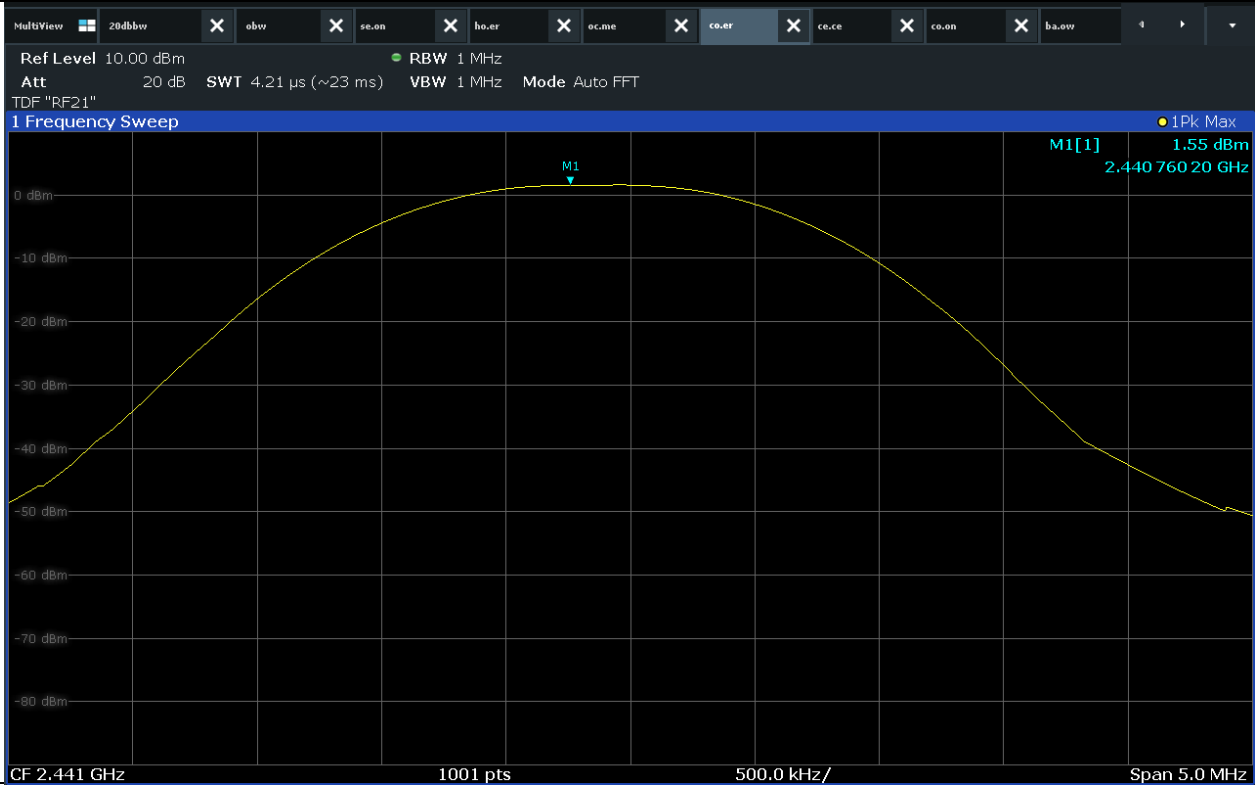
Modulation Type	Channel (Frequency)	Highest signal level (dBm)	Limit (dBm)
DH5	0 (2 402 MHz)	1.63	30 (1 Watt)
	39 (2 441 MHz)	1.55	
	78 (2 480 MHz)	2.33	
3-DH5	0 (2 402 MHz)	2.44	
	39 (2 441 MHz)	3.52	
	78 (2 480 MHz)	3.51	



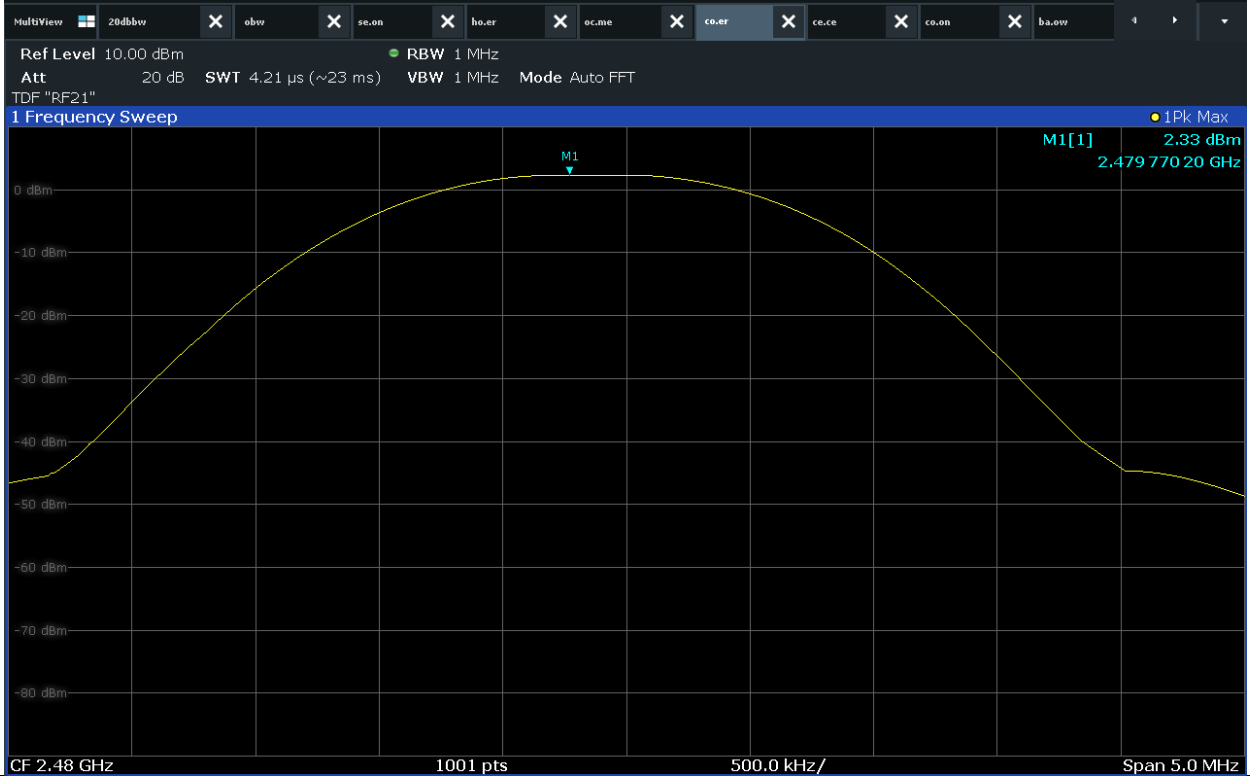
9.4.2 Measurement Graph



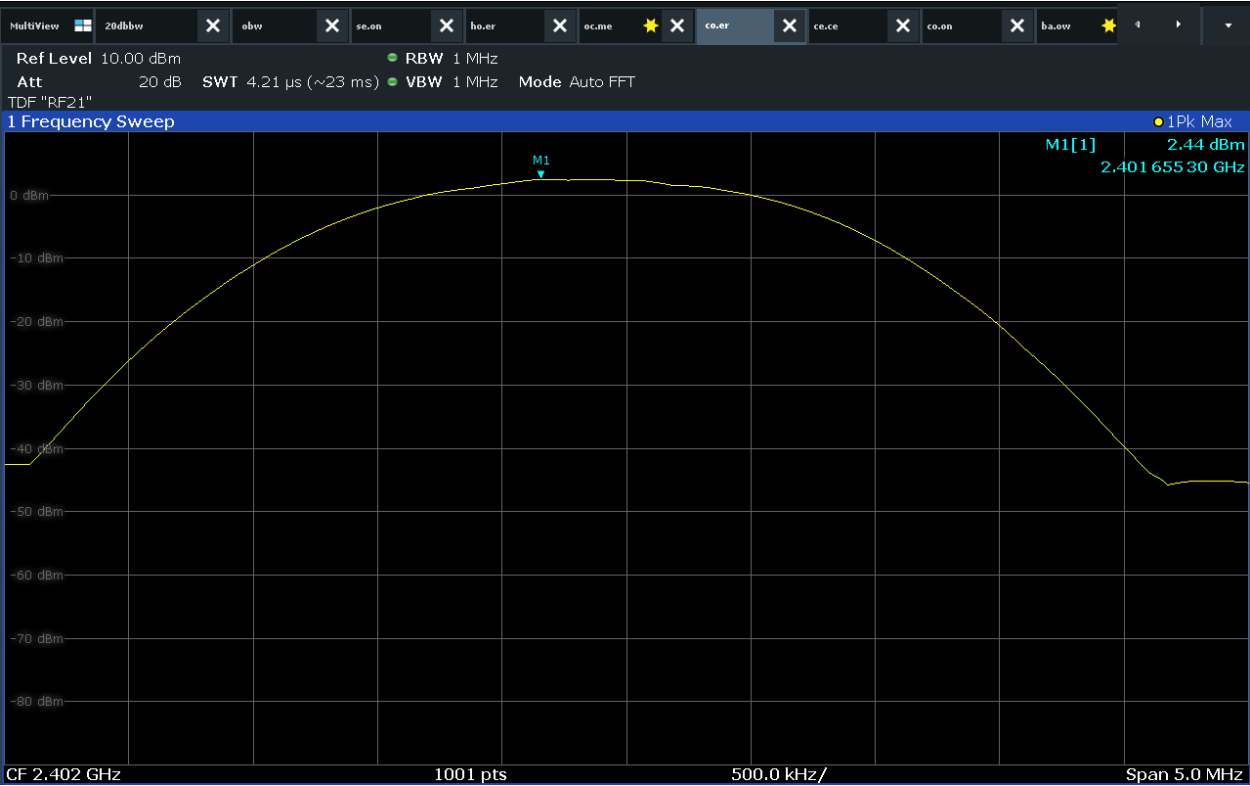
Low CH (DH5)



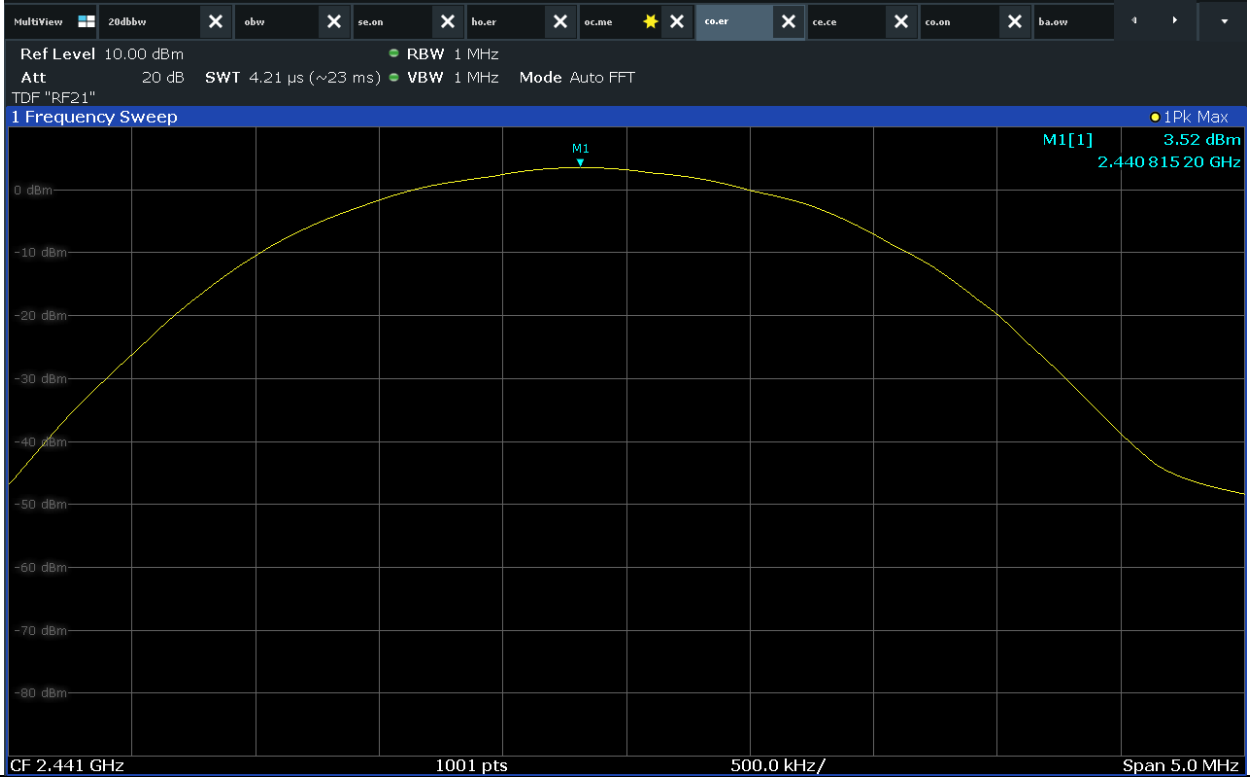
Mid CH (DH5)



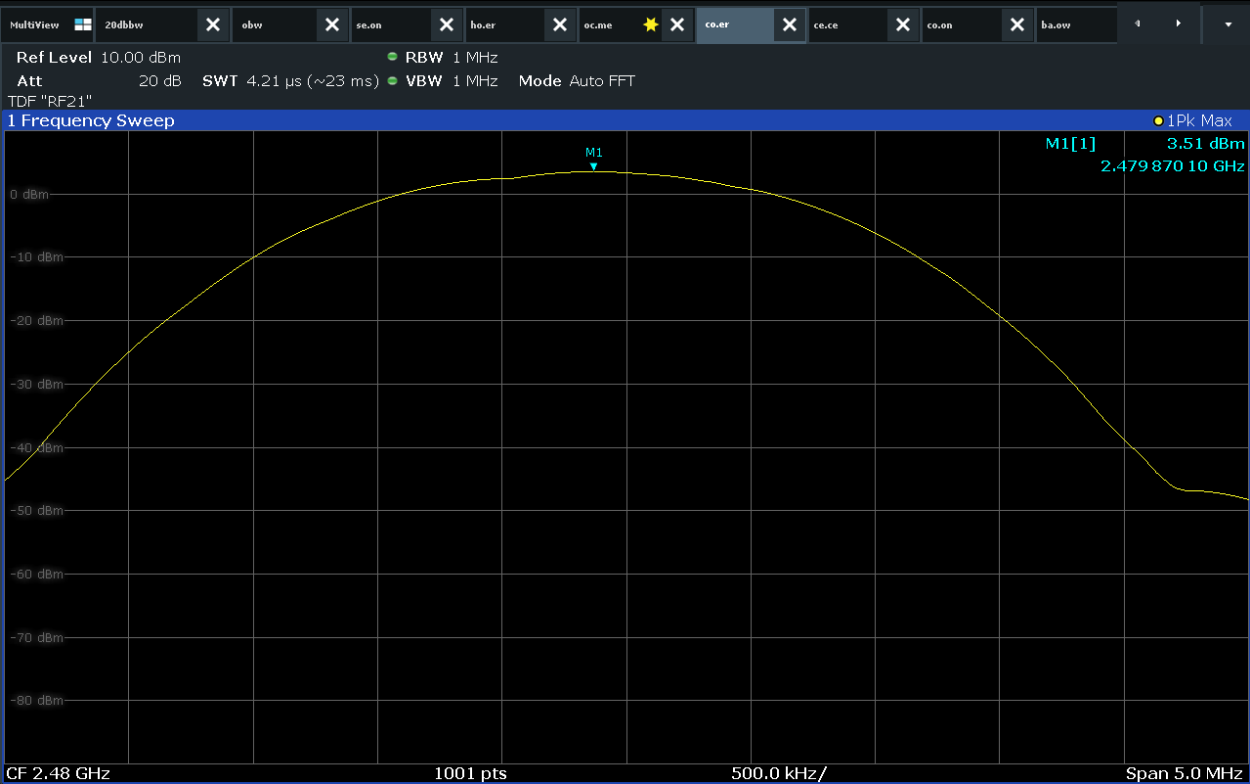
High CH (DH5)



Low CH (3DH5)



Mid CH (3DH5)



High CH (3DH5)



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

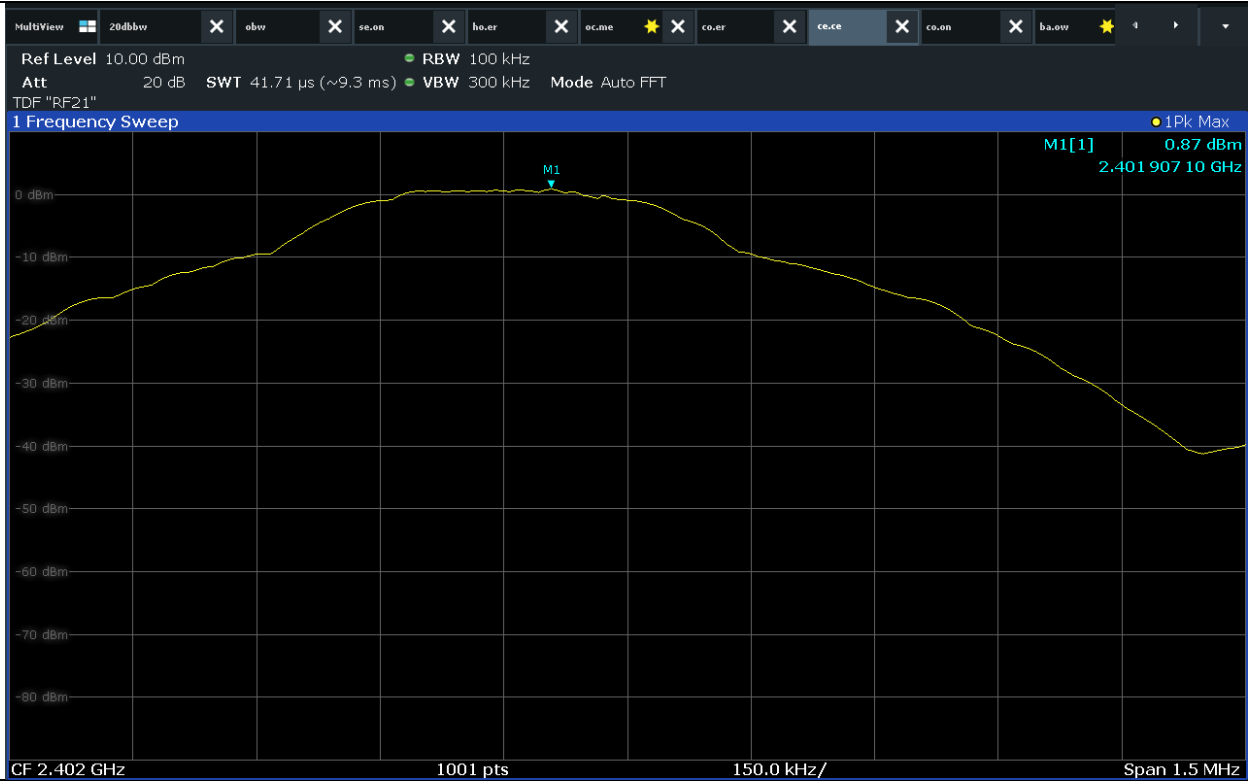
Operating mode : Transmit mode

Test Result : Pass

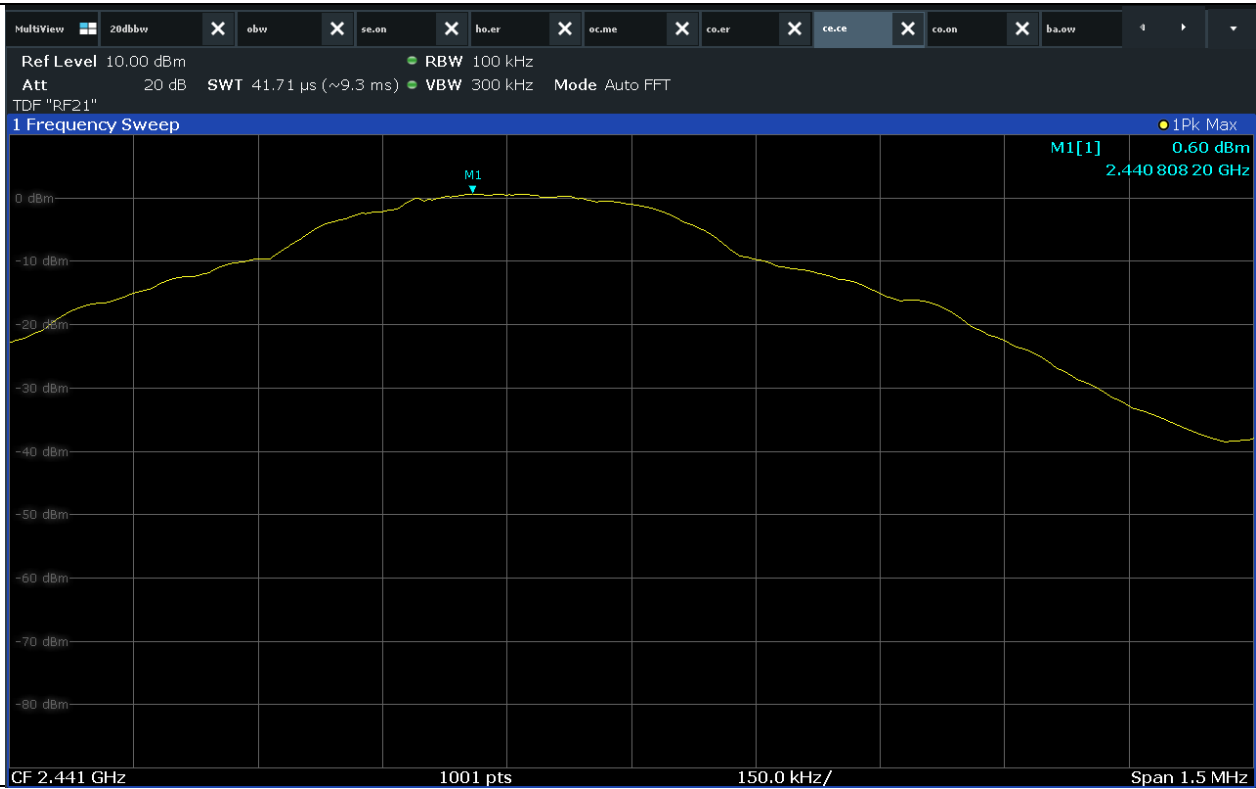
10.4.1 Measured Results



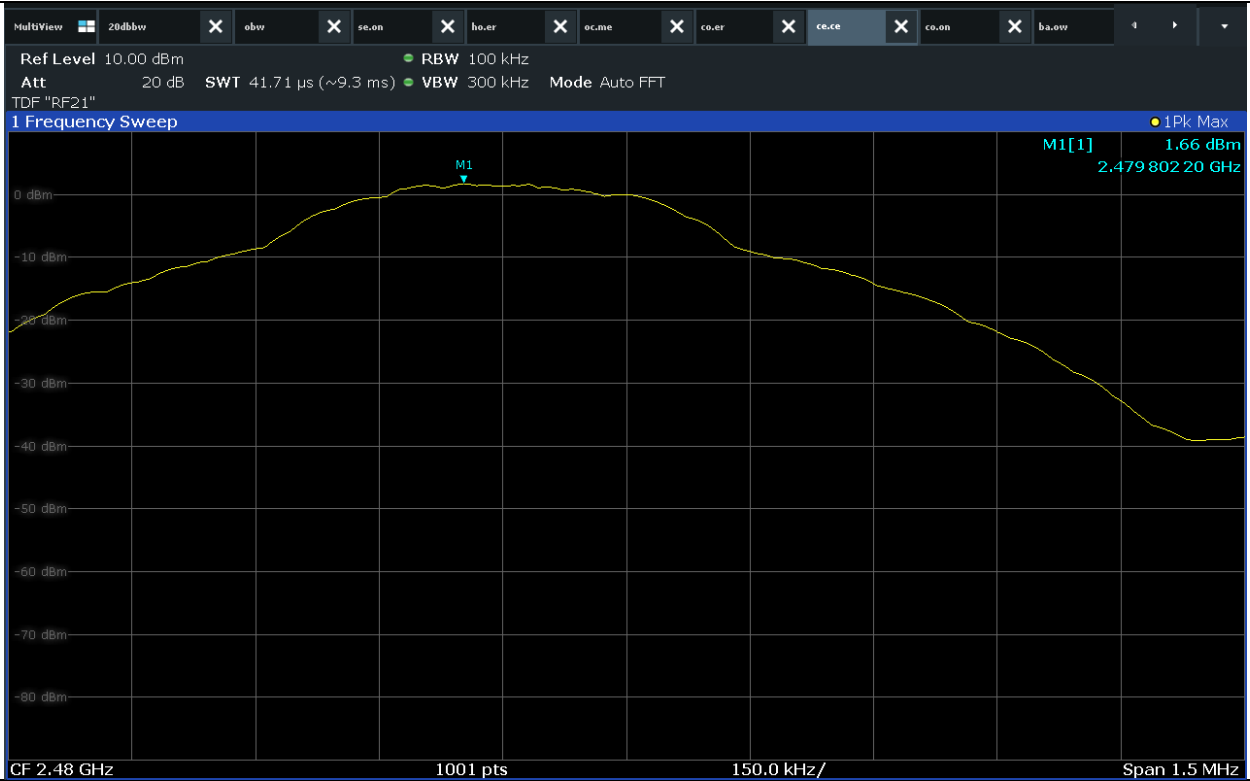
10.4.1.1 Signal level (dB m)



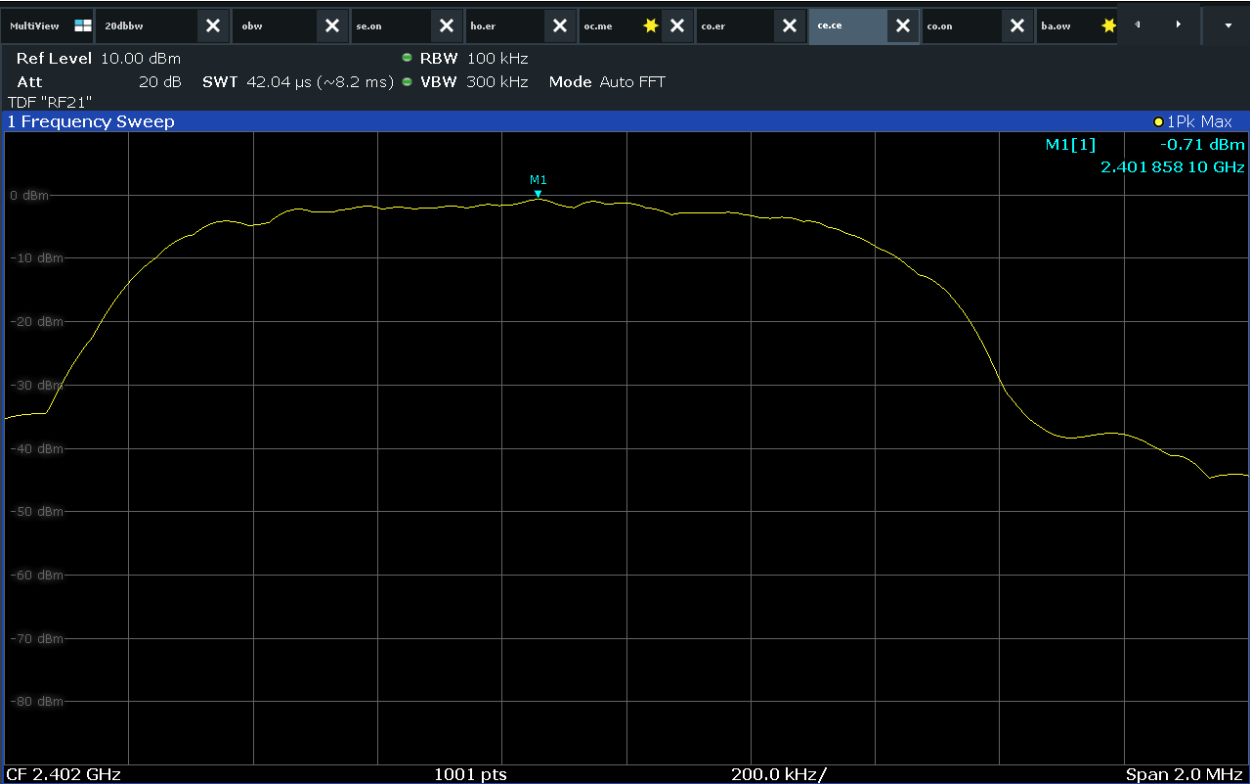
Low CH (DH5)



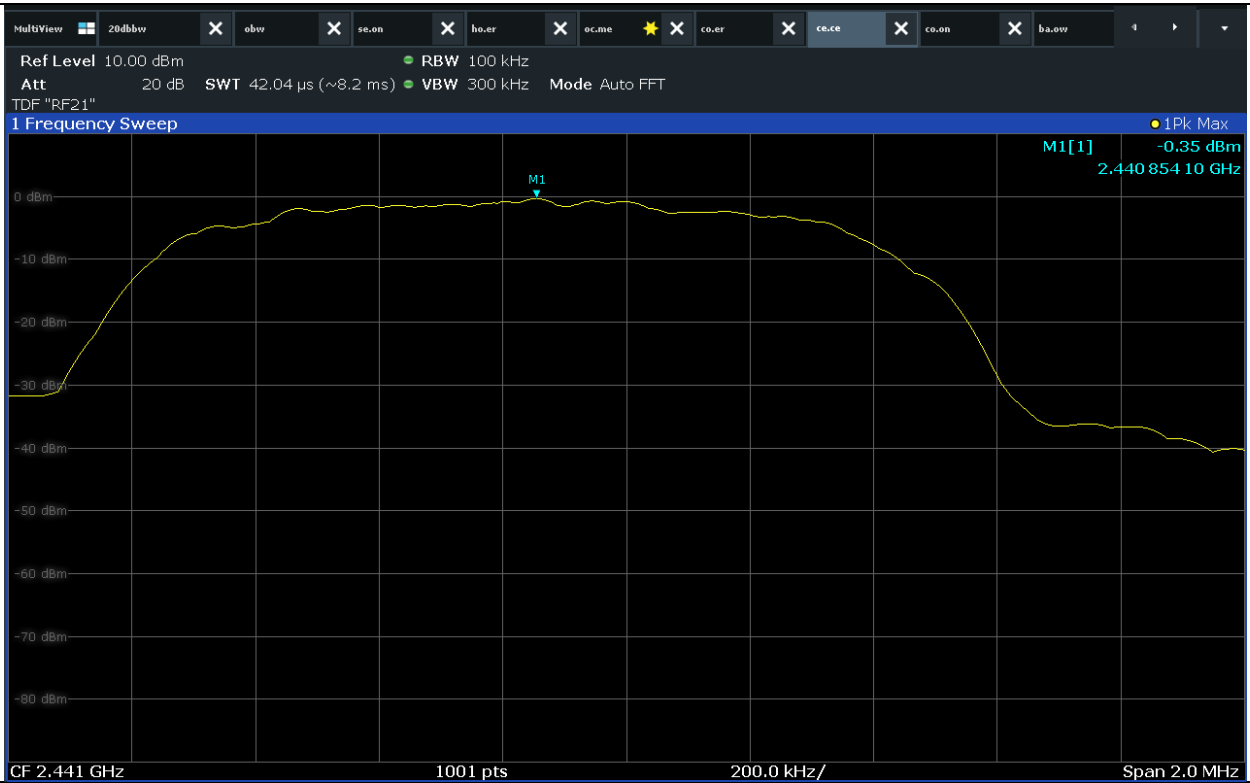
Mid CH (DH5)



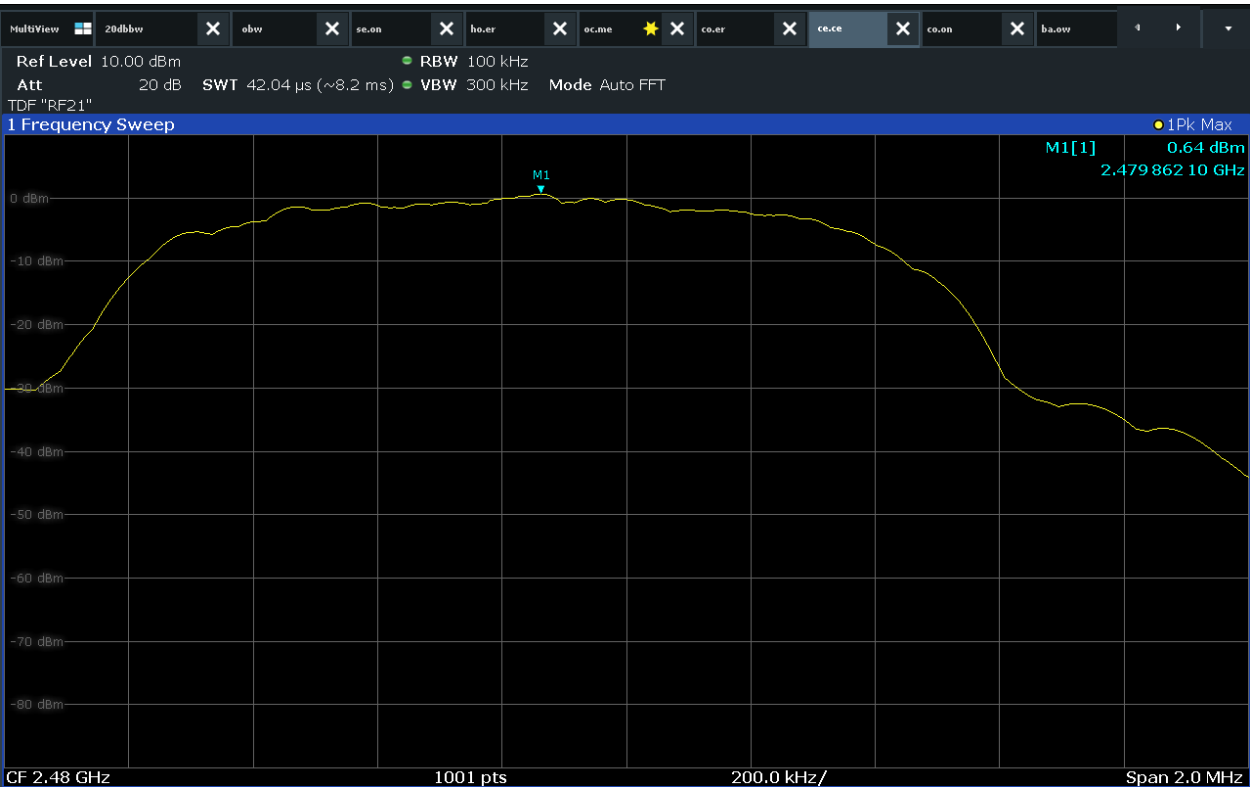
High CH (DH5)



Low CH (3DH5)



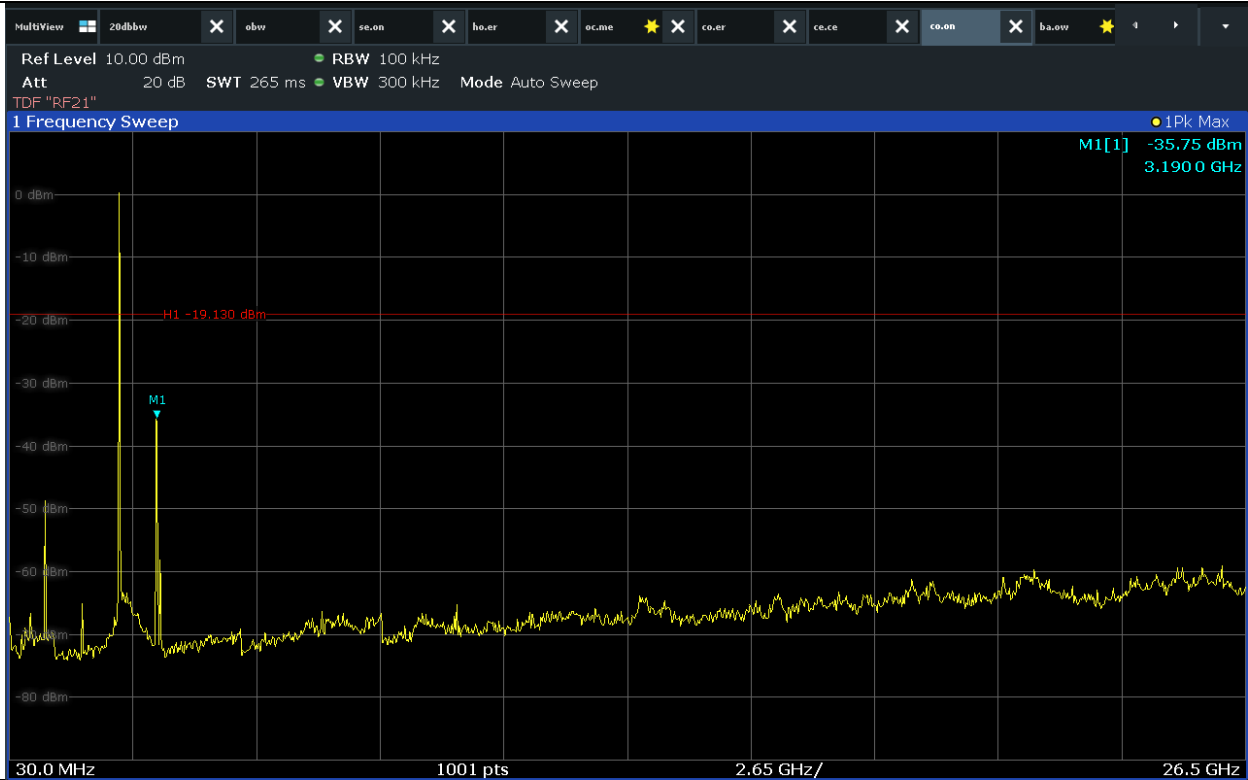
Mid CH (3DH5)



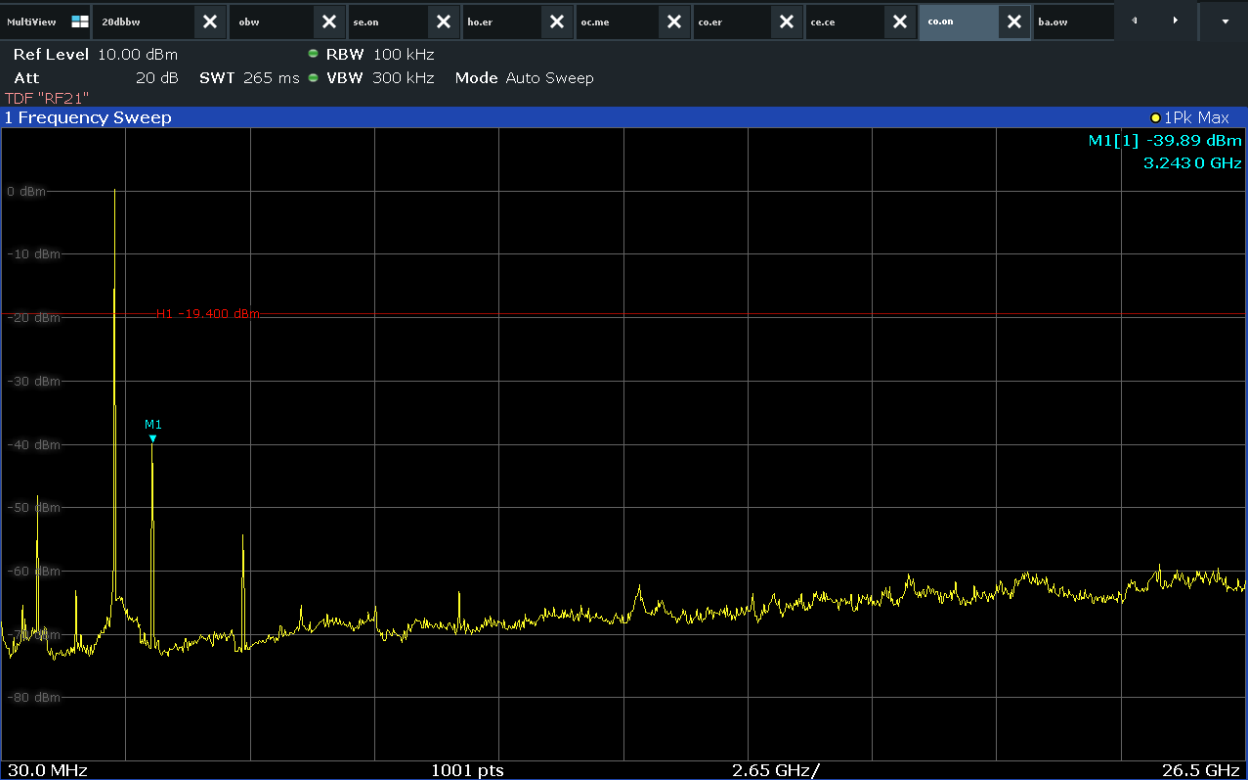
High CH (3DH5)



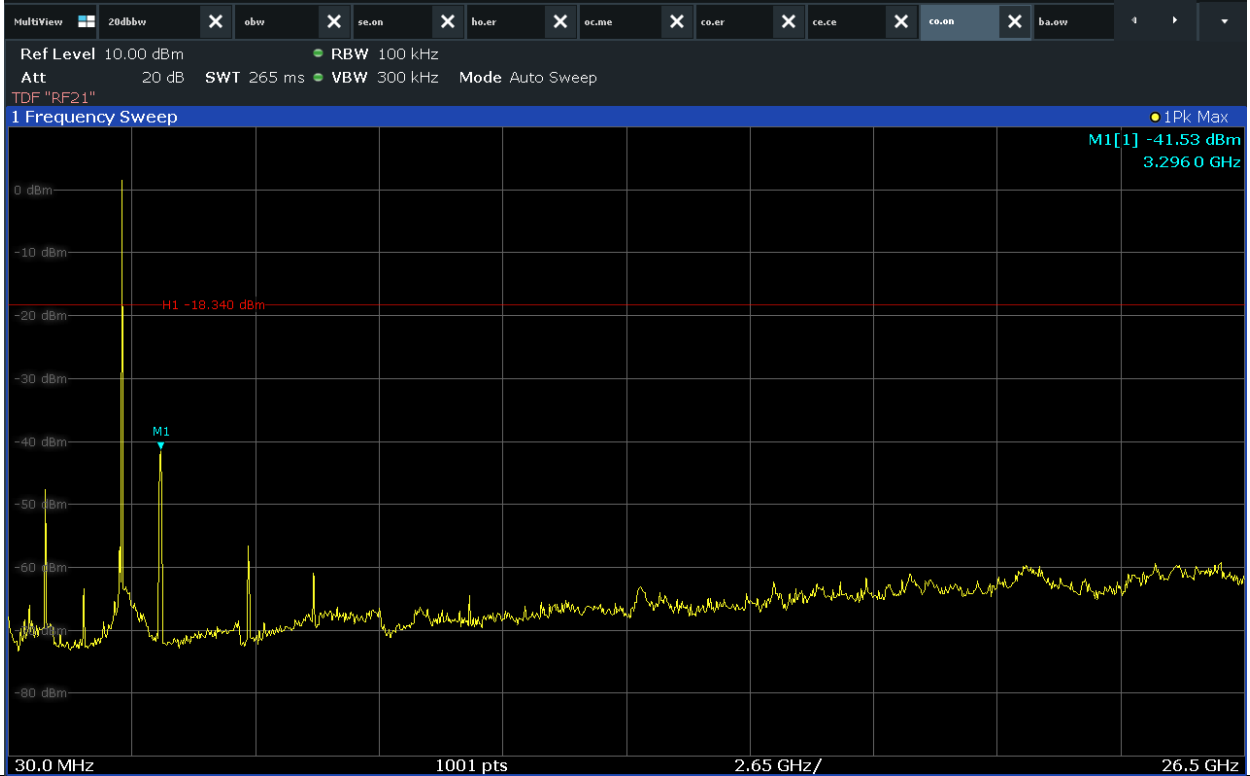
10.4.1.2 Unwanted Emissions In Non-Restricted Frequency Bands



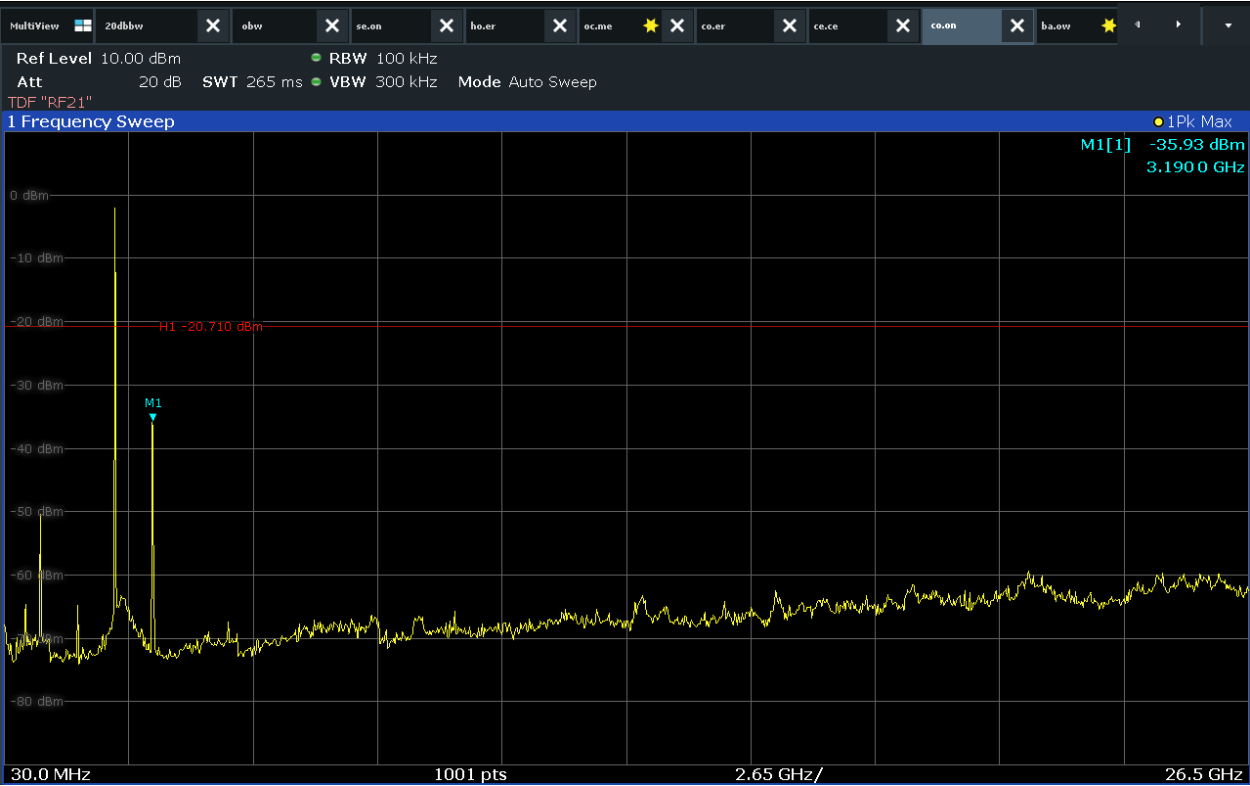
Low CH (DH5)



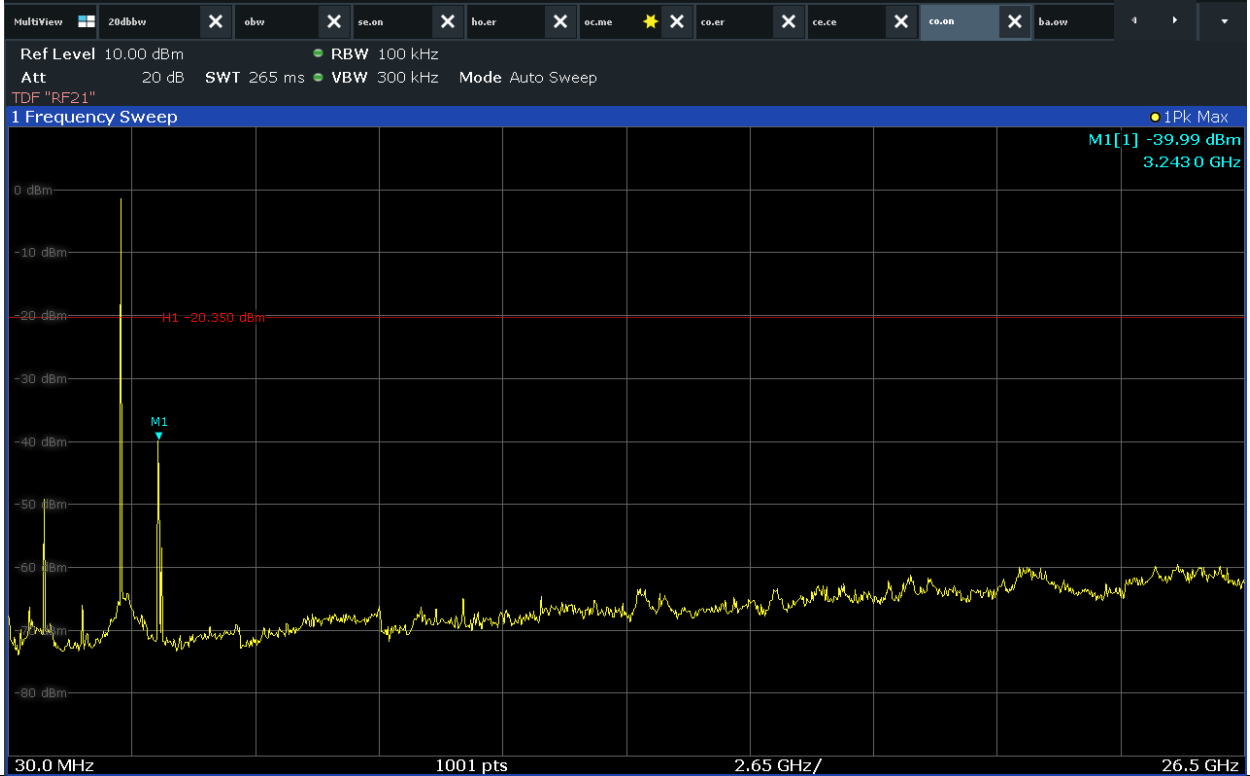
Mid CH (DH5)



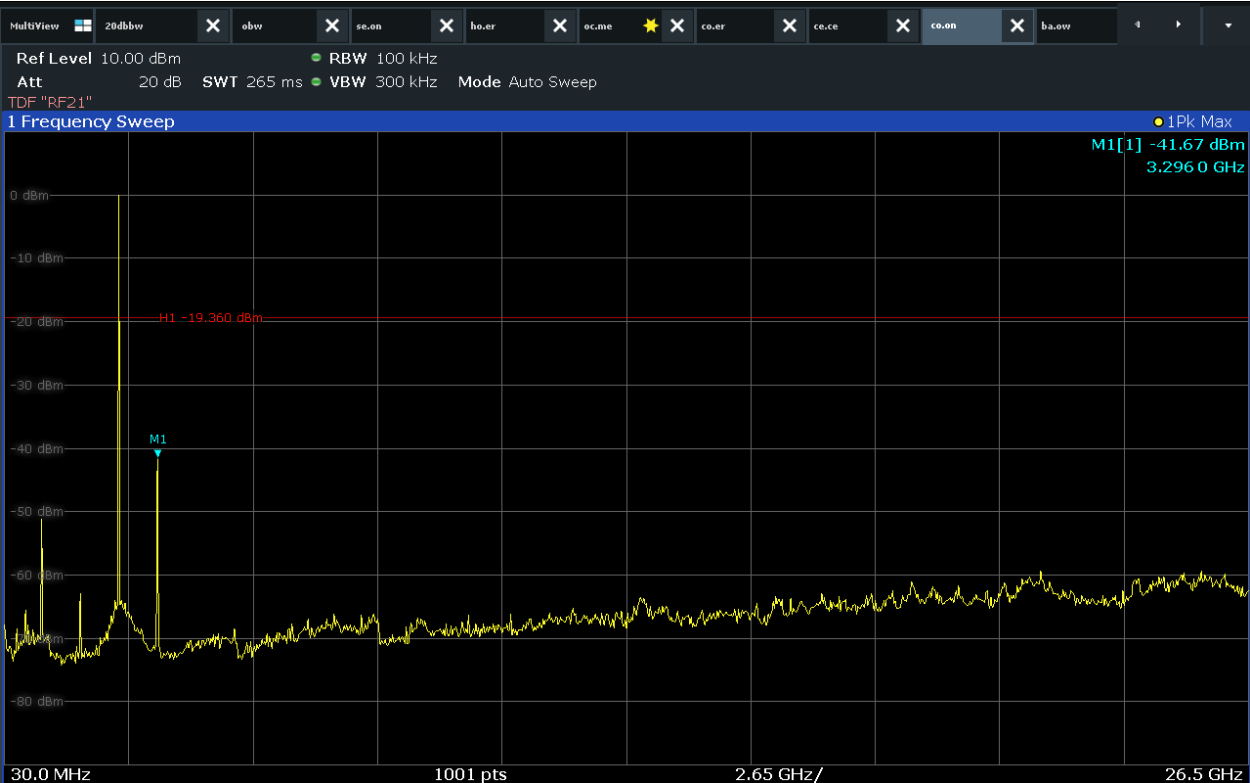
High CH (DH5)



Low CH (3DH5)



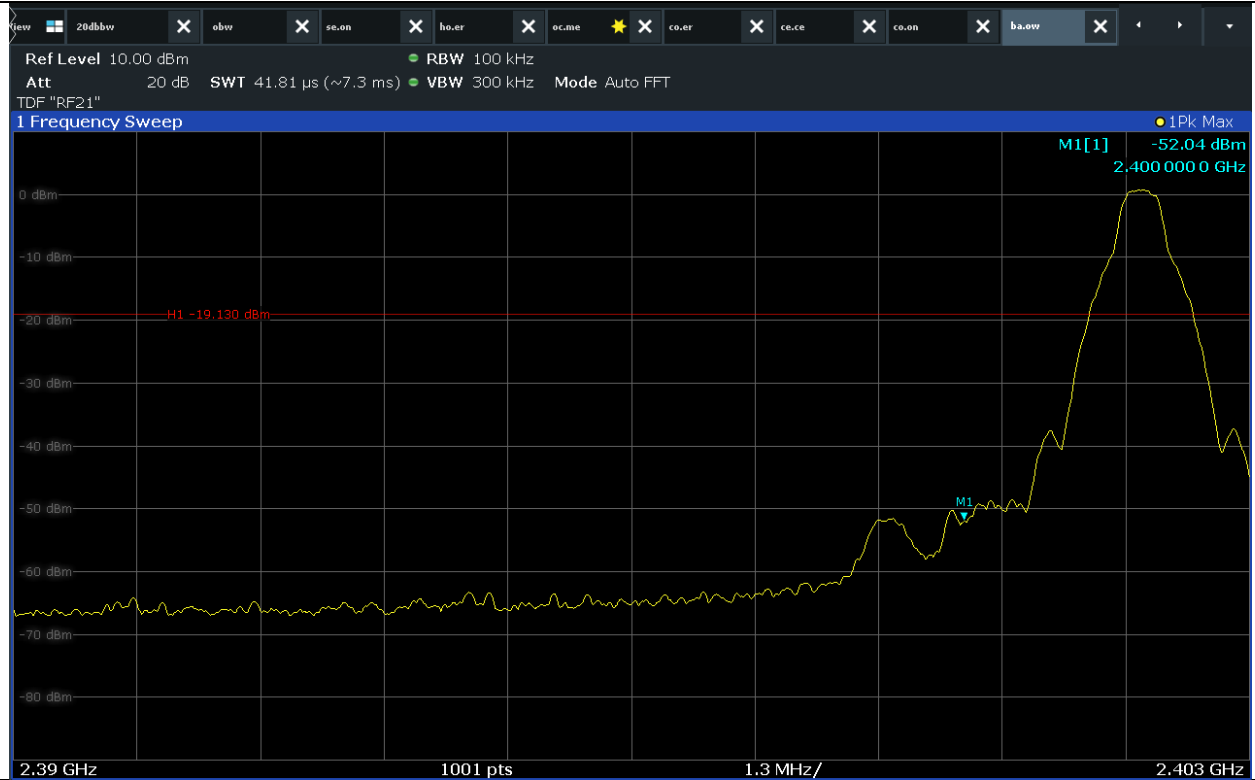
Mid CH (3DH5)



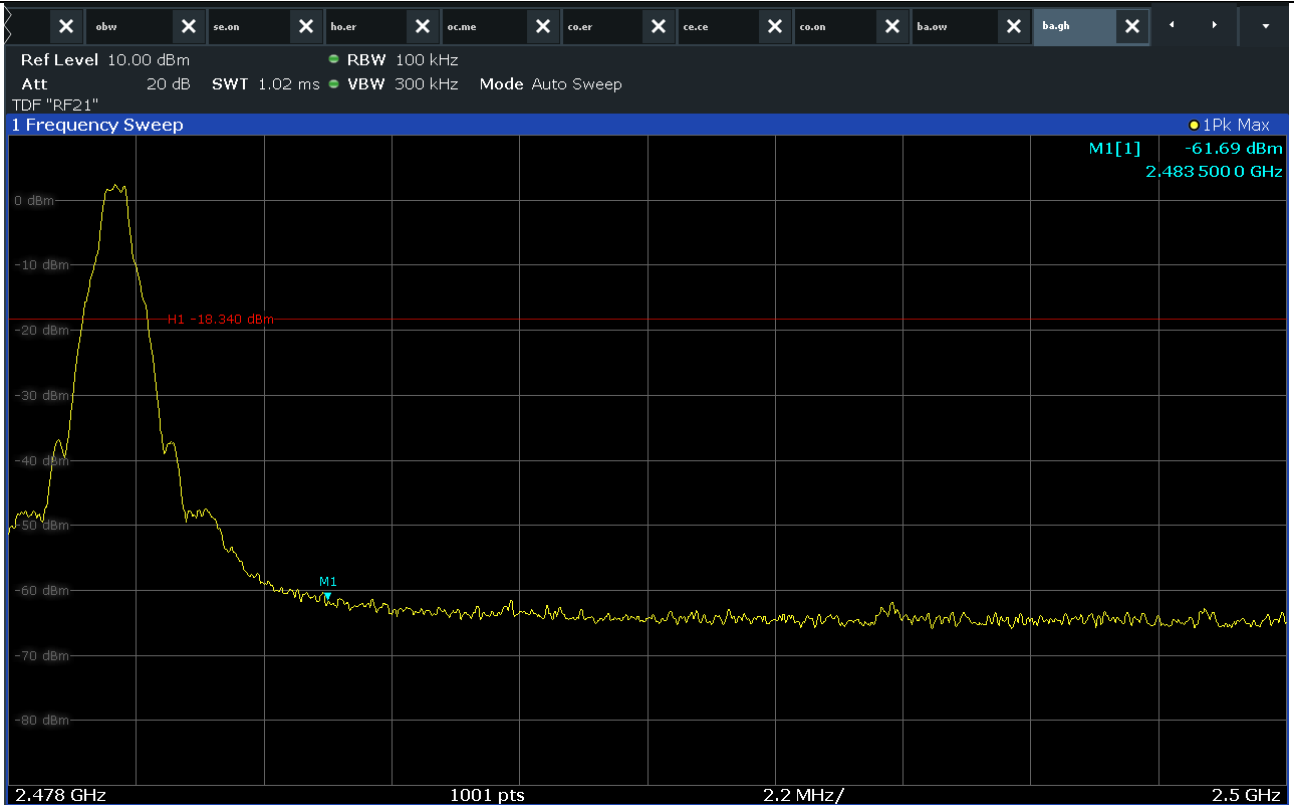
High CH (3DH5)



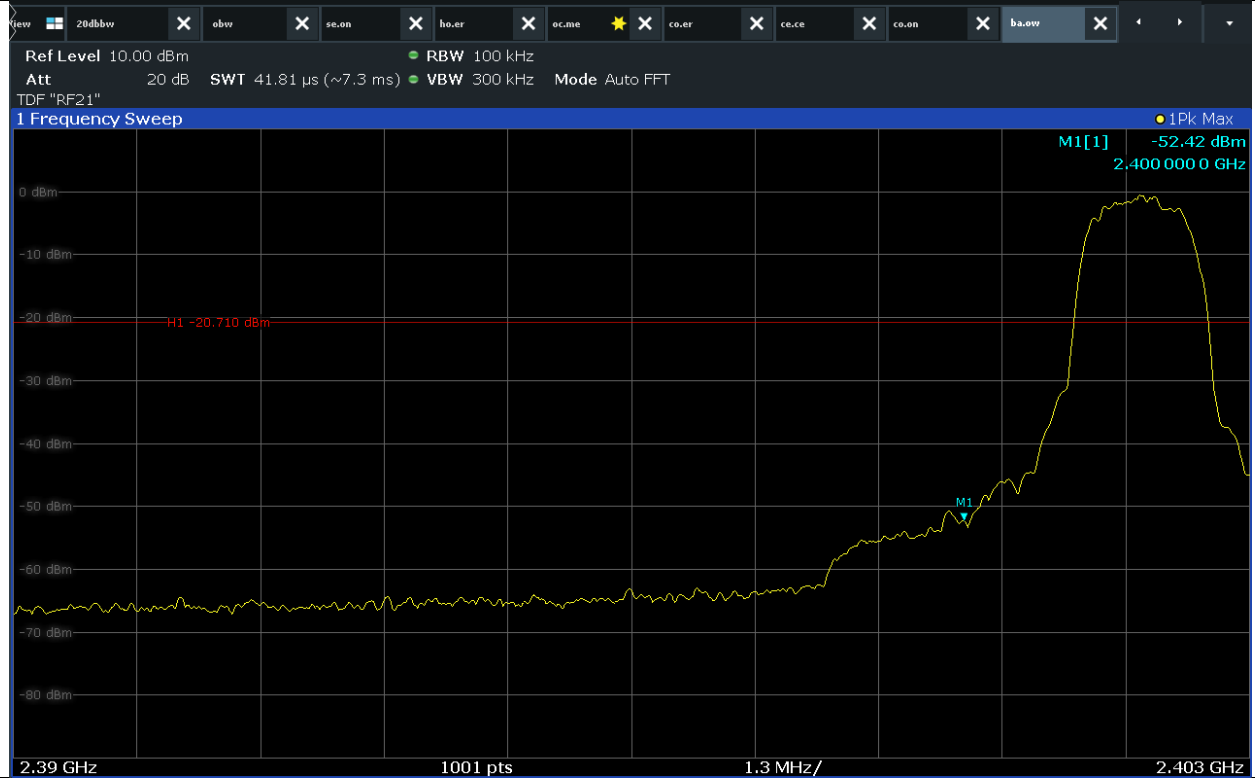
10.4.1.3 Band Edge



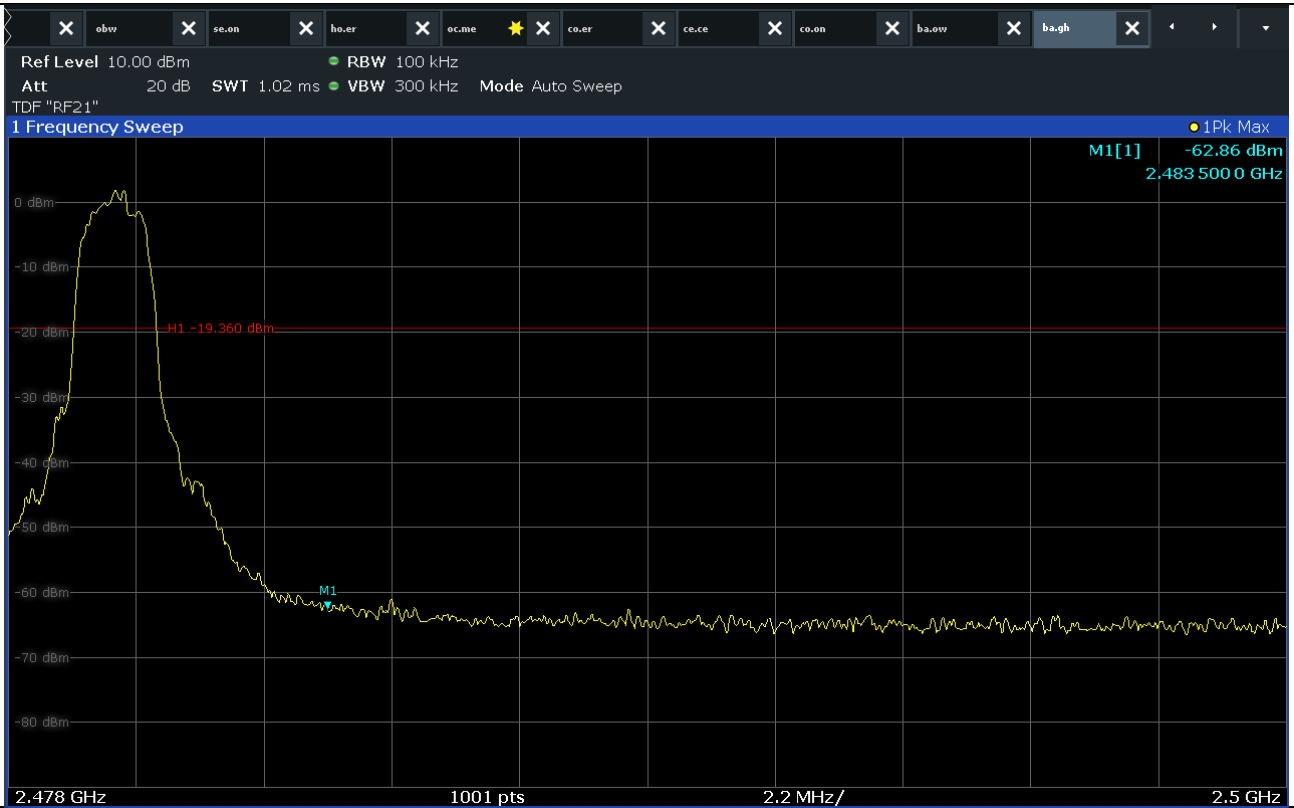
Low CH (DH5)



High CH (DH5)



Low CH (3DH5)



High CH (3DH5)

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

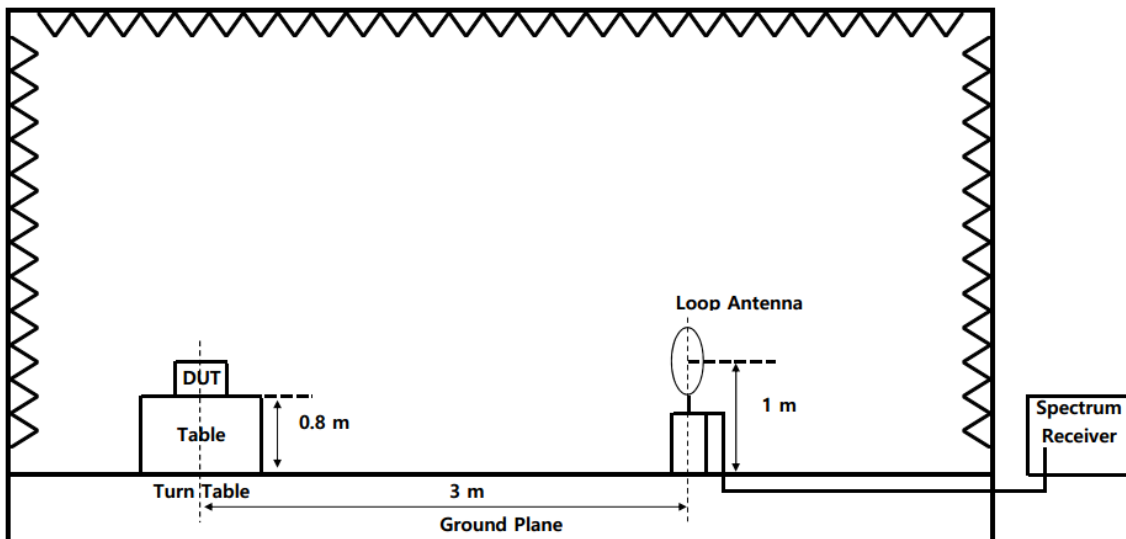
Standard : §15.205, §15.209

11.4 Test setup

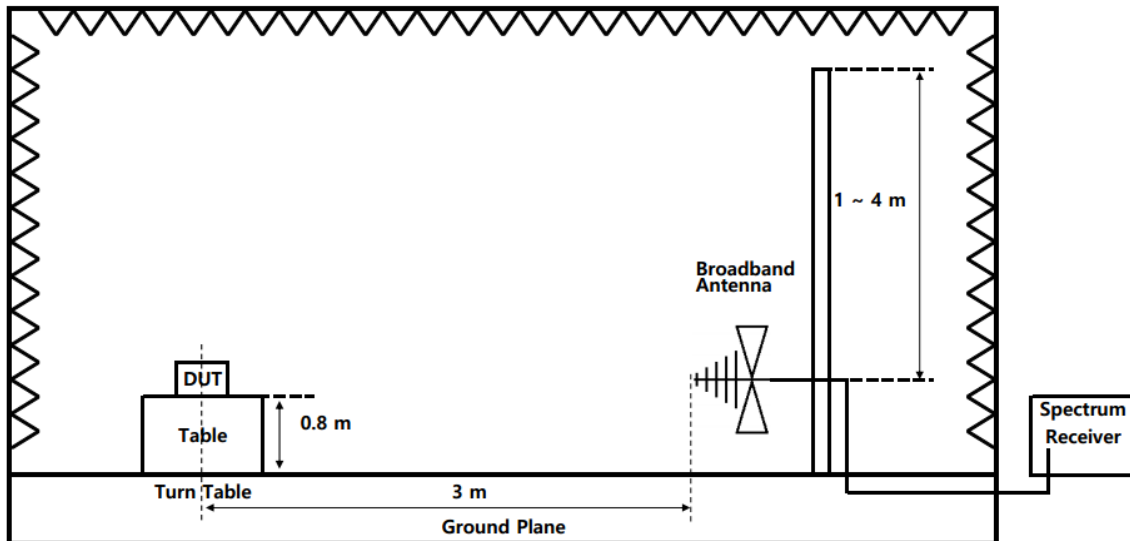
The radiated emissions measurements were performed on the 3 m, Semi-Anechoic Chamber. The EUT was placed on a non-conductive turntable above the ground plane.

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.

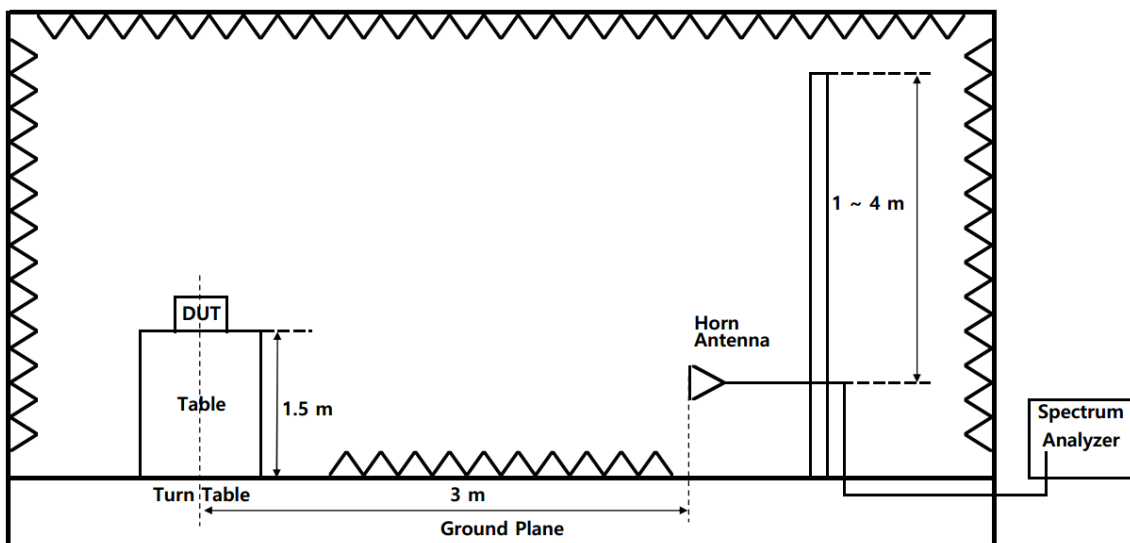
11.4.1 Below 30 MHz



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 (dBμV)	Detector	Ant. Pol. (H/V)	Corr. Factor (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
Low CH							
2 386.21	Peak	H	29.39	-14.70	44.09	73.98	29.89
	Average	H	6.23		20.93	53.98	33.05
High CH							
2 486.46	Peak	H	39.10	-14.40	53.50	73.98	20.48
	Average	H	9.07		23.47	53.98	30.51

※ Ant. Pol. : Antenna Polarization

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

※ Result = Reading + Corr. Factor

※ Margin = Limit – Result

11.5.1.2 Measure Results for 3DH5

Frequency (MHz)	Reading (dBμV)	Detector	Ant. Pol. (H/V)	Corr. Factor (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
Low CH							
2 385.78	Peak	H	36.01	-14.70	50.71	73.98	23.27
	Average	H	5.65		20.35	53.98	33.63
High CH							
2 497.07	Peak	H	41.06	-14.40	55.46	73.98	18.52
	Average	H	7.55		21.95	53.98	32.03

※ 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

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.							

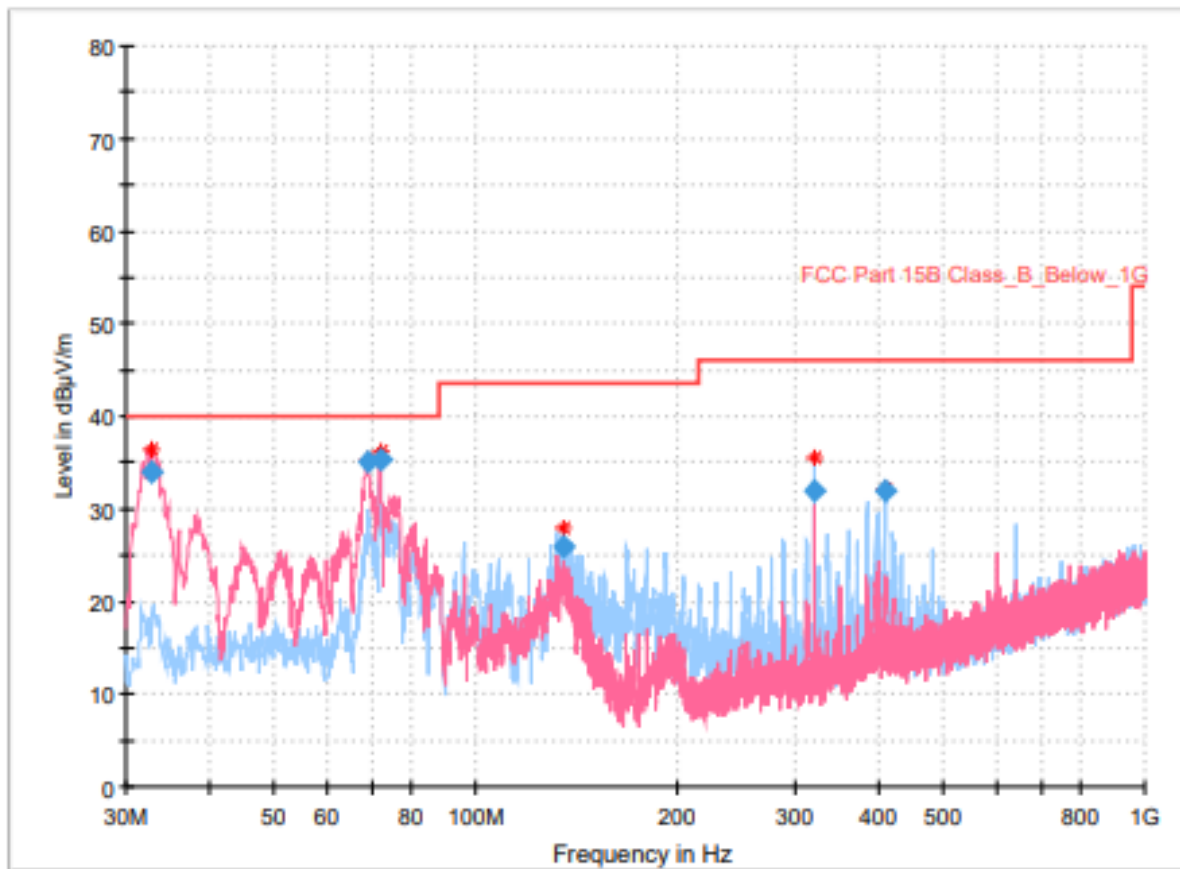
※ Ant. Pol. : Antenna Polarization

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

※ Result = Reading + Corr. Factor

※ Margin = Limit – Result

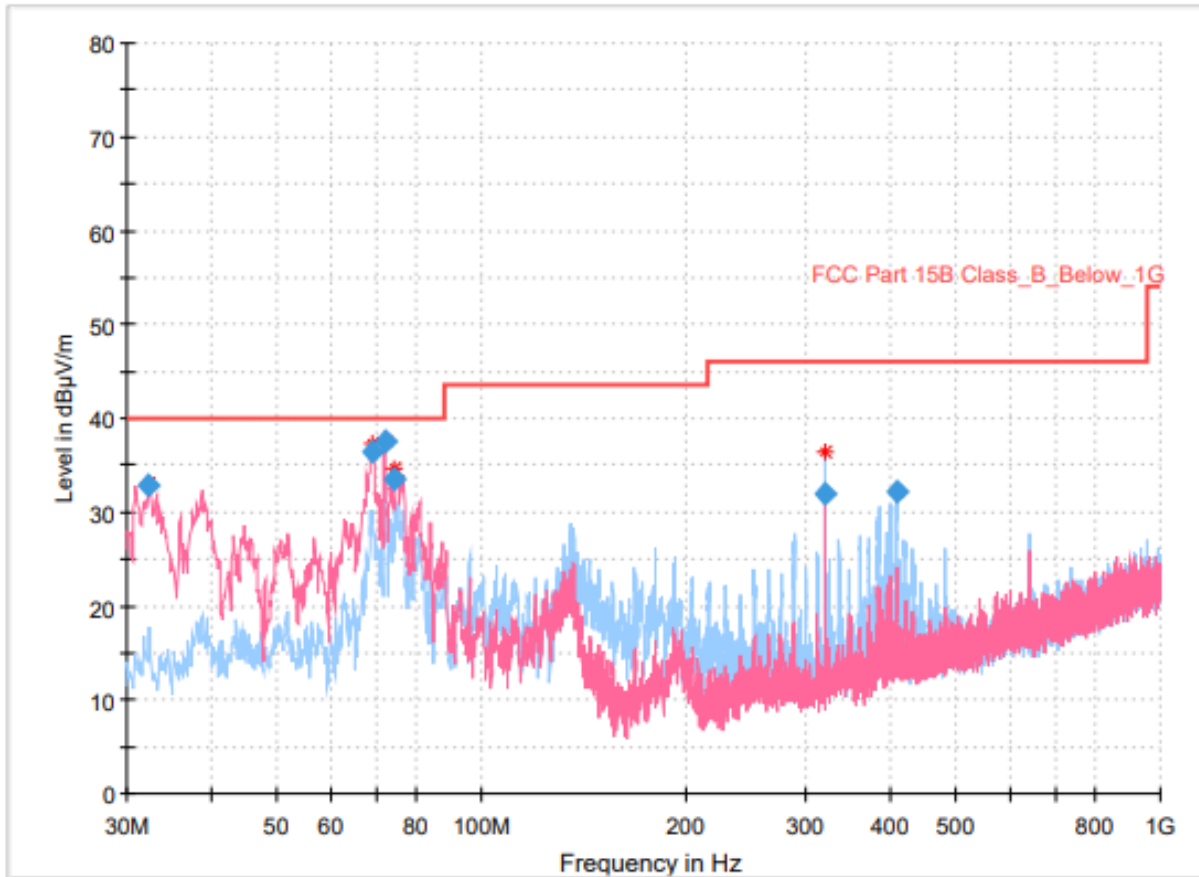
Measurement Results for below 1 GHz (DH5)



Final Result

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
32.716000	34.02	40.00	5.98	1000.0	120.000	100.0	V	235.0	-24.5
69.091000	35.16	40.00	4.84	1000.0	120.000	100.0	V	290.0	-23.1
72.001000	35.41	40.00	4.59	1000.0	120.000	100.0	V	235.0	-24.3
135.439000	25.88	43.50	17.62	1000.0	120.000	100.0	H	183.0	-24.6
320.030000	31.92	46.00	14.08	1000.0	120.000	100.0	H	24.0	-17.8
408.591000	31.97	46.00	14.03	1000.0	120.000	100.0	H	301.0	-15.3

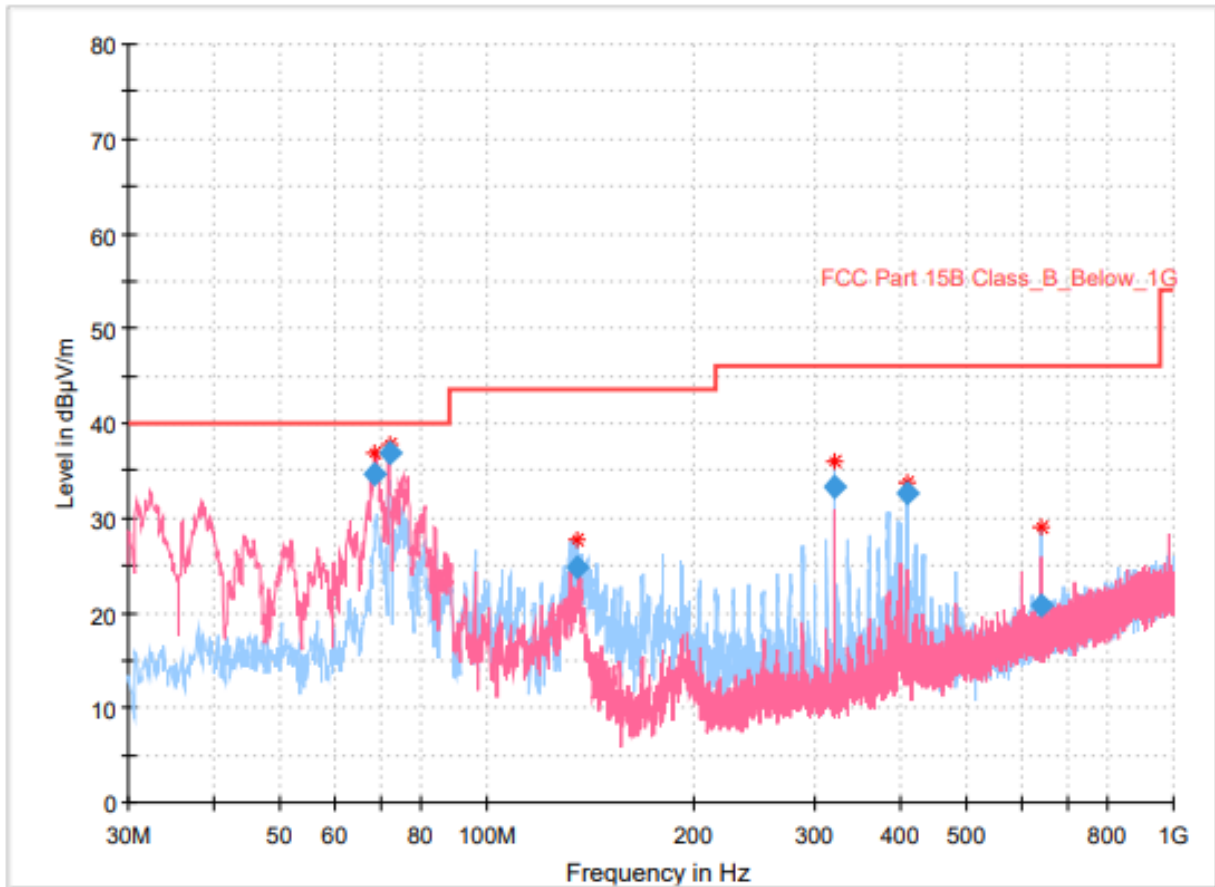
Low CH



Final Result

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
32.328000	32.76	40.00	7.24	1000.0	120.000	100.0	V	83.0	-24.7
69.188000	36.36	40.00	3.64	1000.0	120.000	100.0	V	175.0	-23.2
72.001000	37.64	40.00	2.36	1000.0	120.000	100.0	V	175.0	-24.3
74.620000	33.59	40.00	6.41	1000.0	120.000	100.0	V	201.0	-25.3
319.933000	32.06	46.00	13.94	1000.0	120.000	100.0	H	91.0	-17.8
408.494000	32.07	46.00	13.93	1000.0	120.000	100.0	H	105.0	-15.3

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)
68.703000	34.64	40.00	5.36	1000.0	120.000	100.0	V	306.0	-23.0
72.001000	36.79	40.00	3.21	1000.0	120.000	100.0	V	306.0	-24.3
135.051000	24.70	43.50	18.80	1000.0	120.000	100.0	H	180.0	-24.6
320.030000	33.40	46.00	12.60	1000.0	120.000	100.0	H	25.0	-17.8
408.203000	32.52	46.00	13.48	1000.0	120.000	100.0	H	107.0	-15.3
640.033000	20.68	46.00	25.32	1000.0	120.000	100.0	H	233.0	-11.4

High CH



Measurement Results for Above 1 GHz (DH5)

Frequency (MHz)	Reading (dBμV)	Detector	Ant. Pol. (H/V)	Corr. Factor (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
Low CH							
4 803.94	Peak	V	41.94	-3.50	45.44	73.98	28.54
	Average	V	32.37		35.87	53.98	18.11
5 999.65	Peak	V	48.82	-1.70	50.52	73.98	23.46
	Average	V	42.24		43.94	53.98	10.04
7 201.75	Peak	V	46.89	0.70	46.19	73.98	27.79
	Average	V	33.36		32.66	53.98	21.32
9 607.28	Peak	V	52.90	3.80	49.10	73.98	24.88
	Average	V	39.58		35.78	53.98	18.20
Mid CH							
4 881.89	Peak	H	42.74	-2.90	45.64	73.98	28.34
	Average	H	32.86		35.76	53.98	18.22
5 999.72	Peak	V	45.35	-1.70	47.05	73.98	26.93
	Average	V	37.55		39.25	53.98	14.73
7 323.18	Peak	H	47.60	0.90	46.70	73.98	27.28
	Average	H	34.18		33.28	53.98	20.70
9 761.21	Peak	V	53.18	4.00	49.18	73.98	24.80
	Average	V	39.84		35.84	53.98	18.14
High CH							
4 959.73	Peak	H	40.65	-2.70	43.35	73.98	30.63
	Average	H	30.14		32.84	53.98	21.14
5 999.80	Peak	V	49.45	-1.70	51.15	73.98	22.83
	Average	V	43.89		45.59	53.98	8.39
7 438.76	Peak	H	47.49	1.20	46.29	73.98	27.69
	Average	H	34.10		32.90	53.98	21.08
9 963.77	Peak	H	53.76	4.40	49.36	73.98	24.62
	Average	H	40.54		36.14	53.98	17.84

※ Ant. Pol. : Antenna Polarization

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

※ Result = Reading + Corr. Factor

※ Margin = Limit – Result



11.5.2.2 Measurement Results for 3DH5

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.							

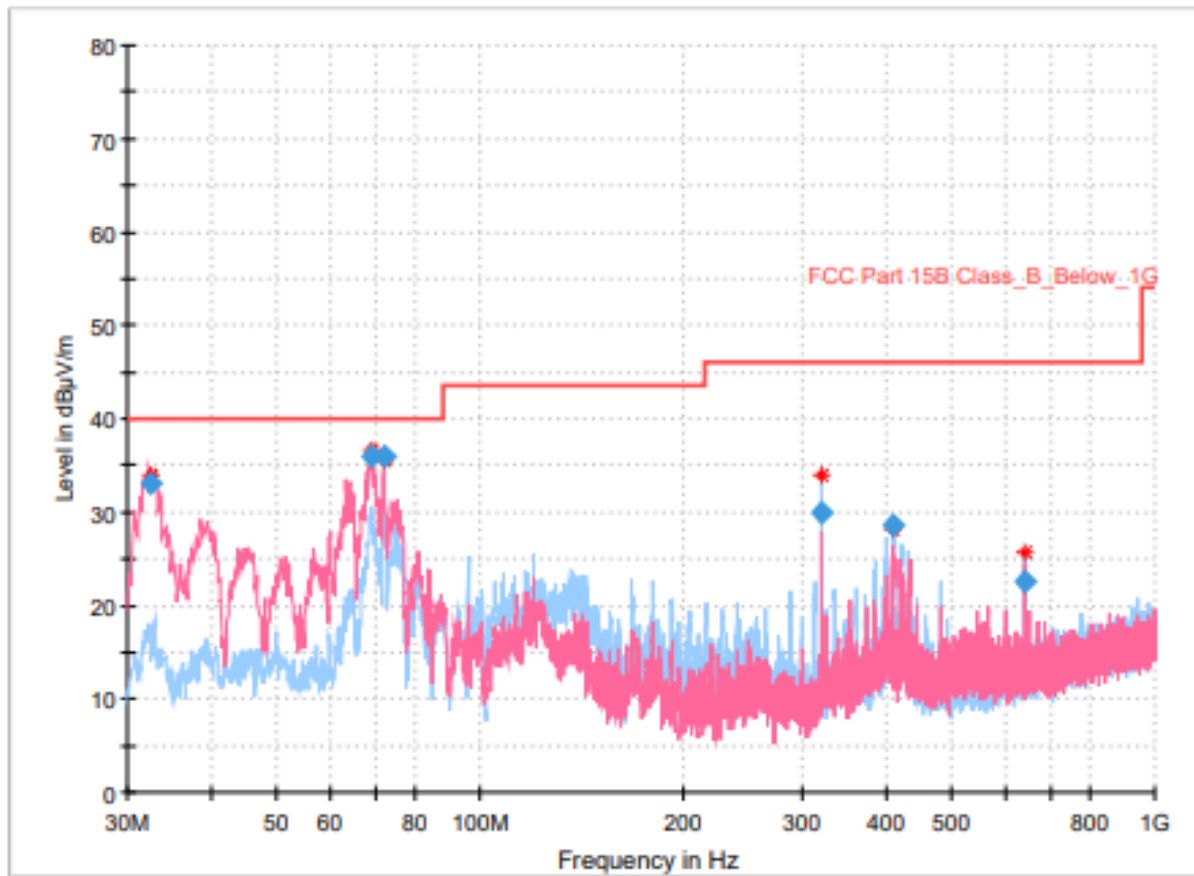
※ Ant. Pol. : Antenna Polarization

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

※ Result = Reading + Corr. Factor

※ Margin = Limit – Result

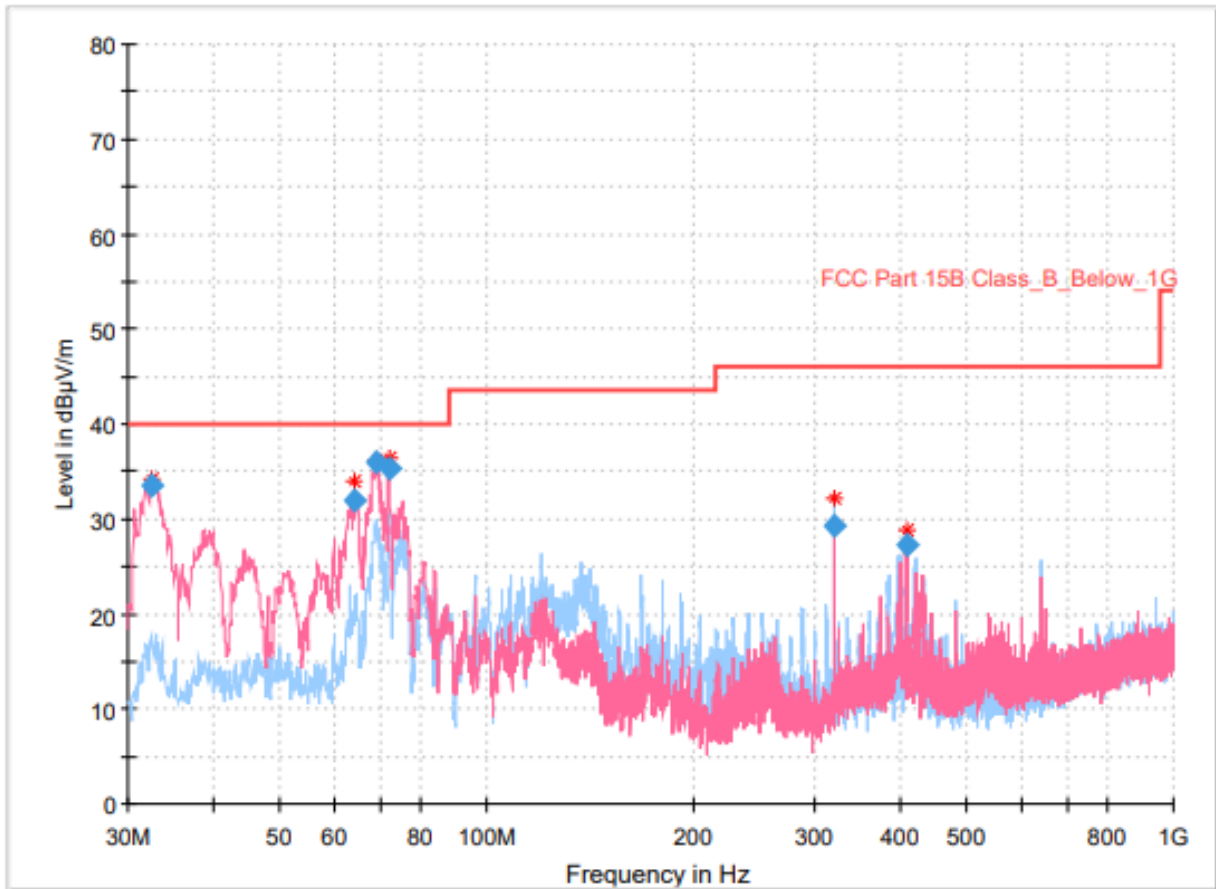
Measurement Results for below 1 GHz (3DH5)



Final Result

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
32.522000	33.11	40.00	6.89	1000.0	120.000	99.9	V	0.0	-25.4
69.091000	36.08	40.00	3.92	1000.0	120.000	99.9	V	249.0	-24.3
72.001000	35.87	40.00	4.13	1000.0	120.000	99.9	V	235.0	-25.5
320.030000	30.02	46.00	15.98	1000.0	120.000	99.9	H	25.0	-20.4
408.494000	28.52	46.00	17.48	1000.0	120.000	99.9	H	214.0	-18.2
639.936000	22.57	46.00	23.43	1000.0	120.000	99.9	H	134.0	-15.2

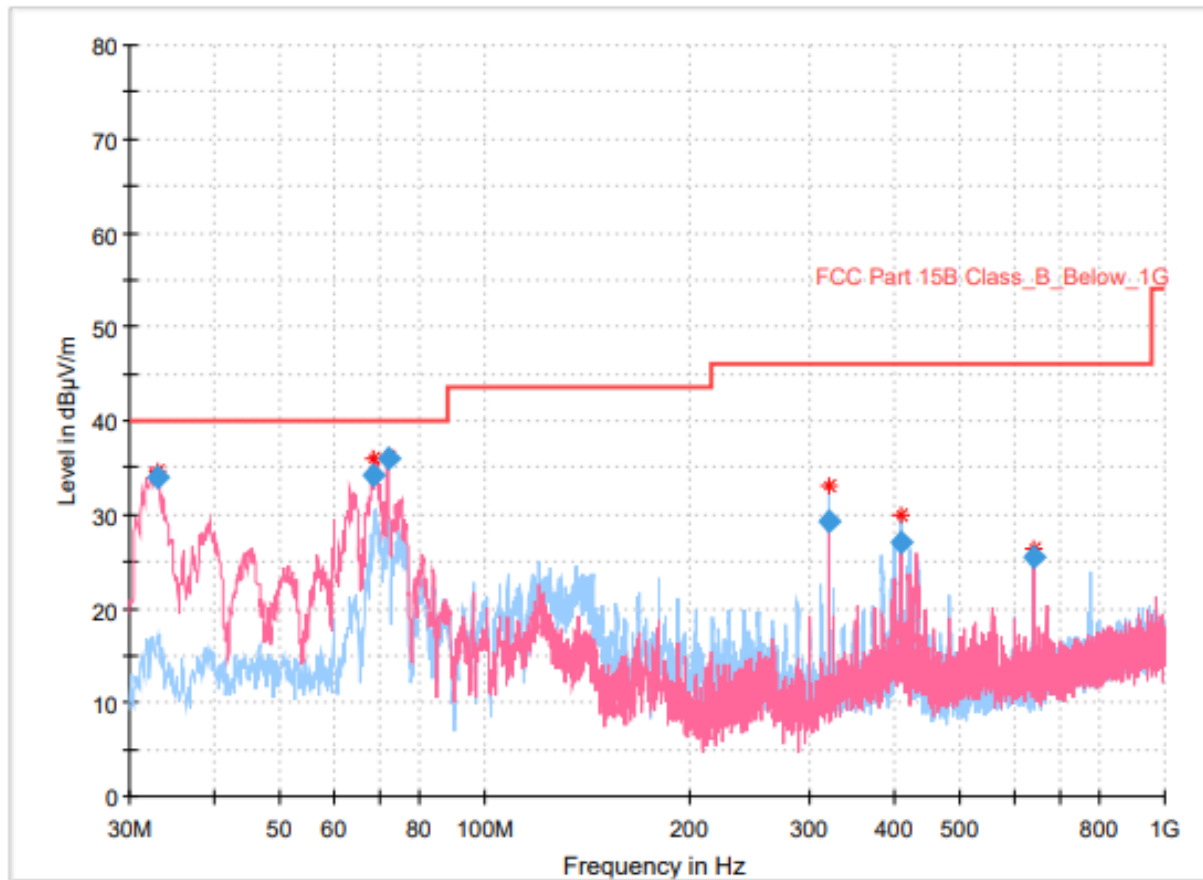
Low CH



Final Result

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
32.425000	33.46	40.00	6.54	1000.0	120.000	99.9	V	20.0	-25.4
64.047000	32.00	40.00	8.00	1000.0	120.000	99.9	V	260.0	-22.6
69.091000	35.89	40.00	4.11	1000.0	120.000	99.9	V	233.0	-24.3
72.001000	35.40	40.00	4.60	1000.0	120.000	99.9	V	303.0	-25.5
319.933000	29.25	46.00	16.75	1000.0	120.000	99.9	H	0.0	-20.4
408.494000	27.22	46.00	18.78	1000.0	120.000	99.9	H	198.0	-18.2

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)
32.910000	33.86	40.00	6.14	1000.0	120.000	99.9	V	0.0	-25.3
68.703000	34.25	40.00	5.75	1000.0	120.000	99.9	V	244.0	-24.2
72.001000	35.97	40.00	4.03	1000.0	120.000	99.9	V	244.0	-25.5
319.933000	29.31	46.00	16.69	1000.0	120.000	99.9	H	0.0	-20.4
408.009000	27.04	46.00	18.96	1000.0	120.000	99.9	H	198.0	-18.3

High CH



Measurement Results for Above 1 GHz (3DH5)

Frequency (MHz)	Reading (dBμV)	Detector	Ant. Pol. (H/V)	Corr. Factor (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
Low CH							
4 804.19	Peak	V	39.85	-3.50	43.35	73.98	30.63
	Average	V	26.94		30.44	53.98	23.54
6 000.00	Peak	V	47.61	-1.70	49.31	73.98	24.67
	Average	V	41.95		43.65	53.98	10.33
7 208.28	Peak	H	46.67	0.70	45.97	73.98	28.01
	Average	H	33.40		32.70	53.98	21.28
9 608.00	Peak	V	52.40	3.80	48.60	73.98	25.38
	Average	V	39.39		35.59	53.98	18.39
Mid CH							
4 881.85	Peak	V	41.72	-2.90	44.62	73.98	29.36
	Average	V	30.09		32.99	53.98	20.99
6 000.14	Peak	V	49.17	-1.70	50.87	73.98	23.11
	Average	V	43.70		45.40	53.98	8.58
7 321.22	Peak	V	47.68	0.90	46.78	73.98	27.20
	Average	V	34.22		33.32	53.98	20.66
9 760.78	Peak	V	53.61	4.00	49.61	73.98	24.37
	Average	V	39.86		35.86	53.98	18.12



High CH							
3 306.47	Peak	H	34.20	-8.10	42.30	73.98	31.68
	Average	H	27.28		35.38	53.98	18.60
4 959.63	Peak	V	44.57	-2.70	47.27	73.98	26.71
	Average	V	33.28		35.98	53.98	18.00
6 000.43	Peak	V	44.02	-1.70	45.72	73.98	28.26
	Average	V	33.83		35.53	53.98	18.45
7 437.04	Peak	H	47.58	1.20	46.38	73.98	27.60
	Average	H	34.08		32.88	53.98	21.10
9 912.38	Peak	V	53.98	4.20	49.78	73.98	24.20
	Average	V	40.21		36.01	53.98	17.97

※ Ant. Pol. : Antenna Polarization

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

※ Result = Reading + Corr. Factor

※ Margin = Limit – Result

- END -