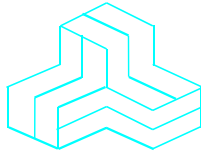


ENGINEERING TEST REPORT



**XBee RR Pro
Model: XBPRR
FCC ID: MCQ-XBPRR**

Applicant:

Digi International Inc
9350 Excelsior Blvd. Suite 700
Hopkins, MN 55343

In Accordance With

**Federal Communications Commission (FCC)
Part 15, Subpart C, Section 15.247
Digital Modulation Systems (DTS) Operating in 2400 – 2483.5 MHz Band**

UltraTech's File No.: 23DIGI198_FCC15C247B

This Test report is Issued under the Authority of
Tri M. Luu
Vice President of Engineering
UltraTech Group of Labs

Date: September 11, 2023

Report Prepared by: Dan Huynh

Tested by: Angus Au

Issued Date: September 11, 2023

Test Dates:
August 3, 8, 9 & 14, 2023

- *The results in this Test Report apply only to the sample(s) tested, and the sample tested is randomly selected.*
- *This report must not be used by the client to claim product endorsement by any agency of the US Government.*
- *This test report shall not be reproduced, except in full, without a written approval from UltraTech*

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#0685
ISO/IEC 17065
Product Certification Body

0685



APEC TEL CA0001



1309



CA 0001/2049



AT-1945



SL2-IN-E-1119R



Korea KCC-RRA
CA0001

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EXHIBIT 1. INTRODUCTION

1.1. SCOPE

Reference:	FCC Part 15, Subpart C, Section 15.247
Title:	Code of Federal Regulations (CFR), Title 47 – Telecommunication, Part 15 – Radio Frequency Devices
Purpose of Test:	Class II Permissive Change to add new antenna type
Test Procedures:	▪ ANSI C63.4 ▪ ANSI C63.10 ▪ FCC KDB Publication No. 558074 D01 15.247 Meas Guidance v05r02
Environmental Classification:	☒ Commercial, industrial or business environment ☒ Residential environment

1.2. RELATED SUBMITTAL(S)/GRANT(S)

None.

1.3. NORMATIVE REFERENCES

Publication	Year	Title
47 CFR Parts 0-19	2023	Code of Federal Regulations (CFR), Title 47 – Telecommunication
ANSI C63.4	2014	American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 KHz to 40 GHz
ANSI C63.10	2013	American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices
FCC, KDB Publication No. 558074 D01 15.247 Meas Guidance v05r02	2019	GUIDANCE FOR COMPLIANCE MEASUREMENTS ON DIGITAL TRANSMISSION SYSTEM, FREQUENCY HOPPING SPREAD SPECTRUM SYSTEM, AND HYBRID SYSTEM DEVICES OPERATING UNDER SECTION 15.247 OF THE FCC RULES

EXHIBIT 2. PERFORMANCE ASSESSMENT

2.1. CLIENT INFORMATION

Applicant	
Name:	Digi International Inc
Address:	9350 Excelsior Blvd. Suite 700 Hopkins, MN 55343 USA

Manufacturer	
Name:	Digi International Inc
Address:	10000 W 76th Street Eden Prairie, MN 55344 USA

2.2. EQUIPMENT UNDER TEST (EUT) INFORMATION

The following information (with the exception of the Date of Receipt) has been supplied by the applicant.

Brand Name:	Digi International Inc
Product Name:	XBee RR Pro
Model Name or Number:	XBPRR
Serial Number:	Test Sample
Type of Equipment:	Digital Transmission System (DTS)
Input Power Supply Type:	External DC Power Supply
Primary User Functions of EUT:	Digital Communications

2.3. EUT'S TECHNICAL SPECIFICATIONS

Transmitter	
Equipment Type:	Mobile Base station (fixed use)
Intended Operating Environment:	Commercial, industrial or business environment Residential environment
Power Supply Requirement:	1.71 to 3.8VDC (3.3V is nominal)
RF Output Power Rating: maximum peak conducted power	-1.21 dBm to 8.30 dBm (1 Mbps) -1.19 dBm to 8.31 dBm (2Mbps)
Operating Frequency Range:	2402 - 2480 MHz (1 Mbps) 2404 - 2478 MHz (2 Mbps)
RF Output Impedance:	50 Ω
Duty Cycle:	Continuous
Modulation Type:	GFSK
Antenna Connector Types:	Integral, embedded PCB F-Style antenna

2.4. ASSOCIATED ANTENNA DESCRIPTIONS

Manufacturer:	Digi International Inc.
Type:	Embedded F-Style Antenna
Part Number:	31000017-01
Frequency:	2.4-2.5 GHz (target)
Gain (Peak):	-0.5 dBi
Revision	A

2.5. LIST OF EUT'S PORTS

Port Number	EUT's Port Description	Number of Identical Ports	Connector Type	Cable Type (Shielded/Non-shielded)
1	UART, GPIO	1	Custom 34 pin interface	Direct connection

2.6. ANCILLARY EQUIPMENT

The EUT was tested while connected to the following representative configuration of ancillary equipment necessary to exercise the ports during tests:

Ancillary Equipment # 1	
Description:	Test Jig
Brand name:	Digi International
Model Name or Number:	N/A
Serial Number:	N/A
Connected to EUT's Port:	Pin header

Ancillary Equipment # 2	
Description:	Laptop
Brand name:	HP
Model Name or Number:	EliteBook 820
Serial Number:	N/A
Connected to EUT's Port:	EUT Test Jig

EXHIBIT 3. EUT OPERATING CONDITIONS AND CONFIGURATIONS DURING TESTS

3.1. CLIMATE TEST CONDITIONS

The climate conditions of the test environment are as follows:

Temperature:	21 to 23 °C
Humidity:	45 to 58%
Pressure:	102 kPa
Power Input Source:	3.3 VDC nominal, 3.8 VDC Max.

3.2. OPERATIONAL TEST CONDITIONS & ARRANGEMENT FOR TESTS

Operating Modes:	The transmitter was operated in a continuous transmission mode with the carrier modulated as specified in the Test Data.
Special Test Software:	Test software provided by the Applicant to operate the EUT at each channel frequency continuously and in the range of typical modes of operation.
Special Hardware Used:	Test Jig
Transmitter Test Antenna:	Integral, embedded PCB F-Style antenna

Transmitter Test Signals	
Frequency Band(s):	2402 - 2480 MHz (1 Mbps) 2404 – 2478 MHz (2 Mbps)
Frequency(ies) Tested:	2402 MHz, 2404 MHz 2440 MHz, 2478 MHz, 2480 MHz
RF Power Output: (measured maximum peak conducted output power)	8.31 dBm (1 Mbps) and 7.95 dBm (2Mbps)
Normal Test Modulation:	GFSK
Modulating Signal Source:	Internal

EXHIBIT 4. SUMMARY OF TEST RESULTS

4.1. LOCATION OF TESTS

All of the measurements described in this report were performed at Ultratech Group of Labs located in the city of Oakville, Province of Ontario, Canada.

- AC Power Line Conducted Emissions were performed in UltraTech's shielded room, 24'(L) by 16'(W) by 8'(H).
- Radiated Emissions were performed at the Ultratech's 3-10 TDK Semi-Anechoic Chamber situated in the Town of Oakville, province of Ontario. This test site been calibrated in accordance with ANSI C63.4, and found to be in compliance with the requirements of Sec. 2.948 of the FCC Rules. The descriptions and site measurement data of the Oakville 3-10 TDK Semi-Anechoic Chamber has been filed with ANAB File No.: AT-1945.

4.2. APPLICABILITY & SUMMARY OF EMC EMISSION TEST RESULTS

FCC Section(s)	Test Requirements	Compliance (Yes/No)
15.203	Antenna requirements	Yes*
15.207(a)	AC Power Line Conducted Emissions	N/A
15.247(a)(2)	6 dB Bandwidth	N/A
15.247(b)(3)	Peak Conducted Output Power	Yes
15.247(d)	Band-Edge and RF Conducted Spurious Emissions at the Transmitter Antenna Terminal	--
15.247(d), 15.209 & 15.205	Band-Edge and Transmitter Spurious Radiated Emissions	Yes
15.247(e)	Power Spectral Density	N/A
15.247(i), 1.1307, 1.1310, 2.1091	RF Exposure	Yes

* The EUT complies with the requirement; it employs an integral antenna.

4.3. MODIFICATIONS INCORPORATED IN THE EUT FOR COMPLIANCE PURPOSES

None.

EXHIBIT 5. TEST DATA

5.1. PEAK CONDUCTED OUTPUT POWER - DTS [§ 15.247(b)(3)]

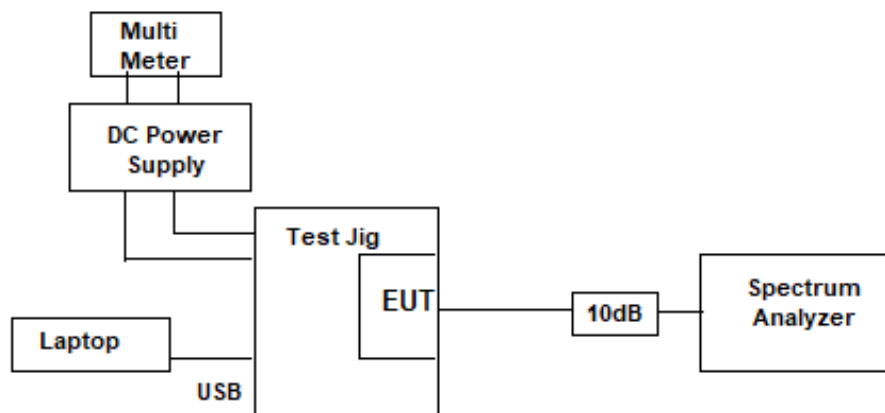
5.1.1. Limit(s)

§ 15.247(b)(3): For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the *maximum conducted output power* is the highest total transmit power occurring in any mode.

5.1.2. Method of Measurements

FCC KDB 558074 D01 15.247 Meas Guidance V05r02, Section 8.3.1.1 RBW ≥ DTS bandwidth

5.1.3. Test Arrangement



5.1.4. Test Data

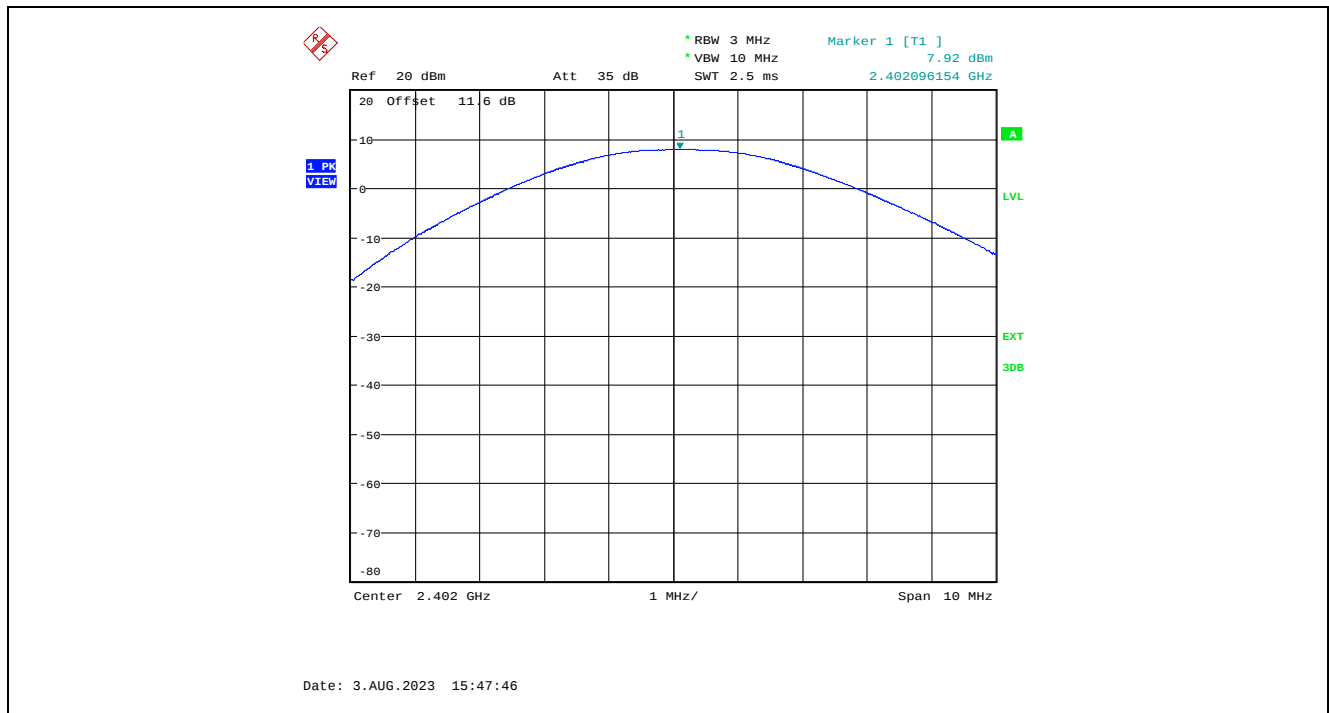
Maximum Peak Conducted Output Power at Power Settings 8 dBm and -2 dBm for 1 and 2 Mbps Data Rates

Modulation	Data Rate (Mbps)	Power Setting	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)	Peak Power Limit (dBm)
GFSK	1	8 dBm	2402	7.92	30
			2440	7.72	30
			2480	8.31	30
		-2 dBm	2402	-1.07	30
			2440	-1.22	30
			2480	-1.12	30
	2	8 dBm	2404	7.95	30
			2440	7.76	30
			2478	7.79	30
		-2 dBm	2404	-1.11	30
			2440	-1.27	30
			2478	-1.04	30

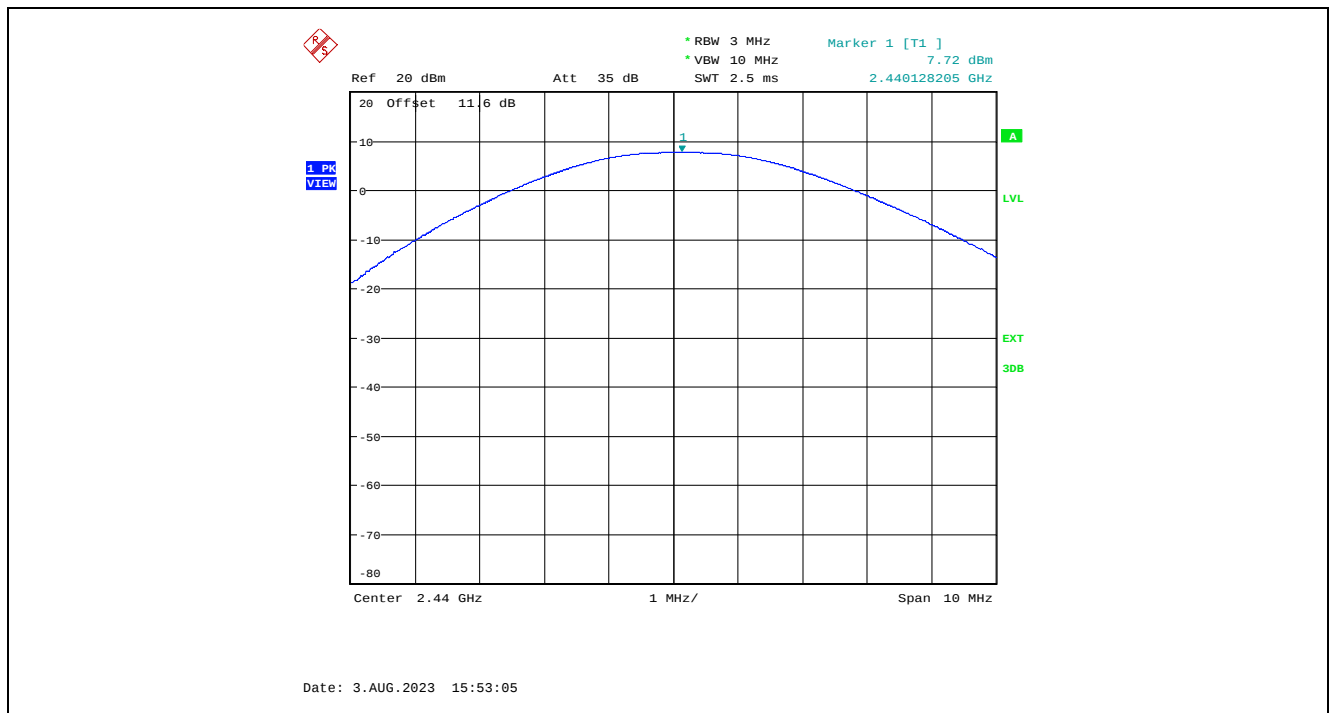
Power Level, Antenna Details and Resulting EIRP Values

Maximum Peak Conducted Output Power: 8.31 dBm					
Assembly #	Antenna Type	Maximum Gain (dBi)	Minimum Insertion / Cable Loss (dBm)	Antenna Assembly Gain (dBm)	EIRP (dBm)
1	Embedded PCB F-Style Antenna	-0.5	0	Embedded PCB F-Style Antenna	7.81

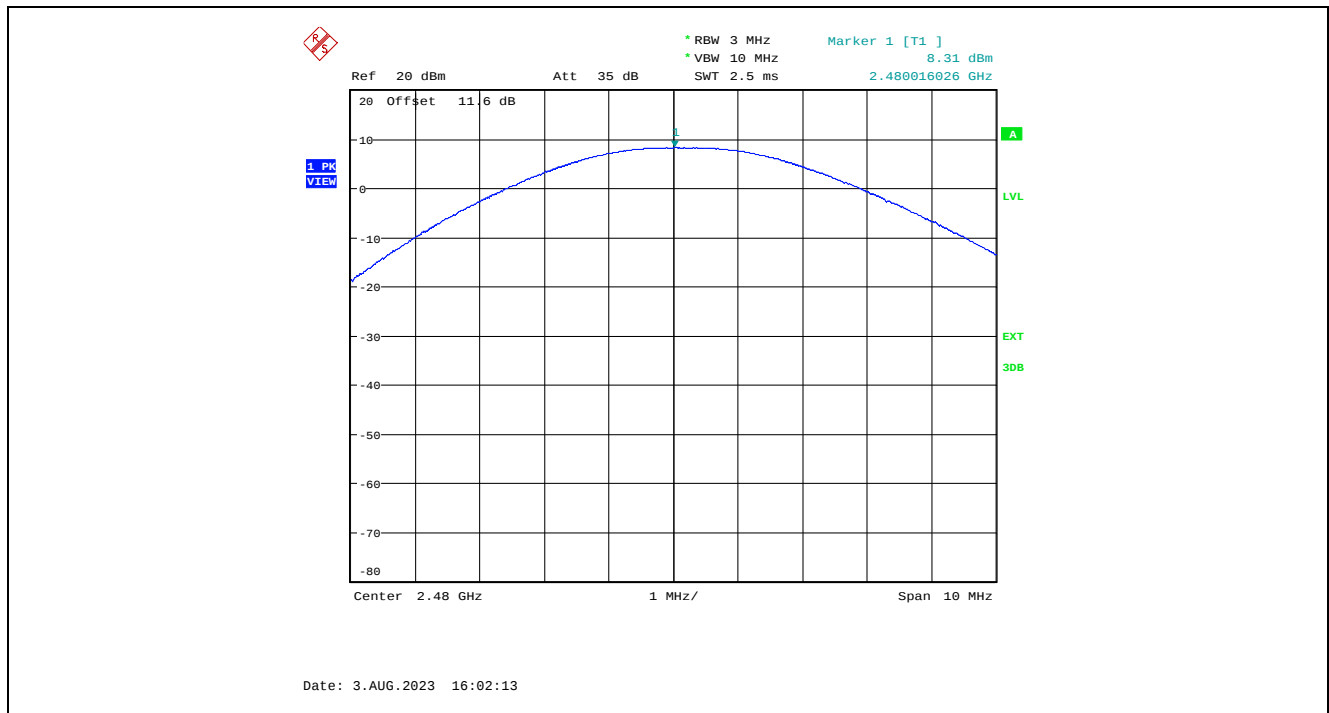
Plot 5.1.4.1. Maximum Peak Conducted Output Power, GFSK Modulation, 1 Mbps, 8 dBm Power Setting, 2402 MHz



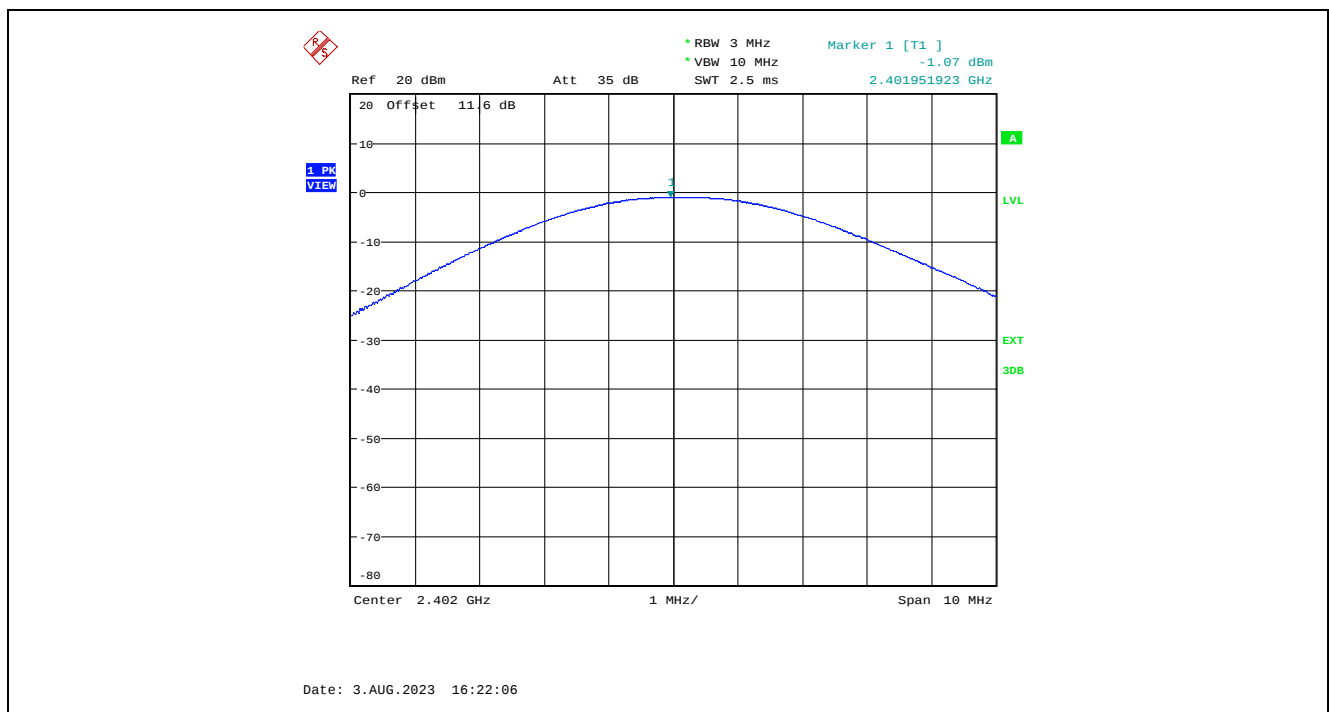
Plot 5.1.4.2. Maximum Peak Conducted Output Power, GFSK Modulation, 1 Mbps, 8 dBm Power Setting, 2440 MHz



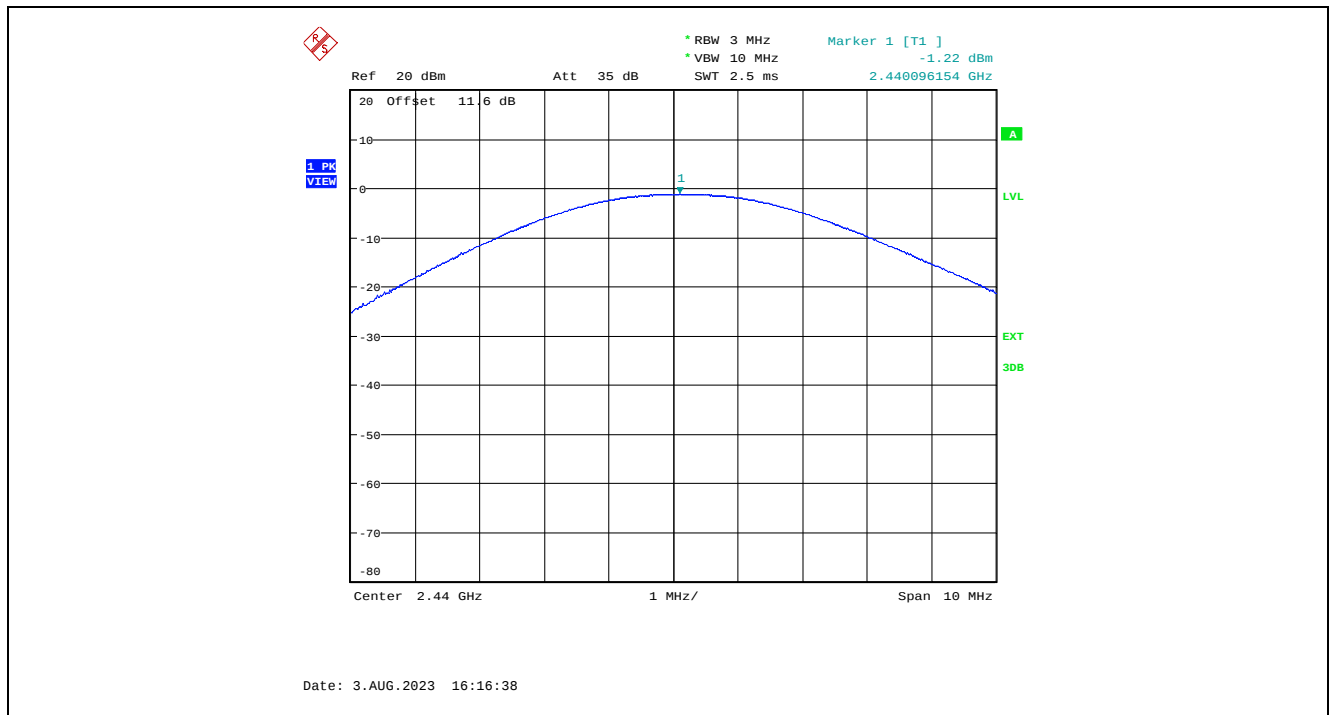
Plot 5.1.4.3. Maximum Peak Conducted Output Power, GFSK Modulation, 1 Mbps, 8 dBm Power Setting, 2480 MHz



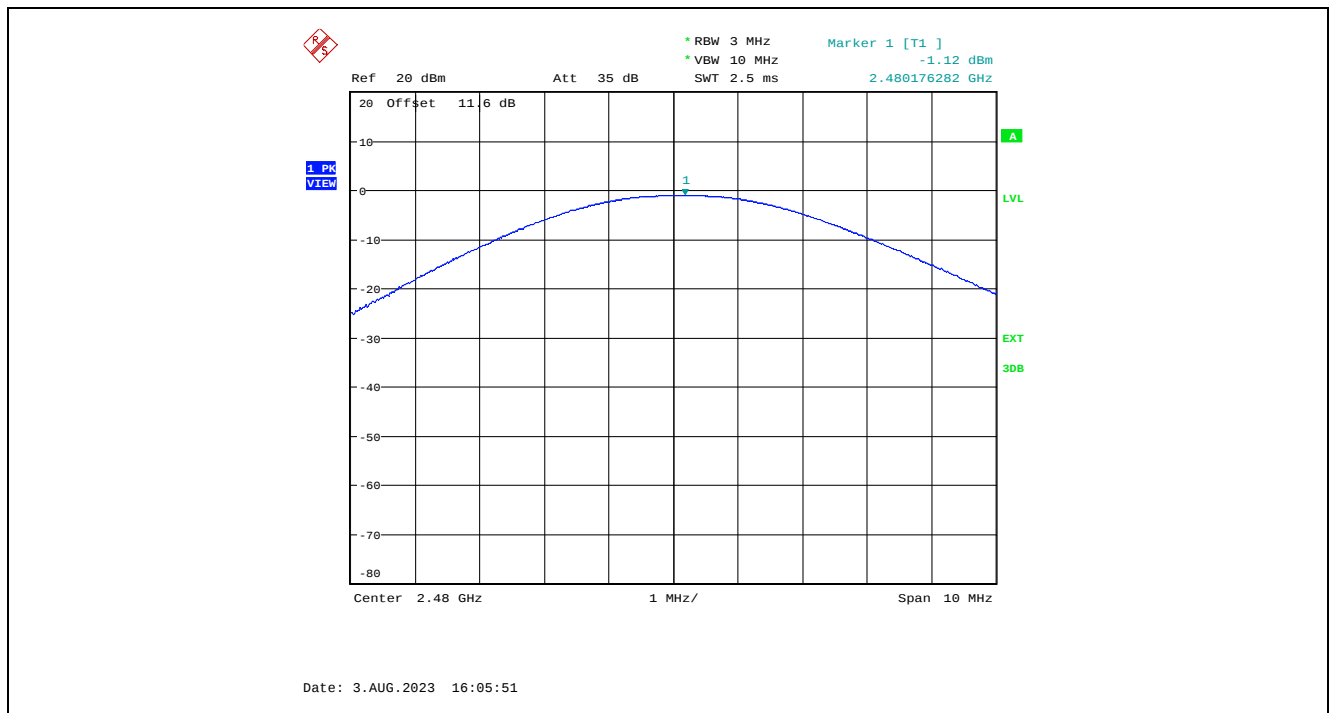
Plot 5.1.4.4. Maximum Peak Conducted Output Power, GFSK Modulation, 1 Mbps, -2 dBm Power Setting, 2402 MHz



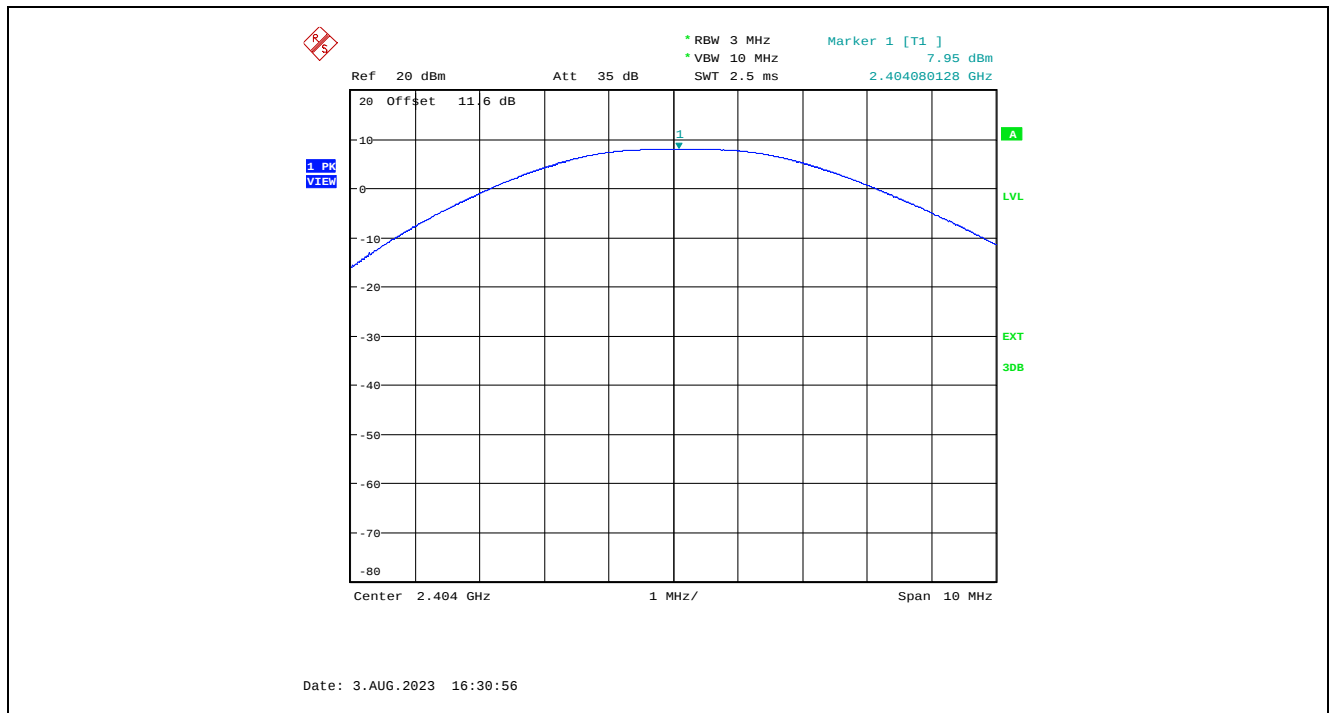
Plot 5.1.4.5. Maximum Peak Conducted Output Power, GFSK Modulation, 1 Mbps, -2 dBm Power Setting, 2440 MHz



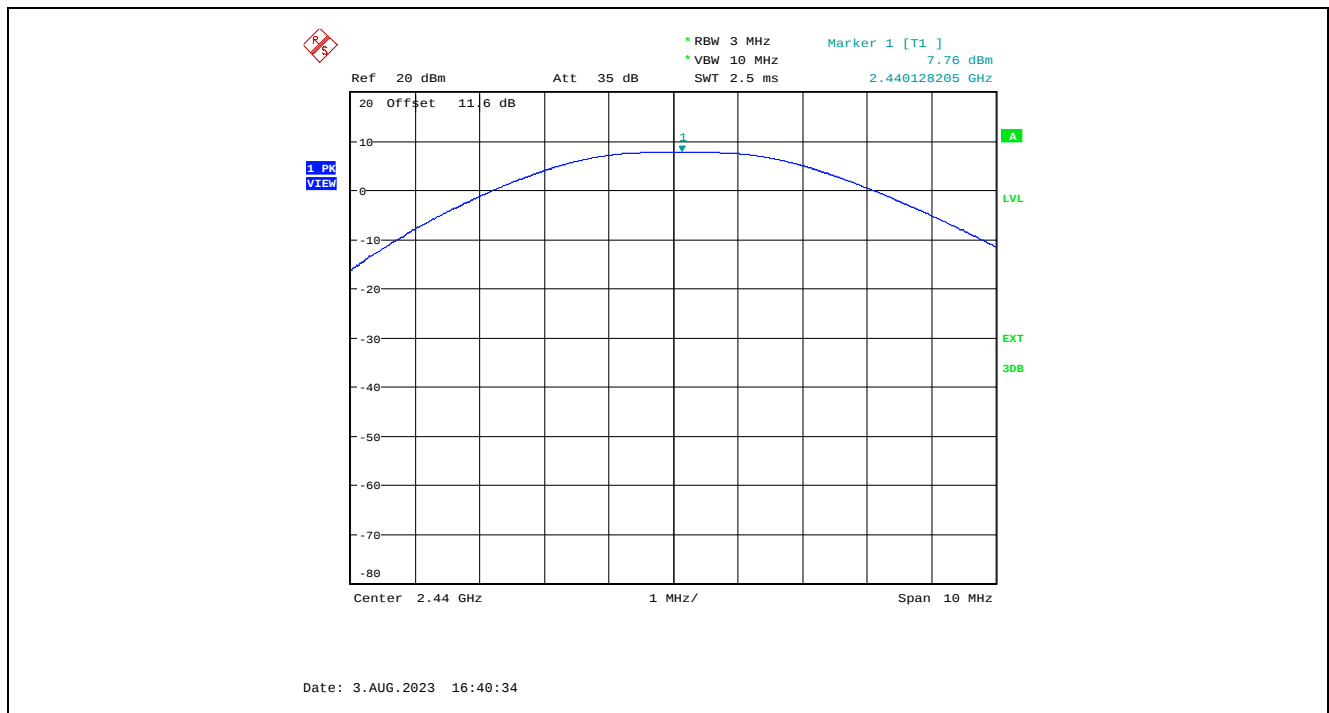
Plot 5.1.4.6. Maximum Peak Conducted Output Power, GFSK Modulation, 1 Mbps, -2 dBm Power Setting, 2480 MHz



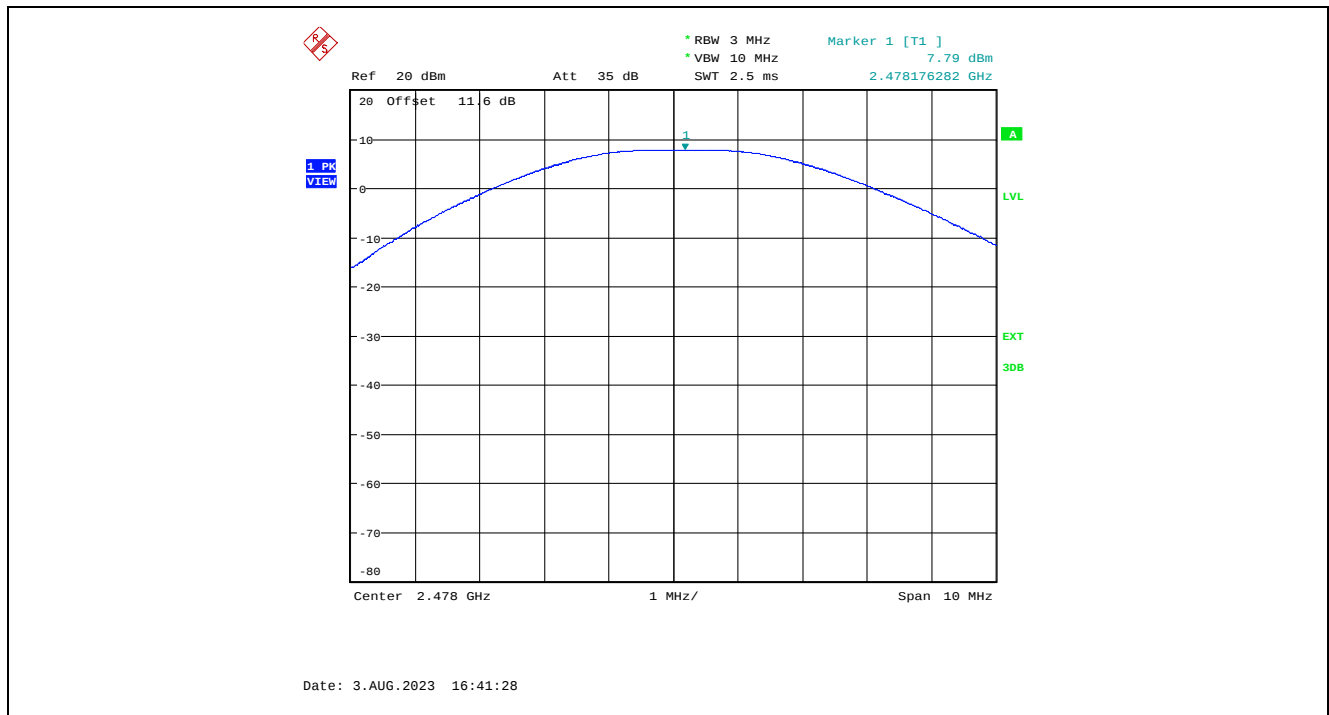
Plot 5.1.4.7. Maximum Peak Conducted Output Power, GFSK Modulation, 2 Mbps, 8 dBm Power Setting, 2404 MHz



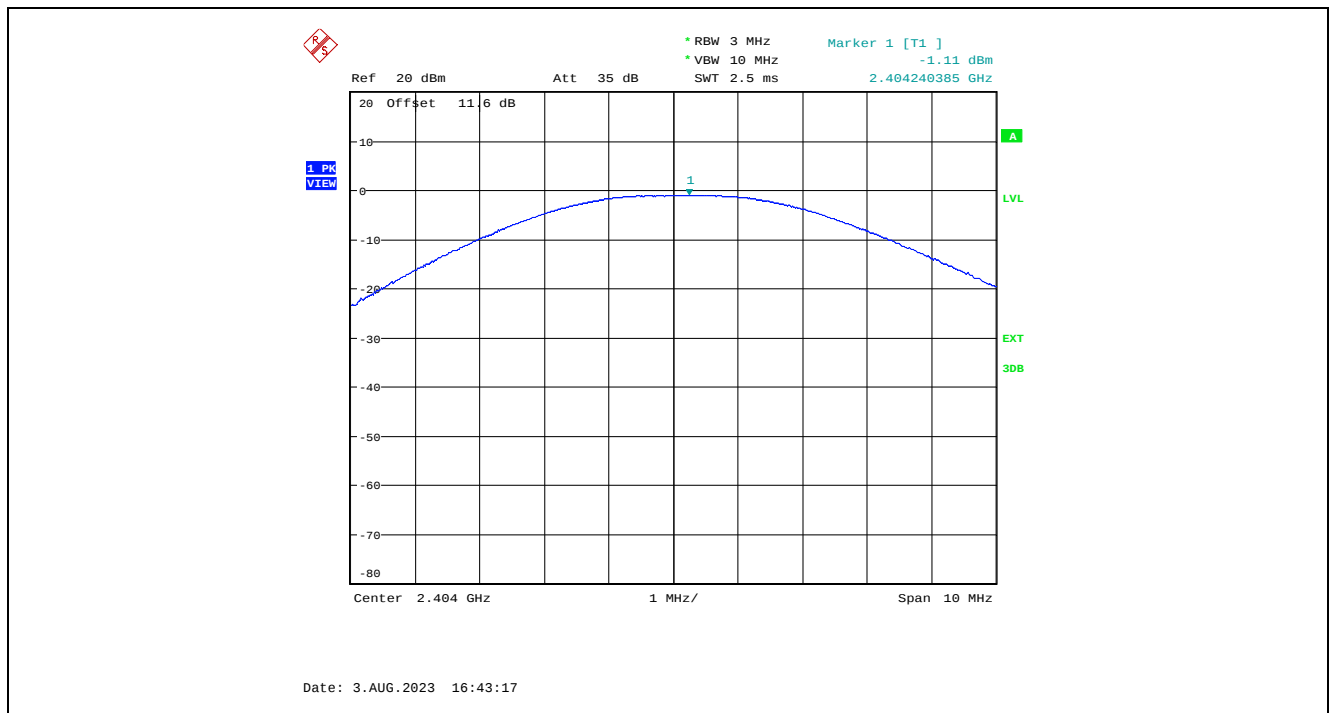
Plot 5.1.4.8. Maximum Peak Conducted Output Power, GFSK Modulation, 2 Mbps, 8 dBm Power Setting, 2440 MHz



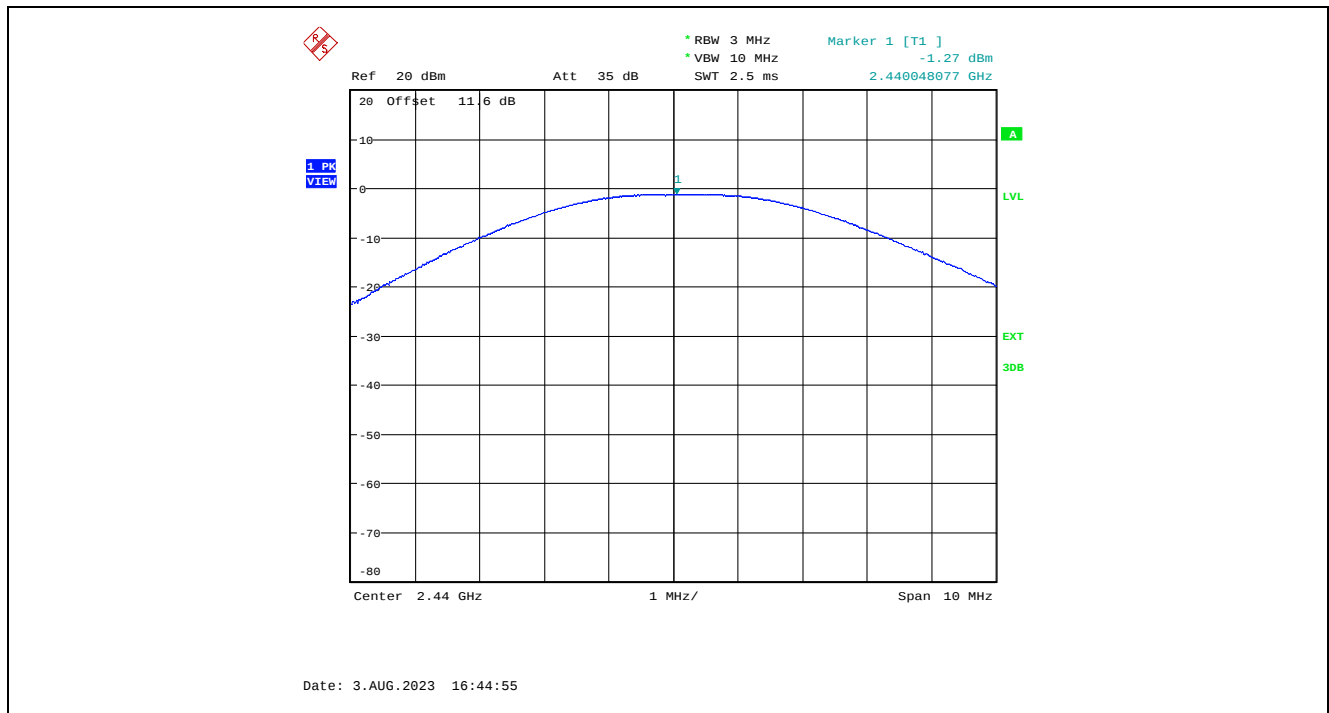
Plot 5.1.4.9. Maximum Peak Conducted Output Power, GFSK Modulation, 2 Mbps, 8 dBm Power Setting, 2478 MHz



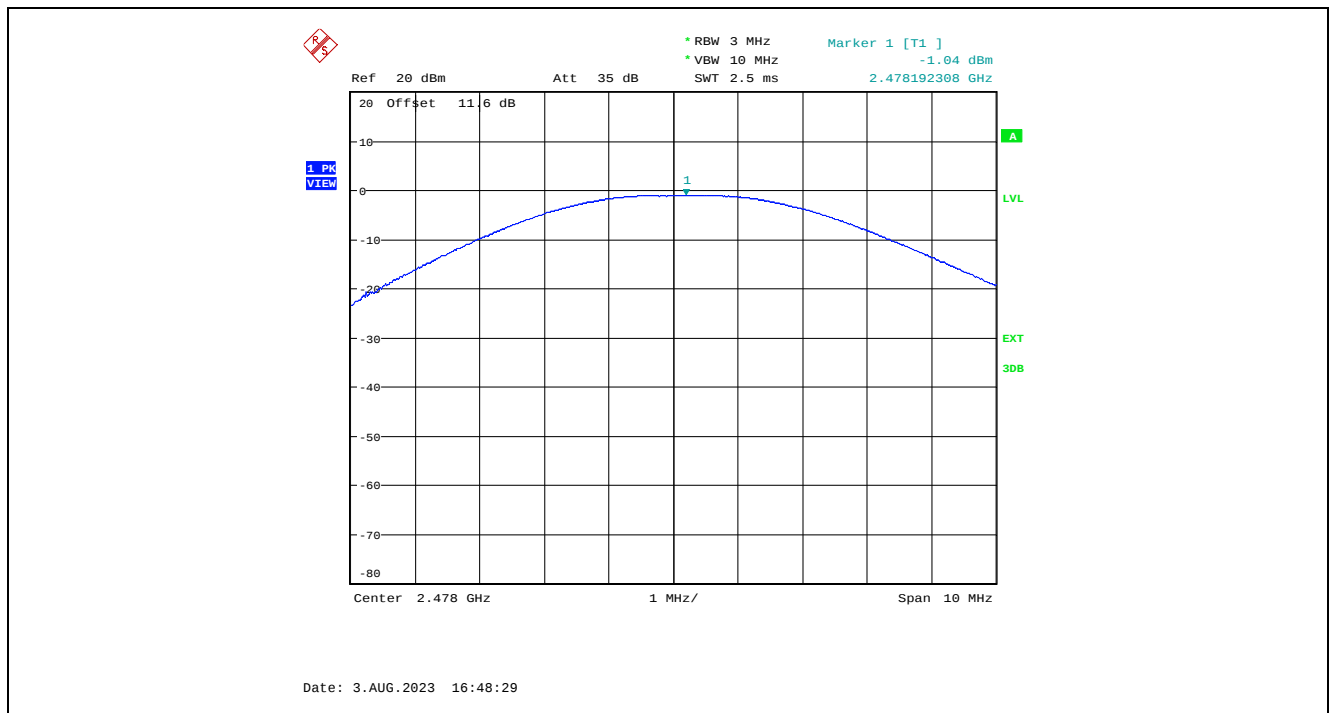
Plot 5.1.4.10. Maximum Peak Conducted Output Power, GFSK Modulation, 2 Mbps, -2 dBm Power Setting, 2404 MHz



Plot 5.1.4.11. Maximum Peak Conducted Output Power, GFSK Modulation, 2 Mbps, -2 dBm Power Setting, 2440 MHz



Plot 5.1.4.12. Maximum Peak Conducted Output Power, GFSK Modulation, 2 Mbps, -2 dBm Power Setting, 2478 MHz



5.2. TRANSMITTER SPURIOUS RADIATED EMISSIONS AT 3 METERS [§§ 15.247(d), 15.209 & 15.205]

5.2.1. Limit(s)

§ 15.247 (d): In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated 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, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

Section 15.205(a) - Restricted Bands of Operation

MHz	MHz	MHz	GHz
0.090–0.110	16.42–16.423	399.9–410	4.5–5.15
¹ 0.495–0.505	16.69475–16.69525	608–614	5.35–5.46
2.1735–2.1905	16.80425–16.80475	960–1240	7.25–7.75
4.125–4.128	25.5–25.67	1300–1427	8.025–8.5
4.17725–4.17775	37.5–38.25	1435–1626.5	9.0–9.2
4.20725–4.20775	73–74.6	1645.5–1646.5	9.3–9.5
6.215–6.218	74.8–75.2	1660–1710	10.6–12.7
6.26775–6.26825	108–121.94	1718.8–1722.2	13.25–13.4
6.31175–6.31225	123–138	2200–2300	14.47–14.5
8.291–8.294	149.9–150.05	2310–2390	15.35–16.2
8.362–8.366	156.52475–156.52525	2483.5–2500	17.7–21.4
8.37625–8.38675	156.7–156.9	2655–2900	22.01–23.12
8.41425–8.41475	162.0125–167.17	3260–3267	23.6–24.0
12.29–12.293	167.72–173.2	3332–3339	31.2–31.8
12.51975–12.52025	240–285	3345.8–3358	36.43–36.5
12.57675–12.57725	322–335.4	3600–4400	(²)
13.36–13.41.			

¹Until February 1, 1999, this restricted band shall be 0.490–0.510 MHz.

²Above 38.6

Section 15.209(a) - Field Strength Limits within Restricted Frequency Bands

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009 - 0.490	2,400 / F (kHz)	300
0.490 - 1.705	24,000 / F (kHz)	30
1.705 - 30.0	30	30
30 – 88	100	3
88 – 216	150	3
216 – 960	200	3
Above 960	500	3

ULTRATECH GROUP OF LABS

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File #: 23DIGI198_FCC15C247B

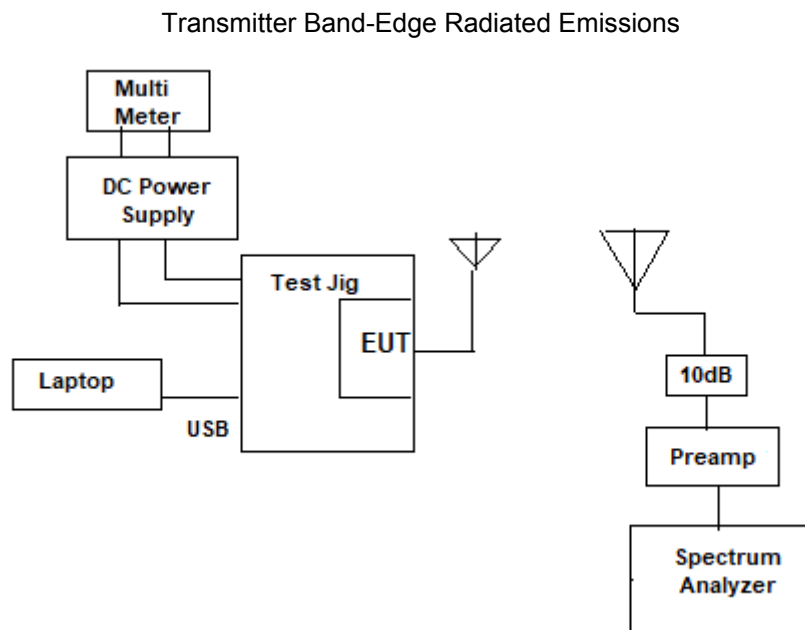
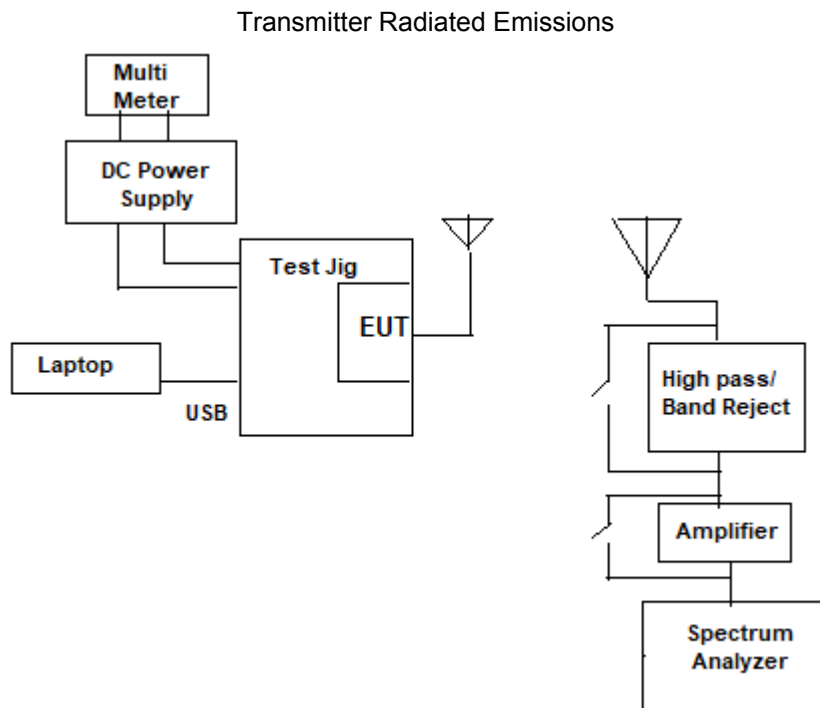
September 11, 2023

All test results contained in this engineering test report are traceable to National Institute of Standards and Technology (NIST)

5.2.2. Method of Measurements

KDB 558074 D01 DTS Meas Guidance v05r02 Sections 8.5 and 8.6 and ANSI C63.10.

5.2.3. Test Arrangement



5.2.4. Test Data

Remark(s):

- All spurious emissions that are in excess of 20 dB below the specified limit shall be recorded.
- EUT shall be tested in three orthogonal positions.
- The following test data represent the worst-case derived from exploratory tests.

5.2.4.1. EUT with -0.5 dBi Embedded F-Style Antenna, -0.5 dBi Antenna Assembly Gain, 1 Mbps Data Rate

5.2.4.1.1. Spurious Radiated Emission

Power Setting:		8 dBm					
Fundamental Frequency:		2402 MHz					
Test Frequency Range:		30 MHz – 25 GHz					
Frequency (MHz)	RF Peak Level (dBμV/m)	RF Avg Level (dBμV/m)	Antenna Plane (H/V)	Limit 15.209 (dBμV/m)	Limit 15.247 (dBμV/m)	Margin (dB)	Pass/Fail
2402	104.34	--	V	--	--	--	--
2402	104.92	--	H	--	--	--	--
4804	48.25	38.34	H	54.0	84.9	-15.7	Pass*
All other spurious emissions and harmonics are more than 20 dB below the applicable limit.							

*Field strength of emissions appearing within restricted frequency bands shall not exceed the limits in § 15.209.

Power Setting:		8 dBm					
Fundamental Frequency:		2440 MHz					
Test Frequency Range:		30 MHz – 25 GHz					
Frequency (MHz)	RF Peak Level (dBμV/m)	RF Avg Level (dBμV/m)	Antenna Plane (H/V)	Limit 15.209 (dBμV/m)	Limit 15.247 (dBμV/m)	Margin (dB)	Pass/Fail
2440	104.37	--	V	--	--	--	--
2440	104.82	--	H	--	--	--	--
4880	46.84	34.82	V	54.0	84.8	-19.2	Pass*
4880	48.68	39.54	H	54.0	84.8	-14.5	Pass*
All other spurious emissions and harmonics are more than 20 dB below the applicable limit.							

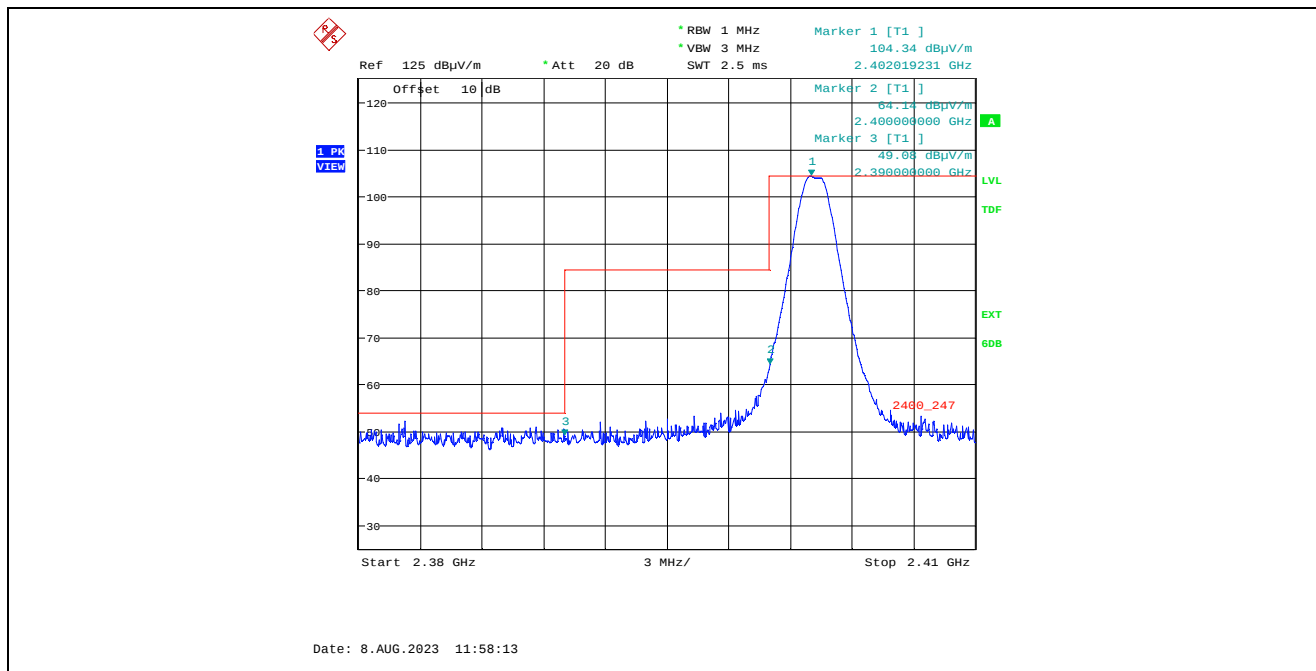
*Field strength of emissions appearing within restricted frequency bands shall not exceed the limits in § 15.209.

Power Setting:		8 dBm					
Fundamental Frequency:		2480 MHz					
Test Frequency Range:		30 MHz – 25 GHz					
Frequency (MHz)	RF Peak Level (dBμV/m)	RF Avg Level (dBμV/m)	Antenna Plane (H/V)	Limit 15.209 (dBμV/m)	Limit 15.247 (dBμV/m)	Margin (dB)	Pass/Fail
2480	99.52	--	V	--	--	--	--
2480	102.63	--	H	--	--	--	--
4960	46.78	35.38	V	54.0	82.6	-18.6	Pass*
4960	48.29	37.71	H	54.0	82.6	-16.3	Pass*
All other spurious emissions and harmonics are more than 20 dB below the applicable limit.							

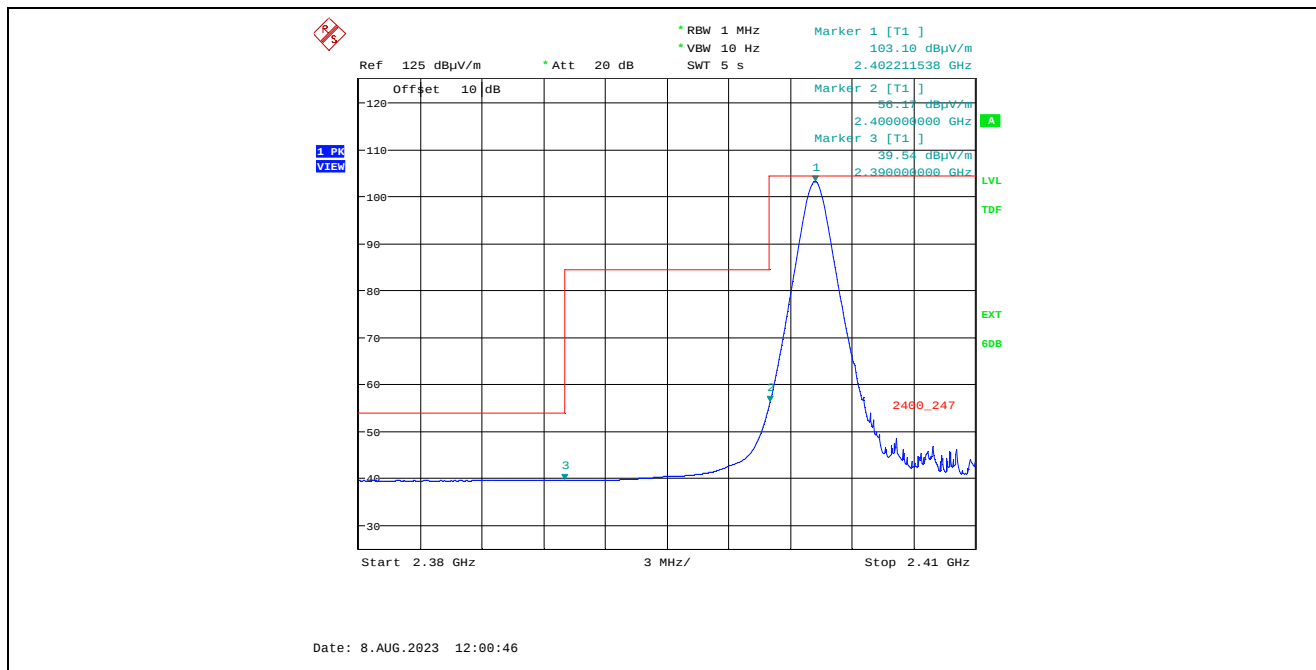
*Field strength of emissions appearing within restricted frequency bands shall not exceed the limits in § 15.209.

5.2.4.1.2. Band-Edge RF Radiated Emission

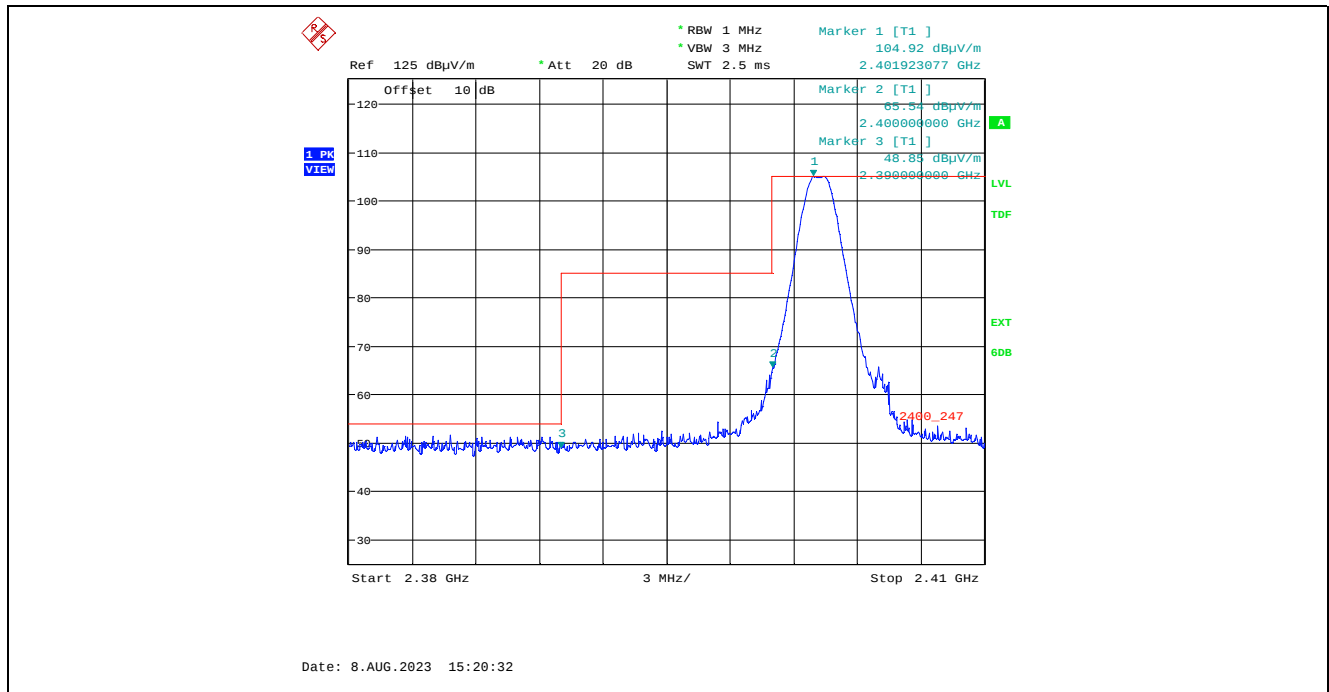
Plot 5.2.4.1.2.1. Band-Edge RF Radiated Emissions at 3 m, Vertical Polarization, Peak
Low End of Frequency Band, 2402 MHz, 8 dBm Power Setting, 1 Mbps



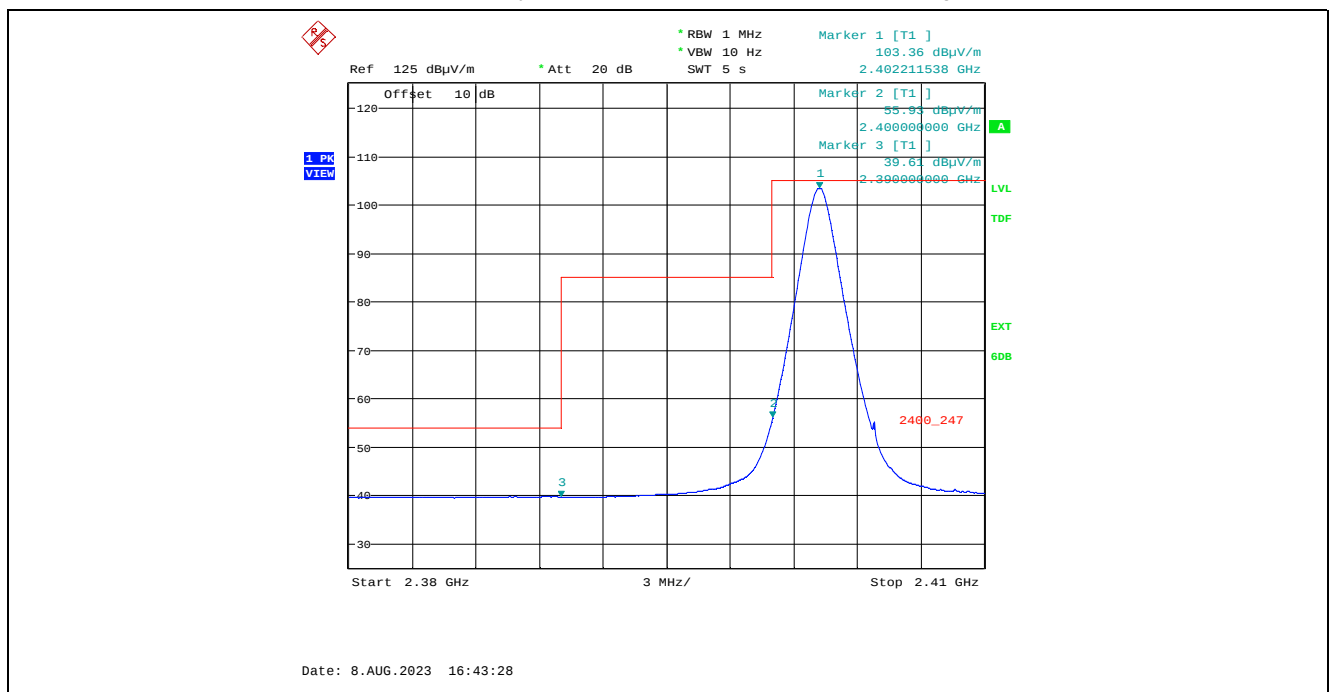
Plot 5.2.4.1.2.2. Band-Edge RF Radiated Emissions at 3 m, Vertical Polarization, Average
Low End of Frequency Band, 2402 MHz, 8 dBm Power Setting, 1 Mbps



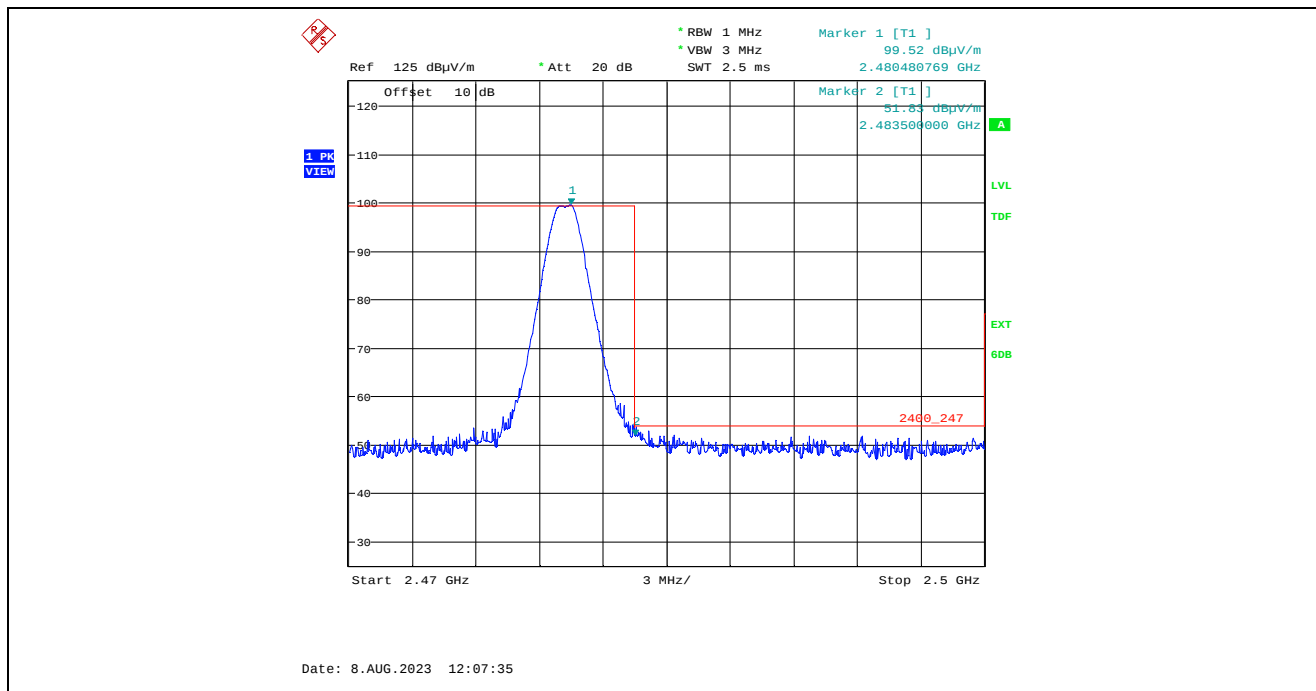
Plot 5.2.4.1.2.3. Band-Edge RF Radiated Emissions at 3 m, Horizontal Polarization, Peak
Low End of Frequency Band, 2402 MHz, 8 dBm Power Setting, 1 Mbps



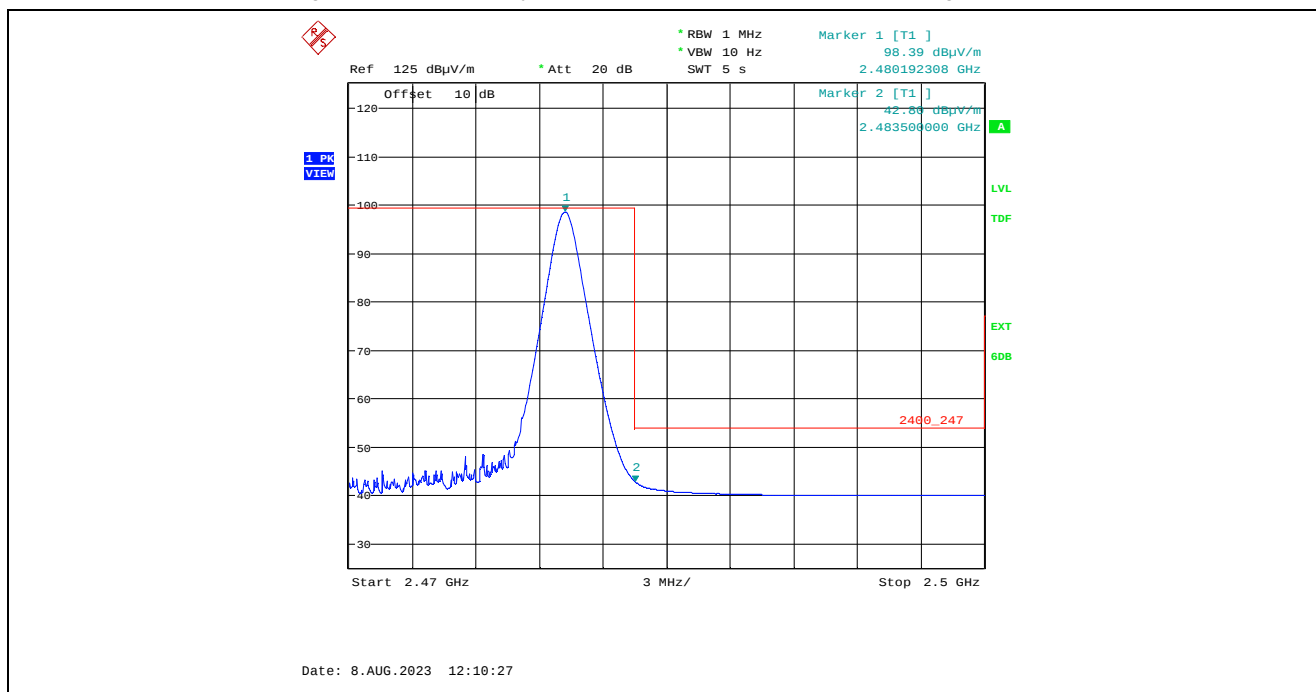
Plot 5.2.4.1.2.4. Band-Edge RF Radiated Emissions at 3 m, Horizontal Polarization, Average
Low End of Frequency Band, 2402 MHz, 8 dBm Power Setting, 1 Mbps



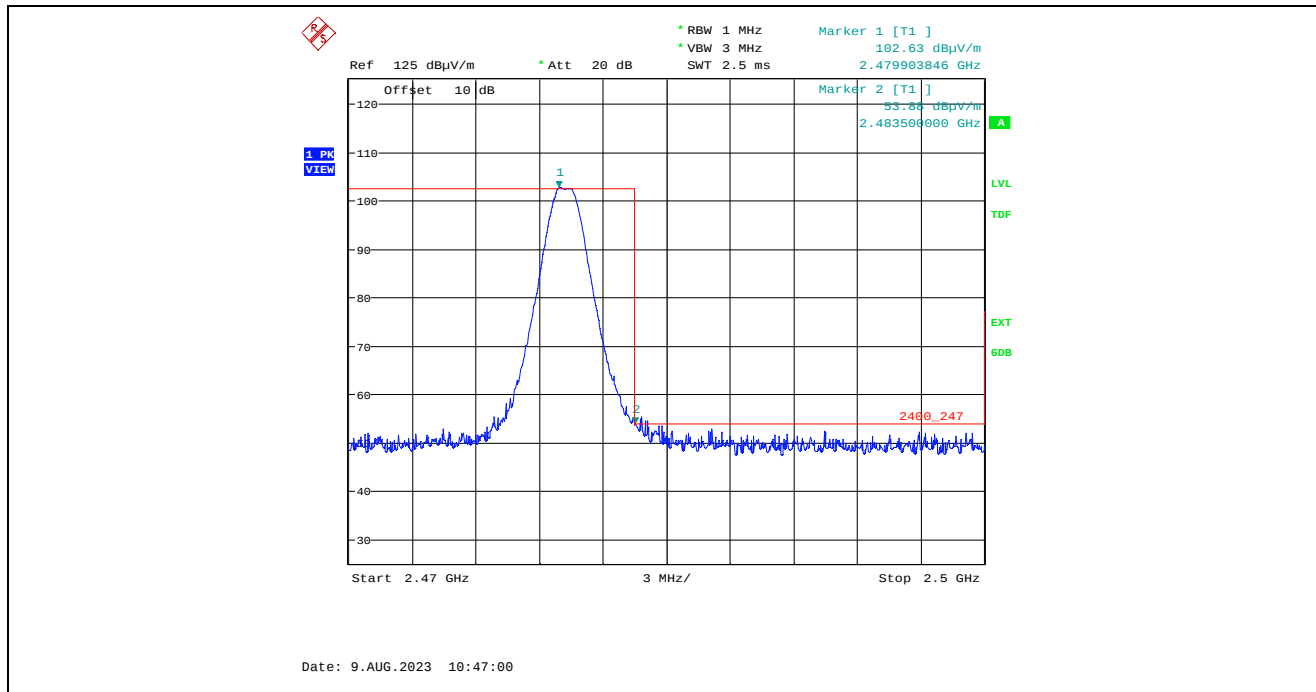
Plot 5.2.4.1.2.5. Band-Edge RF Radiated Emissions at 3 m, Vertical Polarization, Peak
High End of Frequency Band, 2480 MHz, 8 dBm Power Setting, 1 Mbps



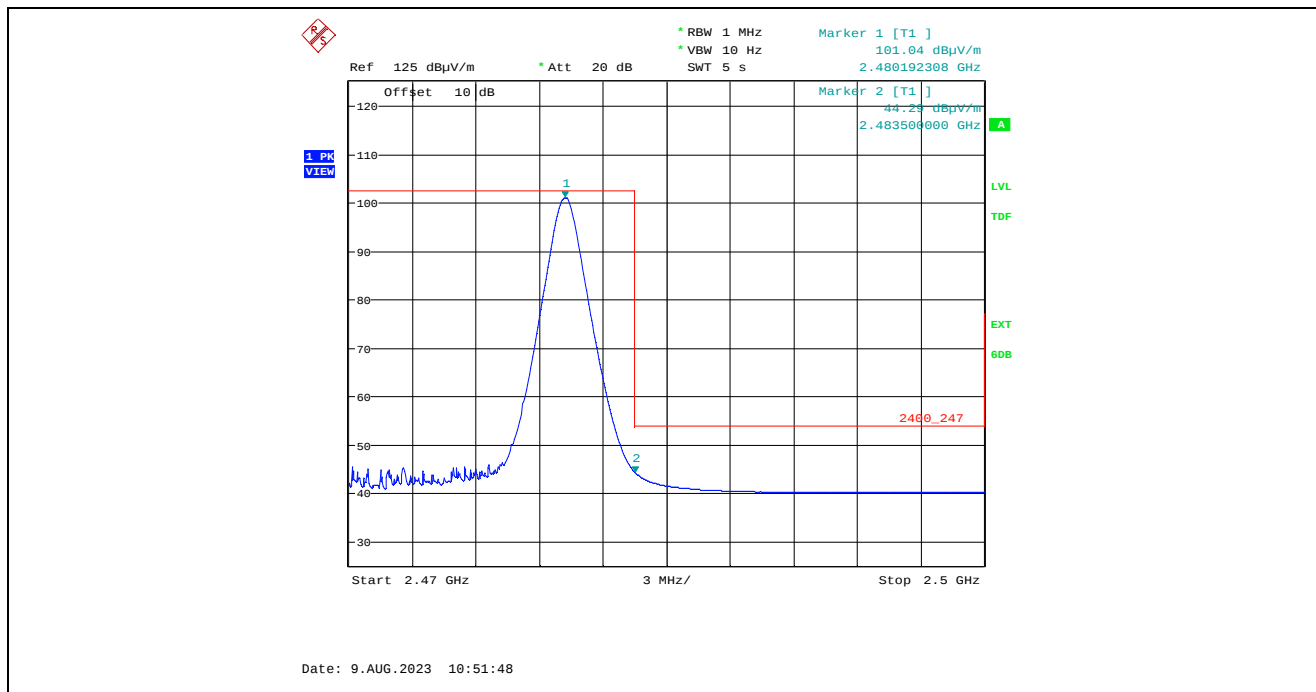
Plot 5.2.4.1.2.6. Band-Edge RF Radiated Emissions at 3 m, Vertical Polarization, Average
High End of Frequency Band, 2480 MHz, 8 dBm Power Setting, 1 Mbps



Plot 5.2.4.1.2.7. Band-Edge RF Radiated Emissions at 3 m, Horizontal Polarization, Peak
High End of Frequency Band, 2480 MHz, 8 dBm Power Setting, 1 Mbps



Plot 5.2.4.1.2.8. Band-Edge RF Radiated Emissions at 3 m, Horizontal Polarization, Average
High End of Frequency Band, 2480 MHz, 8 dBm Power Setting, 1 Mbps



5.3. RF EXPOSURE REQUIREMENTS [§§ 15.247(i), 1.1310 & 2.1091]

5.3.1. Limits

§ 1.1310: The criteria listed in the following table shall be used to evaluate the environmental impact of human exposure to radio-frequency (RF) radiation as specified in 1.1307(b).

Limits for Maximum Permissible Exposure (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposures				
0.3-3.0	614	1.63	*(100)	6
3.0-30	1842/f	4.89/f	*(900/f ²)	6
30-300	61.4	0.163	1.0	6
300-1500			f/300	6
1500-100,000			5	6
(B) Limits for General Population/Uncontrolled Exposure				
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*(180/f ²)	30
30-300	27.5	0.073	0.2	30
300-1500			f/1500	30
1500-100,000			1.0	30

f = frequency in MHz

* = Plane-wave equivalent power density

Note 1: Occupational/controlled limits apply in situations in which persons are exposed as a consequence of their employment provided those persons are fully aware of the potential for exposure and can exercise control over their exposure. Limits for occupational/controlled exposure also apply in situations when an individual is transient through a location where occupational/controlled limits apply provided he or she is made aware of the potential for exposure.

Note 2: General population/uncontrolled exposures apply in situations in which the general public may be exposed, or in which persons that are exposed as a consequence of their employment may not be fully aware of the potential for exposure or cannot exercise control over their exposure.

5.3.2. Method of Measurements

Calculation Method of Power Density/RF Safety Distance:

$$S = \frac{PG}{4\pi \cdot r^2} = \frac{EIRP}{4\pi \cdot r^2}$$

Where,
P: power input to the antenna in mW
EIRP: Equivalent (effective) isotropic radiated power.
S: power density mW/cm²
G: numeric gain of antenna relative to isotropic radiator
r: distance to centre of radiation in cm

5.3.3. RF Evaluation

Frequency (MHz)	EUT EIRP (dBm)	EUT EIRP (mW)	Evaluation Distance (cm)	Power Density (mW/cm ²)	MPE Limit (mW/cm ²)
2402	7.81	6.039	20	0.001	1.0

EXHIBIT 6. TEST EQUIPMENT LIST

Test Instruments	Manufacturer	Model No.	Serial No.	Frequency Range	Cal. Due Date
Spectrum Analyzer	Rohde & Schwarz	FSU26	200946	20Hz–26.5 GHz	11 Mar 2024
Attenuator	Hewlett Packard	8493C	0461	DC–26.5 GHz	See Note 1
DC Power Supply	Hewlett Packard	6204B	--	0-40Vdc	See Note 1
Multi-meter	Fluke	8842A	4142058	20mV - 1kV	26 Oct 2024
Horn Antenna	ETS	3115	9701-5061	1-18GHz	08 Aug 2024
Preamp	Hewlett Packard	PAM-118A	551016	500MHz-18GHz	13 Apr 2024
Log Periodic Antenna	EMCO	3148	00023845	26-2000MHz	15 May 2025
Band Reject Filter	Microtronics	BRM50701	105	Cut off 2.170-3 GHz	See Note 1
High Pass Filter	K & L	11SH-10- 4000/T 12000	4	Cut off 2.4GHz	See Note 1
Note 1: Internal Verification/Calibration check					

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File #: 23DIGI198_FCC15C247B
September 11, 2023

All test results contained in this engineering test report are traceable to National Institute of Standards and Technology (NIST)

EXHIBIT 7. MEASUREMENT UNCERTAINTY

The measurement uncertainties stated were calculated in accordance with the requirements of CISPR 16-4-2 @ IEC:2003 and JCGM 100:2008 (GUM 1995) – Guide to the Expression of Uncertainty in Measurement.

Test Description	Expanded Uncertainty, K=2 for 95% Confidence Level
Conducted Output Power	± 0.62 dB
Transmitter Band-edge Radiated Emissions	± 2.76 dB (1-18GHz)
Transmitter Spurious Radiated Emissions	± 4.20 dB (30 MHz – 1 GHz)
	± 2.70 dB (1 – 18 GHz)
	± 3.11 dB (18 – 26.5 GHz)

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