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Test Report

Report No.: CQASZ20220300337E-01
Applicant: Avantronics Limited
Address of Applicant: The 4th Floor, Yuepeng Building, No.1019 Jiabin Rd, Luohu District, Shenzhen
Equipment Under Test (EUT):
Product: Audiplex
Model No.: WSTR-2403, WSTR-2403-S, WSTR-2403-RX, WSTR-2403-TX
Test Model No.: WSTR-2403
Brand Name: Avantree
FCC ID: WJ5-WSTR-2403
Standards: 47 CFR Part 15, Subpart C
Date of Receipt: 2022-03-08
Date of Test: 2022-03-08 to 2022-07-20
Date of Issue: 2022-07-28
Test Result: **PASS***

*In the configuration tested, the EUT complied with the standards specified above.

Tested By: _____

Lewis Zhou

(Lewis Zhou)

Reviewed By: _____

K. Liao

(K Liao)

Approved By: _____

Jack Ai

(Jack Ai)



1 Version

Revision History Of Report

Report No.	Version	Description	Issue Date
CQASZ20220300337E-01	Rev.01	Initial report	2022-07-28

2 Test Summary

Test Item	Test Requirement	Test method	Result
Antenna Requirement	47 CFR Part 15, Subpart C Section 15.203/15.247 (c)	ANSI C63.10 2013	PASS
AC Power Line Conducted Emission	47 CFR Part 15, Subpart C Section 15.207	ANSI C63.10 2013	PASS
Conducted Peak Output Power	47 CFR Part 15, Subpart C Section 15.247 (b)(3)	ANSI C63.10 2013	PASS
6dB Occupied Bandwidth	47 CFR Part 15, Subpart C Section 15.247 (a)(2)	ANSI C63.10 2013	PASS
Power Spectral Density	47 CFR Part 15, Subpart C Section 15.247 (e)	ANSI C63.10 2013	PASS
Band-edge for RF Conducted Emissions	47 CFR Part 15, Subpart C Section 15.247(d)	ANSI C63.10 2013	PASS
RF Conducted Spurious Emissions	47 CFR Part 15, Subpart C Section 15.247(d)	ANSI C63.10 2013	PASS
Radiated Spurious Emissions	47 CFR Part 15, Subpart C Section 15.205/15.209	ANSI C63.10 2013	PASS
Restricted bands around fundamental frequency (Radiated Emission)	47 CFR Part 15, Subpart C Section 15.205/15.209	ANSI C63.10 2013	PASS

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4 General Information

4.1 Client Information

Applicant:	Avantronics Limited
Address of Applicant:	The 4th Floor, Yuepeng Building, No.1019 Jiabin Rd, Luohu District, Shenzhen
Manufacturer:	Avantronics Limited
Address of Manufacturer:	The 4th Floor, Yuepeng Building, No.1019 Jiabin Rd, Luohu District, Shenzhen
Factory:	Avantronics Limited
Address of Factory:	The 4th Floor, Yuepeng Building, No.1019 Jiabin Rd, Luohu District, Shenzhen

4.2 General Description of EUT

Product Name:	Audiplex
Model No.:	WSTR-2403, WSTR-2403-S, WSTR-2403-RX, WSTR-2403-TX
Test Model No.:	WSTR-2403
Trade Mark:	Avantree
Software Version:	C05_TX_EPP_2021_9_2_V2.1 C05_2021_8_14RX_V1.3
Hardware Version:	MWAC05-TX-REVF MWAC05-RX-REVE
Operation Frequency:	2404MHz~2481MHz
Modulation Type:	GFSK
Transfer Rate:	1Mbps
Number of Channel:	3
Product Type:	<input type="checkbox"/> Mobile <input checked="" type="checkbox"/> Portable <input type="checkbox"/> Fix Location
Test Software of EUT:	BlueTest3
Antenna Type:	Chip antenna
Antenna Gain:	Ant1: 7.29dBi Ant2: 5.19dBi Mimo: 9.31dBi
EUT Power Supply:	Li-ion battery: DC 3.7V 600mAh, Charge by DC 5V for adapter

Mimo is the mode in which two antennas transmit simultaneously

When EUT works normally, it is transmitted simultaneously by two antennas

Operation Frequency each of channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
0	2404MHz	1	2441MHz	2	2481MHz		

Note:

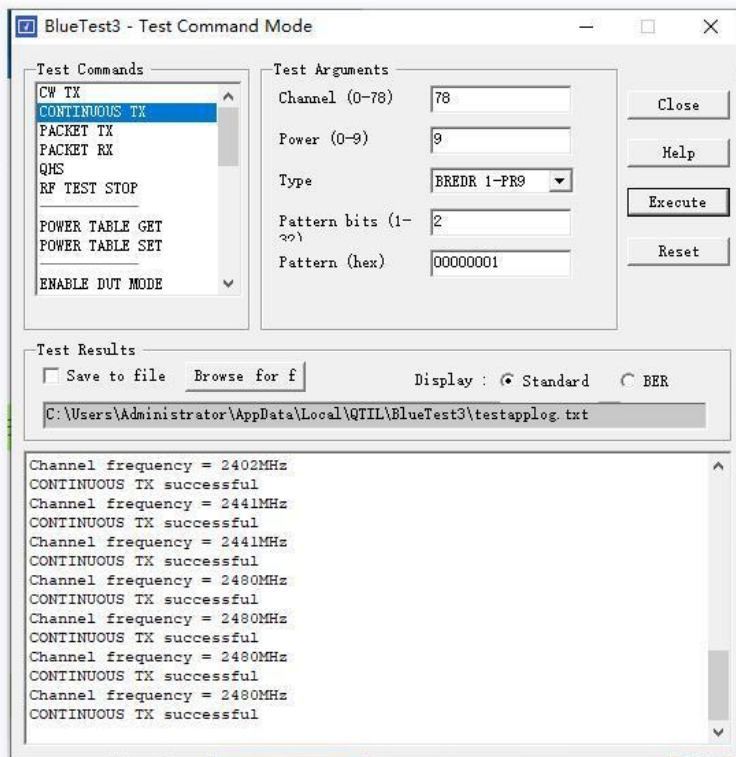
In section 15.31(m), regards to the operating frequency range over 10 MHz, the lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Channel	Frequency
The lowest channel (CH0)	2404MHz
The middle channel (CH1)	2441MHz
The highest channel (CH2)	2481MHz

4.3 Additional Instructions

EUT Test Software Settings:		
Mode:	<input checked="" type="checkbox"/> Special software is used. <input type="checkbox"/> Through engineering command into the engineering mode. engineering command: <code>###3646633###</code>	
EUT Power level:	Class2 (Power level is built-in set parameters and cannot be changed and selected)	
Use test software to set the lowest frequency, the middle frequency and the highest frequency keep transmitting of the EUT.		
Mode	Channel	Frequency(MHz)
GFSK	CH0	2404
	CH1	2441
	CH2	2481

Run Software:



4.4 Test Environment

Operating Environment:	
Temperature:	24.5°C
Humidity:	59% RH
Atmospheric Pressure:	1009mbar
Test Mode:	Use test software to set the lowest frequency, the middle frequency and the highest frequency keep transmitting of the EUT.

4.5 Description of Support Units

The EUT has been tested with associated equipment below.

1) Support equipment

Description	Manufacturer	Model No.	Certification	Supplied by
/	/	/	/	/

2) Cable

Cable No.	Description	Manufacturer	Cable Type/Length	Supplied by
/	/	/	/	/

4.6 Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate.

The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities.

The measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16 - 4 „Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements“ and is documented in the **Shenzhen Huaxia Testing Technology Co., Ltd.** quality system acc. to DIN EN ISO/IEC 17025.

Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for CQA laboratory is reported:

No.	Item	Uncertainty
1	Radiated Emission (Below 1GHz)	5.12dB
2	Radiated Emission (Above 1GHz)	4.60dB
3	Conducted Disturbance (0.15~30MHz)	3.34dB
4	Radio Frequency	3×10^{-8}
5	Duty cycle	0.6 %
6	Occupied Bandwidth	1.1%
7	RF conducted power	0.86dB
8	RF power density	0.74
9	Conducted Spurious emissions	0.86dB
10	Temperature test	0.8°C
11	Humidity test	2.0%
12	Supply voltages	0.5 %
13	Frequency Error	5.5 Hz

4.7 Test Location

All tests were performed at:

Shenzhen Huaxia Testing Technology Co., Ltd.

1F., Block A of Tongsheng Technology Building, Huahui Road, Dalang Street, Longhua District, Shenzhen, China

4.8 Test Facility

- **A2LA (Certificate No. 4742.01)**

Shenzhen Huaxia Testing Technology Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 4742.01.

- **FCC Registration No.: 522263**

Shenzhen Huaxia Testing Technology Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration No.:522263

4.9 Deviation from Standards

None.

4.10 Other Information Requested by the Customer

None.

4.11 Equipment List

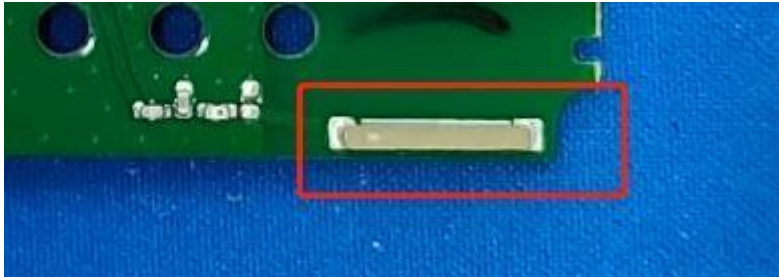

Test Equipment	Manufacturer	Model No.	Instrument No.	Calibration Date	Calibration Due Date
EMI Test Receiver	R&S	ESR7	CQA-005	2021/9/10	2022/9/9
Spectrum analyzer	R&S	FSU26	CQA-038	2021/9/10	2022/9/9
Preamplifier	MITEQ	AFS4-00010300-18-10P-4	CQA-035	2021/9/10	2022/9/9
Preamplifier	MITEQ	AMF-6D-02001800-29-20P	CQA-036	2021/9/10	2022/9/9
Loop antenna	Schwarzbeck	FMZB1516	CQA-087	2021/9/16	2024/9/15
Bilog Antenna	R&S	HL562	CQA-011	2021/9/16	2024/9/15
Horn Antenna	R&S	HF906	CQA-012	2021/9/16	2024/9/15
Horn Antenna	Schwarzbeck	BBHA 9170	CQA-088	2021/9/16	2024/9/15
Coaxial Cable (Above 1GHz)	CQA	N/A	C019	2021/9/10	2022/9/9
Coaxial Cable (Below 1GHz)	CQA	N/A	C020	2021/9/10	2022/9/9
Antenna Connector	CQA	RFC-01	CQA-080	2021/9/10	2022/9/9
RF cable(9KHz~40GHz)	CQA	RF-01	CQA-079	2021/9/10	2022/9/9
Power divider	MIDWEST	PWD-2533-02-SMA-79	CQA-067	2021/9/10	2022/9/9
EMI Test Receiver	R&S	ESPI3	CQA-013	2021/9/10	2022/9/9
LISN	R&S	ENV216	CQA-003	2021/9/10	2022/9/9
Coaxial cable	CQA	N/A	CQA-C009	2021/9/10	2022/9/9

Note:

The temporary antenna connector is soldered on the pcb board in order to perform conducted tests and this temporary antenna connector is listed in the equipment list.

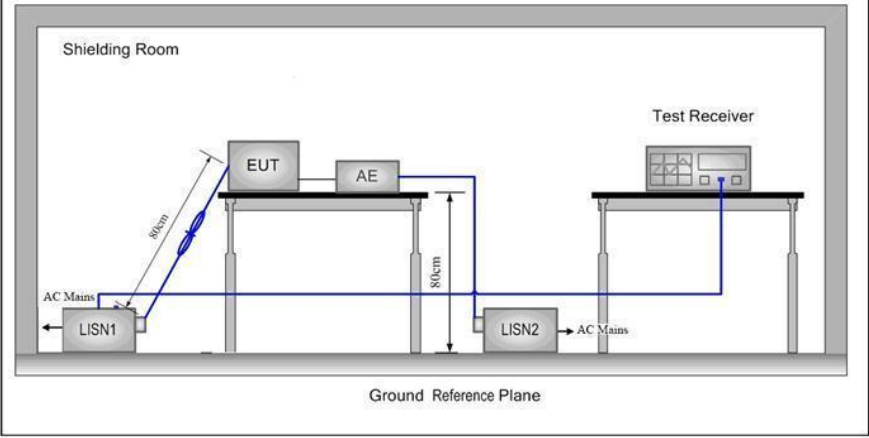
5 Test results and Measurement Data

5.1 Antenna Requirement

Standard requirement:	47 CFR Part 15C Section 15.203 /247(c)
<p>15.203 requirement: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.</p> <p>15.247(b) (4) requirement: The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.</p>	
EUT Antenna:	<p>Ant1:</p>  <p>Ant2:</p> 
<p>The antenna is Chip antenna. Ant 1: 7.29dBi Ant 2: 5.19dBi Mimo:9.31dBi Ant1 and Ant2 differ in length Mimo Antenna Gain: $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / N_{ANT}]$ dBi = 9.31dBi</p>	

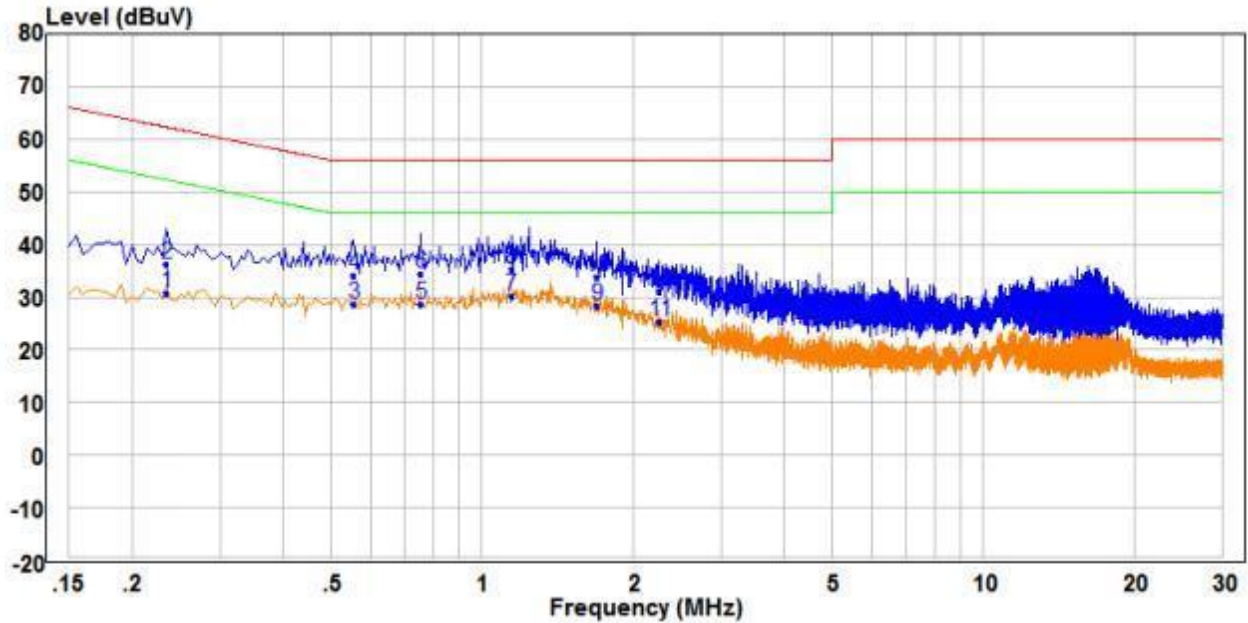
5.2 Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.207		
Test Method:	ANSI C63.10: 2013		
Test Frequency Range:	150kHz to 30MHz		
Limit:	Frequency range (MHz)	Limit (dBuV)	
		Quasi-peak	Average
	0.15-0.5	66 to 56*	56 to 46*
	0.5-5	56	46
	5-30	60	50
	* Decreases with the logarithm of the frequency.		
Test Procedure:	<ol style="list-style-type: none"> 1) The mains terminal disturbance voltage test was conducted in a shielded room. 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50Ω/50μH + 5Ω linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded. 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane, 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2. 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10: 2013 on conducted measurement. 		

<p>Test Setup:</p>	
<p>Test Mode:</p>	<p>Charging mode</p>
<p>Test Voltage:</p>	<p>AC 120V/60Hz</p>
<p>Test Results:</p>	<p>Pass</p>

Measurement Data

Live line:

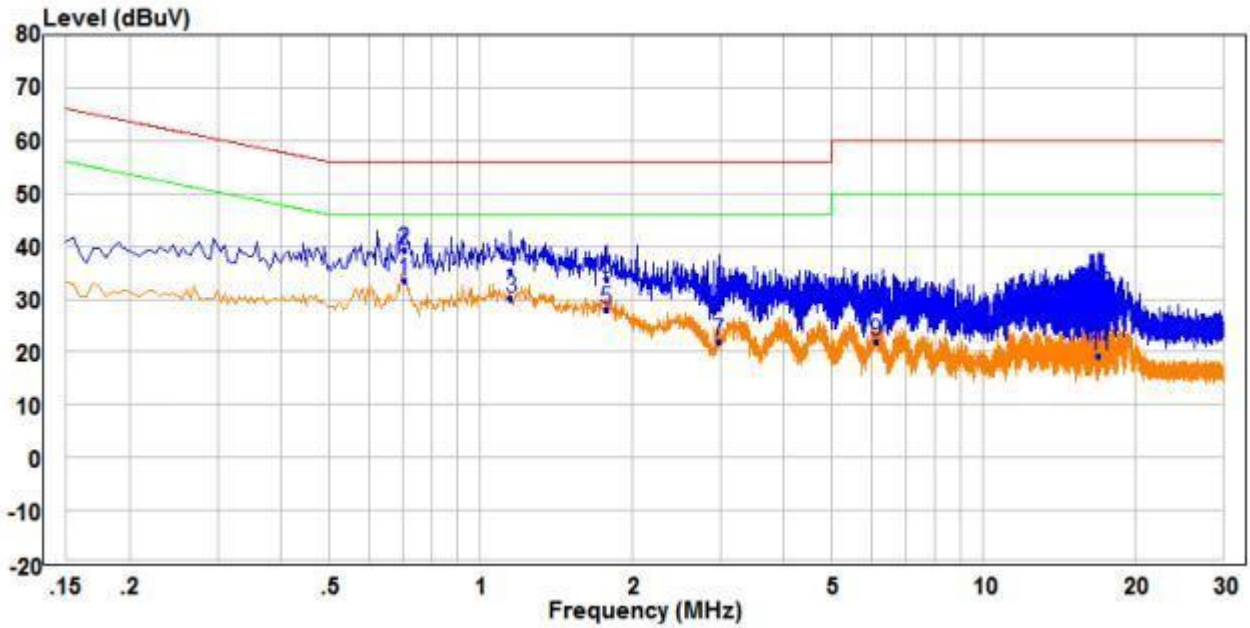


	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark	Pol/Phase
	MHz	dBuV	dB	dBuV	dBuV	dB		
1	0.235	21.23	9.56	30.79	52.27	-21.48	Average	Line
2	0.235	26.62	9.56	36.18	62.27	-26.09	QP	Line
3	0.555	19.01	9.76	28.77	46.00	-17.23	Average	Line
4	0.555	24.29	9.76	34.05	56.00	-21.95	QP	Line
5	0.755	18.81	9.86	28.67	46.00	-17.33	Average	Line
6	0.755	24.45	9.86	34.31	56.00	-21.69	QP	Line
7 PP	1.145	19.96	10.08	30.04	46.00	-15.96	Average	Line
8 QP	1.145	25.39	10.08	35.47	56.00	-20.53	QP	Line
9	1.695	17.18	11.18	28.36	46.00	-17.64	Average	Line
10	1.695	22.60	11.18	33.78	56.00	-22.22	QP	Line
11	2.265	13.99	11.38	25.37	46.00	-20.63	Average	Line
12	2.265	19.70	11.38	31.08	56.00	-24.92	QP	Line

Remark:

1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Final Test Level = Receiver Reading + LISN Factor + Cable Loss.
3. If the Peak value under Average limit, the Average value is not recorded in the report.

Neutral line:

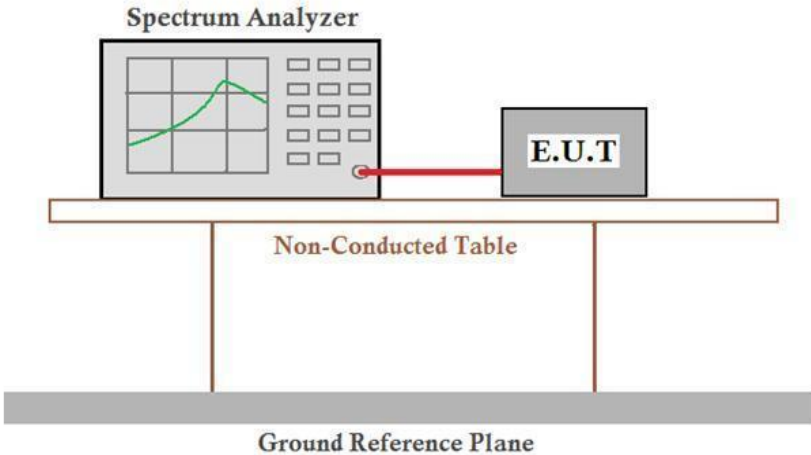


		Read		Limit	Over				
	Freq	Level	Factor	Level	Line	Limit	Remark	Pol/Phase	
	MHz	dBuV	dB	dBuV	dBuV	dB			
1	PP	0.705	23.59	9.90	33.49	46.00	-12.51	Average	Neutral
2	QP	0.705	29.33	9.90	39.23	56.00	-16.77	QP	Neutral
3		1.150	20.55	9.71	30.26	46.00	-15.74	Average	Neutral
4		1.150	25.66	9.71	35.37	56.00	-20.63	QP	Neutral
5		1.780	18.39	9.74	28.13	46.00	-17.87	Average	Neutral
6		1.780	23.95	9.74	33.69	56.00	-22.31	QP	Neutral
7		2.985	12.27	9.77	22.04	46.00	-23.96	Average	Neutral
8		2.985	18.63	9.77	28.40	56.00	-27.60	QP	Neutral
9		6.135	12.25	9.82	22.07	50.00	-27.93	Average	Neutral
10		6.135	18.30	9.82	28.12	60.00	-31.88	QP	Neutral
11		17.000	9.45	9.77	19.22	50.00	-30.78	Average	Neutral
12		17.000	21.00	9.77	30.77	60.00	-29.23	QP	Neutral

Remark:

1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Final Test Level = Receiver Reading + LISN Factor + Cable Loss.
3. If the Peak value under Average limit, the Average value is not recorded in the report.

5.3 Conducted Peak Output Power

Test Requirement:	47 CFR Part 15C Section 15.247 (b)(1)
Test Method:	ANSI C63.10 2013
Test Setup:	 <p style="text-align: center;">Remark: Offset=Cable loss+ attenuation factor.</p>
Limit:	30dBm
Test Mode:	Transmitting with GFSK modulation.
Test Results:	Pass

Measurement Data

Ant1:

GFSK mode (1Mbps)				
Test channel	Peak Output Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
Lowest	9.07	6.32	28.71	Pass
Middle	8.93	5.89	28.71	Pass
Highest	5.35	3.42	28.71	Pass

Ant2:

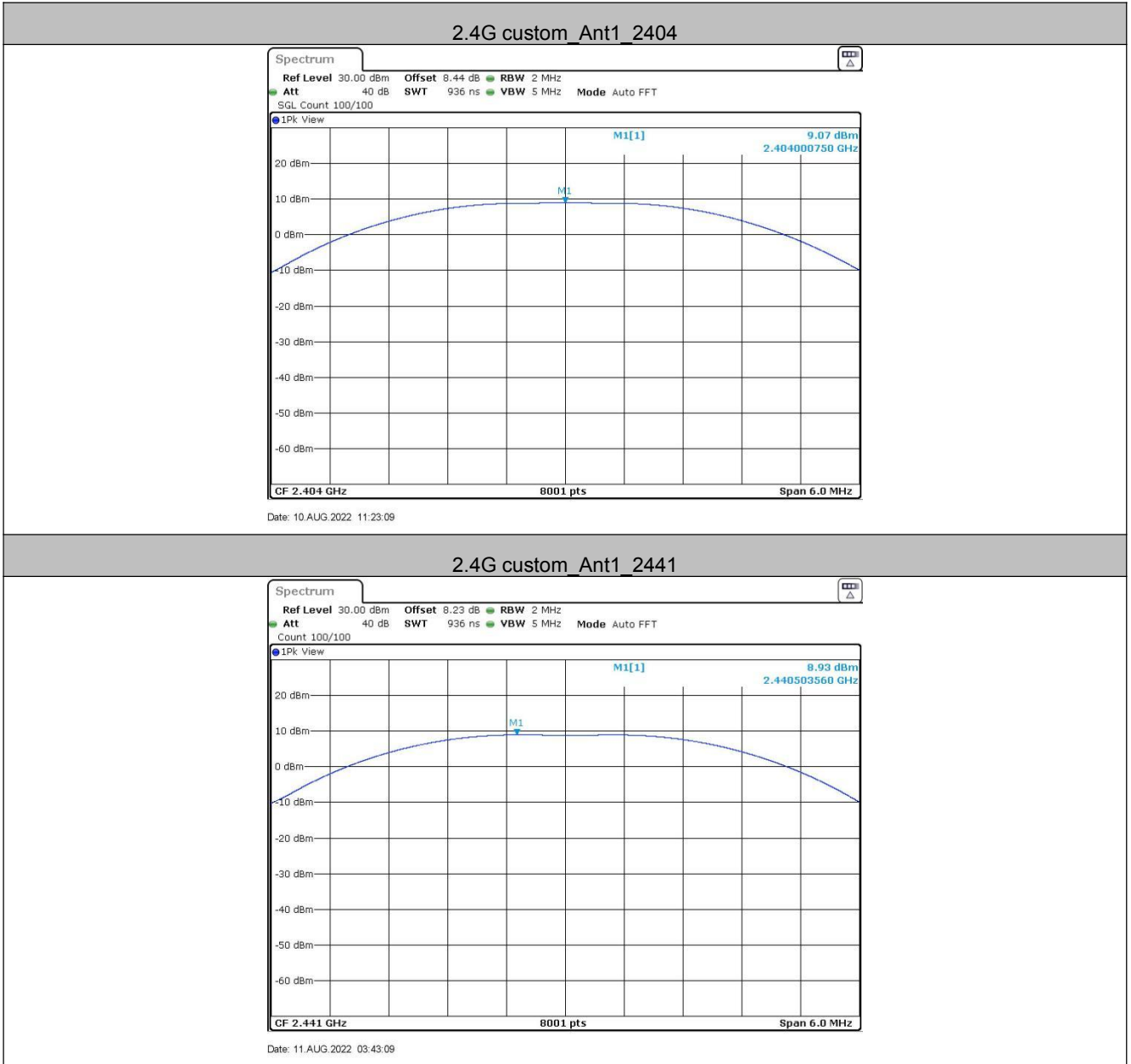
GFSK mode (1Mbps)				
Test channel	Peak Output Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
Lowest	-29.64	-26.61	30.00	Pass
Middle	-29.67	-26.63	30.00	Pass
Highest	-30.65	-27.52	30.00	Pass

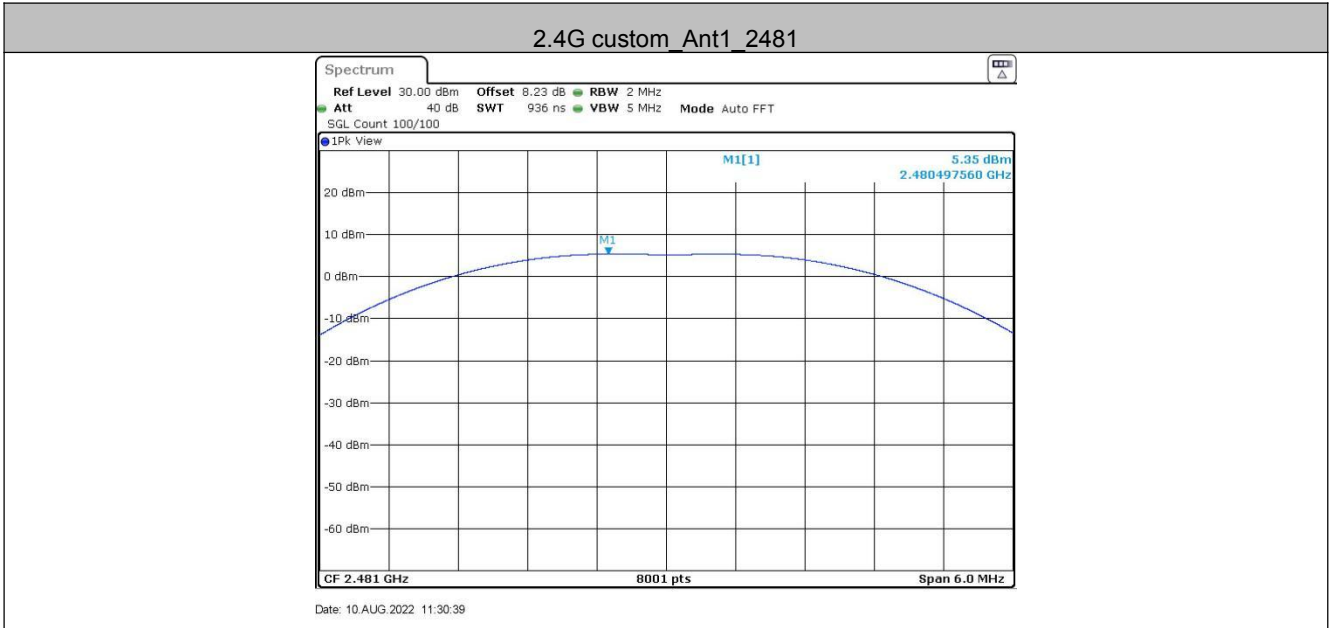
Mimo:

GFSK mode (1Mbps)				
Test channel	Peak Output Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
Lowest	9.07	6.32	26.69	Pass
Middle	8.93	5.89	26.69	Pass
Highest	5.35	3.42	26.69	Pass

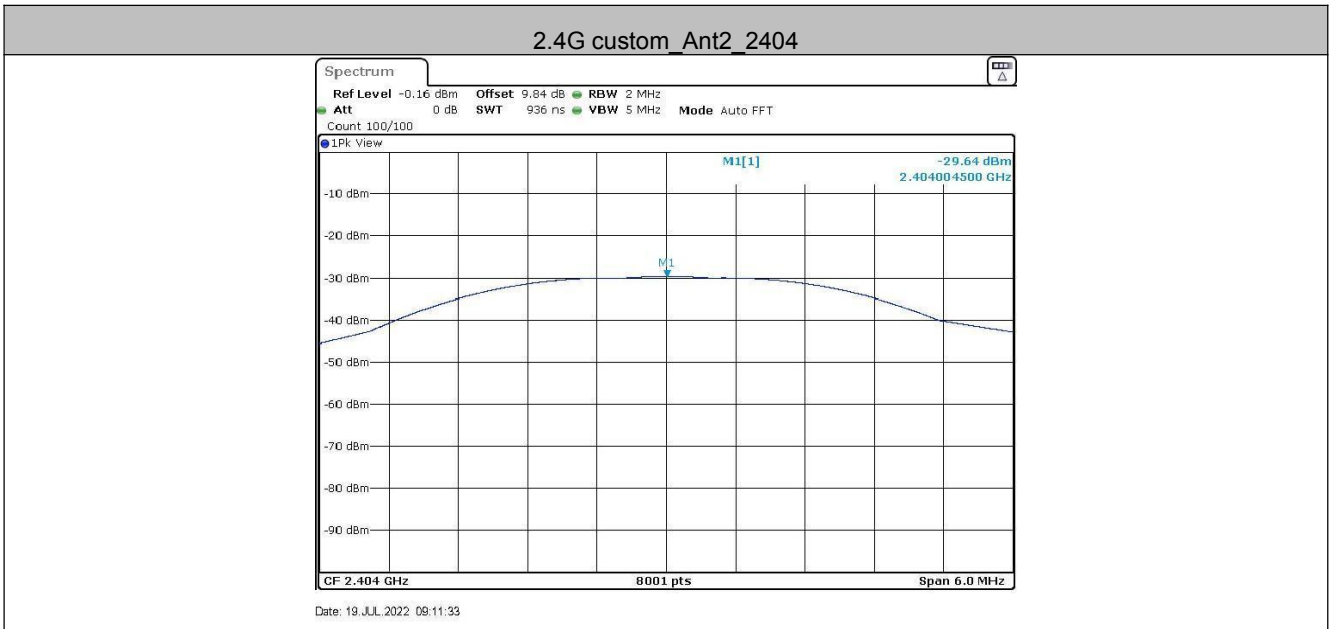
Mimo power calculation formula: $10 * \text{LOG}[10^{(\text{ANT1}/10)} + 10^{(\text{ANT2}/10)}]$

Ant1:

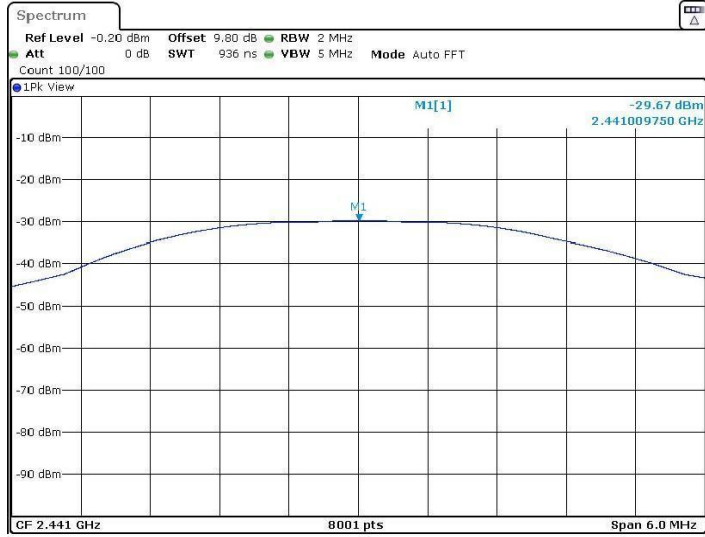




Ant2:

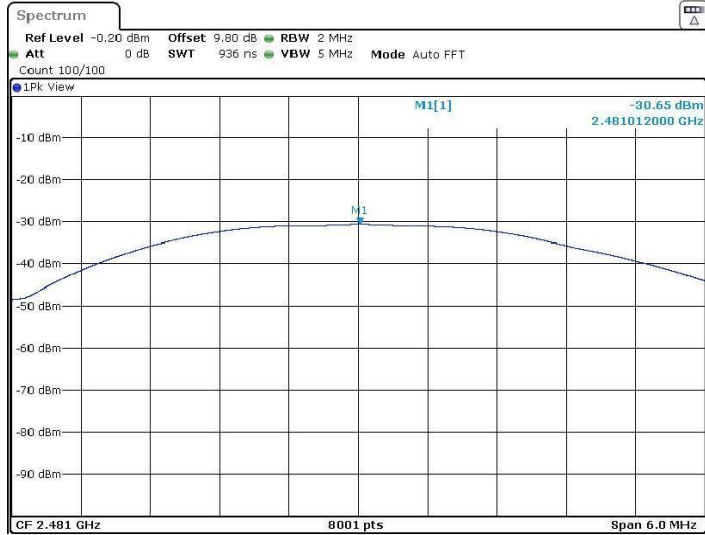


2.4G custom_Ant2_2441



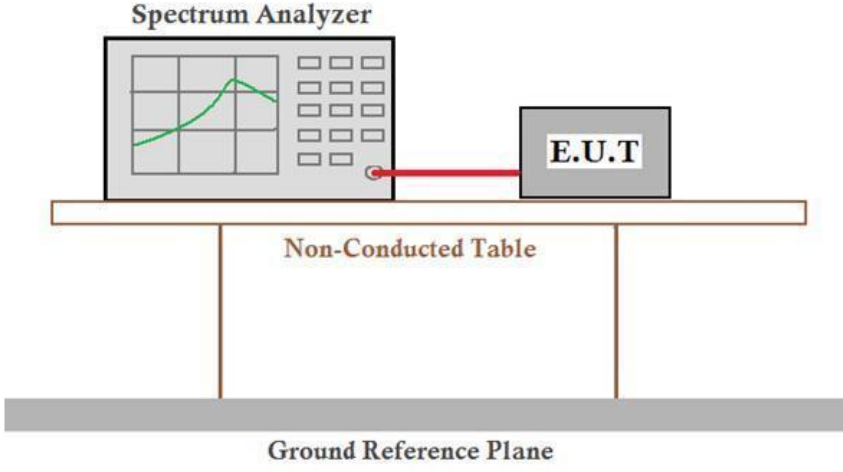
Date: 19.JUL.2022 09:14:58

2.4G custom_Ant2_2481



Date: 19.JUL.2022 09:17:05

5.4 6dB Occupy Bandwidth

Test Requirement:	47 CFR Part 15C Section 15.247 (a)(2)
Test Method:	ANSI C63.10 2013
Test Setup:	 <p style="text-align: center;"><i>Remark: Offset=Cable loss+ attenuation factor.</i></p>
Limit:	≥ 500 kHz
Instruments Used:	Refer to section 4.11 for details.
Test Results:	Pass

Measurement Data

Ant1:

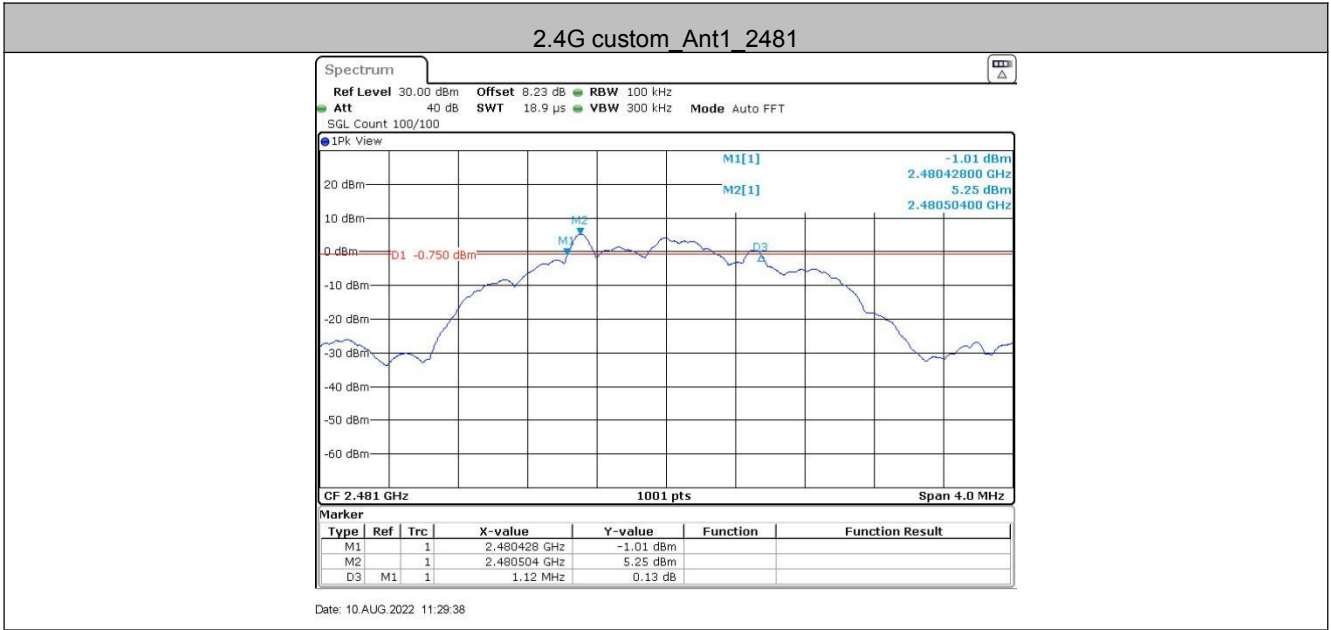
GFSK mode (1Mbps)			
Test channel	6dB Occupy Bandwidth (MHz)	Limit (kHz)	Result
Lowest	1.240	≥500	Pass
Middle	0.892	≥500	Pass
Highest	1.120	≥500	Pass

Ant2:

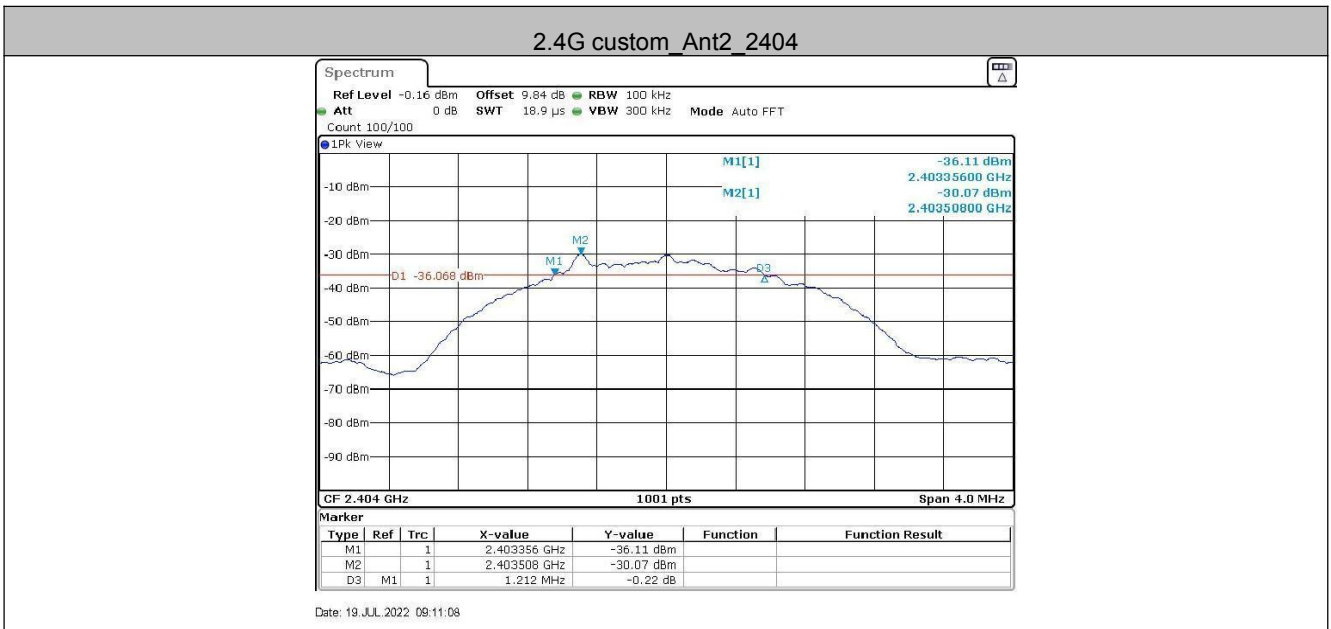
GFSK mode (1Mbps)			
Test channel	6dB Occupy Bandwidth (MHz)	Limit (kHz)	Result
Lowest	1.212	≥500	Pass
Middle	1.180	≥500	Pass
Highest	1.144	≥500	Pass

Ant1:

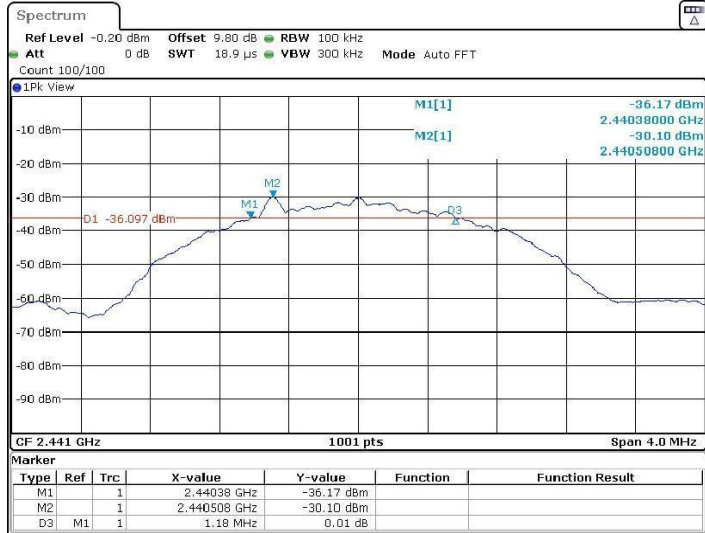




Ant2:

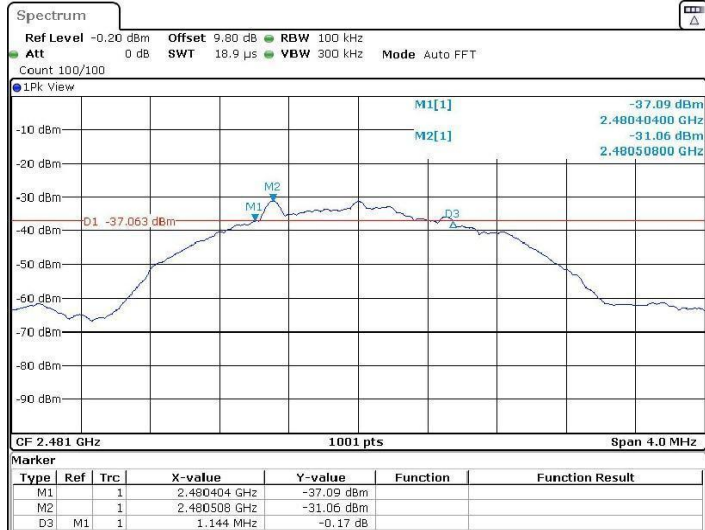


2.4G custom_Ant2_2441



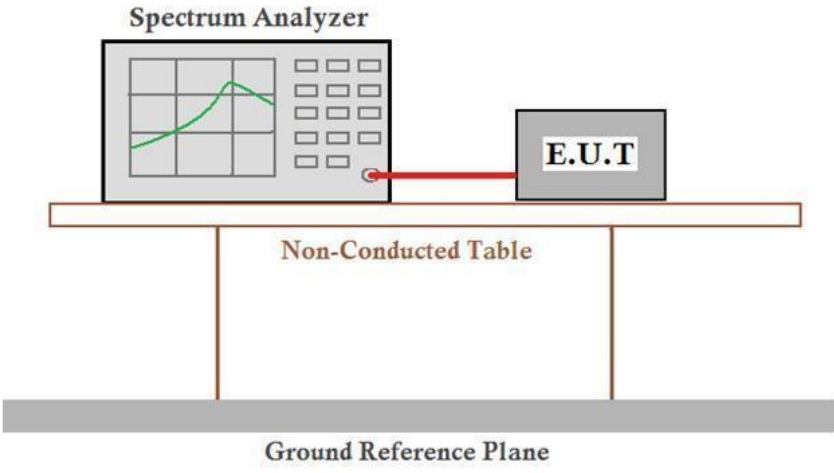
Date: 19.JUL.2022 09:14:31

2.4G custom_Ant2_2481



Date: 19.JUL.2022 09:16:36

5.5 Power Spectral Density

Test Requirement:	47 CFR Part 15C Section 15.247 (e)
Test Method:	ANSI C63.10 2013
Test Setup:	 <p>Remark: Offset=Cable loss+ attenuation factor.</p>
Limit:	≤8.00dBm/3kHz
Test Mode:	Transmitting with GFSK modulation.
Test Results:	Pass

Measurement Data

Ant1:

GFSK mode (1Mbps)			
Test channel	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
Lowest	3.95	≤6.71	Pass
Middle	3.04	≤6.71	Pass
Highest	2.18	≤6.71	Pass

Ant2:

GFSK mode (1Mbps)			
Test channel	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
Lowest	-35.96	≤8.00	Pass
Middle	-33.69	≤8.00	Pass
Highest	-36.25	≤8.00	Pass

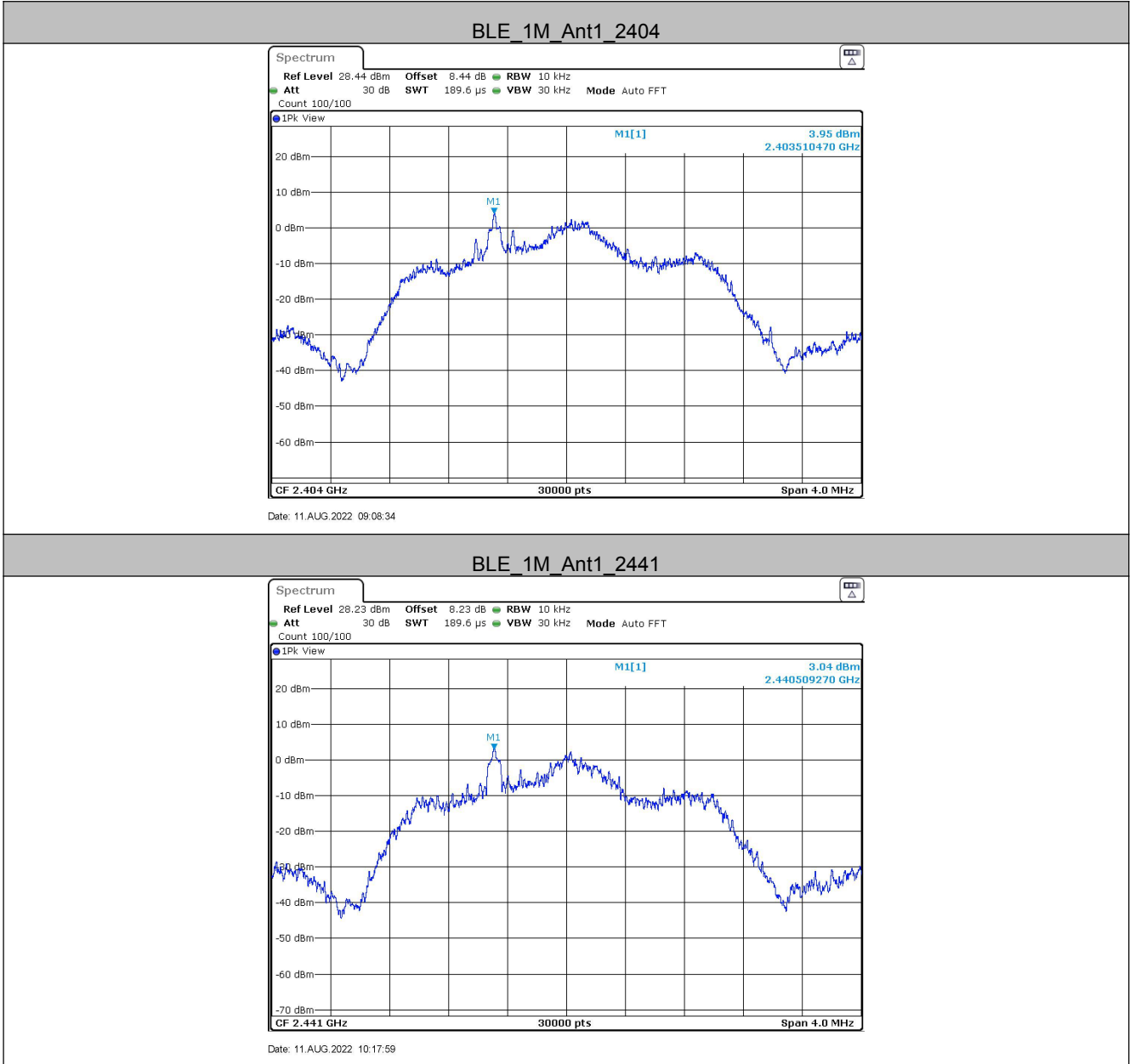
Mimo:

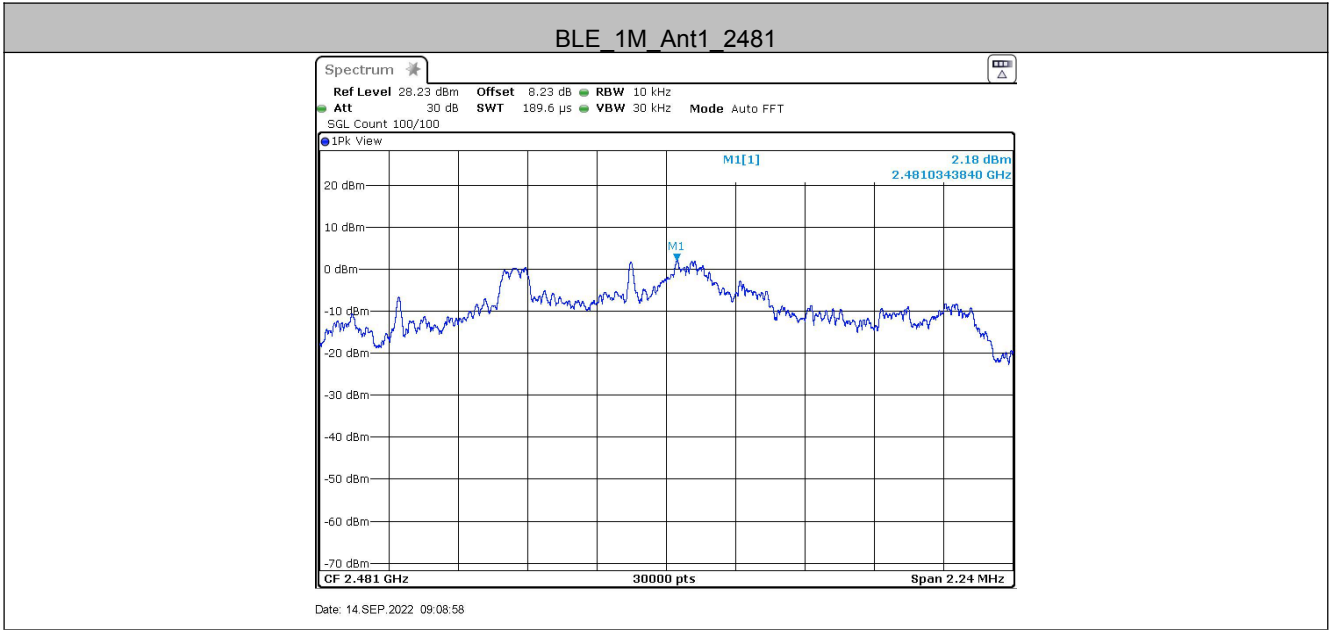
GFSK mode (1Mbps)			
Test channel	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
Lowest	3.95	≤4.69	Pass
Middle	3.04	≤4.69	Pass
Highest	2.18	≤4.69	Pass

Mimo power calculation formula: $10 * \text{LOG}[10^{(\text{ANT1}/10)} + 10^{(\text{ANT2}/10)}]$

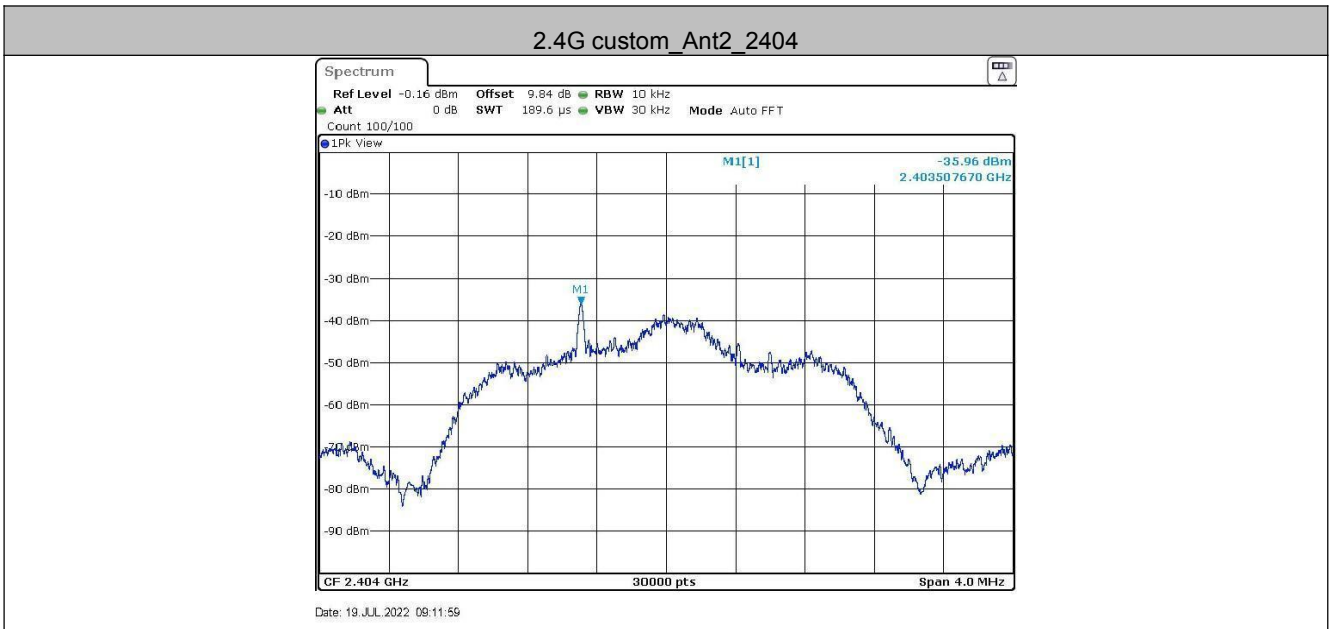
Test plot as follows:

Ant1:

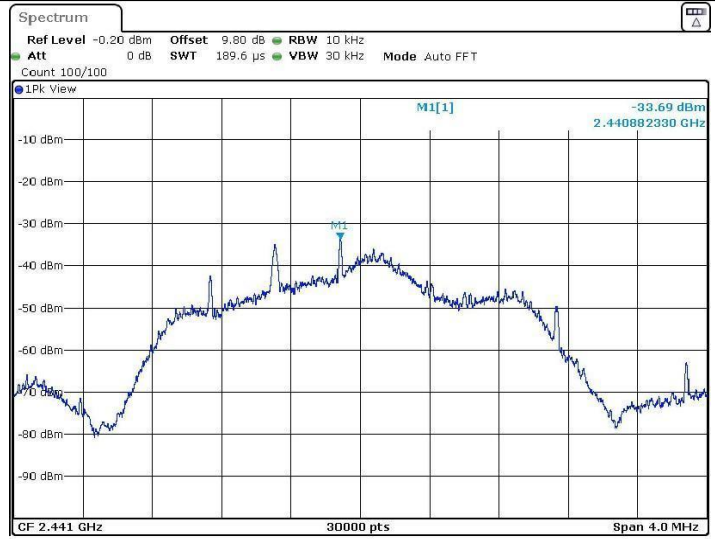




Ant2:

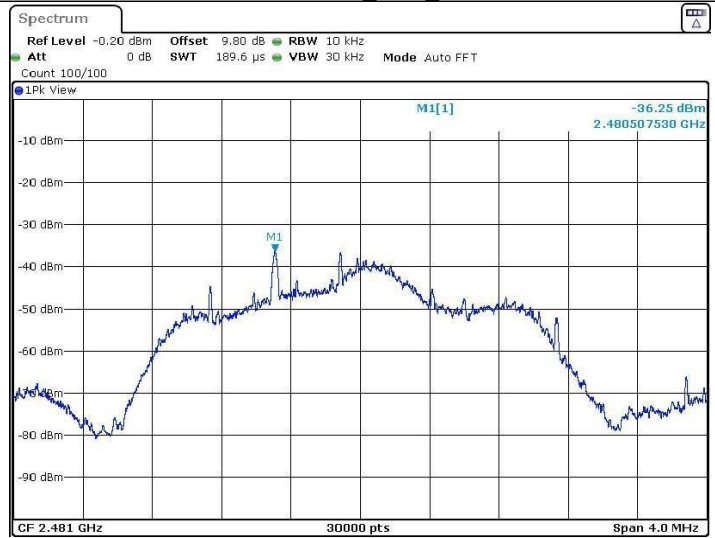


2.4G custom_Ant2_2441



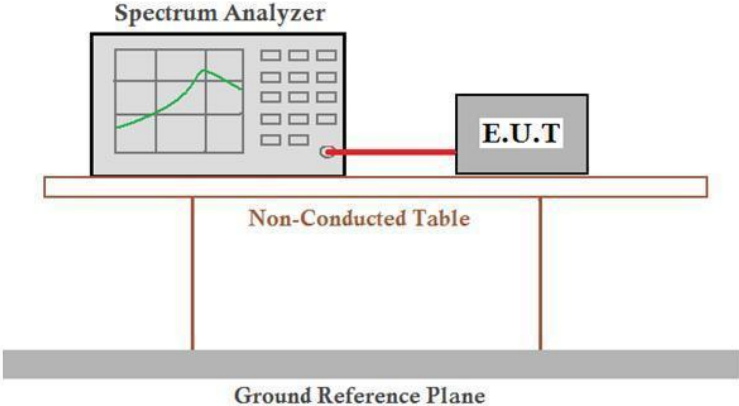
Date: 19.JUL.2022 09:15:35

2.4G custom_Ant2_2481



Date: 19.JUL.2022 09:17:22

5.6 Band-edge for RF Conducted Emissions

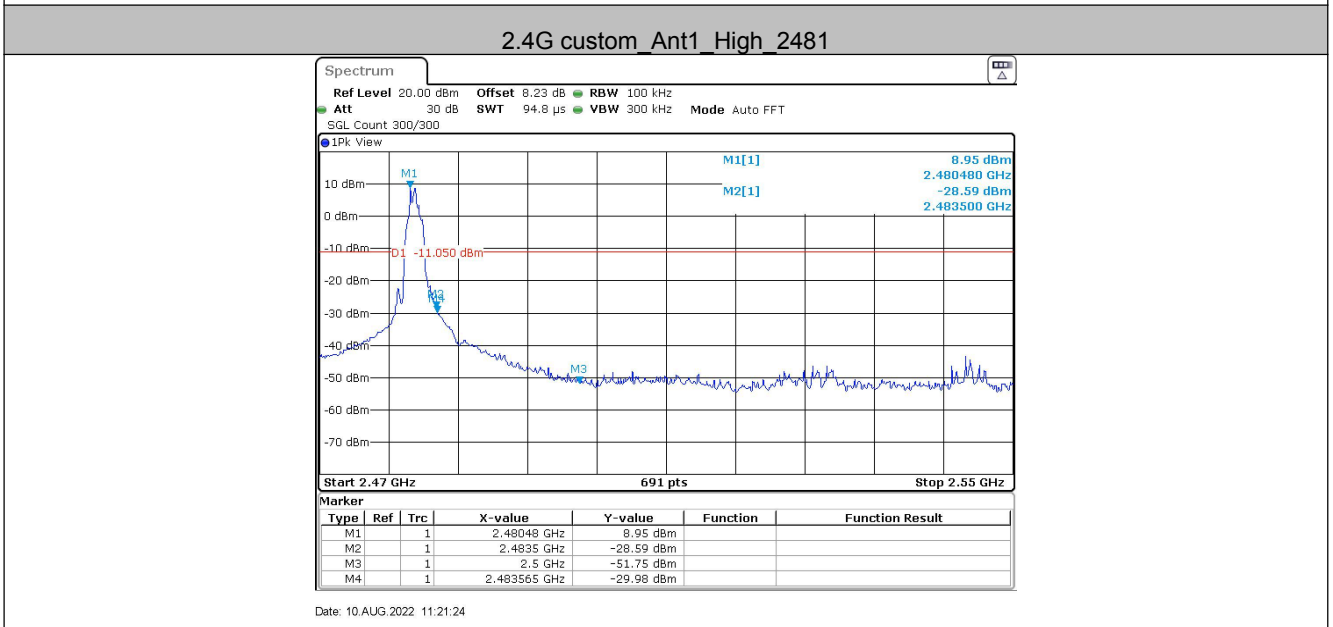
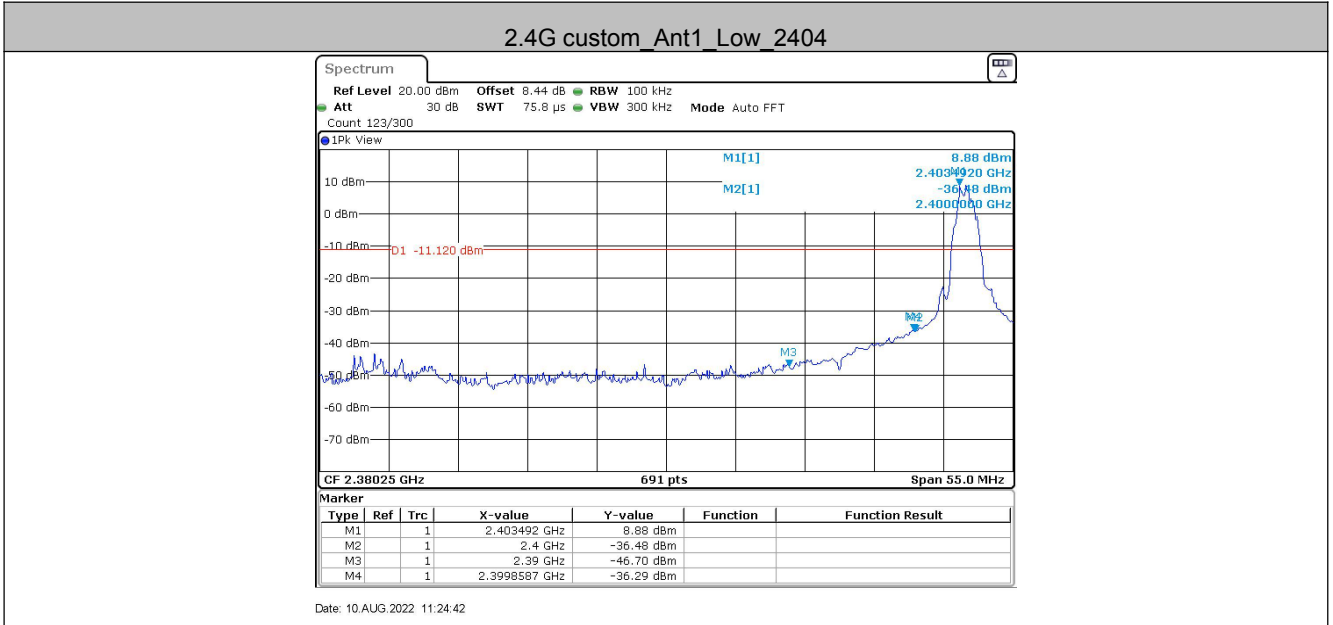
Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10 2013
Test Setup:	 <p>Remark: $Offset = \text{Cable loss} + \text{attenuation factor}$.</p>
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.
Test Mode:	Transmitting with GFSK modulation.
Test Results:	Pass

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
2.4G custom	Ant1	Low	2404	8.88	-36.29	≤ -11.12	PASS
		High	2481	8.95	-29.98	≤ -11.05	PASS

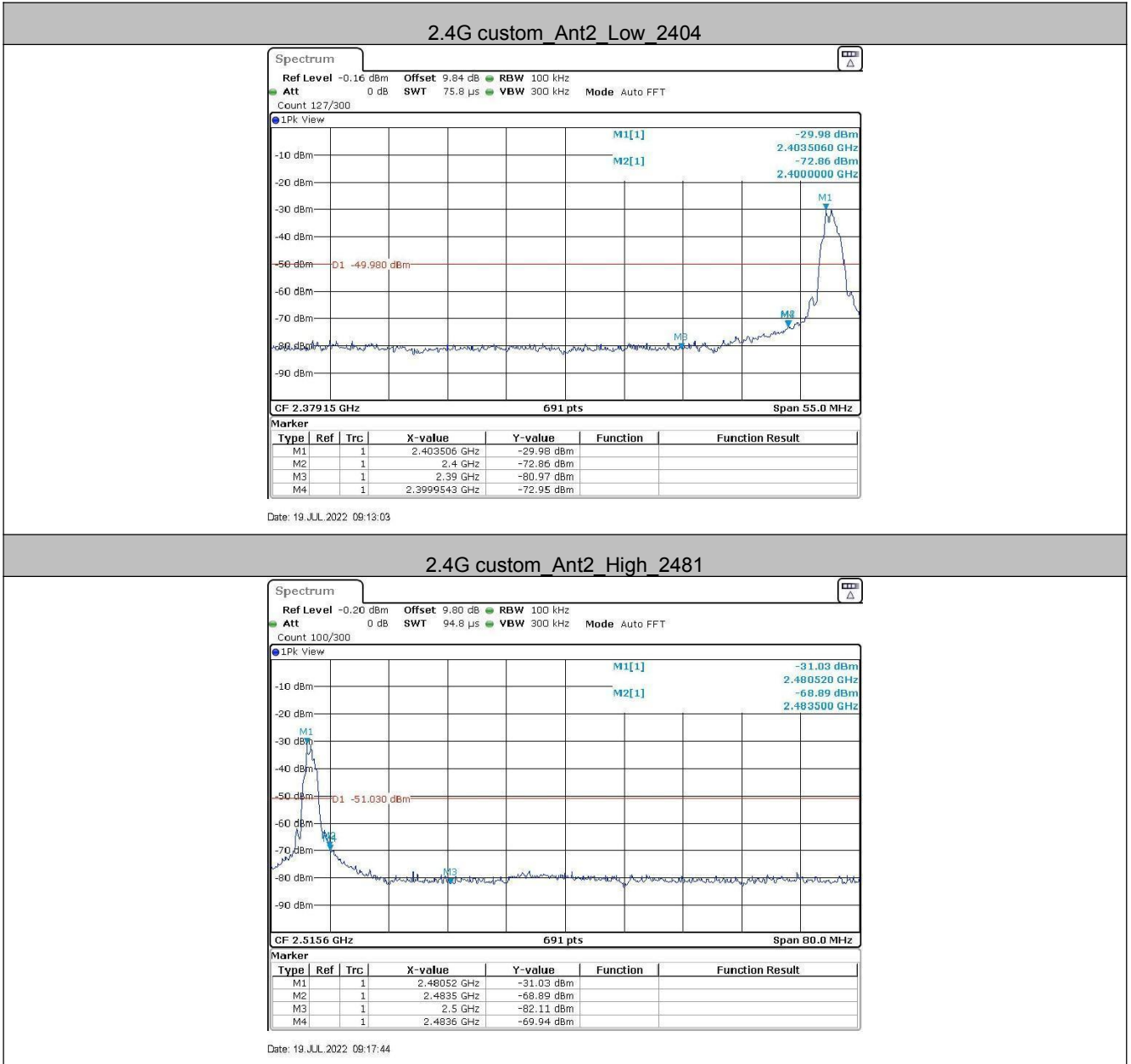
TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
2.4G custom	Ant2	Low	2404	-29.98	-72.95	≤ -49.98	PASS
		High	2481	-31.03	-69.94	≤ -51.03	PASS

Test plot as follows:

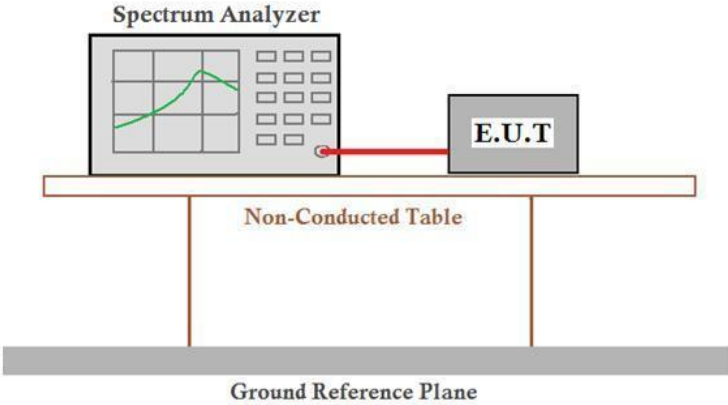
Ant1:



Ant2:

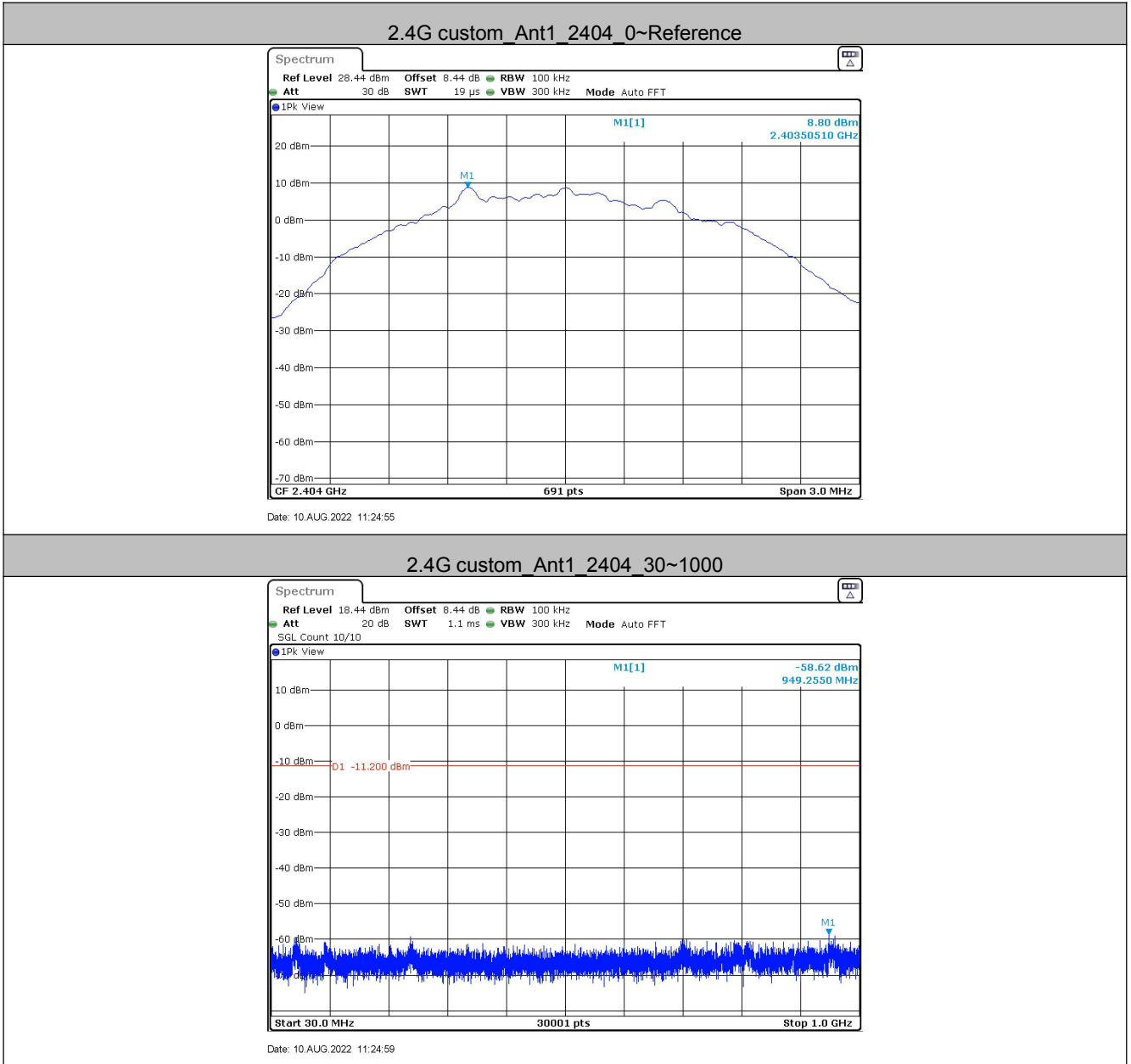


5.7 Spurious RF Conducted Emissions

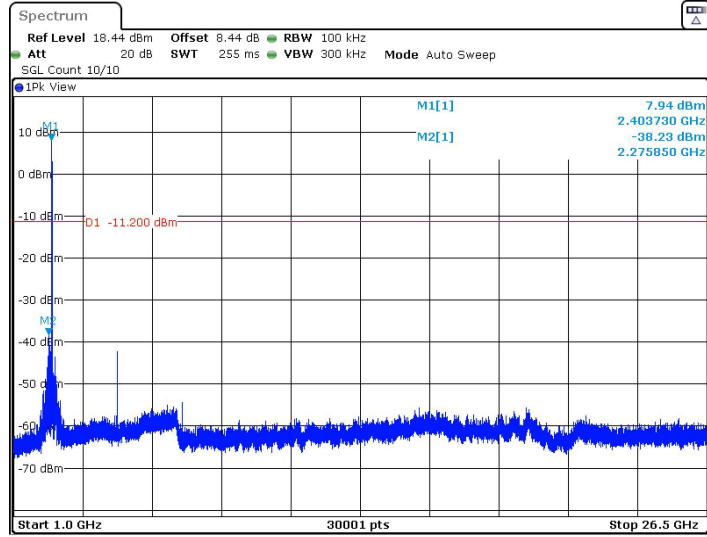
Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10 2013
Test Setup:	 <p style="text-align: center;"><i>Remark: Offset=Cable loss+ attenuation factor.</i></p>
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.
Test Mode:	Transmitting with GFSK modulation.
Test Results:	Pass

Test plot as follows:

Ant1:

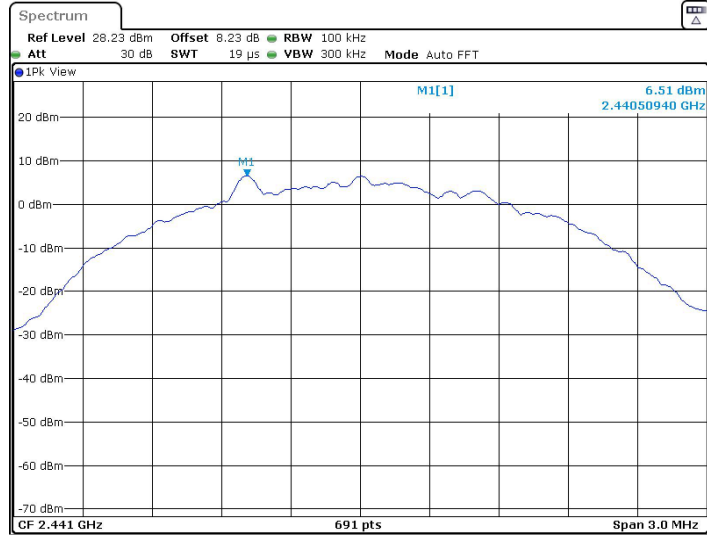


2.4G custom_Ant1_2404_1000~26500



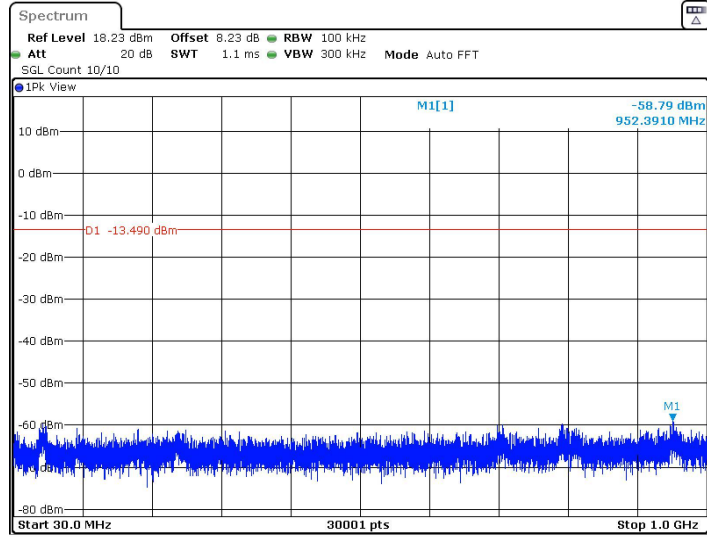
Date: 10.AUG.2022 11:25:21

2.4G custom_Ant1_2441_0~Reference



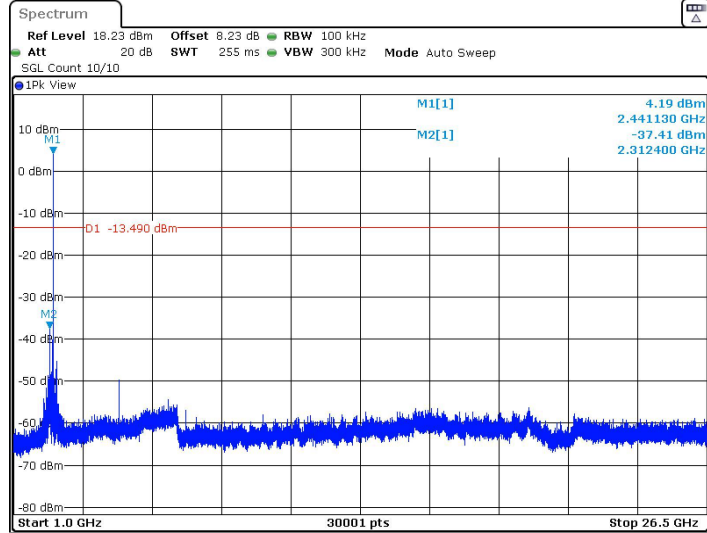
Date: 11.AUG.2022 03:44:00

2.4G custom_Ant1_2441_30~1000



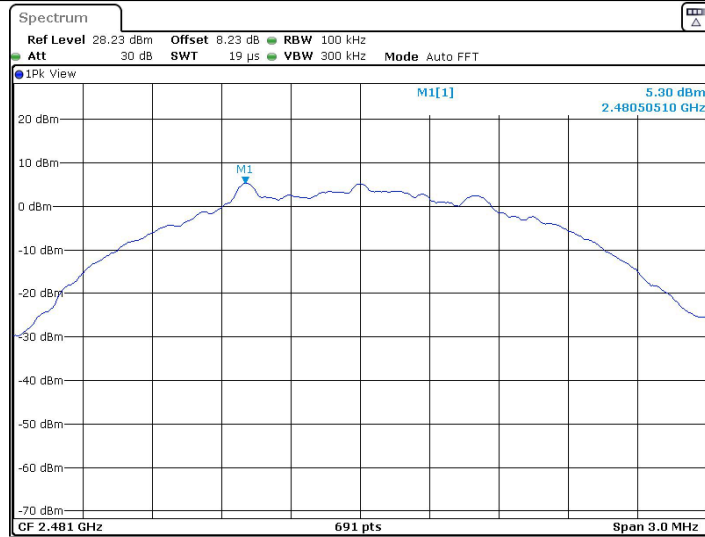
Date: 11.AUG.2022 03:44:04

2.4G custom_Ant1_2441_1000~26500



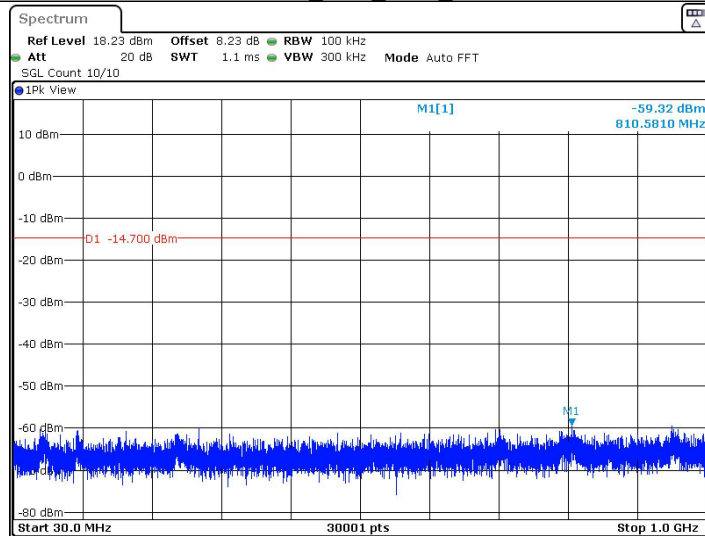
Date: 11.AUG.2022 03:44:26

2.4G custom_Ant1_2481_0~Reference

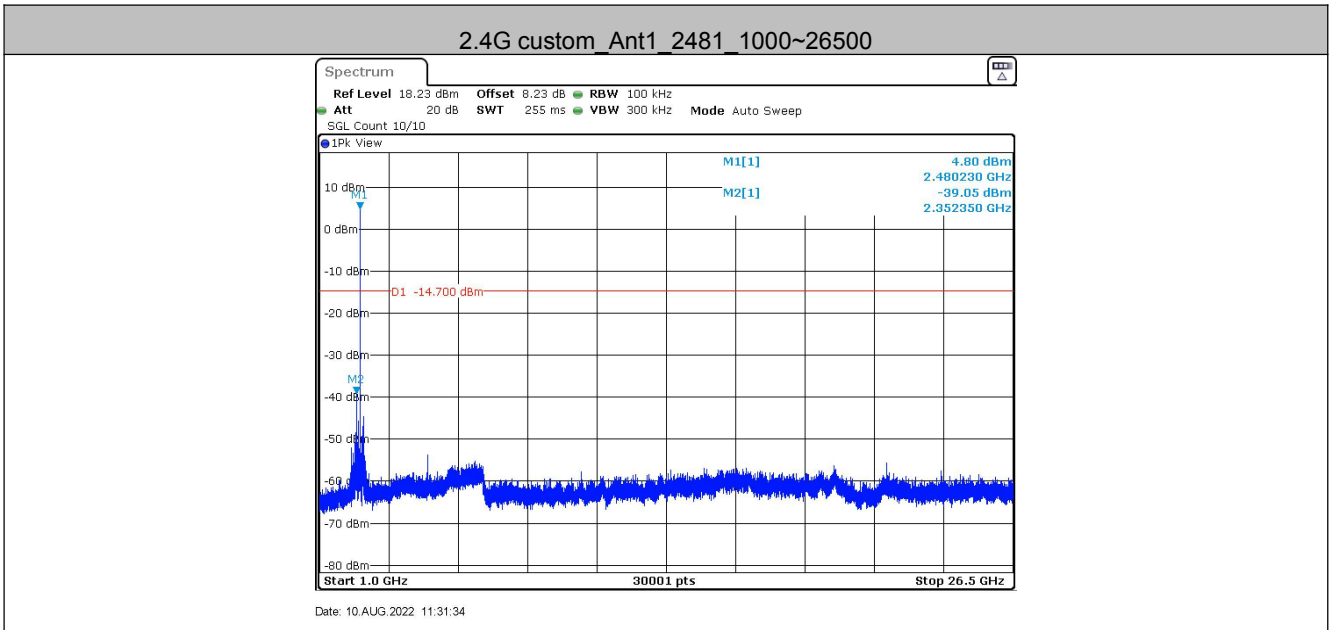


Date: 10.AUG.2022 11:31:08

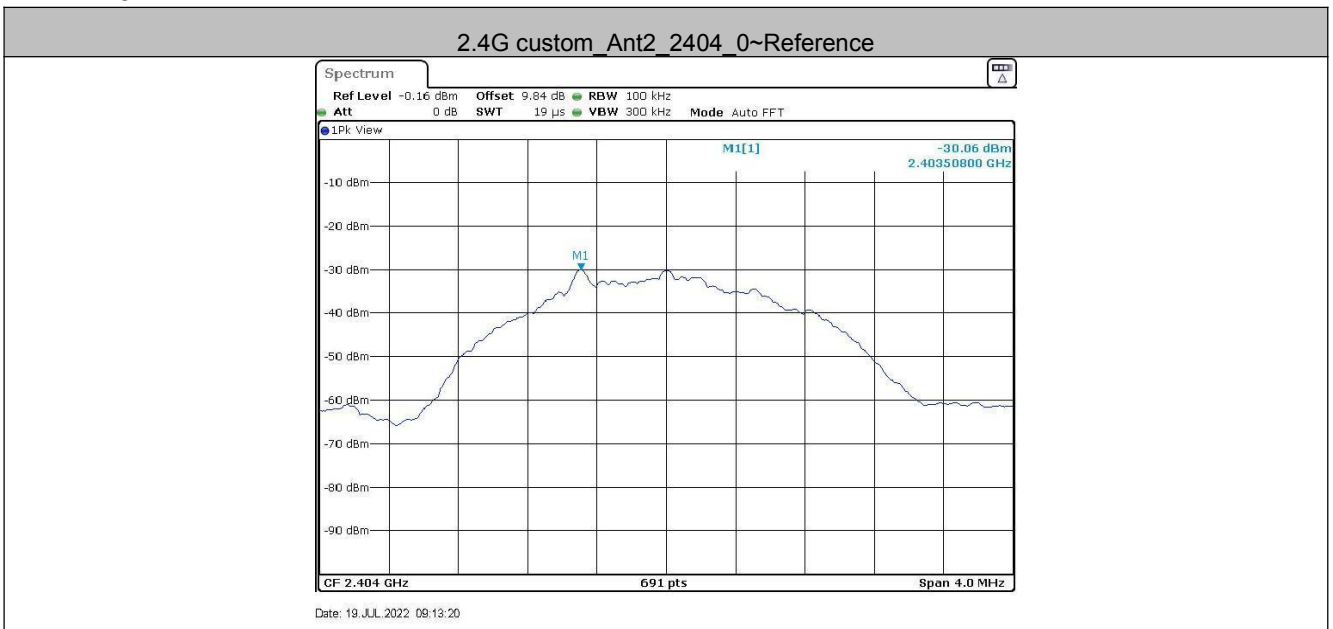
2.4G custom_Ant1_2481_30~1000



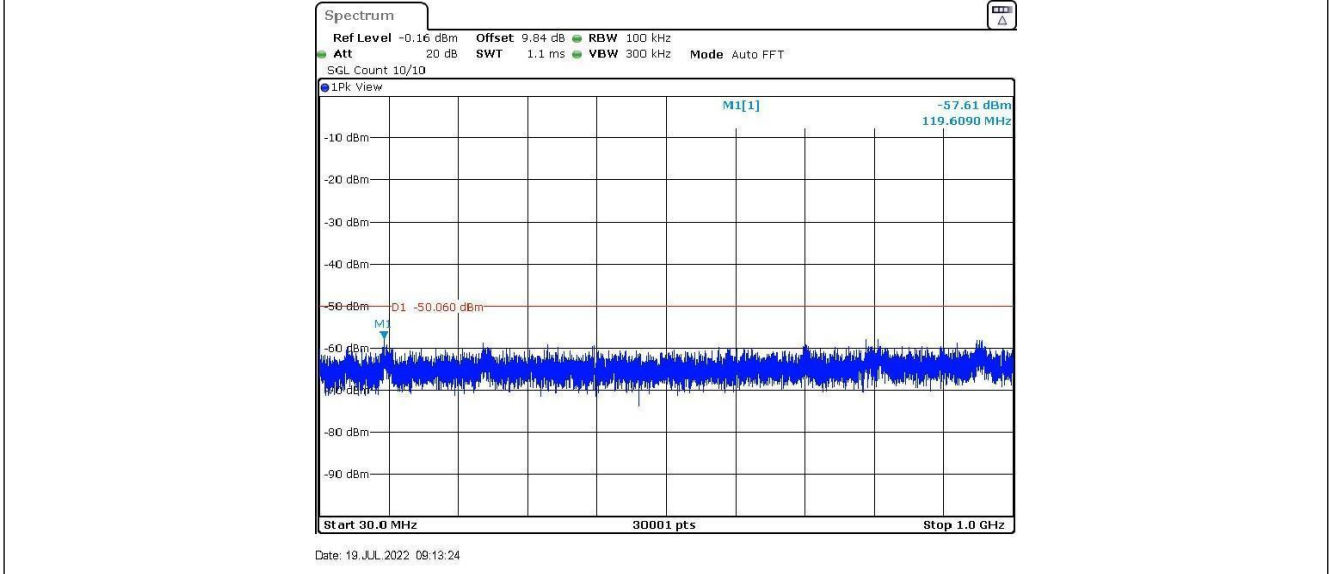
Date: 10.AUG.2022 11:31:12



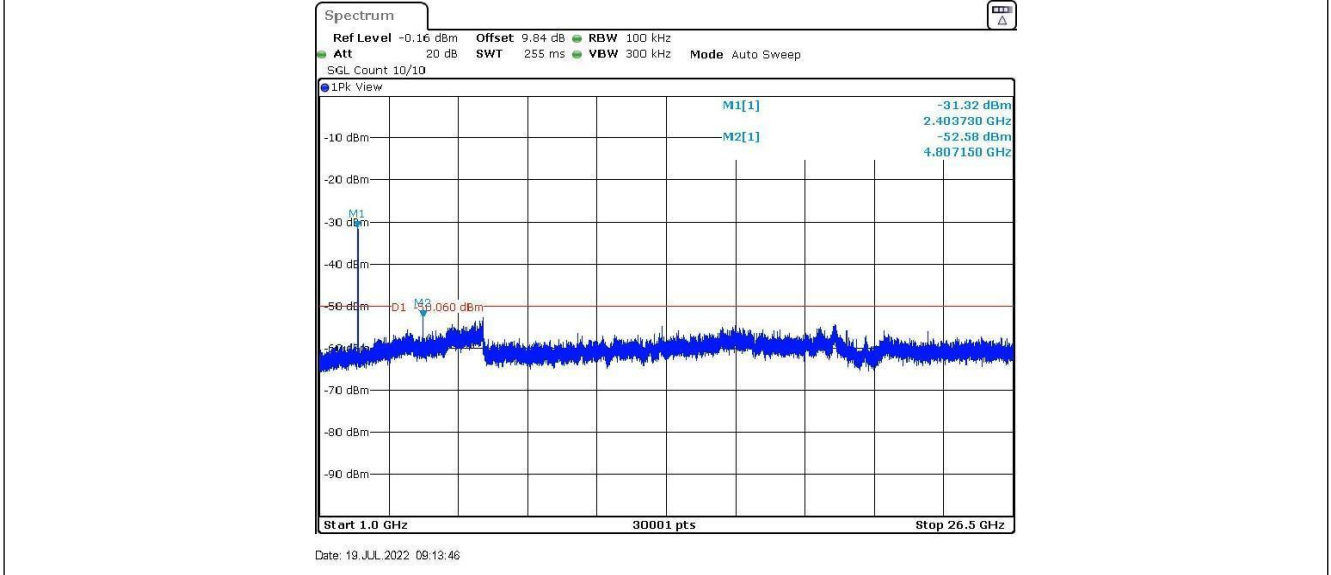
Ant2:



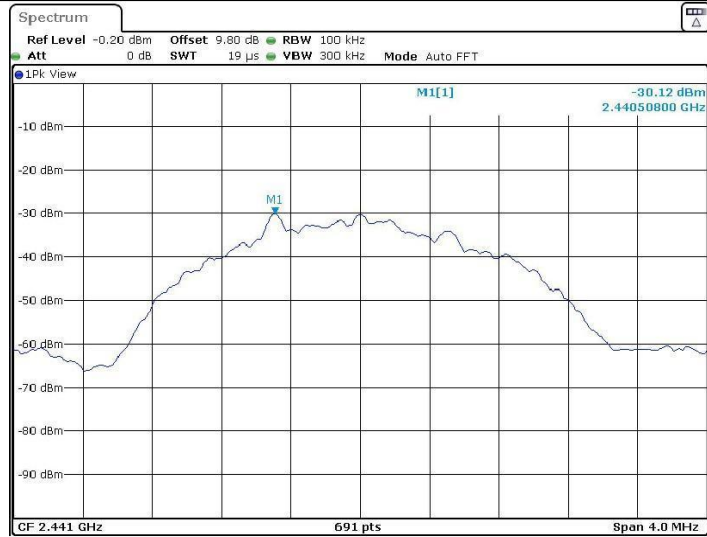
2.4G custom_Ant2_2404_30~1000



2.4G custom_Ant2_2404_1000~26500

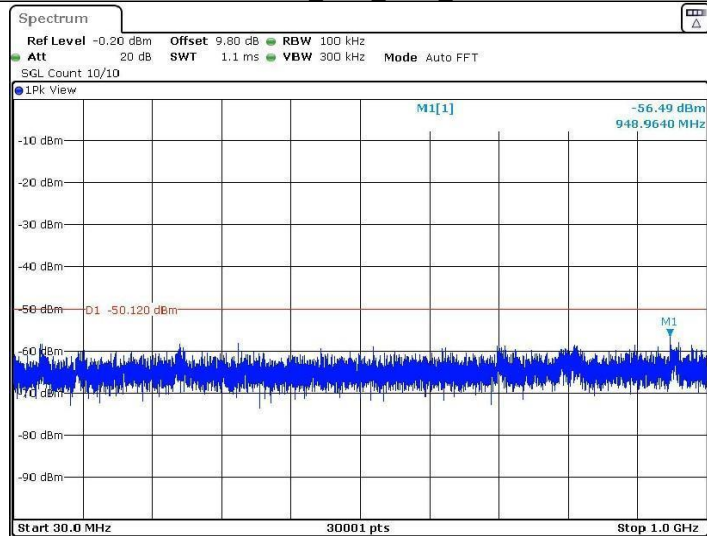


2.4G custom_Ant2_2441_0~Reference



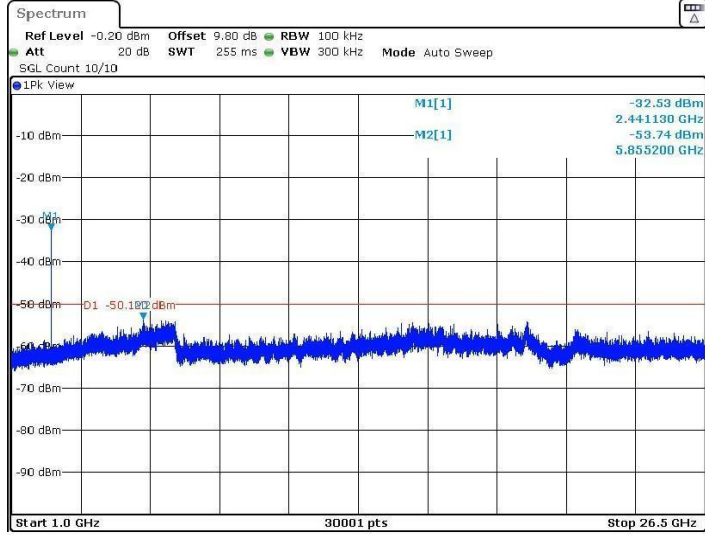
Date: 19.JUL.2022 09:15:48

2.4G custom_Ant2_2441_30~1000



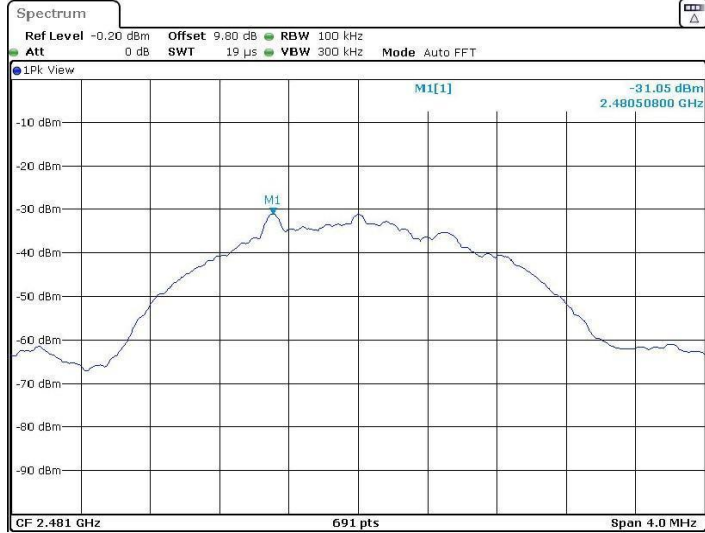
Date: 19.JUL.2022 09:15:53

2.4G custom_Ant2_2441_1000~26500



Date: 19.JUL.2022 09:16:15

2.4G custom_Ant2_2481_0~Reference



Date: 19.JUL.2022 09:17:58