



FCC RF Test Report

APPLICANT : Ascom (Sweden) AB
EQUIPMENT : Myco 4 WiFi, Myco 4 Slim
BRAND NAME : ascom
MODEL NAME : SH4-AABC, SH4-AABB, SH4-ABBC, SH4-ABBB
FCC ID : BXZSH4
STANDARD : FCC Part 15 Subpart C §15.247
CLASSIFICATION : (DSS) Spread Spectrum Transmitter
TEST DATE(S) : Feb. 04, 2023 ~ Apr. 27, 2023

We, Sporton International Inc. (Shenzhen), would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International Inc. (Shenzhen), the test report shall not be reproduced except in full.

Jason Jia

Approved by: Jason Jia



Sporton International Inc. (ShenZhen)

1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan, Shenzhen, 518055

People's Republic of China



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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR2D0705A	Rev. 01	Initial issue of report	Jun. 27, 2023



SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.1	15.247(a)(1)	Number of Channels	$\geq 15\text{Chs}$	Pass	-
3.2	15.247(a)(1)	Hopping Channel Separation	$\geq 2/3$ of 20dB BW	Pass	-
3.3	15.247(a)(1)	Dwell Time of Each Channel	$\leq 0.4\text{sec}$ in 31.6sec period	Pass	-
3.4	15.247(a)(1)	20dB Bandwidth	-	Report only	-
3.4	-	99% Bandwidth	-	Report only	-
3.5	15.247(b)(1)	Peak Output Power	$\leq 125\text{ mW}$	Pass	-
3.6	15.247(d)	Conducted Band Edges	$\leq 20\text{dBc}$	Pass	-
3.7	15.247(d)	Conducted Spurious Emission	$\leq 20\text{dBc}$	Pass	-
3.8	15.247(d)	Radiated Band Edges and Radiated Spurious Emission	15.209(a) & 15.247(d)	Pass	Under limit 10.46 dB at 2390 MHz
3.9	15.207	AC Conducted Emission	15.207(a)	Pass	Under limit 13.78 dB at 0.18 MHz
3.10	15.203 & 15.247(b)	Antenna Requirement	15.203 & 15.247(b)	Pass	-
Remark: Not required means after assessing, test items are not necessary to carry out.					

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.



1 General Description

1.1 Applicant

Ascom (Sweden) AB

Grimbodalen 2, SE-417 49 Gothenburg, Sweden

1.2 Manufacturer

Ascom (Sweden) AB

Grimbodalen 2, SE-417 49 Gothenburg, Sweden

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Myco 4 WiFi, Myco 4 Slim
Brand Name	ascom
Model Name	SH4-AABC, SH4-AABB, SH4-ABBC, SH4-ABBB
FCC ID	BXZSH4
SN Code	Conducted: 2211c95e Conduction: 32fa7a52 Radiation: 32fa7a52
HW Version	V0.50
SW Version	SH4_ASCOM_A12
EUT Stage	Production Unit

Remark:

1. The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.
2. There are two SKUs under test, SKU 2 and SKU 3. The differences can be referred to the SH4-AABC, SH4-AABB, SH4-ABBC, SH4-ABBB_Operational Description of Product Equality Declaration which is exhibit separately. Each SKU has different IR/Scanner/Antenna configurations, the details are shown as below. According to the differences, we choose SKU2_Sample 1 to perform full test, and SKU3_Sample 3 verify the RSE worst case.

SKU	IR	Scanner	2.4G BT/WIFI Antenna
SKU2_Sample 1	Yes	Yes	Same
SKU2_Sample 2	No	Yes	Same
SKU3_Sample 3	No	No	Different

1.4 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx/Rx Frequency Range	2402 MHz ~ 2480 MHz
Number of Channels	79
Carrier Frequency of Each Channel	2402+n*1 MHz; n=0~78
Maximum Output Power to Antenna	<Ant5> Bluetooth BR(1Mbps) : 8.89 dBm (0.0077 W) Bluetooth EDR (2Mbps) : 9.26 dBm (0.0084 W) Bluetooth EDR (3Mbps) : 9.37 dBm (0.0086 W) <Ant6> Bluetooth BR(1Mbps) : 7.96 dBm (0.0063 W) Bluetooth EDR (2Mbps) : 8.67 dBm (0.0074 W) Bluetooth EDR (3Mbps) : 8.94 dBm (0.0078 W)
99% Occupied Bandwidth	<Ant5> Bluetooth BR(1Mbps) : 0.839MHz Bluetooth EDR (2Mbps) : 1.181MHz Bluetooth EDR (3Mbps) : 1.184MHz <Ant6> Bluetooth BR(1Mbps) : 0.836MHz Bluetooth EDR (2Mbps) : 1.181MHz Bluetooth EDR (3Mbps) : 1.184MHz
Antenna Type / Gain	SKU2 <Ant5> PIFA Antenna type with gain 0.2 dBi <Ant6> PIFA Antenna type with gain 0.1 dBi SKU3 <Ant5> PIFA Antenna type with gain -0.98 dBi <Ant6> PIFA Antenna type with gain -1.37 dBi
Type of Modulation	Bluetooth BR (1Mbps) : GFSK Bluetooth EDR (2Mbps) : $\pi/4$ -DQPSK Bluetooth EDR (3Mbps) : 8-DPSK

1.5 Modification of EUT

No modifications are made to the EUT during all test items.

1.6 Testing Location

Sporton International Inc. (Shenzhen) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.01.

Test Firm	Sporton International Inc. (Shenzhen)		
Test Site Location	1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan, Shenzhen, 518055 People's Republic of China TEL: +86-755-86379589 FAX: +86-755-86379595		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	CO01-SZ TH01-SZ	CN1256	421272

Test Firm	Sporton International Inc. (Shenzhen)		
Test Site Location	101, 1st Floor, Block B, Building 1, No. 2, Tengfeng 4th Road, Fenghuang Community, Fuyong Street, Baoan District, Shenzhen City Guangdong Province China 518103 TEL: +86-755-33202398		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	03CH03-SZ	CN1256	421272

1.7 Test Software

Item	Site	Manufacturer	Name	Version
1.	03CH03-SZ	AUDIX	E3	6.2009-8-24
2.	CO01-SZ	AUDIX	E3	6.120613b

1.8 Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ 47 CFR Part 15 Subpart C §15.247
- ♦ FCC KDB 558074 D01 15.247 Meas Guidance v05r02
- ♦ ANSI C63.10-2013

Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.



2 Test Configuration of Equipment Under Test

2.1 Carrier Frequency Channel

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)
2400-2483.5 MHz	0	2402	27	2429	54	2456
	1	2403	28	2430	55	2457
	2	2404	29	2431	56	2458
	3	2405	30	2432	57	2459
	4	2406	31	2433	58	2460
	5	2407	32	2434	59	2461
	6	2408	33	2435	60	2462
	7	2409	34	2436	61	2463
	8	2410	35	2437	62	2464
	9	2411	36	2438	63	2465
	10	2412	37	2439	64	2466
	11	2413	38	2440	65	2467
	12	2414	39	2441	66	2468
	13	2415	40	2442	67	2469
	14	2416	41	2443	68	2470
	15	2417	42	2444	69	2471
	16	2418	43	2445	70	2472
	17	2419	44	2446	71	2473
	18	2420	45	2447	72	2474
	19	2421	46	2448	73	2475
	20	2422	47	2449	74	2476
	21	2423	48	2450	75	2477
	22	2424	49	2451	76	2478
	23	2425	50	2452	77	2479
	24	2426	51	2453	78	2480
	25	2427	52	2454	-	-
	26	2428	53	2455	-	-



2.2 Test Mode

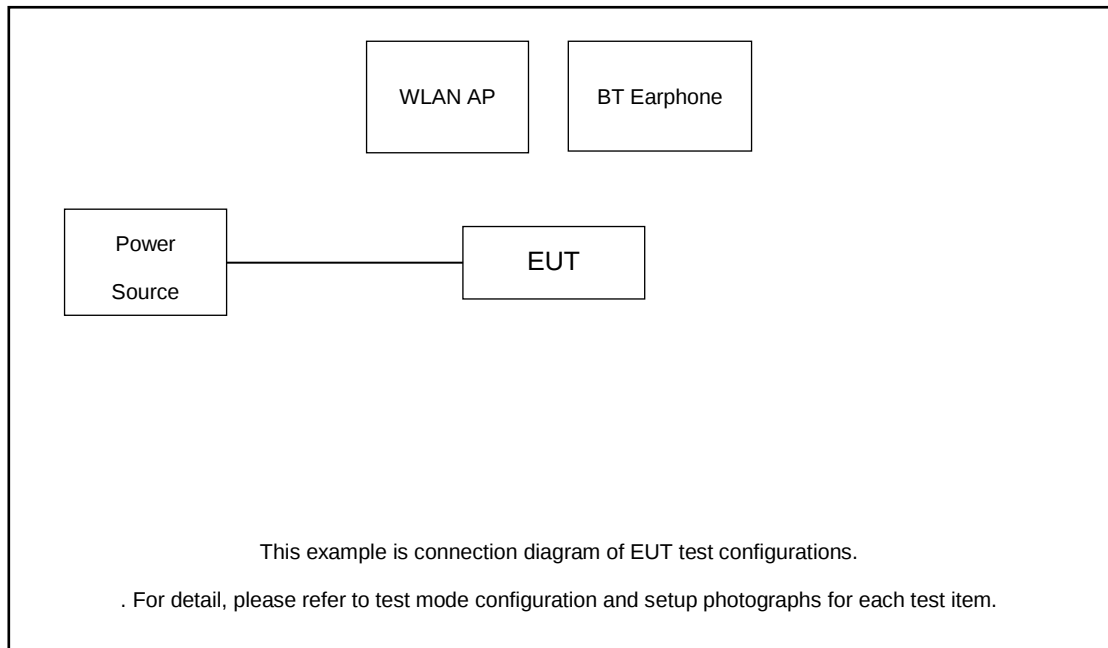
- a. The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: conduction emission (150 kHz to 30 MHz), radiation emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases (Y/Z plane) were recorded in this report, and the worst mode of radiated spurious emissions is Bluetooth 3Mbps mode, and recorded in this report.
- b. AC power line Conducted Emission was tested under maximum output power.

The following summary table is showing all test modes to demonstrate in compliance with the standard.

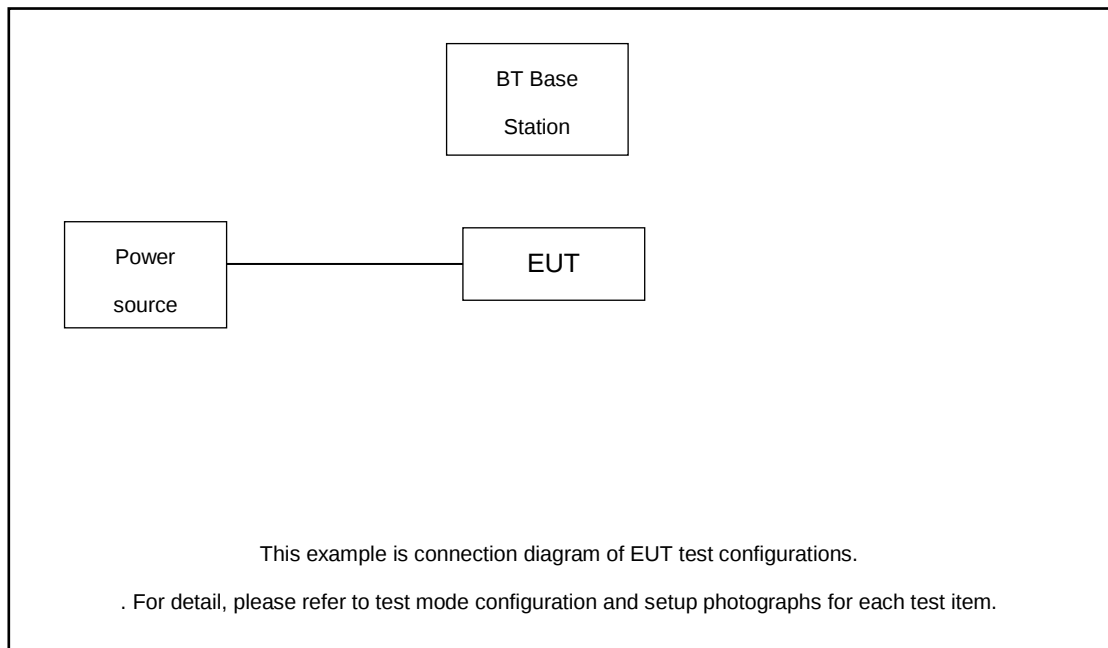
Summary table of Test Cases			
Test Item	Data Rate / Modulation		
	Bluetooth BR 1Mbps GFSK	Bluetooth EDR 2Mbps π/4-DQPSK	Bluetooth EDR 3Mbps 8-DPSK
Conducted Test Cases	Mode 1: CH00_2402 MHz	Mode 4: CH00_2402 MHz	Mode 7: CH00_2402 MHz
	Mode 2: CH39_2441 MHz	Mode 5: CH39_2441 MHz	Mode 8: CH39_2441 MHz
	Mode 3: CH78_2480 MHz	Mode 6: CH78_2480 MHz	Mode 9: CH78_2480 MHz
Radiated Test Cases	Bluetooth EDR 3Mbps 8-DPSK		
	Mode 1: CH00_2402 MHz for SKU2		
	Mode 2: CH39_2441 MHz for SKU2		
	Mode 3: CH78_2480 MHz for SKU2		
	Mode 4: CH00_2402 MHz for SKU3		
AC Conducted Emission	Mode 1 : Bluetooth Link + WLAN Link (2.4G) + Adapter + USB Cable + Battery 1		
Remark:			
1. For radiated test cases, the worst mode data rate 3Mbps was reported only, because this data rate has the highest RF output power at preliminary tests, and no other significantly frequencies found in conducted spurious emission.			
2. For Radiated Test Cases, The tests were performed with Adapter and USB Cable .			
3. Between the SKU2 and SKU3 RSE test data, only the worst RSE test data of SKU2 is reported.			

2.3 Connection Diagram of Test System

AC Conducted Emission:



Radiated Emission:



2.4 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	BT Base Station	R&S	CBT	N/A	N/A	Unshielded,1.8m
2.	Bluetooth Earphone	Samsung	EO-MG900	PYAHS-107W	N/A	N/A
3.	WLAN AP	Dlink	DIR-820L	KA2IR820LA1	N/A	Unshielded,1.8m
4.	Adapter	N/A	N/A	N/A	N/A	N/A
5.	USB Cable	N/A	N/A	N/A	N/A	N/A

2.5 EUT Operation Test Setup

For Bluetooth function, the engineering test program was provided and enabled to make EUT connect with Bluetooth base station to continuous transmit.

For AC power line conducted emissions, the EUT was set to connect with the WLAN AP under large package sizes transmission.

2.6 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

Example :

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

Offset = RF cable loss + attenuator factor.

Following shows an offset computation example with cable loss 1.20 dB and 10dB attenuator.

$$\begin{aligned}\text{Offset(dB)} &= \text{RF cable loss(dB)} + \text{attenuator factor(dB)} \\ &= 1.20 + 10 = 11.20 \text{ (dB)}\end{aligned}$$

3 Test Result

3.1 Number of Channel Measurement

3.1.1 Limits of Number of Hopping Frequency

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

3.1.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.1.3 Test Procedure

1. The testing follows ANSI C63.10-2013 clause 7.8.3.
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Enable the EUT hopping function.
5. Use the following spectrum analyzer settings: Span = the frequency band of operation;
RBW = 300kHz; VBW $\geq$ RBW; Sweep = auto; Detector function = peak; Trace = max hold.
6. The number of hopping frequency used is defined as the number of total channel.
7. Record the measurement data derived from spectrum analyzer.

3.1.4 Test Setup



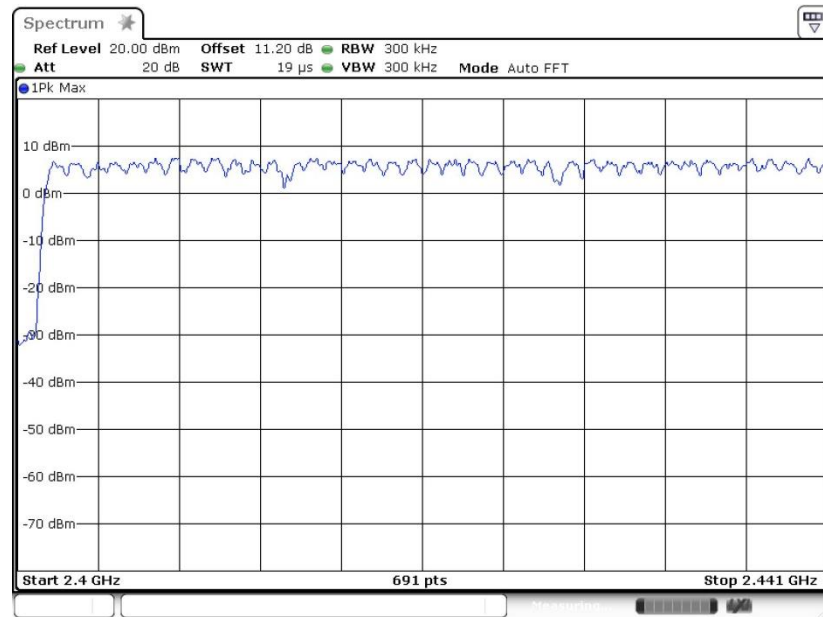
3.1.5 Test Result of Number of Hopping Frequency

Please refer to Appendix A.



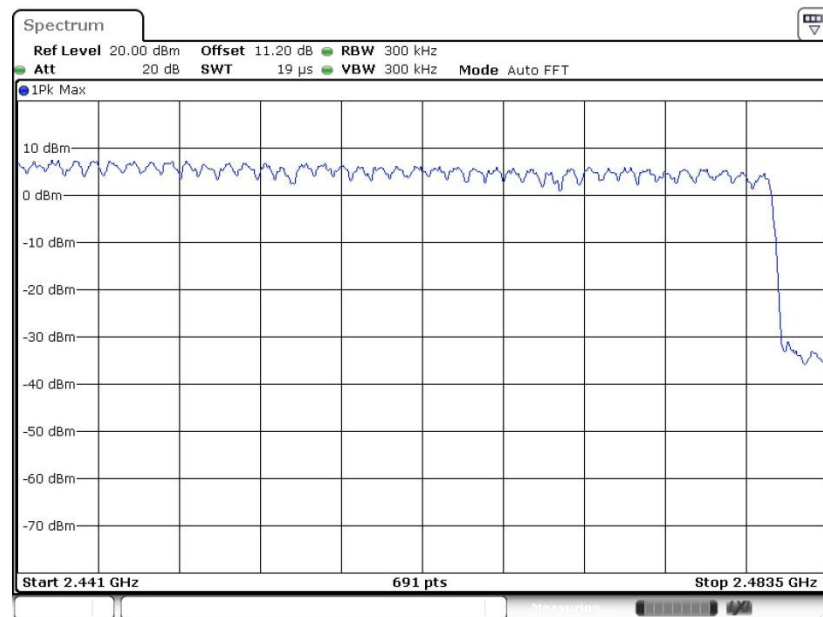
<Ant5>

Number of Hopping Channel Plot on Channel 00 - 78



Date: 21.APR.2023 14:55:30

Number of Hopping Channel Plot on Channel 00 - 78

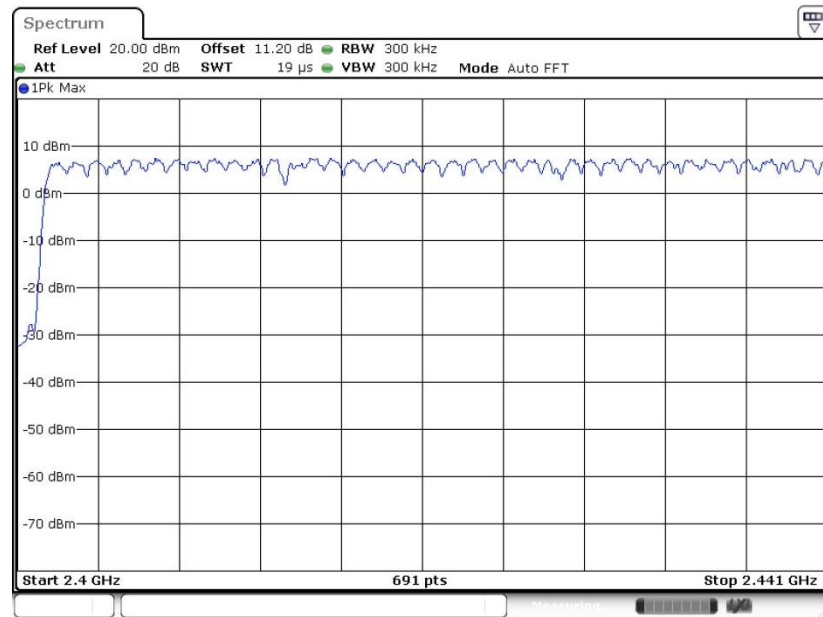


Date: 21.APR.2023 14:56:29



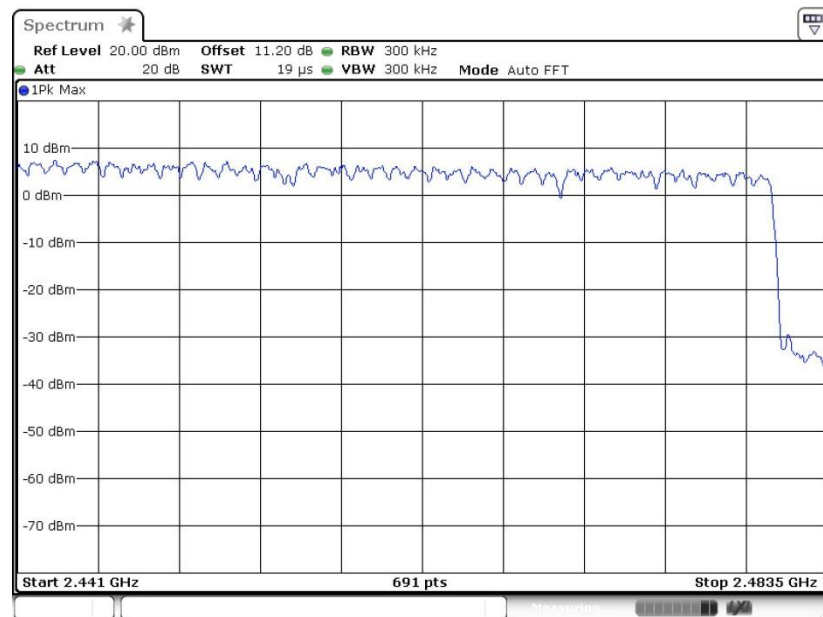
<Ant6>

Number of Hopping Channel Plot on Channel 00 - 78



Date: 21.APR.2023 14:52:22

Number of Hopping Channel Plot on Channel 00 - 78



Date: 21.APR.2023 14:53:15

3.2 Hopping Channel Separation Measurement

3.2.1 Limit of Hopping Channel Separation

Frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater.

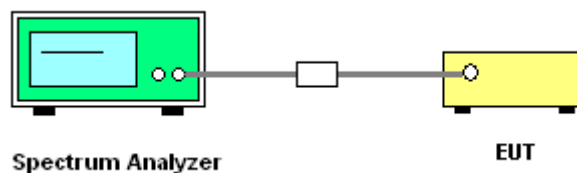
3.2.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.2.3 Test Procedures

1. The testing follows ANSI C63.10-2013 clause 7.8.2.
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Enable the EUT hopping function.
5. Use the following spectrum analyzer settings:
Span = wide enough to capture the peaks of two adjacent channels;
RBW = 300kHz; VBW $\geq$ RBW; Sweep = auto; Detector function = peak; Trace = max hold.
6. Measure and record the results in the test report.

3.2.4 Test Setup



3.2.5 Test Result of Hopping Channel Separation

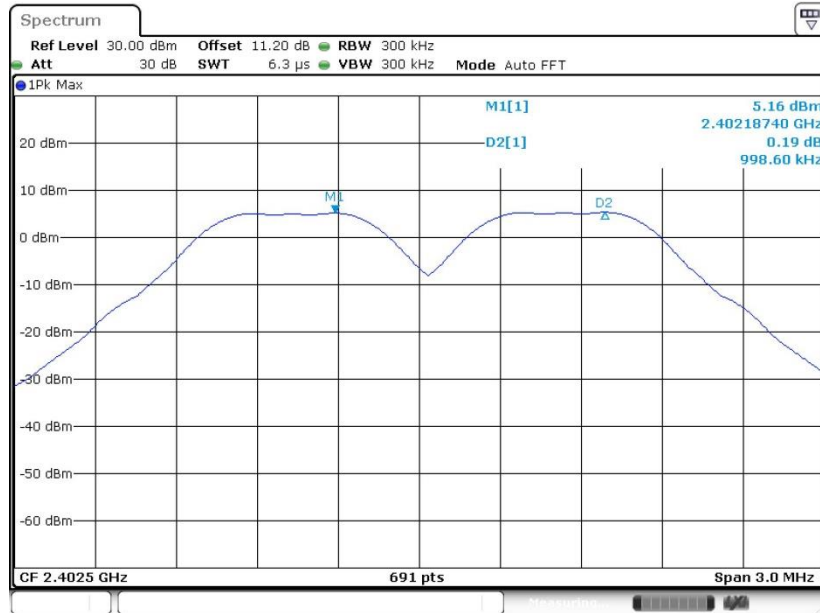
Please refer to Appendix A.



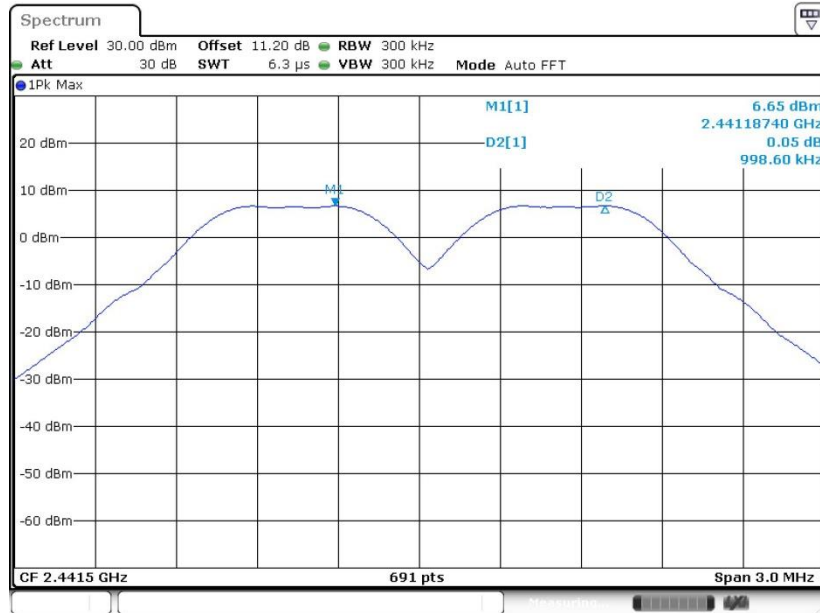
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<1Mbps>

Channel Separation Plot on Channel 00 - 01

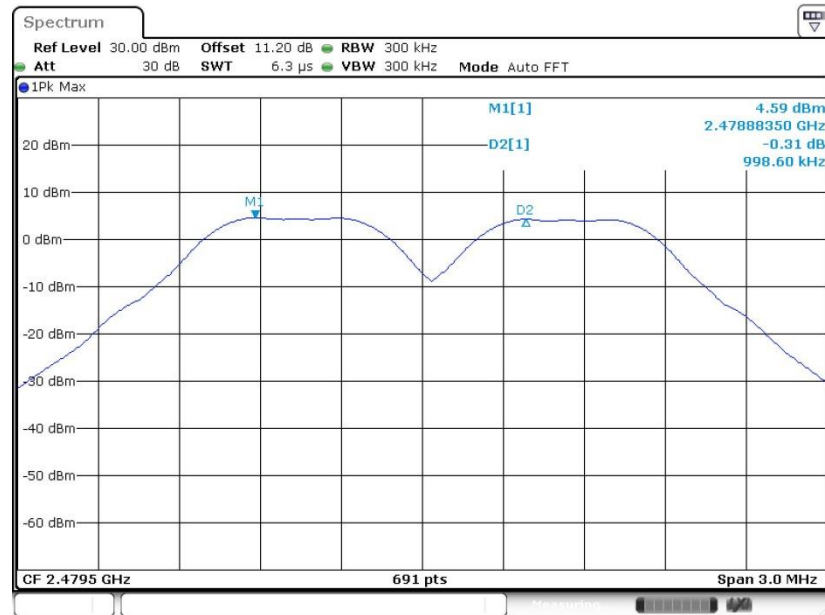


Channel Separation Plot on Channel 39 - 40





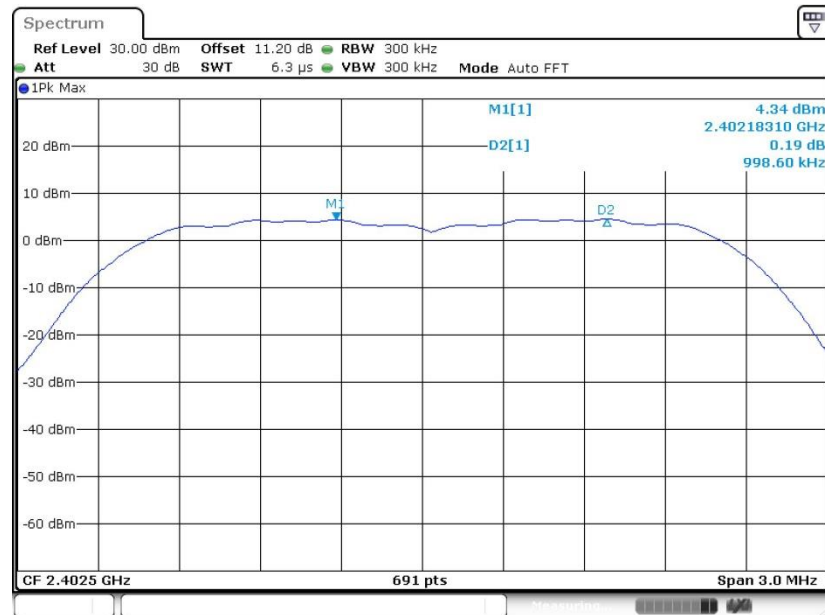
Channel Separation Plot on Channel 77 - 78



Date: 24.MAR.2023 01:30:23

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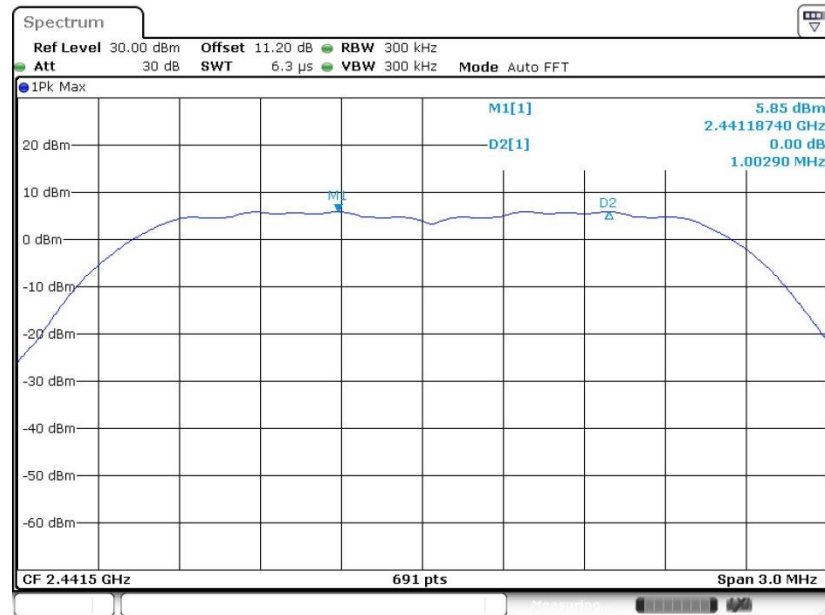
Channel Separation Plot on Channel 00 - 01



Date: 24.MAR.2023 01:39:41

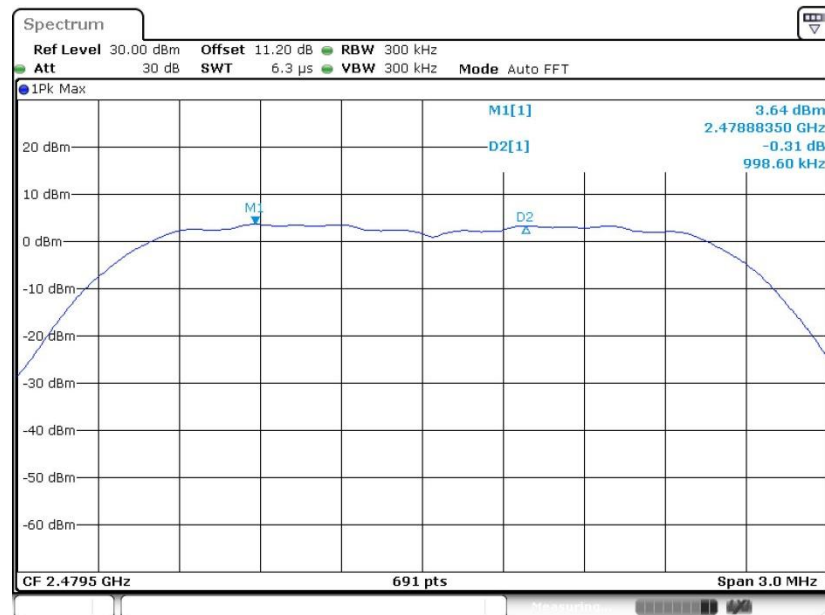


Channel Separation Plot on Channel 39 - 40



Date: 24.MAR.2023 01:44:42

Channel Separation Plot on Channel 77 - 78

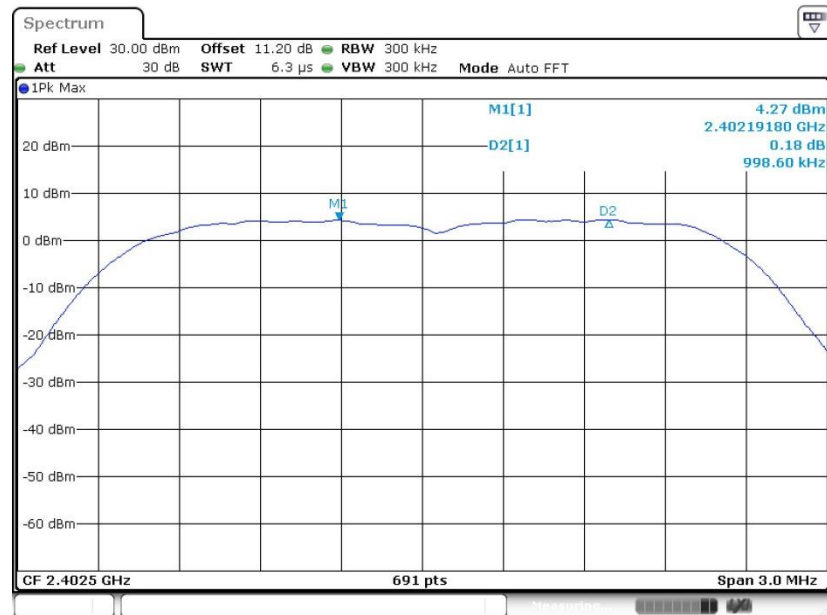


Date: 24.MAR.2023 01:53:26



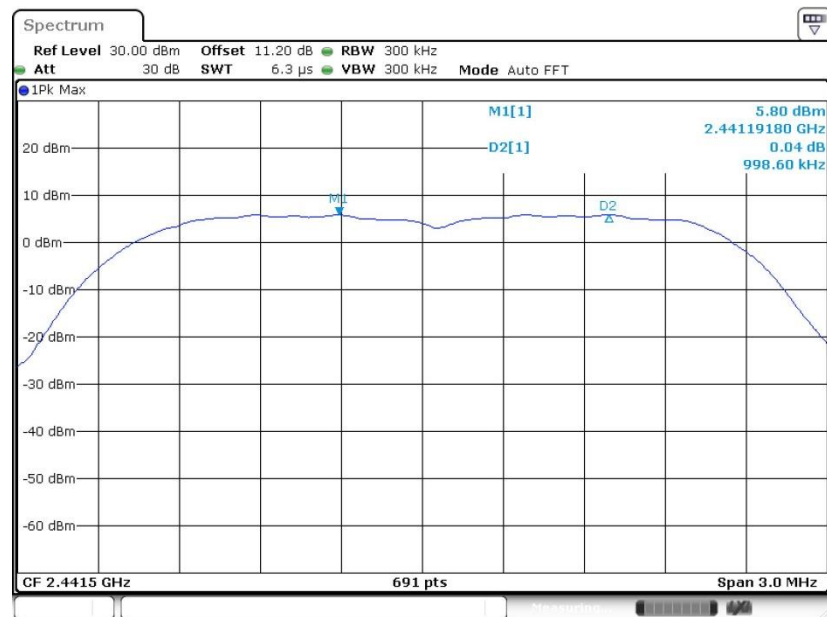
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Channel Separation Plot on Channel 00 - 01



Date: 24.MAR.2023 02:03:02

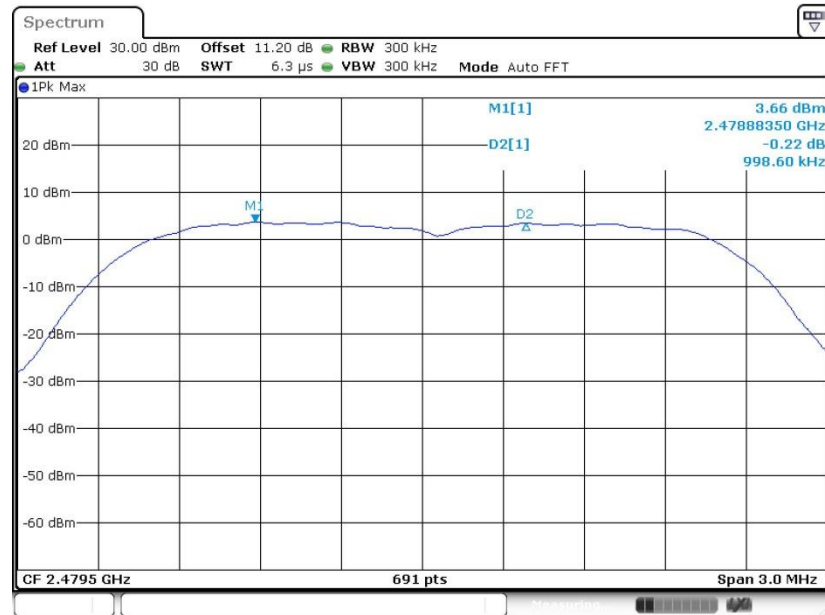
Channel Separation Plot on Channel 39 - 40



Date: 24.MAR.2023 02:09:18



Channel Separation Plot on Channel 77 - 78

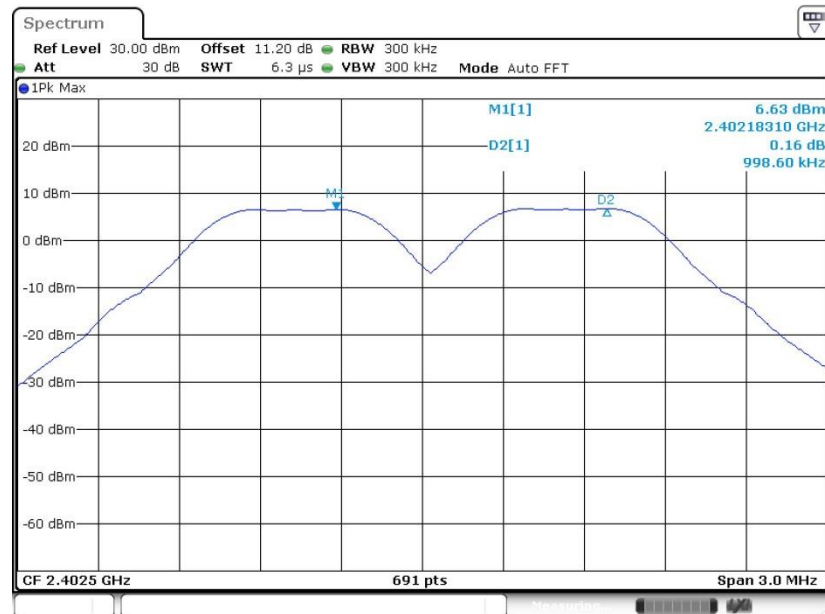


Date: 24.MAR.2023 02:14:04

<Ant6>

<1Mbps>

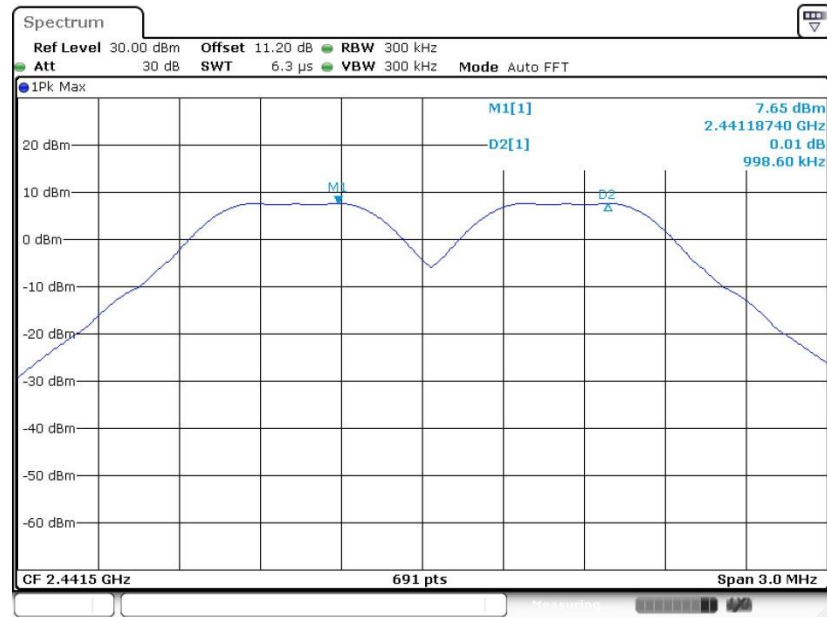
Channel Separation Plot on Channel 00 - 01



Date: 4.MAR.2023 00:39:38

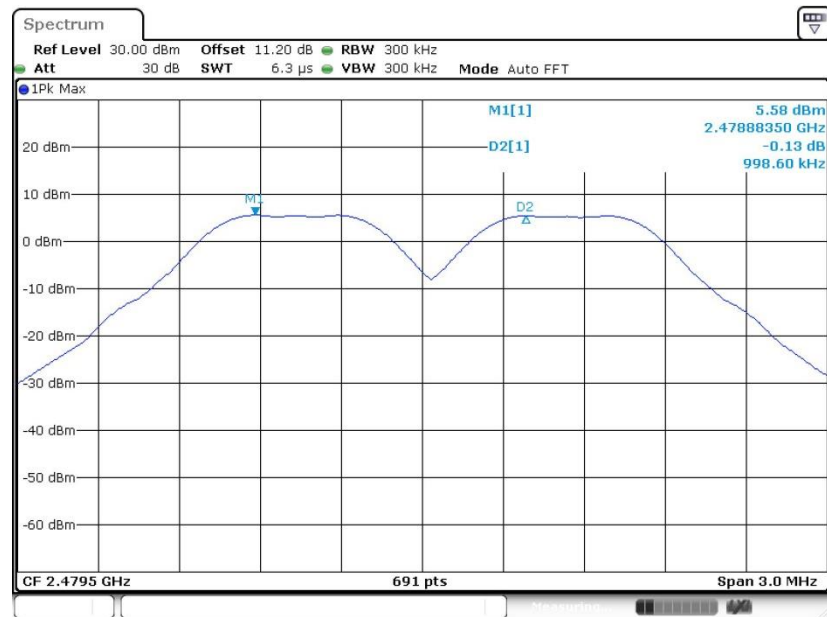


Channel Separation Plot on Channel 39 - 40



Date: 4.MAR.2023 00:44:45

Channel Separation Plot on Channel 77 - 78

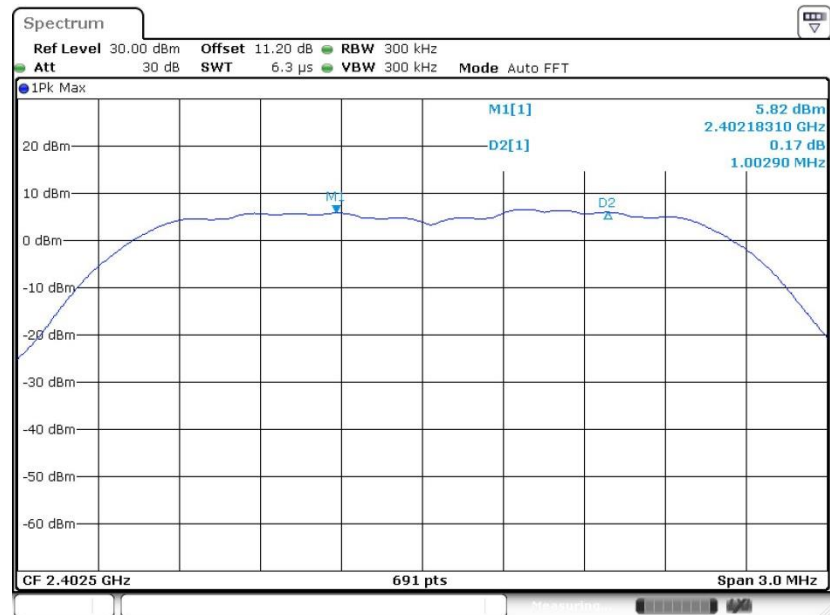


Date: 4.MAR.2023 00:45:46



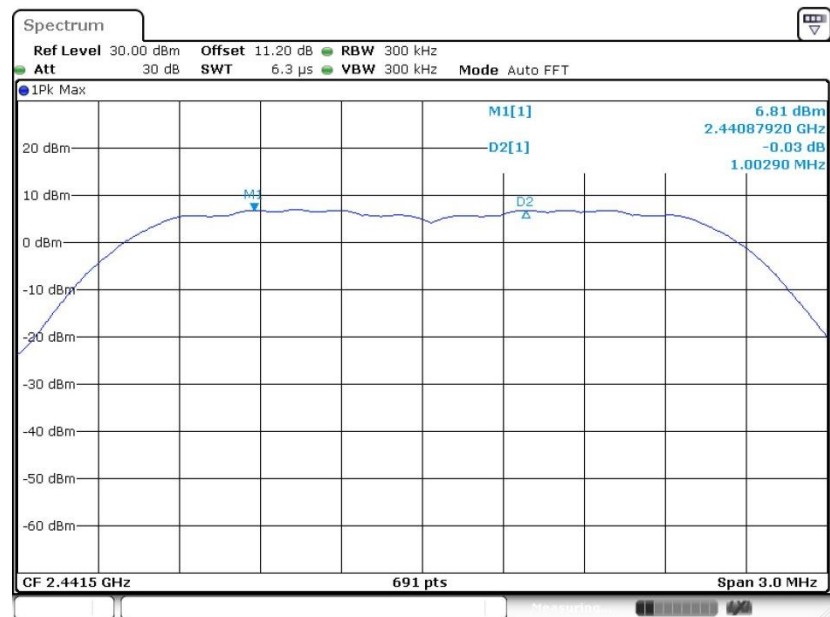
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Channel Separation Plot on Channel 00 - 01



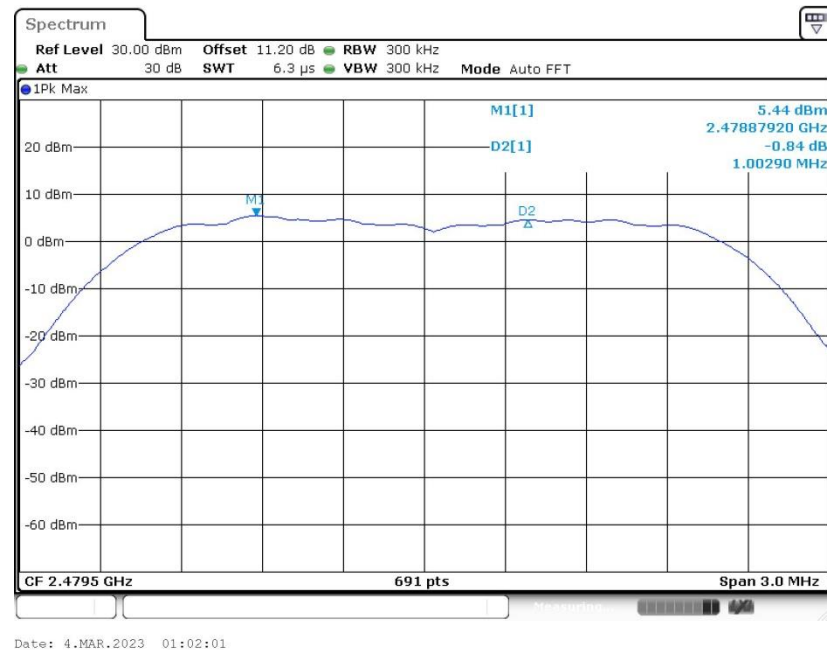
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Channel Separation Plot on Channel 39 - 40



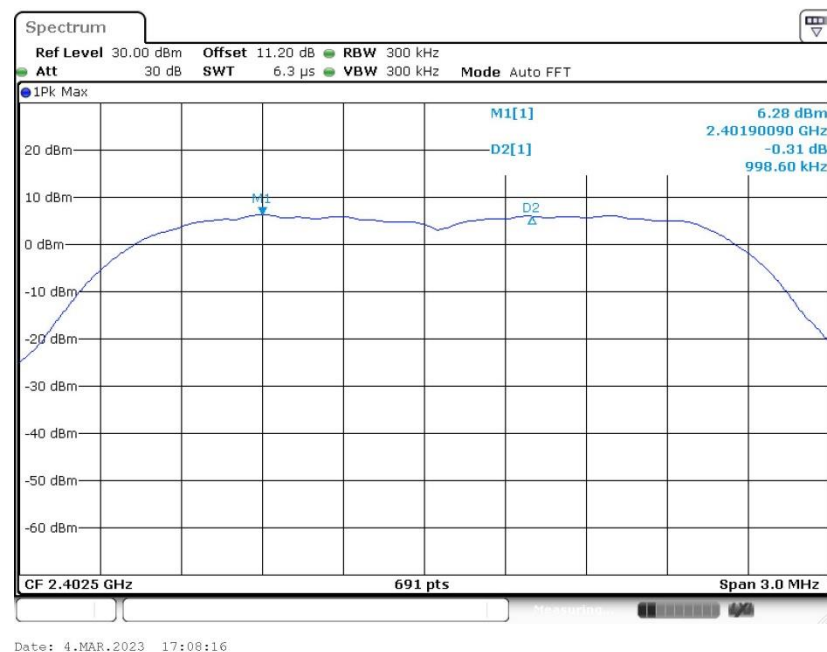
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Channel Separation Plot on Channel 77 - 78



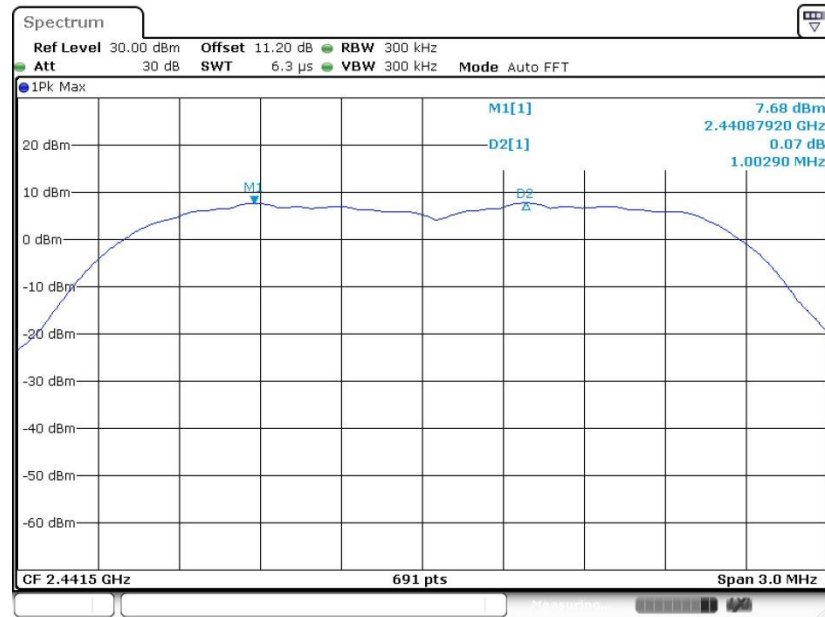
<3Mbps>

Channel Separation Plot on Channel 00 - 01



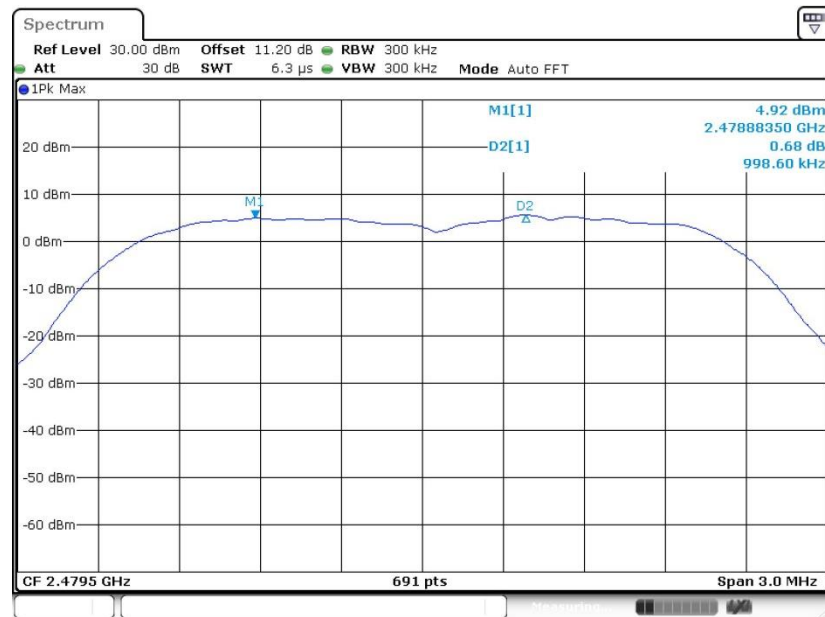


Channel Separation Plot on Channel 39 - 40



Date: 4.MAR.2023 17:16:03

Channel Separation Plot on Channel 77 - 78



Date: 4.MAR.2023 17:28:05

3.3 Dwell Time Measurement

3.3.1 Limit of Dwell Time

The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed.

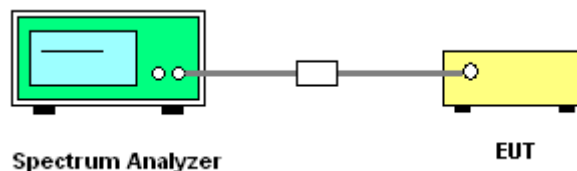
3.3.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.3.3 Test Procedures

1. The testing follows ANSI C63.10-2013 clause 7.8.4.
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Enable the EUT hopping function.
5. Use the following spectrum analyzer settings: Span = zero span, centered on a hopping channel; RBW = 1 MHz; VBW $\geq$ RBW; Sweep = as necessary to capture the entire dwell time per hopping channel; Detector function = peak; Trace = max hold.
6. Measure and record the results in the test report.

3.3.4 Test Setup

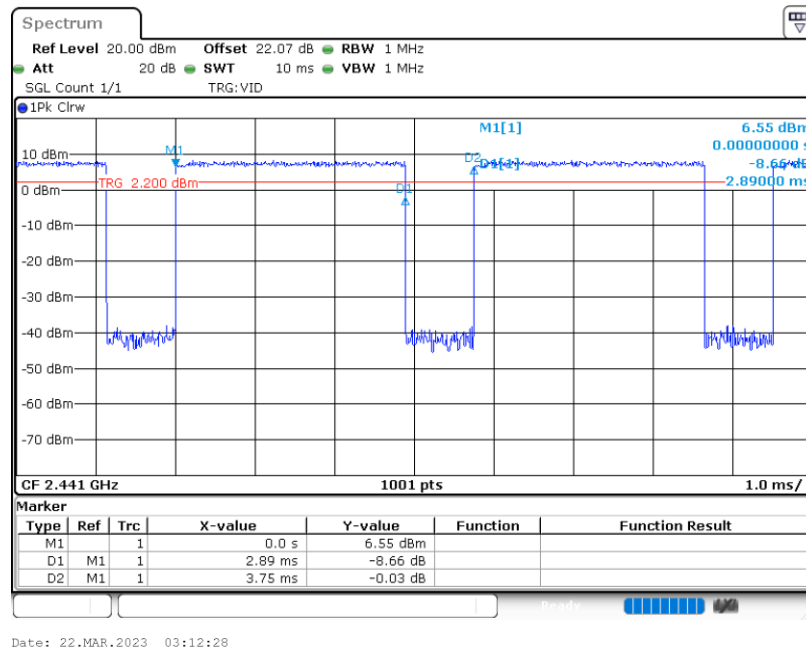




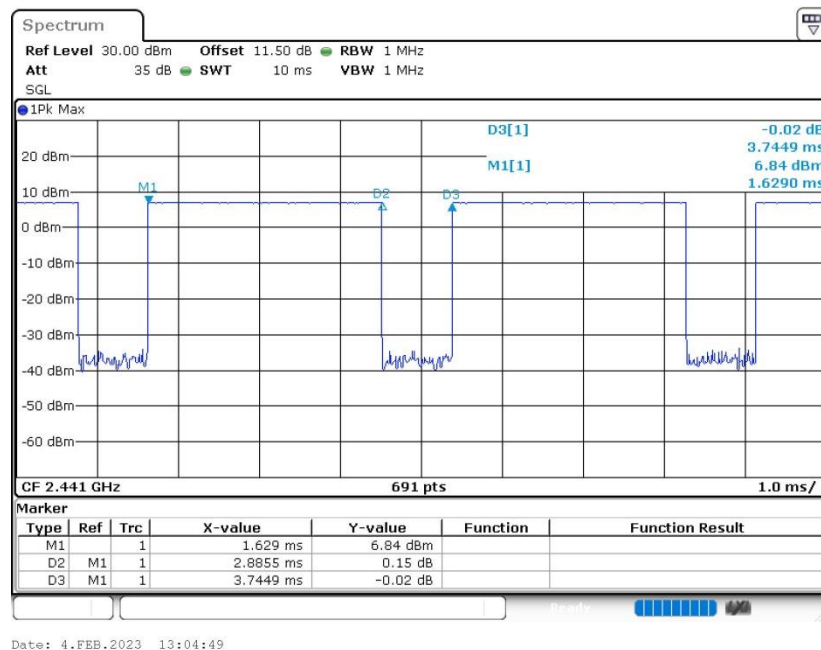
3.3.5 Test Result of Dwell Time

Please refer to Appendix A.

Package Transfer Time Plot-<Ant5>



Package Transfer Time Plot-<Ant6>



Remark:

1. In normal mode, hopping rate is 1600 hops/s with 6 slots (5 Transmit and 1 Receive slot)



in 79 hopping channels.

With channel hopping rate $(1600 / 6 / 79)$ in Occupancy Time Limit (0.4×79) (s),

Hops Over Occupancy Time comes to $(1600 / 6 / 79) \times (0.4 \times 79) = 106.67$ hops.

2. In AFH mode, hopping rate is 800 hops/s with 6 slots in 20 hopping channels.

With channel hopping rate $(800 / 6 / 20)$ in Occupancy Time Limit (0.4×20) (s),

Hops Over Occupancy Time comes to $(800 / 6 / 20) \times (0.4 \times 20) = 53.33$ hops.

3. Dwell Time(s) = Hops Over Occupancy Time (hops) x Package Transfer Time

3.4 20dB and 99% Bandwidth Measurement

3.4.1 Limit of 20dB and 99% Bandwidth

Reporting only

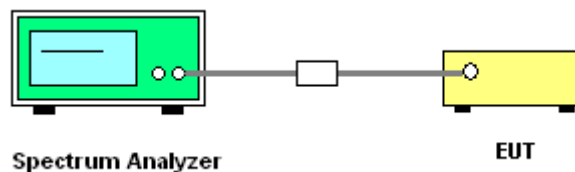
3.4.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.4.3 Test Procedures

1. The testing follows ANSI C63.10-2013 clause 6.9.2 and 6.9.3.
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Use the following spectrum analyzer settings for 20dB Bandwidth measurement.
Span = approximately 2 to 5 times the 20 dB bandwidth, centered on a hopping channel;
The RBW is set to 1% to 5% of the 99% OBW, the VBW is set to 3 times the RBW;
Sweep = auto; Detector function = peak;
Trace = max hold.
5. Use the following spectrum analyzer settings for 99 % Bandwidth measurement.
Span = approximately 1.5 to 5 times the 99% bandwidth, centered on a hopping channel;
The RBW is set to 1% to 5% of the 99% OBW, the VBW is set to 3 times the RBW;
Sweep = auto; Detector function = peak;
Trace = max hold.
6. Measure and record the results in the test report.

3.4.4 Test Setup



3.4.5 Test Result of 20dB Bandwidth

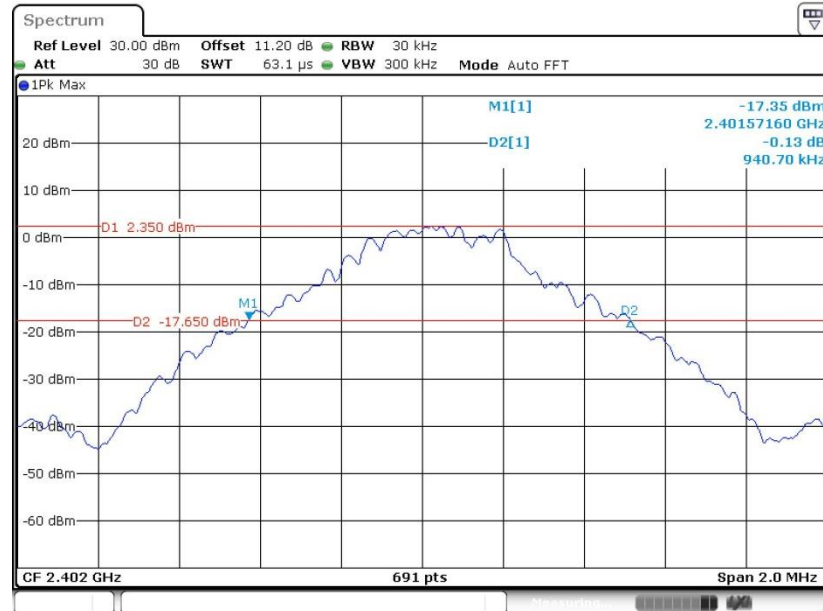
Please refer to Appendix A.



<Ant5>

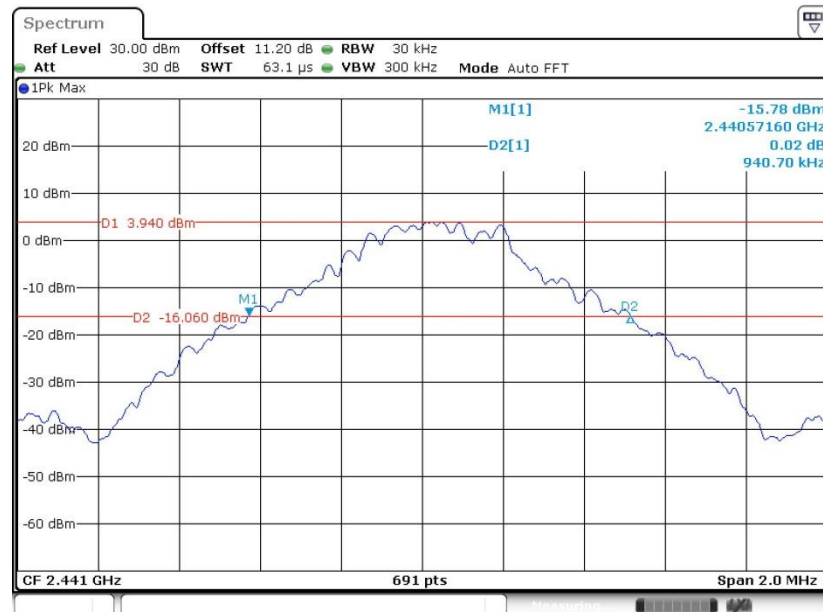
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20 dB Bandwidth Plot on Channel 00



Date: 24.MAR.2023 01:10:19

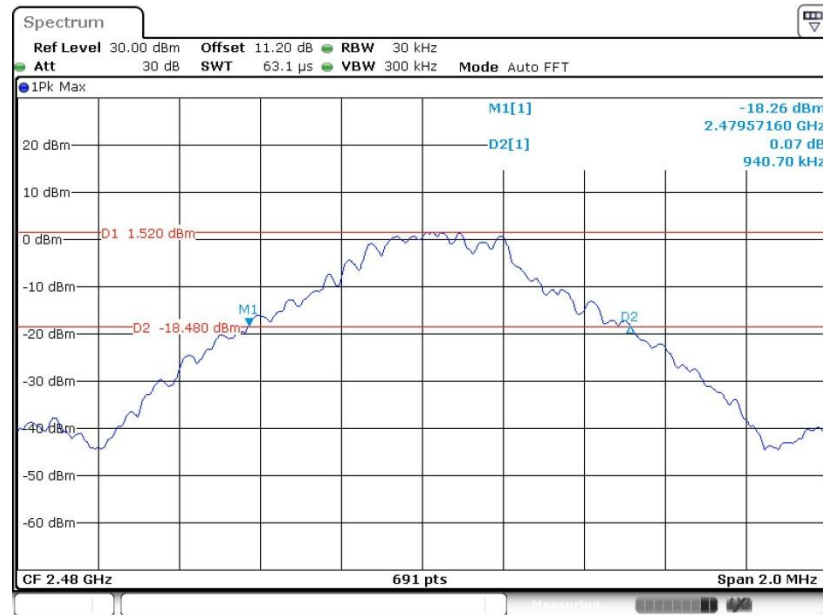
20 dB Bandwidth Plot on Channel 39



Date: 24.MAR.2023 01:19:19



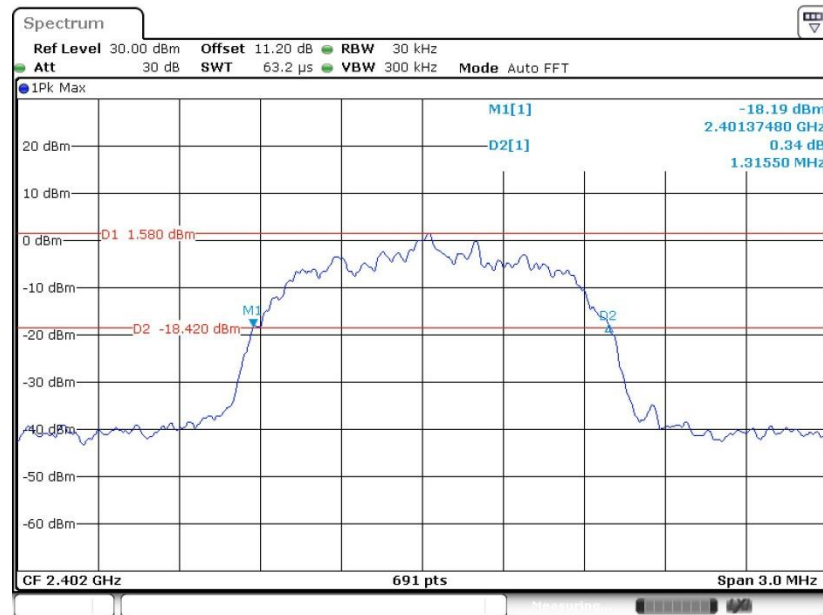
20 dB Bandwidth Plot on Channel 78



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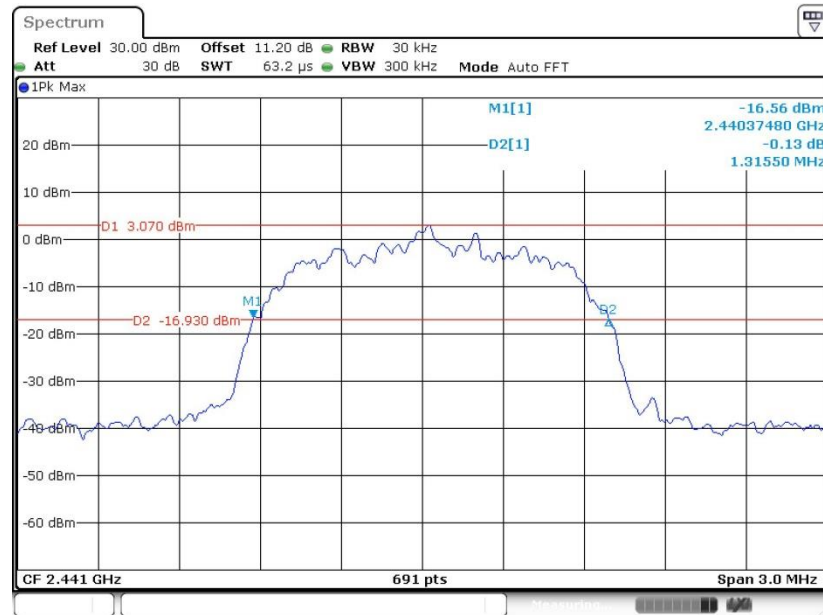
20 dB Bandwidth Plot on Channel 00



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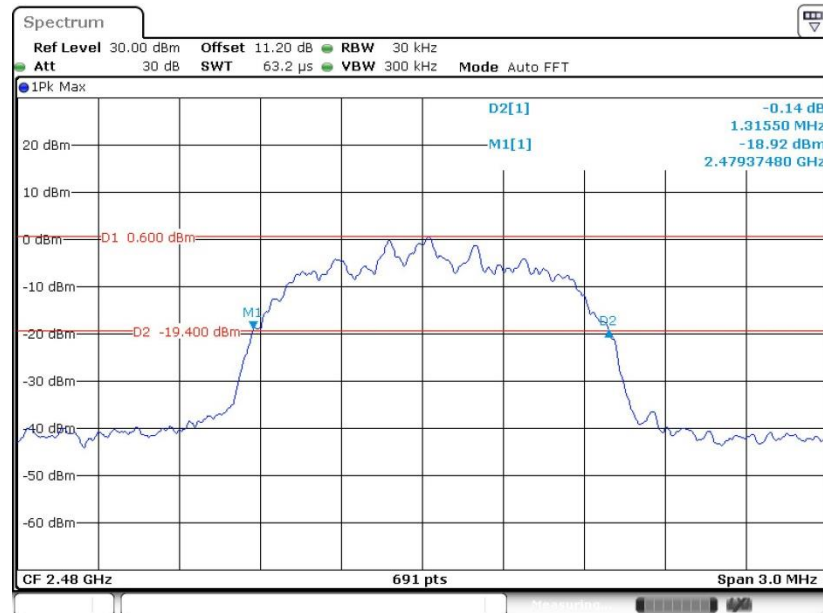


20 dB Bandwidth Plot on Channel 39



Date: 24.MAR.2023 01:45:34

20 dB Bandwidth Plot on Channel 78

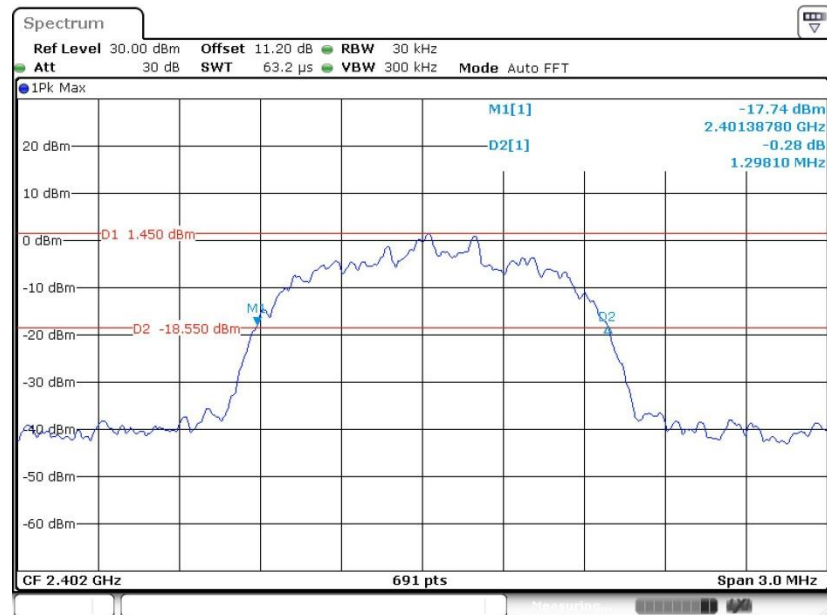


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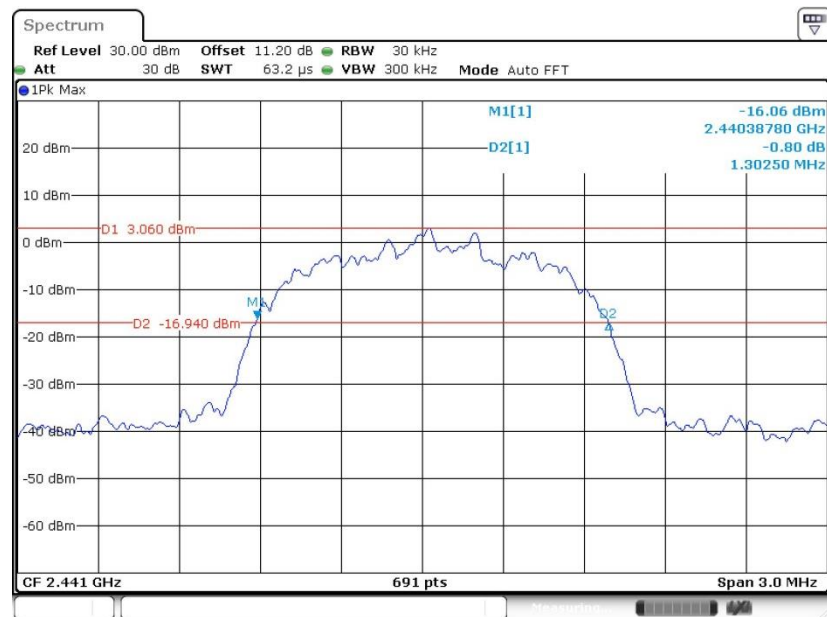
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20 dB Bandwidth Plot on Channel 00



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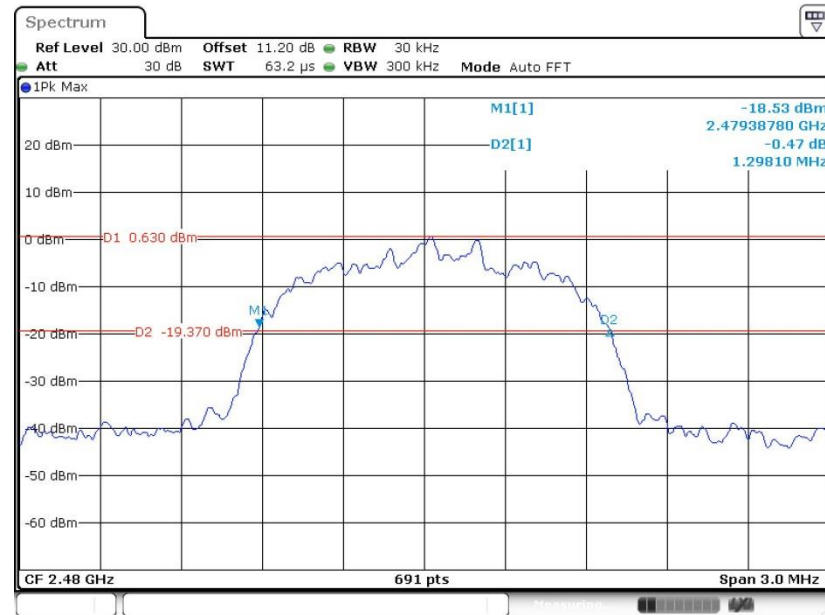
20 dB Bandwidth Plot on Channel 39



Date: 24.MAR.2023 02:10:09



20 dB Bandwidth Plot on Channel 78

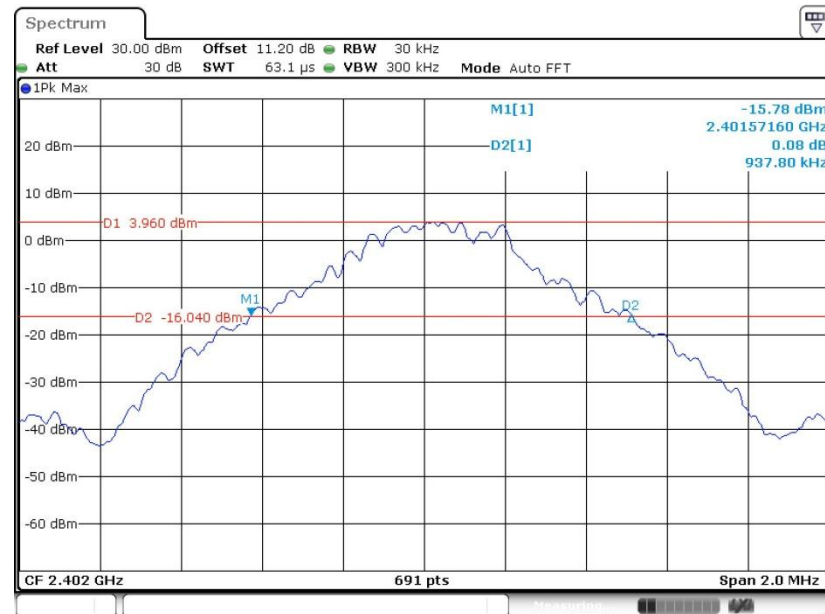


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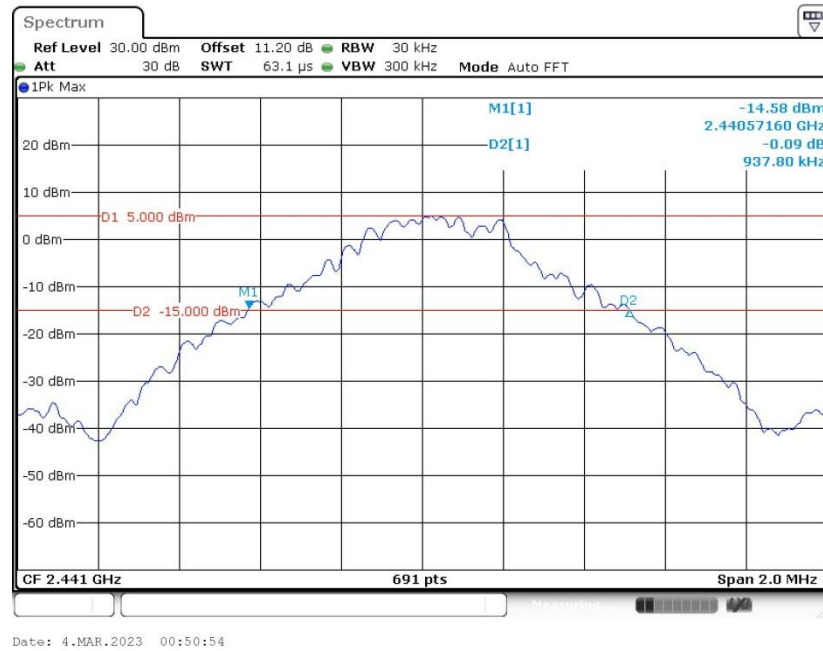
20 dB Bandwidth Plot on Channel 00



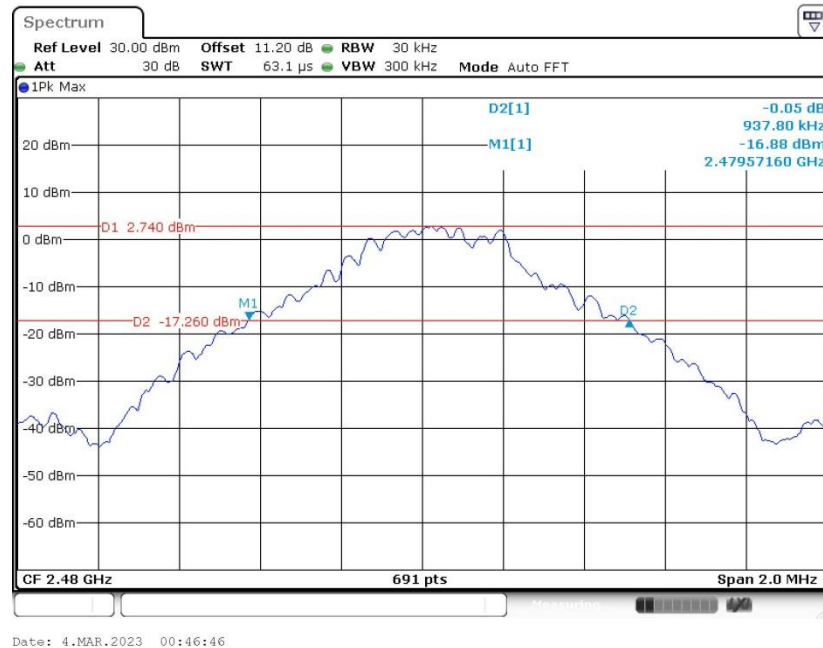
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20 dB Bandwidth Plot on Channel 39



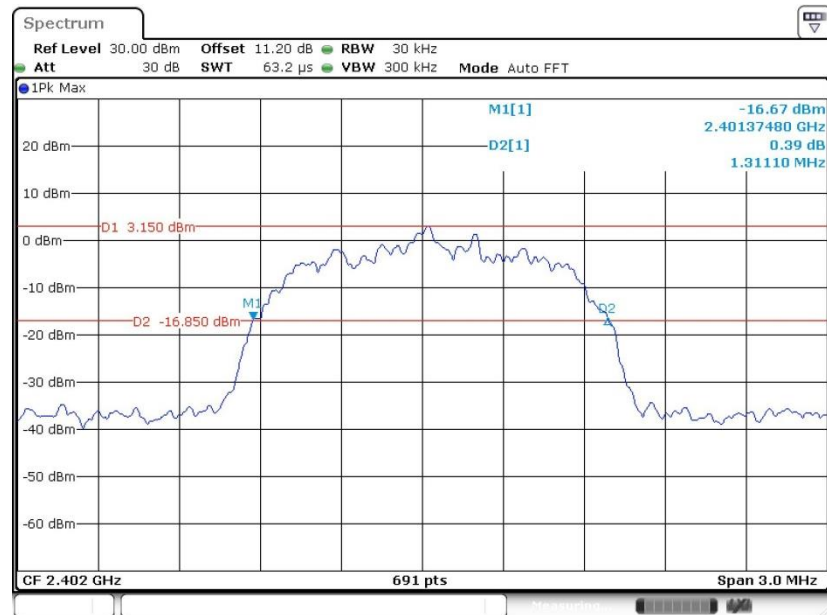
20 dB Bandwidth Plot on Channel 78





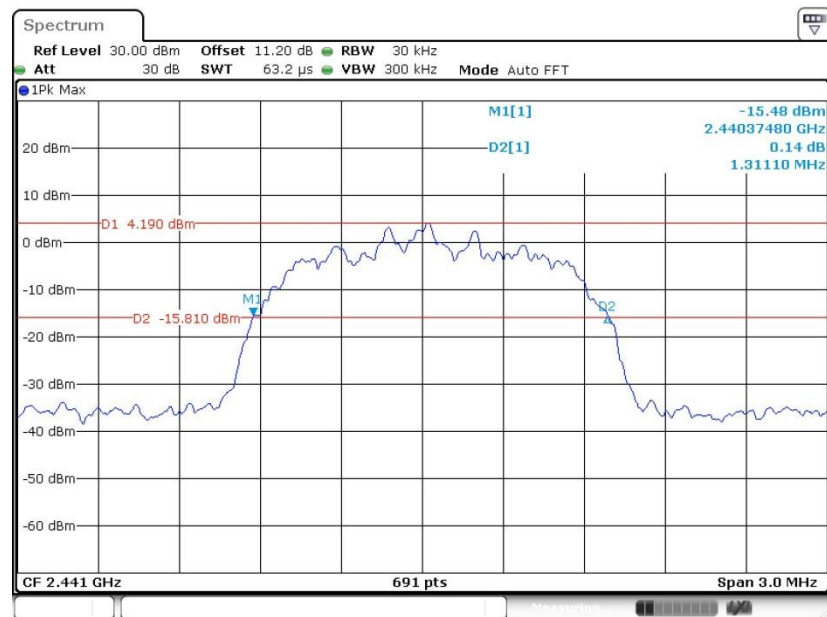
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20 dB Bandwidth Plot on Channel 00



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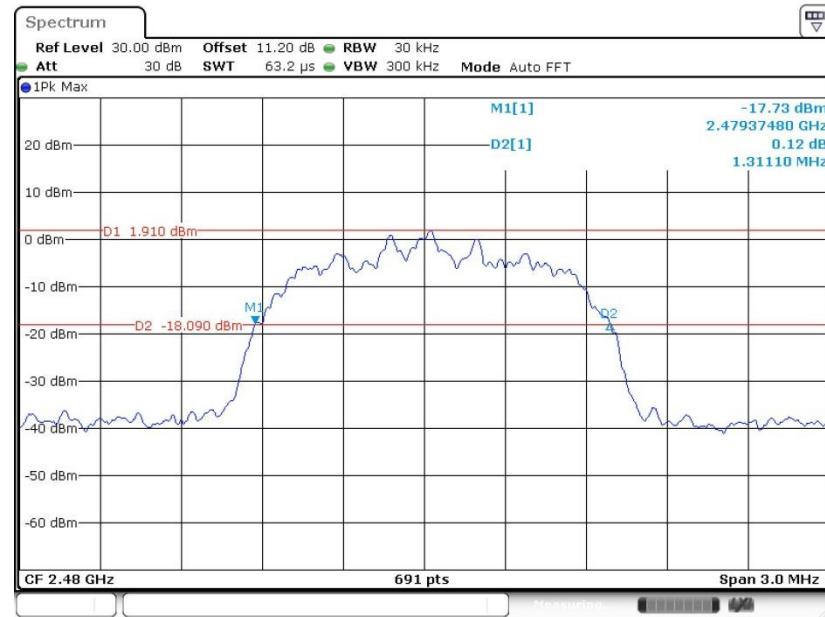
20 dB Bandwidth Plot on Channel 39



Date: 4.MAR.2023 00:58:45



20 dB Bandwidth Plot on Channel 78



Date: 4.MAR.2023 01:06:26

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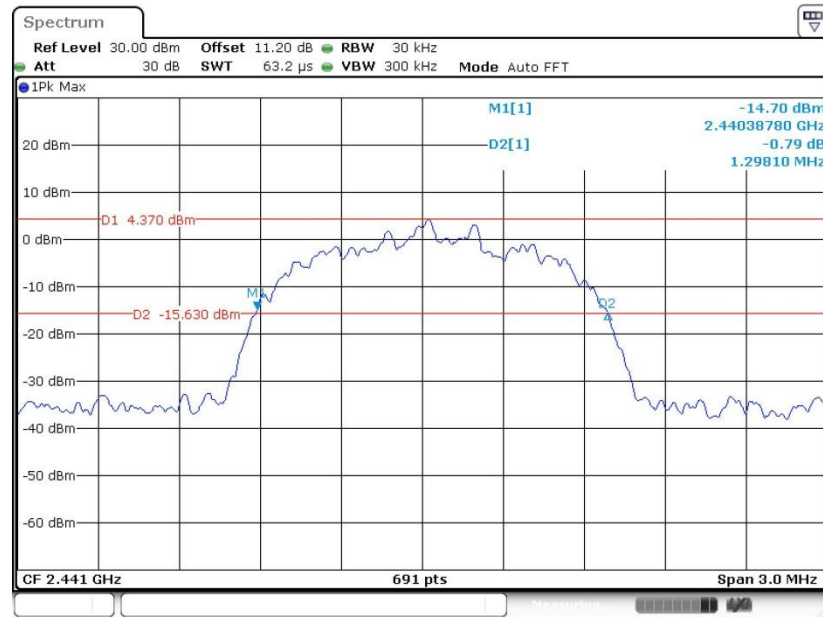
20 dB Bandwidth Plot on Channel 00



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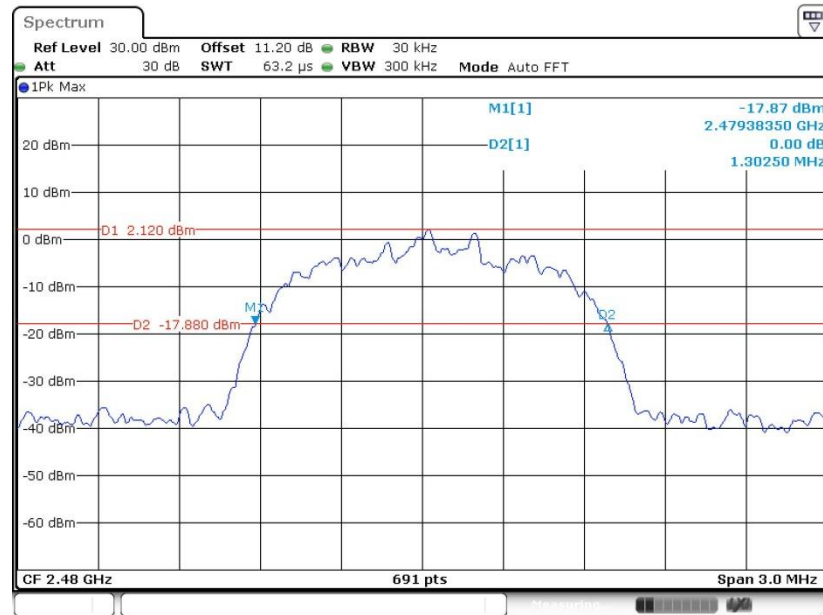


20 dB Bandwidth Plot on Channel 39



Date: 4.MAR.2023 17:16:53

20 dB Bandwidth Plot on Channel 78



Date: 4.MAR.2023 17:29:05



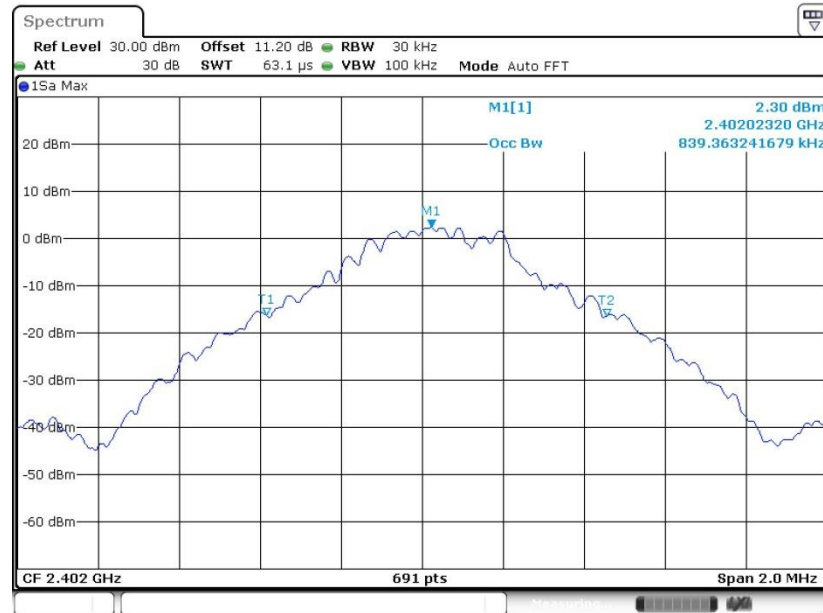
3.4.6 Test Result of 99% Occupied Bandwidth

Please refer to Appendix A.

<Ant5>

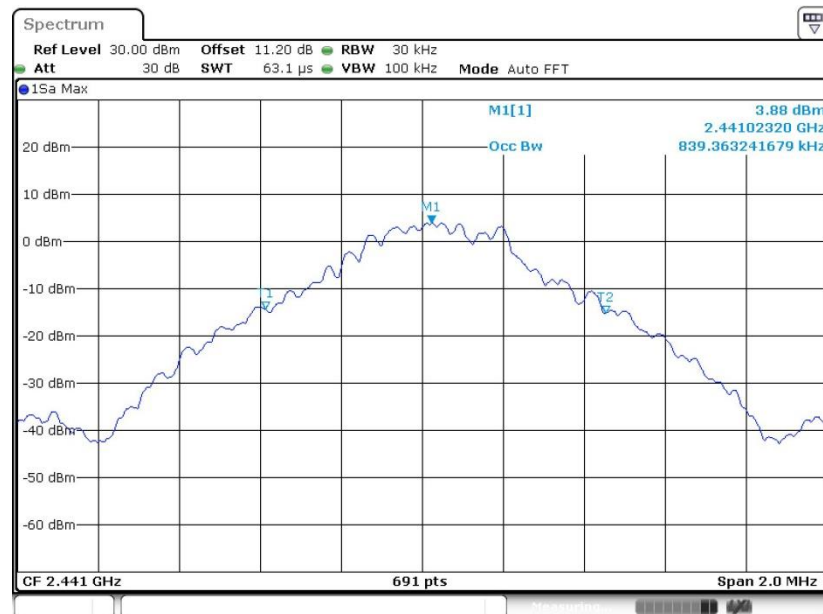
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99% Occupied Bandwidth Plot on Channel 00



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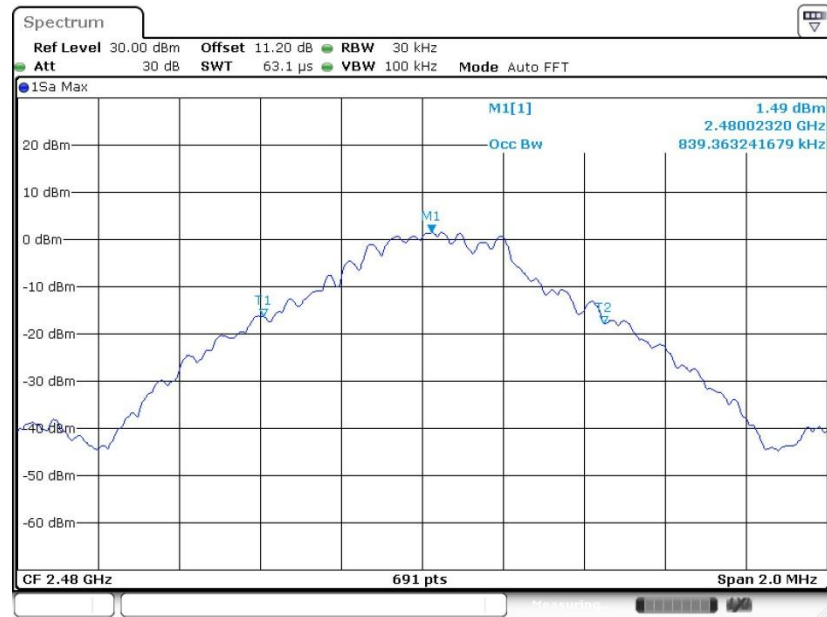
99% Occupied Bandwidth Plot on Channel 39



Date: 24.MAR.2023 01:19:54



99% Occupied Bandwidth Plot on Channel 78



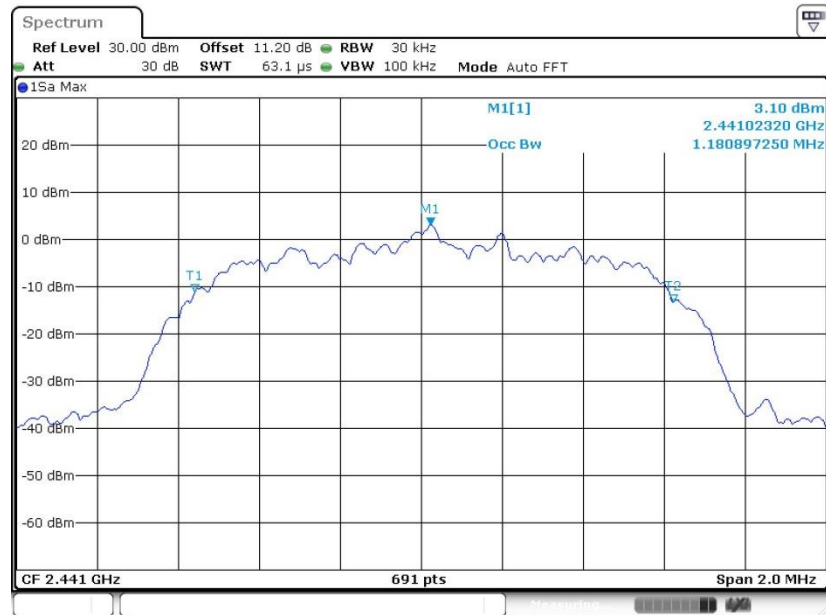
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99% Occupied Bandwidth Plot on Channel 00





99% Occupied Bandwidth Plot on Channel 39



Date: 24.MAR.2023 01:46:10

99% Occupied Bandwidth Plot on Channel 78

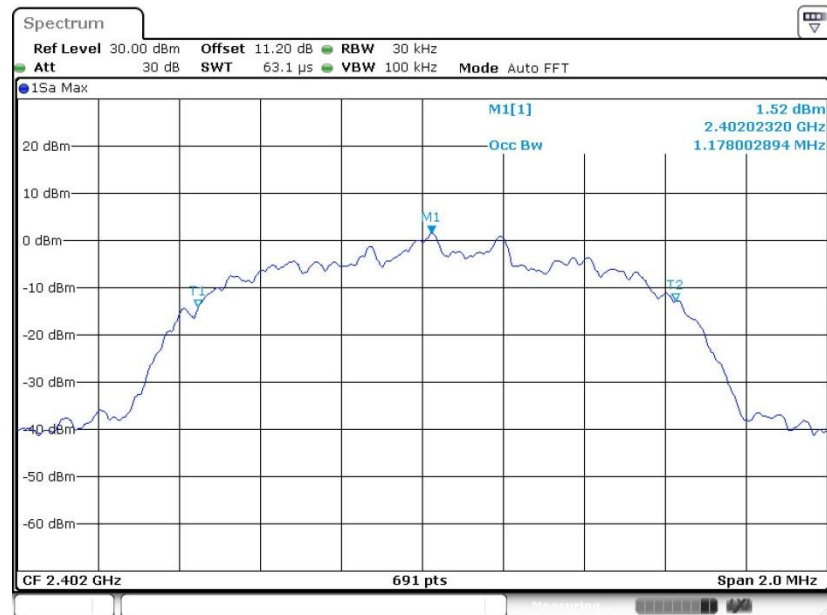


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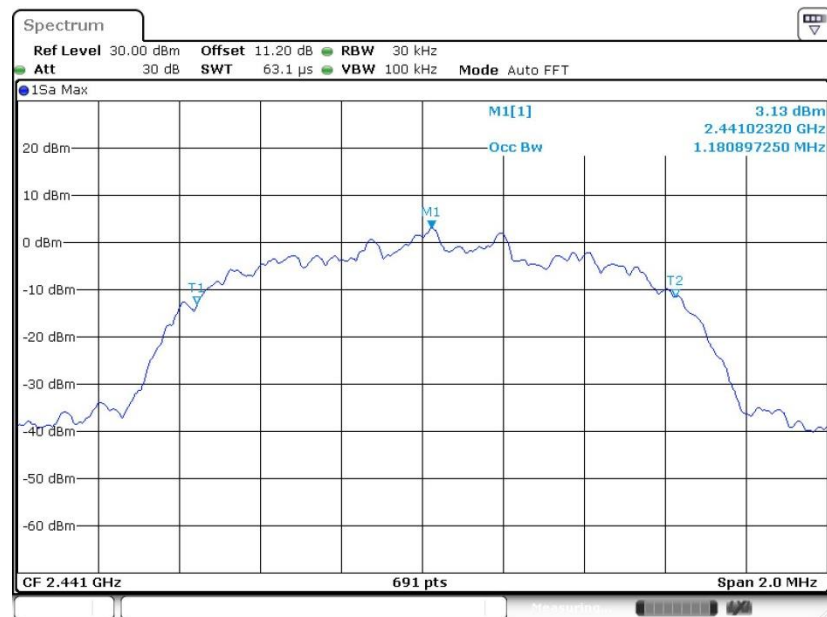
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99% Occupied Bandwidth Plot on Channel 00



Date: 24.MAR.2023 02:05:30

99% Occupied Bandwidth Plot on Channel 39



Date: 24.MAR.2023 02:11:13



99% Occupied Bandwidth Plot on Channel 78



Date: 24.MAR.2023 02:17:21

<Ant6>

<1Mbps>

99% Occupied Bandwidth Plot on Channel 00



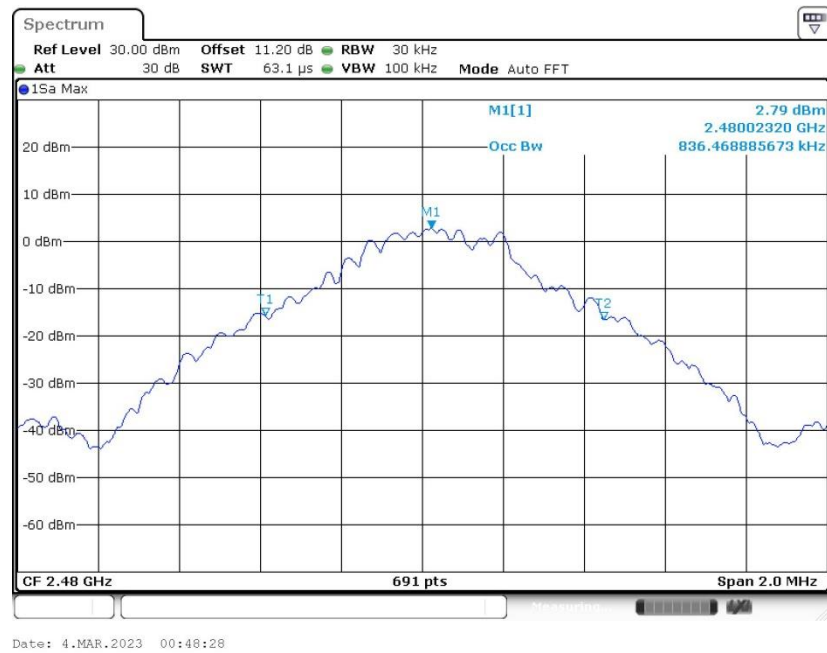
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99% Occupied Bandwidth Plot on Channel 39



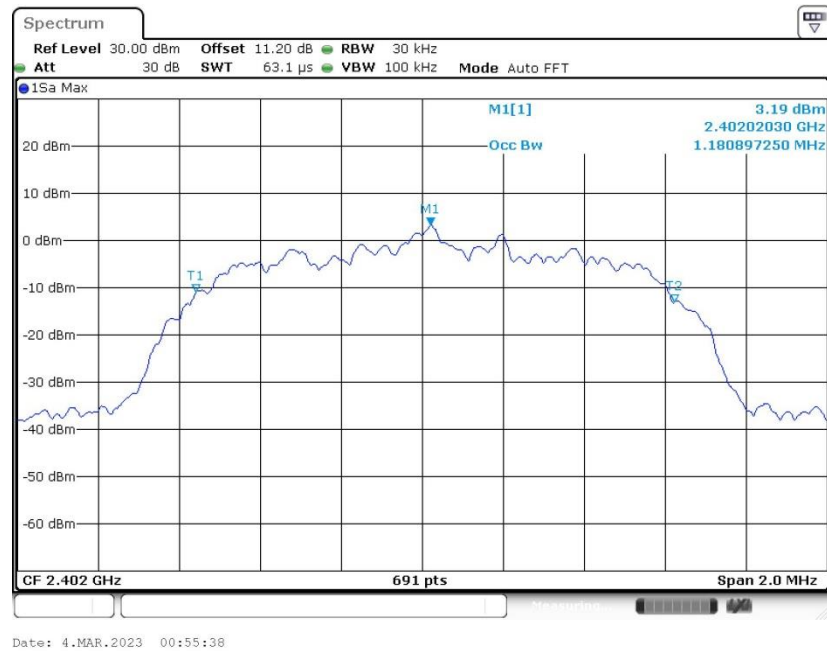
99% Occupied Bandwidth Plot on Channel 78



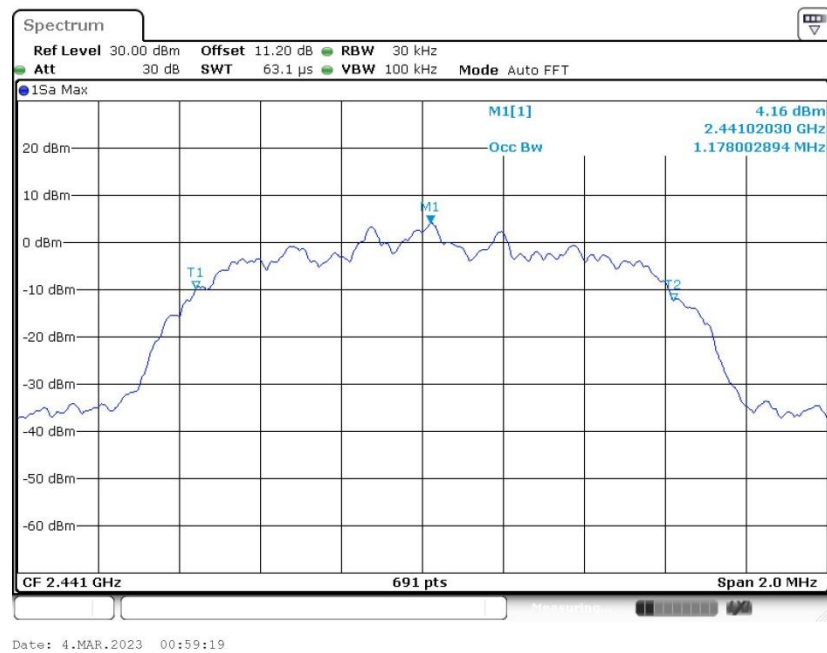


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99% Occupied Bandwidth Plot on Channel 00



99% Occupied Bandwidth Plot on Channel 39





99% Occupied Bandwidth Plot on Channel 78



<3Mbps>

99% Occupied Bandwidth Plot on Channel 00

