

JAPAN SPECIFIED RADIO EQUIPMENT

TEST REPORT

For

SYSTEM TABLET CONTROLLER

Trade Name: OLYMPUS

Model: SC-1

Issued to

ADLINK TECHNOLOGY INC.

9F, No.166, Jian Yi Rd., Zhonghe Dist., New Taipei City, 235 Taiwan

Issued by

Compliance Certification Services Inc.

Wugu Laboratory

No.11, Wugong 6th Rd., Wugu Dist.,

New Taipei City, Taiwan, R.O.C.

Issued Date: July 1, 2020

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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Revision History

Rev.	Issue Date	Revisions	Effect Page	Revised By
00	June 30, 2020	Initial Issue	ALL	Allison Chen
01	July 1, 2020	See the following Note Rev.(01)	P.13	Allison Chen

Rev.(01)

1. Revised BT LE rated/measured antenna power unit to mW.



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1. TEST RESULT CERTIFICATION

Applicant: ADLINK TECHNOLOGY INC.
9F, No.166, Jian Yi Rd., Zhonghe Dist., New Taipei City,
235 Taiwan

Manufacturer: ADLINK TECHNOLOGY INC.
9F, No.166, Jian Yi Rd., Zhonghe Dist., New Taipei City,
235 Taiwan

Equipment Under Test: SYSTEM TABLET CONTROLLER

Trade Name: OLYMPUS

Model Number: SC-1

Detailed EUT Description: See Item 3 of this report

Date of Test: April 10, 2020

EUT Receive Date February 5, 2020

APPLICABLE STANDARDS	
CLASSIFICATION	TEST RESULT
ARIB STD T-66 Ver.3.7	No non-compliance noted
Statements of Conformity	
Determination of compliance is based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.	

The above equipment was tested by Compliance Certification Services Inc. for compliance with the requirements set forth in ARIB STD T-66 Ver.3.7. The results of testing in this report apply only to the product/system, which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

Approved by:

Kevin Tsai
Deputy Manager
Compliance Certification Services Inc.

2. SUMMARY OF TEST RESULTS

2.1 BLUETOOTH (CH0~CH78) (FOR GFSK)

APPLIED STANDARD: ARIB STD T-66 Ver.3.7			
Standard Section	Report Section	Test Type and Limit	Test Result
General provisions			
5	6.1	Frequency Error	PASS
6	6.3	Occupied Bandwidth	PASS
7	6.2	Spurious Emissions Intensity	PASS
Transmitting equipment			
14	2.1	Antenna Power	PASS
14.2	-	SAR	-
Transmitting antenna			
20	3	Type, Configuration, etc., of Transmitting Antenna	PASS
22	-	Direction Pattern of Transmitting Antenna (Provided at Individual Antenna Report)	PASS
Receiving antenna			
24	6.5	Limitation of Collateral Emission of Receiver	PASS
26	3	Refer to All Articles for Transmitting Antenna	PASS
Operating frequency 2400~2483MHz			
49.20(1);a	4.3	RF Shielding Method	PASS
49.20(1);a	3	Communication Method	PASS
49.20(1);b	3	Spread-spectrum Method	PASS
49.20(1);d	-	Absolute Antenna Gain (Provided at Individual Antenna Report)	PASS
49.20(1);e	6.4	Spread-Spectrum Bandwidth	PASS
49.20(1);g	6.6	Hopping Frequency Dwell Time (FH employed)	PASS



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Test Report

Test Date	2020/4/10
Test Location	Compliance Certification Services Inc. No.11, Wugong 6th Rd., Wugu Dist., New Taipei City 24891, Taiwan R.O.C.
Temp. / Humid.	25°C / 55%
Test Conducted By	
Name	Dally.Hong
Department	RF Testing Department

Specified Radio Equipment	Class	Article 2 Paragraph 1 Item 19	Model	SC-1
	Type of Emission	G1D	Serial No.	1
	Modulation Type	FHSS (GFSK)	Antenna Power	0.03[mW/MHz]
	Frequency	2402 ~ 2480 MHz (1MHz separation 79CH)		

2. Test Results

Testing for Electrical Specification	Test Voltage	V								Remarks
	Test Frequency	MHz	2402	2441	2480					
	Measured Frequency	MHz	2402.03470	2441.00870	2480.00430					
	Frequency Error	ppm	14.45	3.56	1.73					±50 ppm within
	Occupied Bandwidth	MHz	78.263							83.5 MHz or below
	Spread-spectrum Bandwidth	MHz	70.854							500 kHz or more
	Spurious Emission Intensity	※ 1 μW/MHz	0.31842	0.30339	0.34674					2.5 uW/MHz or below
		※ 2 μW/MHz	0.35563	0.41591	0.32211					25 uW/MHz or below
		※ 3 μW/MHz	0.35563	0.35727	0.33113					25 uW/MHz or below
		※ 4 μW/MHz	0.85704	0.81846	0.88105					2.5 uW/MHz or below
	Test Frequency			Hopping						
	Antenna Power (EIRP)	dBm/MHz		-15.34363						Antenna Gain : 1.57[dBi], EIRP Limit : 6.91dBm/MHz
	Antenna Power (Conductive)	mW/MHz		0.02035						3 mW/MHz or below
	Antenna Power Error	mW/MHz		-0.00965						
		%		-32.16						+ 20 , - 80 % within
	A-factor	※ 7 A		0.0018						A = EIRP (in mW) / 16.37
		※ 8 degrees		360.00						360/A
	Limitation of Collateral Emission of Receiver	※ 5 nW/100KHz		0.03443						4 nW or below
		※ 6 nW/MHz		1.31522						20 nW or below
	Hopping Frequency Dwell Time	msec		0.28377						0.4 sec or below
	Radio Interference Prevention Function	ID Code	MAC Address (bd 35 9c bd 35 9c)							
		Carrier Sense								

※ 1 : Frequency Band 1 (30MHz ~ less than 2387MHz)

※ 2 : Frequency Band 2 (2387MHz ~ 2400MHz)

※ 3 : Frequency Band 3 (more than 2,483.5MHz ~ 2,496.5GHz)

※ 4 : Frequency Band 4 (2,496.5MHz ~ less than 12.5GHz)

※ 5 : Frequency Band 5 (30MHz ~ 1,000MHz)

※ 6 : Frequency Band 6 (1,000MHz ~ 12.5GHz)

※ 7 :A is equal to EIRP (in mW) / 16.37 .The conducted power is limited to 10 mW.

※ 8 The calculated A is smaller than 1 by definition A becomes 1.



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Test Report (AFH)

					Test Date	2020/4/10
					Test Location	Compliance Certification Services Inc. No.11, Wugong 6th Rd., Wugu Dist., New Taipei City 24891, Taiwan R.O.C.
Specified Radio Equipment	Class	Article 2 Paragraph 1 Item 19	Model	SC-1	Temp. / Humid.	25°C / 55%
	Type of Emission	G1D	Serial No.	1	Test Conducted By	
	Modulation Type	FHSS (GFSK)	Antenna Power	0.09[mW/MHz]	Name	Dally.Hong
	Frequency	AFH (1MHz separation 20CH)			Department	RF Testing Department

2. Test Results

Test Voltage		V								Remarks
Testing for Electrical Specification	Test Frequency	MHz		2441						
	Measured Frequency	MHz								
	Frequency Error	ppm								±50 ppm within
	Occupied Bandwidth	MHz		19.538						83.5 MHz or below
	Spread-spectrum Bandwidth	MHz		18.007						500 kHz or more
	※ 1	μW/MHz								2.5 uW/MHz or below
	※ 2	μW/MHz								25 uW/MHz or below
	※ 3	μW/MHz								25 uW/MHz or below
	※ 4	μW/MHz								2.5 uW/MHz or below
	Antenna Power (EIRP) (AFH)	dBm/MHz		-9.39447						Antenna Gain : 1.57[dBi], EIRP Limit : 6.91dBm/MHz
	Antenna Power (Conductive) (AFH)	mW/MHz		0.08009						3 mW/MHz or below
	Antenna Power Error (AFH)	mW/MHz		-0.00991						
		%		-11.02						+ 20 , - 80 % within
	※ 7	A		0.01						A = EIRP (in mW) / 16.37
	※ 8	degrees		360.00						360/A
Limitation of Collateral Emission of Receiver	※ 5	nW/100KHz								4 nW or below
	※ 6	nW/MHz								20 nW or below
Hopping Frequency Dwell Time (DH5)		sec								0.4 sec or below
Radio Interference Prevention Function		ID Code	MAC Address (bd 35 9c bd 35 9c)							
		Carrier Sense								

※ 1 : Frequency Band 1 (30MHz ~ less than 2387MHz)

※ 4 : Frequency Band 4 (2,496.5MHz ~ less than 12.5GHz)

※ 7 : A is equal to EIRP (in mW) / 16.37 .The conducted power is limited to 10 mW.

※ 2 : Frequency Band 2 (2387MHz ~ 2400MHz)

※ 5 : Frequency Band 5 (30MHz ~ 1,000MHz)

※ 8 The calculated A is smaller than 1 by definition A becomes 1.

※ 3 : Frequency Band 3 (more than 2,483.5MHz ~ 2,496.5GHz)

※ 6 : Frequency Band 6 (1,000MHz ~ 12.5GHz)

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2.2 BLUETOOTH (CH0~CH78) (FOR 8DPSK)

APPLIED STANDARD: ARIB STD T-66 Ver.3.7			
Standard Section	Report Section	Test Type and Limit	Test Result
General provisions			
5	7.1	Frequency Error	PASS
6	7.3	Occupied Bandwidth	PASS
7	7.2	Spurious Emissions Intensity	PASS
Transmitting equipment			
14	2.2	Antenna Power	PASS
14.2	-	SAR	-
Transmitting antenna			
20	3	Type, Configuration, etc., of Transmitting Antenna	PASS
22	-	Direction Pattern of Transmitting Antenna (Provided at Individual Antenna Report)	PASS
Receiving antenna			
24	7.5	Limitation of Collateral Emission of Receiver	PASS
26	3	Refer to All Articles for Transmitting Antenna	PASS
Operating frequency 2400~2483MHz			
49.20(1);a	4.3	RF Shielding Method	PASS
49.20(1);a	3	Communication Method	PASS
49.20(1);b	3	Spread-spectrum Method	PASS
49.20(1);d	-	Absolute Antenna Gain (Provided at Individual Antenna Report)	PASS
49.20(1);e	7.4	Spread-Spectrum Bandwidth	PASS
49.20(1);g	7.6	Hopping Frequency Dwell Time (FH employed)	PASS



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Test Report

Test Date	2020/4/10
Test Location	Compliance Certification Services Inc. No.11, Wugong 6th Rd., Wugu Dist., New Taipei City 24891, Taiwan R.O.C.
Temp. / Humid.	25°C / 55%
Test Conducted By	
Name	Dally.Hong
Department	RF Testing Department

Specified Radio Equipment	Class	Article 2 Paragraph 1 Item 19	Model	SC-1
	Type of Emission	G1D	Serial No.	1
	Modulation Type	FHSS (8DPSK)	Antenna Power	0.03[mW/MHz]
	Frequency	2402 ~ 2480 MHz (1MHz separation 79CH)		

2. Test Results

Testing for Electrical Specification	Test Voltage	V									Remarks
	Test Frequency	MHz	2402	2441	2480						
	Measured Frequency	MHz	2402.00870	2441.00870	2480.00430						
	Frequency Error	ppm	3.62	3.56	1.73						±50 ppm within
	Occupied Bandwidth	MHz	78.263								83.5 MHz or below
	Spread-spectrum Bandwidth	MHz	71.548								500 kHz or more
	Spurious Emission Intensity	※ 1	μW/MHz	0.30903	0.29376	0.28708					2.5 uW/MHz or below
		※ 2	μW/MHz	0.32211	0.36644	0.32434					25 uW/MHz or below
		※ 3	μW/MHz	0.39811	0.35481	0.36224					25 uW/MHz or below
		※ 4	μW/MHz	0.85704	1.11173	0.94406					2.5 uW/MHz or below
	Test Frequency			Hopping							
	Antenna Power (EIRP)	dBm/MHz		-18.22600							Antenna Gain : 1.57[dBi], EIRP Limit : 6.91dBm/MHz
	Antenna Power (Conductive)	mW/MHz		0.01048							3 mW/MHz or below
	Antenna Power Error	mW/MHz		-0.01952							
		%		-65.06							+ 20 , - 80 % within
	A-factor	※ 7	A		0.0009						A = EIRP (in mW) / 16.37
		※ 8	degrees		360.00						360/A
	Limitation of Collateral Emission of Receiver	※ 5	nW/100kHz		0.02350						4 nW or below
		※ 6	nW/MHz		0.99083						20 nW or below
	Hopping Frequency Dwell Time (3DH5)	sec		0.00000							0.4 sec or below
	Radio Interference Prevention Function	ID Code	MAC Address (bd 35 9c bd 35 9c)								
		Carrier Sense									

※ 1 : Frequency Band 1 (30MHz ~ less than 2387MHz)

※ 2 : Frequency Band 2 (2387MHz ~ 2400MHz)

※ 3 : Frequency Band 3 (more than 2,483.5MHz ~ 2,496.5GHz)

※ 4 : Frequency Band 4 (2,496.5MHz ~ less than 12.5GHz)

※ 5 : Frequency Band 5 (30MHz ~ 1,000MHz)

※ 6 : Frequency Band 6 (1,000MHz ~ 12.5GHz)

※ 7 : A is equal to EIRP (in mW) / 16.37 .The conducted power is limited to 10 mW.

※ 8 The calculated A is smaller than 1 by definition A becomes 1.



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Test Report (AFH)

Specified Radio Equipment	Class	Article 2 Paragraph 1 Item 19	Model	SC-1	Test Date	2020/4/10
	Type of Emission	G1D	Serial No.	1	Test Location	Compliance Certification Services Inc. No.11, Wugong 6th Rd., Wugu Dist., New Taipei City 24891, Taiwan R.O.C.
	Modulation Type	FHSS (8DPSK)	Antenna Power	0.09[mW/MHz]	Temp. / Humid.	25°C / 55%
	Frequency	AFH (1MHz separation 20CH)			Test Conducted By	
					Name	Dally.Hong
					Department	RF Testing Department

2. Test Results

Testing for Electrical Specification	Test Voltage	V									Remarks
	Test Frequency	MHz		2441							
	Measured Frequency	MHz									
	Frequency Error	ppm									±50 ppm within
	Occupied Bandwidth	MHz		19.938							83.5 MHz or below
	Spread-spectrum Bandwidth	MHz		18.174							500 kHz or more
	※ 1	μW/MHz									2.5 uW/MHz or below
	※ 2	μW/MHz									25 uW/MHz or below
	※ 3	μW/MHz									25 uW/MHz or below
	※ 4	μW/MHz									2.5 uW/MHz or below
	Antenna Power (EIRP) (AFH)	dBm/MHz		-12.32442							Antenna Gain : 1.57[dBi], EIRP Limit : 6.91dBm/MHz
	Antenna Power (Conductive) (AFH)	mW/MHz		0.04079							3 mW/MHz or below
	Antenna Power Error (AFH)	mW/MHz		-0.04921							
		%		-54.68							+ 20 , - 80 % within
	※ 7	A		0.0036							A = EIRP (in mW) / 16.37
	※ 8	degrees		360.00							360/A
	Limitation of Collateral Emission of Receiver	※ 5 nW/100KHz									4 nW or below
		※ 6 nW/MHz									20 nW or below
	Hopping Frequency Dwell Time (DH5)	sec									0.4 sec or below
	Radio Interference Prevention Function	ID Code	MAC Address (bd 35 9c bd 35 9c)								
		Carrier Sense									

※ 1 : Frequency Band 1 (30MHz ~ less than 2387MHz)

※ 2 : Frequency Band 2 (2387MHz ~ 2400MHz)

※ 3 : Frequency Band 3 (more than 2,483.5MHz ~ 2,496.5GHz)

※ 4 : Frequency Band 4 (2,496.5MHz ~ less than 12.5GHz)

※ 5 : Frequency Band 5 (30MHz ~ 1,000MHz)

※ 6 : Frequency Band 6 (1,000MHz ~ 12.5GHz)

※ 7 :A is equal to EIRP (in mW) / 16.37 .The conducted power is limited to 10 mW.

※ 8 The calculated A is smaller than 1 by definition A becomes 1.

2.3 BLUETOOTH 4.1 (CH0~CH39) (FOR GFSK)

APPLIED STANDARD: ARIB STD T-66 Ver.3.7			
Standard Section	Report Section	Test Type and Limit	Test Result
General provisions			
5	8.1	Frequency Error	PASS
6	8.4	Occupied Bandwidth	PASS
7	8.3	Spurious Emissions Intensity	PASS
Transmitting equipment			
14	2.3	Antenna Power	PASS
14.2	-	SAR	-
Transmitting antenna			
20	3	Type, Configuration, etc., of Transmitting Antenna	PASS
22	-	Direction Pattern of Transmitting Antenna (Provided at Individual Antenna Report)	PASS
Receiving antenna			
24	8.5	Limitation of Collateral Emission of Receiver	PASS
26	3	Refer to All Articles for Transmitting Antenna	PASS
Operating frequency 2400~2483MHz			
49.20(1);a	4.3	RF Shielding Method	PASS
49.20(1);a	3	Communication Method	PASS
49.20(1);b	3	Spread-spectrum Method	PASS
49.20(1);d	-	Absolute Antenna Gain (Provided at Individual Antenna Report)	PASS
49.20(1);e	6.5	Spread-Spectrum Bandwidth	-



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Specified Radio Equipment	Class	Article 2 Paragraph 1 Item 19	Model	SC-1	Test Date	2020/4/10
	Type of Emission	F1D	Serial No.	1	Test Location	Compliance Certification Services Inc. No.11, Wugong 6th Rd., Wugu Dist., New Taipei City 24891, Taiwan R.O.C.
	Modulation Type	GFSK	Antenna Power	0.59[mW]	Temp. / Humid.	25°C / 55%
	Frequency	2402 ~ 2480 MHz			Test Conducted By	
					Name	Dally.Hong
					Department	RF Testing Department

2. Test Results

Testing for Electrical Specification	Test Voltage	V									Remarks
	Test Frequency	MHz	2402.00	2440.00	2480.00						
	Measured Frequency	MHz	2401.97830	2439.97830	2479.97830						
	Frequency Error	ppm	-9.03	-8.89	-8.75						±50 ppm within
	Occupied Bandwidth	MHz	1.33	1.32	1.32						26 MHz or below
	Spurious Emission Intensity	※1 μW/MHz	0.35318	0.32063	0.30479						2.5 uW/MHz or below
		※2 μW/MHz	0.34914	0.35563	0.35237						25 uW/MHz or below
		※3 μW/MHz	0.36983	0.36475	0.35318						25 uW/MHz or below
		※4 μW/MHz	0.97051	1.06170	0.92257						2.5 uW/MHz or below
	Antenna Power (EIRP)	dBm	-1.75000	-1.18000	-0.76000						Antenna Gain = 1.57[dBi]
	Antenna Power (Conductive)	mW	0.46559	0.53088	0.58479						10 mW or below
	Antenna Power Error	mW	-0.12441	-0.05912	-0.00521						
		%	-21.09	-10.02	-0.88						+ 20 , - 80 % within
	A-factor	※7 A	0.04	0.05	0.05						A = EIRP (in mW) / 16.37
		※8 degrees	360	360	360						360/A
	Limitation of Collateral Emission of Receiver	※5 nW/MHz	0.03013								4 nW or below
		※6 nW/MHz	0.90782								20 nW or below
	Hopping Frequency Dwell Time	sec									
	Radio Interference Prevention Function	ID Code	MAC Address (bd 35 9c bd 35 9c)								
		Carrier Sense									

※ 1 : Frequency Band 1 (30MHz ~ less than 2387MHz)

※ 2 : Frequency Band 2 (2387MHz ~ 2400MHz)

※ 3 : Frequency Band 3 (more than 2,483.5MHz ~ 2,496.5GHz)

※ 4 : Frequency Band 4 (2,496.5MHz ~ less than 12.5GHz)

※ 5 : Frequency Band 5 (30MHz ~ 1,000MHz)

※ 6 : Frequency Band 6 (1,000MHz ~ 12.5GHz)

※ 7 :A is equal to EIRP (in mW) / 16.37 .The conducted power is limited to 10 mW.

※ 8 The calculated A is smaller than 1 by definition A becomes 1.

3 EUT DESCRIPTION

Product Name	SYSTEM TABLET CONTROLLER		
Model Number	SC-1		
Trade Name	OLYMPUS		
Power Supply	EUT Power from Adapter. FSP GROUP INC. / FSP065M-DBA I/P: 100-240Vac, 2.0-1.0A, 50-60Hz O/P: 19.0Vdc, 3.43A Max		
Model Discrepancy	N/A		
Frequency Range	Bluetooth: 2402~2480MHz		
Rated Antenna Power	Bluetooth 2.0 for GFSK(Normal):	0.03	mW/MHz
	Bluetooth 2.0 for GFSK(AFH):	0.09	mW/MHz
	Bluetooth 2.0 for 8DPSK(Normal):	0.03	mW/MHz
	Bluetooth 2.0 for 8DPSK(AFH):	0.09	mW/MHz
	Bluetooth 4.1:	0.59	mW
Measured Antenna Power	Bluetooth 2.0 for GFSK(Normal):	0.02035	mW/MHz
	Bluetooth 2.0 for GFSK(AFH):	0.08009	mW/MHz
	Bluetooth 2.0 for 8DPSK(Normal):	0.01048	mW/MHz
	Bluetooth 2.0 for 8DPSK(AFH):	0.04079	mW/MHz
	Bluetooth 4.1:	0.58479	mW
Modulation Technique	Bluetooth: FHSS (GFSK , $\pi/4$ -DQPSK , 8DPSK) Bluetooth 4.1: GFSK		
Number of Channels	Bluetooth (CH0~78): 79 channels Bluetooth 4.1(CH0~39): 40 channels		
Antenna Specification	PCB Antenna / 1.57 dBi		
Hardware Version	A2		
Software Version	7.2		

Remark: for more details, please refer to the User's manual of the EUT.

4 TEST METHODOLOGY & CONDITIONS

4.1 TEST CONDITIONS

Voltage Fluctuation Test	Normal Voltage	High Voltage + 10% of Normal Voltage	Low Voltage - 10% of Normal Voltage
Input DC Power	100	110	90
Output DC Power	3.3	3.29	3.3
Voltage Variation (%)	-	-0.303030	0.000000

Voltage Variation (%) = (Output High or Low Voltage - Output Normal Voltage) / Output Normal Voltage * 100

During the input supply voltage to the EUT from the external power source is varied by +/- 10%, if output voltage had been confirmed that the fluctuation of power supply to the RF circuit of EUT (excluding power source) is equal to or less than +/- 1%. Exempt extremely high and low supply voltage condition tests, EUT only operated in normal voltage to test all regulations.

4.2 DESCRIPTION OF TEST MODES

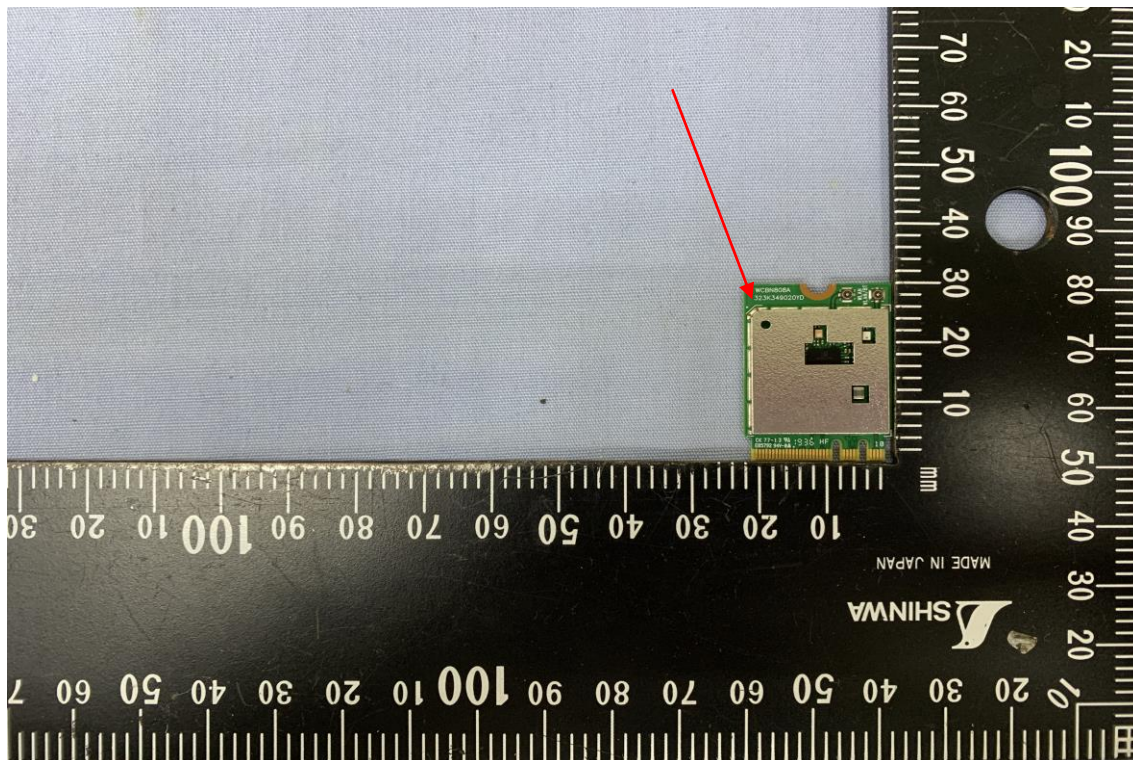
The EUT (model: SC-1) had been tested under operating condition.

Software used to control the EUT for staying in continuous transmitting and receiving mode is programmed.

Bluetooth BLE: Measurement was conducted by the following test method.

4.3 RF SHIELDING METHOD

The RF part is not easily accessible because the EUT is using a shielding case as below.



4.4 SETUP OF EQUIPMENT UNDER TEST

Setup Diagram

See test photographs attached in Appendix 1 for the actual connections between EUT and support equipment.

Support Equipment

No	Equipment	Trade Name	Model	Serial No.	FCC ID	Data Cable	Power Cord
	N/A						

5 INSTRUMENT AND CALIBRATION

5.1 MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated once a year or in accordance with the manufacturer's recommendations, and is traceable to recognized national standards.

5.2 TEST AND MEASUREMENT EQUIPMENT

The following list contains measurement equipment used for testing. The equipment conforms to the requirement of CISPR 16-1, ANSI C63.2 and other equivalent standards.

Calibration of all test and measurement, including any accessories that may effect such calibration, is checked frequently to ensure the accuracy. Adjustments are made and correction factors are applied in accordance with the instructions contained in the respective manual.

Equipment Used for Emission Measurement

Remark: Each piece of equipment is scheduled for calibration once a year.

Conducted Emission Test Site							
Name of Equipment	Manufacturer	Model	Serial Number	Cal Date	Cal Due	Calibration Lab.	Accreditation Organization of the Cal. Lab
Coaxial Cable	Woken	WC12	CC003	06/28/2019	06/27/2020	ETC	TAF
Power Meter	Anritsu	ML2487A	6K00003260	05/22/2019	05/21/2020	ETC	TAF
Power Seneor	Anritsu	MA2490A	032910	05/22/2019	05/21/2020	ETC	TAF
S.G.	Agilent	E8257C	US42340383	07/15/2019	07/14/2020	ETC	TAF
Signal Analyzer	R&S	FSV 40	101073	09/25/2019	09/24/2020	ETC	TAF
AC Power Source	APE	AFC-150	991259	N.C.R.	N.C.R.	ETC	TAF

5.3 MEASUREMENT UNCERTAINTY

For the test methods, according to the present document, the measurement uncertainty figures shall be calculated in accordance with TR 100 028-1 [2] and shall correspond to an expansion factor (coverage factor) $k = 1,96$ or $k = 2$ (which provide confidence levels of respectively 95 % and 95,45 % in the case where the distributions characterizing the actual measurement uncertainties are normal (Gaussian)).

Table 6 is based on such expansion factors.

Table: Maximum measurement uncertainty

Parameter	Uncertainty
RF frequency	$\pm 1 \times 10^{-5}$
Total RF power conducted	$\pm 1,5$ dB
RF power density, conducted	± 3 dB
Spurious emissions, conducted	± 3 dB
All emissions, radiated	± 6 dB
Humidity	± 5 %
Temperature	$\pm 1^{\circ}\text{C}$
DC and low frequency voltages	$\pm 3\%$

PARAMETER	UNCERTAINTY
Frequency Error	226Hz
Antenna Power	1.906 dB
Spurious Emission	0.182 dB
Occupied Bandwidth	0.178 kHz
Dwell Time	0.054 ms

5.4 CALIBRATION

(1) Spectrum Analyser and Power Meter

Signal Generator (dBm)	Spectrum Analyser (dBm)	Power Meter (dBm)	Remark
0	-0.81	-0.20	<ul style="list-style-type: none"> • Frequency : 2450MHz • ATT : 10dB • RLV: 0dBm • RBW, VBW : 1MHz • SP: 0Hz
-5	-5.81	-5.39	
-10	-10.75	-10.53	

Remark: For FHSS, connect SG to SA with cable and 10dB external attenuator. Connect SG to power meter with cable and 10dB external attenuator.

(2) Spectrum Analyser

Signal Generator (dBm)	Spectrum Analyser (MHz)	Tolerance (Hz)	Remark
2,450.00	2,450.000580	580	<ul style="list-style-type: none"> • SG: -10dBm • RBW, VBW : 10kHz, SP: 100kHz

1.2 Cable Factor Measurement

Signal Generator (dBm)	Direct Power Meter (dBm)	Cable + Att Power Meter (dBm)	Cable Factor (dB)	Remark
1,000.00	0.21	-10.16	10.37	• SG: 0dBm
2,450.00	-0.20	-10.81	10.61	
5,250.00	-0.51	-11.43	10.92	
12,500.00	-2.64	-13.61	10.97	

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6 TEST RESULT FOR BLUETOOTH (CH0~CH78) (FOR GFSK)

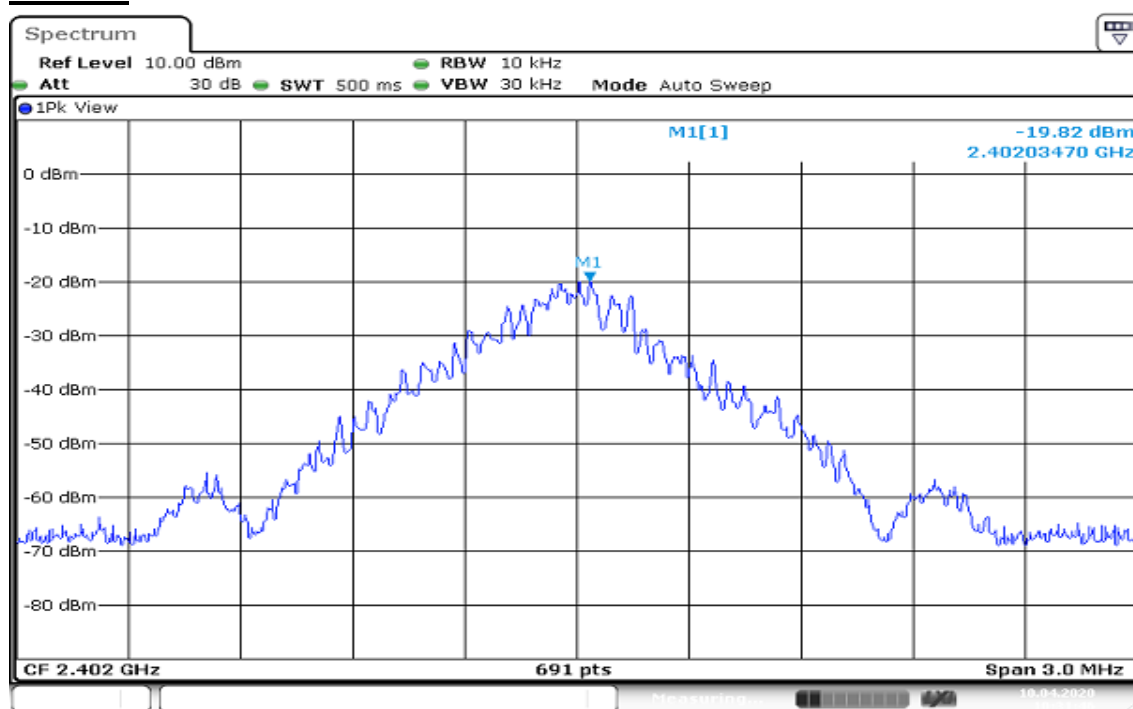
6.1 FREQUENCY ERROR

TEST RESULT

	Frequency (MHz)	Reading (MHz)	Deviation (Hz)	Tolerance (ppm)	Remark
	2402.0000	2402.034700	34700	14.4463	Normal Voltage
	2441.0000	2441.008700	8700	3.5641	
	2480.0000	2480.004300	4300	1.7339	

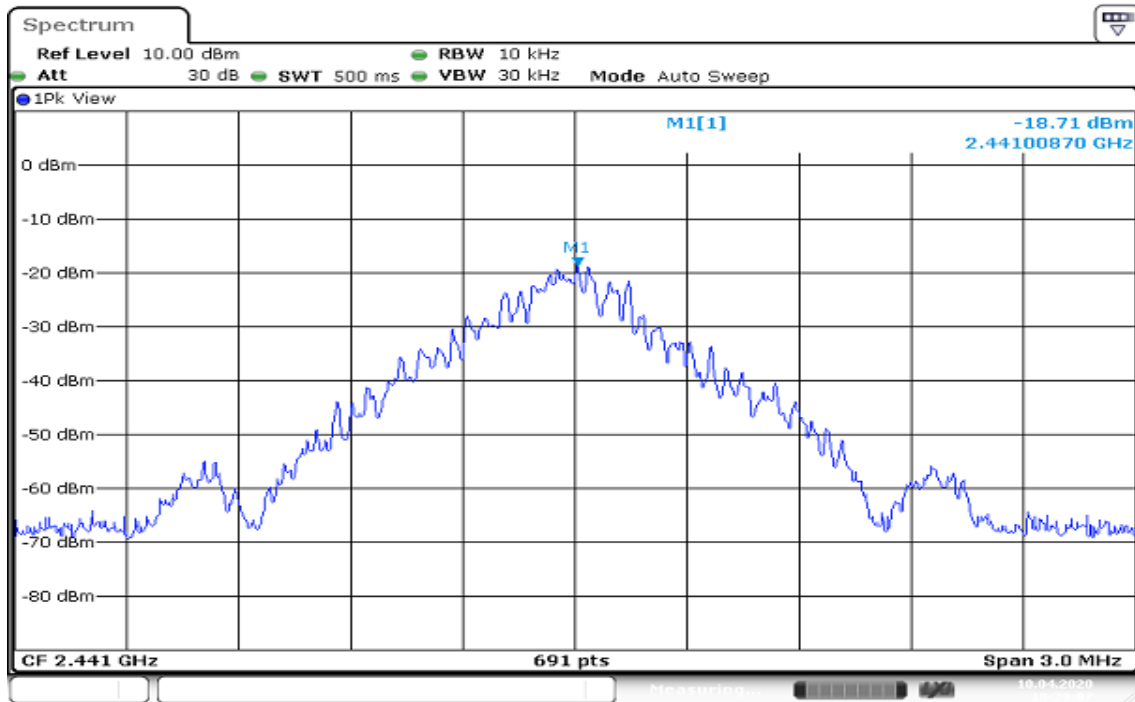
TEST PLOTS

CH Low

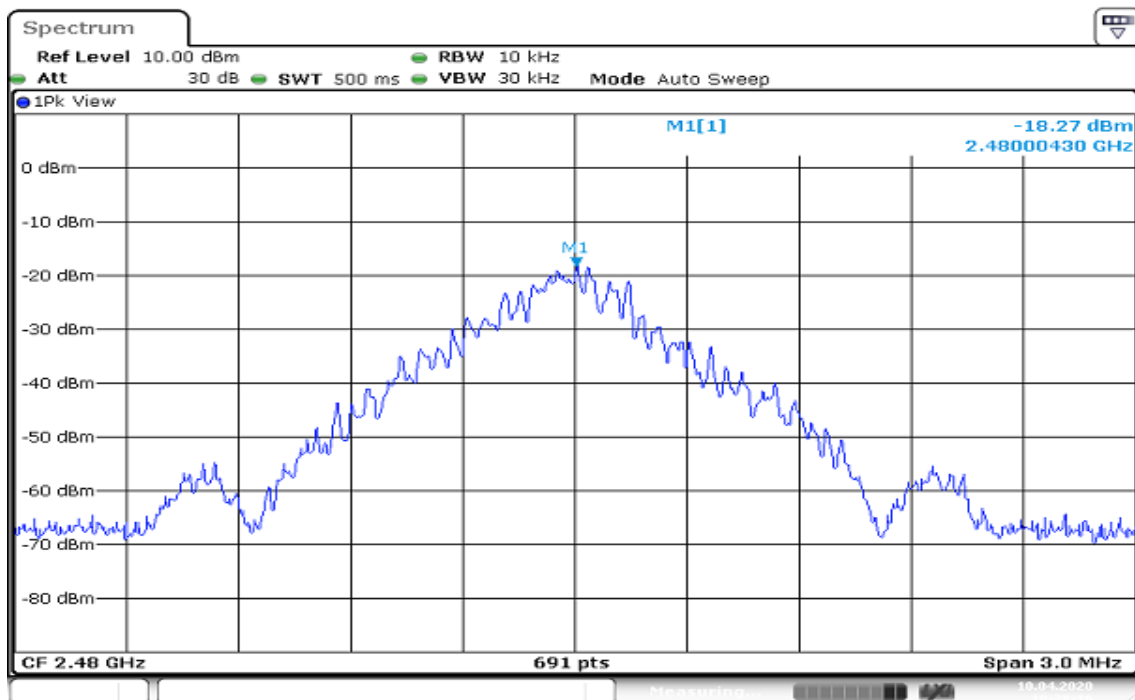


Date: 10.APR.2020 10:31:47

CH Mid



CH High





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6.2 ANTENNA POWER

NORMAL

Frequency (MHz)	Spectrum Analyser (dBm/MHz)	Cable Factor (dB)	Output Power (mW/MHz)	EIRP Power (dBm/MHz)	Remark
					Normal Voltage
Hopping	-9.02	10.61	0.02035	-15.34363	

AFH

Frequency (MHz)	Spectrum Analyser (dBm/MHz)	Cable Factor (dB)	Output Power (mW/MHz)	EIRP Power (dBm/MHz)	Remark
					Normal Voltage
Hopping	-9.02	10.61	0.08009	-9.39447	



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6.3 SPURIOUS EMISSIONS INTENSITY

TEST RESULT

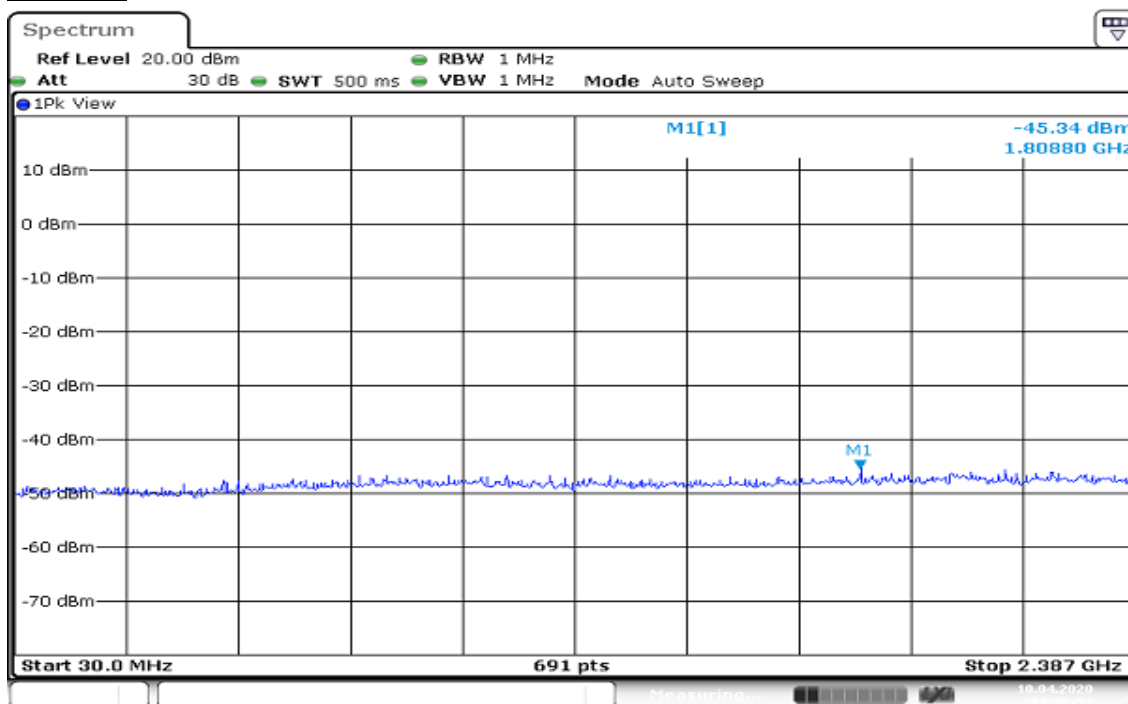
30MHz ~ 2387MHz

(1) Spurious Emission Intensity : 30MHz~less than 2,387MHz

Frequency (MHz)	Reading (MHz)	Reading (dBm)	Cable Factor (dB)	Result (μW/MHz)	Remark
2402.0000	1808.8000	-45.34	10.37	0.31842	Normal Voltage
2441.0000	2105.6000	-45.55	10.37	0.30339	
2480.0000	1788.4000	-44.97	10.37	0.34674	

TEST PLOTS

CH Low



Date: 10.APR.2020 09:30:52

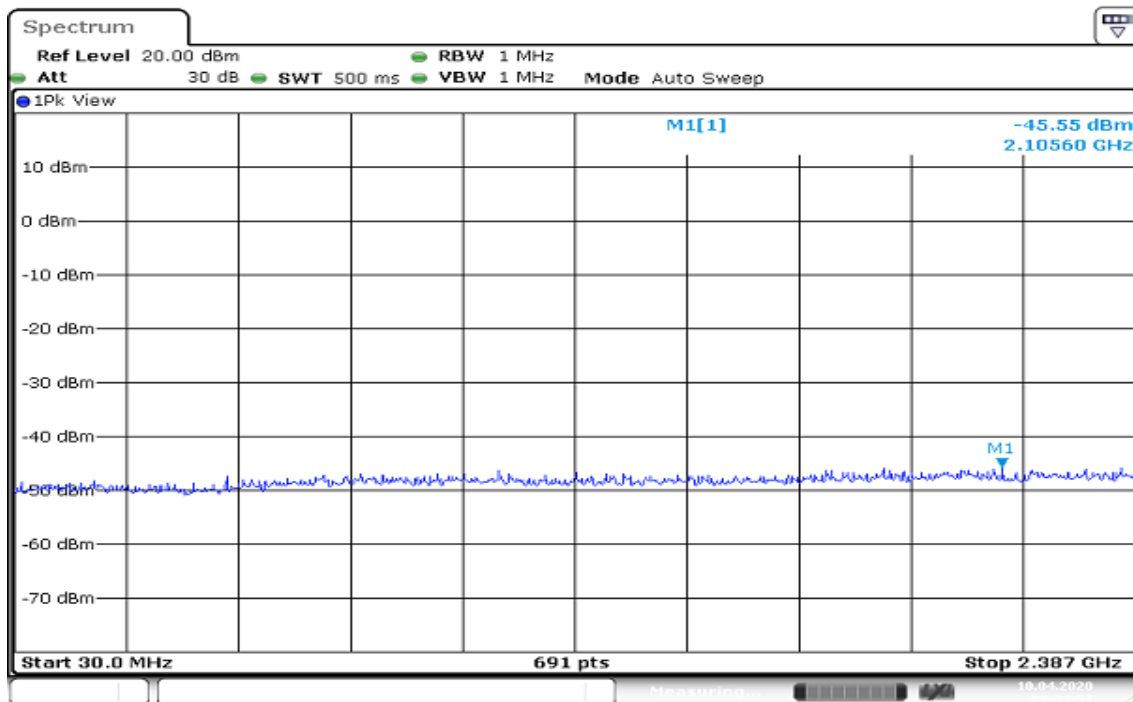


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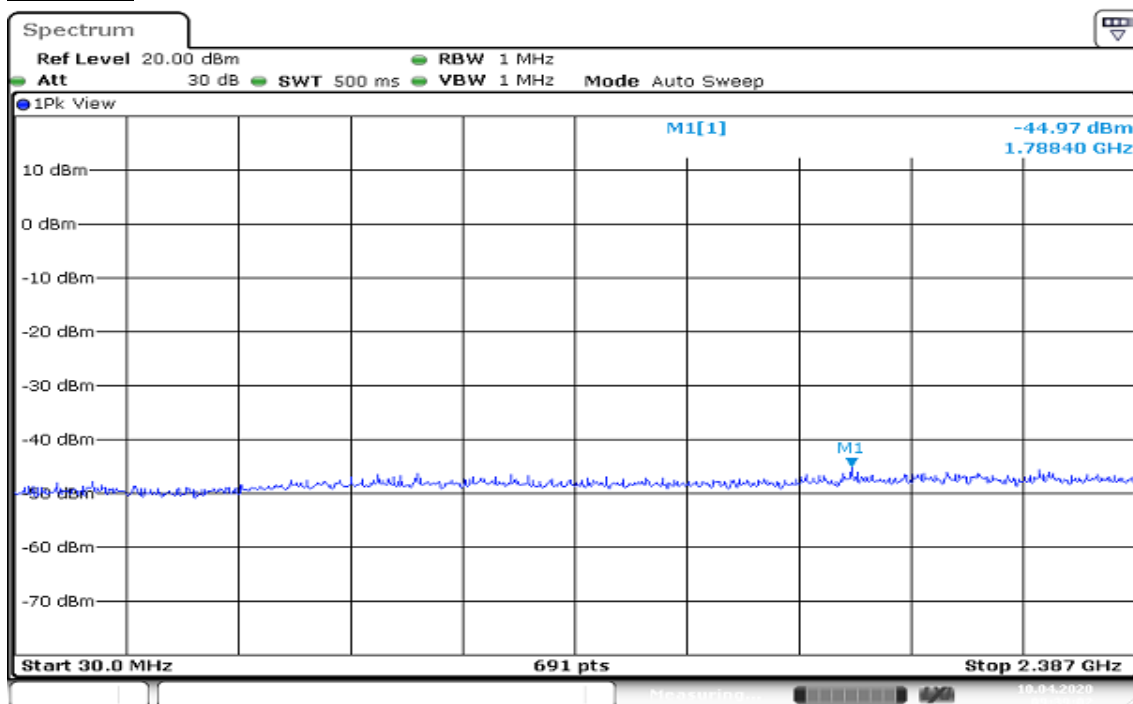
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CH Mid



CH High





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TEST RESULT

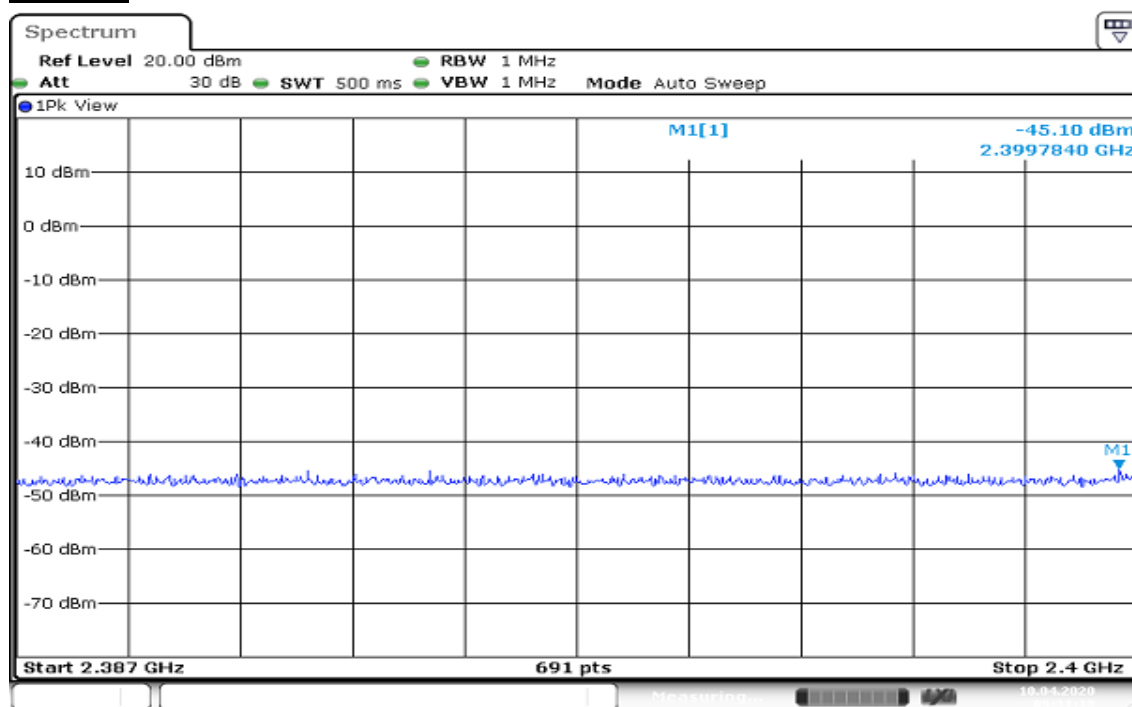
2387MHz ~ 2400MHz

(2) Spurious Emission Intensity : 2,387MHz~less than 2,400MHz

Frequency (MHz)	Reading (MHz)	Reading (dBm)	Cable Factor (dB)	Result (μW/MHz)	Remark
2402.0000	2399.7840	-45.10	10.61	0.35563	Normal Voltage
2441.0000	2387.5930	-44.42	10.61	0.41591	
2480.0000	2399.9720	-45.53	10.61	0.32211	

TEST PLOTS

CH Low



Date: 10.APR.2020 09:31:19

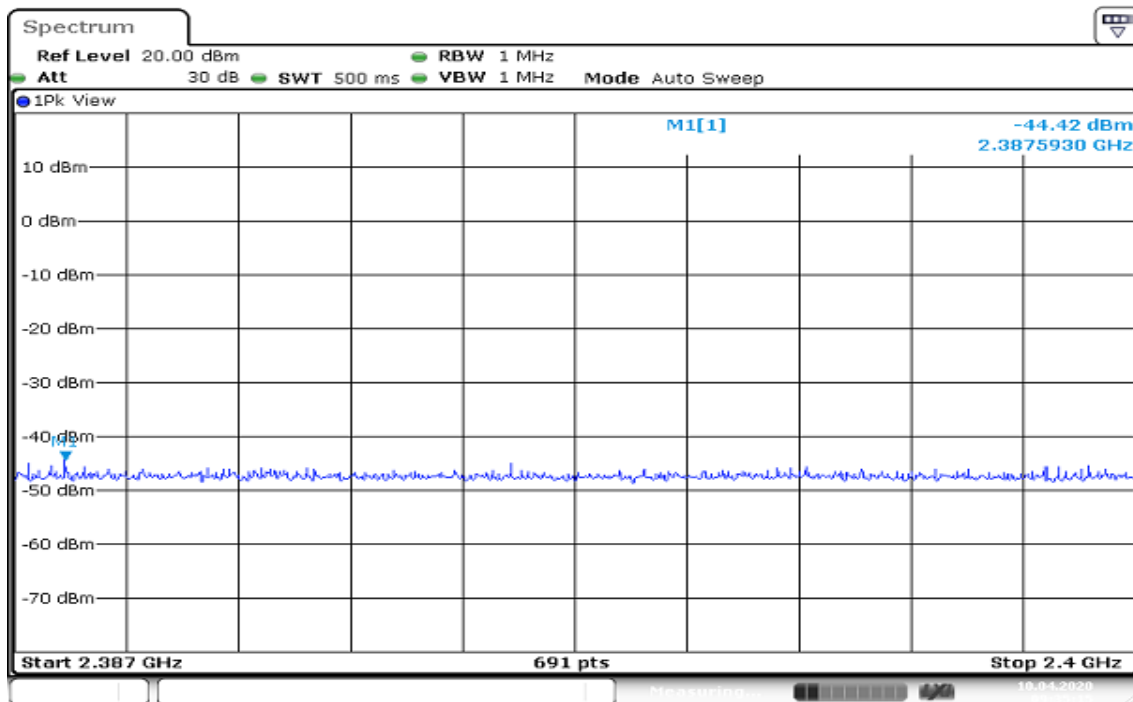


Report No.: T200205D04-RJ2

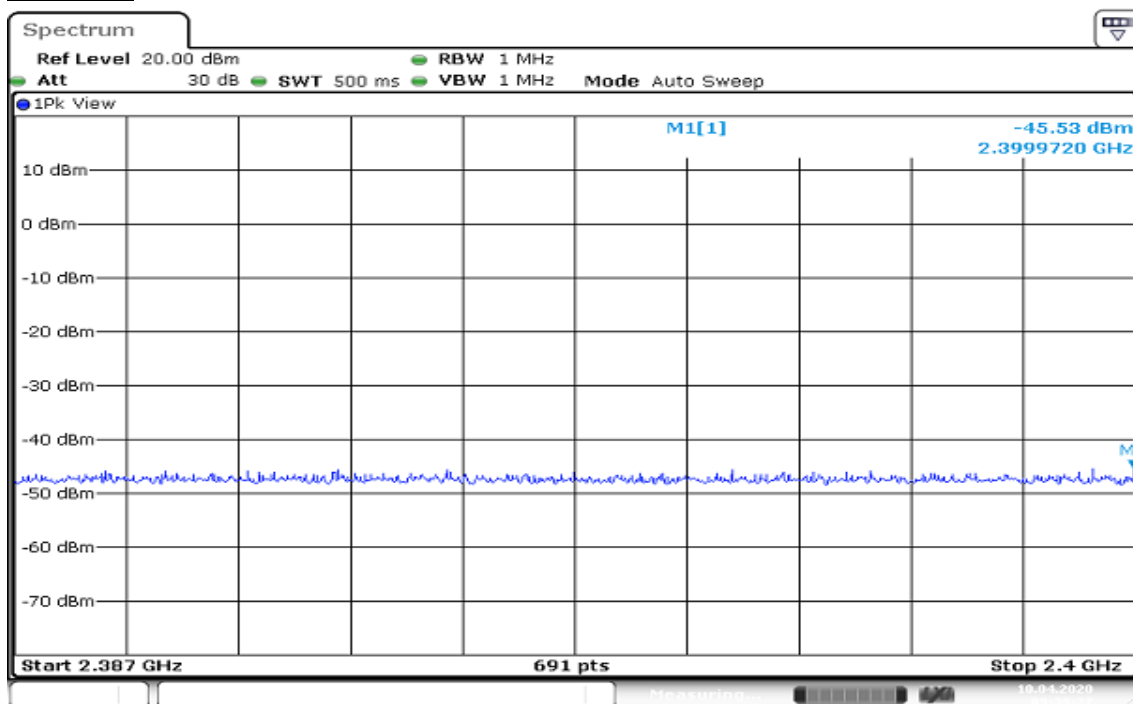
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CH Mid



CH High





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TEST RESULT

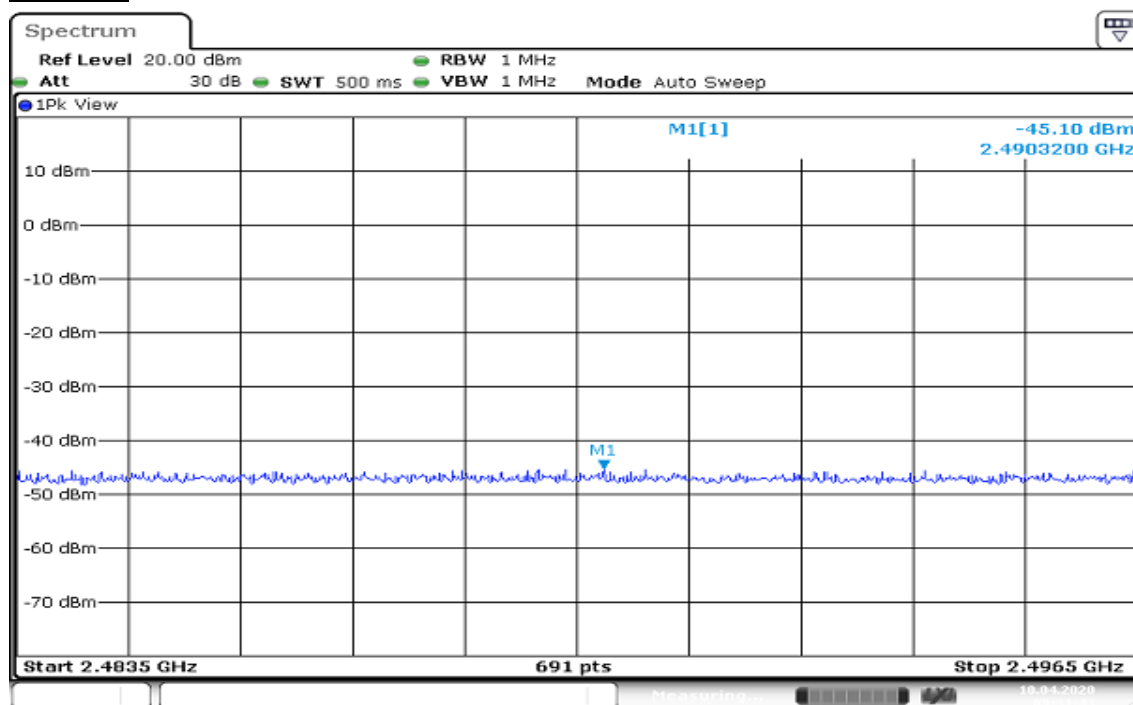
2483.5MHz ~ 2496.5MHz

(3) Spurious Emission Intensity : 2,483.5MHz~2,496.5MHz

Frequency (MHz)	Reading (MHz)	Reading (dBm)	Cable Factor (dB)	Result (μW/MHz)	Remark
2402.0000	2490.3200	-45.10	10.61	0.35563	Normal Voltage
2441.0000	2496.3970	-45.08	10.61	0.35727	
2480.0000	2494.8350	-45.41	10.61	0.33113	

TEST PLOTS

CH Low



Date: 10.APR.2020 09:31:43

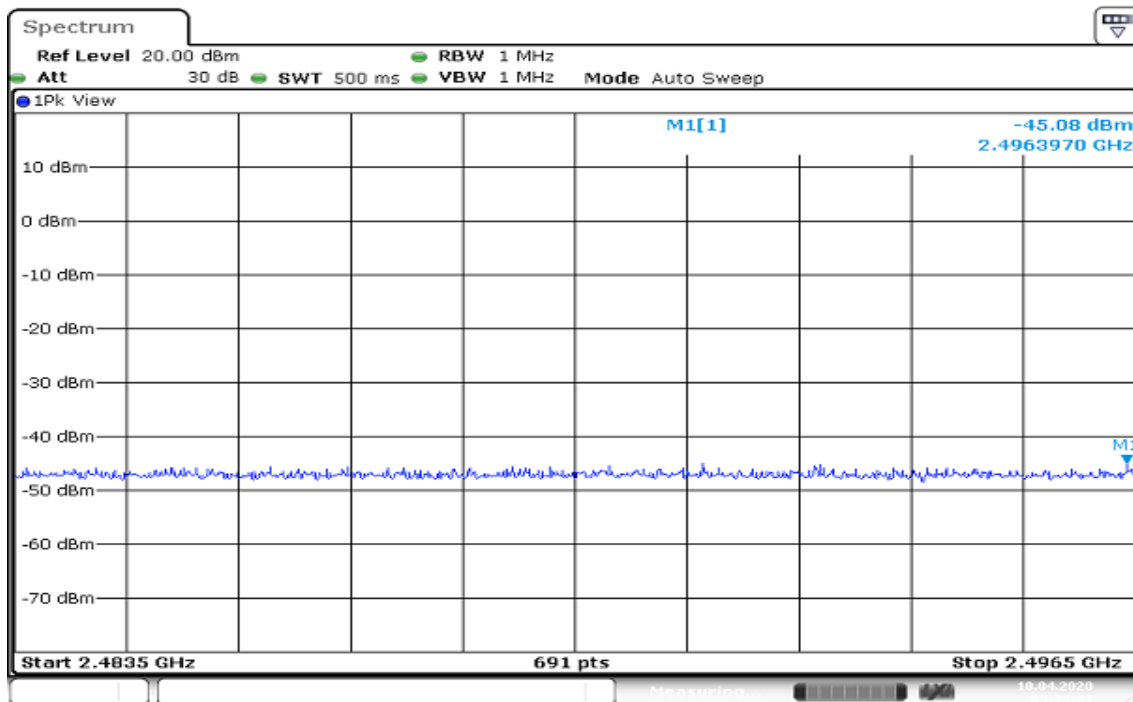


Report No.: T200205D04-RJ2

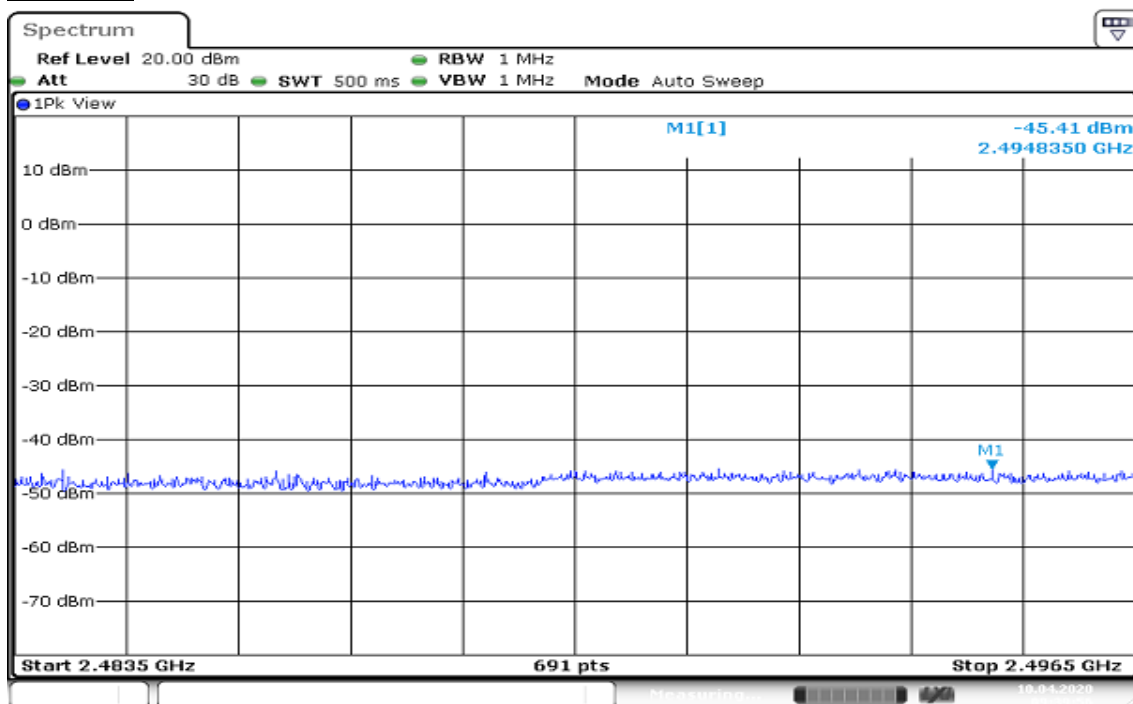
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CH Mid



CH High



TEST RESULT

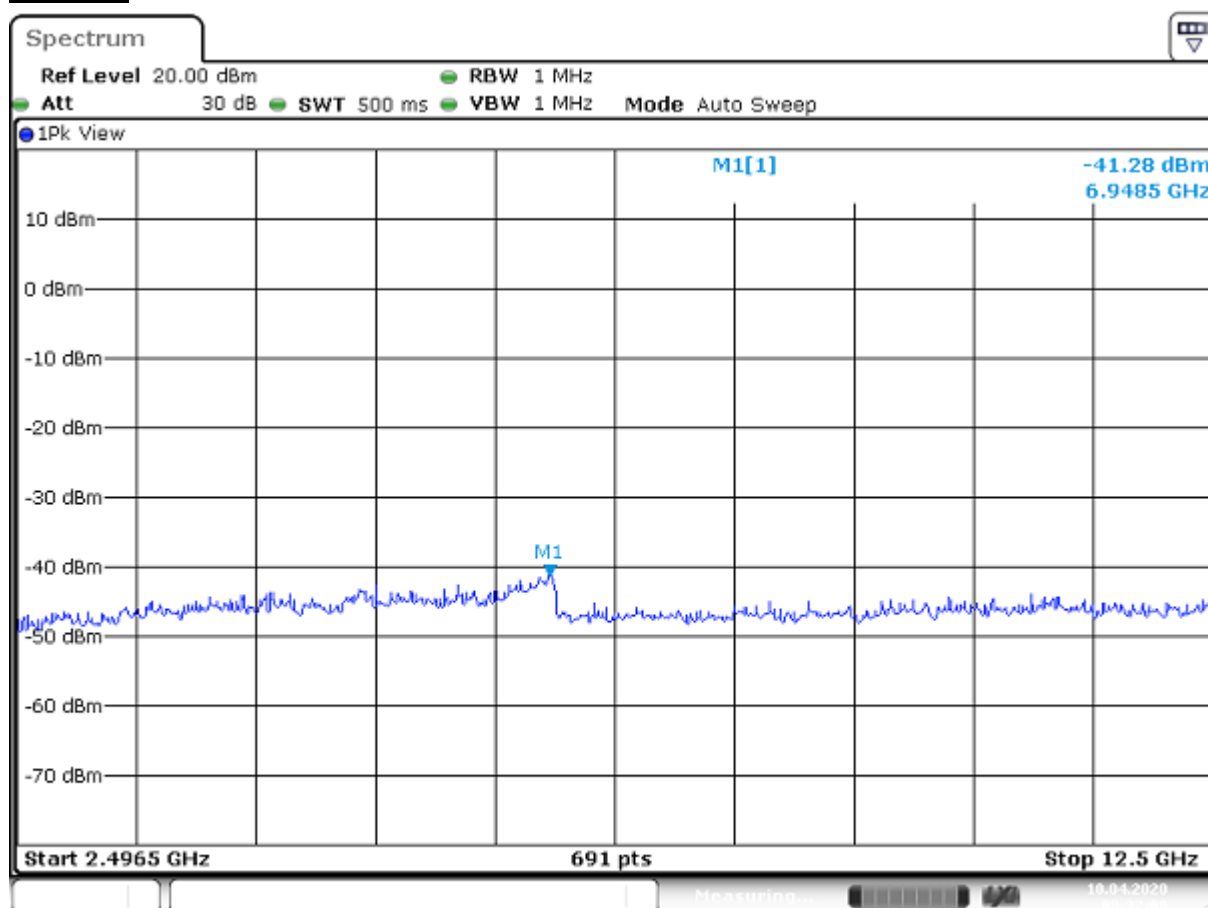
2496.5MHz~12.5GHz

(4) Spurious Emission Intensity : more than 2,496.5MHz~12.5GHz

Frequency (MHz)	Reading (MHz)	Reading (dBm)	Cable Factor (dB)	Result (μ W/MHz)	Remark
2402.0000	6948.5000	-41.28	10.61	0.85704	Normal Voltage
2441.0000	6948.5000	-41.48	10.61	0.81846	
2480.0000	6919.5000	-41.16	10.61	0.88105	

TEST PLOTS

CH Low



Date: 10.APR.2020 09:32:09

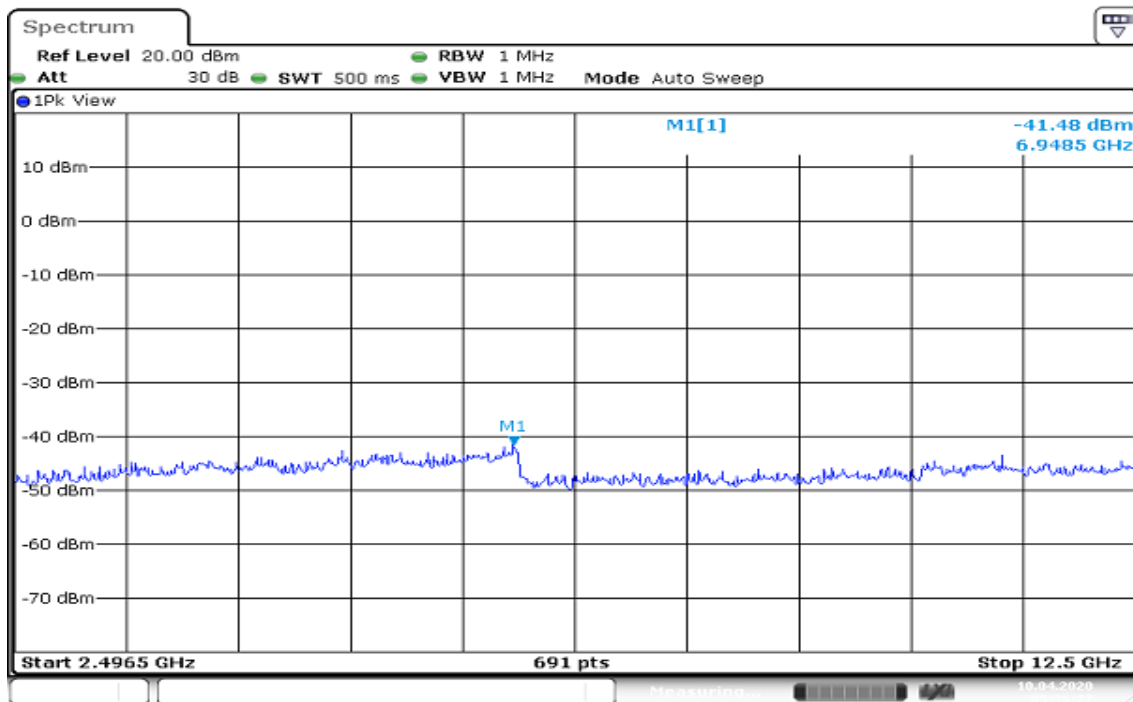


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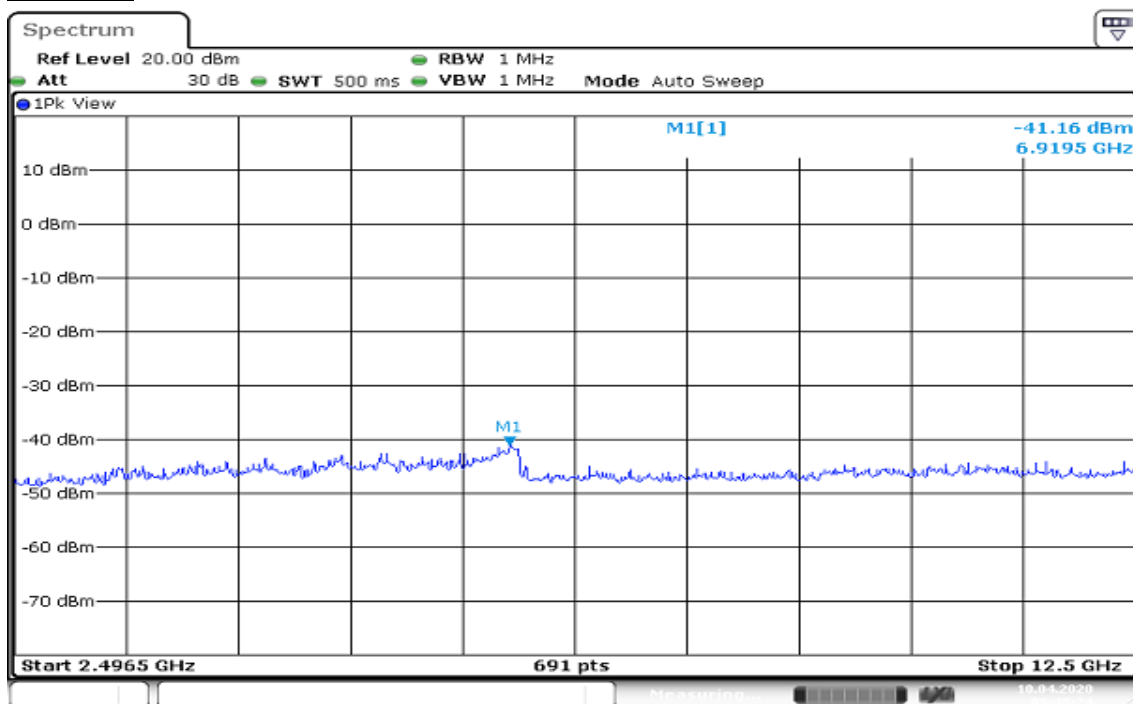
Rev.: 01

CH Mid



Date: 10.APR.2020 09:36:27

CH High



Date: 10.APR.2020 09:40:24

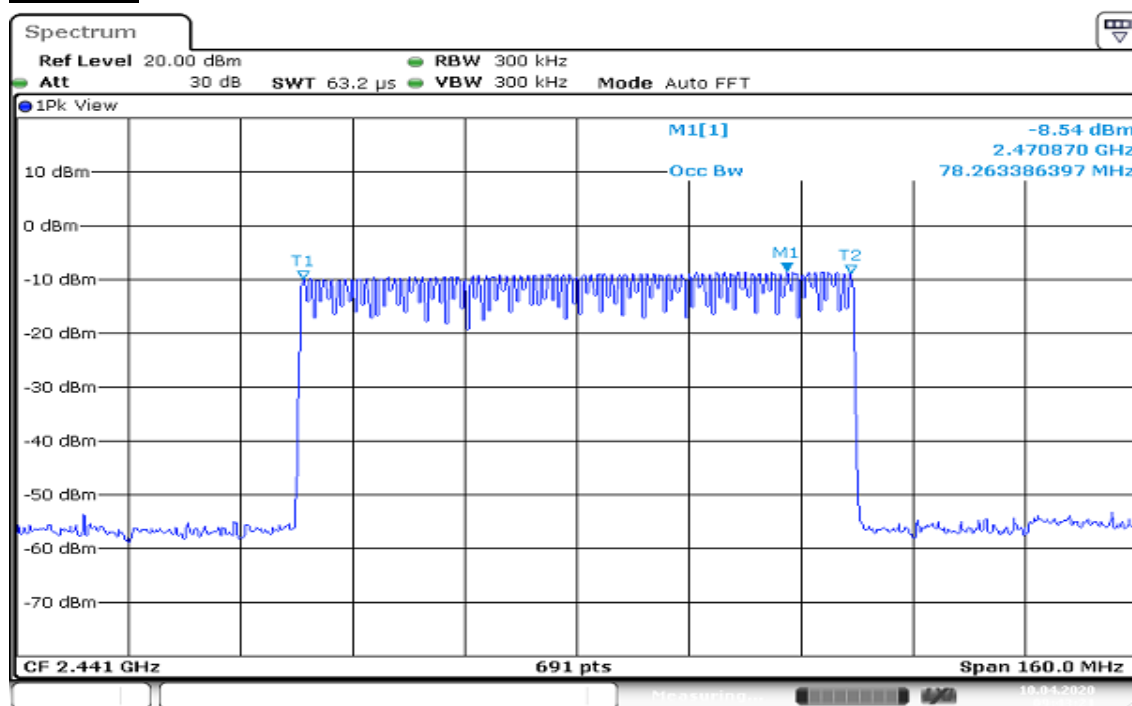
6.4 OCCUPIED BANDWIDTH –NORMAL (99%)

TEST RESULT

Frequency (MHz)	Center Frequency (MHz)	Bandwidth (MHz)	Remark
Hopping	2441	78.26	Normal Voltage

TEST PLOTS

Hopping



Date: 10.APR.2020 09:43:21

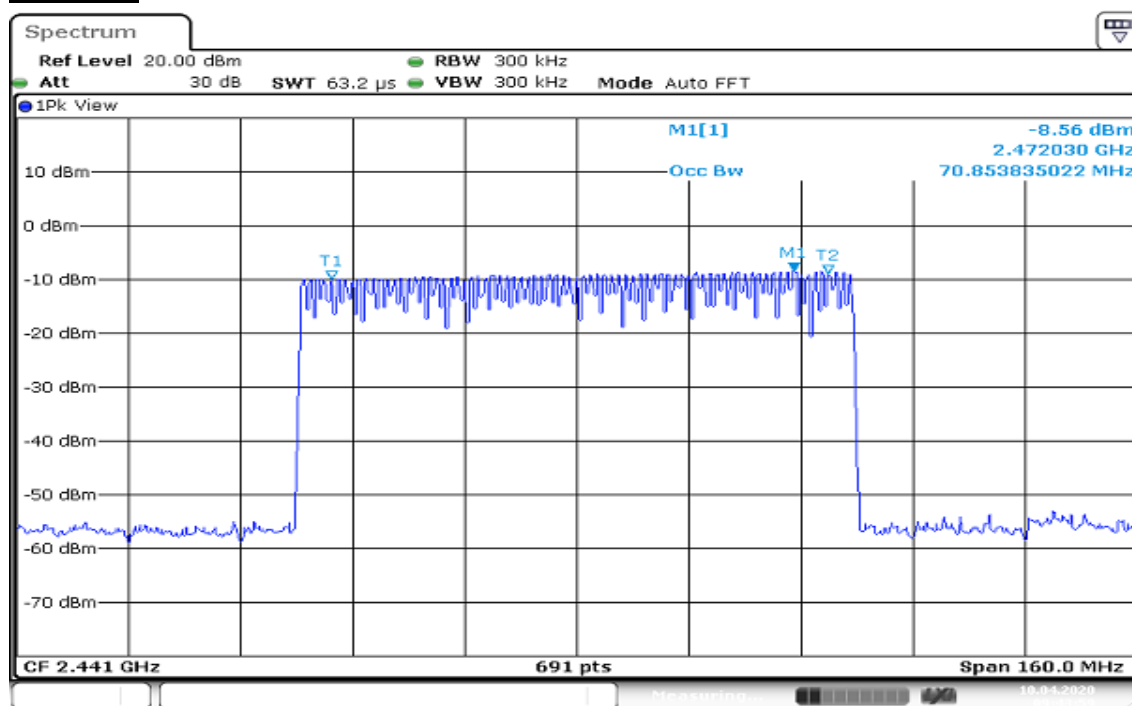
6.5 SPREAD-SPECTRUM BANDWIDTH –NORMAL (90%)

TEST RESULT

Frequency (MHz)	Center Frequency (MHz)	Bandwidth (MHz)	Remark
Hopping	2441	70.85	Normal Voltage

TEST PLOTS

Hopping



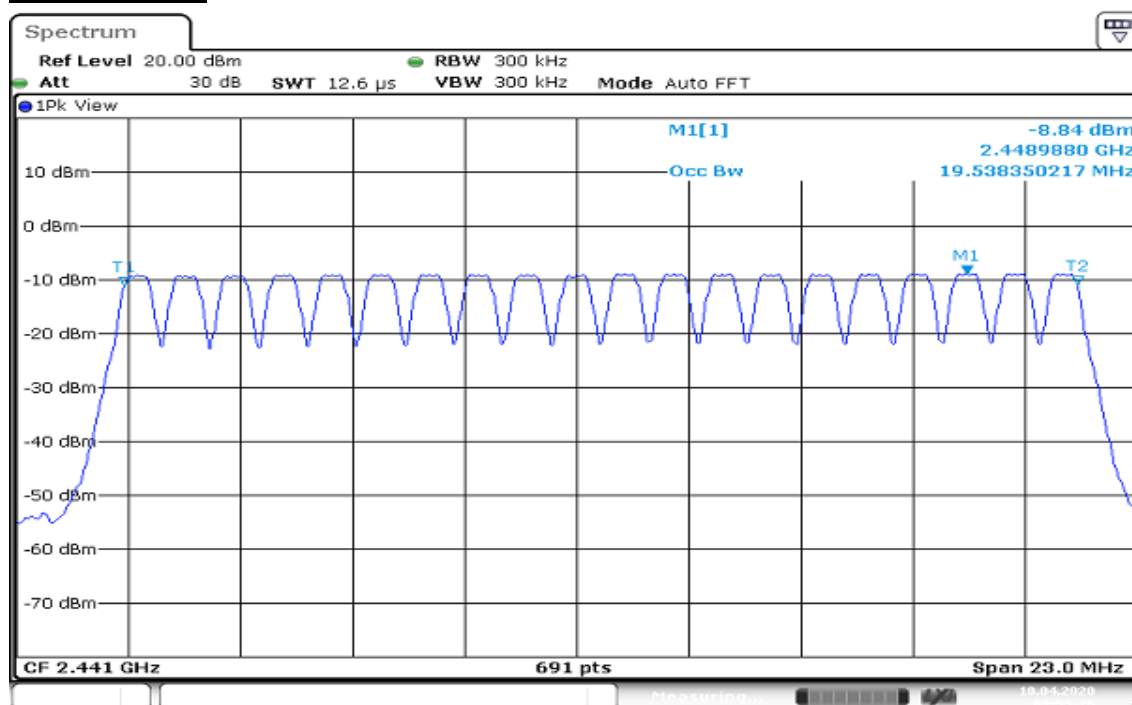
Date: 10.APR.2020 09:44:00

6.6 OCCUPIED BANDWIDTH –AFH-(99%)

TEST RESULT

Frequency (MHz)	Center Frequency (MHz)	Bandwidth (MHz)	Remark
Hopping	2441	19.54	Normal Voltage

TEST PLOTS



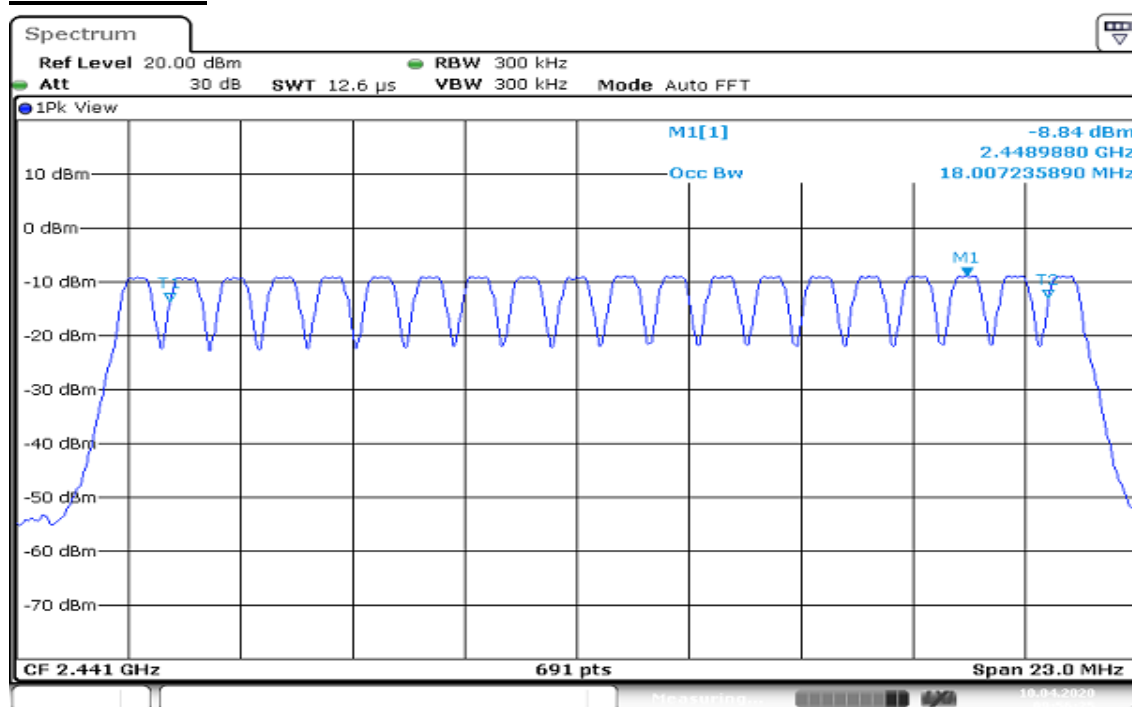
Date: 10.APR.2020 09:55:26

6.7 SPREAD-SPECTRUM BANDWIDTH –AFH(90%)

TEST RESULT

Frequency (MHz)	Center Frequency (MHz)	Bandwidth (MHz)	Remark
Hopping	2441	18.01	Normal Voltage

TEST PLOTS



Date: 10.APR.2020 09:56:25



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6.8 LIMITATION OF COLLATERAL EMISSIONS OF RECEIVER

TEST RESULT

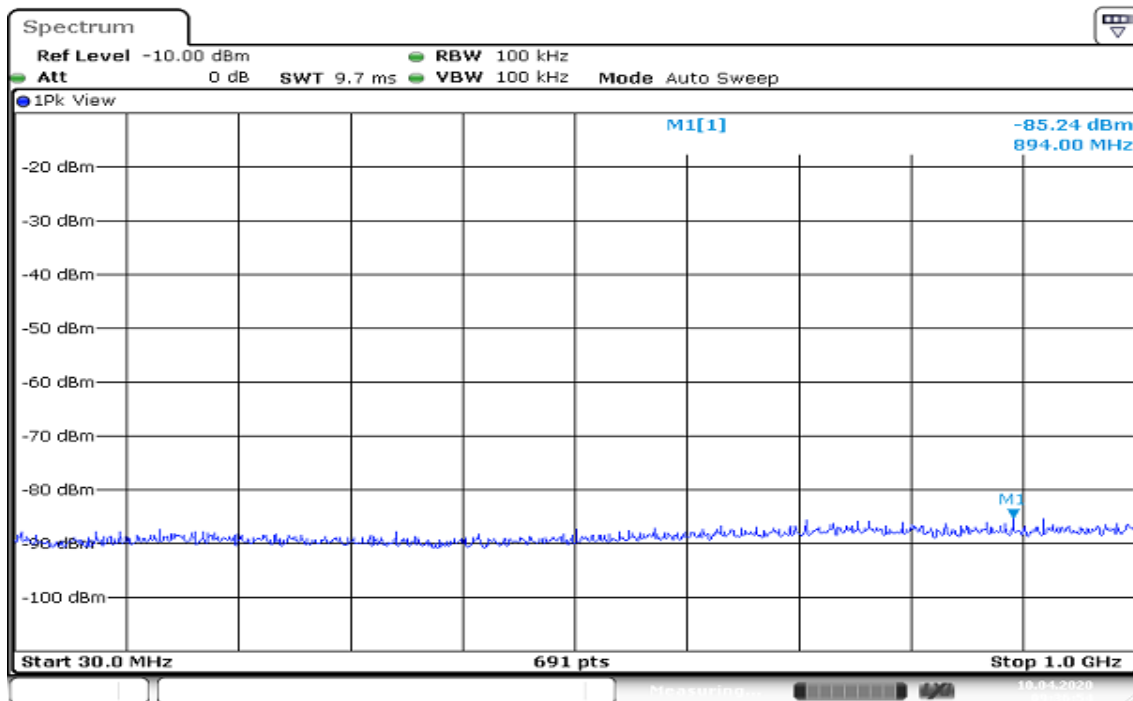
30MHz~1GHz

Freq: 30MHz~1GHz

	Frequency (MHz)	Reading (dBm)	Cable Factor (dB)	Result (nW/MHz)	Remark
30MHz~1GHz	894.0000	-85.24	10.61	0.0344	Normal Voltage

TEST PLOTS

CH Mid





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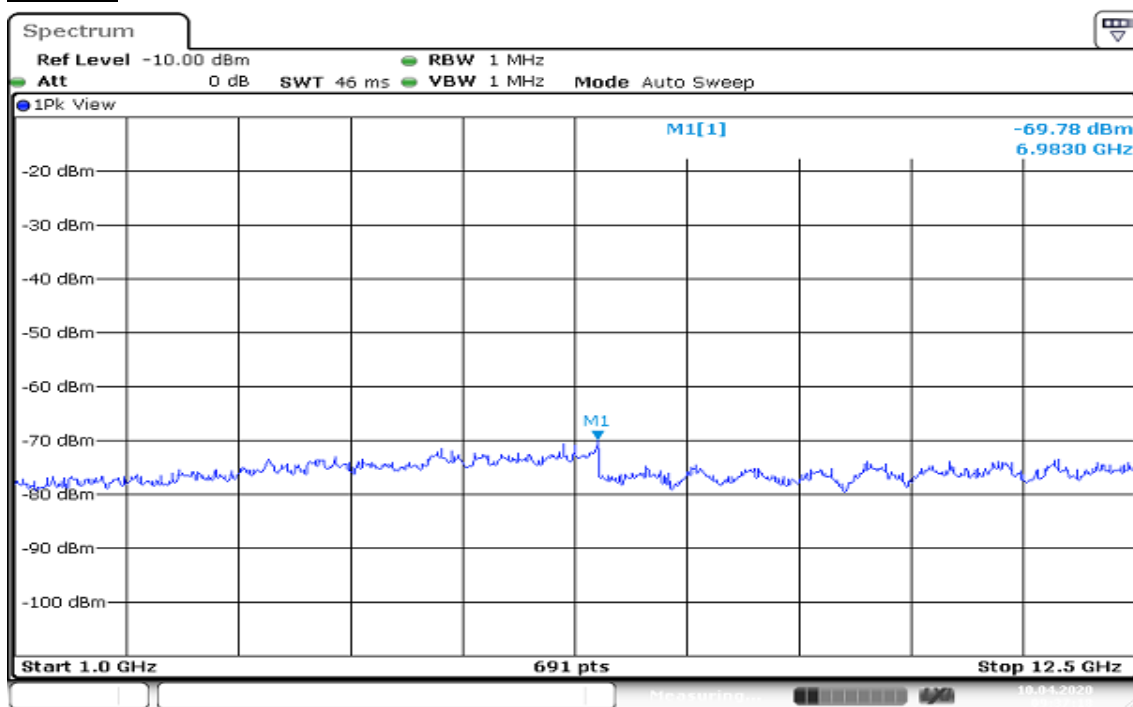
1GHz~12.5GHz

Freq: 1GHz~12.5GHz

	Frequency (MHz)	Reading (dBm)	Cable Factor (dB)	Result (nW/MHz)	Remark
1GHz~12.5GHz	6983.0000	-69.78	10.97	1.3152	Normal Voltage

TEST PLOTS

CH Mid



Date: 10.APR.2020 09:37:19



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6.9 DWELL TIME

Time per one hopping (ON time)	hopping numbers	Dwell Time(ms)
3.18840579	89.00	0.283768115



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7 TEST RESULT FOR BLUETOOTH (CH0~CH78) (FOR 8DPSK)

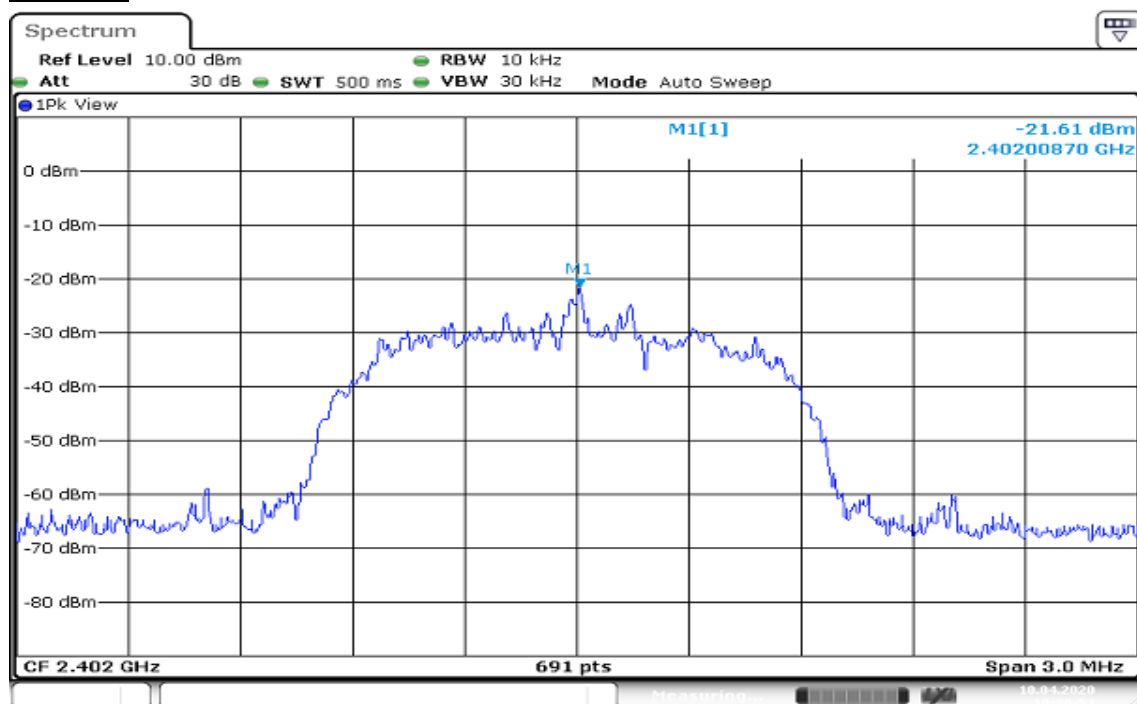
7.1 FREQUENCY ERROR

TEST RESULT

Frequency (MHz)	Reading (MHz)	Deviation (Hz)	Tolerance (ppm)	Remark
2402.0000	2402.008700	8700	3.6220	Normal Voltage
2441.0000	2441.008700	8700	3.5641	
2480.0000	2480.004300	4300	1.7339	

TEST PLOTS

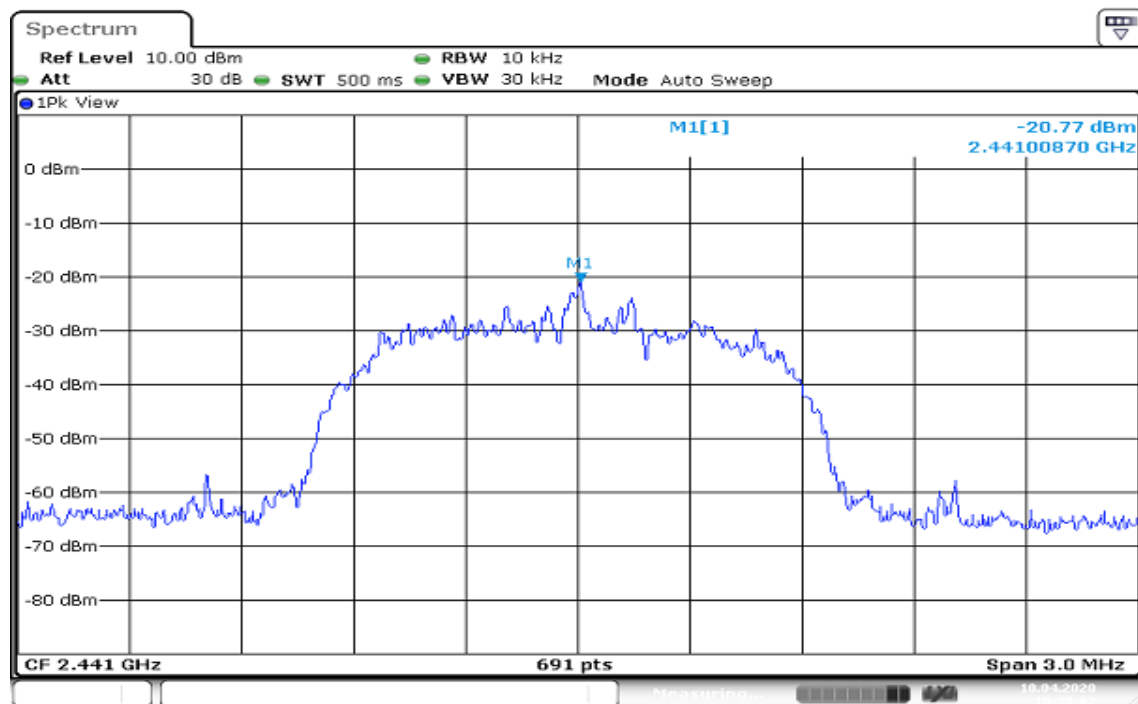
CH Low



Date: 10.APR.2020 10:30:53

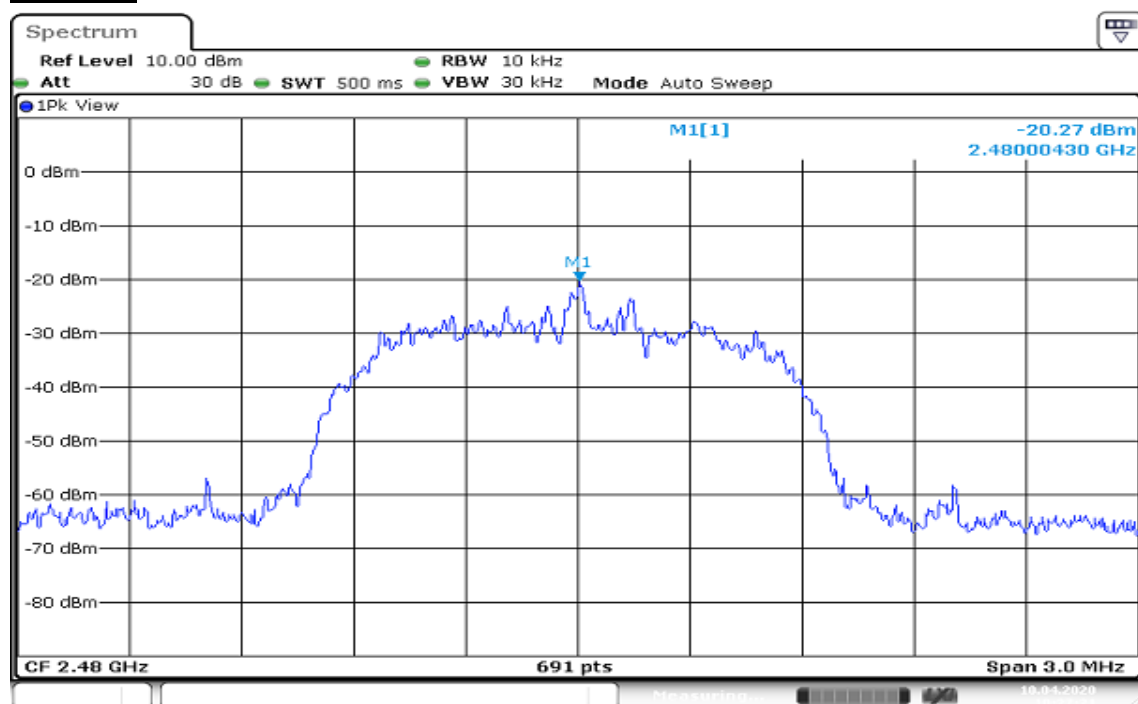
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CH Mid



Date: 10.APR.2020 10:30:02

CH High



Date: 10.APR.2020 10:27:31



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7.2 ANTENNA POWER

NORMAL

Frequency (MHz)	Spectrum Analyser (dBm/MHz)	Cable Factor (mW)	Output Power (mW/MHz)	EIRP Power (dBm/MHz)	Remark
					Normal Voltage
Hopping	-11.86	10.61	0.01048	-18.22600	

AFH

Frequency (MHz)	Spectrum Analyser (dBm/MHz)	Cable Factor (dB)	Output Power (mW/MHz)	EIRP Power (dBm/MHz)	Remark
					Normal Voltage
Hopping	-11.91	10.61	0.04079	-12.32442	

7.3 SPURIOUS EMISSIONS INTENSITY

TEST RESULT

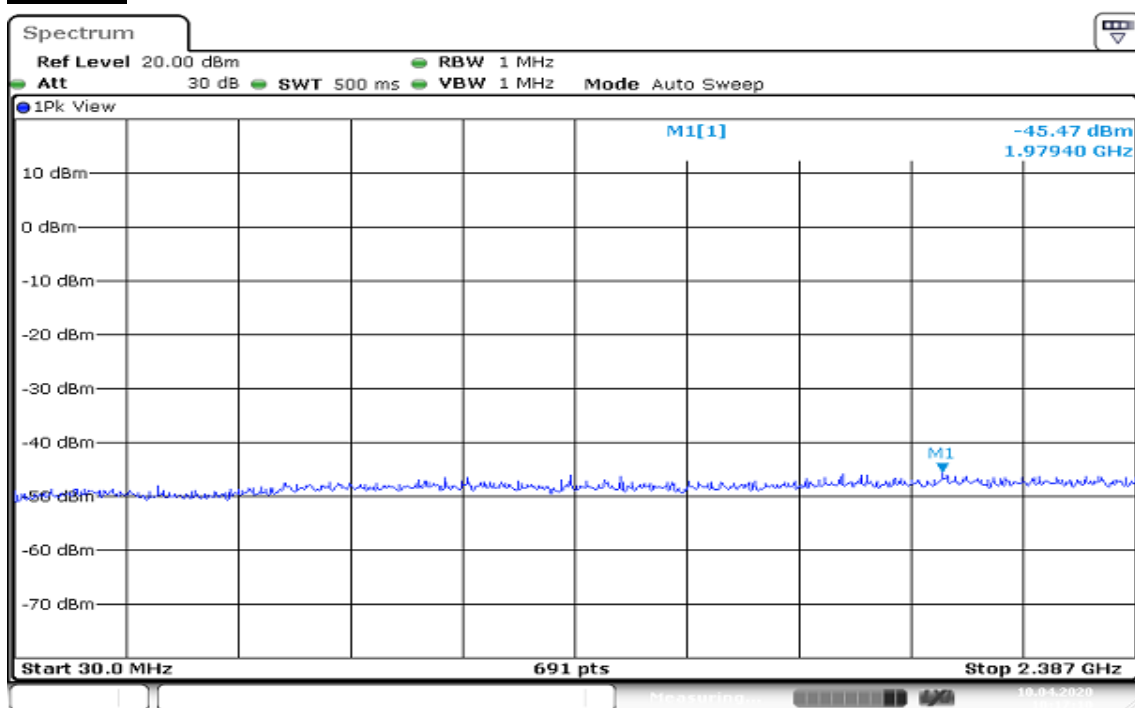
30MHz ~ 2387MHz

(1) Spurious Emission Intensity : 30MHz~less than 2,387MHz

Frequency (MHz)	Reading (MHz)	Reading (dBm)	Cable Factor (dB)	Result (μ W/MHz)	Remark
2402.0000	1979.4000	-45.47	10.37	0.30903	Normal Voltage
2441.0000	2040.8000	-45.69	10.37	0.29376	
2480.0000	2095.4000	-45.79	10.37	0.28708	

TEST PLOTS

CH Low



Date: 10.APR.2020 10:17:10

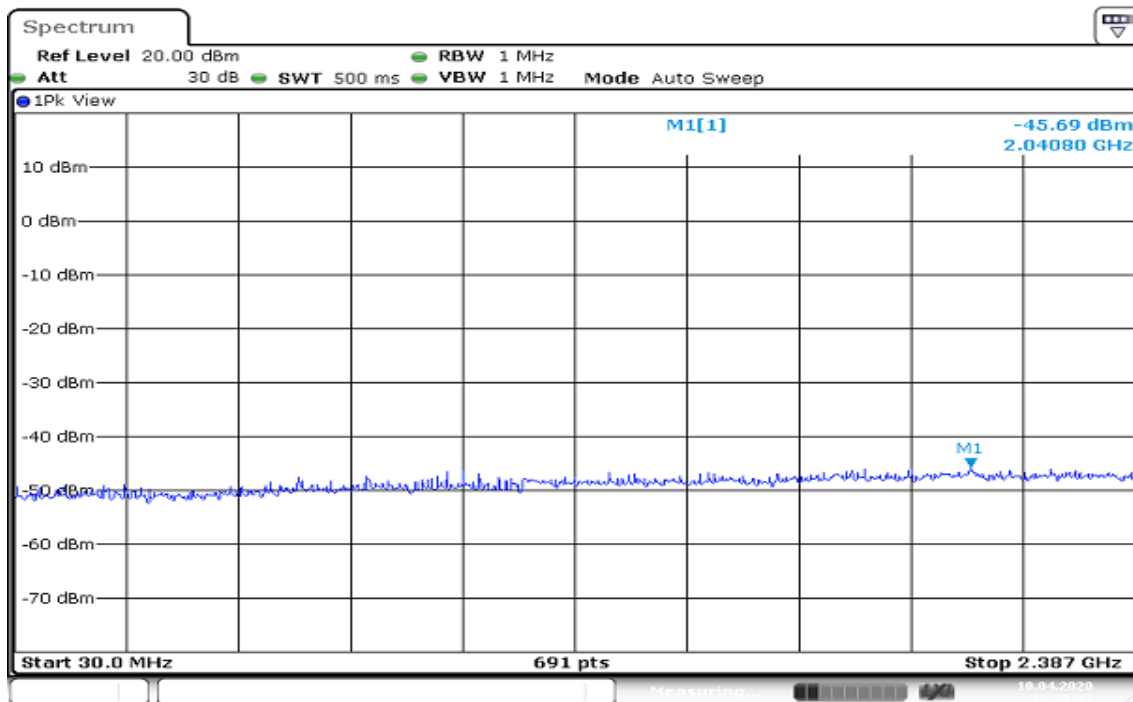


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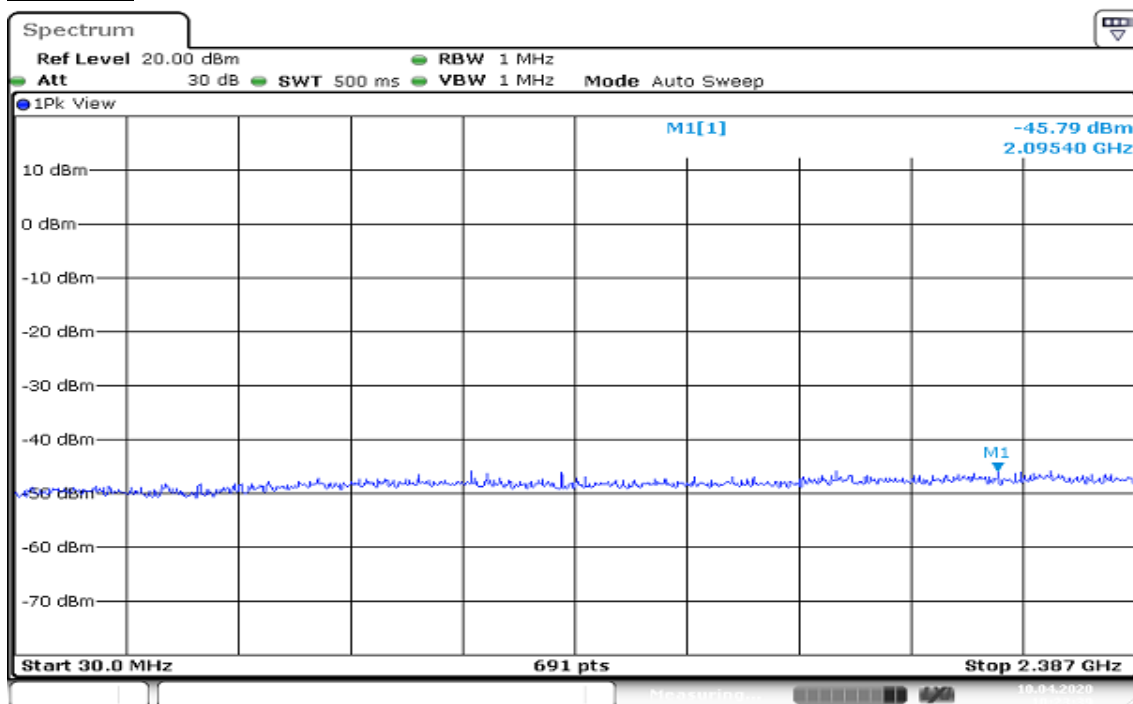
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CH Mid



Date: 10.APR.2020 10:20:47

CH High



Date: 10.APR.2020 10:23:40



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TEST RESULT

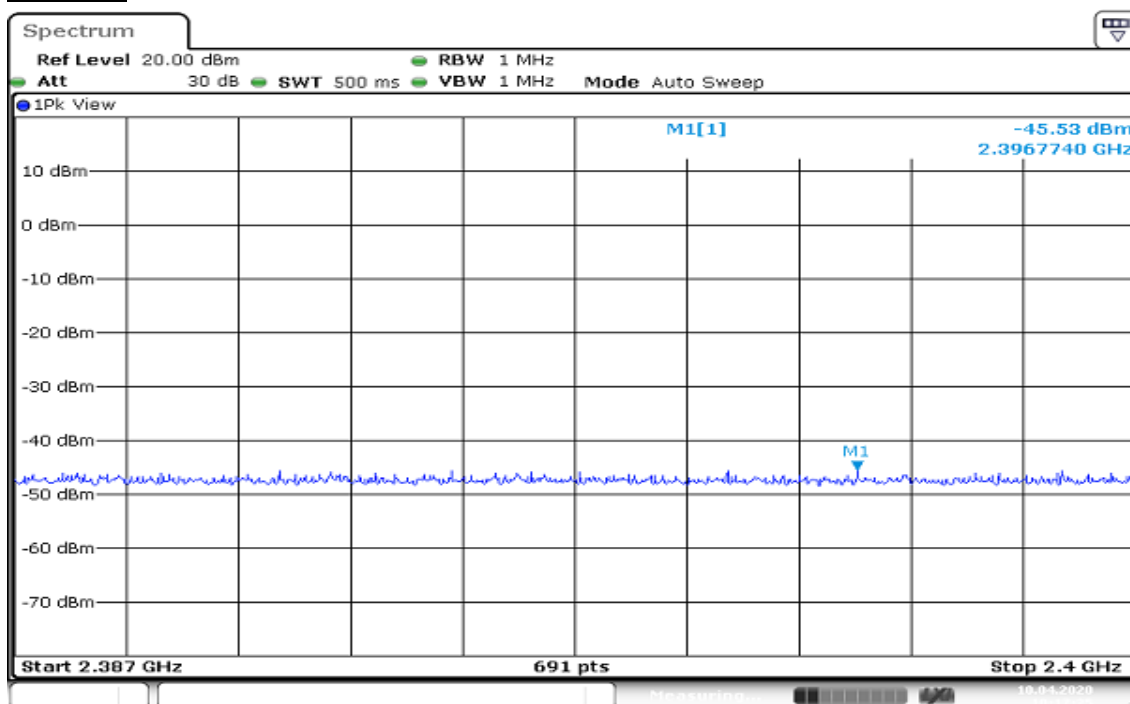
2387MHZ ~ 2400MHZ

(2) Spurious Emission Intensity : 2,387MHz~less than 2,400MHz

Frequency (MHz)	Reading (MHz)	Reading (dBm)	Cable Factor (dB)	Result (μW/MHz)	Remark
2402.0000	2396.7740	-45.53	10.61	0.32211	Normal Voltage
2441.0000	2389.5870	-44.97	10.61	0.36644	
2480.0000	2389.9250	-45.50	10.61	0.32434	

TEST PLOTS

CH Low



Date: 10.APR.2020 10:17:35

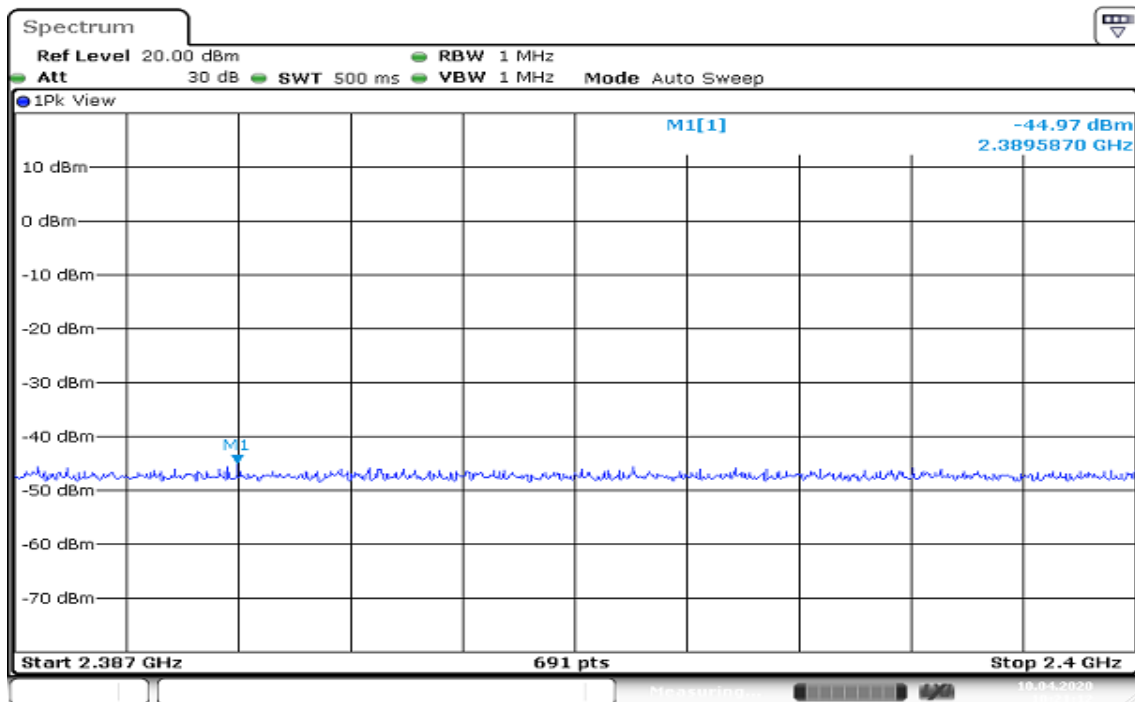


Report No.: T200205D04-RJ2

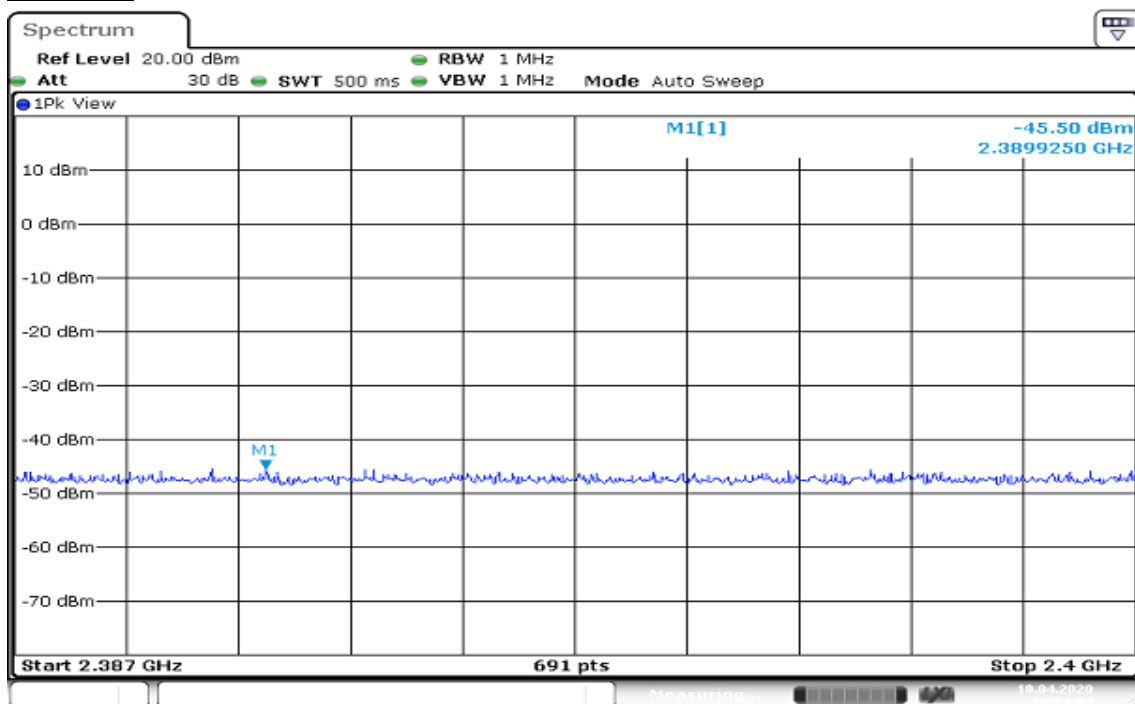
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CH Mid



CH High





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TEST RESULT

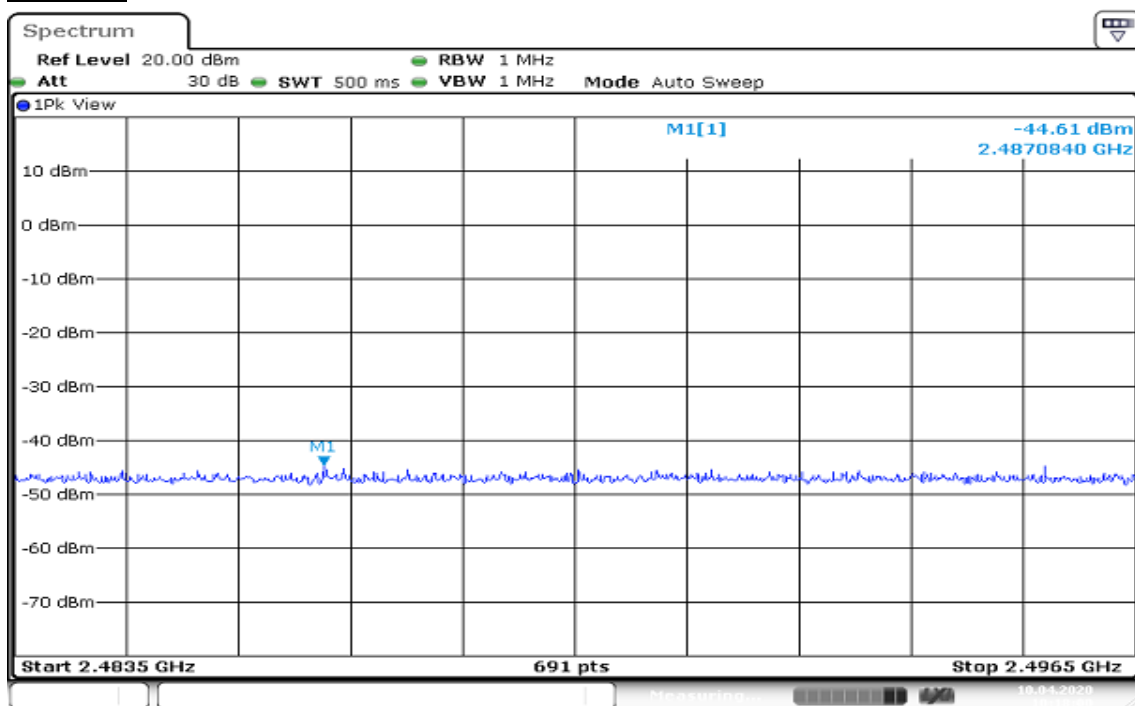
2483.5MHz ~ 2496.5MHz

(3) Spurious Emission Intensity : 2,483.5MHz~2,496.5MHz

Frequency (MHz)	Reading (MHz)	Reading (dBm)	Cable Factor (dB)	Result (μW/MHz)	Remark
2402.0000	2487.0840	-44.61	10.61	0.39811	Normal Voltage
2441.0000	2496.1900	-45.11	10.61	0.35481	
2480.0000	2493.6690	-45.02	10.61	0.36224	

TEST PLOTS

CH Low



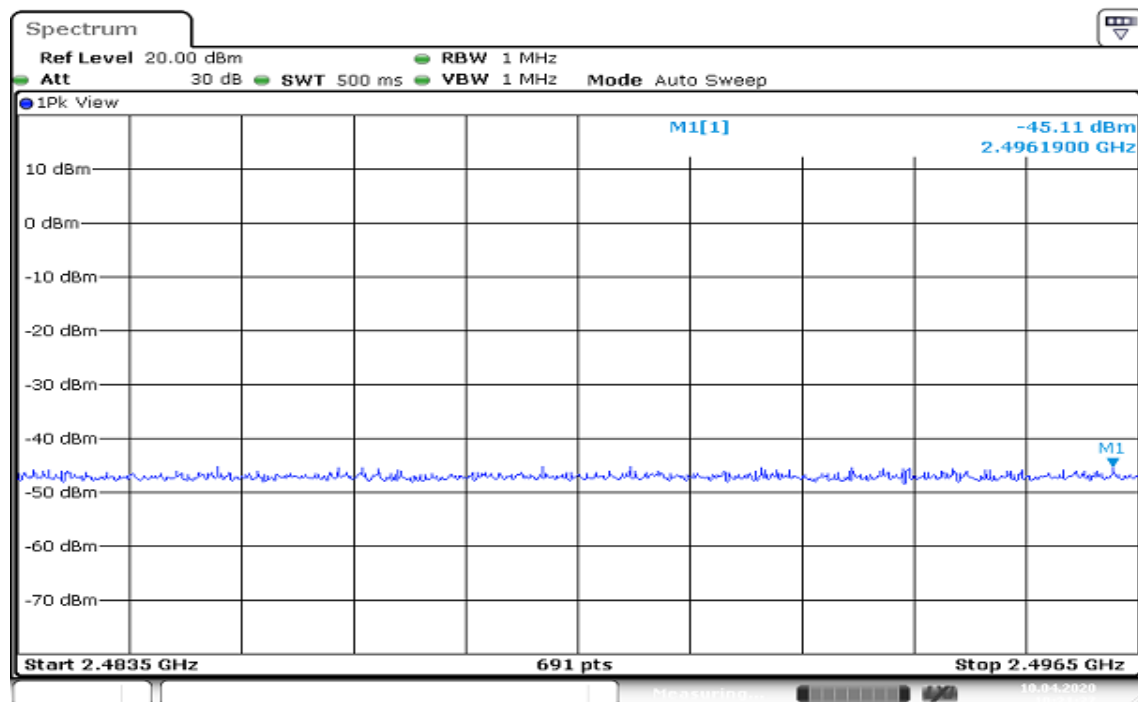


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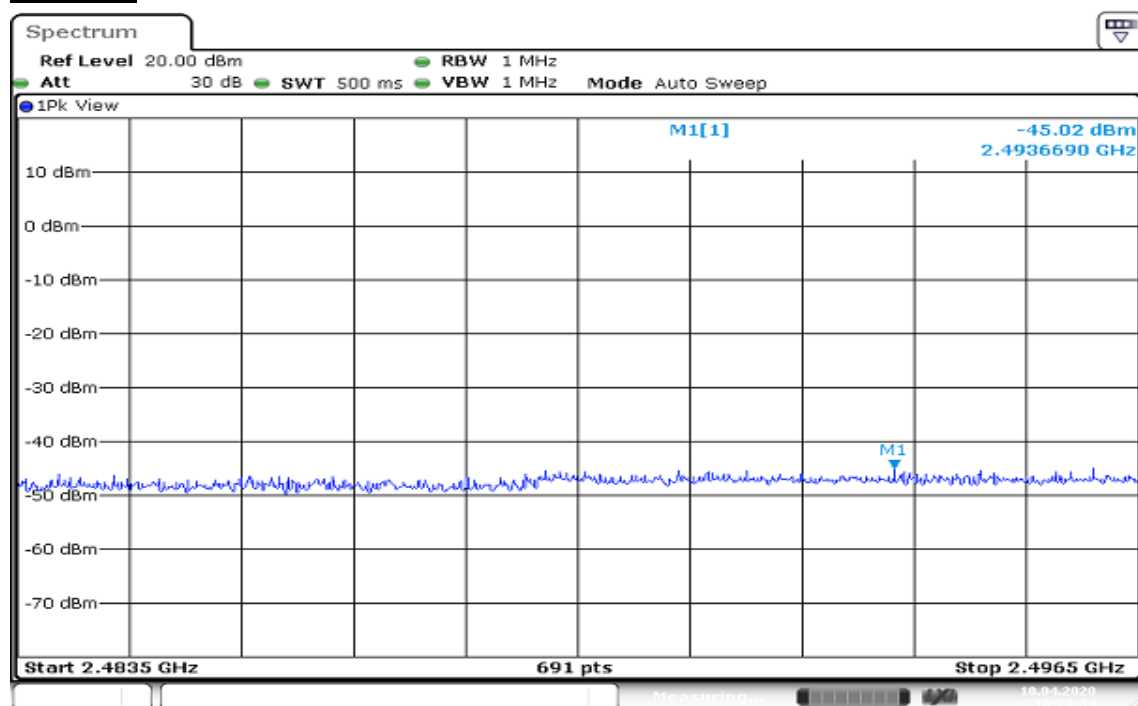
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CH Mid



Date: 10.APR.2020 10:21:37

CH High



Date: 10.APR.2020 10:24:34



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TEST RESULT

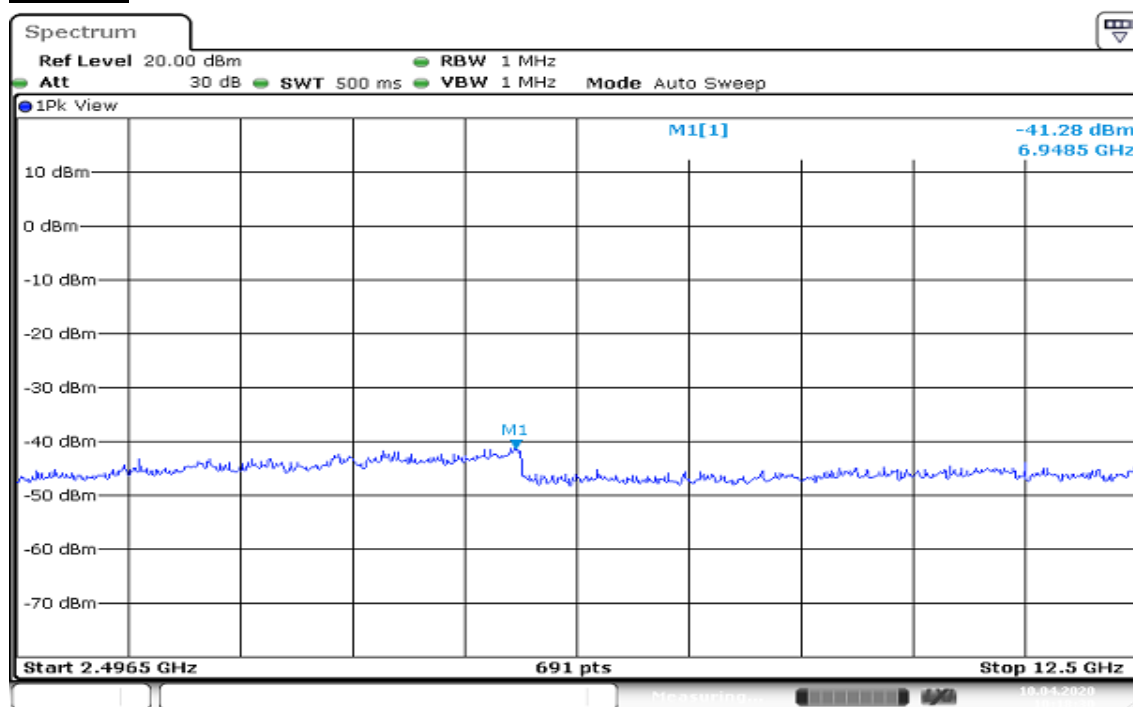
2496.5MHz~12.5GHz

(4) Spurious Emission Intensity : more than 2,496.5MHz~12.5GHz

Frequency (MHz)	Reading (MHz)	Reading (dBm)	Cable Factor (dB)	Result (μW/MHz)	Remark
2402.0000	6948.5000	-41.28	10.61	0.85704	Normal Voltage
2441.0000	6861.5000	-40.15	10.61	1.11173	
2480.0000	6948.5000	-40.86	10.61	0.94406	

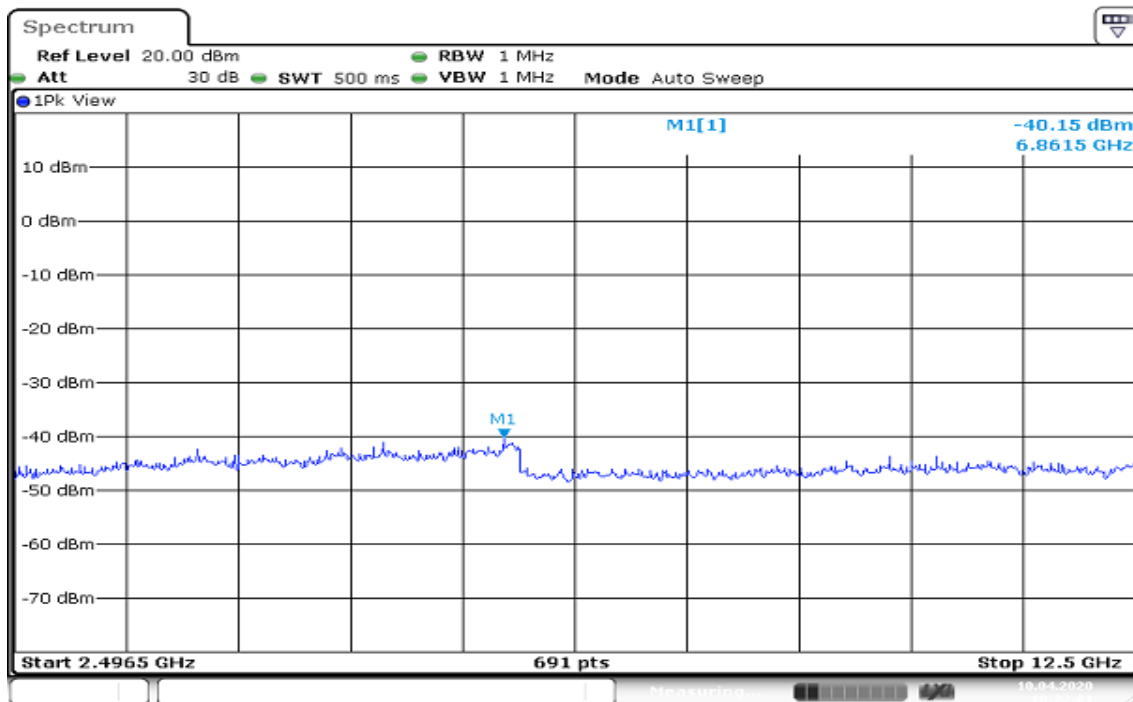
TEST PLOTS

CH Low



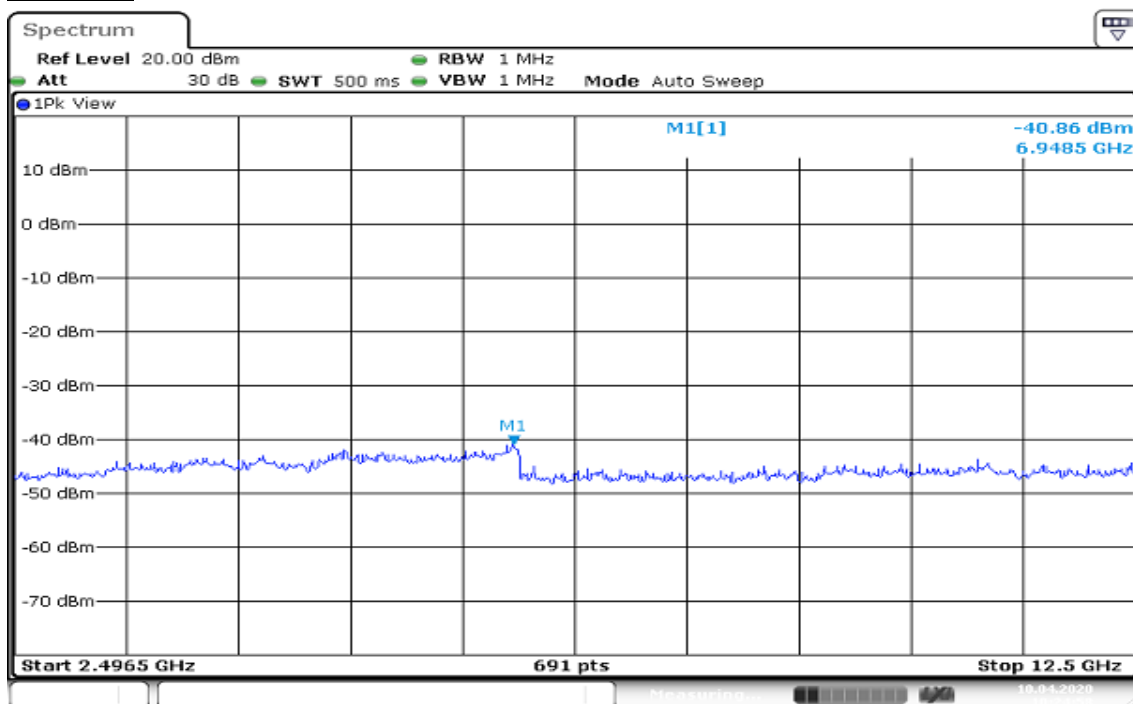
Date: 10.APR.2020 10:18:30

CH Mid



Date: 10.APR.2020 10:22:01

CH High



Date: 10.APR.2020 10:24:58

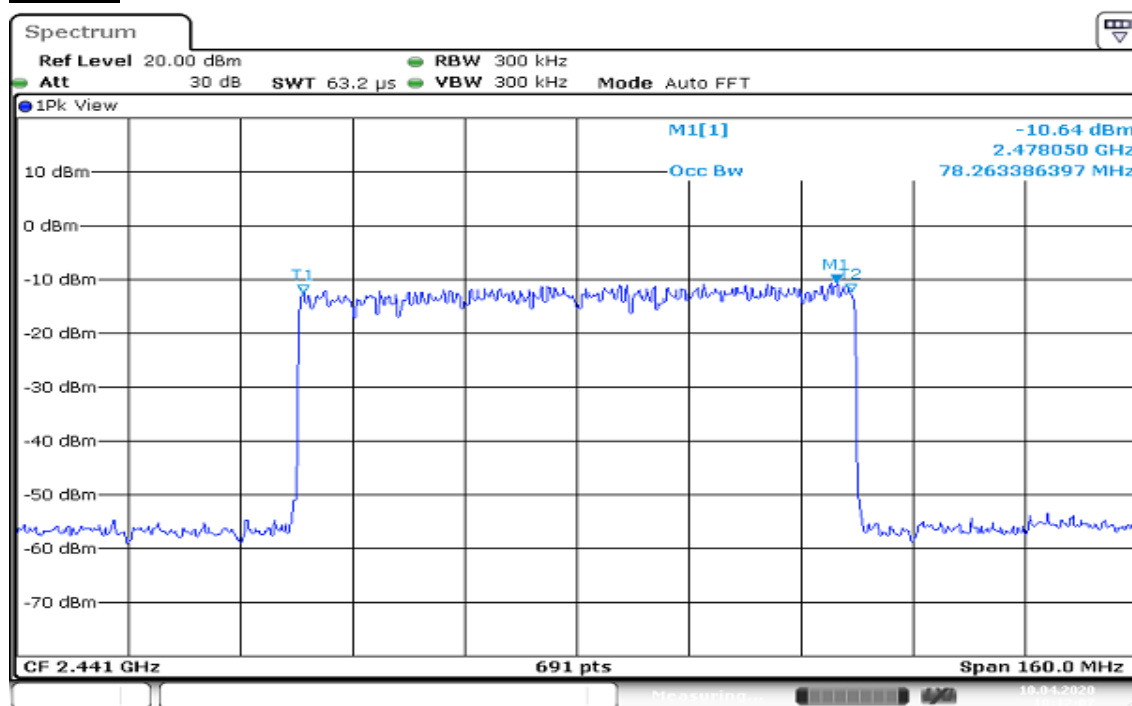
7.4 OCCUPIED BANDWIDTH-NORMAL (99%)

TEST RESULT

Frequency (MHz)	Center Frequency (MHz)	Bandwidth (MHz)	Remark
Hopping	2441	78.26	Normal Voltage

TEST PLOTS

CH Mid



Date: 10.APR.2020 10:12:07

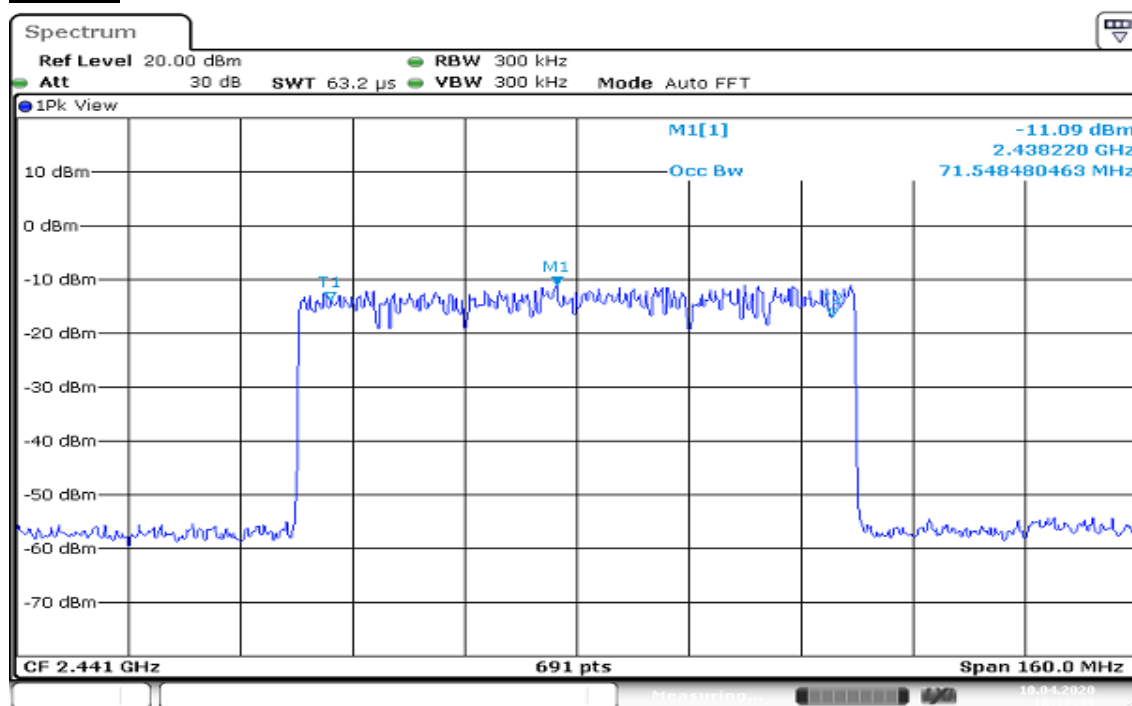
7.5 SPREAD-SPECTRUM BANDWIDTH -NORMAL(90%)

TEST RESULT

Frequency (MHz)	Center Frequency (MHz)	Bandwidth (MHz)	Remark
Hopping	2441	71.55	Normal Voltage

TEST PLOTS

CH Mid



Date: 10.APR.2020 10:12:40

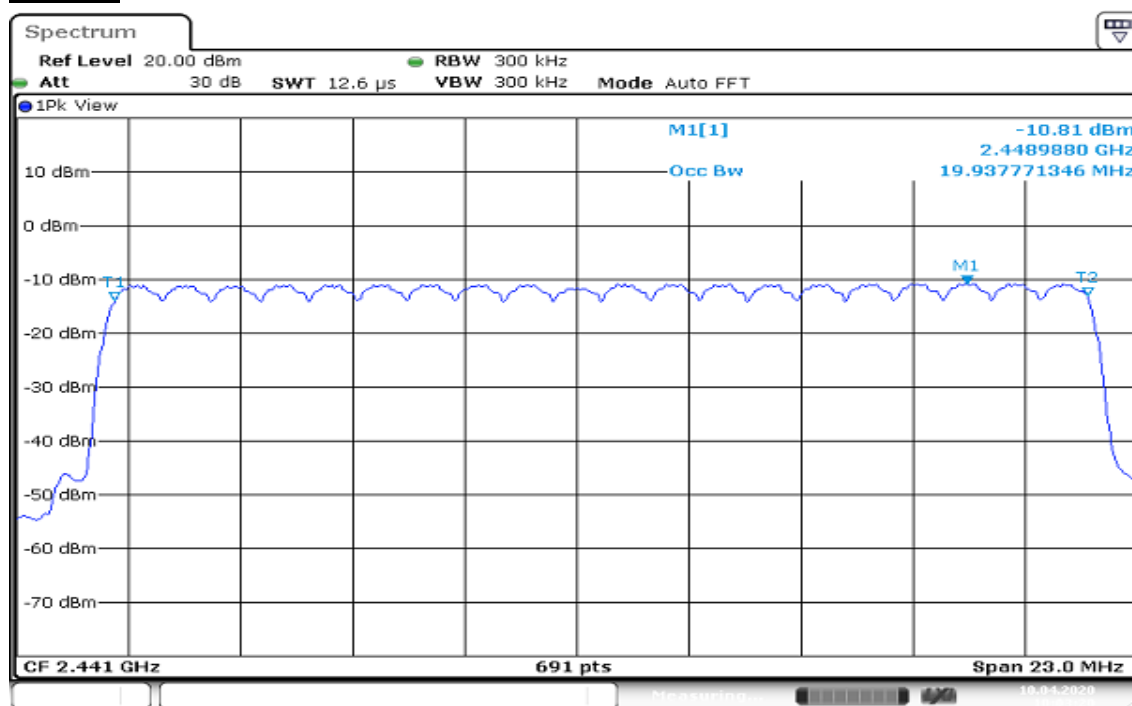
7.6 OCCUPIED BANDWIDTH-AFH (99%)

TEST RESULT

Frequency (MHz)	Center Frequency (MHz)	Bandwidth (MHz)	Remark
Hopping	2441	19.94	Normal Voltage

TEST PLOTS

CH Mid



Date: 10.APR.2020 10:03:20

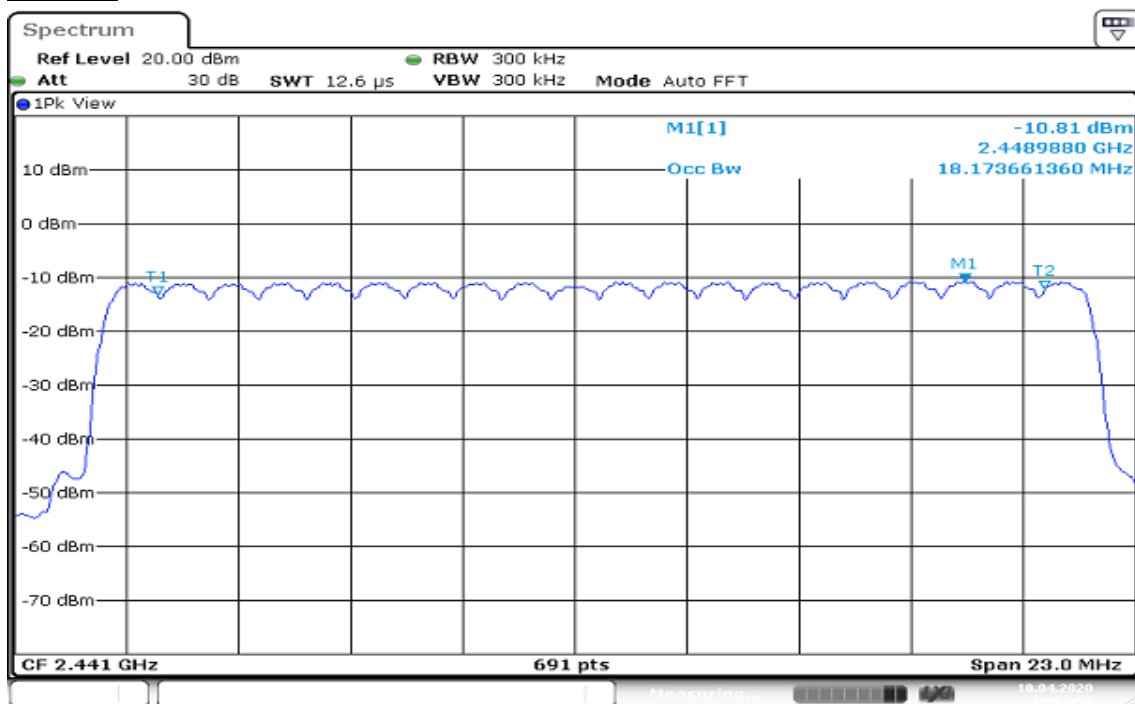
7.7 SPREAD-SPECTRUM BANDWIDTH -AFH(90%)

TEST RESULT

Frequency (MHz)	Center Frequency (MHz)	Bandwidth (MHz)	Remark
Hopping	2441	18.17	Normal Voltage

TEST PLOTS

CH Mid



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7.8 LIMITATION OF COLLATERAL EMISSIONS OF RECEIVER

TEST RESULT

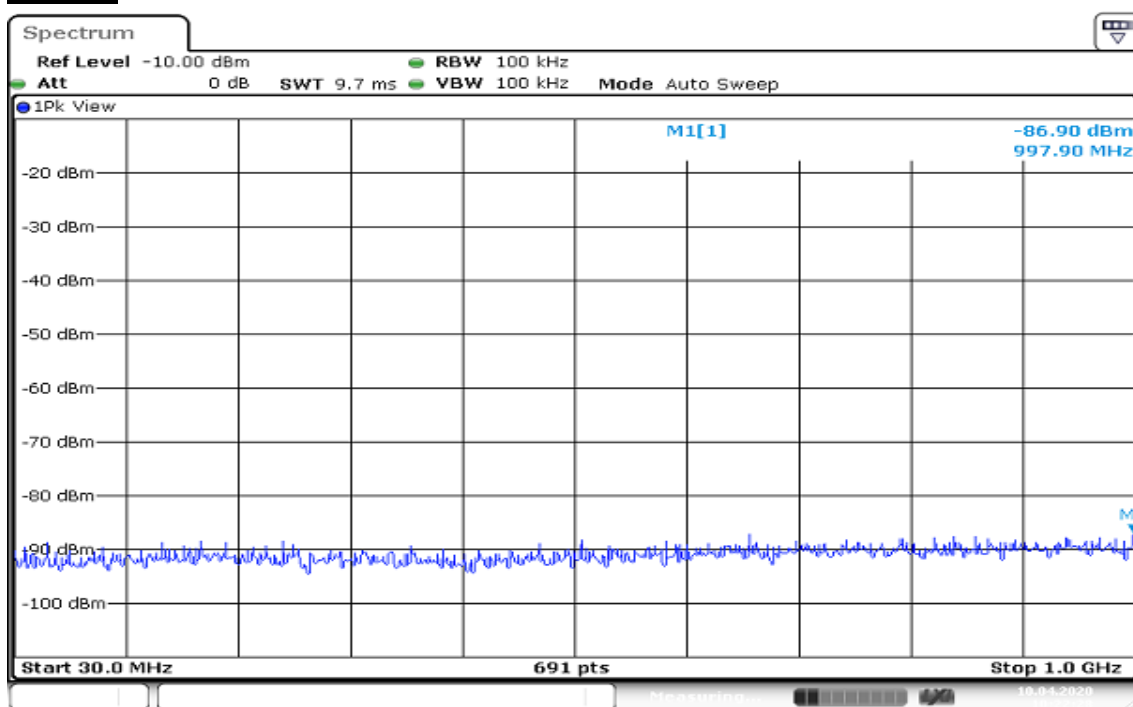
30MHz~1000MHz

Freq: 30MHz~1GHz

	Frequency (MHz)	Reading (dBm)	Cable Factor (dB)	Result (nW/MHz)	Remark
30MHz~less than 1GHz	997.9000	-86.90	10.61	0.0235	Normal Voltage

TEST PLOTS

CH Mid



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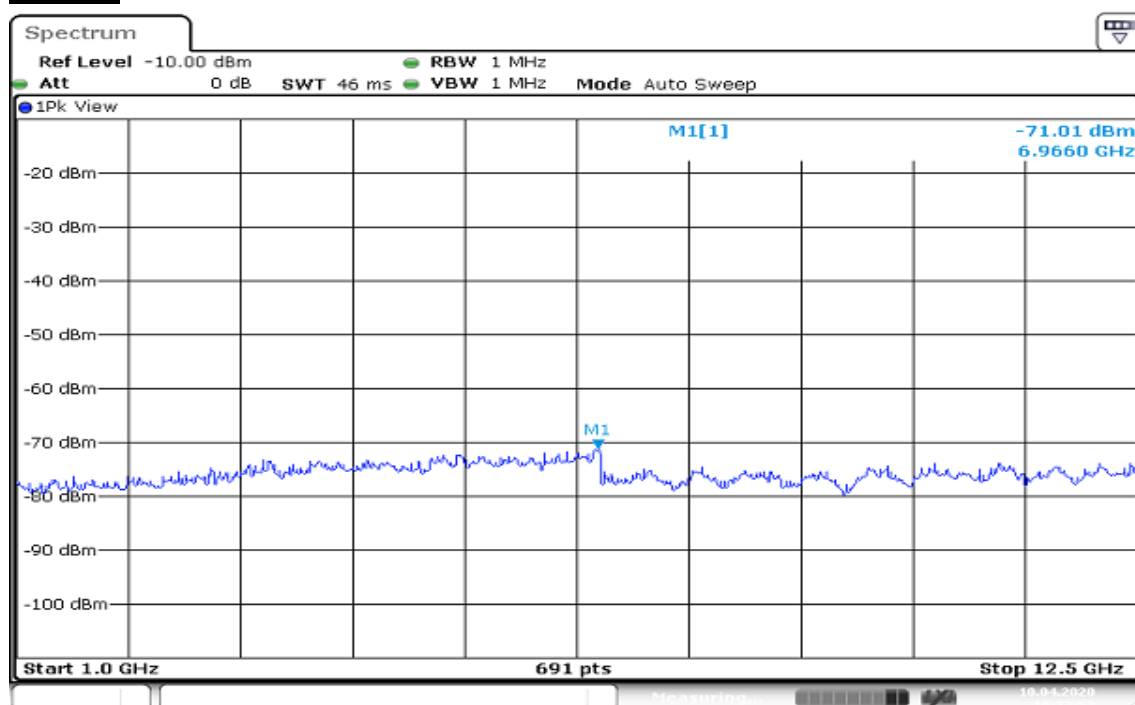
1GHz~12.5GHz

Freq: 1GHz~12.5GHz

	Frequency (MHz)	Reading (dBm)	Cable Factor (dB)	Result (nW/MHz)	Remark
1GHz~12.5GHz	6966.0000	-71.01	10.97	0.9908	Normal Voltage

TEST PLOTS

CH Mid



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7.9 DWELL TIME

Time per one hopping (ON time)	hopping numbers	Dwell Time(ms)
3.18840579	96.000	0.306086956

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8 TEST RESULT FOR BLUETOOTH4.1(CH0~CH39)(FOR GFSK)

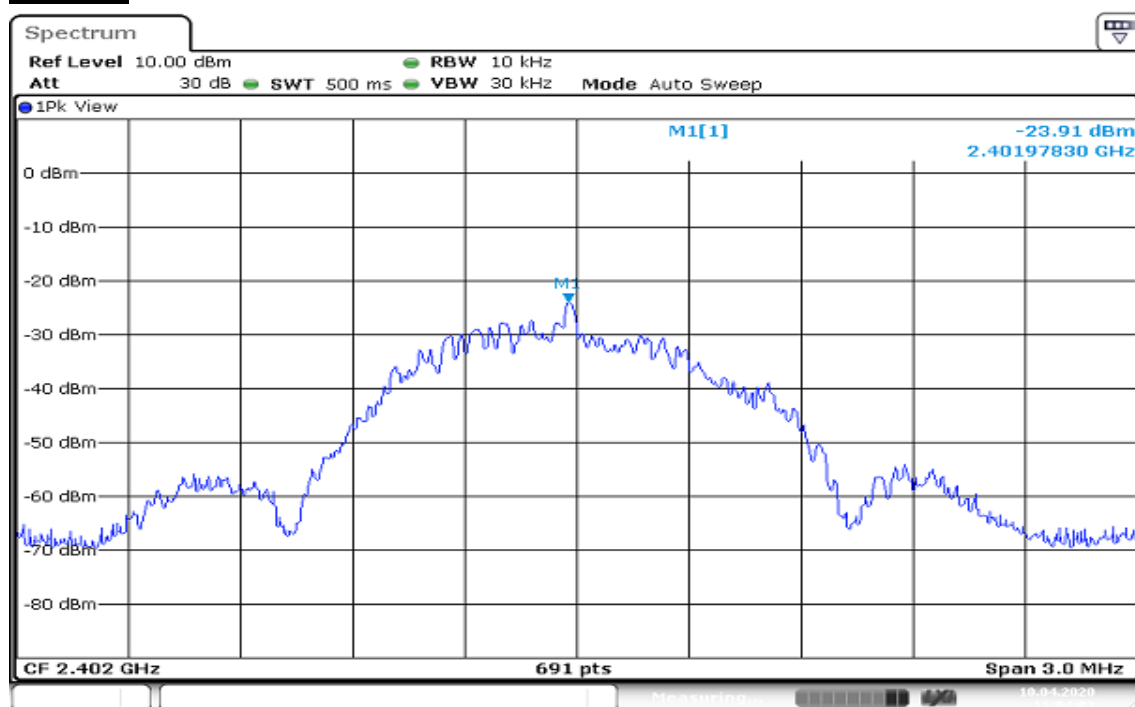
8.1 FREQUENCY ERROR

TEST RESULT

Frequency (MHz)	Reading (MHz)	Deviation (Hz)	Tolerance (ppm)	Remark
2402	2401.978300	-21700	-9.0341	Normal Voltage
2440	2439.978300	-21700	-8.8934	
2480	2479.978300	-21700	-8.7500	

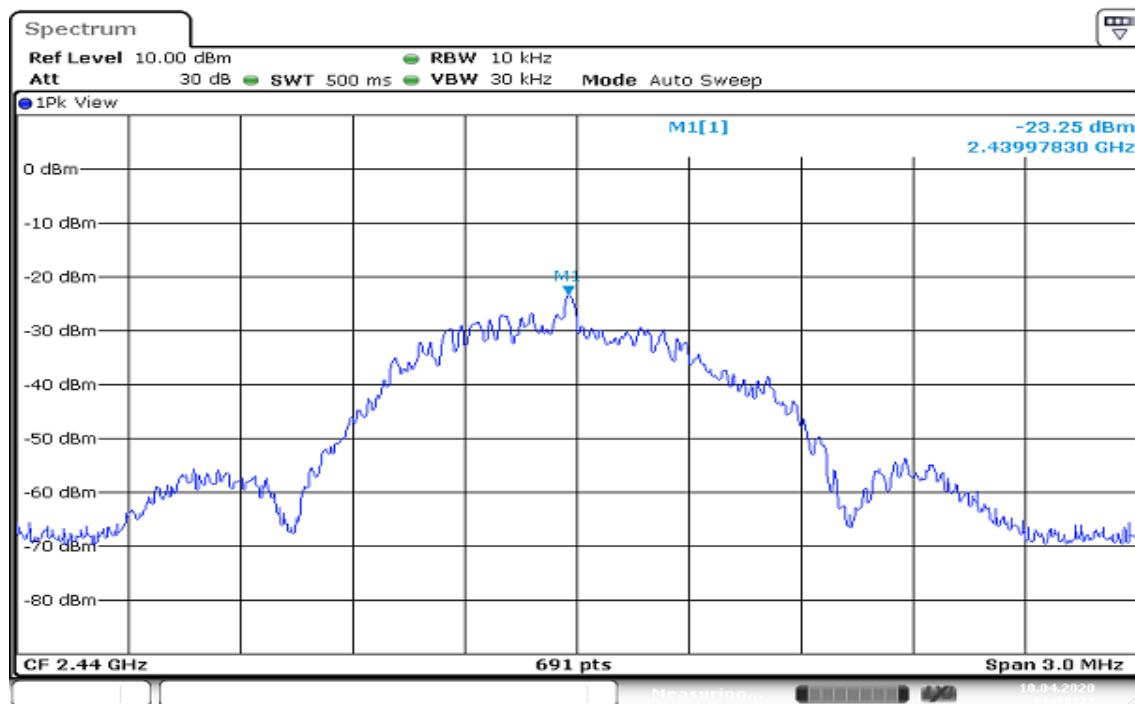
TEST PLOTS

CH Low

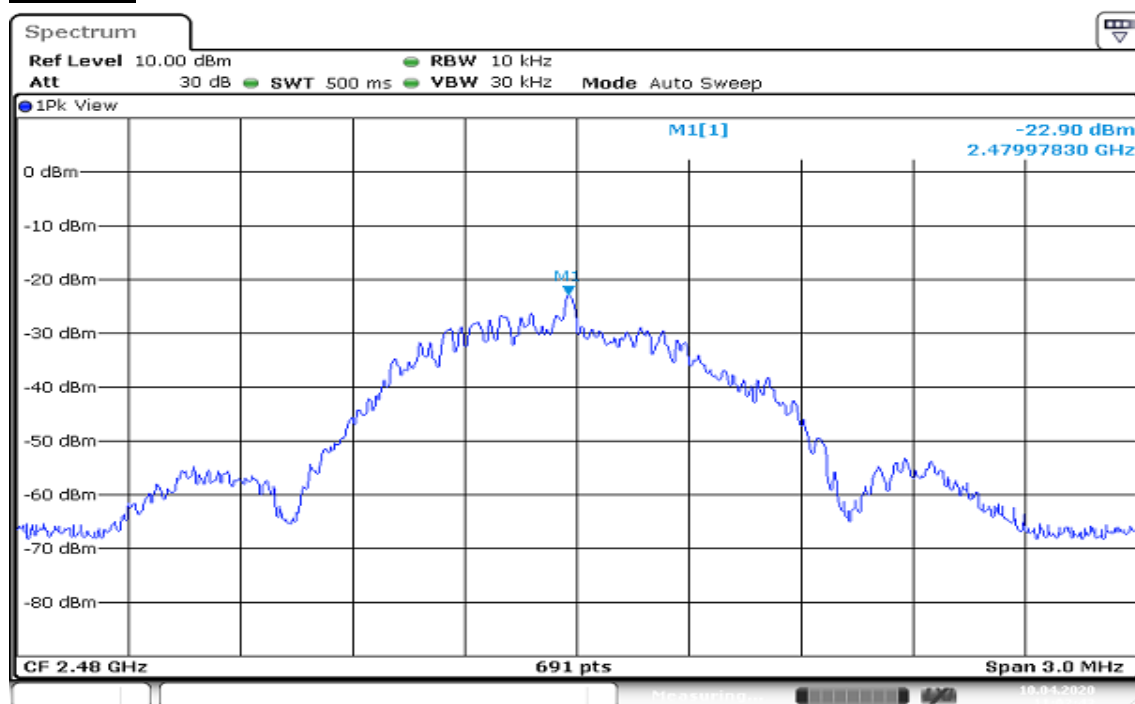


Date: 10.APR.2020 11:04:03

CH Mid



CH High





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8.2 ANTENNA POWER

TEST RESULT

Antenna 1

1.57 dBi

Frequency (MHz)	Spectrum Analyser (dBm)	Cable Factor (d B)	Output Power		EIRP Power		Remark
			d Bm	mW	d Bm	mW	
2402	-13.93	10.61	-3.32	0.46559	-1.75000	0.66834	Normal Voltage
2440	-13.36	10.61	-2.75	0.53088	-1.18000	0.76208	
2480	-12.94	10.61	-2.33	0.58479	-0.76000	0.83946	



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8.3 SPURIOUS EMISSIONS INTENSITY

TEST RESULT

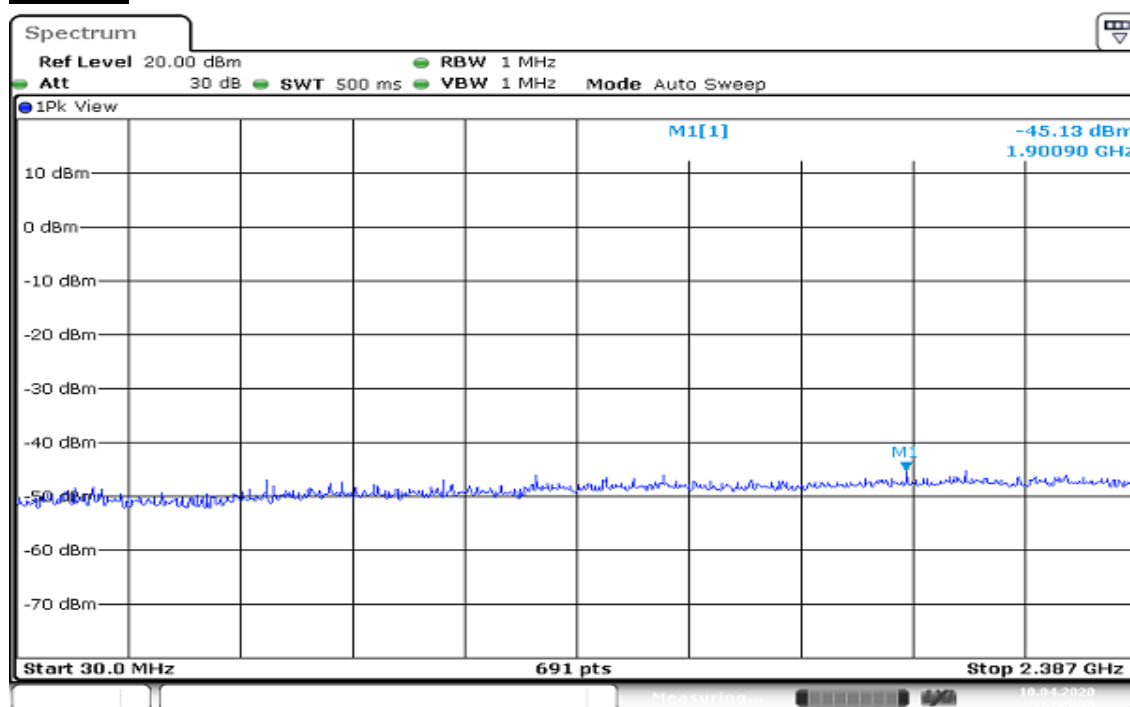
30MHz ~ 2387MHz

(1) Spurious Emission Intensity : 30MHz~less than 2,387MHz

Frequency (MHz)	Reading (MHz)	Reading (dBm)	Cable Factor (dB)	Result (μ W/MHz)	Remark
2402.0000	1900.9000	-45.13	10.61	0.35318	Normal Voltage
2440.0000	2126.1000	-45.55	10.61	0.32063	
2480.0000	1457.5000	-45.77	10.61	0.30479	

TEST PLOTS

CH Low



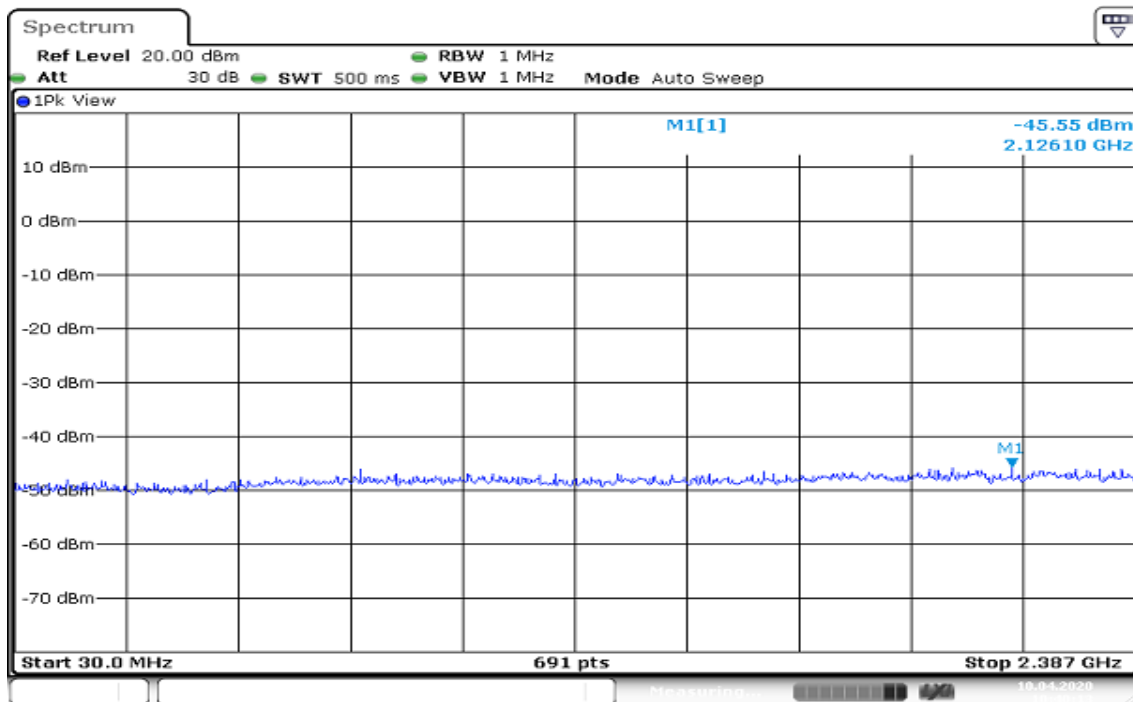


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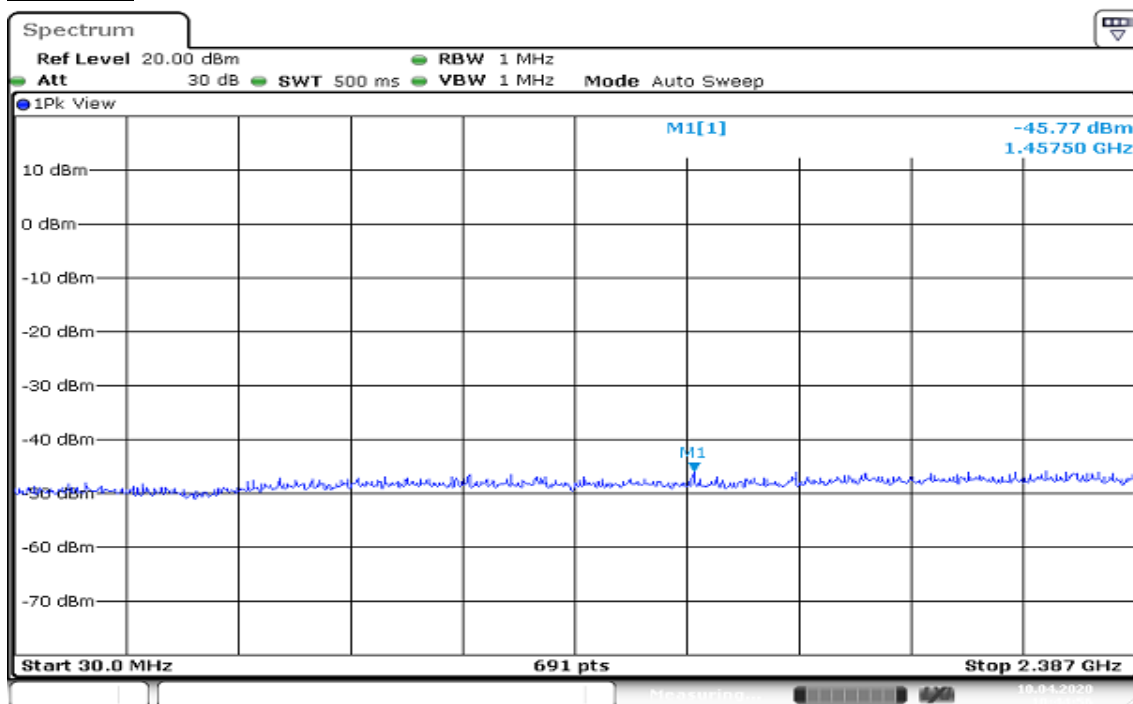
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CH High





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TEST RESULT

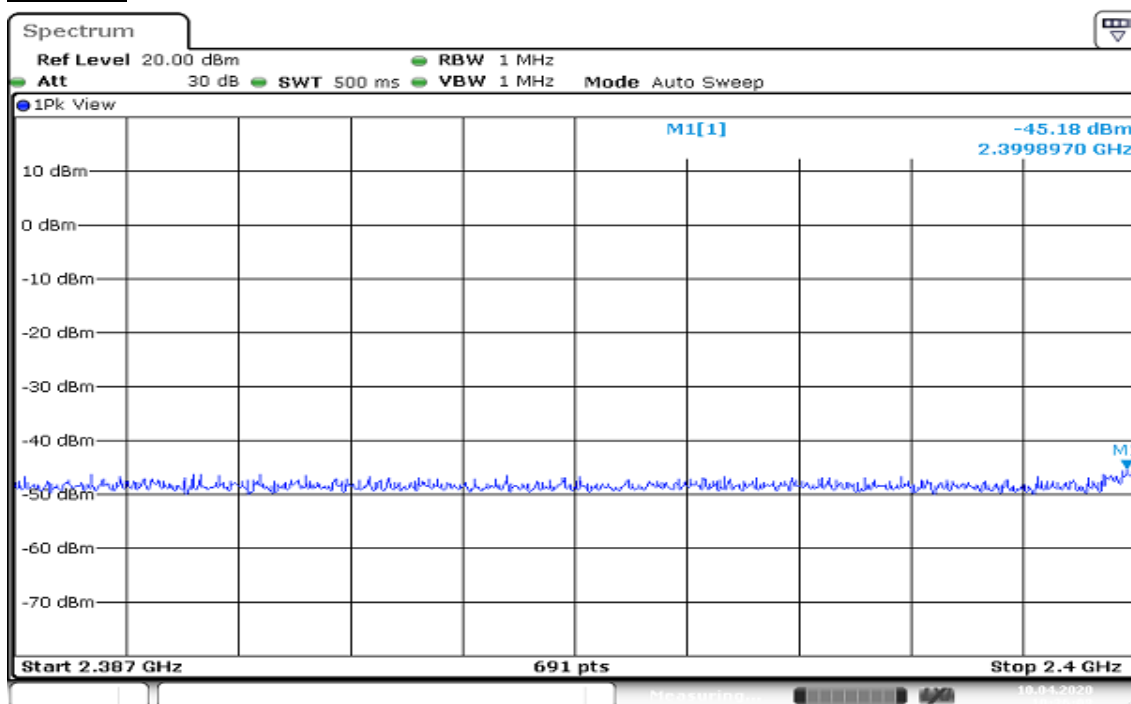
2387MHZ ~ 2400MHZ

(2) Spurious Emission Intensity : 2,387MHz~less than 2,400MHz

Frequency (MHz)	Reading (MHz)	Reading (dBm)	Cable Factor (dB)	Result (μW/MHz)	Remark
2402.0000	2399.8970	-45.18	10.61	0.34914	Normal Voltage
2440.0000	2391.2050	-45.10	10.61	0.35563	
2480.0000	2389.8690	-45.14	10.61	0.35237	

TEST PLOTS

CH Low



Date: 10.APR.2020 10:36:08

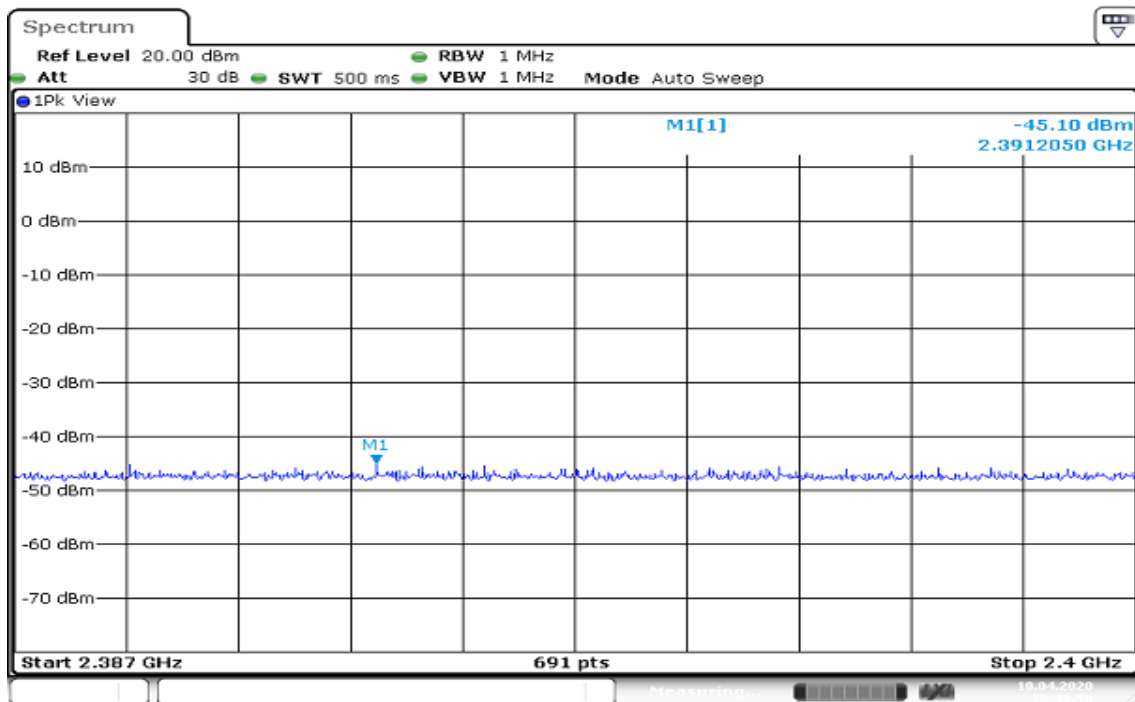


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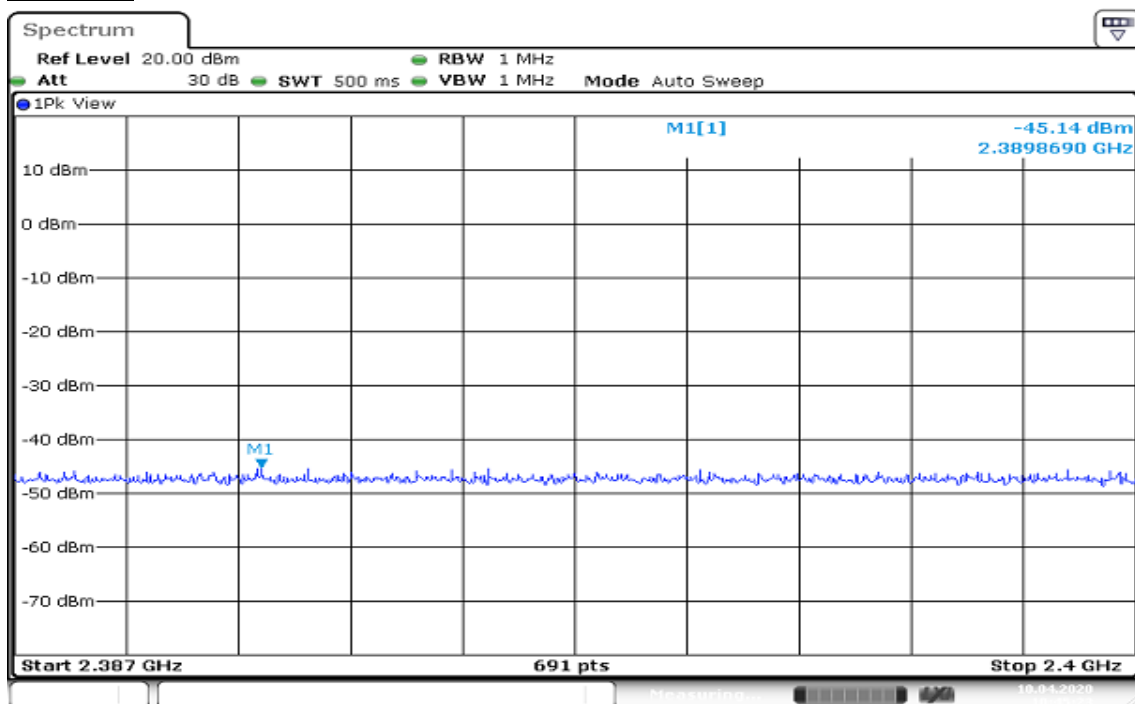
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CH Mid



CH High





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TEST RESULT

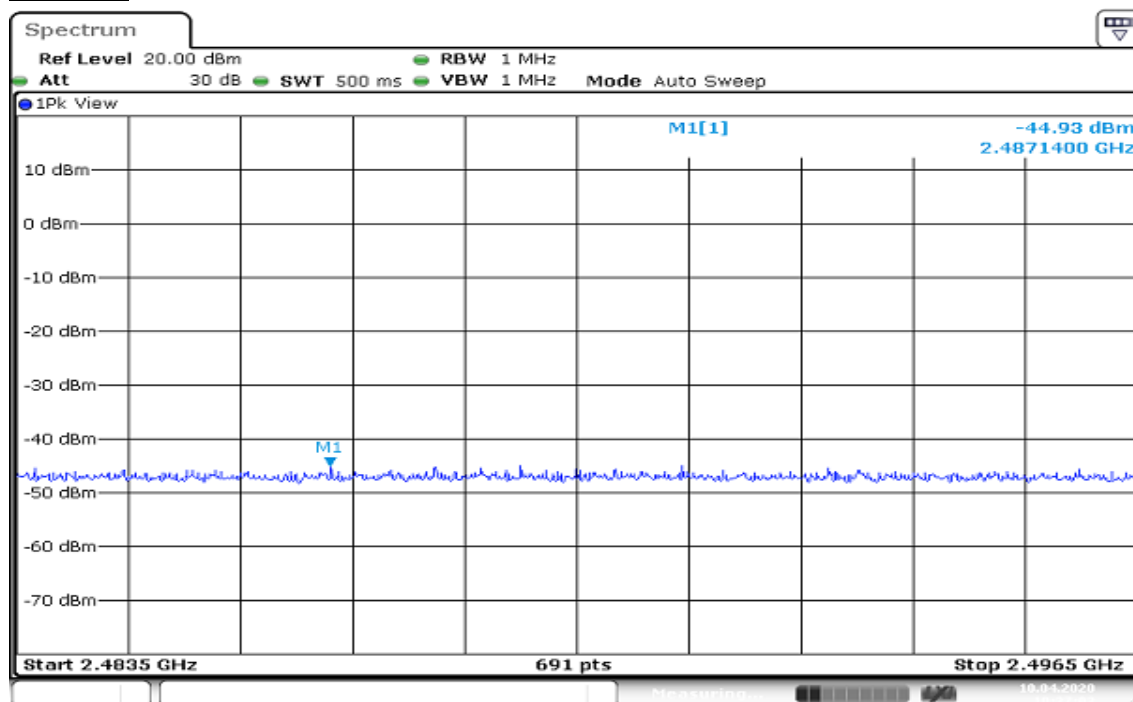
2483.5MHz ~ 2496.5MHz

(3) Spurious Emission Intensity : 2,483.5MHz~2,496.5MHz

Frequency (MHz)	Reading (MHz)	Reading (dBm)	Cable Factor (dB)	Result (μ W/MHz)	Remark
2402.0000	2487.1400	-44.93	10.61	0.36983	Normal Voltage
2440.0000	2491.6740	-44.99	10.61	0.36475	
2480.0000	2496.3020	-45.13	10.61	0.35318	

TEST PLOTS

CH Low



Date: 10.APR.2020 10:37:03

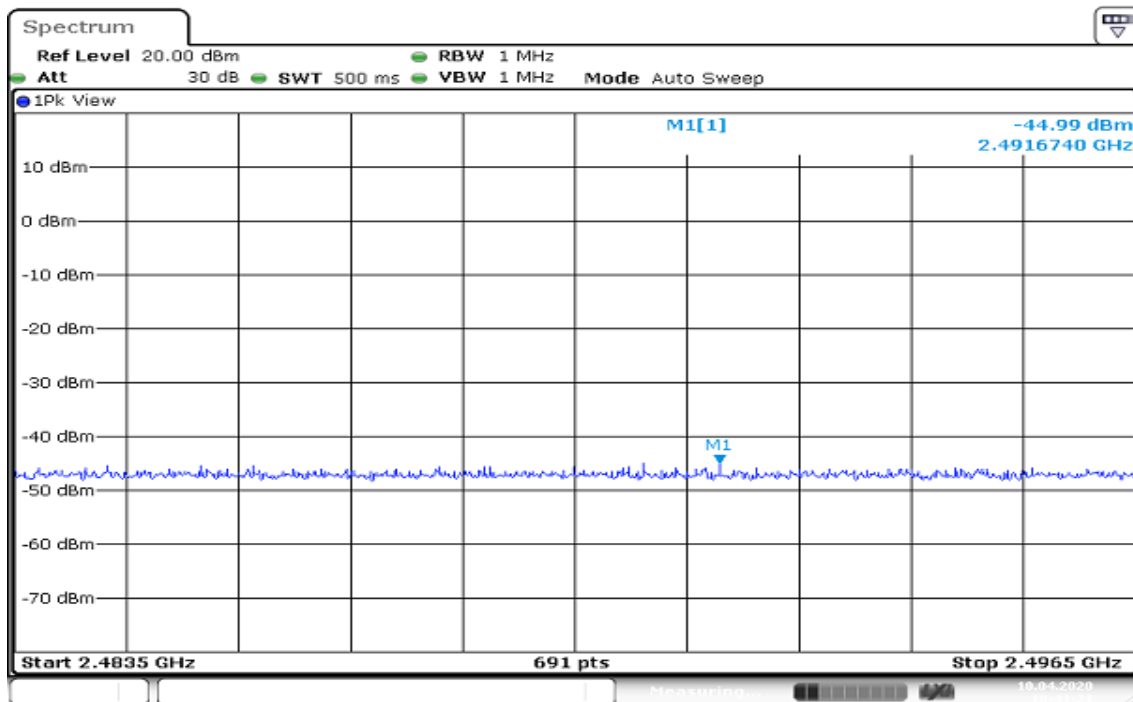


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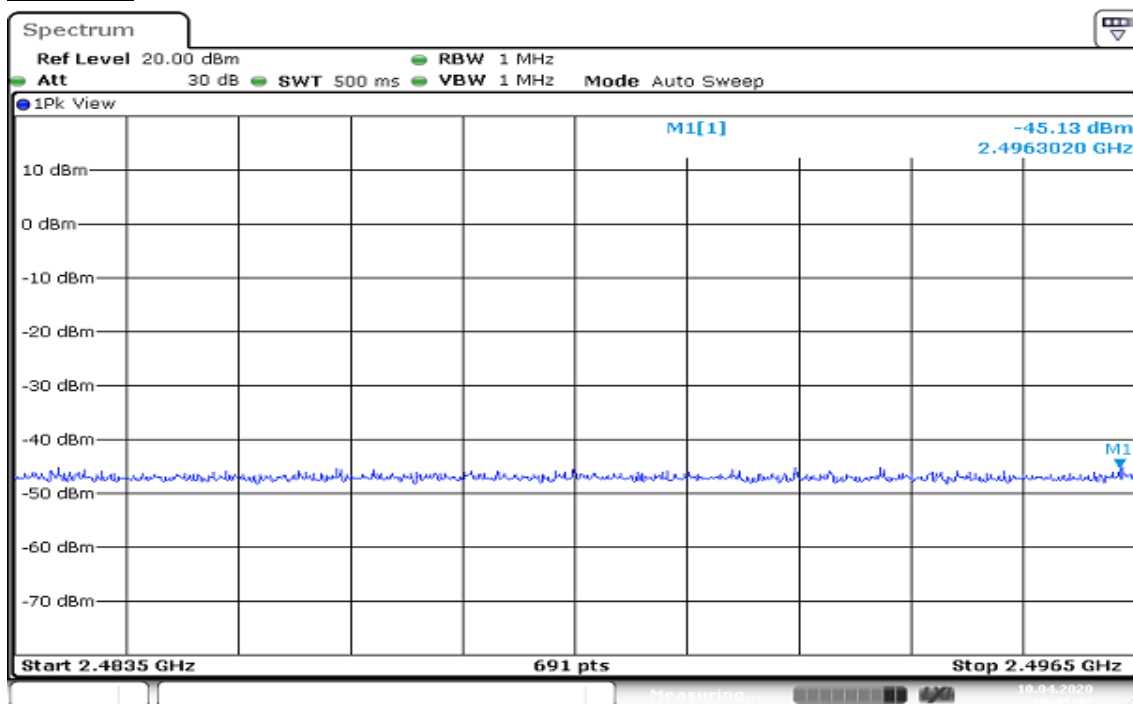
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CH High



TEST RESULT

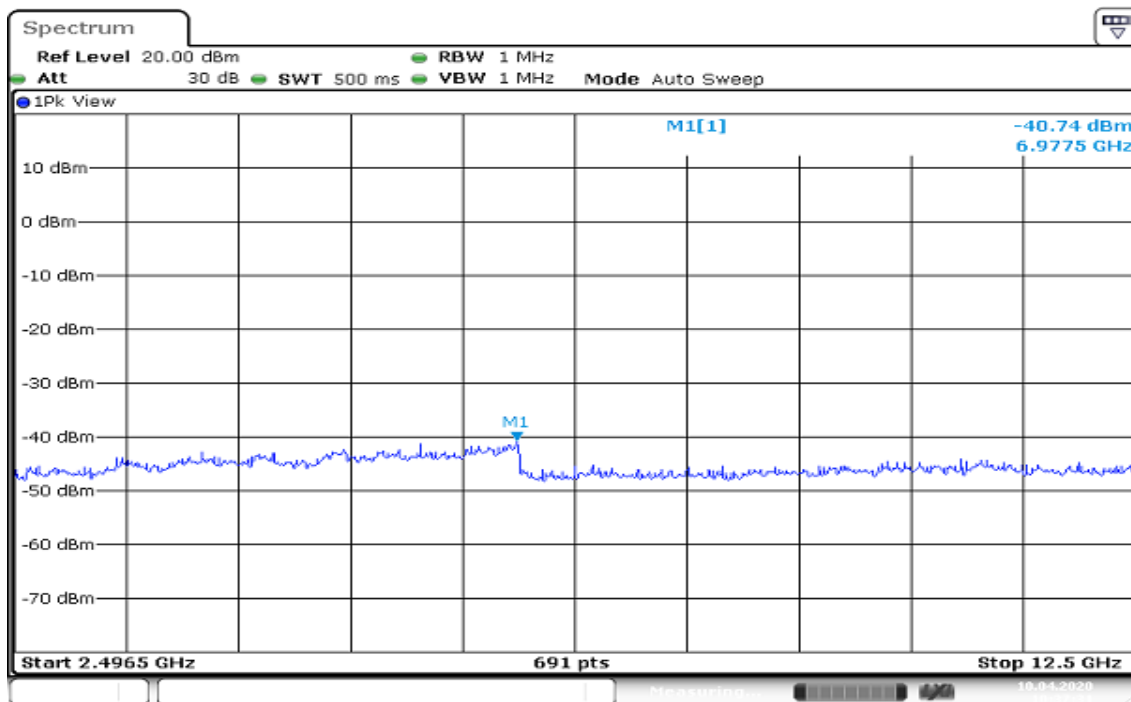
2496.5MHz~12.5GHz

(4) Spurious Emission Intensity : more than 2,496.5MHz~12.5GHz

Frequency (MHz)	Reading (MHz)	Reading (dBm)	Cable Factor (dB)	Result (μW/MHz)	Remark
2402.0000	6977.5000	-40.74	10.61	0.97051	Normal Voltage
2440.0000	6919.5000	-40.35	10.61	1.06170	
2480.0000	6977.5000	-40.96	10.61	0.92257	

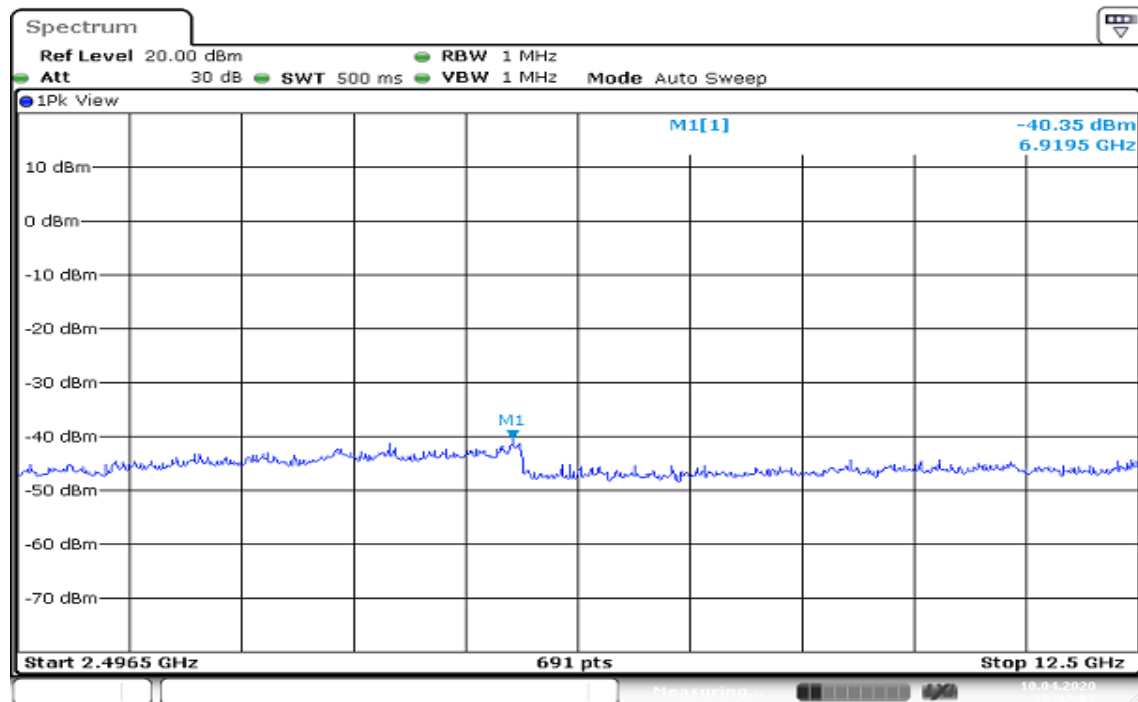
TEST PLOTS

CH Low



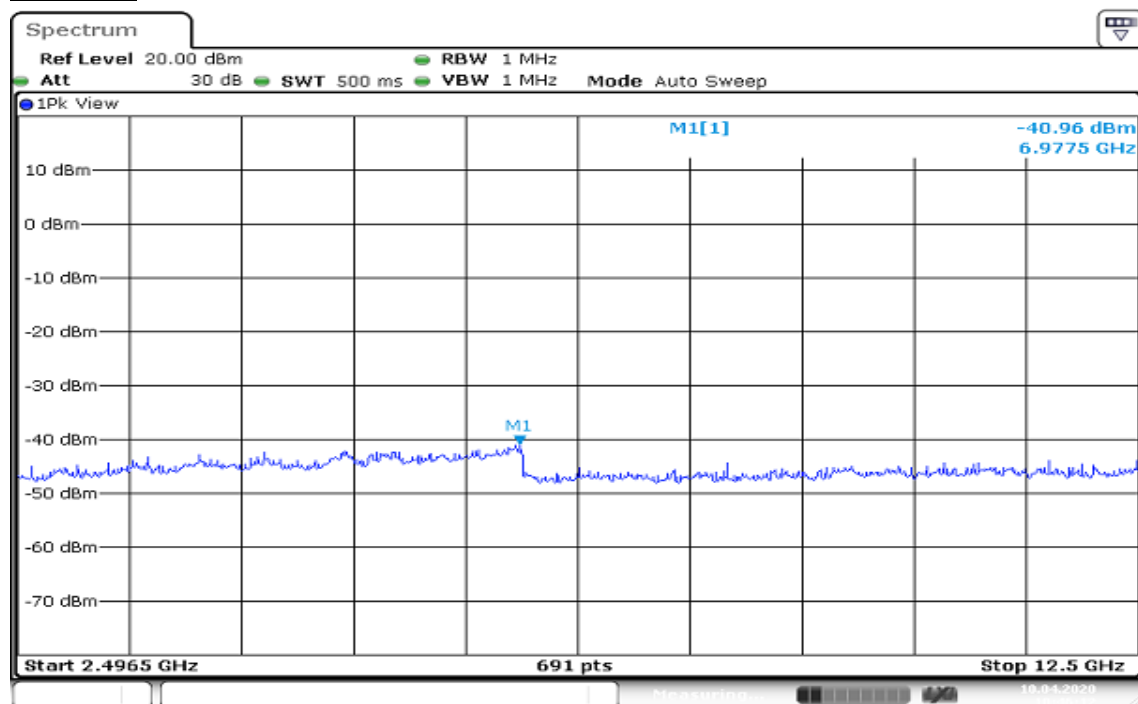
Date: 10.APR.2020 10:37:31

CH Mid



Date: 10.APR.2020 10:42:07

CH High



Date: 10.APR.2020 10:46:12

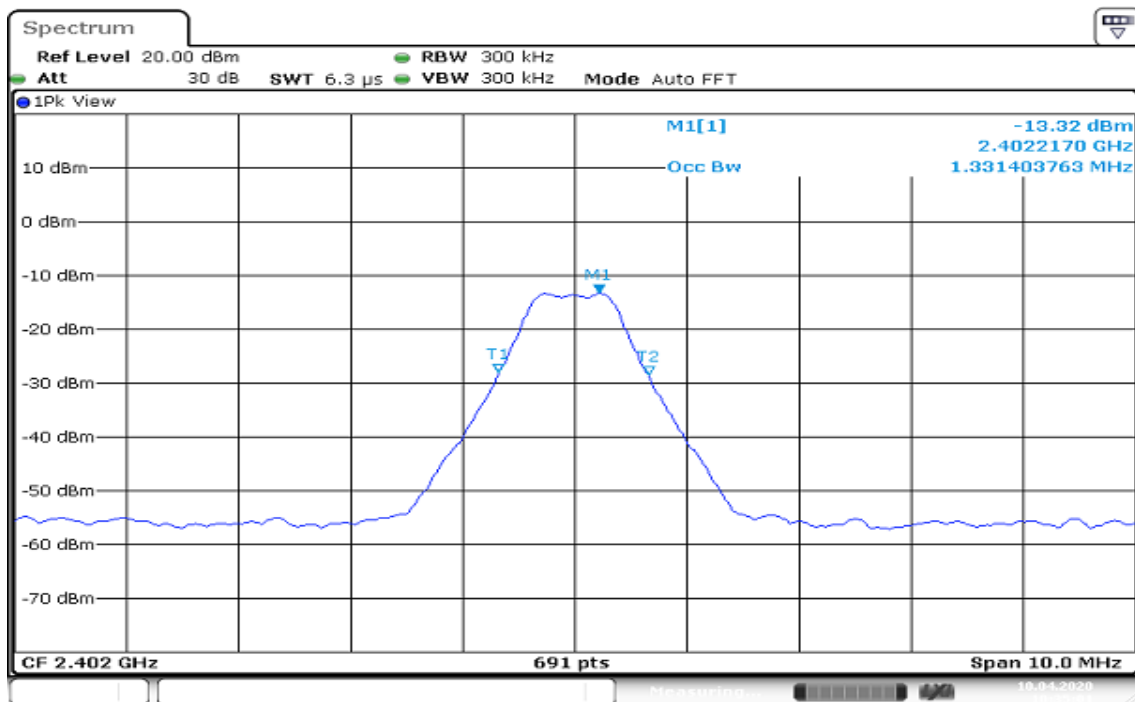
8.4 OCCUPIED BANDWIDTH (99%)

TEST RESULT

Frequency (MHz)	Center Frequency (MHz)	Bandwidth (MHz)	Remark
2402.0000	2402.00	1.33	Normal Voltage
2440.0000	2440.00	1.32	
2480.0000	2480.00	1.32	

TEST PLOTS

CH Low



Date: 10.APR.2020 10:35:02

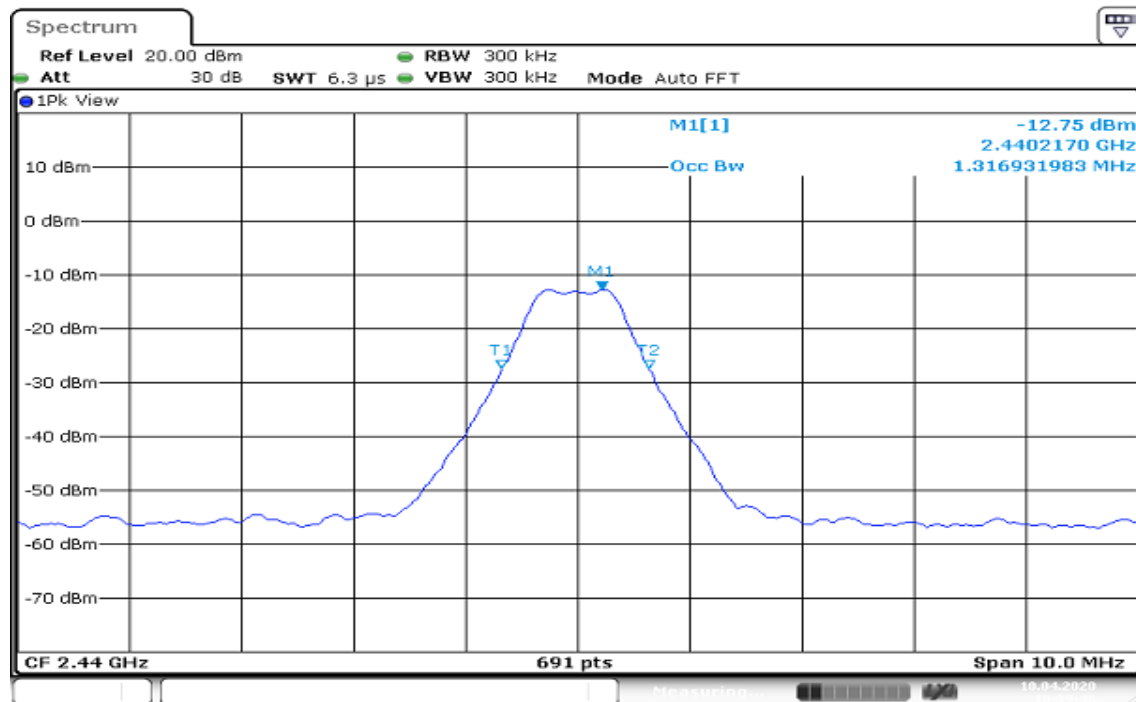


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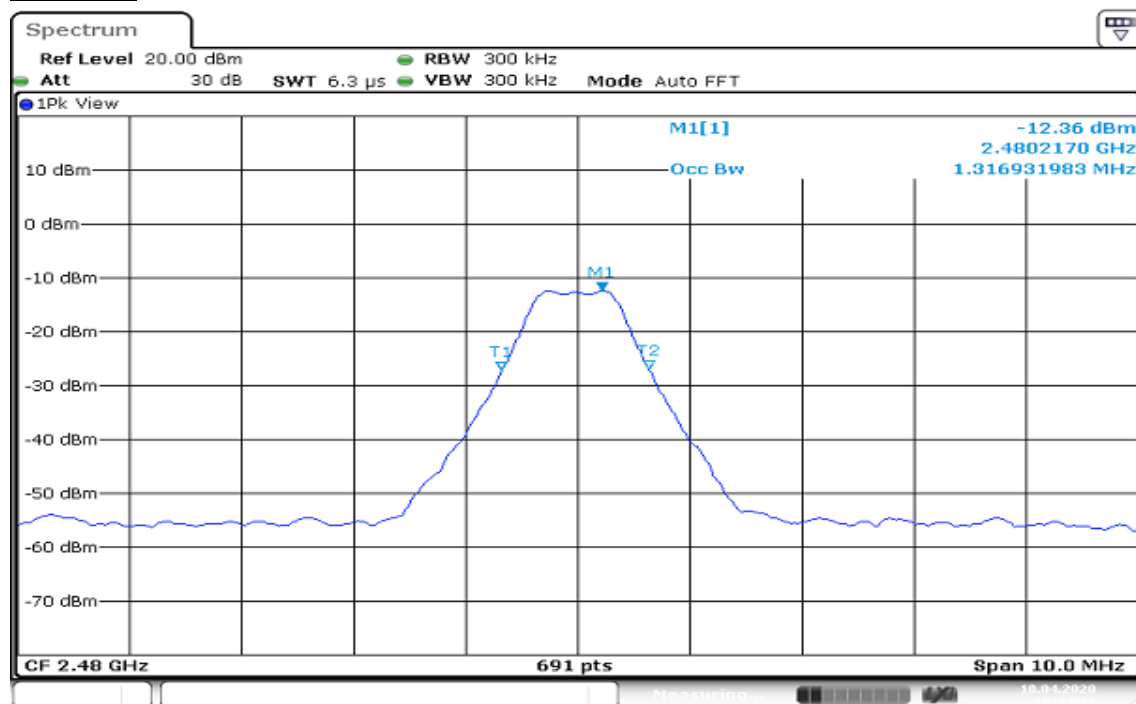
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CH Mid



Date: 10.APR.2020 10:39:47

CH High



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8.5 LIMITATION OF COLLATERAL EMISSIONS OF RECEIVER

TEST RESULT

30MHz~1000MHz|

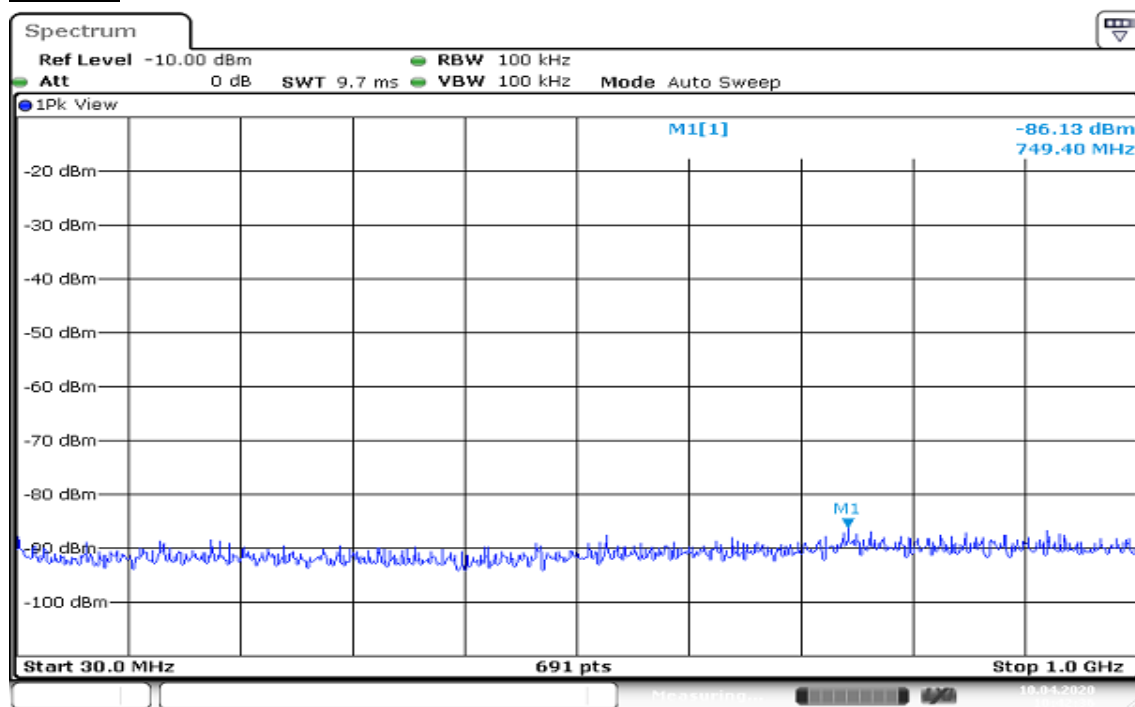
Freq: 30MHz~1GHz

Antenna 1

	Frequency (MHz)	Reading (dBm)	Cable Factor (dB)	Result (nW/MHz)	Remark
30MHz~less than 1GHz	749.4000	-86.13	10.92	0.0301	Normal Voltage

TEST PLOTS

CH Mid





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TEST RESULT

1GHz~12.5GHz

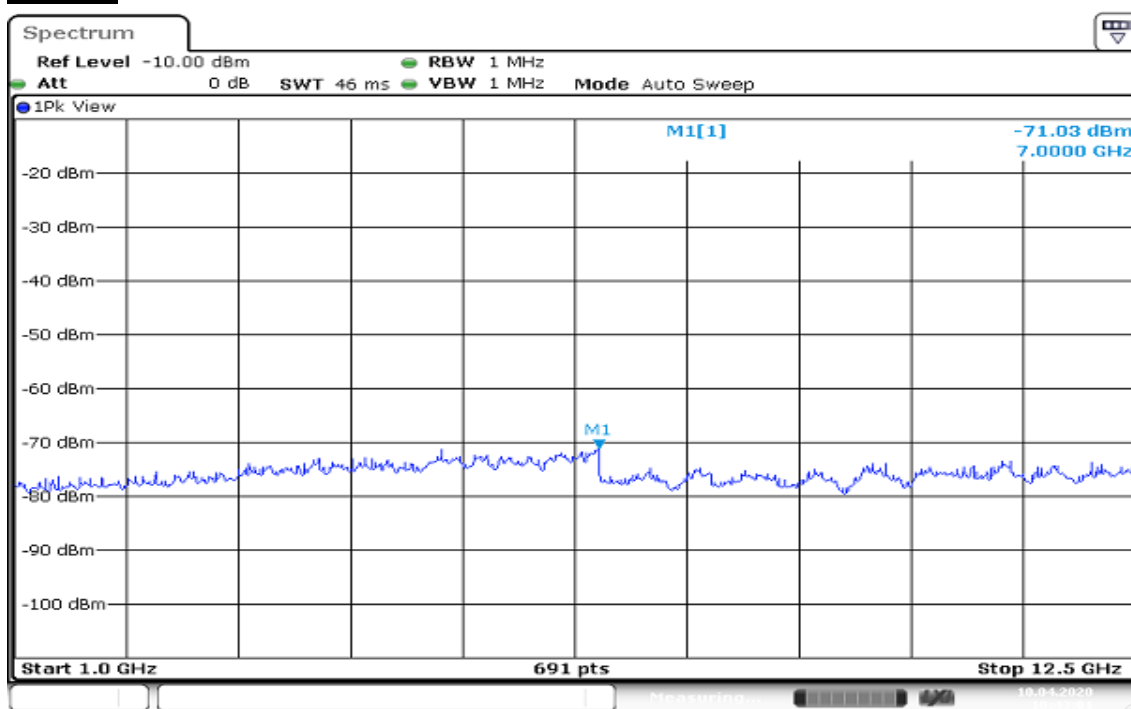
Freq: 1GHz~12.5GHz

Antenna 1

	Frequency (MHz)	Reading (dBm)	Cable Factor (dB)	Result (nW/MHz)	Remark
1GHz~12.5GHz	7000.0000	-71.03	10.61	0.9078	Normal Voltage

TEST PLOTS

CH Mid



Date: 10.APR.2020 10:43:02

- End of Test Report -