

TEST REPORT



Dt&C Co., Ltd.

42, Yurim-ro, 154Beon-gil, Cheoin-gu, Yongin-si, Gyeonggi-do, Korea, 17042
Tel : 031-321-2664, Fax : 031-321-1664

1. Report No : DRTFCC2403-0020

2. Customer

- Name (FCC) : DASAN Networks, Inc. / Name (IC) : DASAN Networks, Inc.
- Address (FCC) : DASAN Tower, 49, Daewangpangyo-ro644Beon-gil, Bundang-gu, Seongnam-si, South Korea 13493
- Address (IC) : DASAN Tower, 49, Daewangpangyo-ro644Beon-gil, Bundang-gu, Seongnam-si/Gyeonggi-do, 13493 Korea (Republic Of)

3. Use of Report : FCC & IC Certification

4. Product Name / Model Name : Telematics Gateway Unit / TGU (300611-02707)
FCC ID : 2AXDMTGU5GGLOBAL
IC : 26419-TGU5GGLOBAL

5. FCC Regulation(s): Part 15.247

IC Standard(s): RSS-247 Issue 3, RSS-Gen Issue 5

Test Method used: ANSI C63.10-2013, KDB558074 D01v05r02

6. Date of Test : 2024.01.02 ~ 2024.02.14

7. Location of Test : ☒ Permanent Testing Lab ☐ On Site Testing

8. Testing Environment : See appended test report.

9. Test Result : Refer to the attached test result.

The results shown in this test report refer only to the sample(s) tested unless otherwise stated.

This test report is not related to KOLAS accreditation.

Affirmation	Tested by	Technical Manager
	Name : SeungMin Gil 	Name : JaeJin Lee  (Signature)

2024 . 03 . 08 .

Dt&C Co., Ltd.

If this report is required to confirmation of authenticity, please contact to report@dtnc.net

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Test Report Version

Test Report No.	Date	Description	Revised by	Reviewed by
DRTFCC2403-0020	Mar, 08. 2024	Initial issue	SeungMin Gil	JaeJin Lee

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1. General Information

1.1. Description of EUT

Equipment Class	Digital Transmission System (DTS)
Product Name	Telematics Gateway Unit
Model Name	TGU (300611-02707)
Add Model Name	-
Firmware Version Identification Number	V0.03
EUT Serial Number	No specified
Power Supply	DC 12, 24 V
Frequency Range	2 402 MHz ~ 2 480 MHz
Max. RF Output Power	3.73 dBm
Modulation Technique (Data rate)	GFSK (125 kbps, 500 kbps, 1 Mbps, 2 Mbps)
Antenna Specification	Antenna Type: Stubby Antenna, Gain: 3.9 dBi (PK)

1.2. Declaration by the applicant / manufacturer

N/A

1.3. Testing Laboratory

Dt&C Co., Ltd.		
The 3 m test site and conducted measurement facility used to collect the radiated data are located at the 42, Yurim-ro, 154beon-gil, Cheoin-gu, Yongin-si, Gyeonggi-do, Korea 17042.		
The test site complies with the requirements of Part 2.948 according to ANSI C63.4-2014.		
- FCC & IC MRA Designation No. : KR0034		
- ISED#: 5740A		
www.dtnc.net		
Telephone	:	+ 82-31-321-2664
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1.4. Testing Environment

Ambient Condition	
▪ Temperature	+21 °C ~ +24 °C
▪ Relative Humidity	+40 % ~ +43 %

1.5. Measurement Uncertainty

The measurement uncertainties shown below were calculated in accordance with requirements of ANSI C63.4-2014 and ANSI C63.10-2013. All measurement uncertainty values are shown with a coverage factor of $k = 2$ to indicate a 95 % level of confidence.

Parameter	Measurement uncertainty
Antenna-port conducted emission	1.0 dB (The confidence level is about 95 %, $k = 2$)
Radiated emission (1 GHz Below)	5.0 dB (The confidence level is about 95 %, $k = 2$)
Radiated emission (1 GHz ~ 18 GHz)	4.8 dB (The confidence level is about 95 %, $k = 2$)
Radiated emission (18 GHz Above)	4.9 dB (The confidence level is about 95 %, $k = 2$)

1.6. Test Equipment List

Type	Manufacturer	Model	Cal.Date (yy/mm/dd)	Next.Cal.Date (yy/mm/dd)	S/N
Spectrum Analyzer	Agilent Technologies	N9020A	23/06/23	24/06/23	MY46471622
Spectrum Analyzer	Agilent Technologies	N9020A	23/12/15	24/12/15	MY48011700
Spectrum Analyzer	Agilent Technologies	N9020A	23/06/23	24/06/23	US47360812
DC Power Supply	H.P	6633A	23/12/15	24/12/15	3524A06634
DC Power Supply	SM techno	SDP30-5D	23/06/23	24/06/23	305DMG288
Multimeter	FLUKE	17B+	23/12/15	24/12/15	36390701WS
Signal Generator	Rohde Schwarz	SMBV100A	23/12/15	24/12/15	255571
Signal Generator	ANRITSU	MG3695C	23/12/15	24/12/15	173501
Thermohygrometer	BODYCOM	BJ5478	23/12/15	24/12/15	120612-1
Thermohygrometer	BODYCOM	BJ5478	23/12/15	24/12/15	120612-2
Thermohygrometer	BODYCOM	BJ5478	23/06/23	24/06/23	N/A
Loop Antenna	ETS-Lindgren	6502	23/11/09	24/11/09	00060496
Hybrid Antenna	Schwarzbeck	VULB 9160	23/12/15	24/12/15	3362
Horn Antenna	ETS-Lindgren	3117	23/06/23	24/06/23	00143278
Horn Antenna	A.H.Systems Inc.	SAS-574	23/06/23	24/06/23	155
PreAmplifier	tsj	MLA-0118-B01-40	23/12/15	24/12/15	1852267
PreAmplifier	tsj	MLA-1840-J02-45	23/06/23	24/06/23	16966-10728
PreAmplifier	H.P	8447D	23/12/15	24/12/15	2944A07774
High Pass Filter	Wainwright Instruments	WHKX12-935-1000-15000-40SS	23/06/23	24/06/23	8
High Pass Filter	Wainwright Instruments	WHKX10-2838-3300-18000-60SS	23/06/23	24/06/23	1
High Pass Filter	Wainwright Instruments	WHNX8.0/26.5-6SS	23/06/23	24/06/23	3
Attenuator	Hefei Shunze	SS5T2.92-10-40	23/06/23	24/06/23	16012202
Attenuator	Aeroflex/Weinschel	56-3	23/06/23	24/06/23	Y2370
Attenuator	SMAJK	SMAJK-2-3	23/06/23	24/06/23	3
Attenuator	SMAJK	SMAJK-2-3	23/06/23	24/06/23	2
Attenuator	Aeroflex/Weinschel	86-10-11	23/06/23	24/06/23	408
Power Meter & Wide Bandwidth Sensor	Anritsu	ML2496A MA2411B	23/12/15	24/12/15	1338004 1911481
Cable	Dt&C	Cable	24/01/03	25/01/03	G-2
Cable	HUBER+SUHNER	SUCOFLEX 100	24/01/03	25/01/03	G-3
Cable	Dt&C	Cable	24/01/03	25/01/03	G-4
Cable	OMT	YSS21S	24/01/03	25/01/03	G-5
Cable	Junkosha	MWX241	24/01/03	25/01/03	mmW-1
Cable	Junkosha	MWX241	24/01/03	25/01/03	mmW-4
Cable	HUBER+SUHNER	SUCOFLEX100	24/01/03	25/01/03	M-01
Cable	HUBER+SUHNER	SUCOFLEX100	24/01/03	25/01/03	M-02
Cable	JUNKOSHA	MWX241/B	24/01/03	25/01/03	M-03
Cable	JUNKOSHA	J12J101757-00	24/01/03	25/01/03	M-07
Cable	HUBER+SUHNER	SUCOFLEX106	24/01/03	25/01/03	M-09
Cable	Radiall	TESTPRO3	24/01/03	25/01/03	RFC-70
Test Software (Radiated)	tsj	EMI Measurement	NA	NA	Version 2.00.0185

Note1: The measurement antennas were calibrated in accordance to the requirements of ANSI C63.5-2017.

Note2: The cable is not a regular calibration item, so it has been calibrated by Dt&C itself.

2. Test Methodology

The measurement procedures described in the ANSI C63.10-2013 and the guidance provided in KDB558074 D01v05r02 were used in measurement of the EUT.

The EUT was tested per the guidance of KDB558074 D01v05r02. And ANSI C63.10-2013 was used to reference appropriate EUT setup and maximizing procedures of radiated spurious emission and AC line conducted emission testing.

2.1. EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner that intends to maximize its emission characteristics in a continuous normal application.

2.2. EUT Exercise

The EUT was operated in the test mode to fix the TX frequency that was for the purpose of the measurements. According to its specifications, the EUT must comply with the requirements of the Section 15.207, 15.209 and 15.247 under the FCC Rules Part 15 Subpart C.

2.3. General Test Procedures

Conducted Emissions

The power-line conducted emission test procedure is not described on the KDB558074 D01v05r02.

So this test was fulfilled with the requirements in Section 6.2 of ANSI C63.10-2013.

The EUT is placed on the wooden table, which is 0.8 m above ground plane and the conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-peak and Average detector.

Radiated Emissions

Basically the radiated tests were performed with KDB558074 D01v05r02. But some requirements and procedures like test site requirements, EUT setup and maximizing procedure were fulfilled with the requirements in Section 5 and 6 of the ANSI C63.10-2013 as stated on section 12.1 of the KDB558074 D01v05r02.

The EUT is placed on a non-conductive table. For emission measurements at or below 1 GHz, the table height is 80 cm. For emission measurements above 1 GHz, the table height is 1.5 m. The turntable shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3 m away from the receiving antenna, which varied from 1 m to 4 m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.

2.4. Instrument Calibration

The measuring equipment, which was utilized in performing the tests documented herein, has been calibrated in accordance with the manufacturer's recommendations for utilizing calibration equipment, which is traceable to recognized national standards.

2.5. Description of Test Modes

The EUT has been tested with the operating condition for maximizing the emission characteristics. A test program is used to control the EUT for staying in continuous transmitting. The Bluetooth low energy mode with below low, middle and high channels were tested and reported.

Test Mode	Description	Tested Frequency (MHz)		
		Lowest Frequency	Middle Frequency	Highest Frequency
TM 1	1 Mbps	2 402	2 440	2 480
TM 2	2 Mbps	2 402	2 440	2 480
TM 3	500 kbps: Coded S=2	2 402	2 440	2 480
TM 4	125 kbps: Coded S=8	2 402	2 440	2 480

EUT Operation test setup

- Test Software: EBTerminal_v13b
- Power setting: Default of EUT

3. Antenna Requirements

■ According to Part 15.203

“An intentional radiator antenna shall be designed to ensure that no antenna other than that furnished by the responsible party can 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.”

This device is professionally installed.

Therefore this E.U.T complies with the requirement of Part 15.203

4. Summary of Test Results

FCC part section(s)	RSS section(s)	Test Description	Limit	Test Condition	Status Note 1
15.247(a)	RSS-247[5.2]	6 dB Bandwidth	> 500 kHz	Conducted	C
15.247(b)	RSS-247[5.4]	Maximum Peak Output Power	< 1 Watt (conducted), FCC & IC < 4 Watt (e.i.r.p), IC		C
15.247(d)	RSS-247[5.5]	Unwanted Emissions(Conducted)	20 dBc in any 100 kHz BW		C
15.247(e)	RSS-247[5.2]	Power Spectral Density	< 8 dBm / 3 kHz		C
-	RSS-Gen[6.7]	Occupied Bandwidth (99 %)	NA		C
15.247(d) 15.205 15.209	RSS-247[5.5] RSS-Gen[8.9] RSS-Gen[8.10]	Unwanted Emissions(Radiated)	Part 15.209 limits (Refer to section 5.5)	Radiated	C Note 3
15.207	RSS-Gen [8.8]	AC Power-Line Conducted Emissions	Part 15.207 limits (Refer to section 5.6)	AC Line Conducted	NA Note 4
15.203	-	Antenna Requirements	Part 15.203 (Refer to section 3)	-	C
Note 1: C=Comply NC=Not Comply NT=Not Tested NA=Not Applicable Note 2: For radiated emission tests below 30 MHz were performed on semi-anechoic chamber which is correlated with OATS. Note 3: This test item was performed in three orthogonal EUT positions and the worst case data was reported. Note 4: This device is installed in a car. Therefore the power source is a battery of car.					

5. Test Result

5.1. Maximum Peak Conducted Output Power

■ Test Requirements and limit, Part 15.247(b) & RSS-247 [5.4]

A transmitter antenna terminal of EUT is connected to the input of a spectrum analyzer.

Measurement is made while the EUT is operating in transmission mode at the appropriate frequencies.

The maximum permissible conducted output power is 1 Watt.

The e.i.r.p. shall not exceed 4 W, except as provided in section 5.4(e) of RSS-247.

5.1.1. Test Setup

Refer to the APPENDIX I.

5.1.2. Test Procedures

- KDB558074 D01v05r02 - Section 8.3.1.1
- ANSI C63.10-2013 – Section 11.9.1.1

RBW $\geq$ DTS bandwidth

1. Set the RBW $\geq$ DTS bandwidth. **Actual RBW = 2 MHz or 2.4 MHz**
2. Set VBW $\geq 3 \times$ RBW. **Actual VBW = 6 MHz or 8 MHz**
3. Set span $\geq 3 \times$ RBW.
4. Sweep time = **auto couple**
5. Detector = **peak**
6. Trace mode = **max hold**
7. Allow trace to fully stabilize
8. Use peak marker function to determine the peak amplitude level.

5.1.3. Test Results

Test Mode	Tested Channel	Burst Average Output Power (dBm)	Peak Conducted Output Power (dBm)	Antenna Gain(dBi)	e.i.r.p ^{Note3} (dBm)
TM 1	Lowest	3.19	3.46	3.90	7.36
	Middle	3.49	3.72	3.90	7.62
	Highest	3.49	3.68	3.90	7.58
TM 2	Lowest	3.15	3.46	3.90	7.36
	Middle	3.48	3.73	3.90	7.63
	Highest	3.48	3.66	3.90	7.56
TM 3	Lowest	3.18	3.34	3.90	7.24
	Middle	3.48	3.57	3.90	7.47
	Highest	3.48	3.50	3.90	7.40
TM 4	Lowest	3.18	3.41	3.90	7.31
	Middle	3.48	3.63	3.90	7.53
	Highest	3.47	3.59	3.90	7.49

Note 1: The average output power was tested using an average power meter for reference only.

Note 2: See next pages for actual measured spectrum plots.

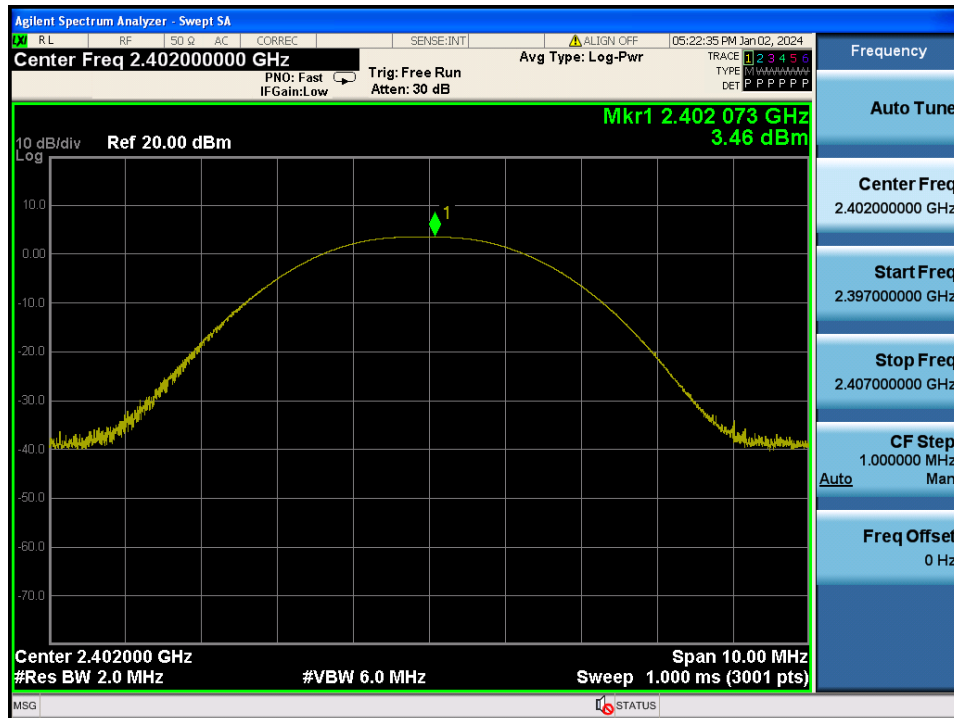
Note 3: $e.i.r.p = P_{cond} + G_{EUT}$

P_{cond} = measured power at feedpoint of the EUT antenna, in dBm (Peak Conducted Output Power)

G_{EUT} = gain of the EUT radiating element (antenna), in dBi

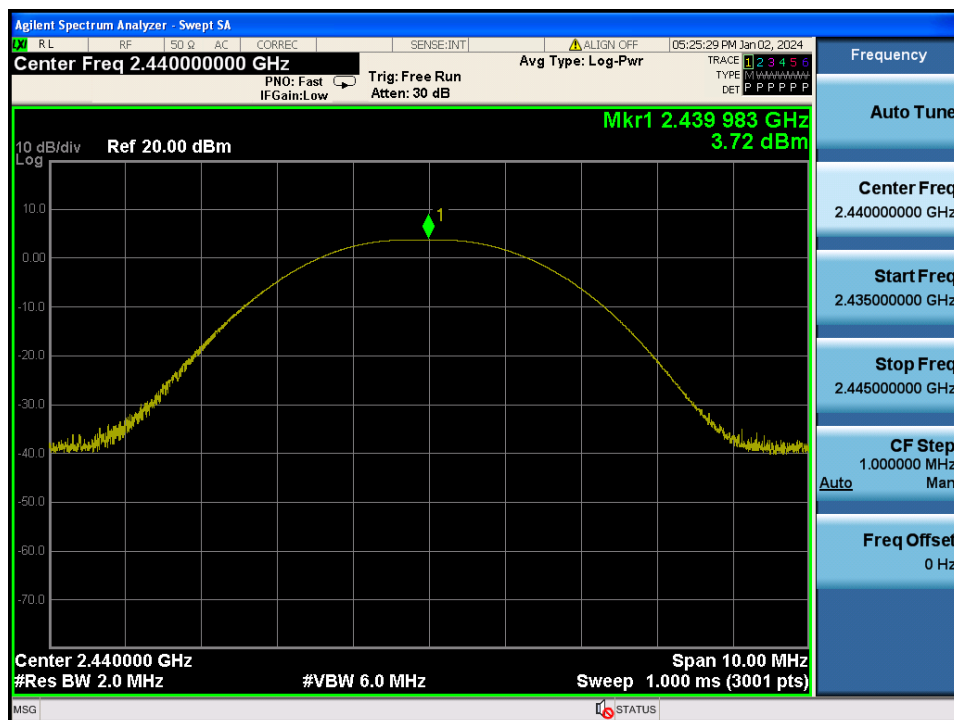
Peak Output Power

TM 1 Test Channel : Lowest



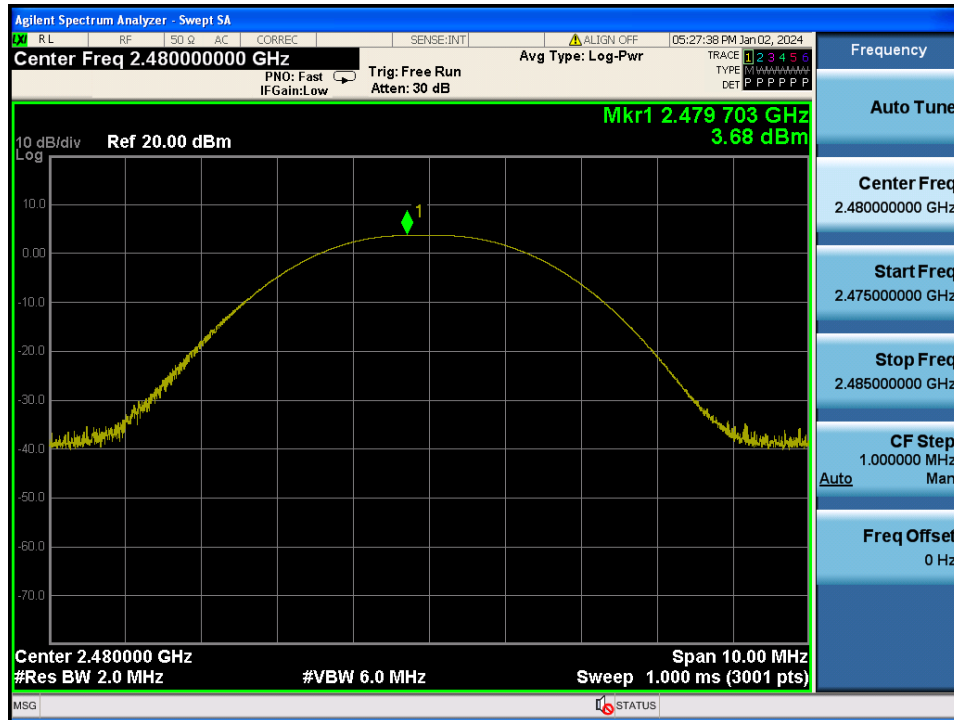
Peak Output Power

TM 1 Test Channel : Middle



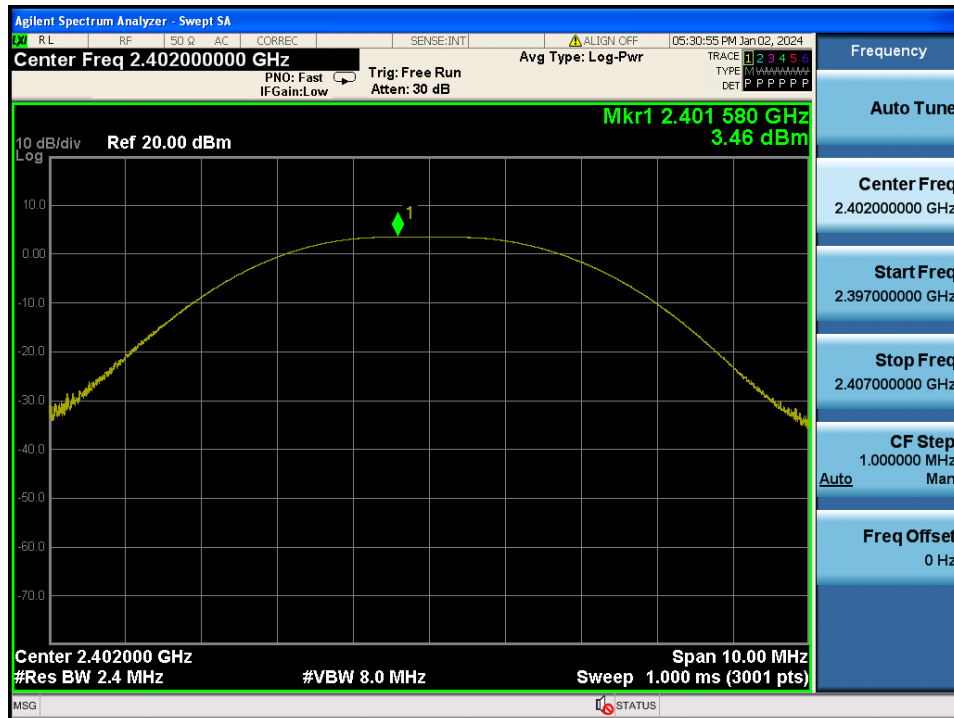
Peak Output Power

TM 1 Test Channel : Highest



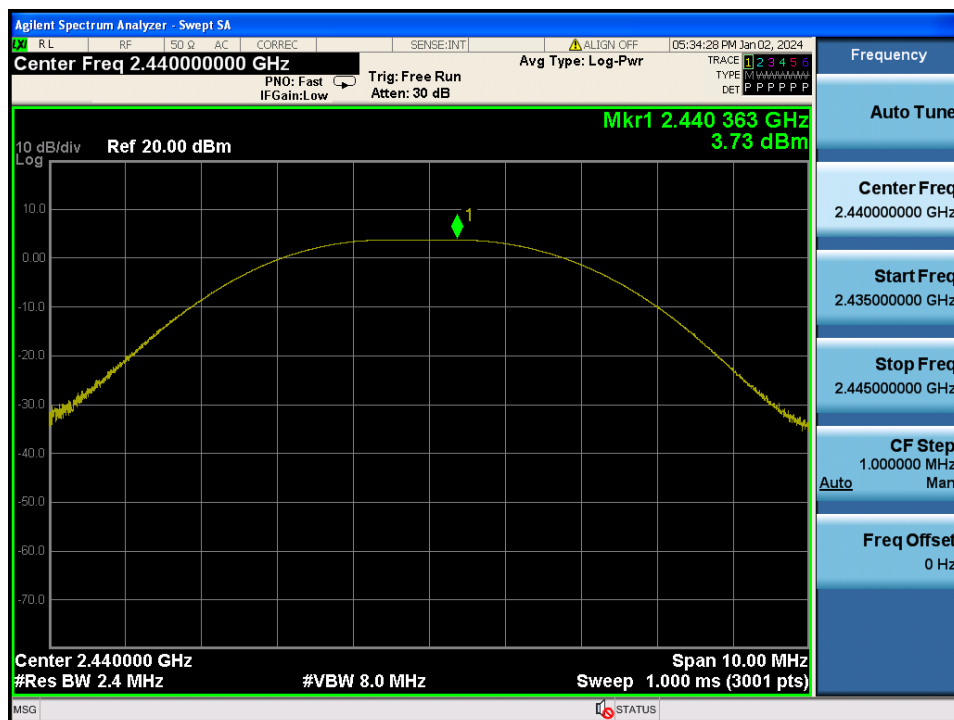
Peak Output Power

TM 2 Test Channel : Lowest



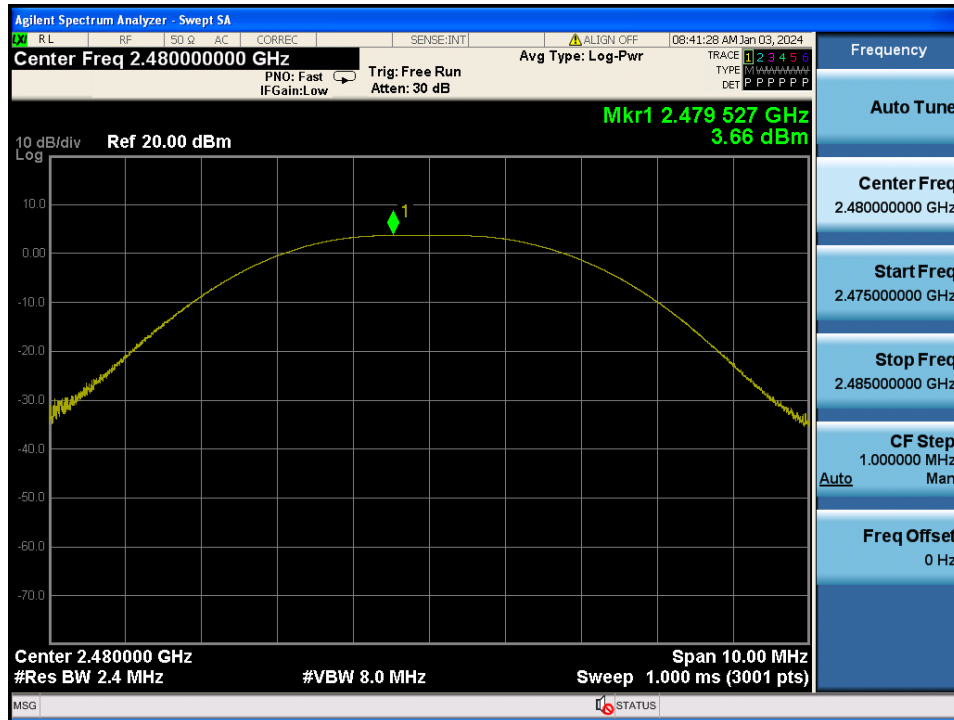
Peak Output Power

TM 2 Test Channel : Middle



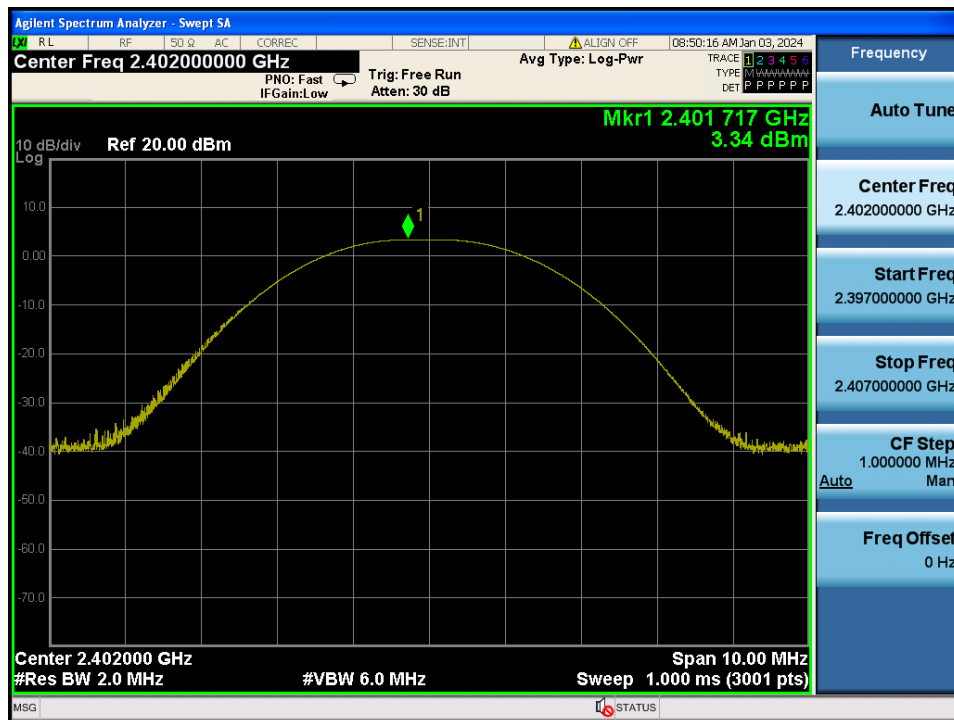
Peak Output Power

TM 2 Test Channel : Highest



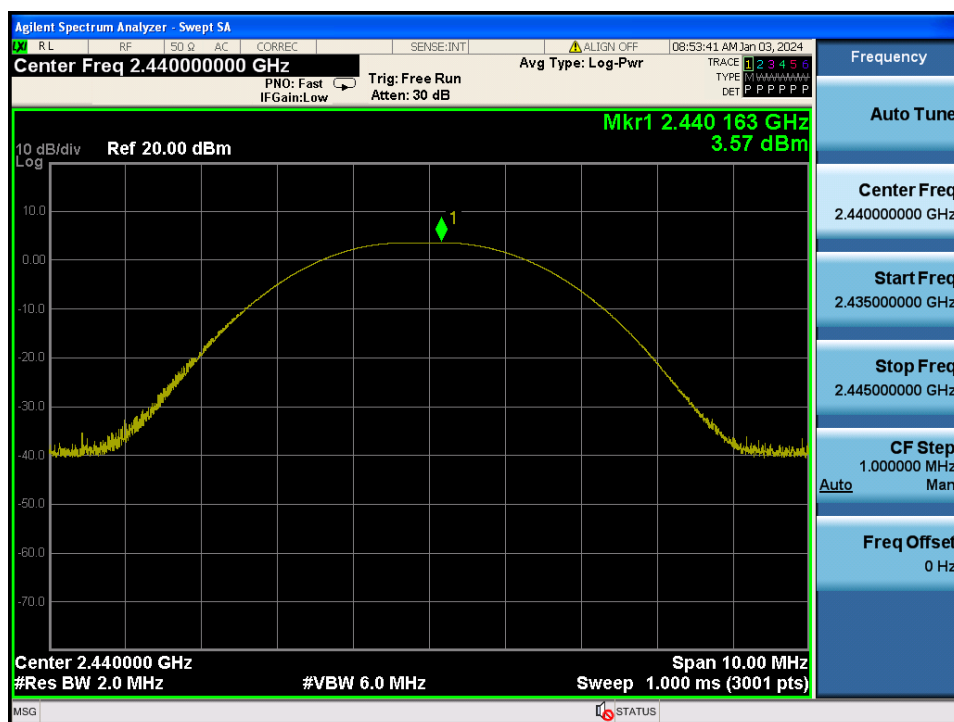
Peak Output Power

TM 3 Test Channel : Lowest



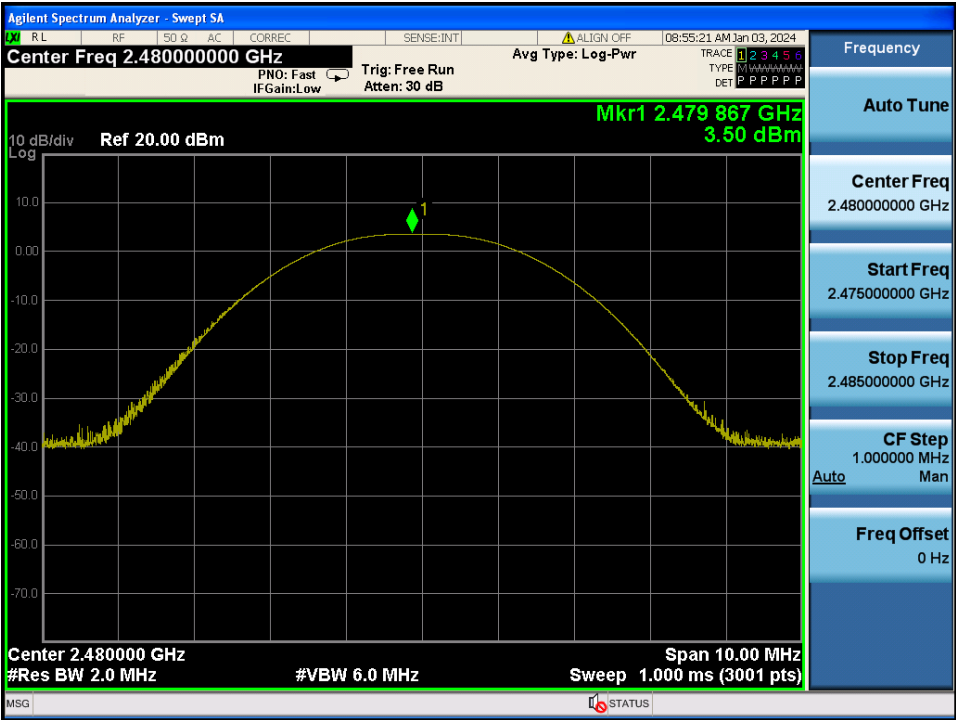
Peak Output Power

TM 3 Test Channel : Middle



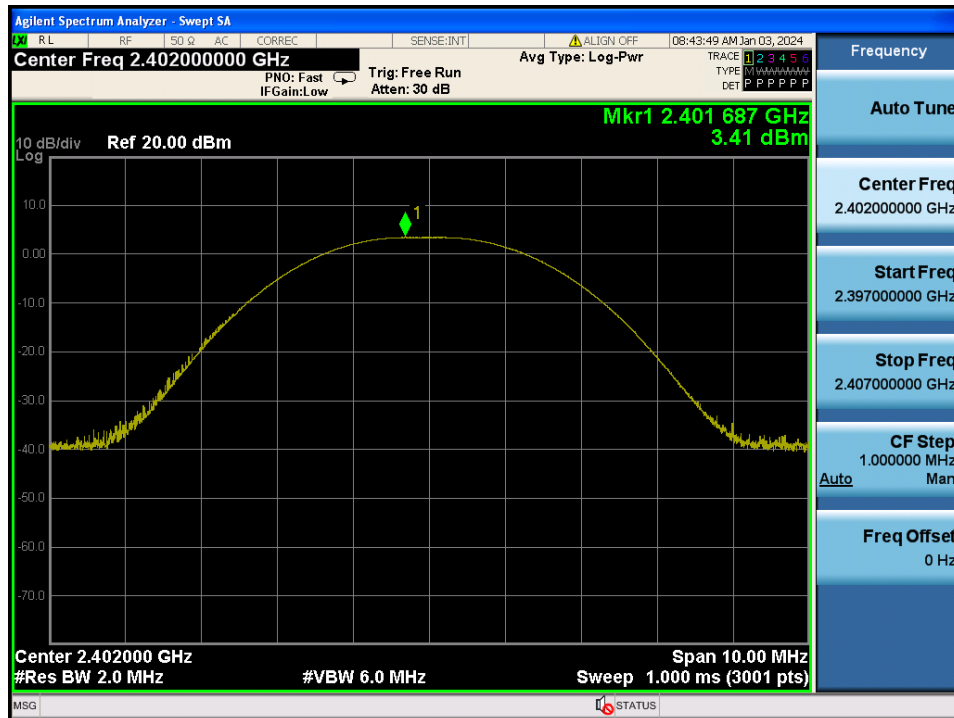
Peak Output Power

TM 3 Test Channel : Highest



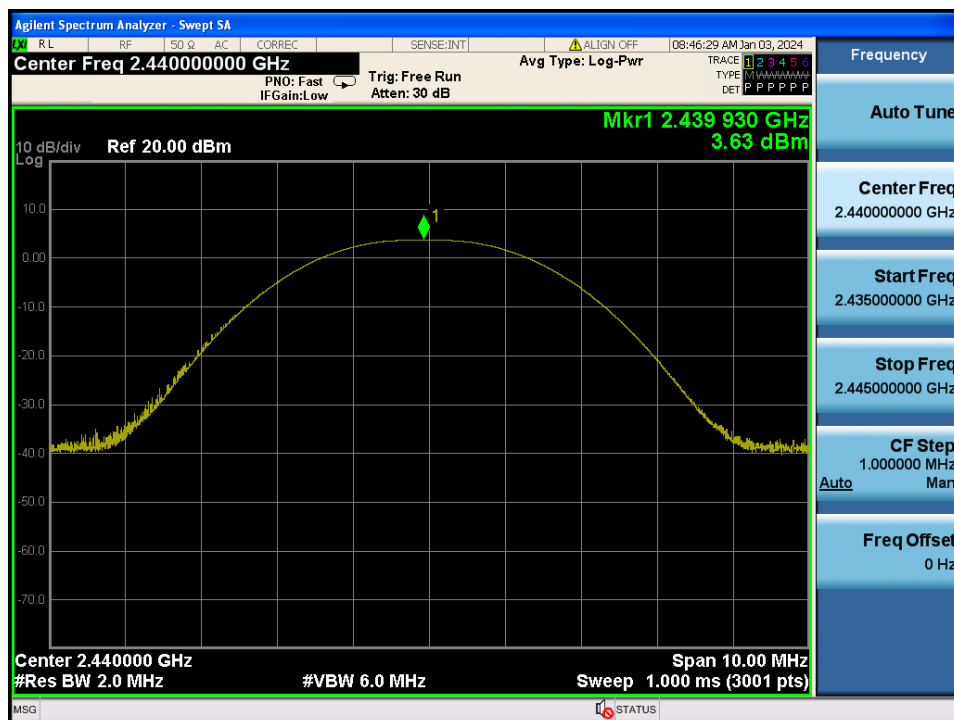
Peak Output Power

TM 4 Test Channel : Lowest



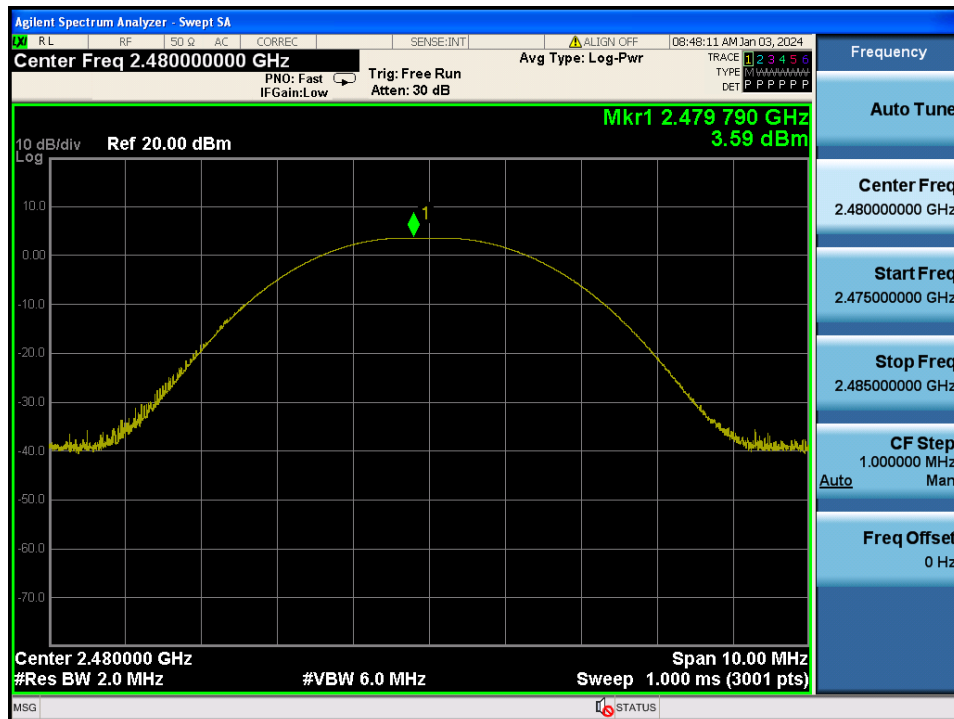
Peak Output Power

TM 4 Test Channel : Middle



Peak Output Power

TM 4 Test Channel : Highest



5.2. 6 dB Bandwidth

■ Test Requirements and limit, Part 15.247(a) & RSS-247 [5.2]

The bandwidth at 6 dB down from the highest in-band spectral density is measured with a spectrum analyzer connected to the EUT's antenna terminal while the EUT is operating in transmission mode at the appropriate frequencies.

The minimum permissible 6 dB bandwidth is 500 kHz.

5.2.1. Test Setup

Refer to the APPENDIX I.

5.2.2. Test Procedures

- KDB558074 D01v05r02 - Section 8.2
- ANSI C63.10-2013 – Section 11.8.2

1. Set resolution bandwidth (RBW) = 100 kHz
2. Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
3. Detector = **Peak**.
4. Trace mode = **max hold**.
5. Sweep = **auto couple**.
6. Allow the trace to stabilize.
7. Option 1 - Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

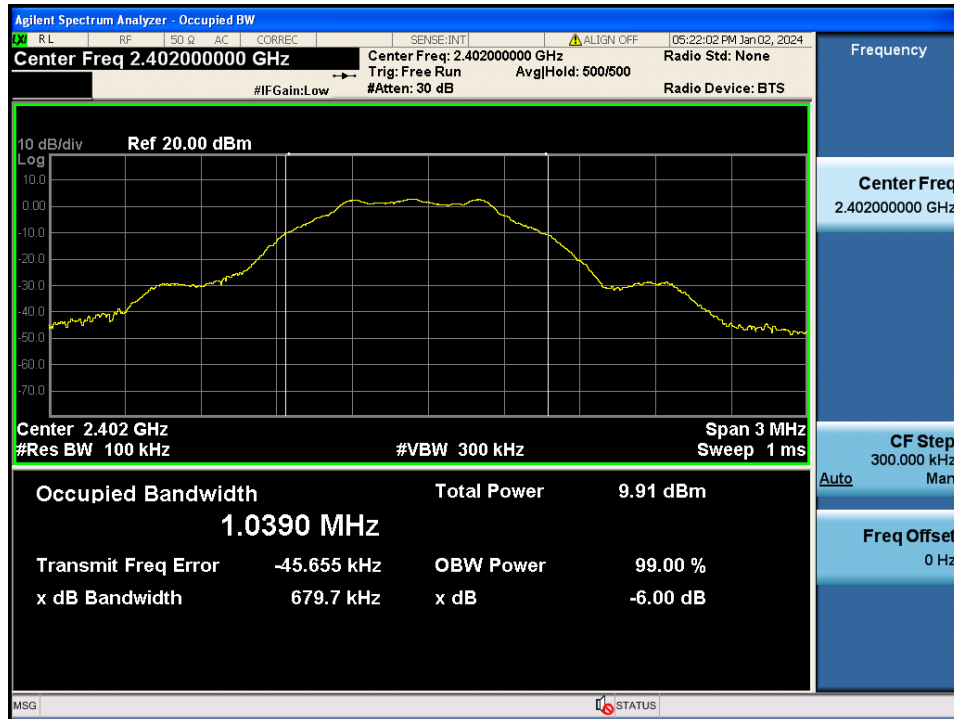
Option 2 - The automatic bandwidth measurement capability of an instrument may be employed using the X dB bandwidth mode with X set to 6 dB, if the functionality described above (i.e., RBW = 100 kHz, VBW $\geq 3 \times$ RBW, peak detector with maximum hold) is implemented by the instrumentation function. When using this capability, care shall be taken so that the bandwidth measurement is not influenced by any intermediate power nulls in the fundamental emission that might be ≥ 6 dB.

5.2.3. Test Results

Test Mode	Tested Channel	Test Results (MHz)
TM 1	Lowest	0.680
	Middle	0.685
	Highest	0.687
TM 2	Lowest	1.178
	Middle	1.181
	Highest	1.177
TM 3	Lowest	0.666
	Middle	0.662
	Highest	0.664
TM 4	Lowest	0.647
	Middle	0.639
	Highest	0.640

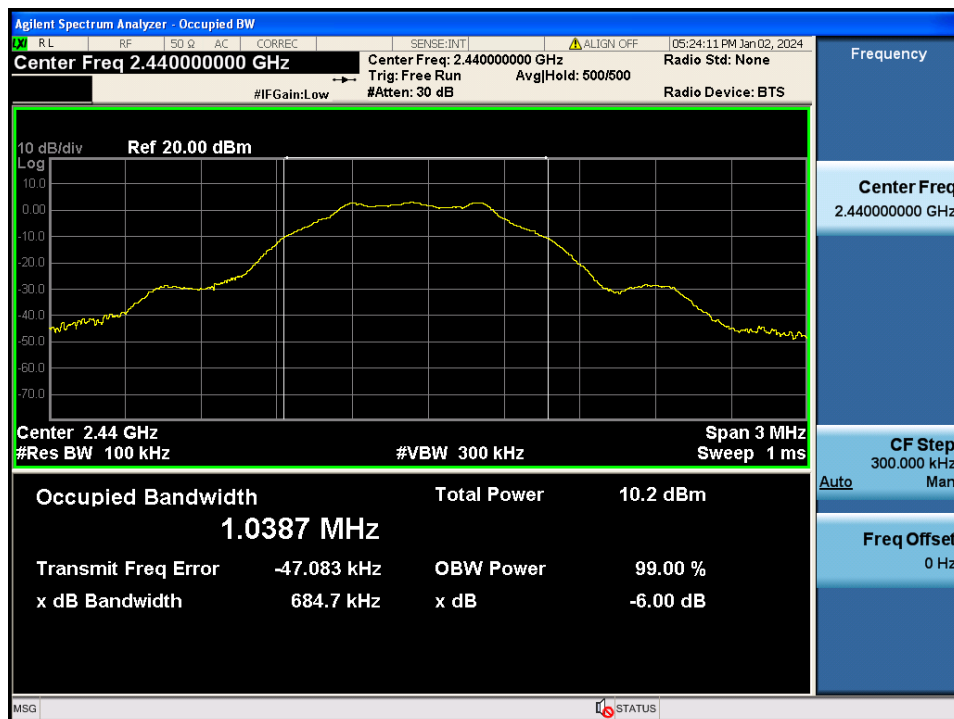
6 dB Bandwidth

TM 1 Test Channel : Lowest



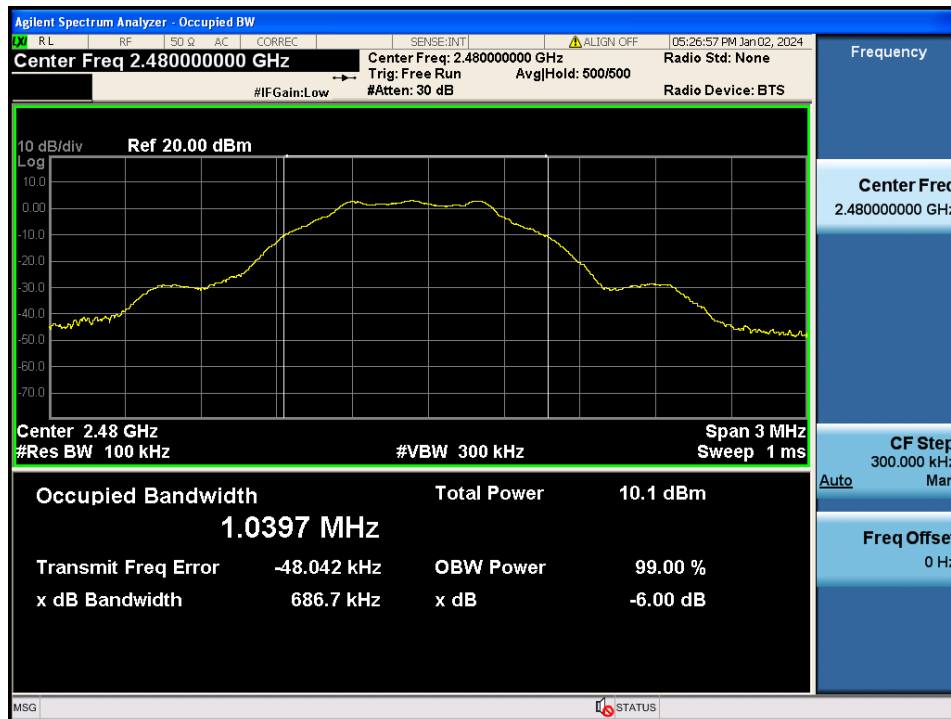
6 dB Bandwidth

TM 1 Test Channel : Middle



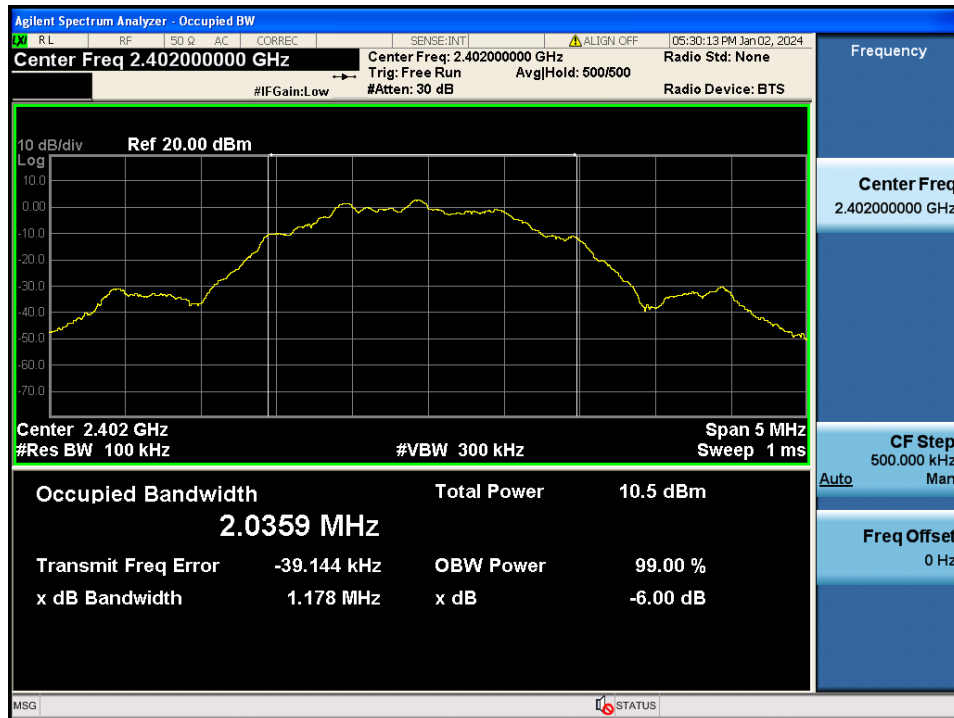
6 dB Bandwidth

TM 1 Test Channel : Highest



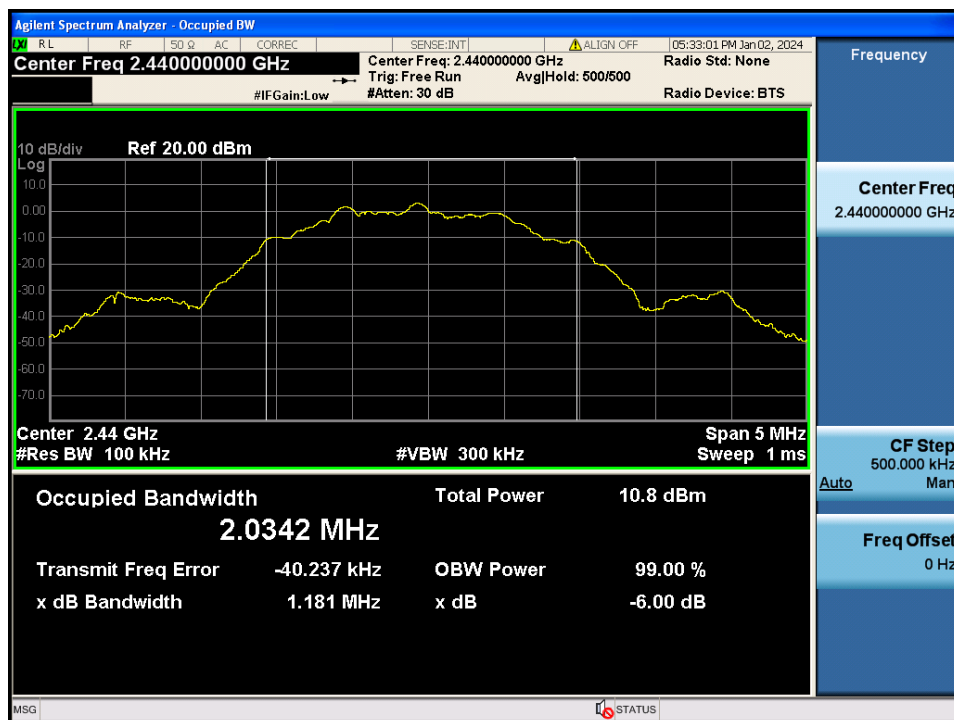
6 dB Bandwidth

TM 2 Test Channel : Lowest



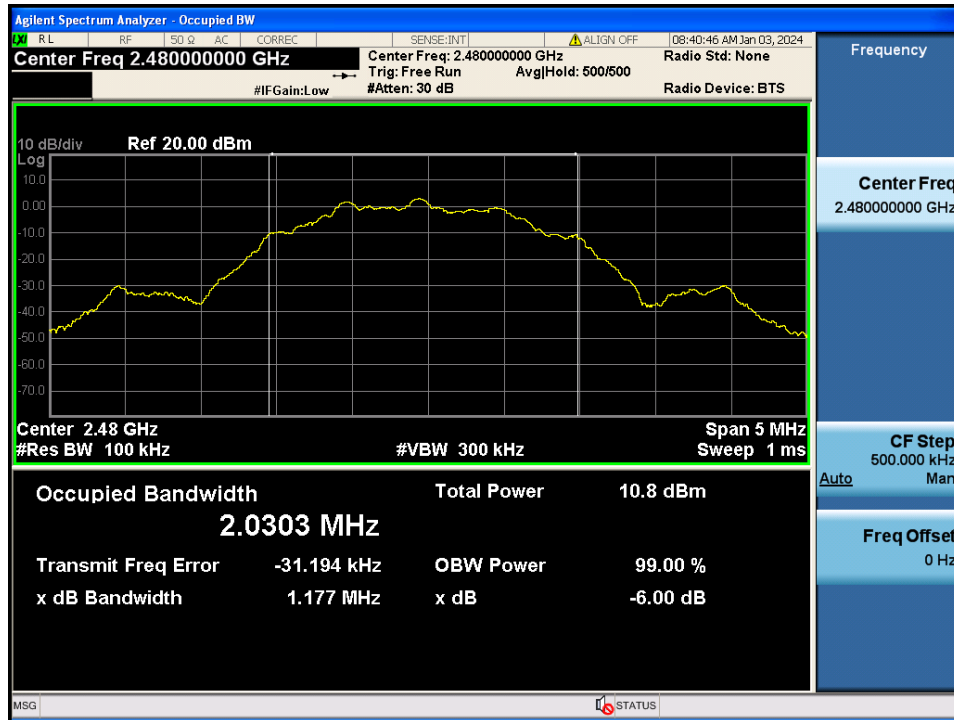
6 dB Bandwidth

TM 2 Test Channel : Middle



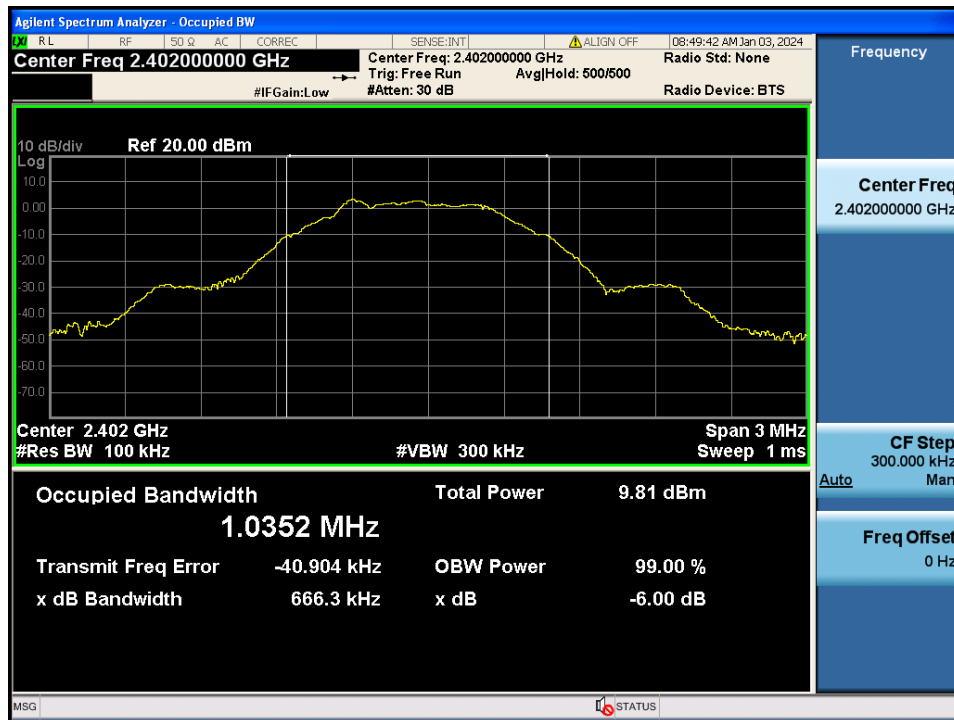
6 dB Bandwidth

TM 2 Test Channel : Highest



6 dB Bandwidth

TM 3 Test Channel : Lowest



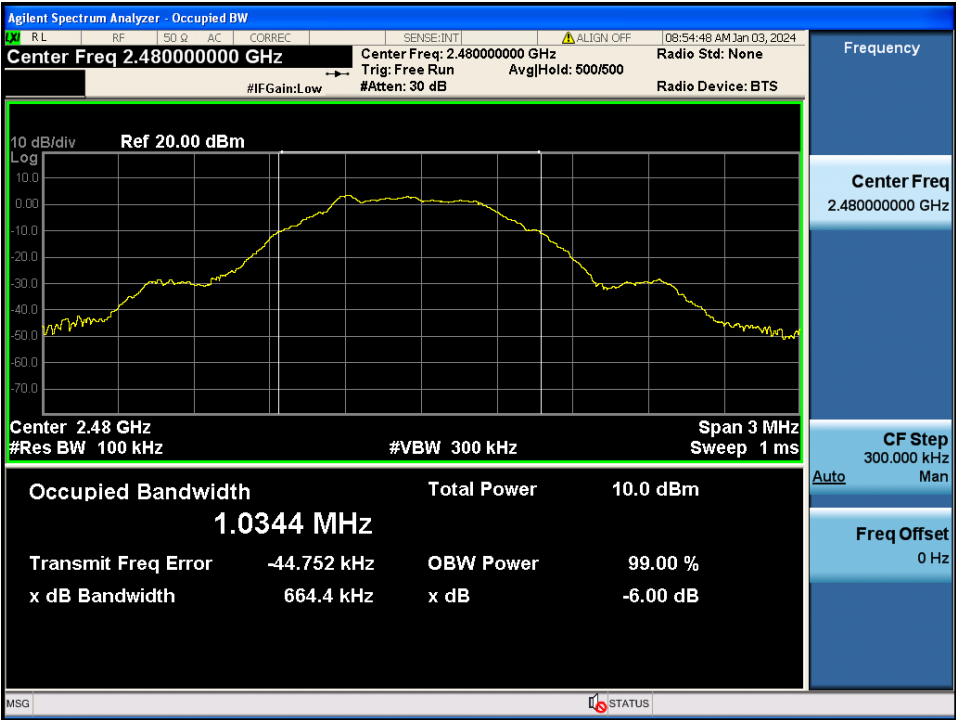
6 dB Bandwidth

TM 3 Test Channel : Middle



6 dB Bandwidth

TM 3 Test Channel : Highest



6 dB Bandwidth

TM 4 Test Channel : Lowest



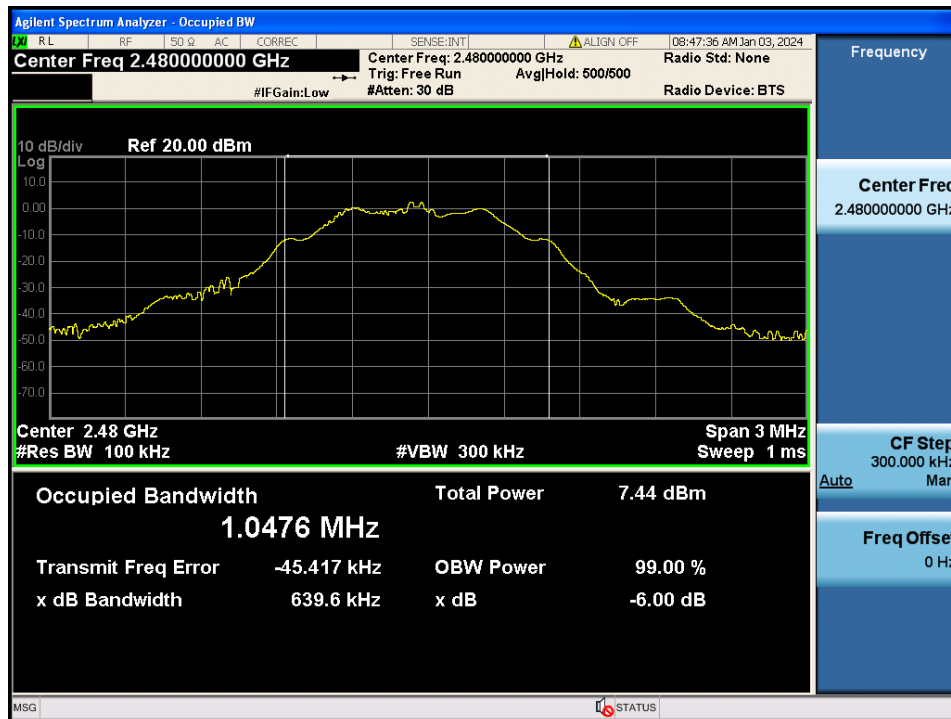
6 dB Bandwidth

TM 4 Test Channel : Middle



6 dB Bandwidth

TM 4 Test Channel : Highest



5.3. Power Spectral Density

■ Test requirements and limit, Part 15.247(e) & RSS-247 [5.2]

The peak power density is measured with a spectrum analyzer connected to the antenna terminal while the EUT is operating in transmission mode at the appropriate frequencies.

The power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

5.3.1. Test Setup

Refer to the APPENDIX I.

5.3.2. Test Procedures

- KDB558074 D01v05r02 - Section 8.4
- ANSI C63.10-2013 – Section 11.10.2

Method PKPSD (peak PSD)

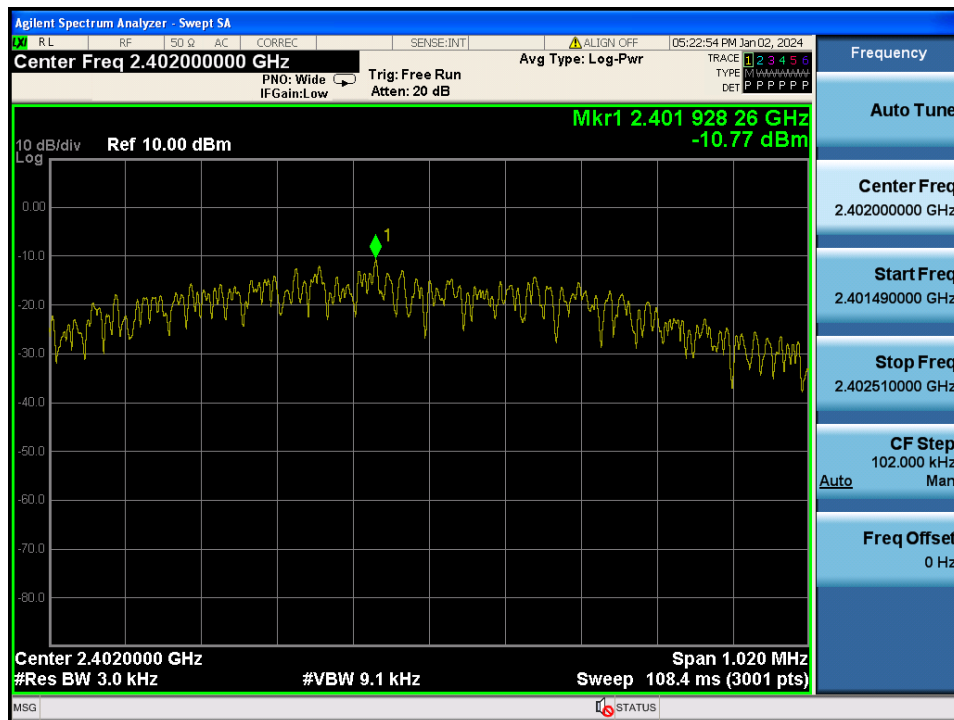
1. Set analyzer center frequency to DTS channel center frequency.
2. Set the span to **1.5 times** the DTS bandwidth.
3. Set the RBW : **3 kHz ≤ RBW ≤ 100 kHz**.
4. Set the VBW ≥ **3 x RBW**.
5. Detector = **peak**.
6. Sweep time = **auto couple**.
7. Trace mode = **max hold**.
8. Allow trace to fully stabilize.
9. Use the **peak marker function** to determine the maximum amplitude level within the RBW.
10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

5.3.3. Test Results

Test Mode	Tested Channel	RBW	PKPSD (dBm)	Limit (dBm / 3 kHz)
TM 1	Lowest	3 kHz	-10.77	8.00
	Middle	3 kHz	-10.49	8.00
	Highest	3 kHz	-10.54	8.00
TM 2	Lowest	3 kHz	-12.81	8.00
	Middle	3 kHz	-12.54	8.00
	Highest	3 kHz	-12.57	8.00
TM 3	Lowest	3 kHz	-2.83	8.00
	Middle	3 kHz	-2.58	8.00
	Highest	3 kHz	-2.75	8.00
TM 4	Lowest	3 kHz	-2.63	8.00
	Middle	3 kHz	-2.37	8.00
	Highest	3 kHz	-2.39	8.00

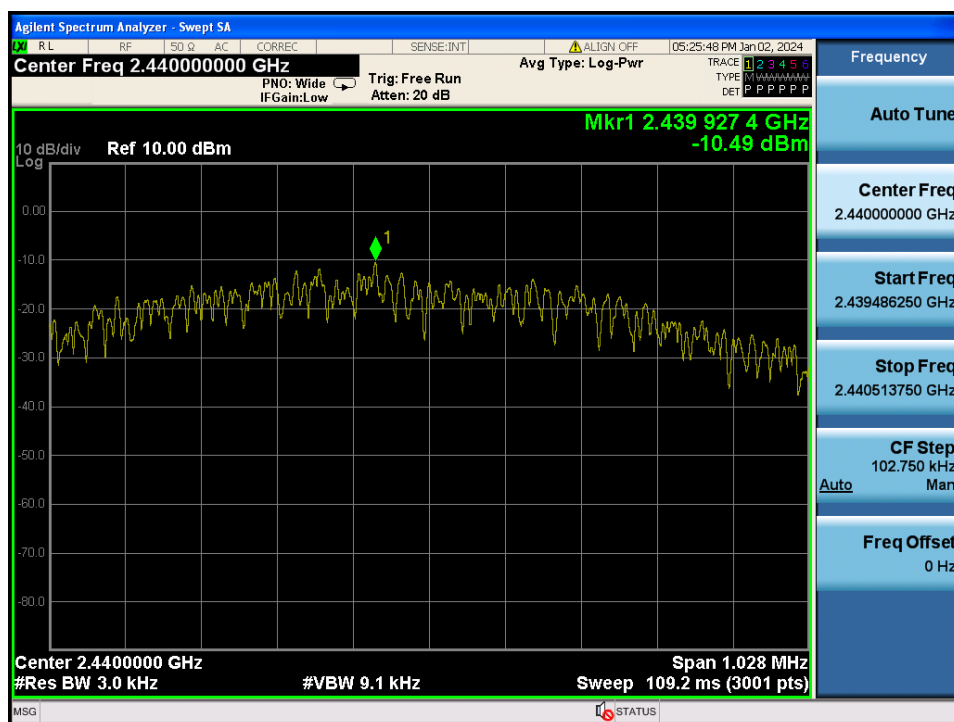
Maximum PKPSD

TM 1 Test Channel : Lowest



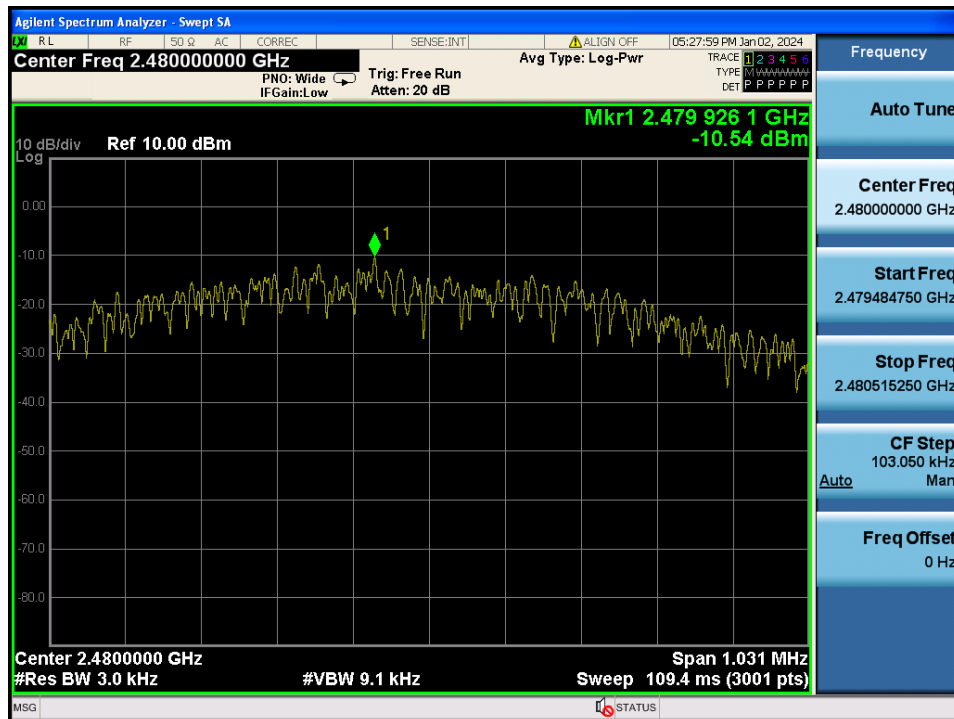
Maximum PKPSD

TM 1 Test Channel : Middle



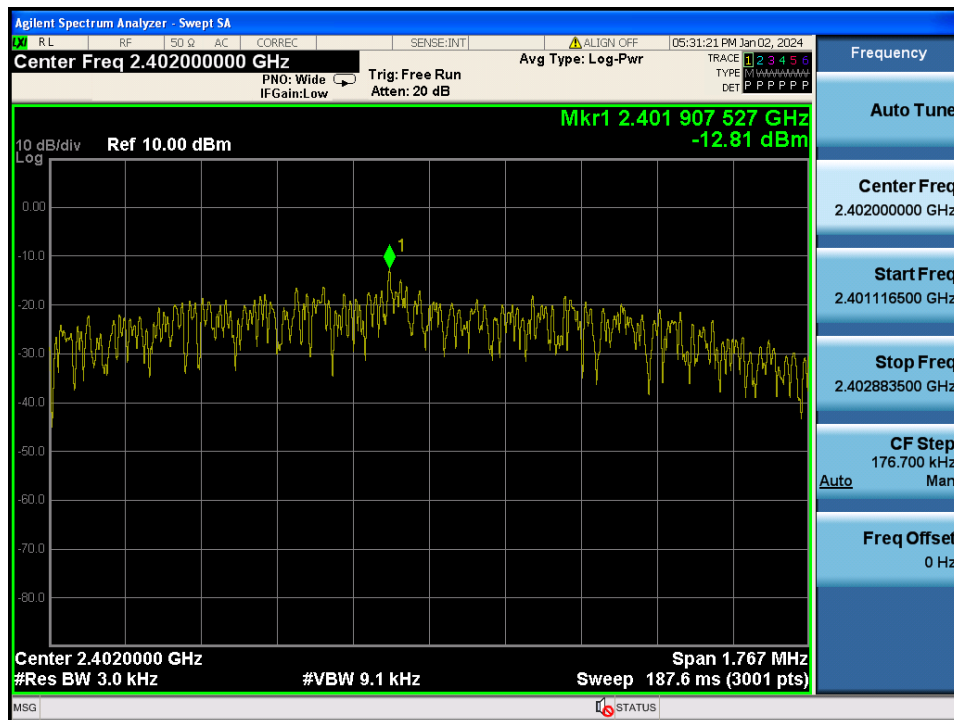
Maximum PKPSD

TM 1 Test Channel : Highest



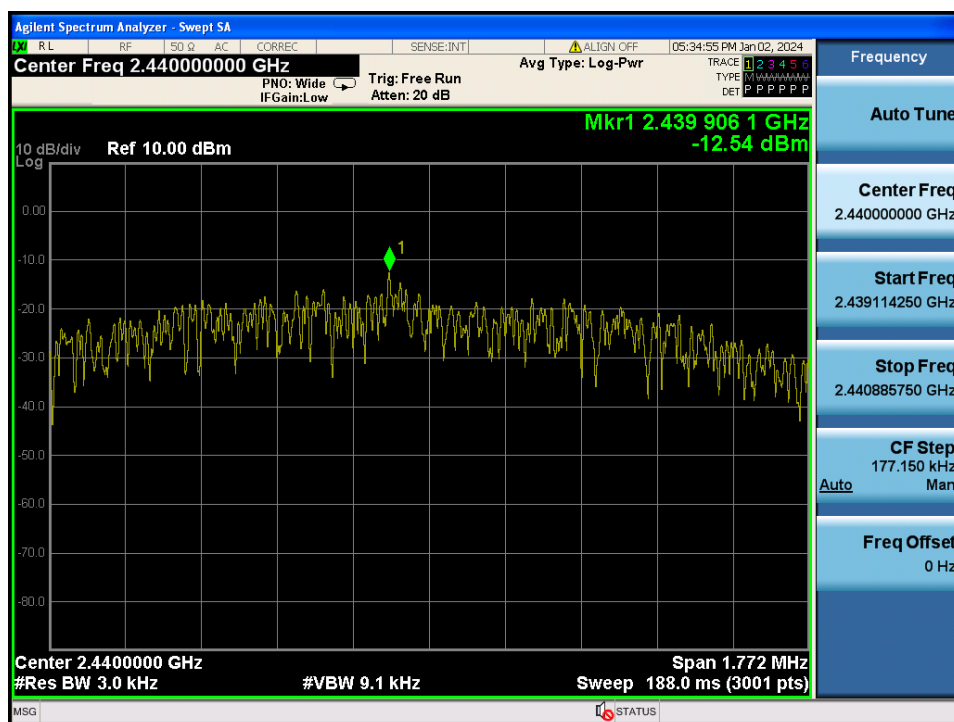
Maximum PKPSD

TM 2 Test Channel : Lowest



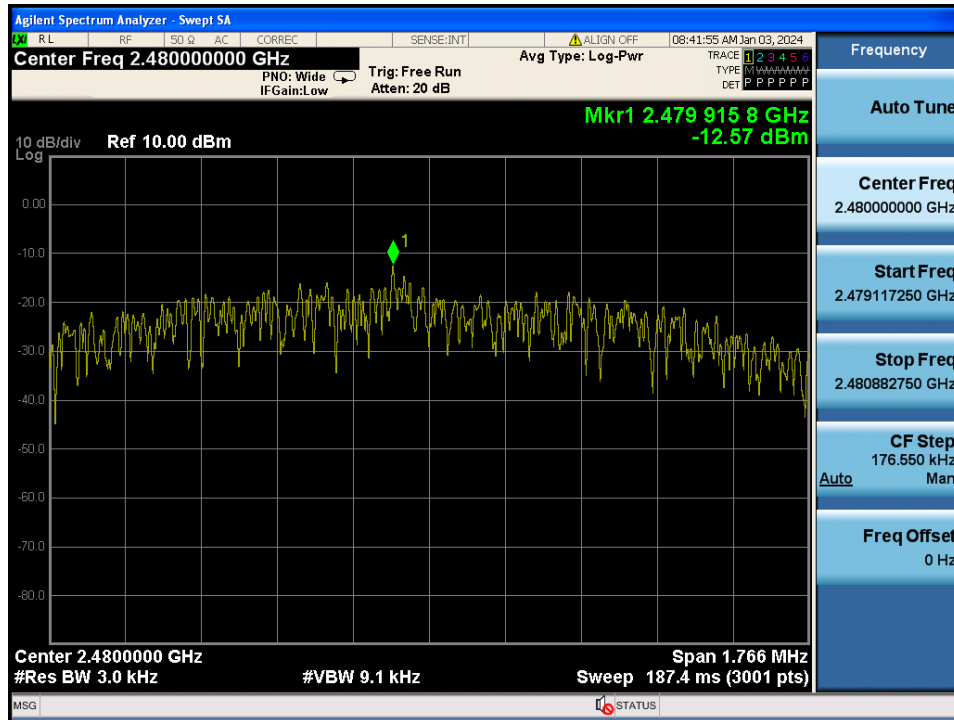
Maximum PKPSD

TM 2 Test Channel : Middle



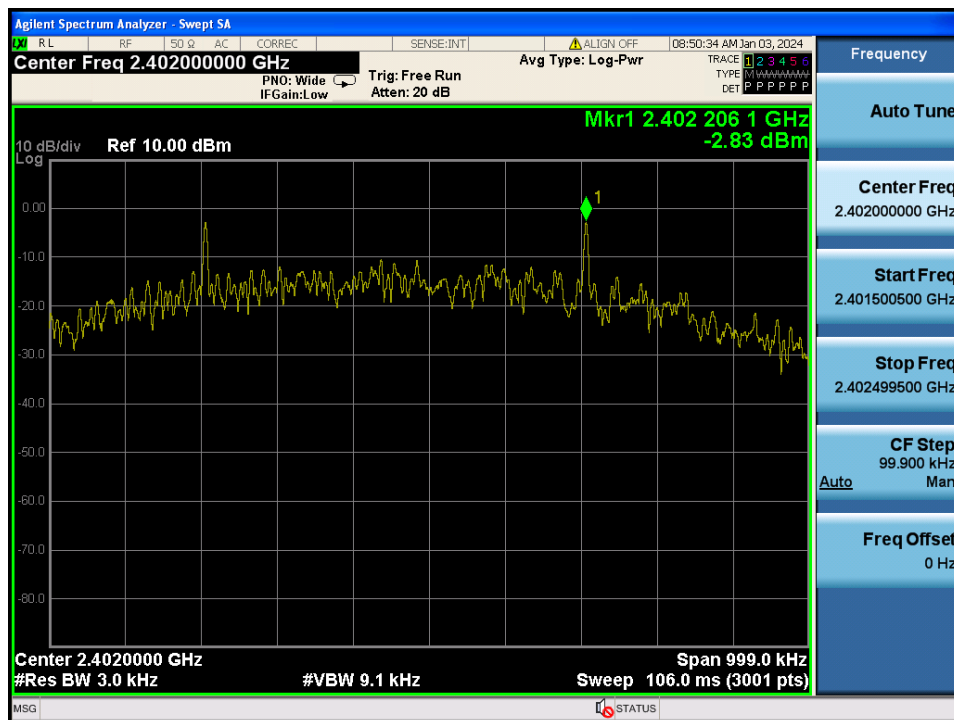
Maximum PKPSD

TM 2 Test Channel : Highest



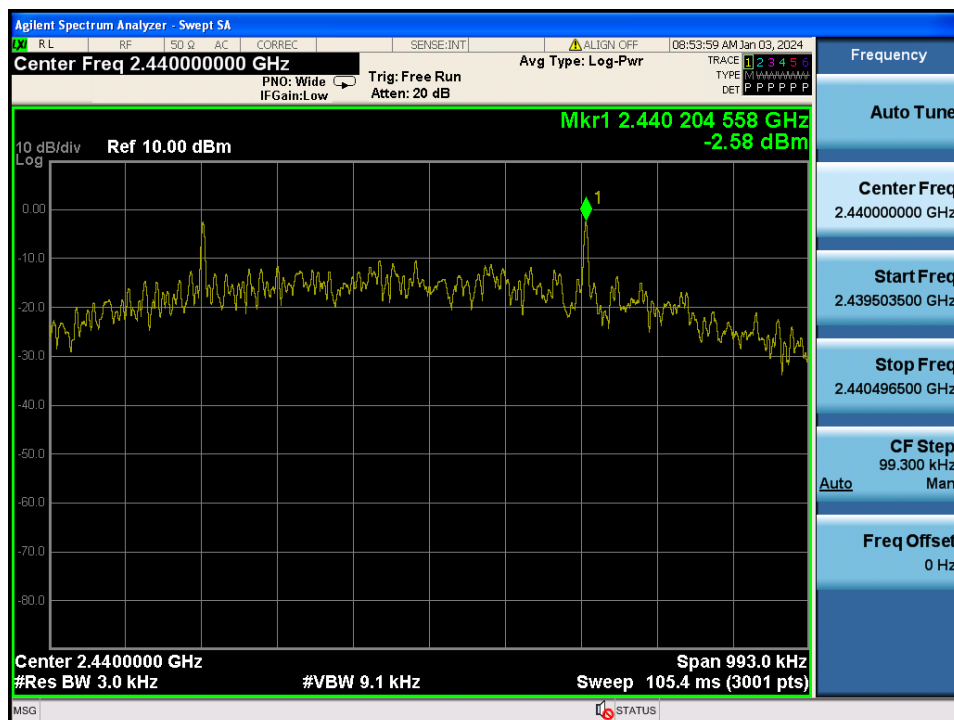
Maximum PKPSD

TM 3 Test Channel : Lowest



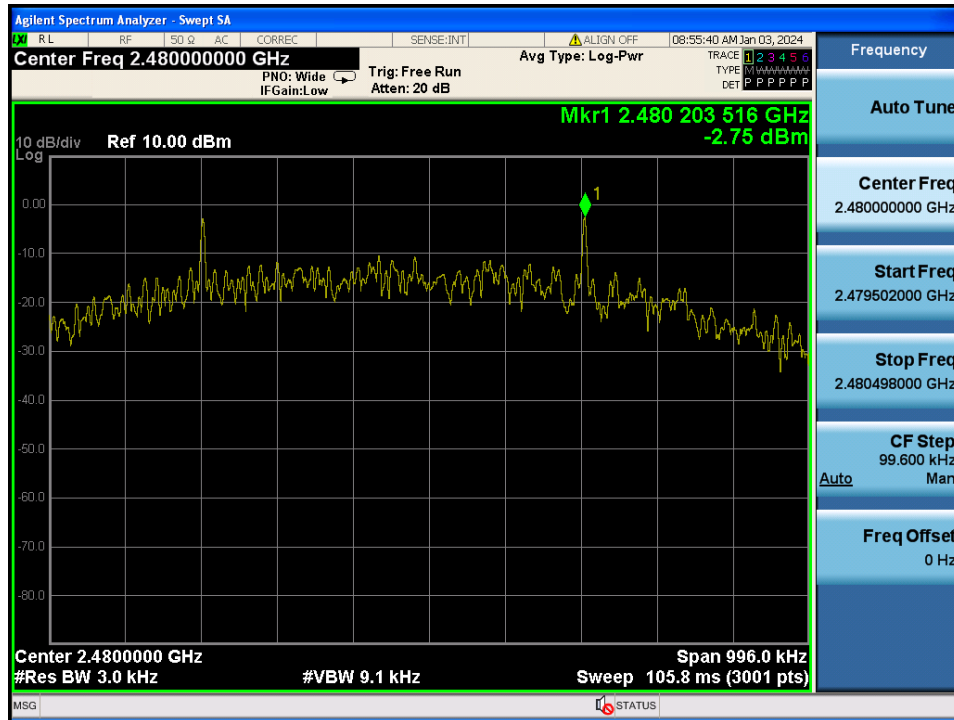
Maximum PKPSD

TM 3 Test Channel : Middle



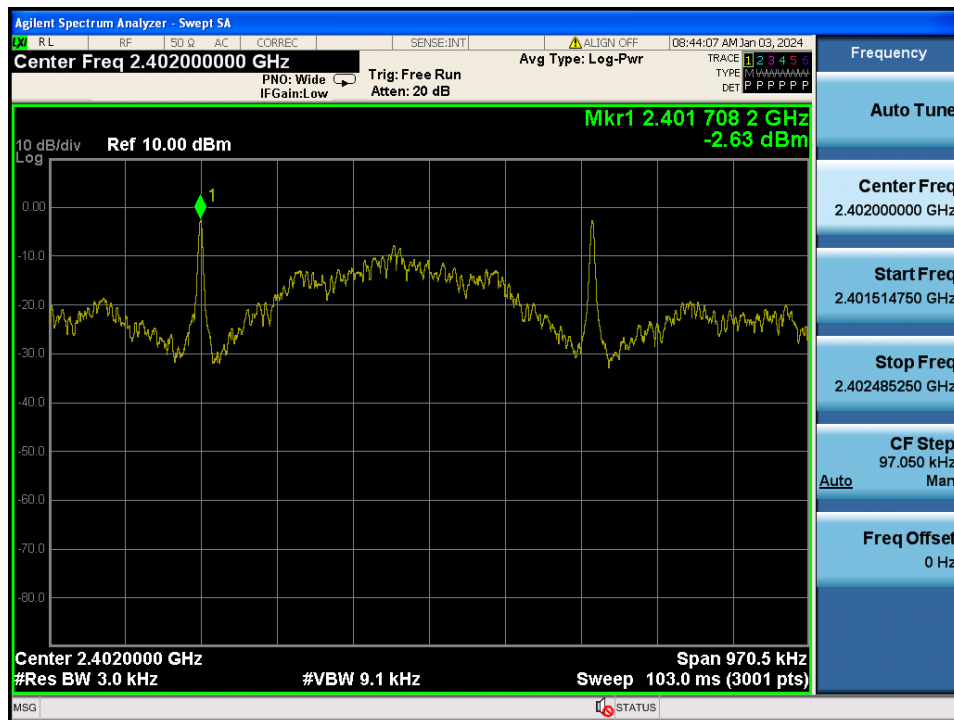
Maximum PKPSD

TM 3 Test Channel : Highest



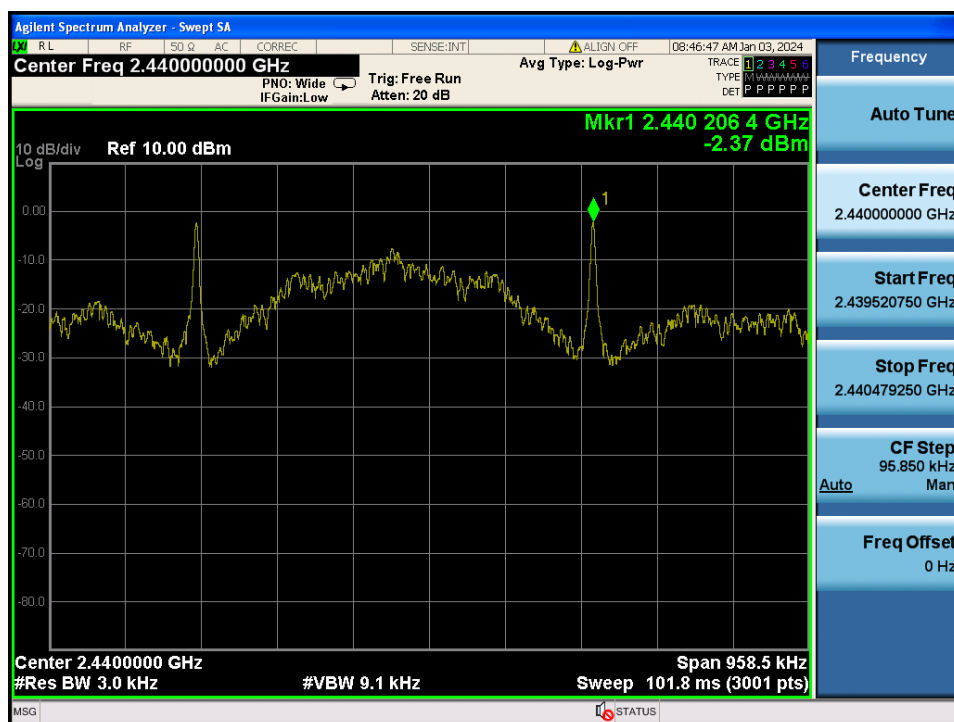
Maximum PKPSD

TM 4 Test Channel : Lowest



Maximum PKPSD

TM 4 Test Channel : Middle



Maximum PKPSD

TM 4 Test Channel : Highest



5.4. Unwanted Emissions (Conducted)

■ Test requirements and limit, Part 15.247(d) & RSS-247 [5.5]

In any 100 kHz bandwidth outside of the authorized frequency band, the power shall be attenuated according to the following conditions :

If the peak output power procedure is used to measure the fundamental emission power to demonstrate compliance to 15.247(b)(3) requirements, then the peak conducted output power measured within any 100 kHz outside the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum measured in-band peak PSD level.

If the average output power procedure is used to measure the fundamental emission power to demonstrate compliance to 15.247(b)(3) requirements, then the power in any 100 kHz outside of the authorized frequency band shall be attenuated by at least 30 dB relative to the maximum measured inband average PSD level.

In either case, attenuation to levels below the general emission limits specified in §15.209(a) is not required.

5.4.1. Test Setup

Refer to the APPENDIX I including path loss

5.4.2. Test Procedures

- KDB558074 D01v05r02 - Section 8.5
- ANSI C63.10-2013 – Section 11.11

Reference level measurement

1. Set instrument center frequency to DTS channel center frequency.
 2. Set the span to ≥ 1.5 times the DTS bandwidth.
 3. Set the RBW = 100 kHz.
 4. Set the VBW $\geq 3 \times$ RBW.
 5. Detector = peak.
 6. Sweep time = auto couple.
 7. Trace mode = max hold.
 8. Allow trace to fully stabilize.
 9. Use the peak marker function to determine the maximum PSD level
- LIMIT LINE = 20 dB below of the reference level.**

Emission level measurement

1. Set the center frequency and span to encompass frequency range to be measured.
2. Set the RBW = **100 kHz.(Actual 1 MHz , See below note)**
3. Set the VBW $\geq 3 \times$ RBW.(Actual 3 MHz, See below note)
4. Detector = **peak**.
5. Ensure that the number of measurement points $\geq$ span / RBW
6. Sweep time = **auto couple**.
7. Trace mode = **max hold**.
8. **Allow the trace to stabilize** (this may take some time, depending on the extent of the span).
9. Use the peak marker function to determine the maximum amplitude level.

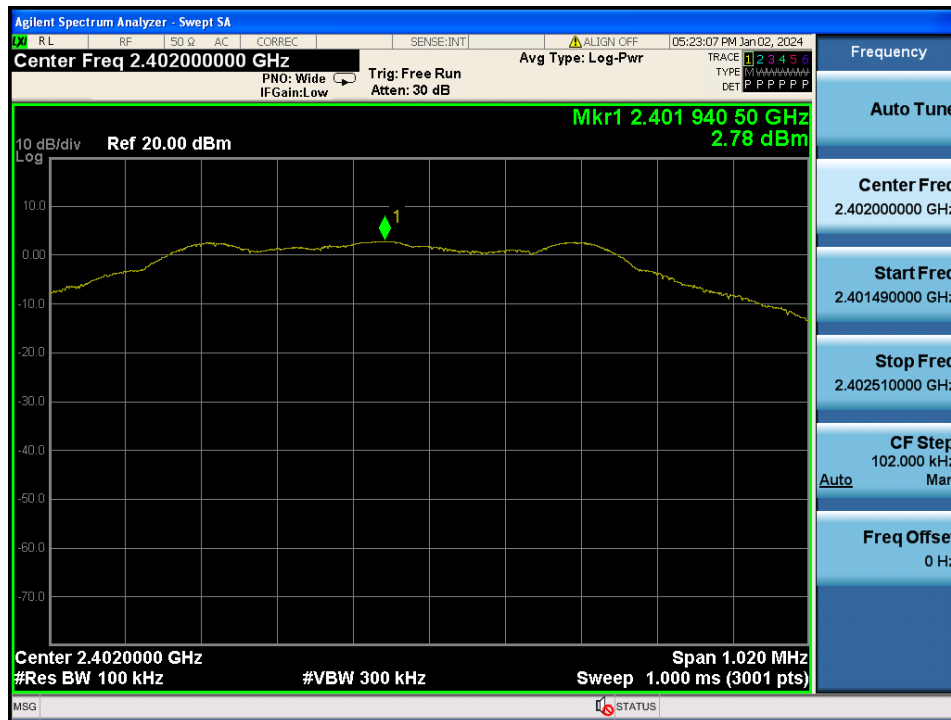
Note: The unwanted(conducted) emission was tested with below settings.

Frequency range	RBW	VBW	Detector	Trace	Sweep Point
9 kHz ~ 30 MHz	100 kHz	300 kHz	Peak	Max Hold	40 001
30 MHz ~ 10 GHz	1 MHz	3 MHz			
10 GHz ~ 25 GHz	1 MHz	3 MHz			

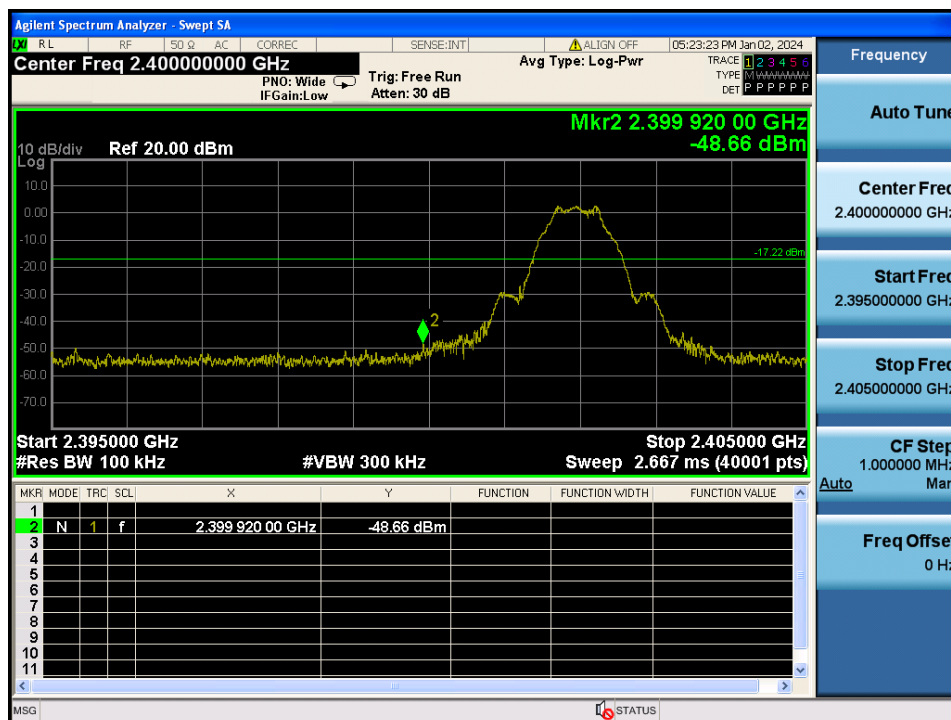
If the emission level with above setting was close to the limit (ie, less than 3 dB margin) then zoom scan is required using RBW = 100 kHz, VBW = 300 kHz, SPAN = 100 MHz and BINS = 2 001 to get accurate emission level within 100 kHz BW.

5.4.3. Test Results

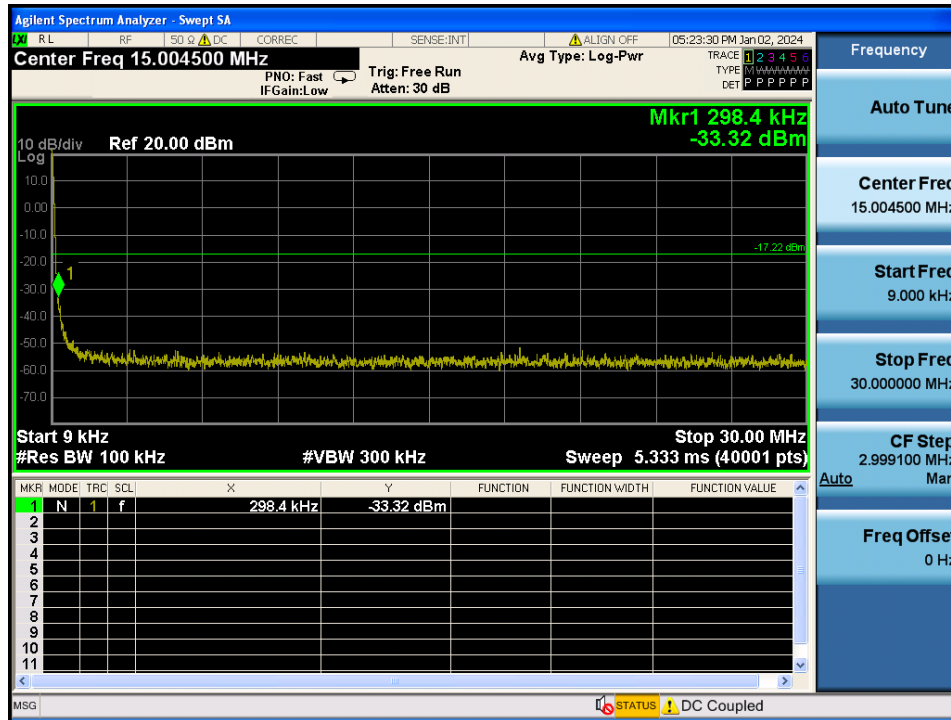
TM 1 Reference (Test Channel : Lowest)



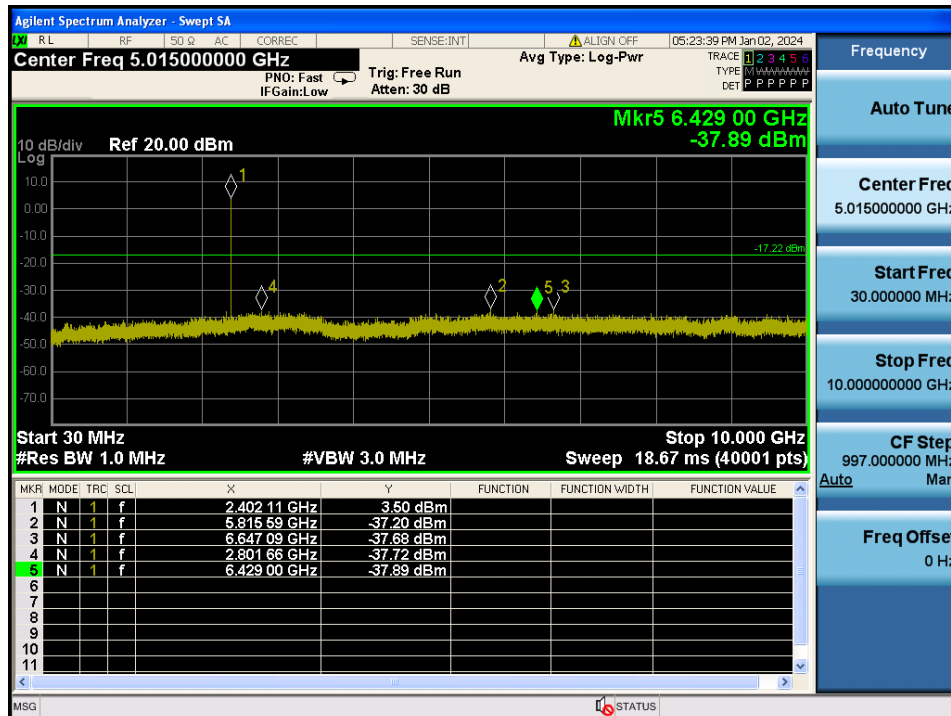
TM 1 Low Band-edge (Test Channel : Lowest)



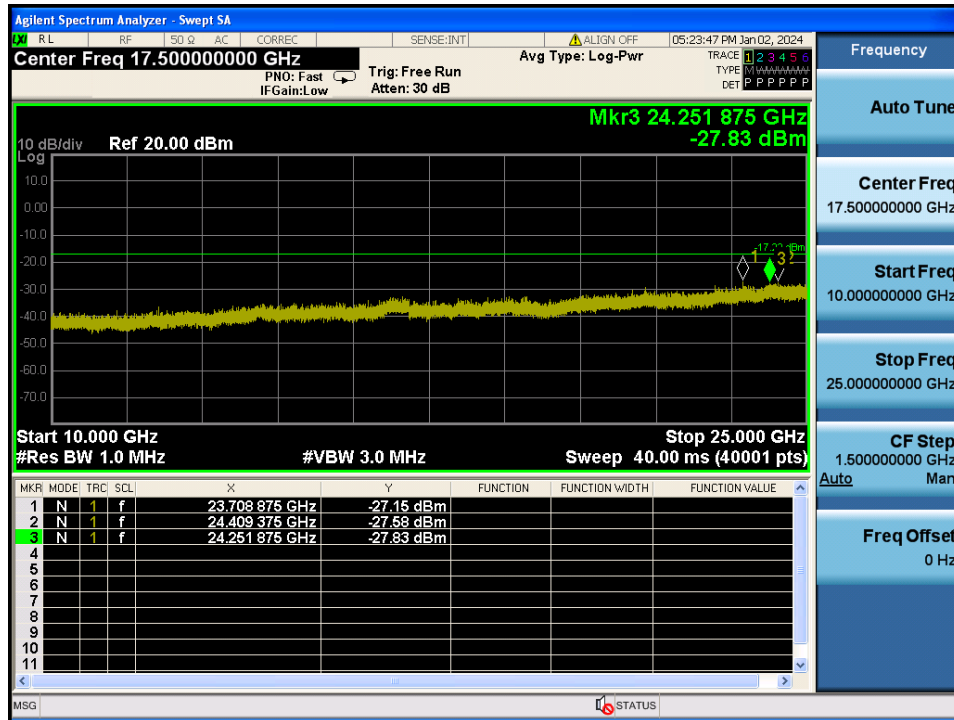
TM 1 Conducted Spurious Emissions 1 (Test Channel : Lowest)



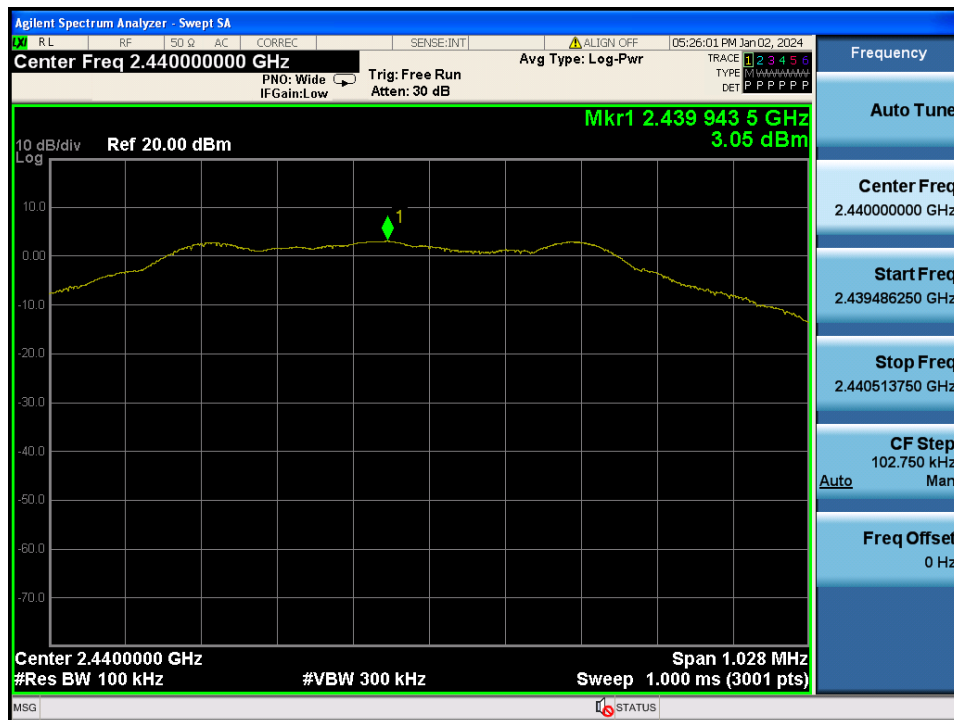
TM 1 Conducted Spurious Emissions 2 (Test Channel : Lowest)



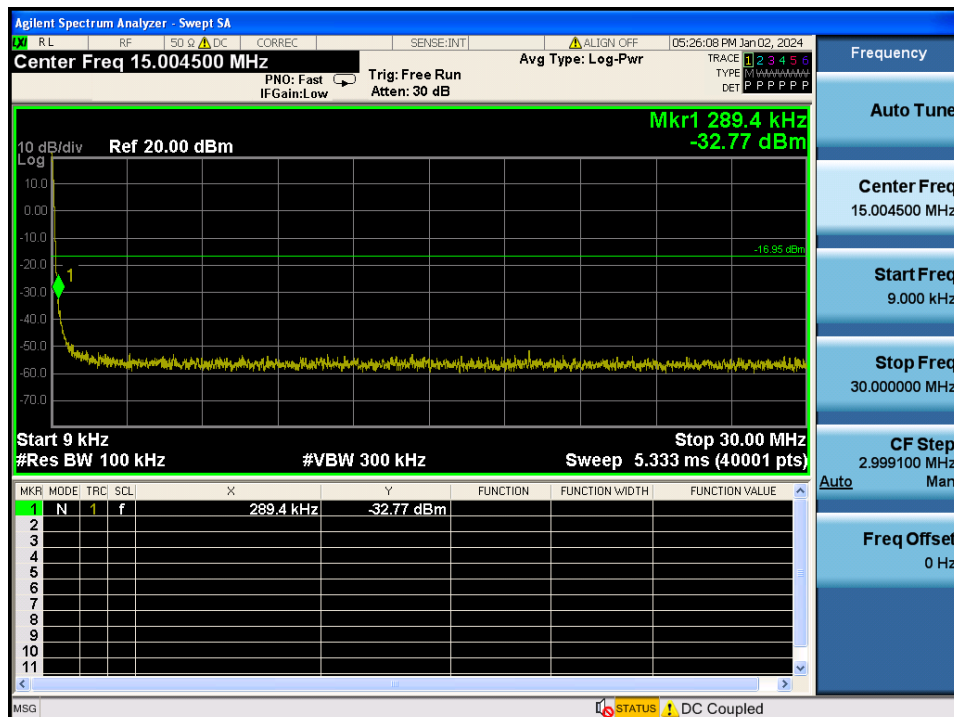
TM 1 Conducted Spurious Emissions 3 (Test Channel : Lowest)



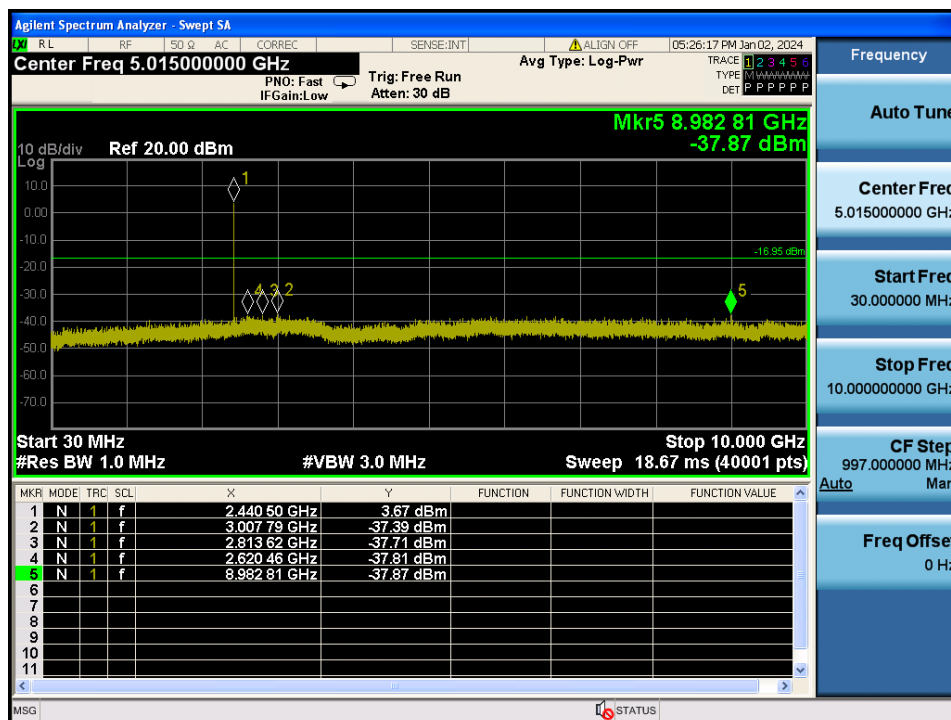
TM 1 Reference (Test Channel : Middle)



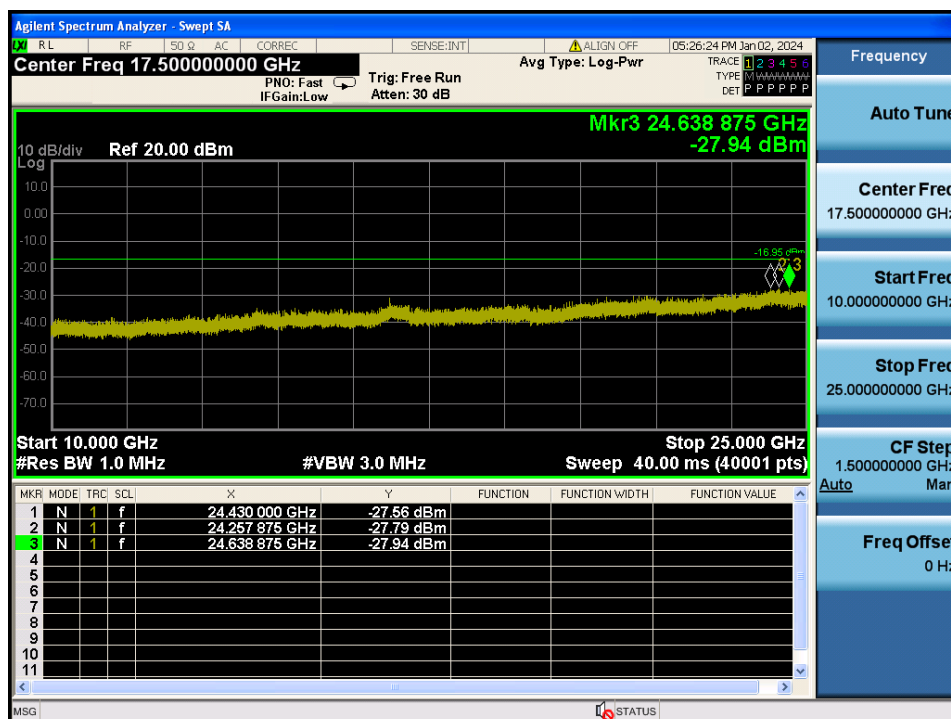
TM 1 Conducted Spurious Emissions 1 (Test Channel : Middle)



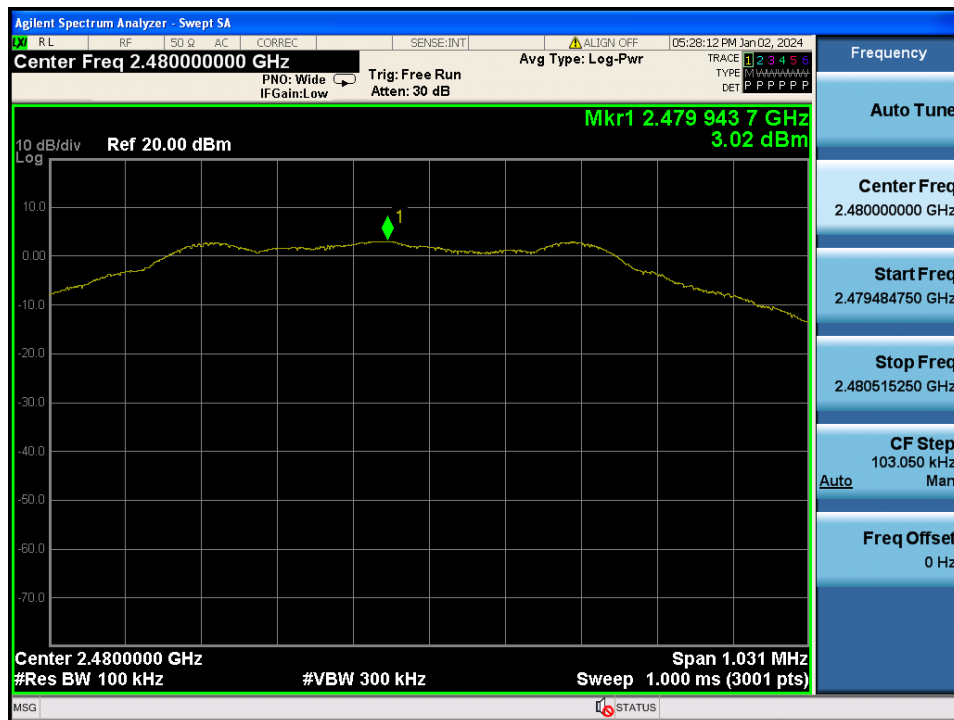
TM 1 Conducted Spurious Emissions 2 (Test Channel : Middle)



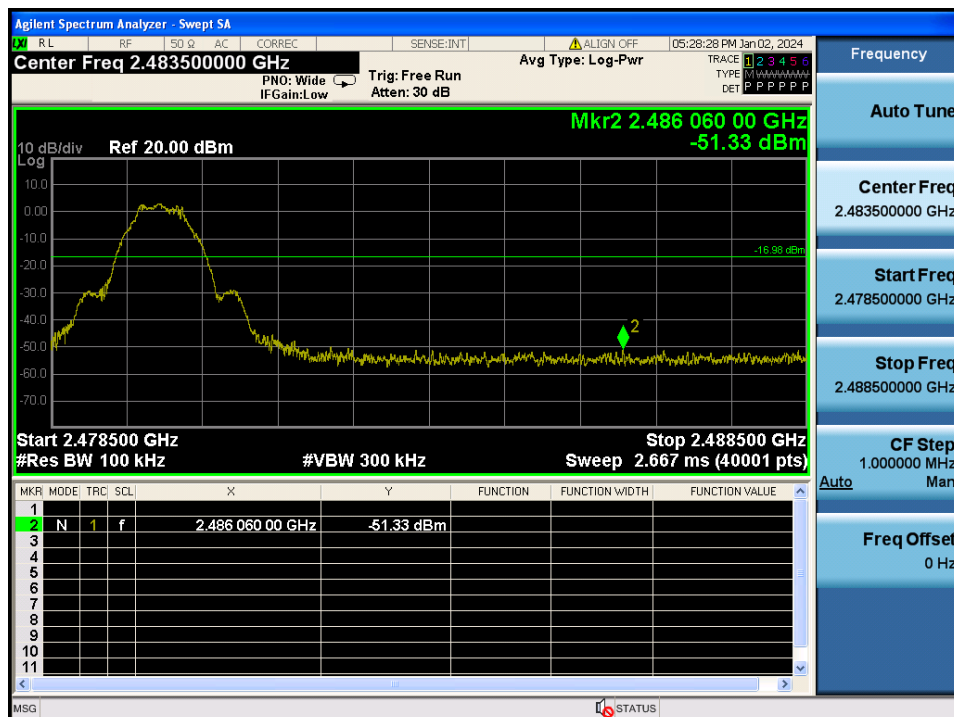
TM 1 Conducted Spurious Emissions 3 (Test Channel : Middle)



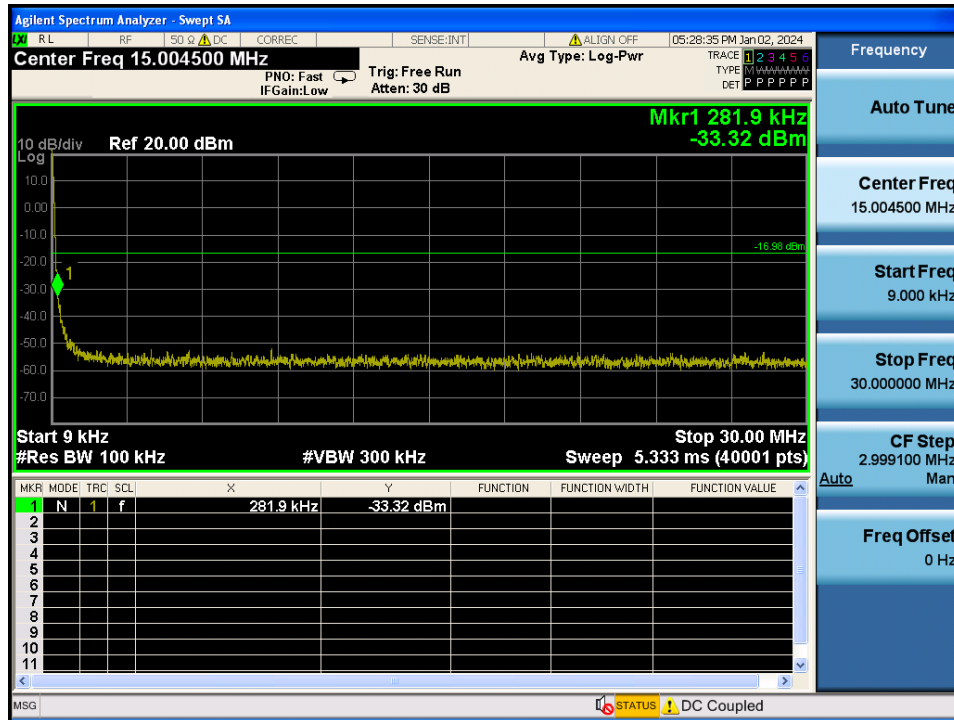
TM 1 Reference (Test Channel : Highest)



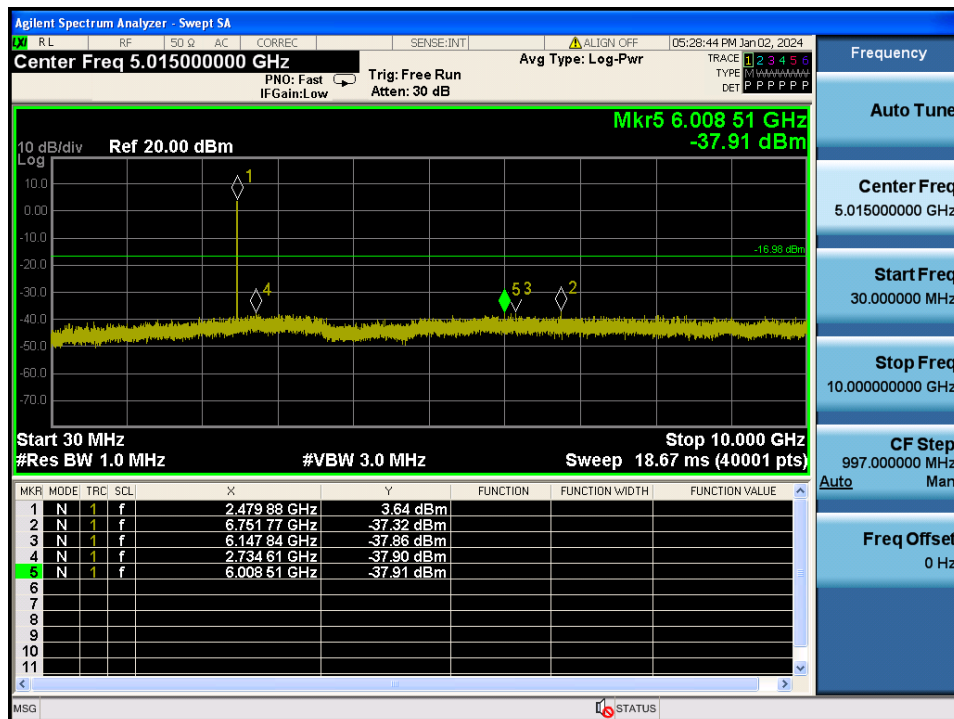
TM 1 High Band-edge (Test Channel : Highest)



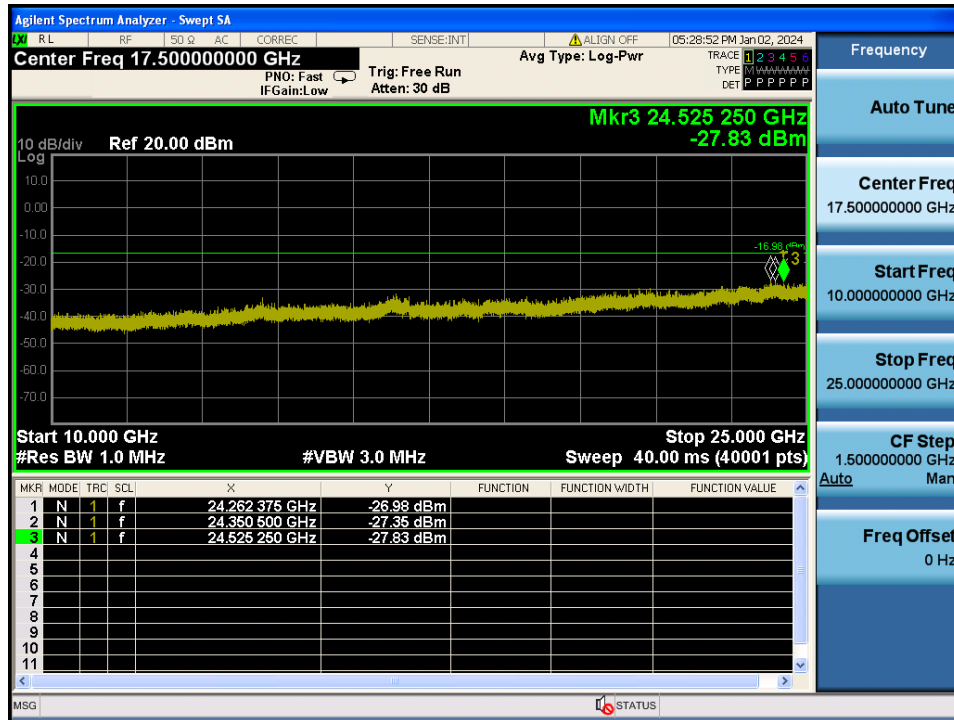
TM 1 Conducted Spurious Emissions 1 (Test Channel : Highest)



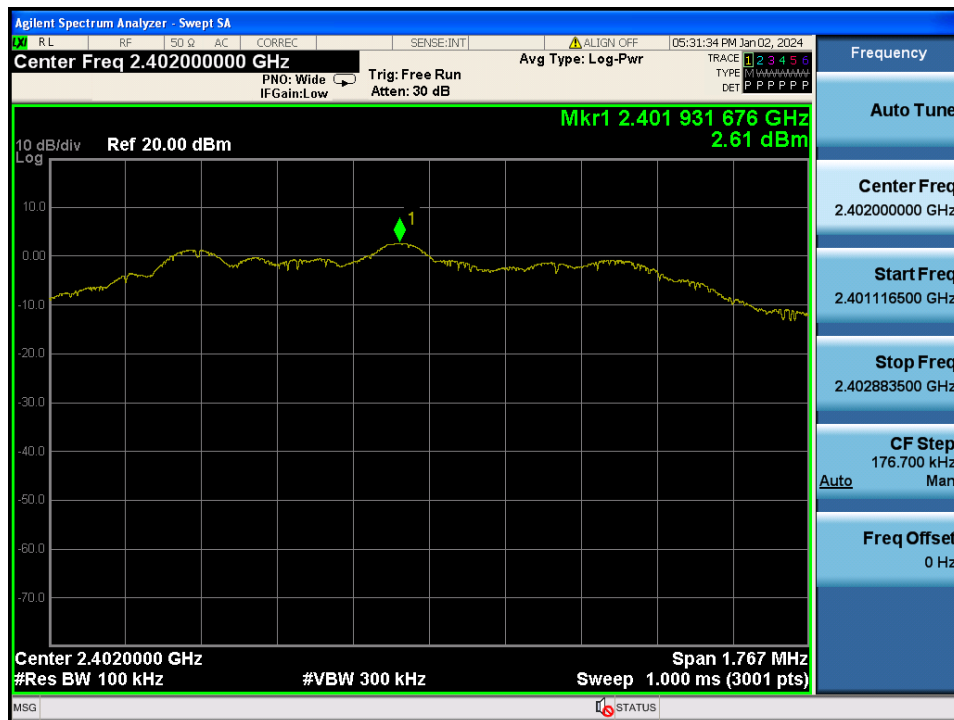
TM 1 Conducted Spurious Emissions 2 (Test Channel : Highest)



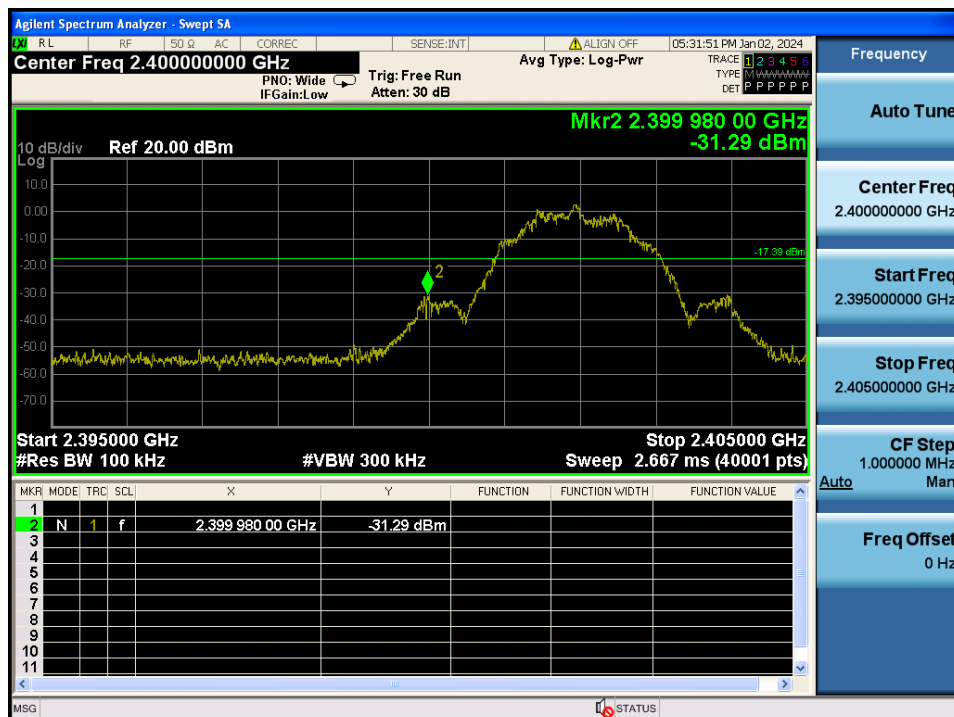
TM 1 Conducted Spurious Emissions 3 (Test Channel : Highest)



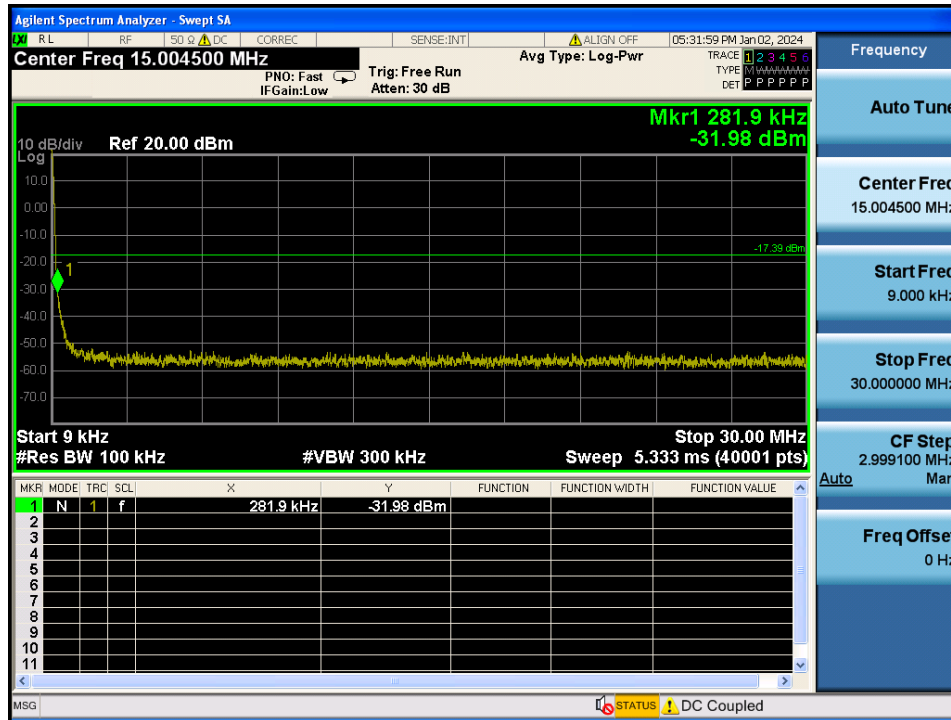
TM 2 Reference (Test Channel : Lowest)



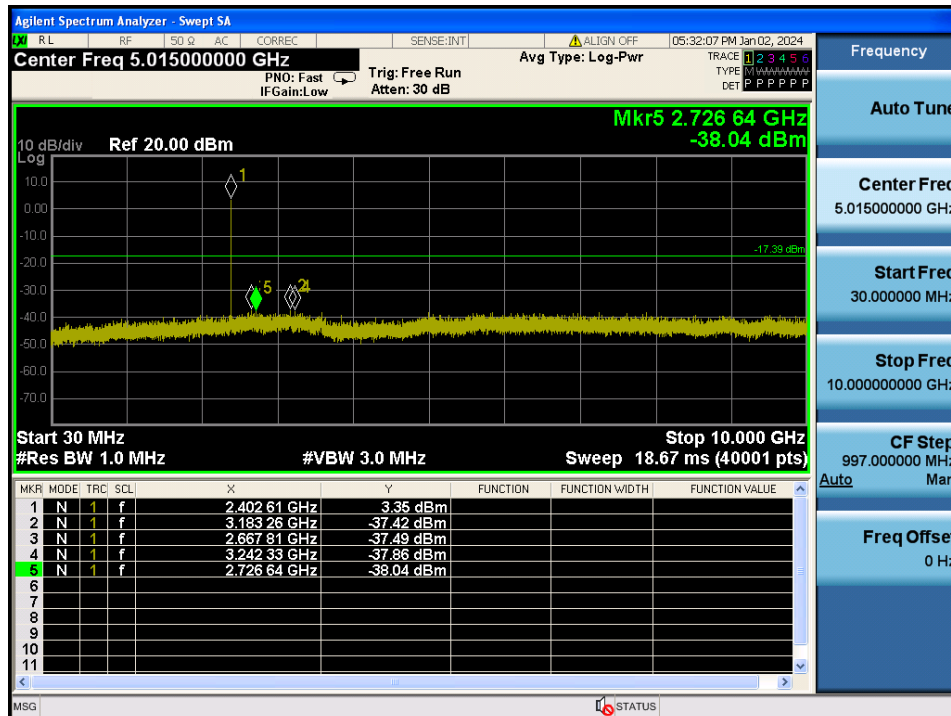
TM 2 Low Band-edge (Test Channel : Lowest)



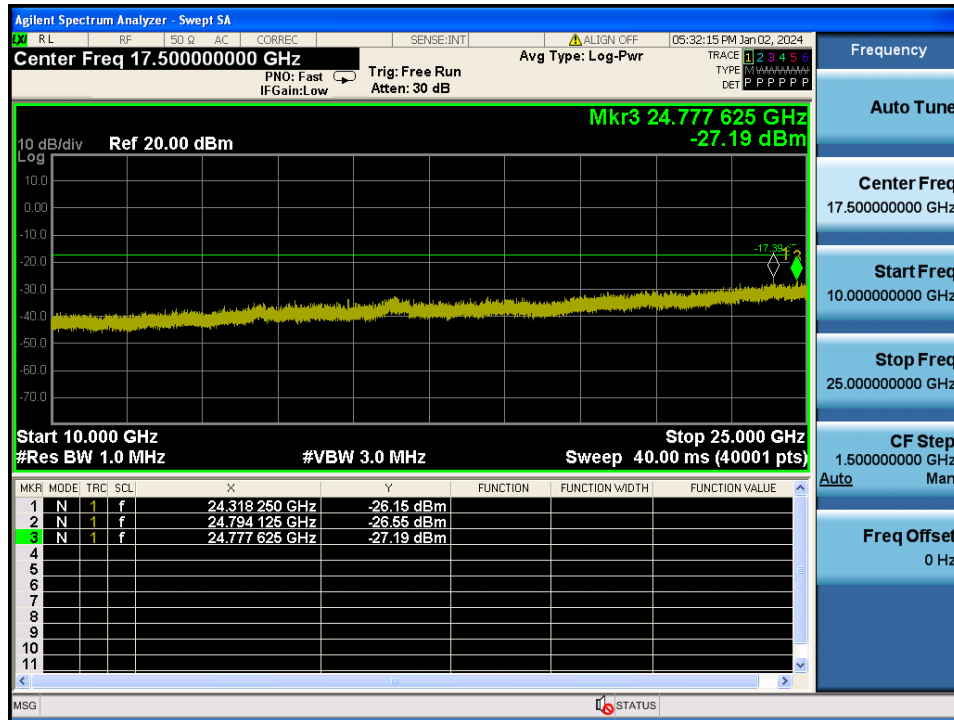
TM 2 Conducted Spurious Emissions 1 (Test Channel : Lowest)



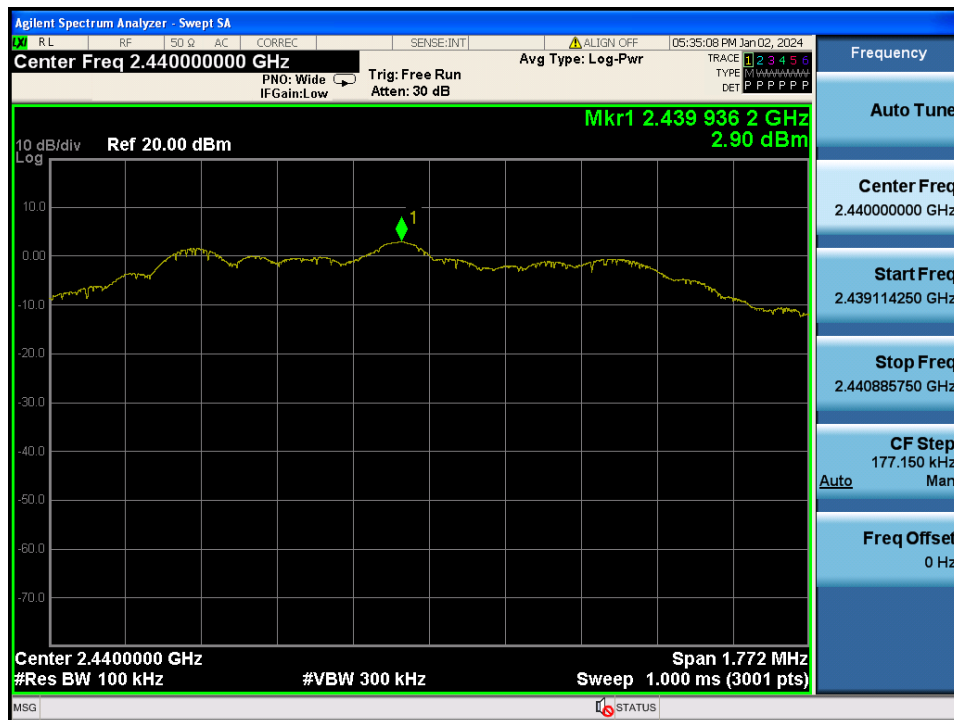
TM 2 Conducted Spurious Emissions 2 (Test Channel : Lowest)



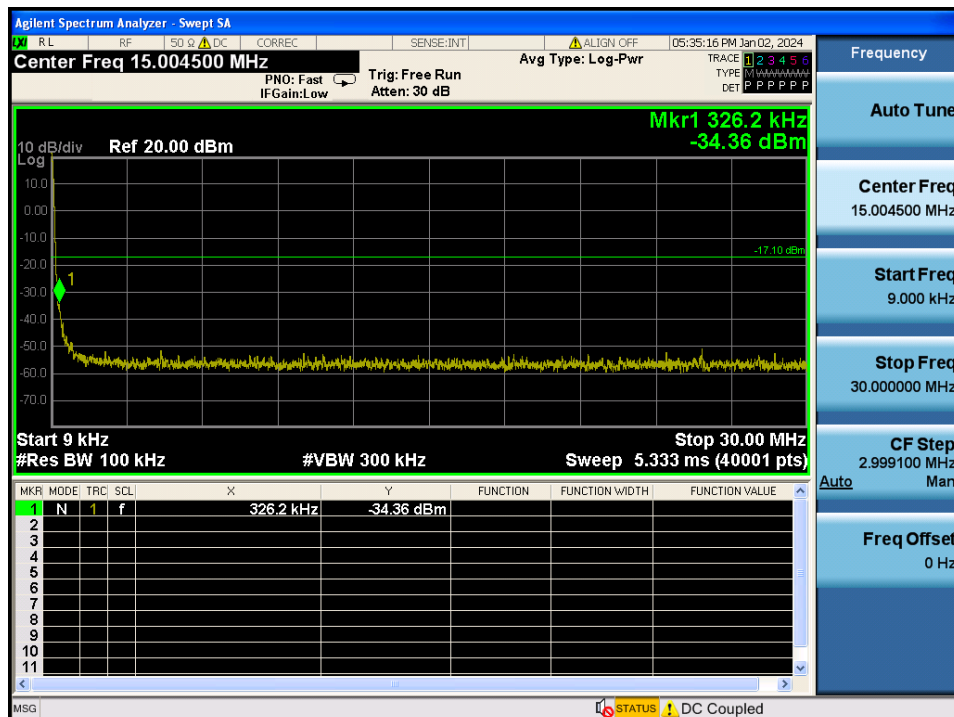
TM 2 Conducted Spurious Emissions 3 (Test Channel : Lowest)



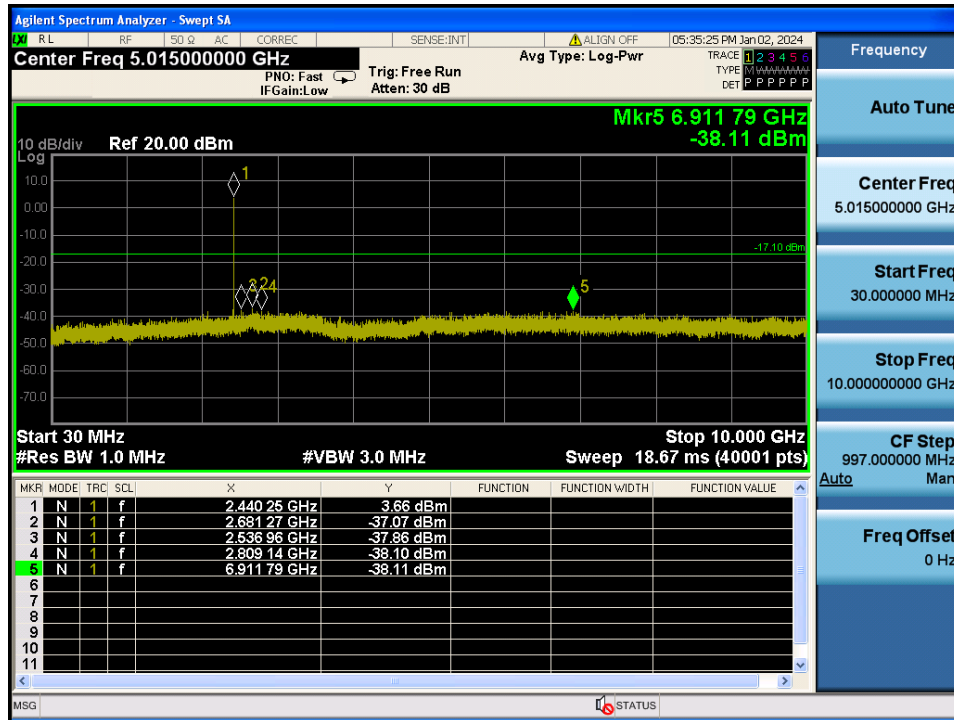
TM 2 Reference (Test Channel : Middle)



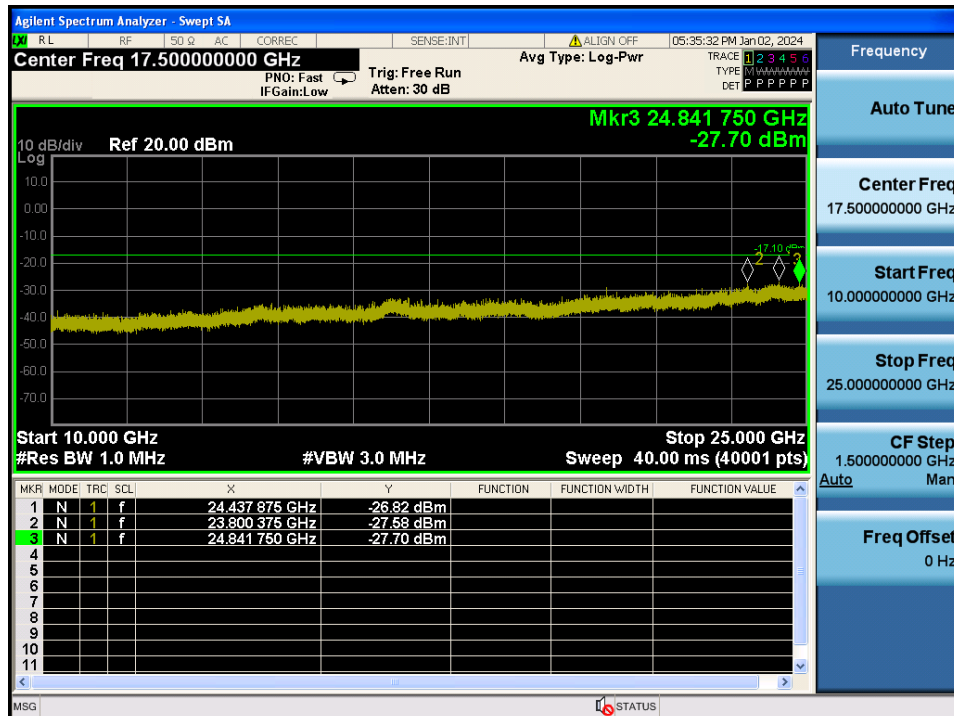
TM 2 Conducted Spurious Emissions 1 (Test Channel : Middle)



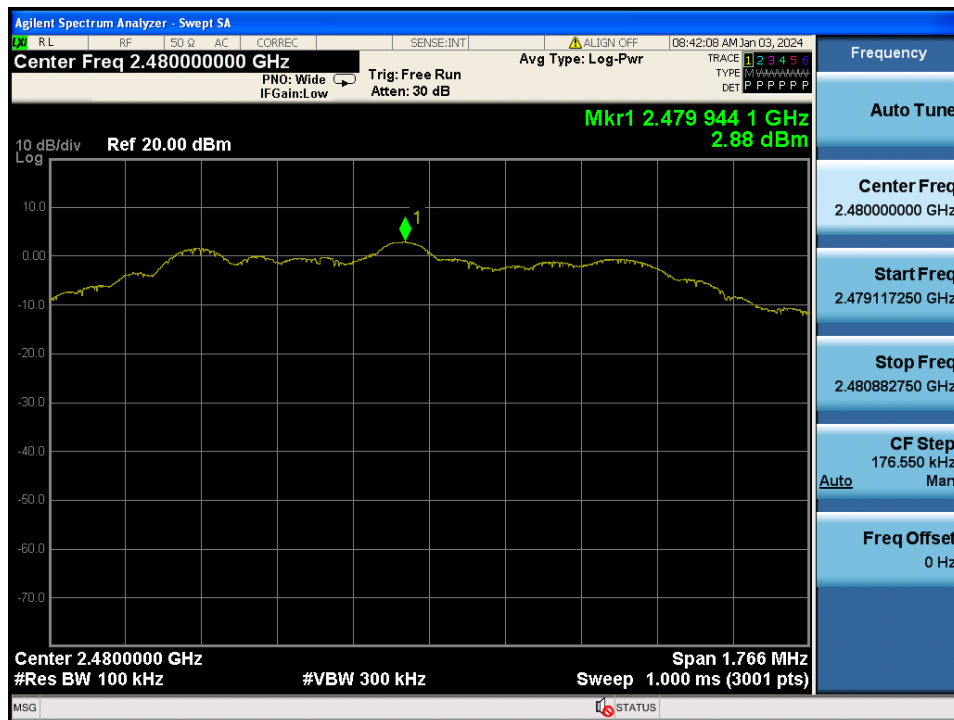
TM 2 Conducted Spurious Emissions 2 (Test Channel : Middle)



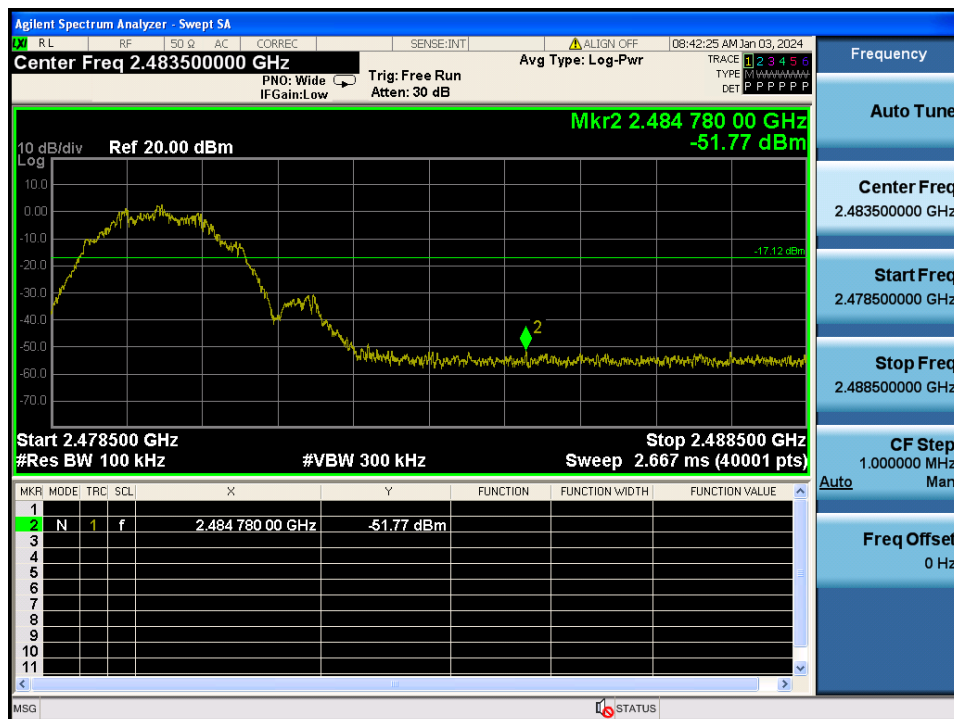
TM 2 Conducted Spurious Emissions 3 (Test Channel : Middle)



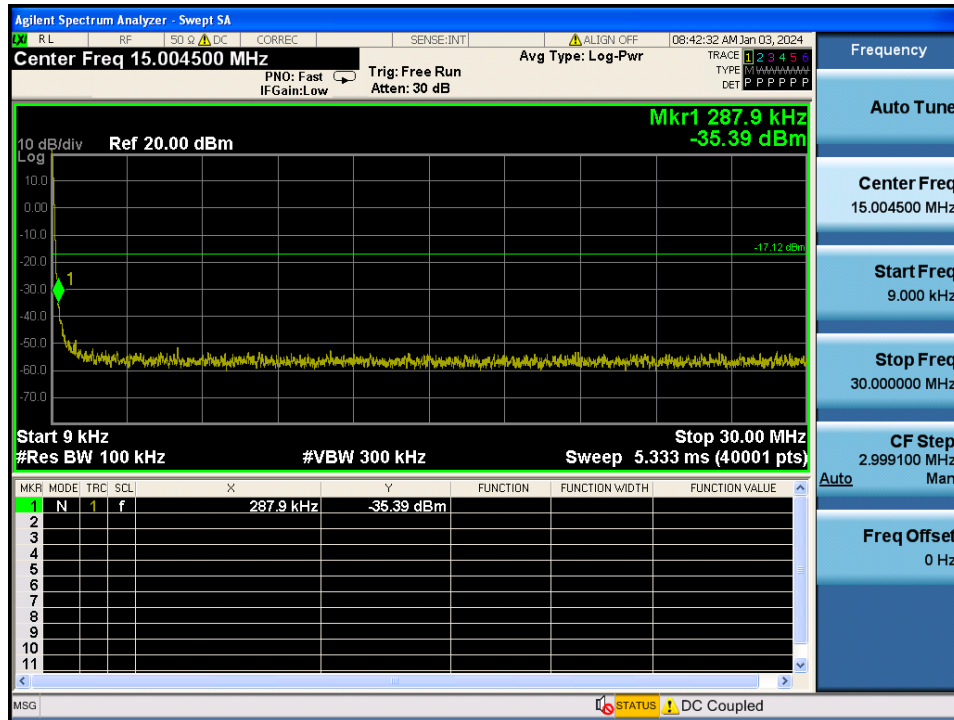
TM 2 Reference (Test Channel : Highest)



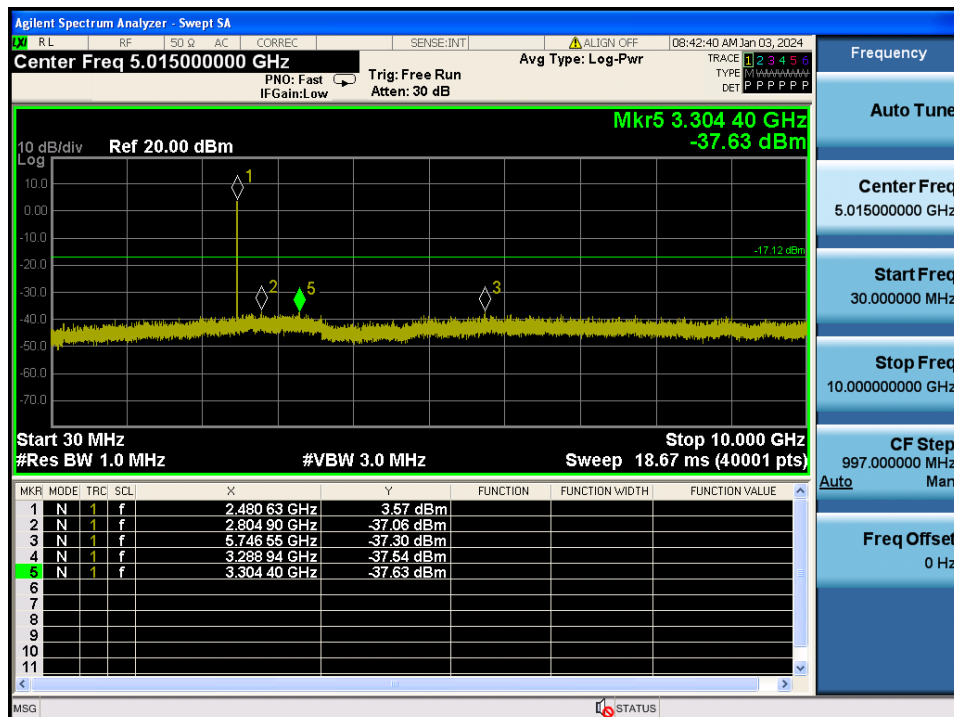
TM 2 High Band-edge (Test Channel : Highest)



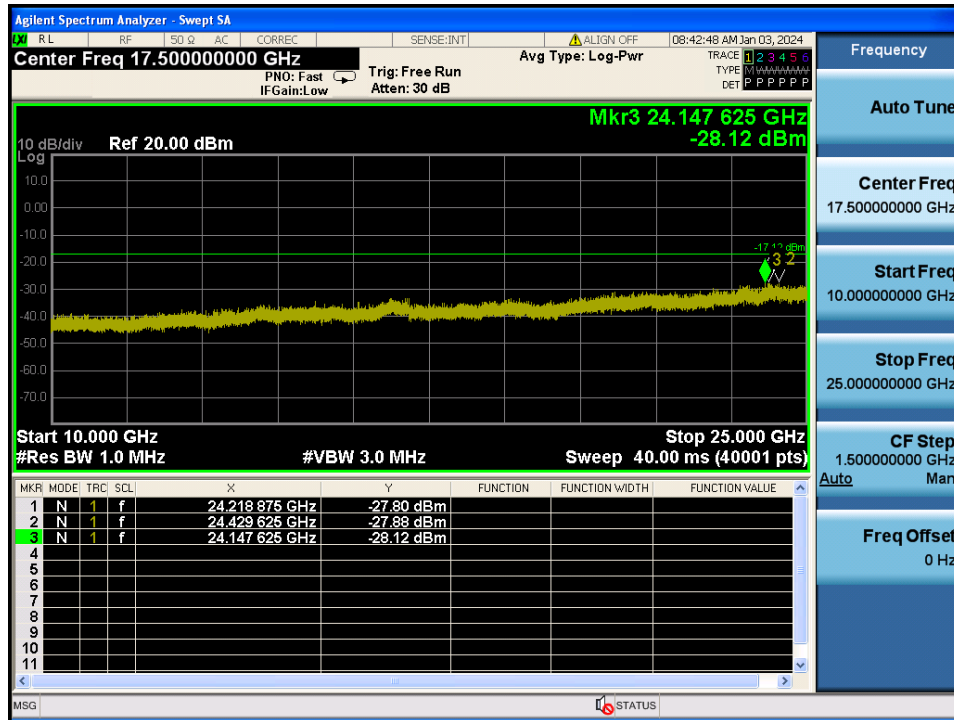
TM 2 Conducted Spurious Emissions 1 (Test Channel : Highest)



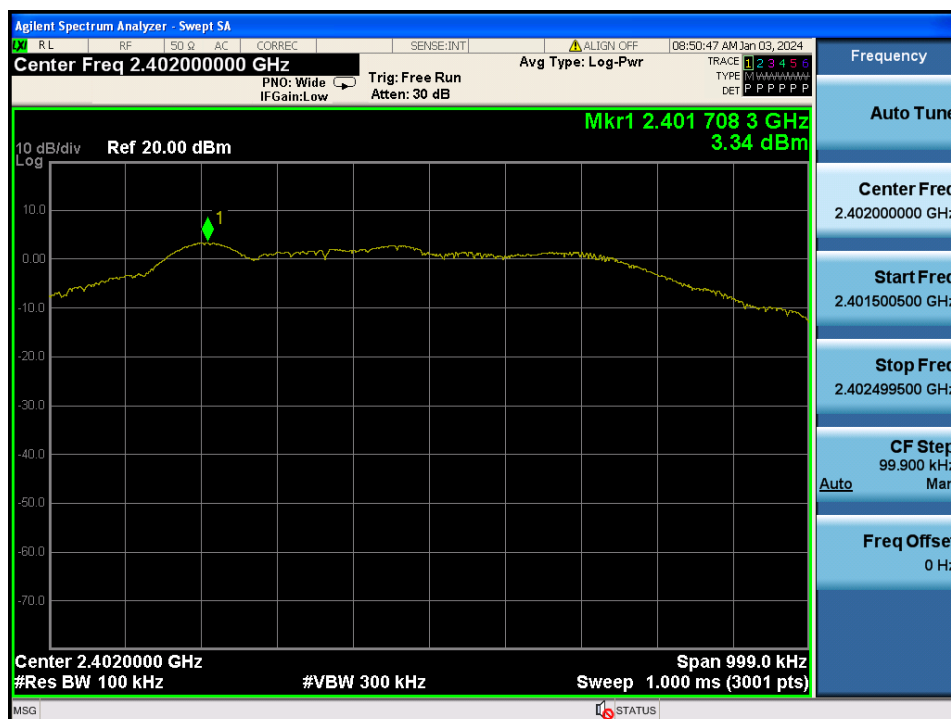
TM 2 Conducted Spurious Emissions 2 (Test Channel : Highest)



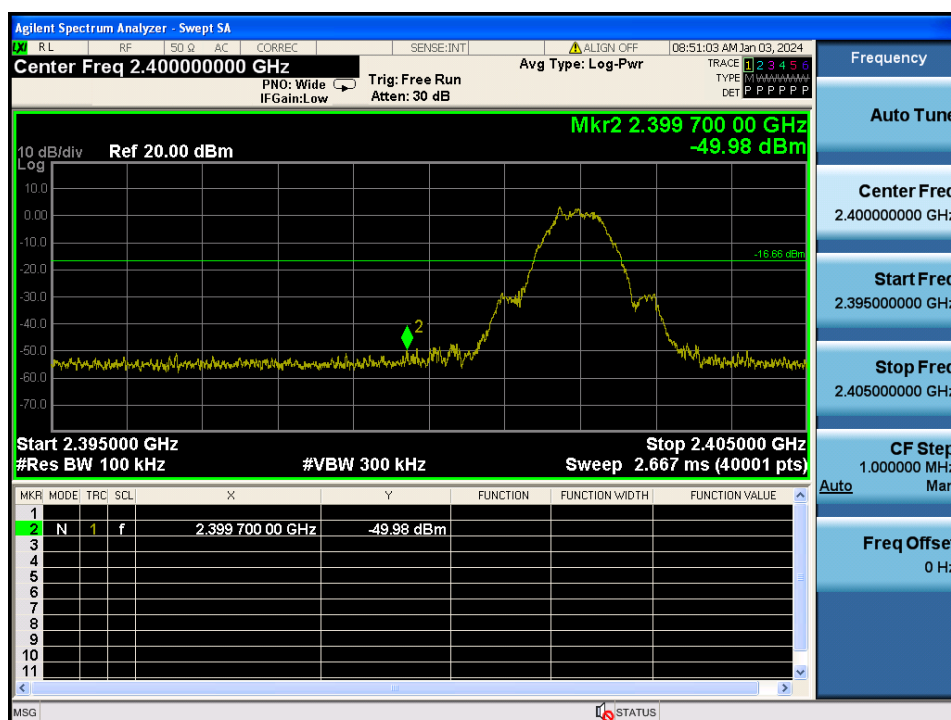
TM 2 Conducted Spurious Emissions 3 (Test Channel : Highest)



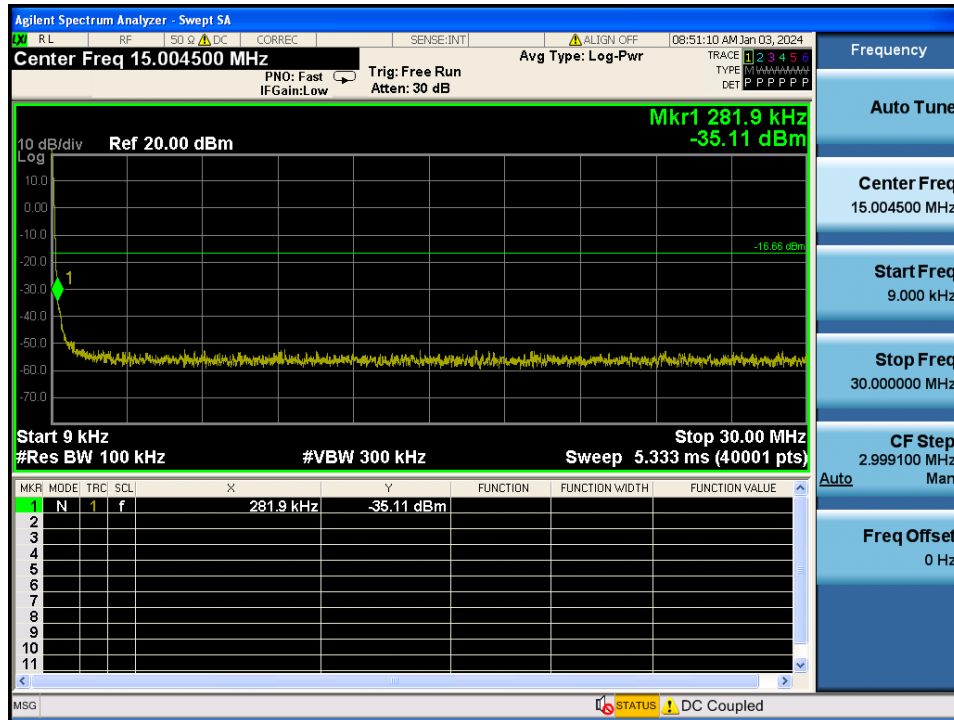
TM 3 Reference (Test Channel : Lowest)



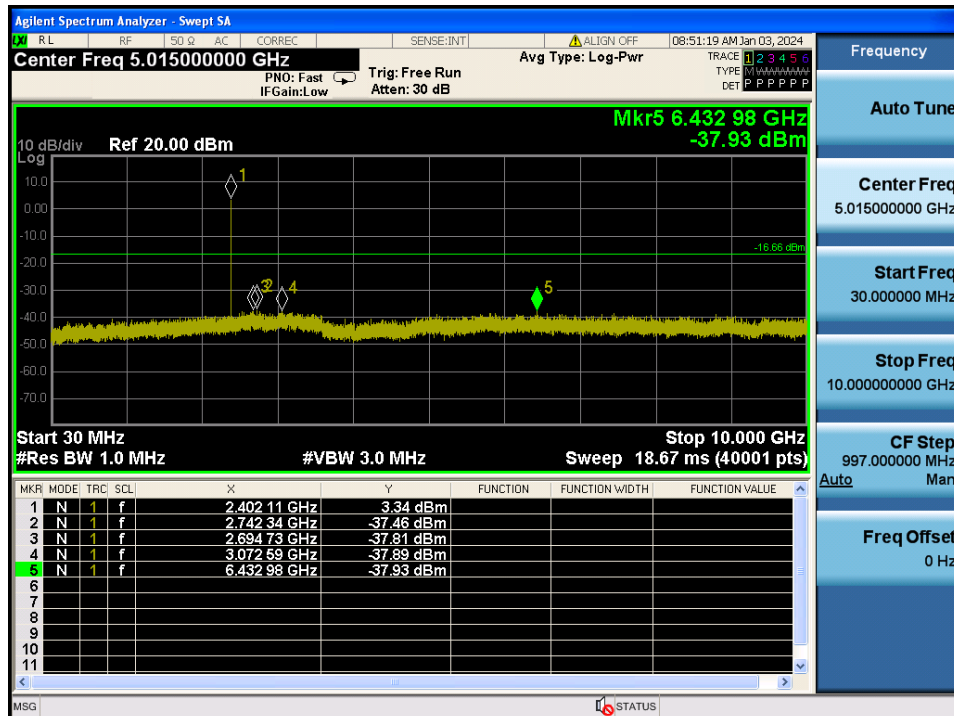
TM 3 Low Band-edge (Test Channel : Lowest)



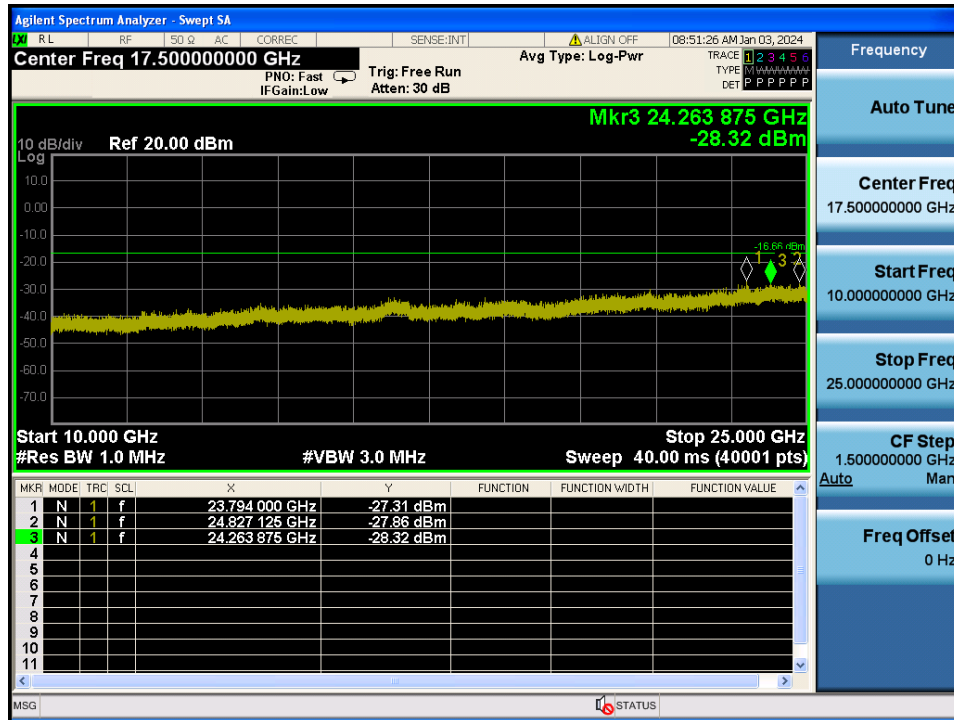
TM 3 Conducted Spurious Emissions 1 (Test Channel : Lowest)



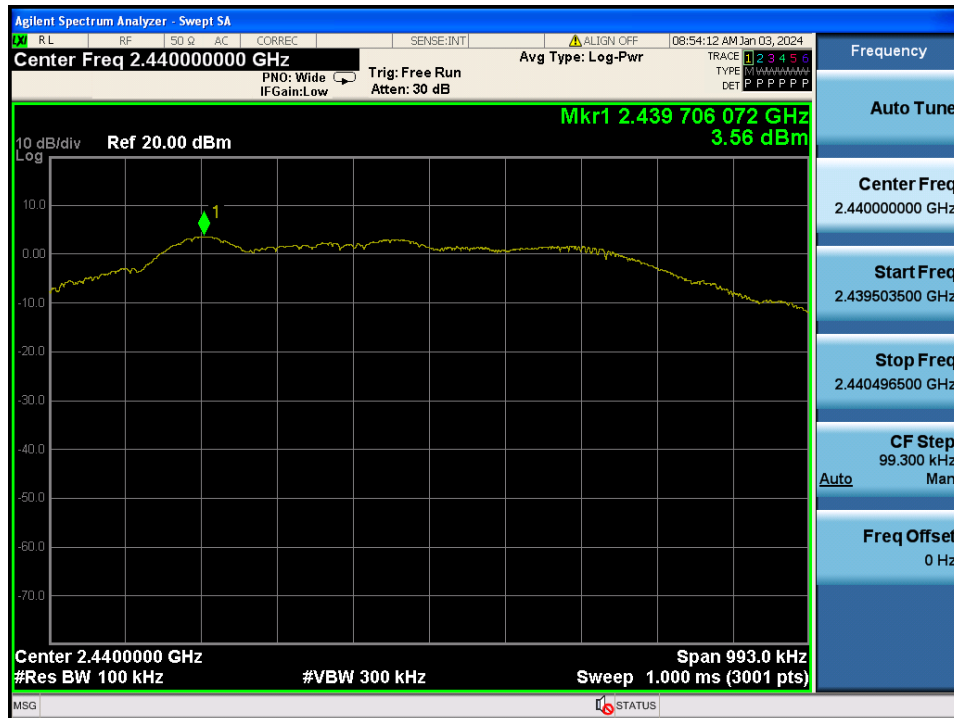
TM 3 Conducted Spurious Emissions 2 (Test Channel : Lowest)



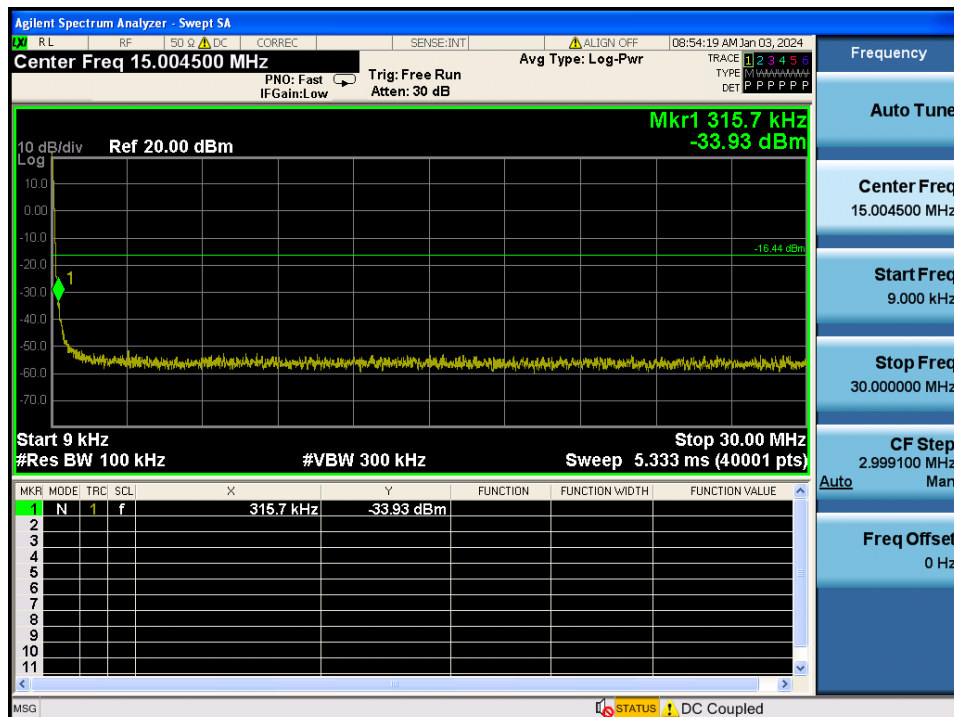
TM 3 Conducted Spurious Emissions 3 (Test Channel : Lowest)



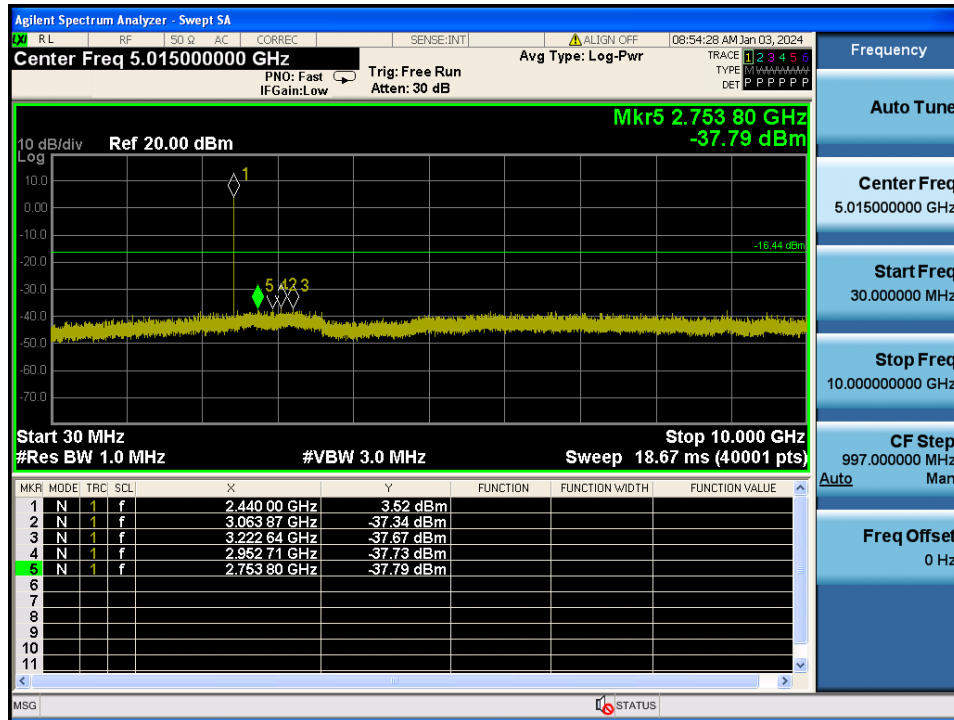
TM 3 Reference (Test Channel : Middle)



TM 3 Conducted Spurious Emissions 1 (Test Channel : Middle)



TM 3 Conducted Spurious Emissions 2 (Test Channel : Middle)



TM 3 Conducted Spurious Emissions 3 (Test Channel : Middle)

