

Operation Band MHz = [902, 928] Hybrid = 125 kHz

Frequency MHz = 914.90000 Active Port = 1

Modulation = LoRa (CSS)

Images:



02:56:59 PM 05/28/2026

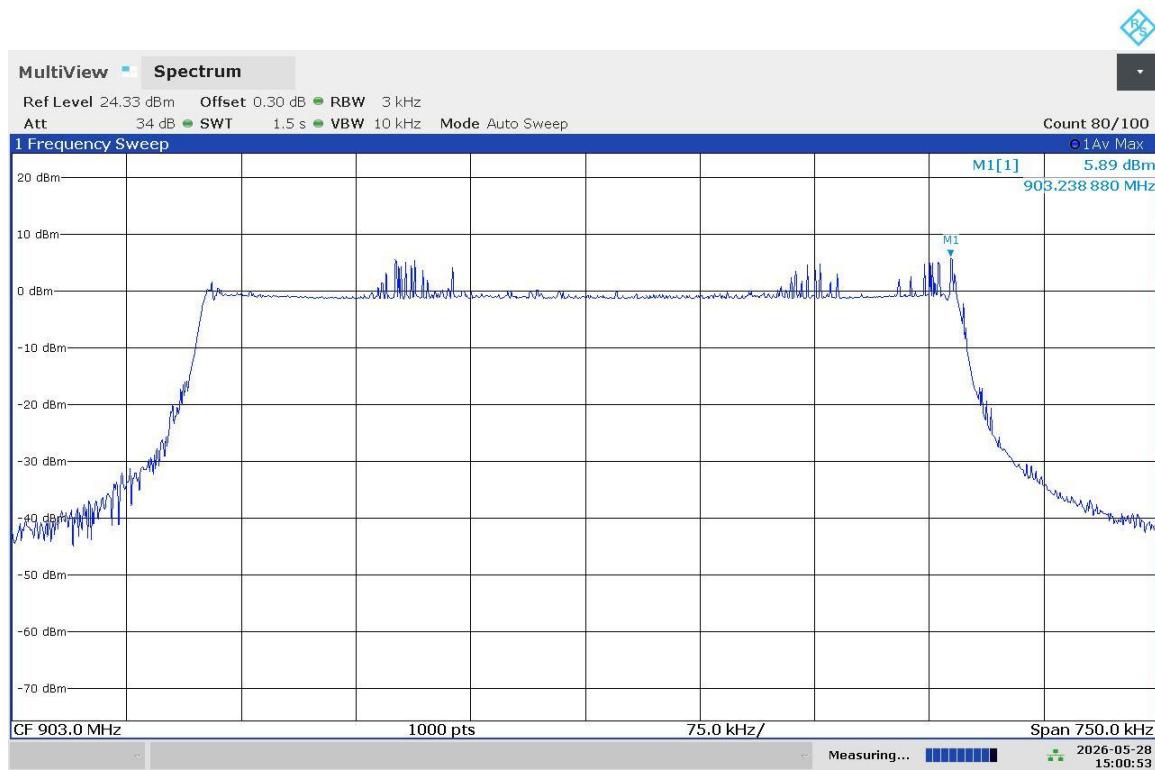
Attachments

Operation Band MHz = [902, 928] DTS = 500 kHz

Frequency MHz = 903.00000 Active Port = 1

Modulation = LoRa (CSS)

Images:

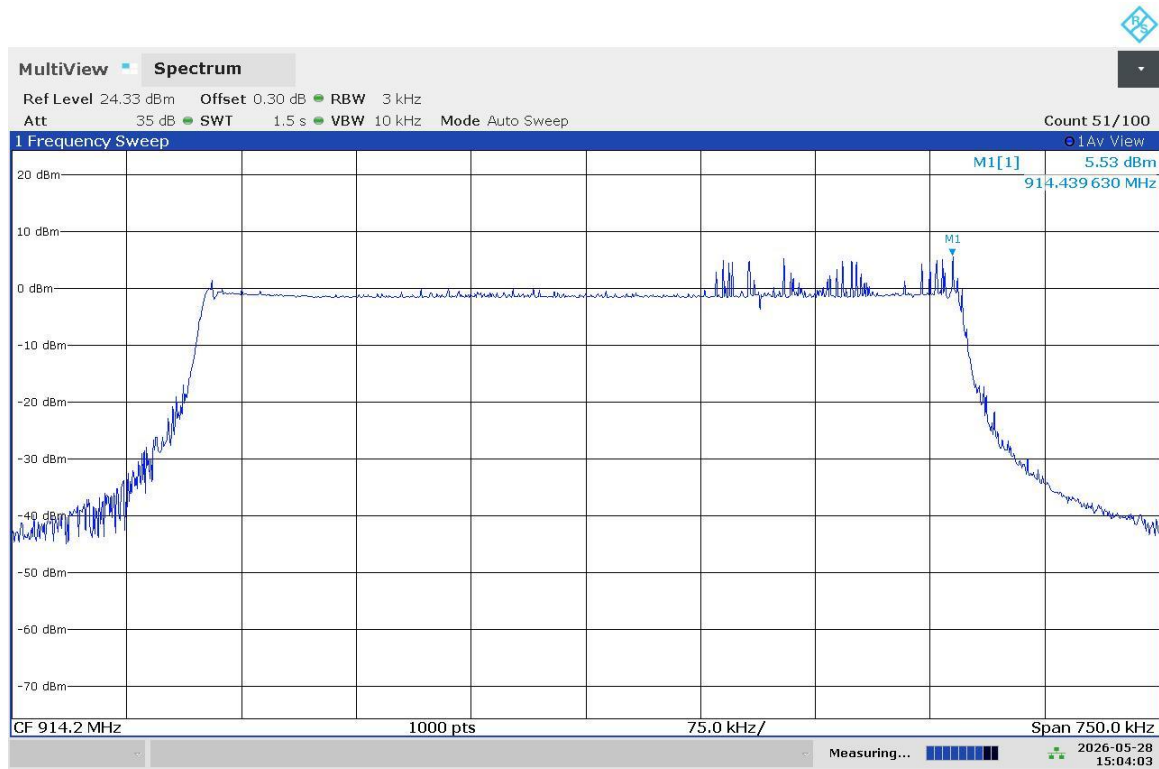


Operation Band MHz = [902, 928] DTS = 500 kHz

Frequency MHz = 914.20000 Active Port = 1

Modulation = LoRa (CSS)

Images:



03:04:03 PM 05/28/2026

Operation Band MHz = [902, 928] DTS = 500 kHz

Frequency MHz = 927.50000 Active Port = 1

Modulation = LoRa (CSS)

Images:



03:08:49 PM 05/28/2026

Appendix B: Test results. Bluetooth Low Energy

Appendix B

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Product information

The following information is provided by the client

Information	Description
Modulation	GFSK
Frequency band/Range	2400-2483.5 MHz
Maximum RF Output Power	4 dBm
Operation mode	
- Channel Spacing	2 MHz
- Number of Channels	40
- Nominal Channel Bandwidth	1 MHz
Antenna type	Chip
Antenna gain	1.99 dBi peak for BTLE
Nominal Voltage	
- Supply Voltage	5 Vdc
- Type of power source	AC Adapter
Equipment type	BTLE

Description of test conditions

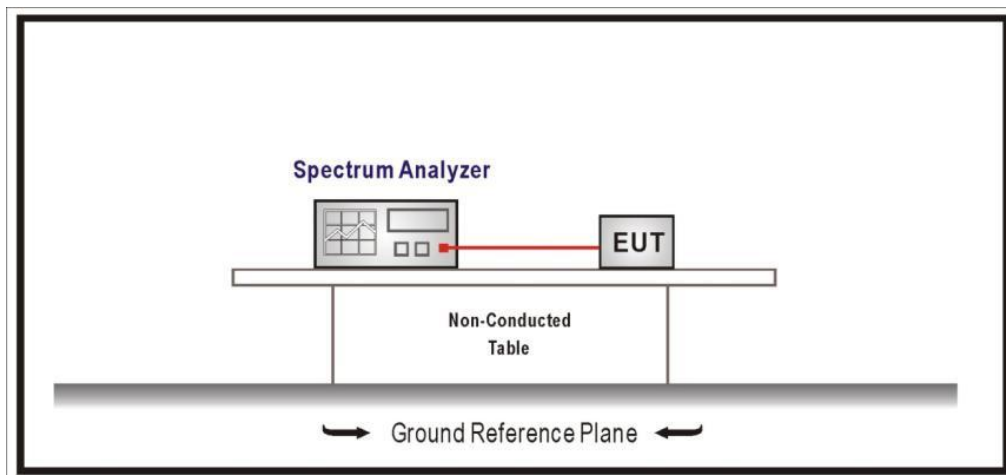
During transmitter test the EUT was being controlled by the SW tool to operate in a continuous transmit mode on the test channel as required and in each of the different modulation modes.

Bluetooth LE

TEST CONDITIONS	DESCRIPTION
TC/01 (1 Mbps)	<u>Power supply (V):</u> Transformer Operated: 5 Vdc <u>Temperature (°C):</u> $T_{nom} = +15$ to $+35$ <u>Test Frequencies for Radiated/Conducted tests:</u> Lowest channel: 2402 MHz Middle channel: 2440 MHz Highest channel: 2480 MHz
TC/02 (2 Mbps)	<u>Power supply (V):</u> Transformer Operated: 5 Vdc <u>Temperature (°C):</u> $T_{nom} = +15$ to $+35$ <u>Test Frequencies for Radiated/Conducted tests:</u> Lowest channel: 2402 MHz Middle channel: 2440 MHz Highest channel: 2480 MHz

Test Setup

CONDUCTED MEASUREMENTS:



RADIATED MEASUREMENTS:

All radiated tests were performed in a semi-anechoic chamber. The measurement antenna is situated at 3 m for the frequency range 30-1000 MHz (Bilog antenna) and 1-18 GHz Double ridge horn antennas, and 1m for the frequency range 18 GHz- 26 GHz Double ridge horn antenna.

For radiated emissions in the range 18 - 26 GHz that is performed at a distance closer than the specified distance, an inverse proportionality factor of 20 dB per decade is used to normalize the measured data for determining compliance.

The equipment under test was set up on a non-conductive platform above the ground plane and the situation and orientation was varied to find the maximum radiated emission. It was also rotated 360° and the antenna height was varied from 1 to 4 meters to find the maximum radiated emission.

Measurements were made in both horizontal and vertical planes of polarization.

The field strength is calculated by adding correction factor to the measured level from the spectrum analyzer. This correction factor includes antenna factor, cable loss and pre-amplifiers gain.

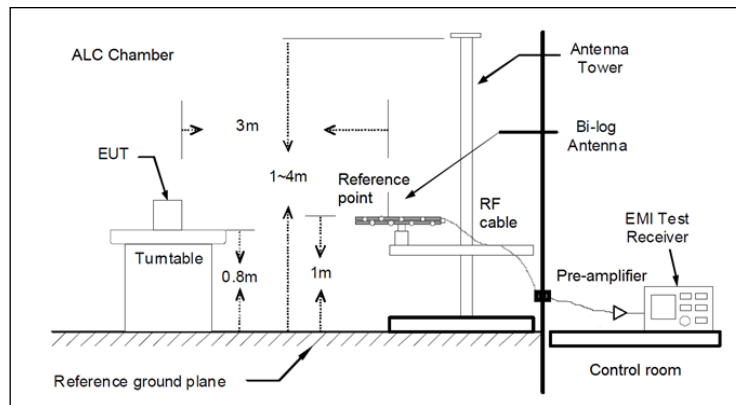


Fig A1: Radiated measurements Setup $f < 1$ GHz

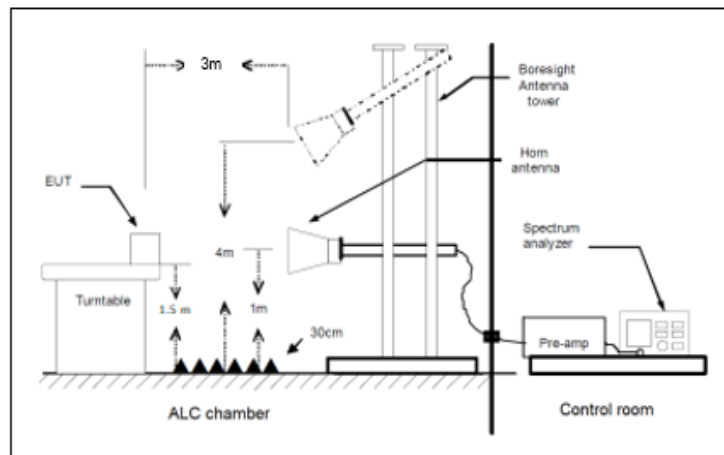


Fig A2: Radiated measurements setup $f > 1-18$ GHz

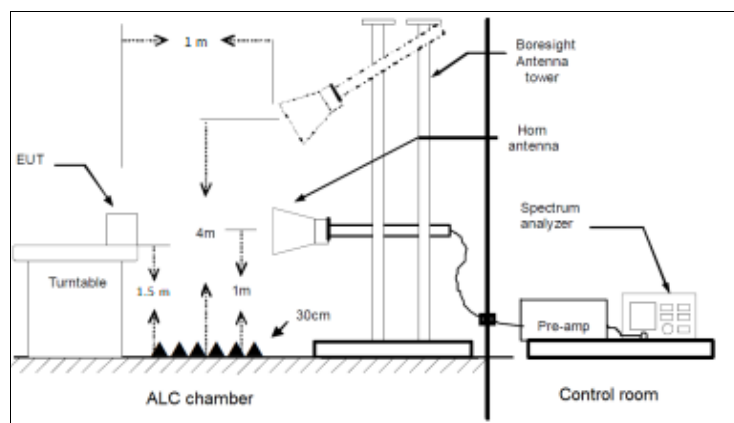


Fig A3: Radiated measurements setup $f > 18$ GHz

Test cases details

RSS-Gen / RSS-247 - [99dBW] Transmitter 99% Occupied Bandwidth

Limits

CANADA RSS-247 Issue 4 (July 2025):

2.4 RSS-Gen compliance

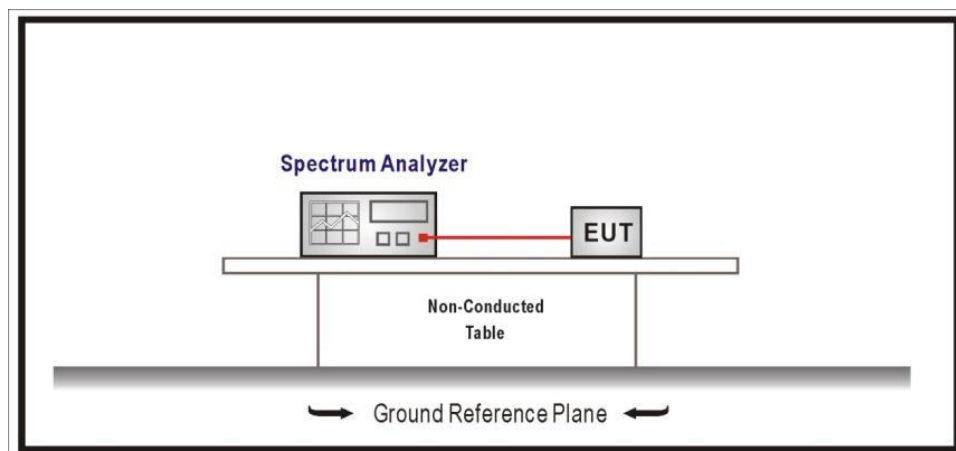
Equipment being certified under this standard shall also comply with the general requirements set out in Radio Standards Specification RSS-Gen, General Requirements for Compliance of Radio Apparatus. Where contradictions exist between this standard and RSS-Gen, this standard shall take precedence.

CANADA RSS-Gen Issue 5 (April 2018)/A1 (March 2019)/A2 (Feb 2021):

6.7 Occupied bandwidth (or 99% emission bandwidth) and x dB bandwidth

The occupied bandwidth or the “99% emission bandwidth” is defined as the frequency range between two points, one above and the other below the carrier frequency, within which 99% of the total transmitted power of the fundamental transmitted emission is contained. The occupied bandwidth shall be reported for all equipment in addition to the specified bandwidth required in the applicable RSSs.

TEST SETUP:



Modulation: BTLE (GFSK 1 Mbit/s)

Sample ID: S/01

TC/01

Results

Freq (MHz)	Port	Occ Ch BW (MHz)
2402	1	1.048
2440	1	1.048
2480	1	1.048

Modulation: BTLE (GFSK 2 Mbit/s)

Sample ID: S/01

TC/02

Results

Freq (MHz)	Port	Occ Ch BW (MHz)
2402	1	2.045
2440	1	2.045
2480	1	2.055

Verdict

Pass

Attachments

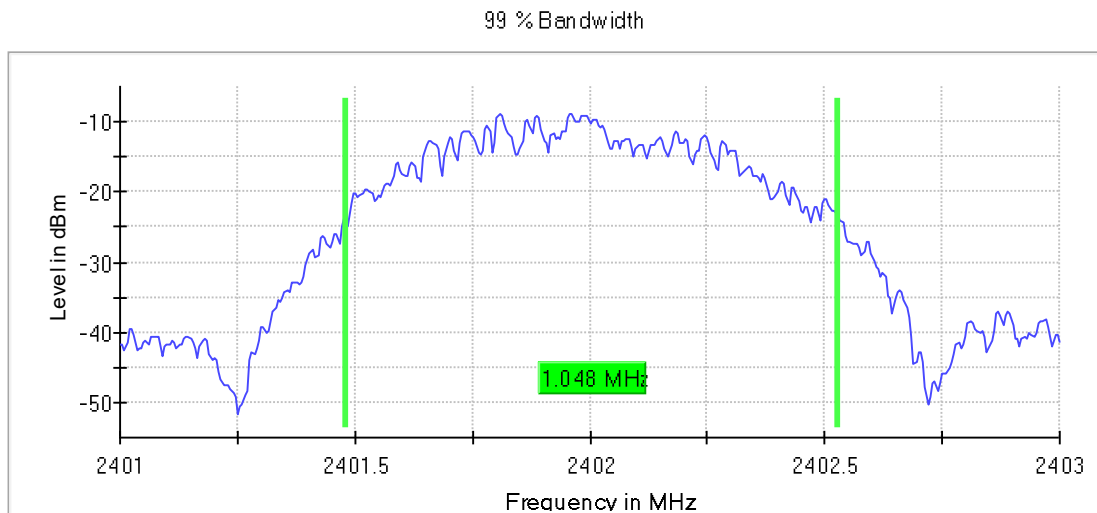
Operation Band MHz = [2400, 2483.5]

Frequency MHz = 2402

Active Port = 1

Modulation = BTLE 1 MBPS

Images:



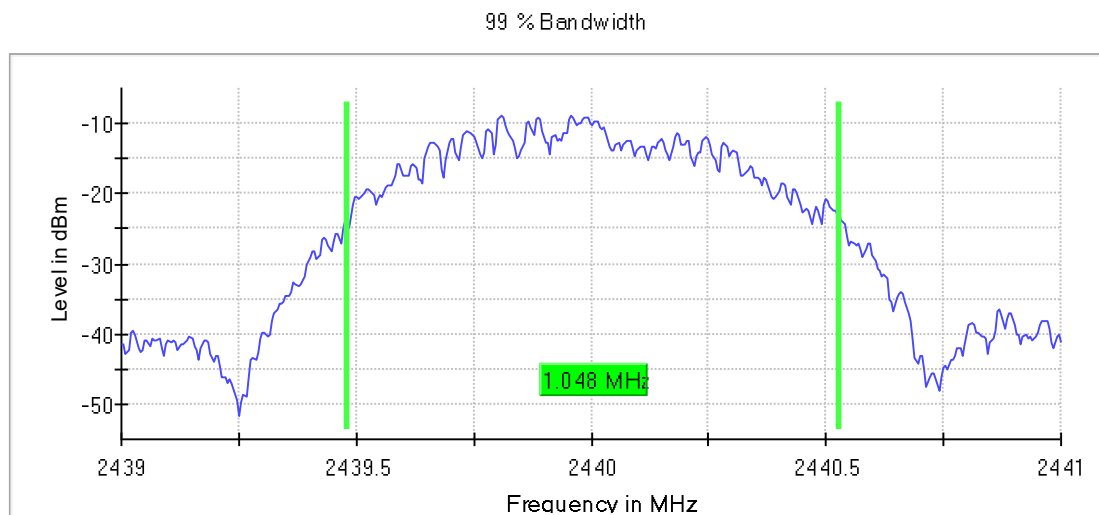
Operation Band MHz = [2400, 2483.5]

Frequency MHz = 2440

Active Port = 1

Modulation = BTLE 1 MBPS

Images:



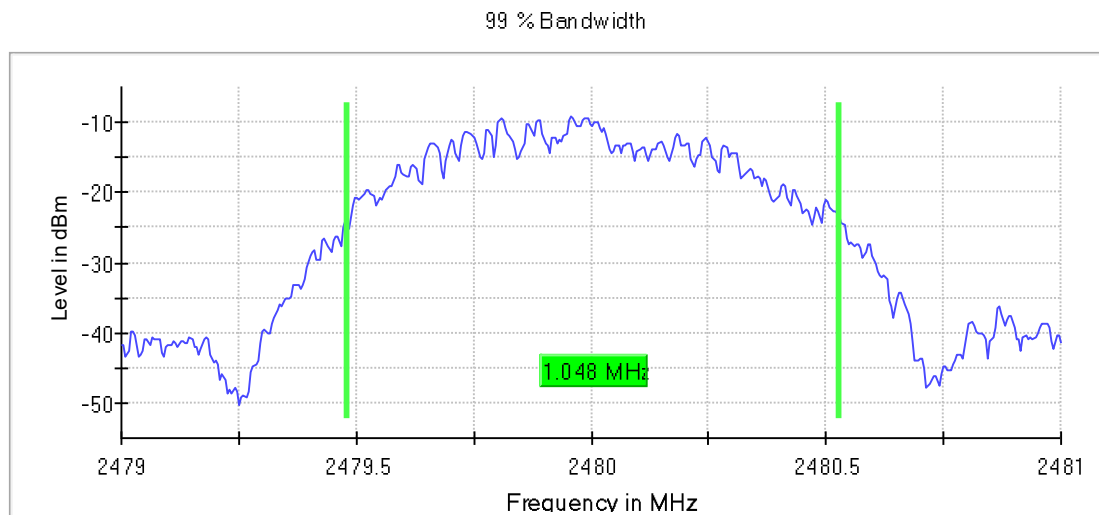
Operation Band MHz = [2400, 2483.5]

Frequency MHz = 2480

Active Port = 1

Modulation = BTLE 1 MBPS

Images:



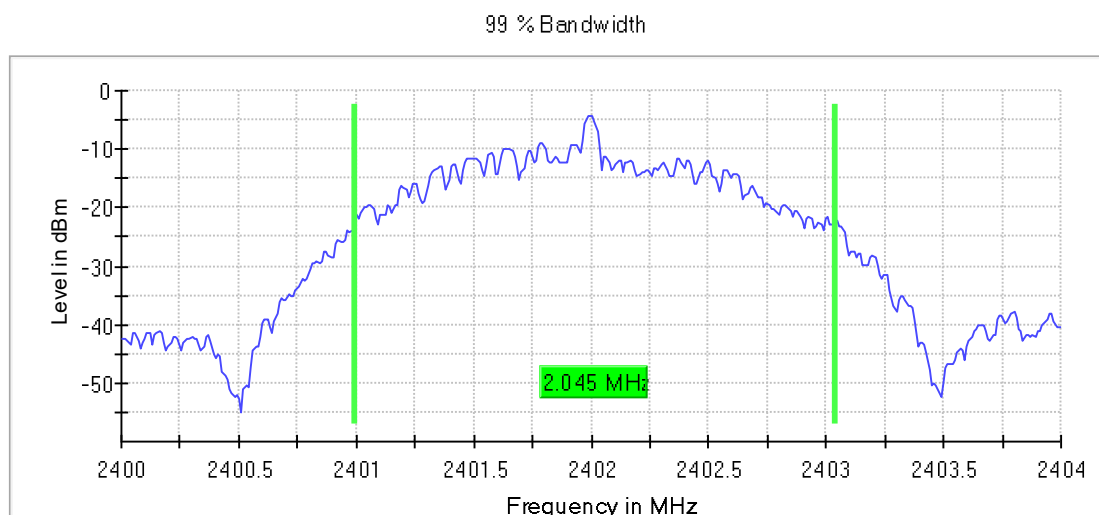
Operation Band MHz = [2400, 2483.5]

Frequency MHz = 2402

Active Port = 1

Modulation = BTLE 2 MBPS

Images:



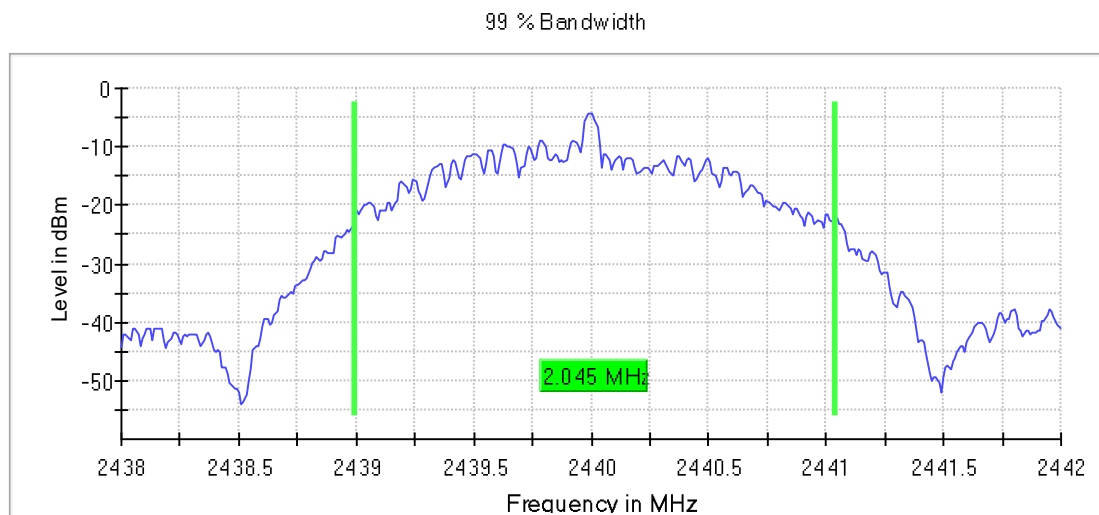
Operation Band MHz = [2400, 2483.5]

Frequency MHz = 2440

Active Port = 1

Modulation = BTLE 2 MBPS

Images:



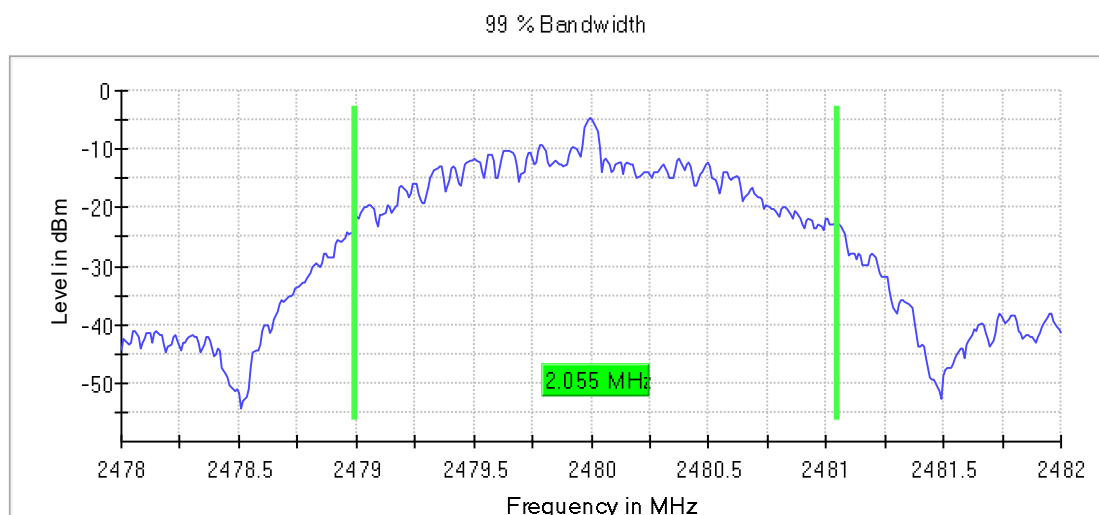
Operation Band MHz = [2400, 2483.5]

Frequency MHz = 2480

Active Port = 1

Modulation = BTLE 2 MBPS

Images:



RSS-247 / FCC 15.247 - [6dBw] 6 dB Bandwidth

Limits

USA FCC Part 15.247 (01-26-2026):

(a) Operation under the provisions of this Section is limited to frequency hopping and digitally modulated intentional radiators that comply with the following provisions.

(2) Systems using digital modulation techniques may operate in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

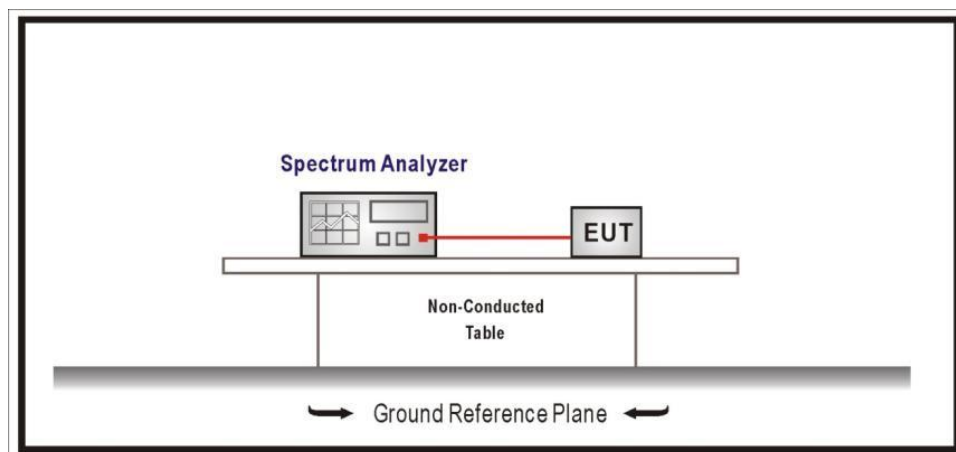
CANADA RSS-247 Issue 4 (July 2025):

6.3.1 Bandwidth and conducted power spectral density

The following applies to the bands 902-928 MHz and 2400-2483.5 MHz:

- a. the minimum 6 dB bandwidth shall be 500 kHz.

TEST SETUP:



Modulation: BTLE 1 MBPS

Sample ID: S/01

TC/01

Results

Freq (MHz)	Port	Occ Ch BW (kHz)
2402	1	820
2440	1	820
2480	1	820

Modulation: BTLE 2 MBPS

Sample ID: S/01

TC/02

Results

Freq (MHz)	Port	Occ Ch BW (MHz)
2402	1	1.520
2440	1	1.480
2480	1	1.320

Verdict

Pass

Attachments

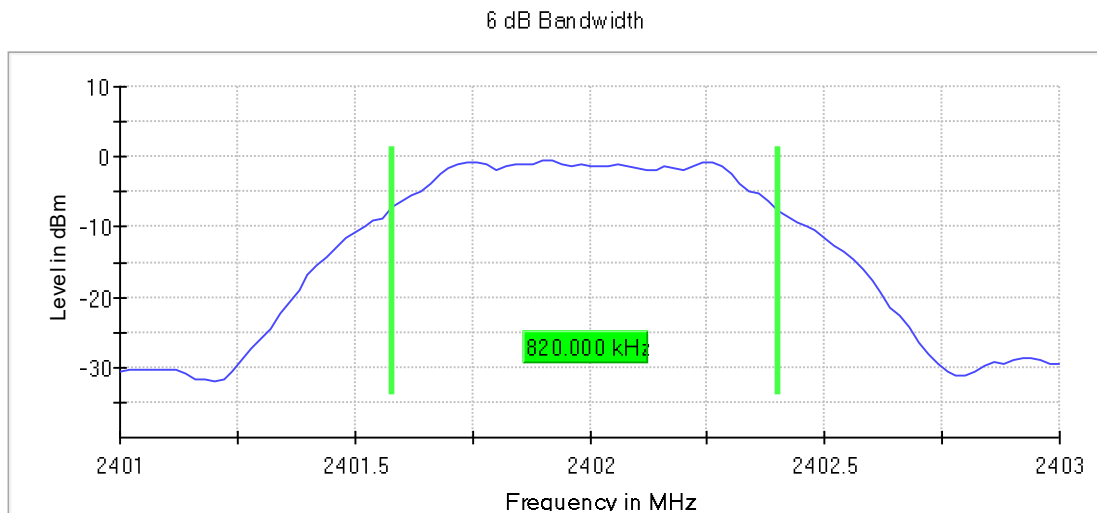
Operation Band MHz = [2400, 2483.5]

Frequency MHz = 2402

Active Port = 1

Modulation = BTLE 1 MBPS

Images:



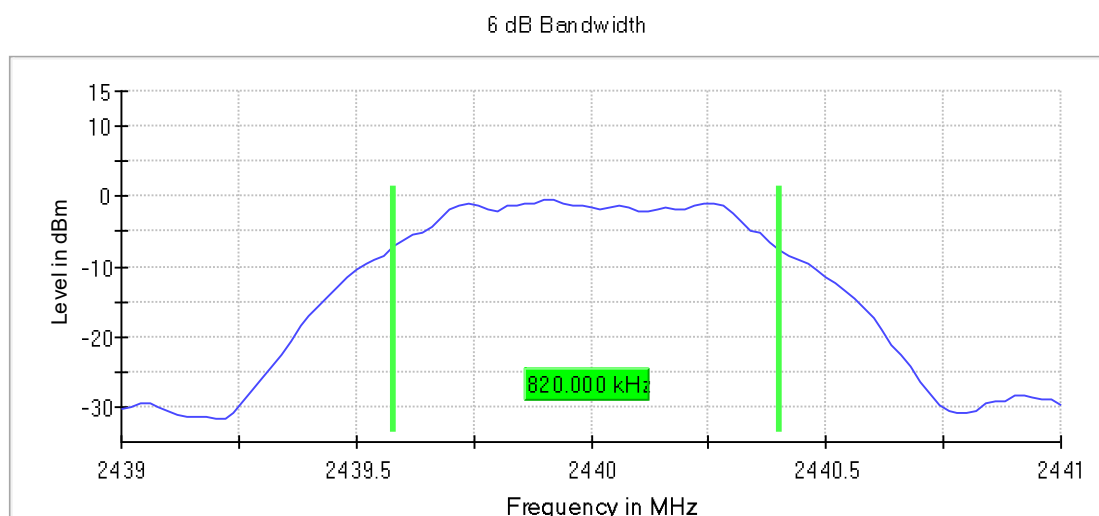
Operation Band MHz = [2400, 2483.5]

Frequency MHz = 2440

Active Port = 1

Modulation = BTLE 1 MBPS

Images:



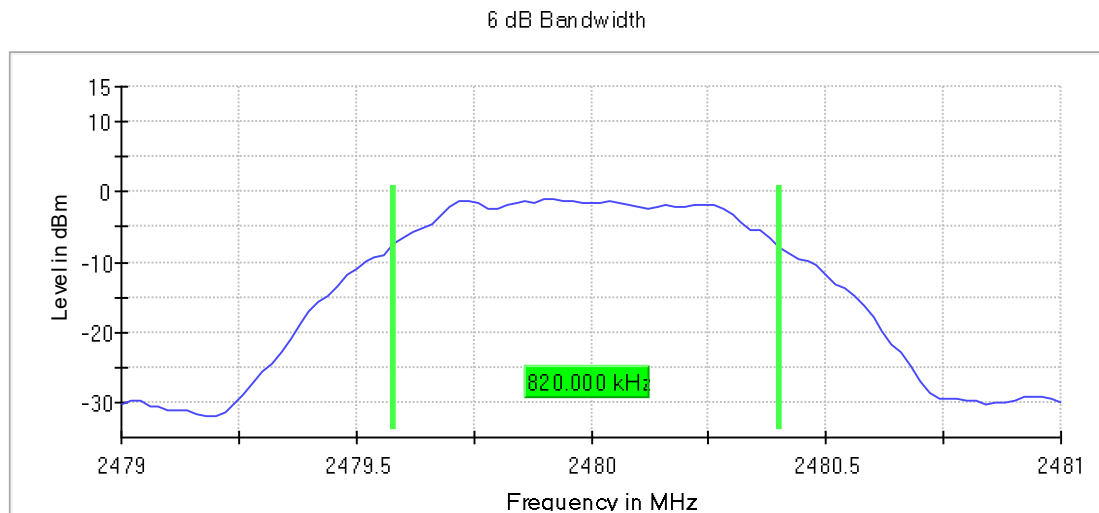
Operation Band MHz = [2400, 2483.5]

Frequency MHz = 2480

Active Port = 1

Modulation = BTLE 1 MBPS

Images:



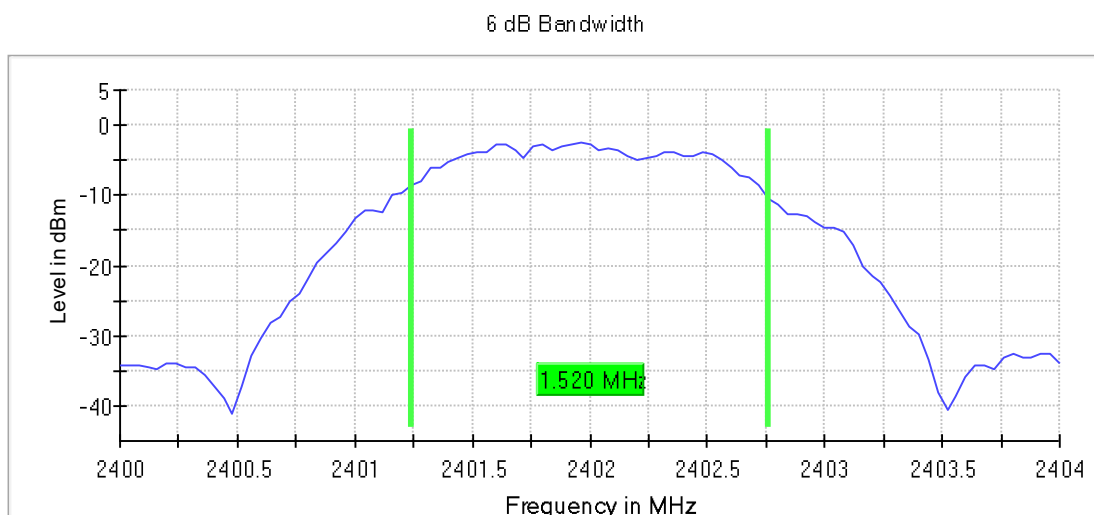
Operation Band MHz = [2400, 2483.5]

Frequency MHz = 2402

Active Port = 1

Modulation = BTLE 2 MBPS

Images:



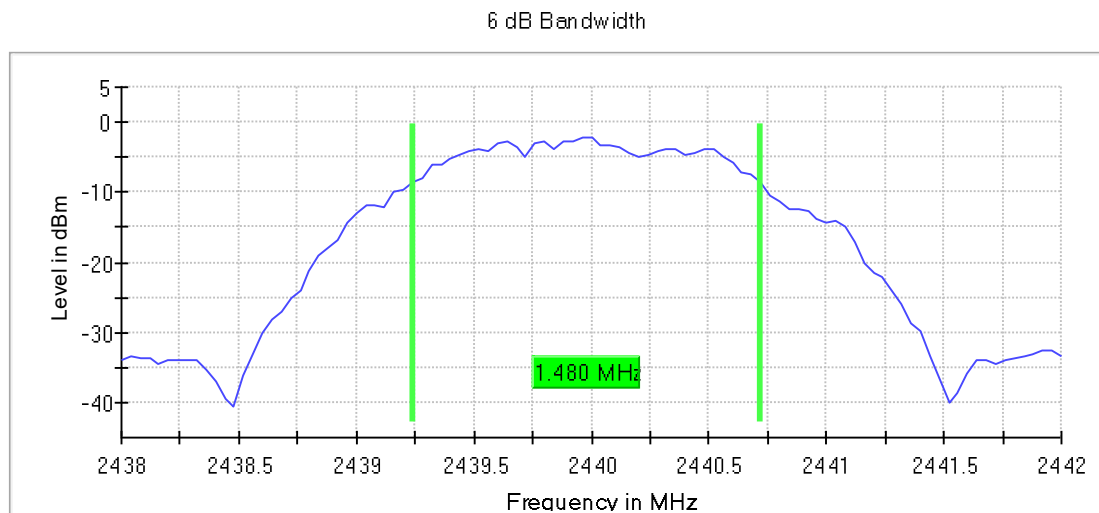
Operation Band MHz = [2400, 2483.5]

Frequency MHz = 2440

Active Port = 1

Modulation = BTLE 2 MBPS

Images:



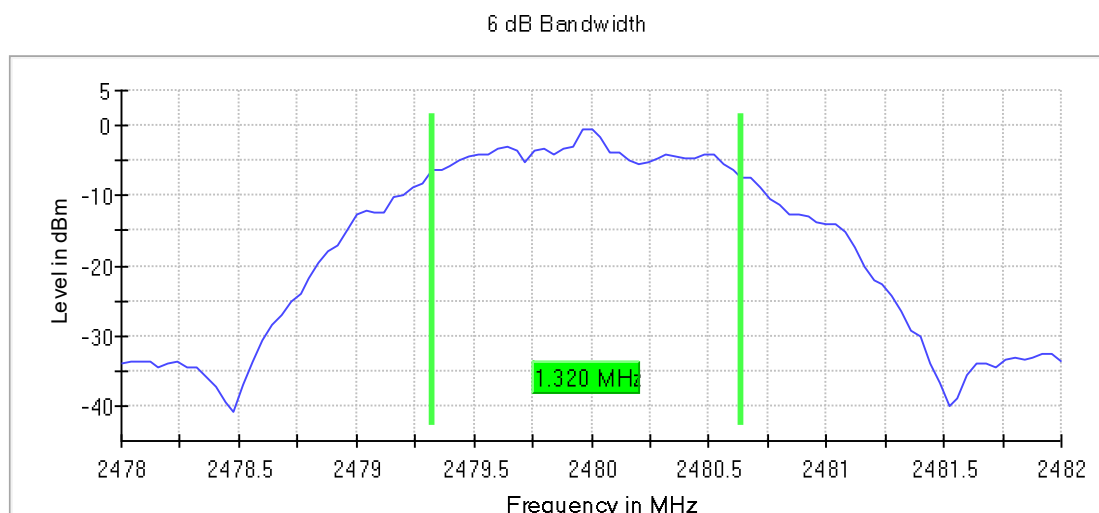
Operation Band MHz = [2400, 2483.5]

Frequency MHz = 2480

Active Port = 1

Modulation = BTLE 2 MBPS

Images:



FCC 47 CFR Part 15.247 / RSS-247

RSS-247 6.3.1. (b) / FCC 15.247 (e) [PSD] Power Spectral Density

Limits

USA FCC Part 15.247 (01-26-2026):

FCC 15.247:

(e) For digitally modulated systems, 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. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.

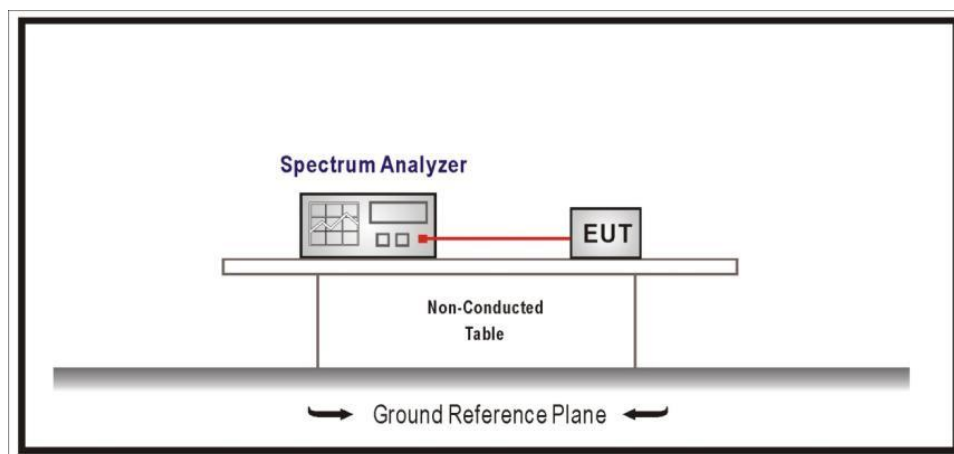
CANADA RSS-247 Issue 4 (July 2025):

6.3.1 Bandwidth and conducted power spectral density

The following applies to the bands 902-928 MHz and 2400-2483.5 MHz:

b. the transmitter power spectral density conducted from the transmitter to the antenna(s) shall not be greater than 8 dBm/3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of section 6.3.2 The power spectral density shall be determined using the same method as is used to determine the maximum conducted output power.

TEST SETUP:



Modulation: BTLE (GFSK 1 Mbit/s)
Results

Operation Band (MHz)	Equipment	Freq (MHz)	Port	PSD (dBm)
[2400, 2483.5]	Digital Transmission System (DTS)	2402.00000	1	-8.77
				-8.94
		2440.00000		-8.99
				-9.19
		2480.00000		-9.43
				-9.61

Verdict

Pass

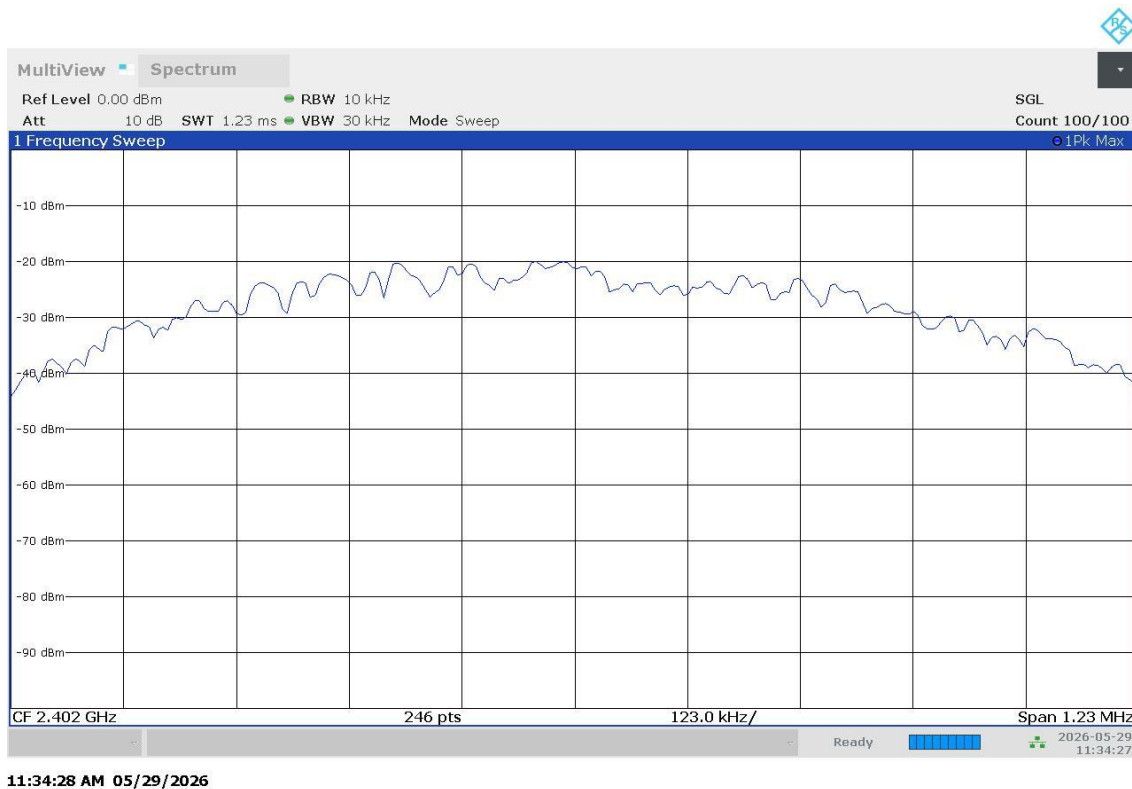
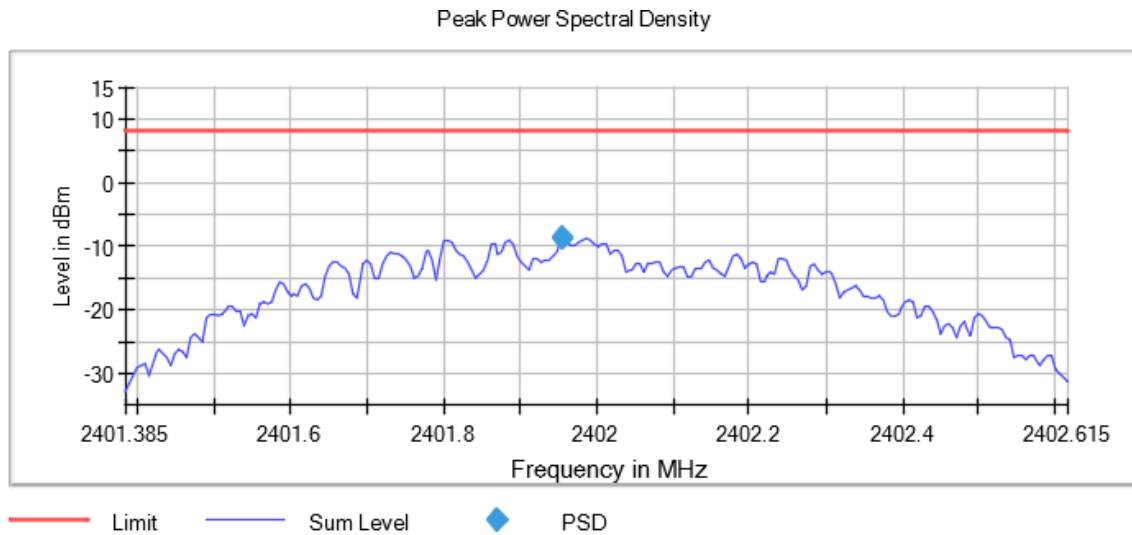
Attachments

Operation Band MHz = [2400, 2483.5] Equipment Type = Digital Transmission System (DTS)

Frequency MHz = 2402.00000 Active Port = 1

Modulation = BTLE (GFSK 1 Mbit/s)

Images:

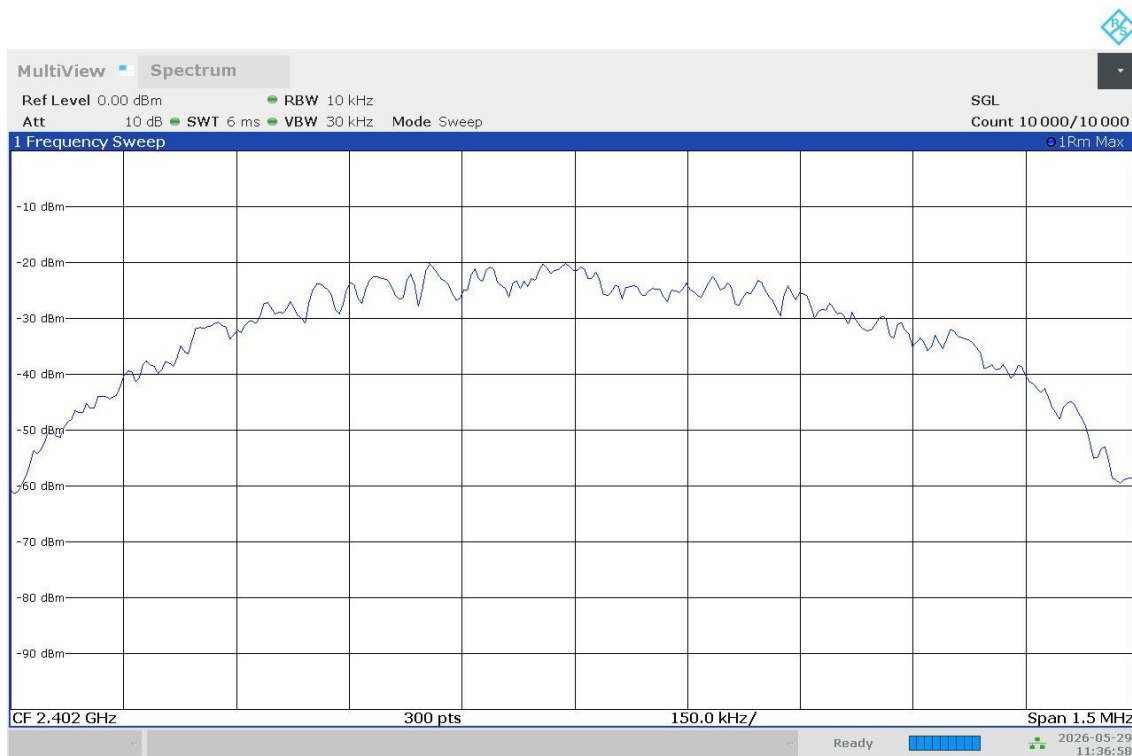
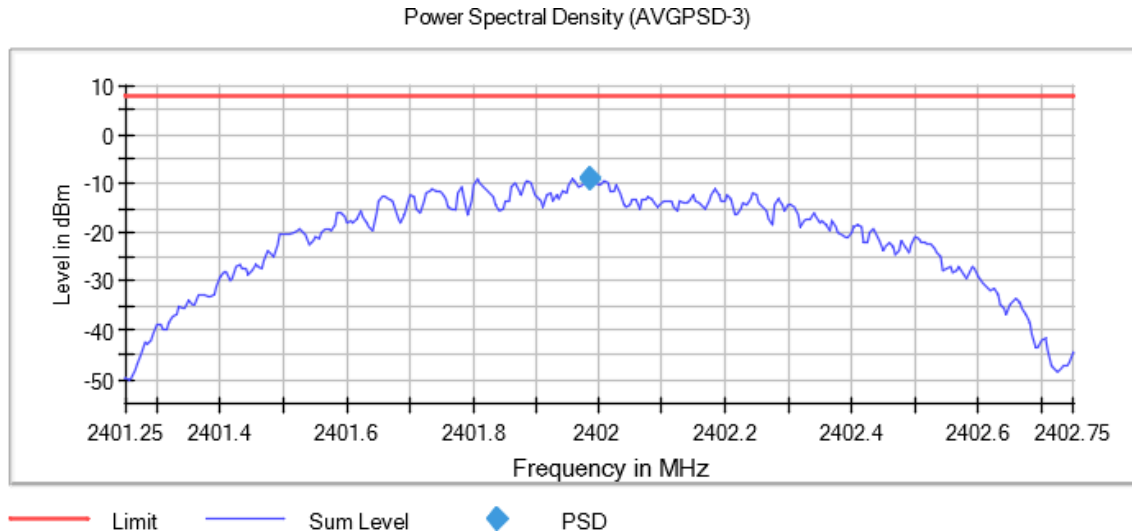


Operation Band MHz = [2400, 2483.5] Equipment Type = Digital Transmission System (DTS)

Frequency MHz = 2402.00000 Active Port = 1

Modulation = BTLE (GFSK 1 Mbit/s)

Images:



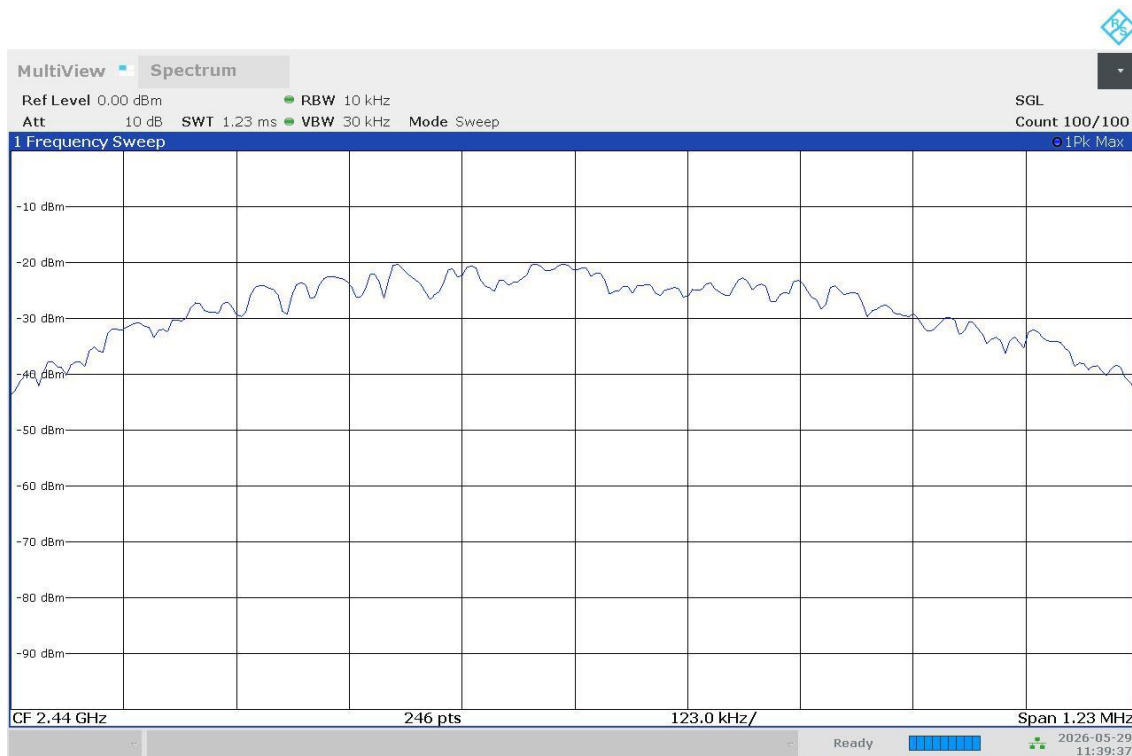
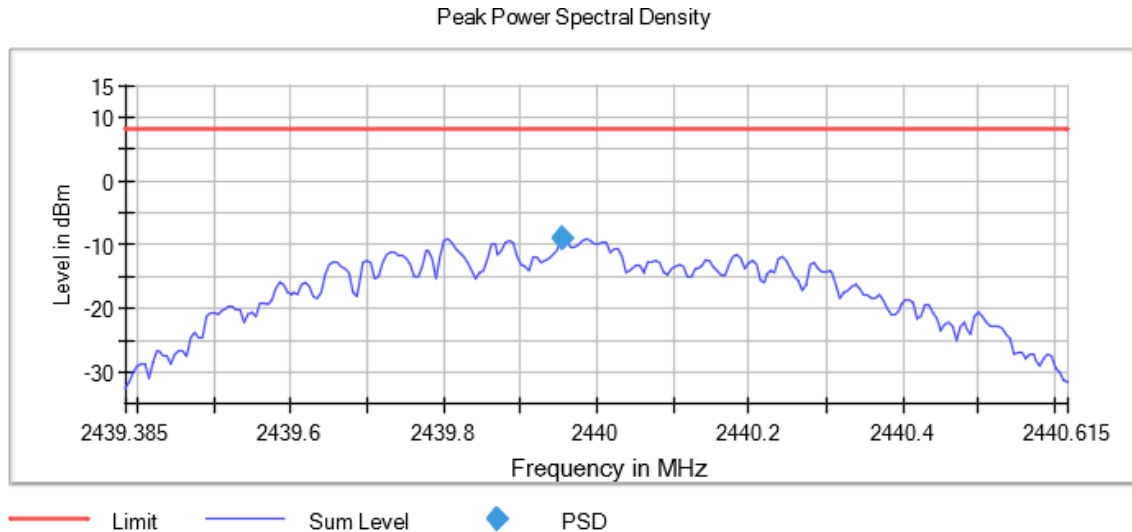
11:36:59 AM 05/29/2026

Operation Band MHz = [2400, 2483.5] Equipment Type = Digital Transmission System (DTS)

Frequency MHz = 2440.00000 Active Port = 1

Modulation = BTLE (GFSK 1 Mbit/s)

Images:



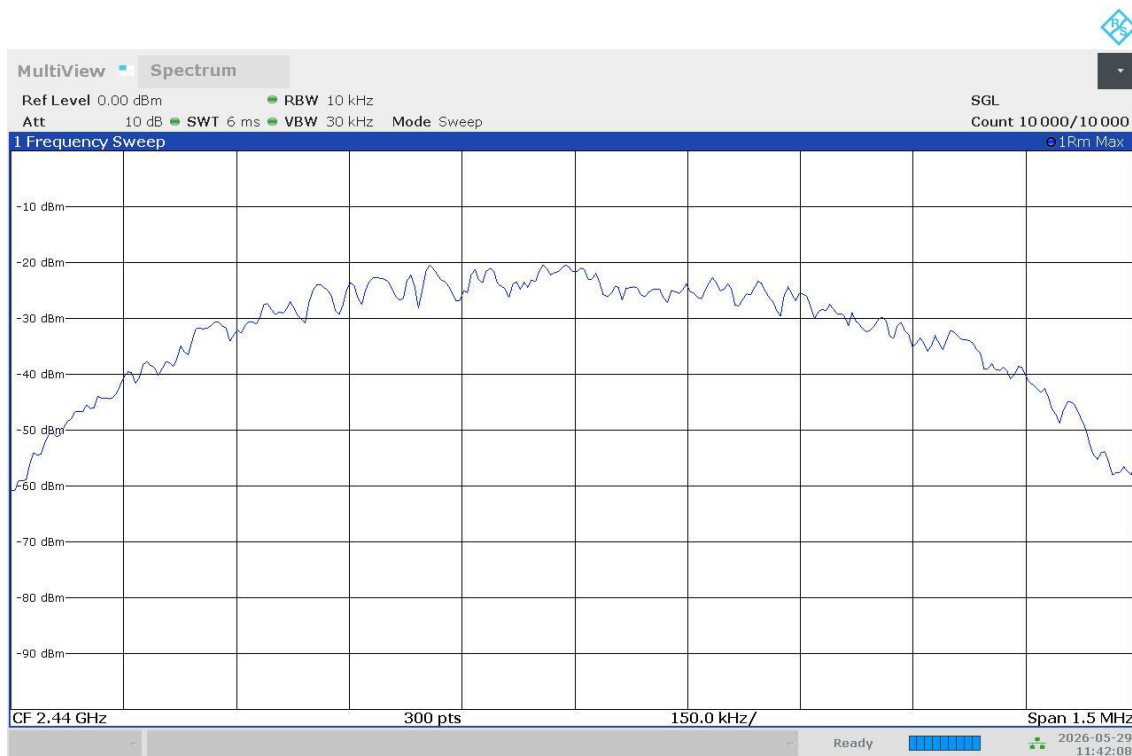
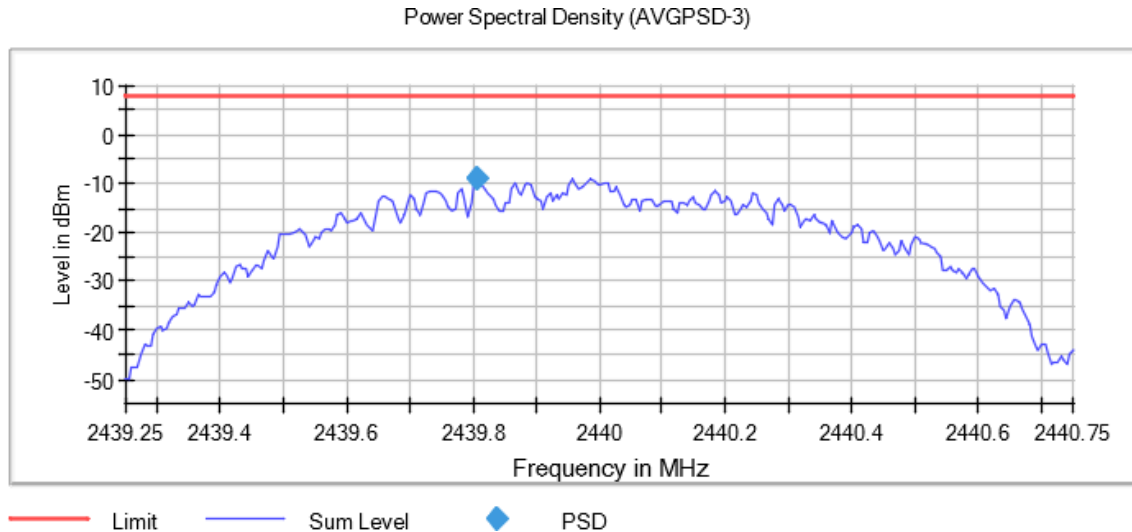
11:39:37 AM 05/29/2026

Operation Band MHz = [2400, 2483.5] Equipment Type = Digital Transmission System (DTS)

Frequency MHz = 2440.00000 Active Port = 1

Modulation = BTLE (GFSK 1 Mbit/s)

Images:



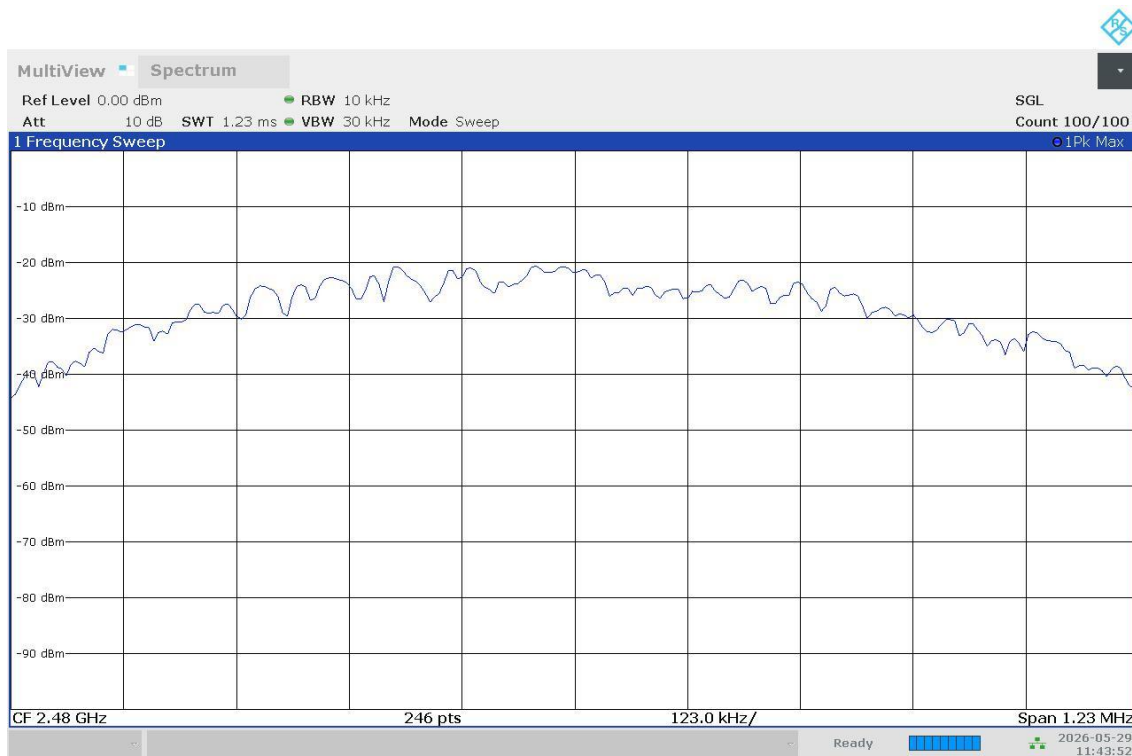
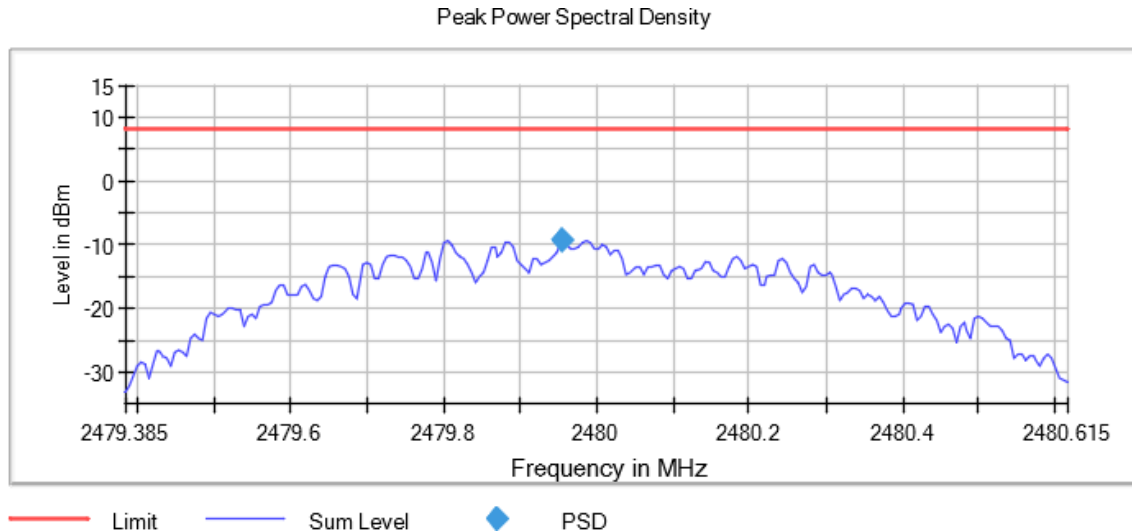
11:42:08 AM 05/29/2026

Operation Band MHz = [2400, 2483.5] Equipment Type = Digital Transmission System (DTS)

Frequency MHz = 2480.00000 Active Port = 1

Modulation = BTLE (GFSK 1 Mbit/s)

Images:



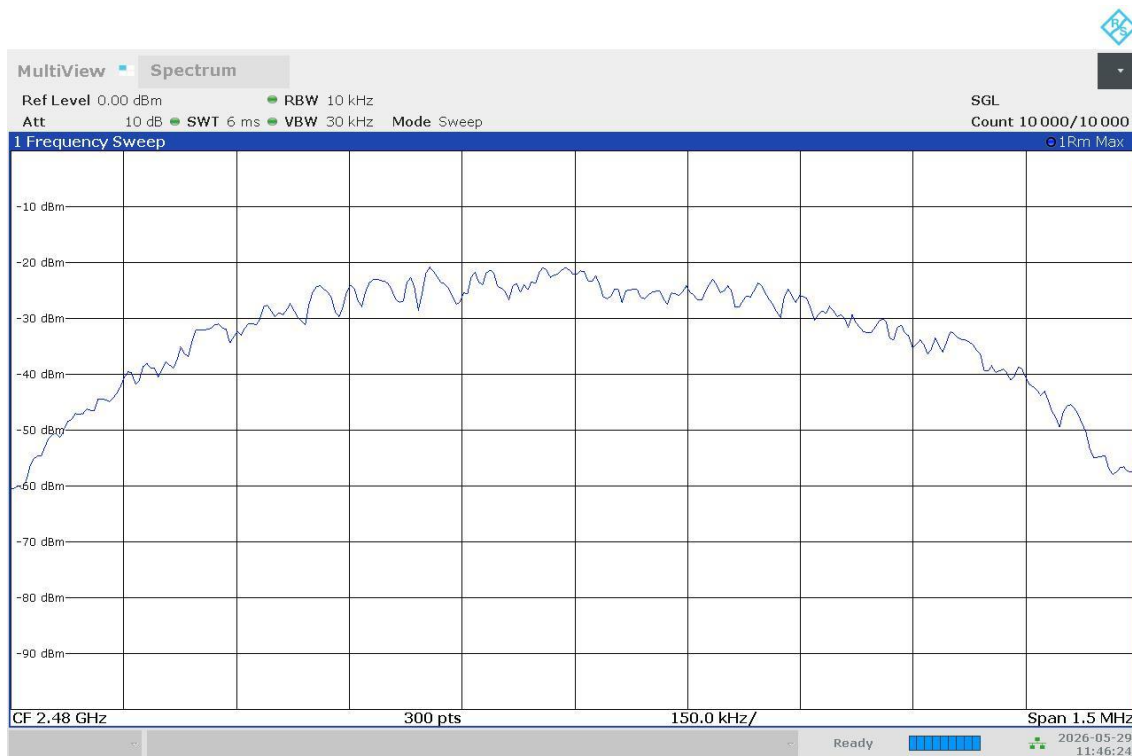
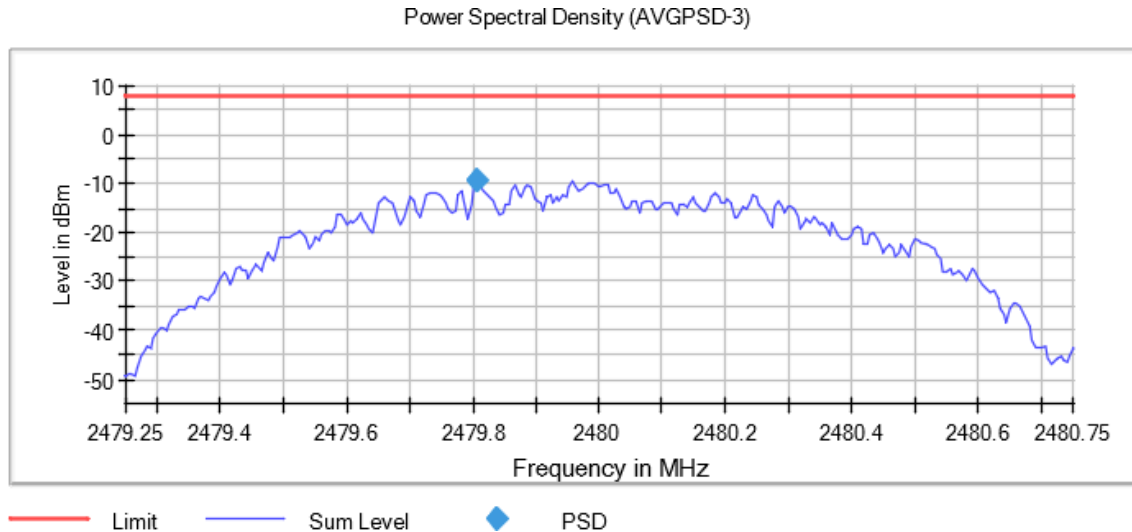
11:43:53 AM 05/29/2026

Operation Band MHz = [2400, 2483.5] Equipment Type = Digital Transmission System (DTS)

Frequency MHz = 2480.00000 Active Port = 1

Modulation = BTLE (GFSK 1 Mbit/s)

Images:



11:46:25 AM 05/29/2026

Modulation: BTLE (GFSK 2 Mbit/s)
Results

Operation Band (MHz)	Equipment	Freq (MHz)	Port	PSD (dBm)
[2400, 2483.5]	Digital Transmission System (DTS)	2402.00000	1	-9.09
				-8.92
		2440.00000		-9.30
				-9.16
		2480.00000		-9.76
				-9.64

Verdict

Pass

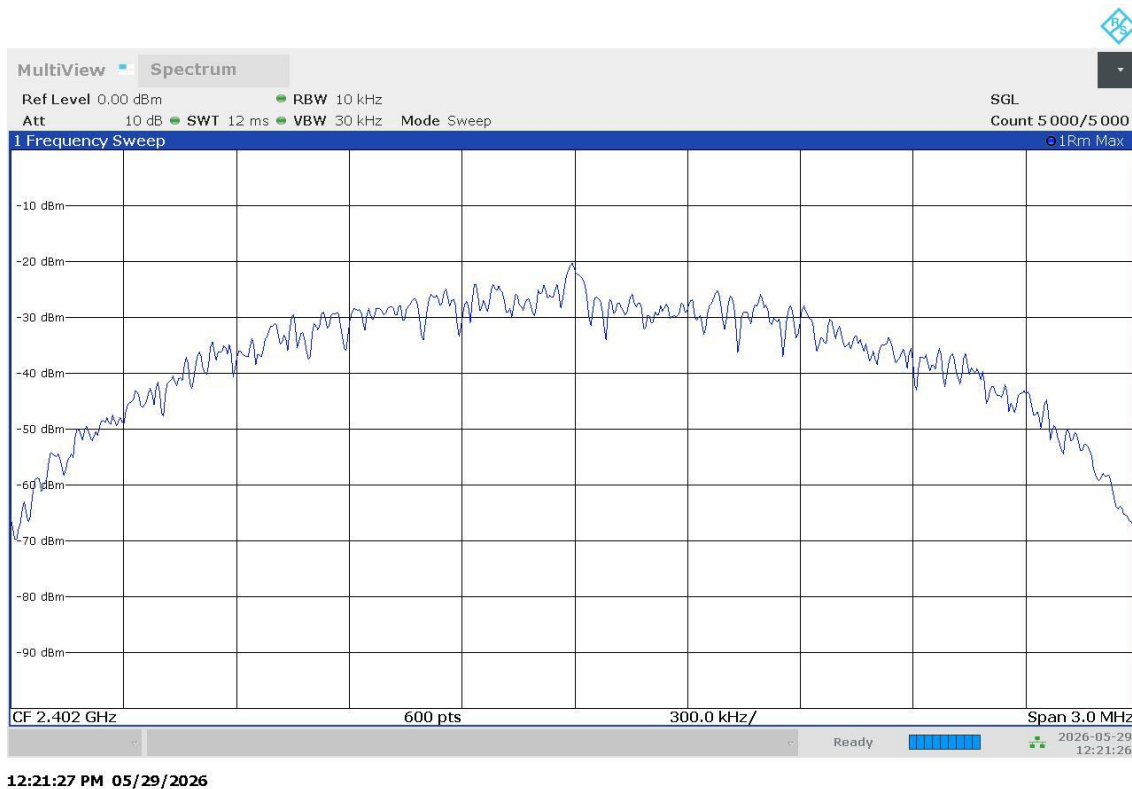
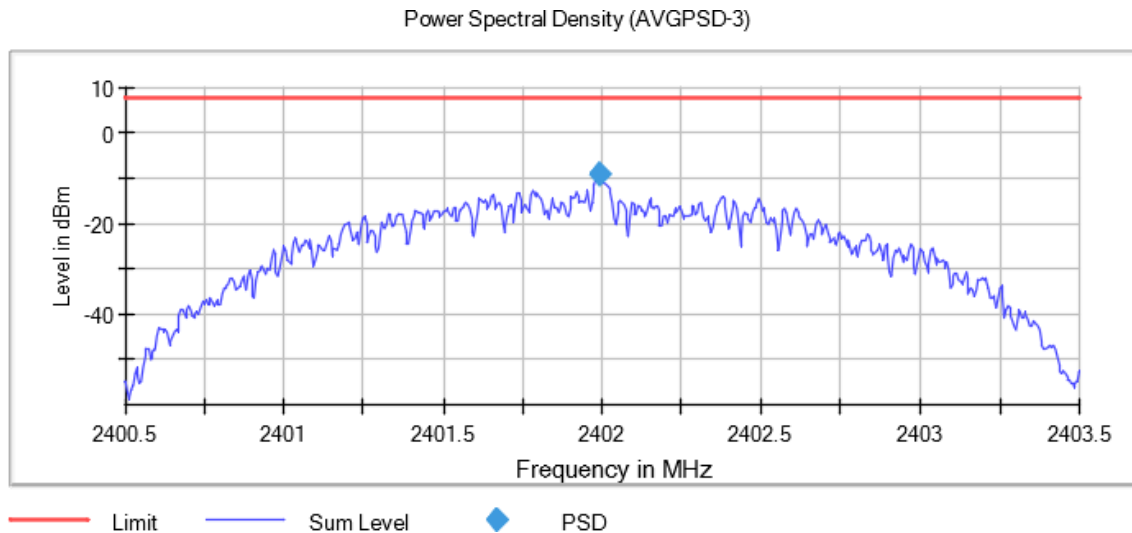
Attachments

Operation Band MHz = [2400, 2483.5] Equipment Type = Digital Transmission System (DTS)

Frequency MHz = 2402.00000 Active Port = 1

Modulation = BTLE (GFSK 2 Mbit/s)

Images:

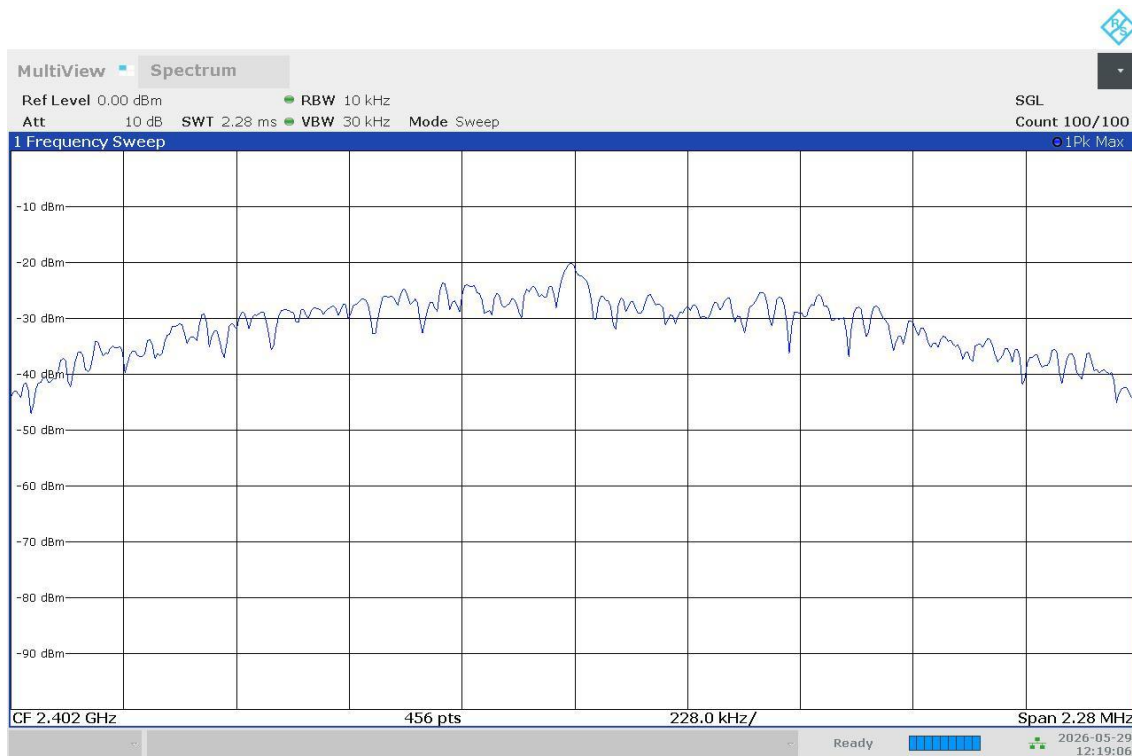
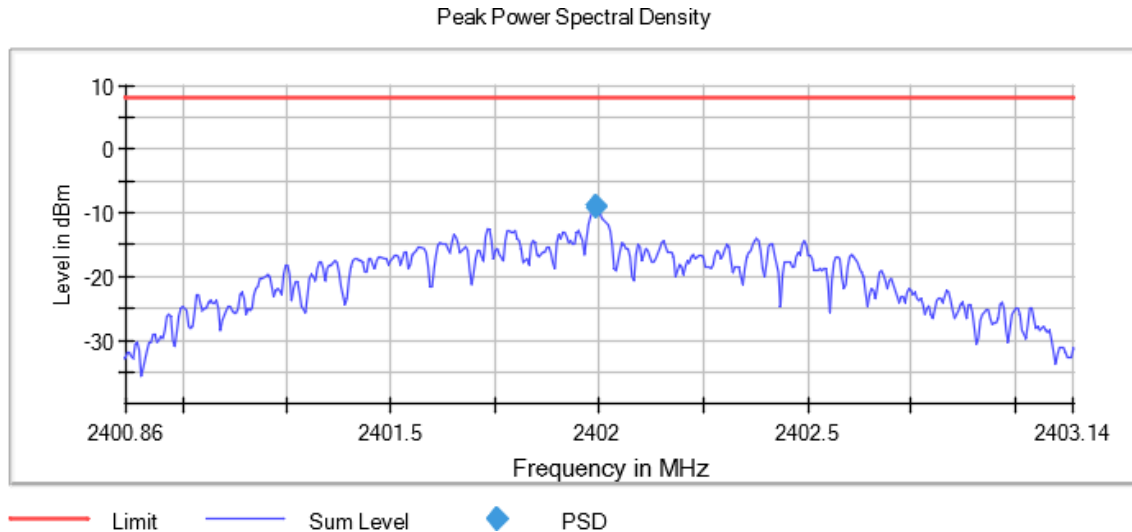


Operation Band MHz = [2400, 2483.5] Equipment Type = Digital Transmission System (DTS)

Frequency MHz = 2402.00000 Active Port = 1

Modulation = BTLE (GFSK 2 Mbit/s)

Images:



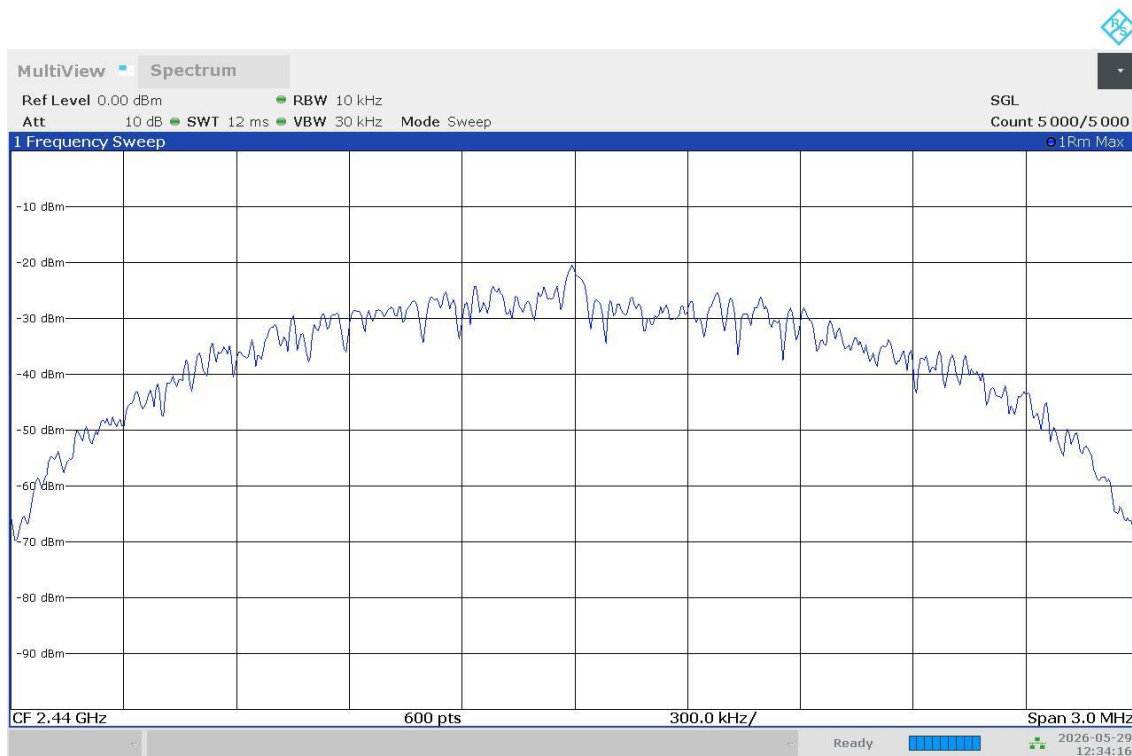
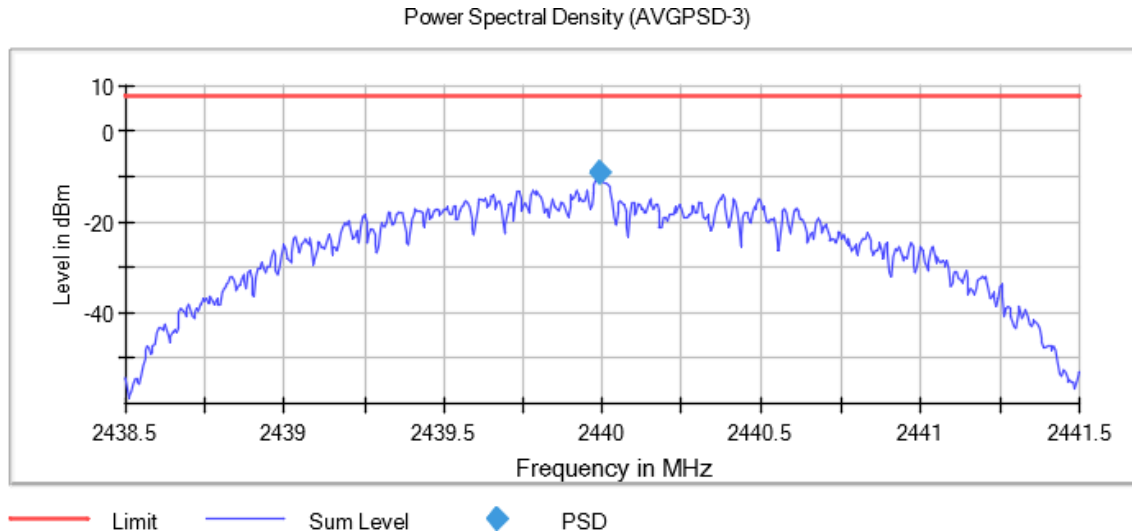
12:19:07 PM 05/29/2026

Operation Band MHz = [2400, 2483.5] Equipment Type = Digital Transmission System (DTS)

Frequency MHz = 2440.00000 Active Port = 1

Modulation = BTLE (GFSK 2 Mbit/s)

Images:



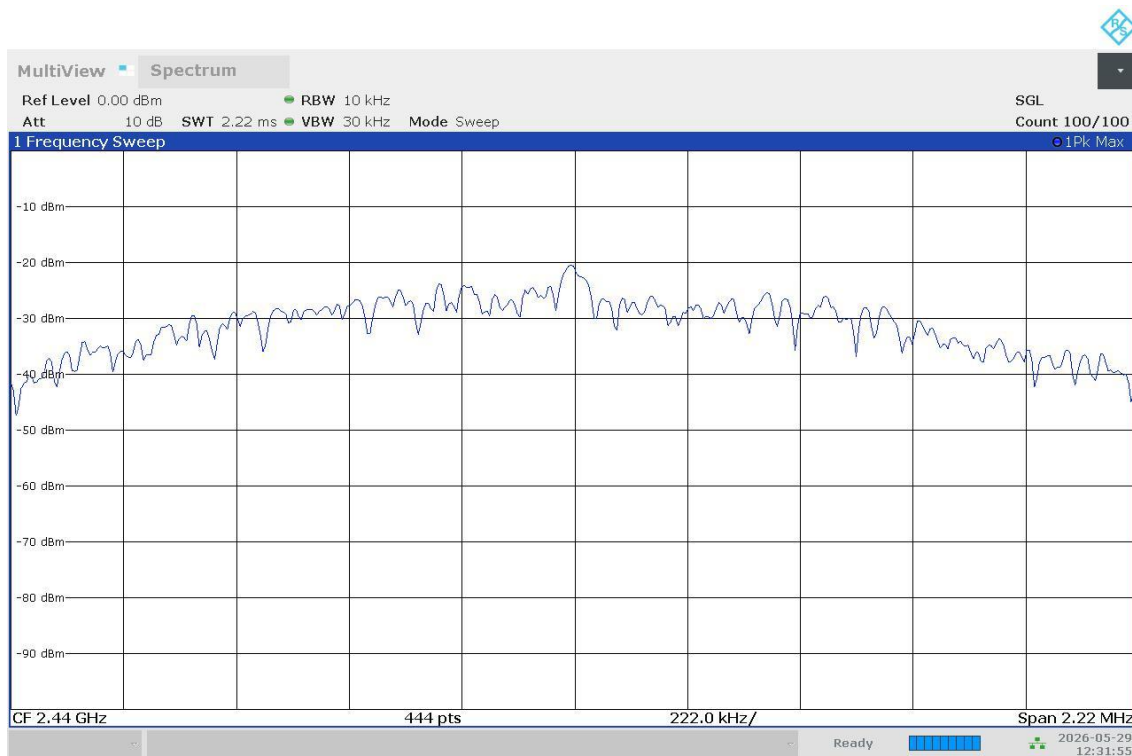
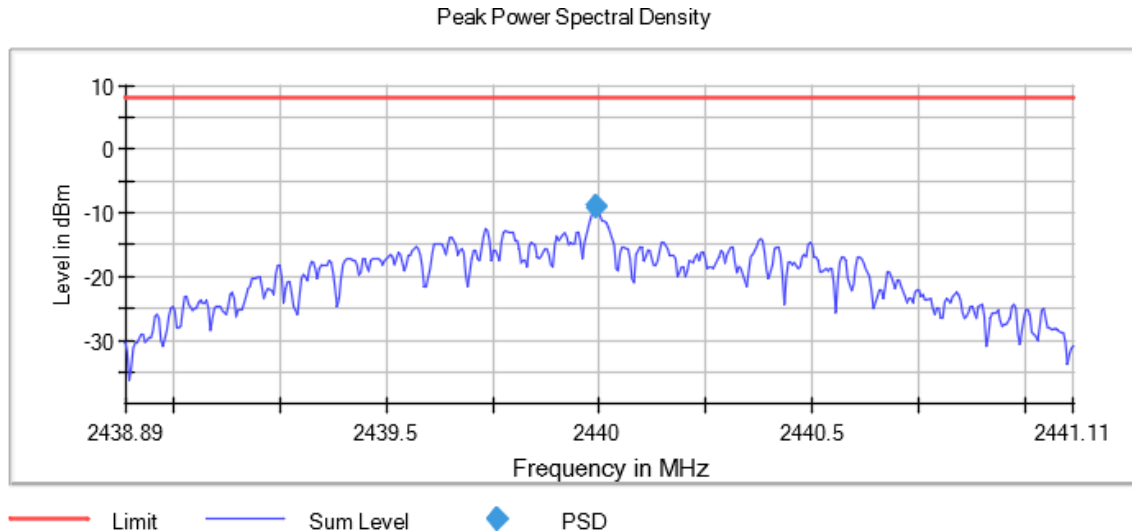
12:34:16 PM 05/29/2026

Operation Band MHz = [2400, 2483.5] Equipment Type = Digital Transmission System (DTS)

Frequency MHz = 2440.00000 Active Port = 1

Modulation = BTLE (GFSK 2 Mbit/s)

Images:



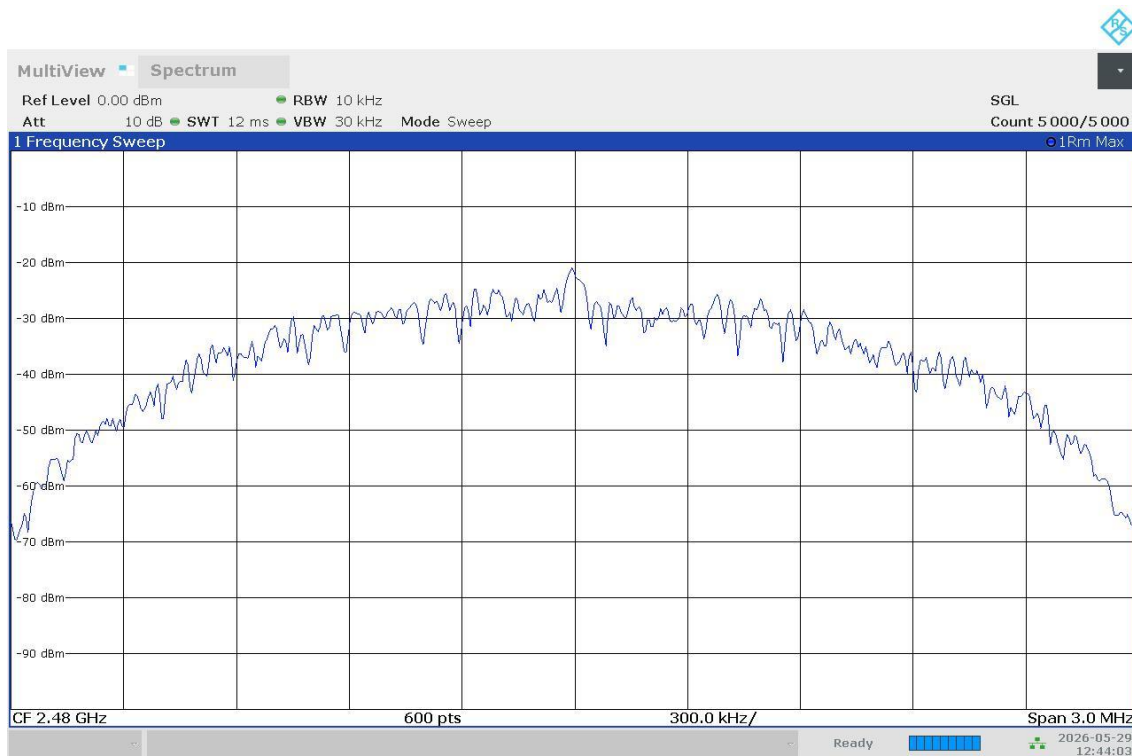
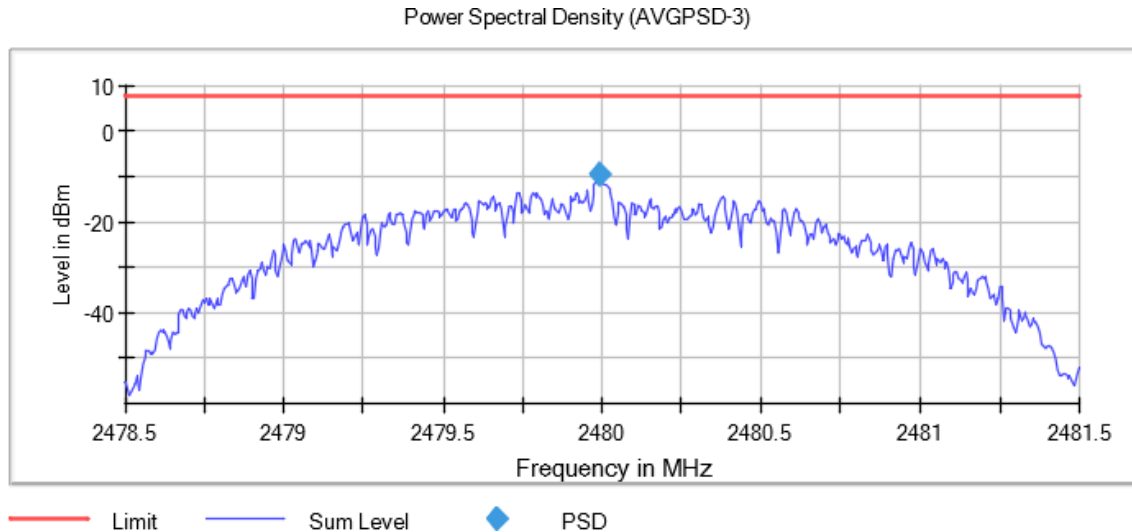
12:31:56 PM 05/29/2026

Operation Band MHz = [2400, 2483.5] Equipment Type = Digital Transmission System (DTS)

Frequency MHz = 2480.00000 Active Port = 1

Modulation = BTLE (GFSK 2 Mbit/s)

Images:



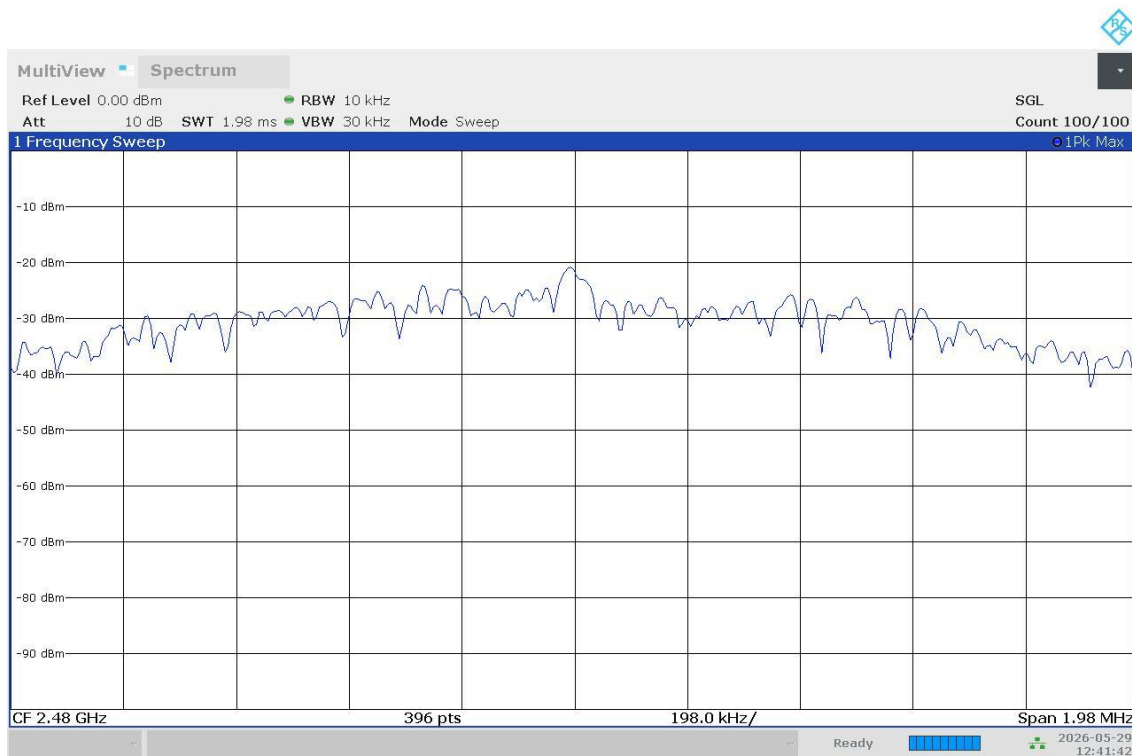
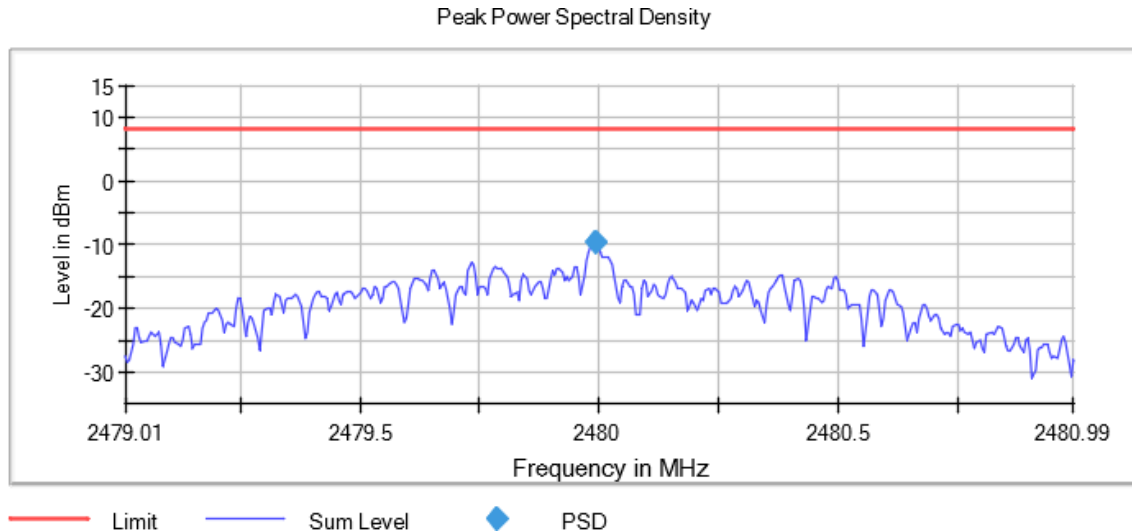
12:44:03 PM 05/29/2026

Operation Band MHz = [2400, 2483.5] Equipment Type = Digital Transmission System (DTS)

Frequency MHz = 2480.00000 Active Port = 1

Modulation = BTLE (GFSK 2 Mbit/s)

Images:



12:41:43 PM 05/29/2026

RSS-247 6.3.2 / FCC 15.247 (b) [Pkcp] Maximum Peak Conducted Output Power

Limits

USA FCC Part 15.247 (01-26-2026):

FCC 15.247:

(b) The maximum peak conducted output power of the intentional radiator shall not exceed the following.

(1) For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 watts.

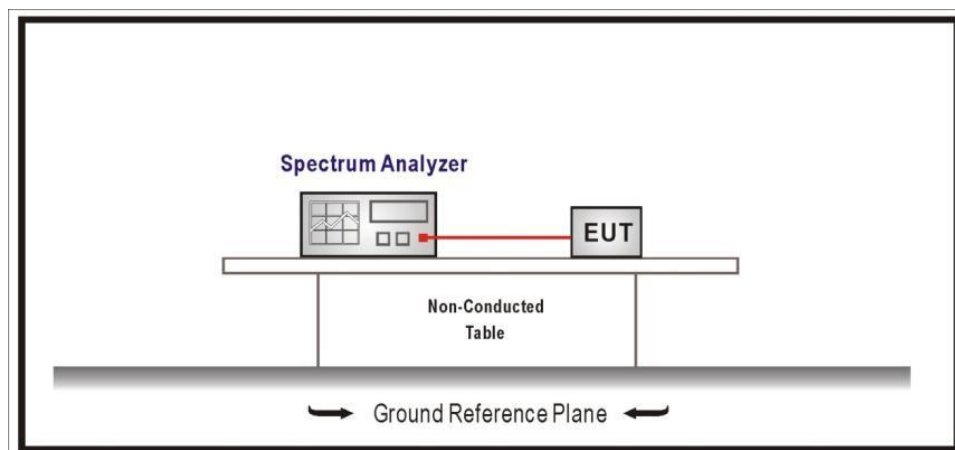
CANADA RSS-247 Issue 4 (July 2025):

6.3.2 Transmitter output power and e.i.r.p. requirements

For DTS operating in the band 2400-2483.5 MHz, the maximum peak conducted output power shall not exceed 1W, and the e.i.r.p. shall not exceed 4 W, except as provided in section 6.5 a) and b).

As an alternative to a peak power measurement, compliance can be based on a measurement of the maximum conducted output power.

TEST SETUP:



The EIRP power (dBm) is calculated by adding the declared maximum antenna gain to the measured conducted power

Note1: The Max EIRP value was obtained by adding the antenna gain to the Pk+ Power

Power Directional Gain: = Antenna gain + $10\log(N_{ANT})$

Modulation: BTLE (GFSK 1 Mbit/s)
Results

Operation Band (MHz)	Equipment	Freq (MHz)	Port	Peak Power (dBm)	E.I.R.P. (dBm)
[2400, 2483.5]	Digital Transmission System (DTS)	2402.00000	1	2.43	4.42
		2440.00000		3.01	5.00
		2480.00000		2.65	4.64

Verdict

Pass

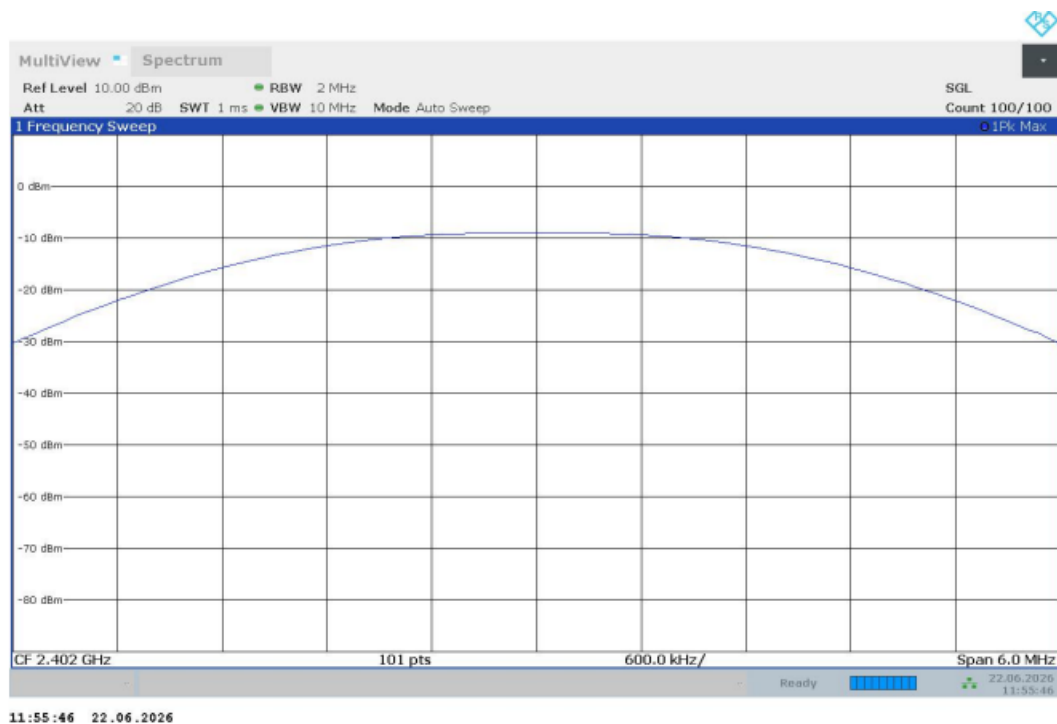
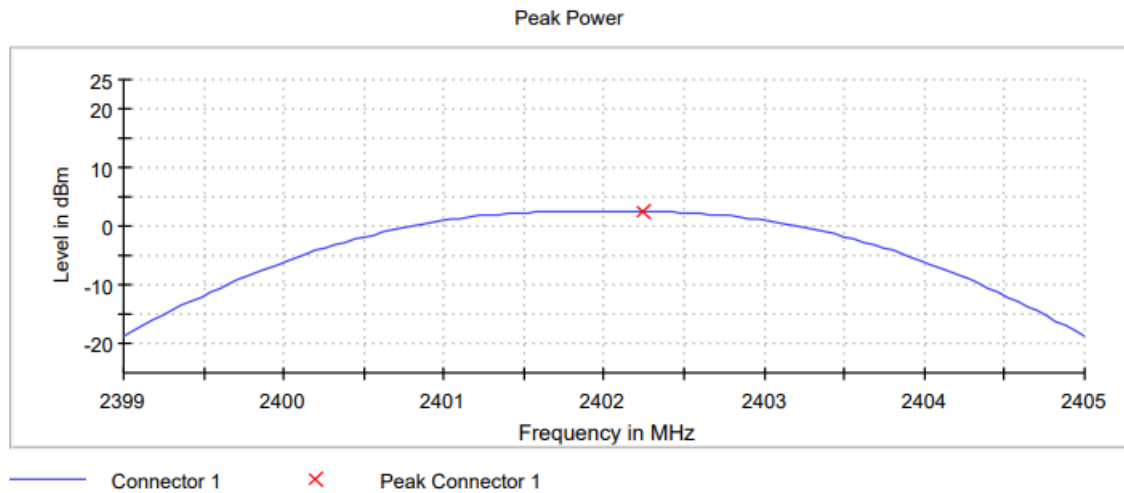
Attachments

Operation Band MHz = [2400, 2483.5] Equipment Type = Digital Transmission System (DTS)

Frequency MHz = 2402.00000 Active Port = 1

Modulation = BTLE (GFSK 1 Mbit/s)

Images:

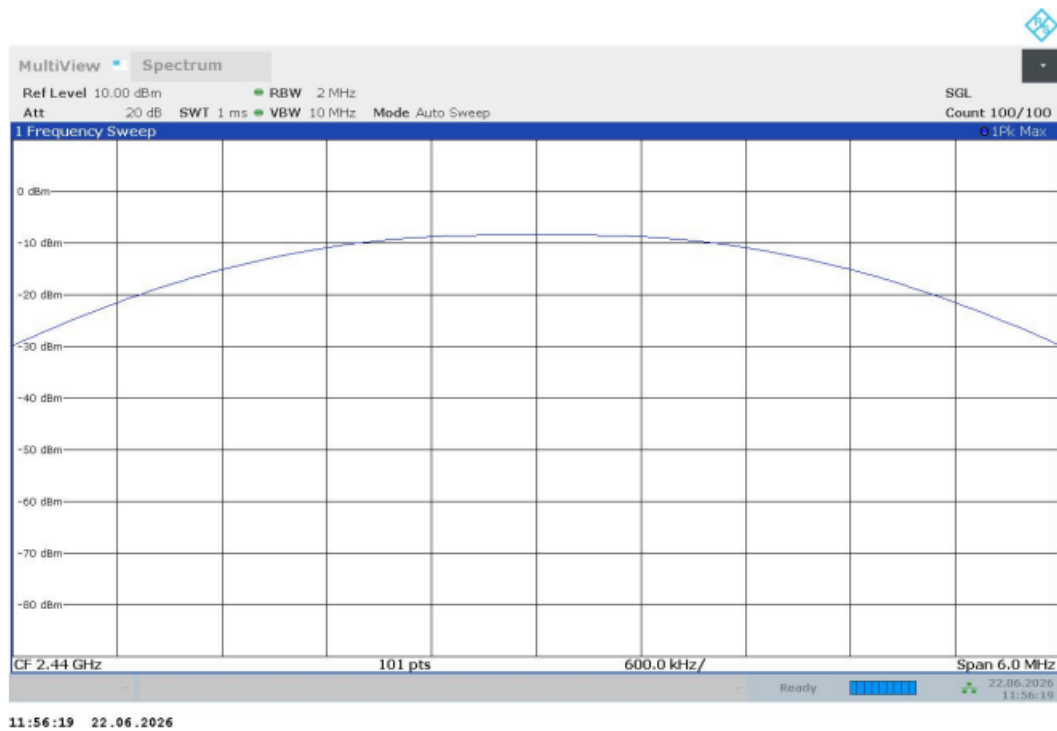
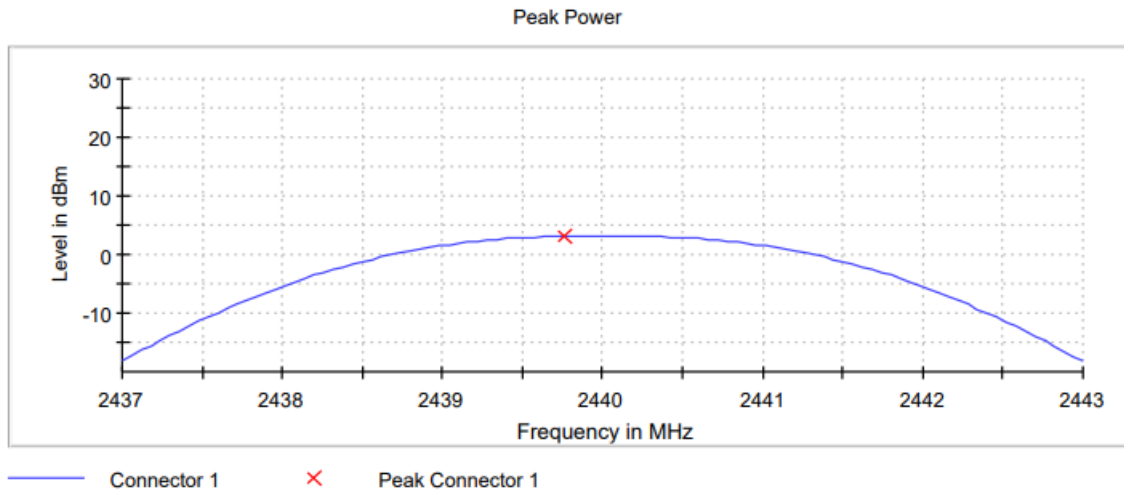


Operation Band MHz = [2400, 2483.5] Equipment Type = Digital Transmission System (DTS)

Frequency MHz = 2440.00000 Active Port = 1

Modulation = BTLE (GFSK 1 Mbit/s)

Images:

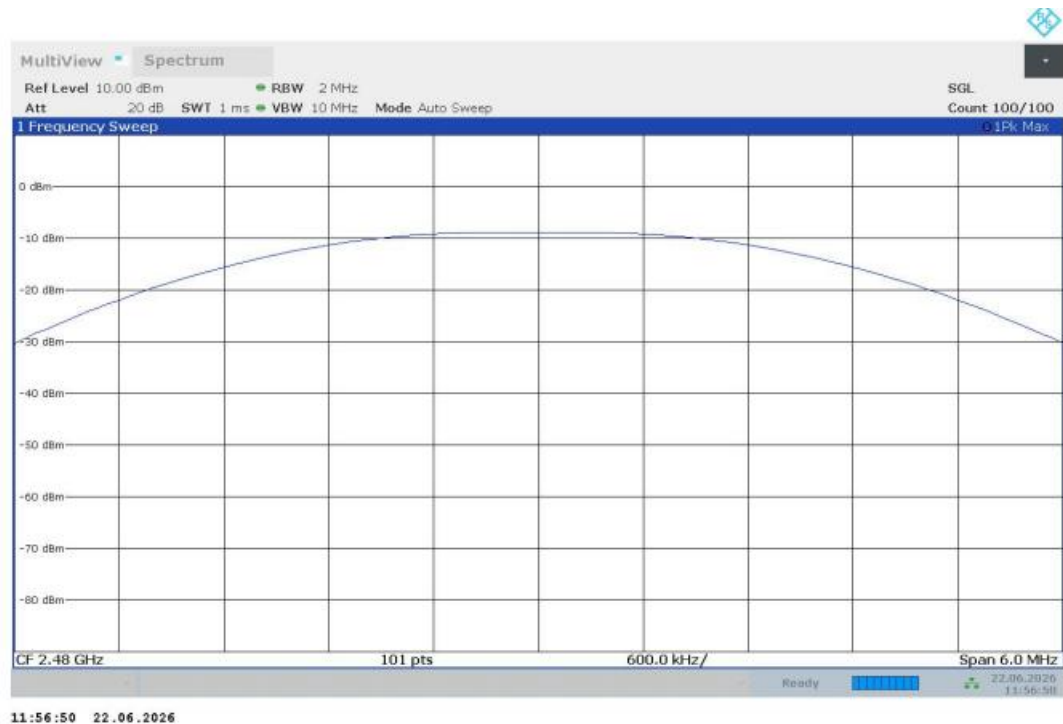
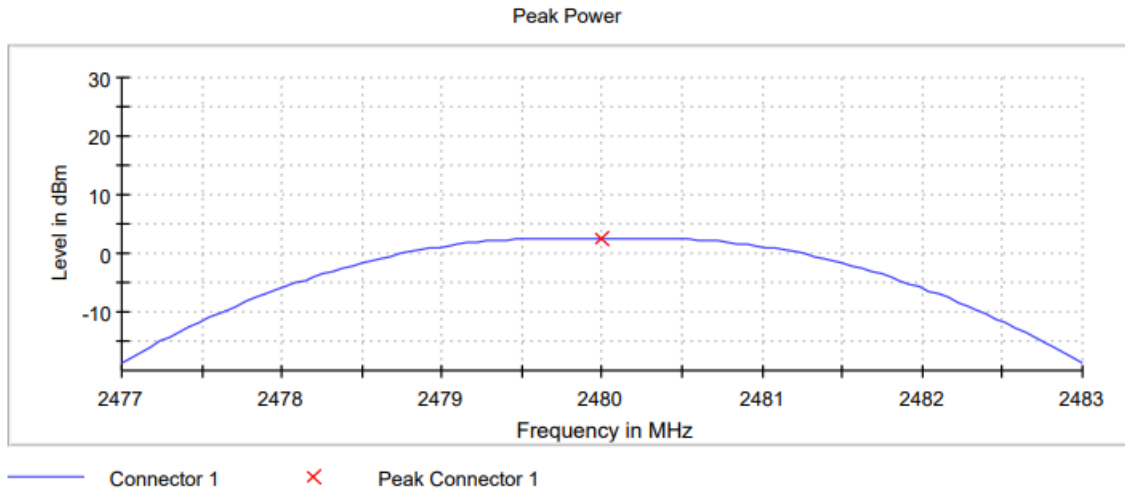


Operation Band MHz = [2400, 2483.5] Equipment Type = Digital Transmission System (DTS)

Frequency MHz = 2480.00000 Active Port = 1

Modulation = BTLE (GFSK 1 Mbit/s)

Images:



Modulation: BTLE (GFSK 2 Mbit/s)
Results

Operation Band (MHz)	Equipment	Freq (MHz)	Port	Peak Power (dBm)	E.I.R.P. (dBm)
[2400, 2483.5]	Digital Transmission System (DTS)	2402.00000	1	2.44	4.43
		2440.00000		3.03	5.02
		2480.00000		2.61	4.60

Verdict

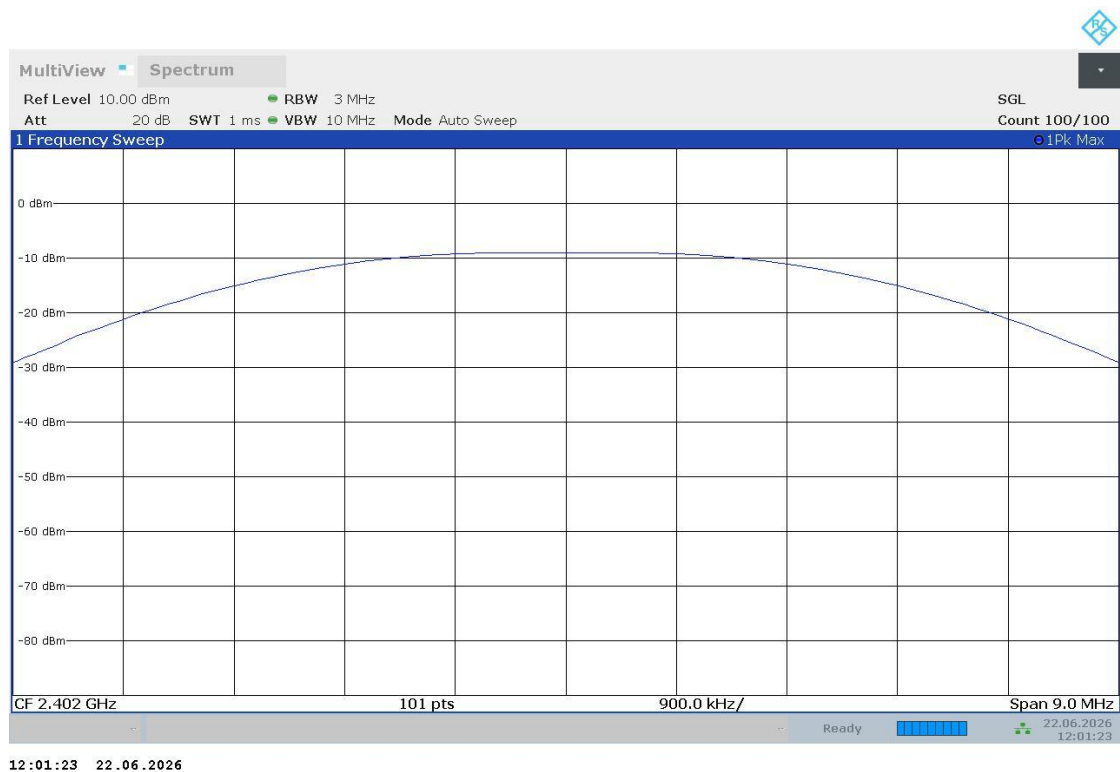
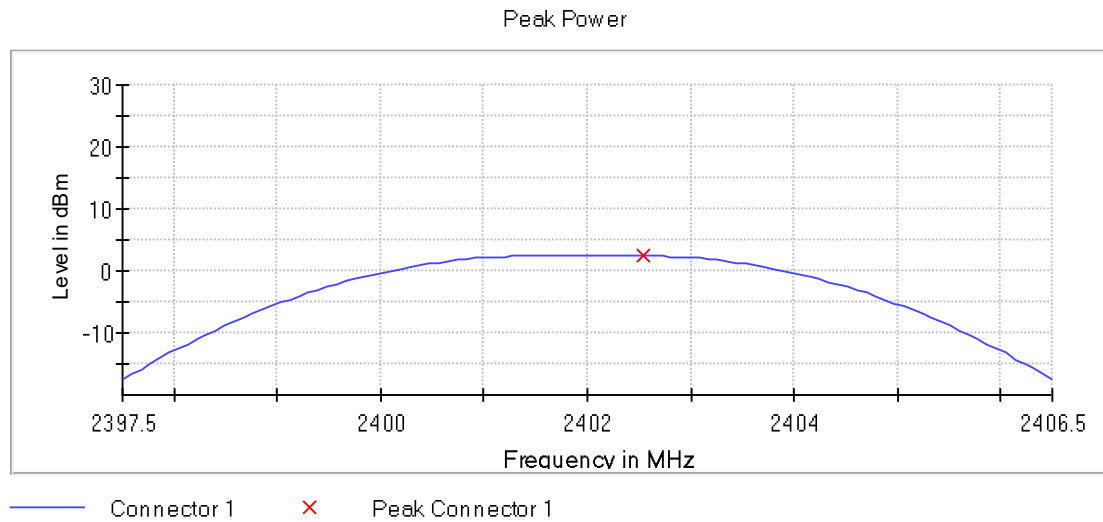
Pass

Operation Band MHz = [2400, 2483.5] Equipment Type = Digital Transmission System (DTS)

Frequency MHz = 2402.00000 Active Port = 1

Modulation = BTLE (GFSK 2 Mbit/s)

Images:

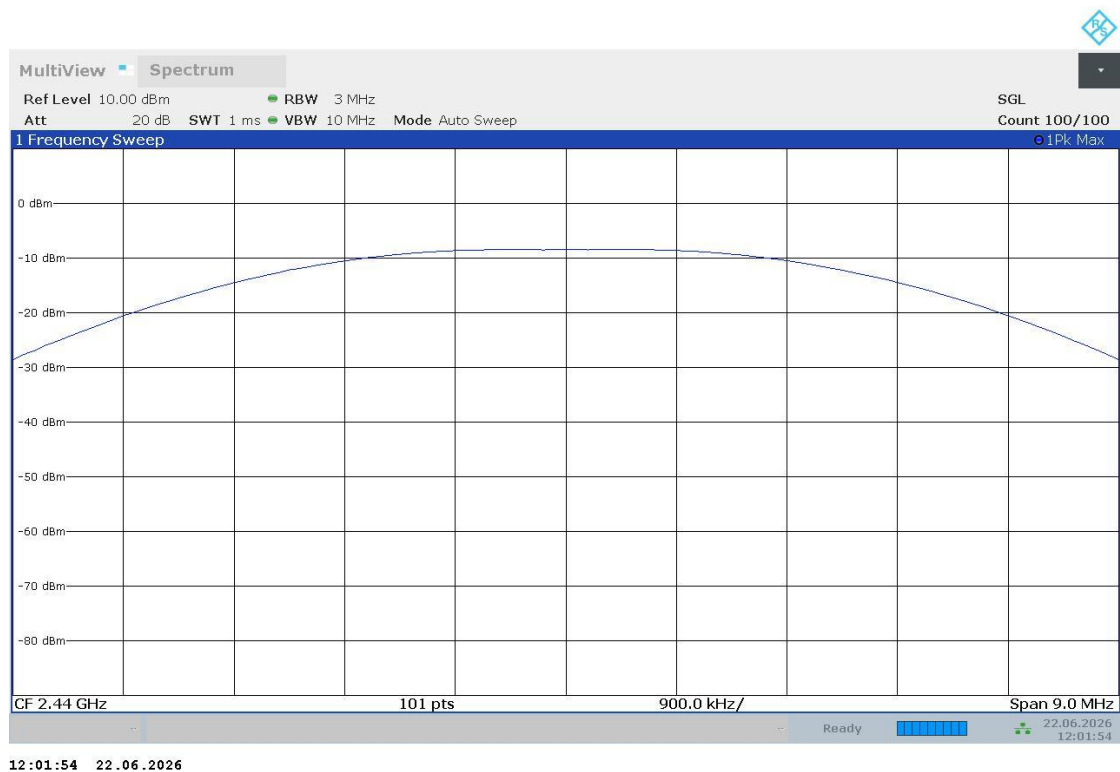
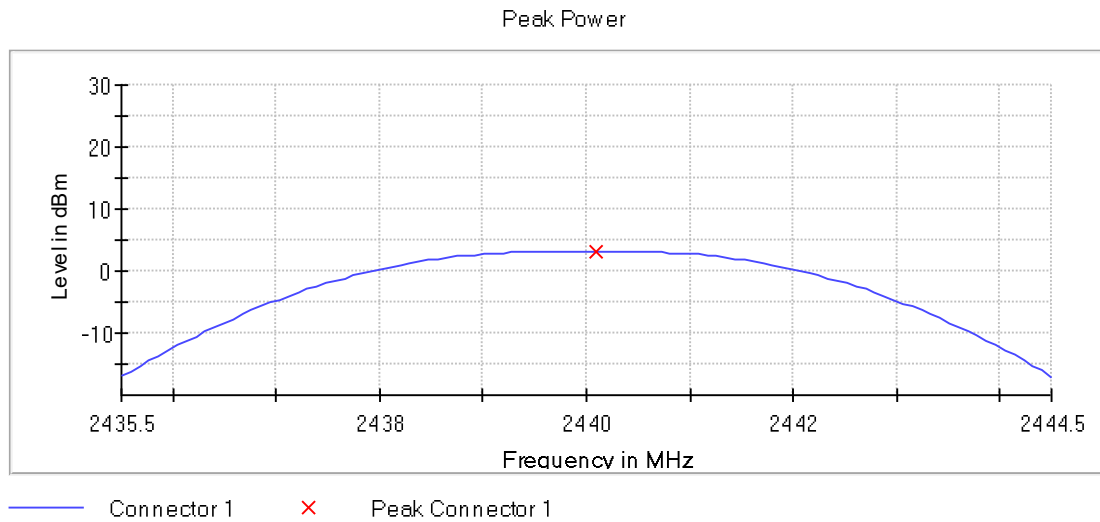


Operation Band MHz = [2400, 2483.5] Equipment Type = Digital Transmission System (DTS)

Frequency MHz = 2440.00000 Active Port = 1

Modulation = BTLE (GFSK 2 Mbit/s)

Images:

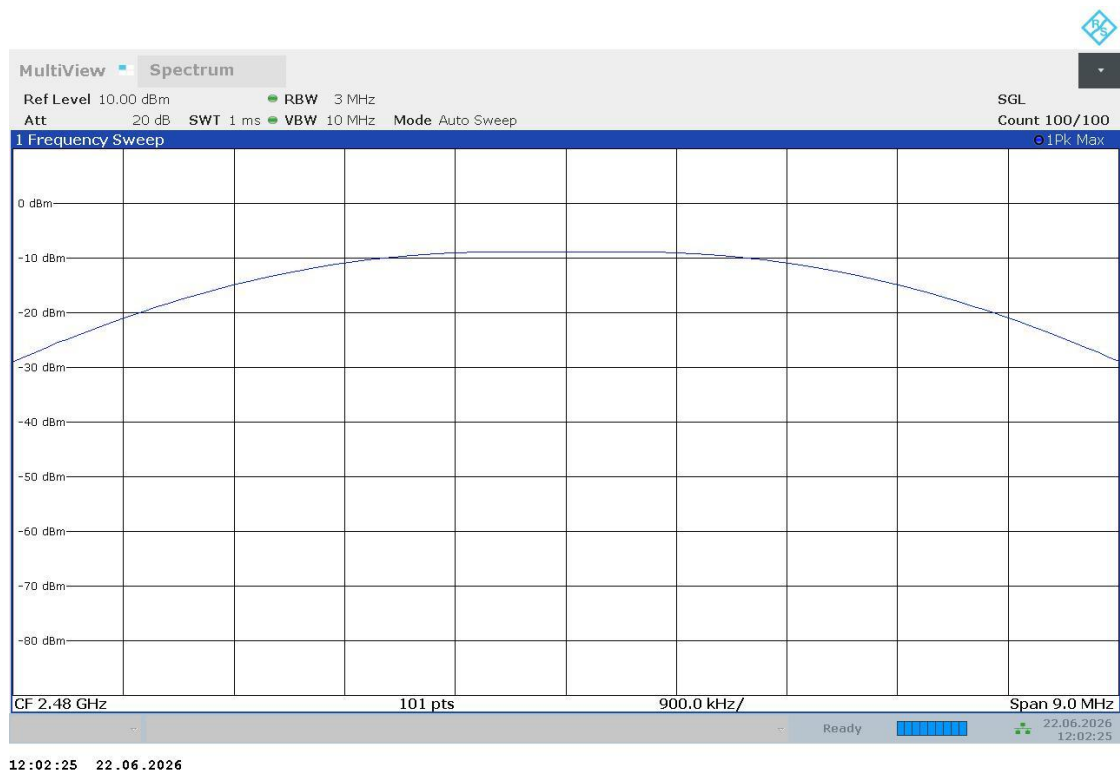
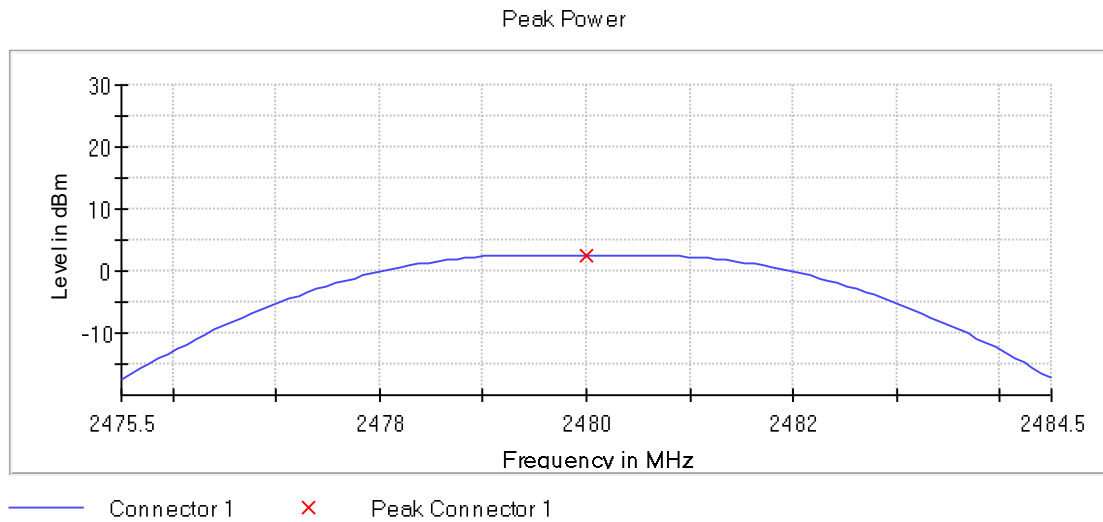


Operation Band MHz = [2400, 2483.5] Equipment Type = Digital Transmission System (DTS)

Frequency MHz = 2480.00000 Active Port = 1

Modulation = BTLE (GFSK 2 Mbit/s)

Images:



RSS-247 6.6 / FCC 15.247 (d) [Bndedge] Band-edge emissions compliance (Transmitter)

Limits

No Limit has been set to this test case

Modulation: BTLE (GFSK 1 Mbit/s)

Results

Operation Band (MHz)	Equipment	Freq (MHz)	Port	Inband Peak Lvl (dBm)	Freq (MHz)	Lvl (dBm)
[2400, 2483.5]	Digital Transmission System (DTS)	2402.00000	1	0.900	2399.649805	-49.7
				0.900	2399.949972	-49.8
				0.900	2399.599778	-50.0
				0.900	2399.699833	-50.1
				0.900	2400.000000	-50.1
				0.900	2399.499722	-50.1
				0.900	2399.549750	-50.2
				0.900	2399.749861	-50.8
				0.900	2399.449694	-50.9
				0.900	2399.899944	-51.5
				0.900	2399.799889	-51.7
				0.900	2399.849917	-52.3
				0.900	2398.999444	-52.9
				0.900	2398.949416	-52.9
				0.900	2399.099500	-53.0
		2480.00000		0.500	2483.550152	-53.3
				0.500	2483.600304	-53.7
				0.500	2484.101824	-53.8
				0.500	2484.151976	-53.8
				0.500	2483.650456	-54.4
				0.500	2484.051672	-54.5
				0.500	2484.653495	-55.0
				0.500	2483.700608	-55.0
				0.500	2484.202128	-55.0
				0.500	2484.001520	-55.0
				0.500	2484.603343	-55.0
				0.500	2483.951368	-55.1
				0.500	2484.703647	-55.3
				0.500	2485.255319	-55.4
				0.500	2485.305471	-55.6

Verdict

Pass

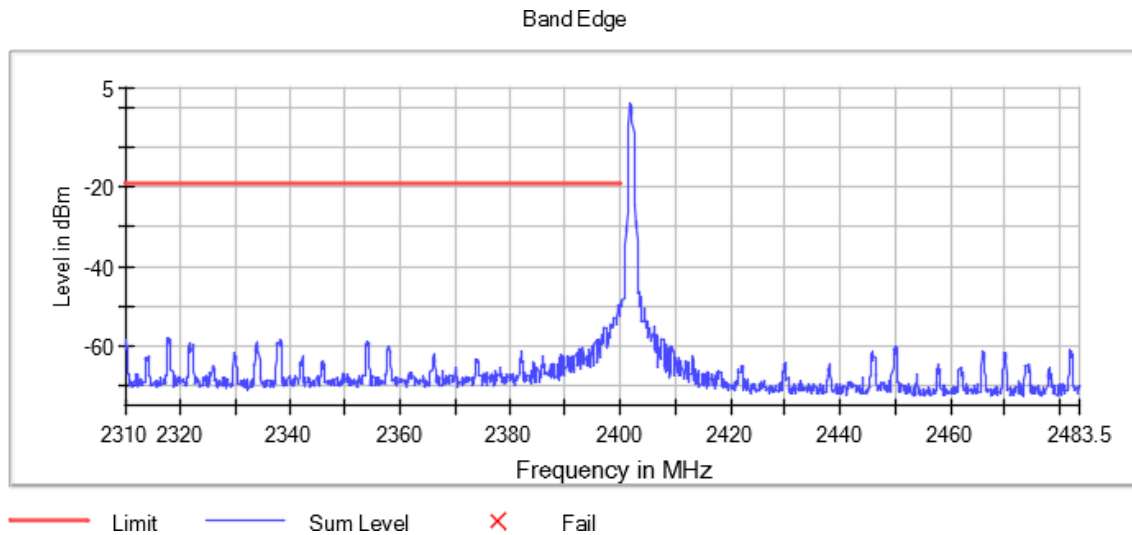
Attachments

Operation Band MHz = [2400, 2483.5] Equipment Type = Digital Transmission System (DTS)

Frequency MHz = 2402.00000 Active Port = 1

Modulation = BTLE (GFSK 1 Mbit/s)

Images:



Tables:

Spectrum Analyzer Parameters 1

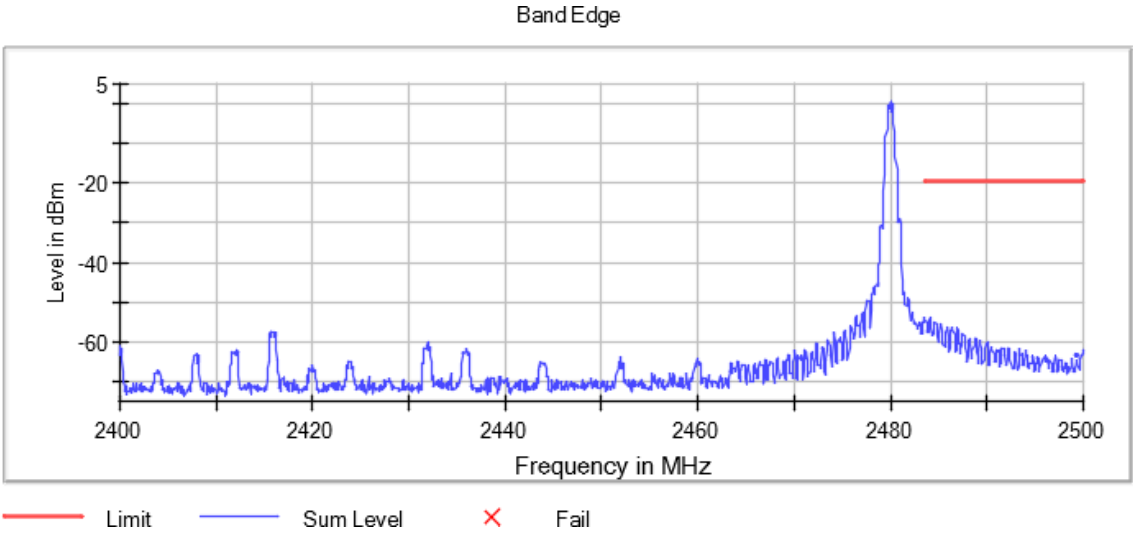
Setting	Instrument Value	Target Value
Start Frequency	2.31000 GHz	2.31000 GHz
Stop Frequency	2.40000 GHz	2.40000 GHz
Span	90.000 MHz	90.000 MHz
RBW	100.000 kHz	<= 100.000 kHz
VBW	300.000 kHz	>= 300.000 kHz
SweepPoints	1800	~ 1800
SweepTime	1.800 ms	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	10.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	13 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.00 dB	0.50 dB

Spectrum Analyzer Parameters 2

Setting	Instrument Value	Target Value
Start Frequency	2.40000 GHz	2.40000 GHz
Stop Frequency	2.48350 GHz	2.48350 GHz
Span	83.500 MHz	83.500 MHz
RBW	100.000 kHz	<= 100.000 kHz
VBW	300.000 kHz	>= 300.000 kHz
SweepPoints	1670	~ 1670
Sweptime	1.670 ms	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	10.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamplifier	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	7 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.20 dB	0.50 dB

Operation Band MHz = [2400, 2483.5] Equipment Type = Digital Transmission System (DTS)
Frequency MHz = 2480.00000 Active Port = 1
Modulation = BTLE (GFSK 1 Mbit/s)

Images:



Tables:

Spectrum Analyzer Parameters 1

Setting	Instrument Value	Target Value
Start Frequency	2.31000 GHz	2.31000 GHz
Stop Frequency	2.40000 GHz	2.40000 GHz
Span	90.000 MHz	90.000 MHz
RBW	100.000 kHz	<= 100.000 kHz
VBW	300.000 kHz	>= 300.000 kHz
SweepPoints	1800	~ 1800
SweepTime	1.800 ms	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	10.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	13 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.00 dB	0.50 dB

Spectrum Analyzer Parameters 2

Setting	Instrument Value	Target Value
Start Frequency	2.40000 GHz	2.40000 GHz
Stop Frequency	2.48350 GHz	2.48350 GHz
Span	83.500 MHz	83.500 MHz
RBW	100.000 kHz	<= 100.000 kHz
VBW	300.000 kHz	>= 300.000 kHz
SweepPoints	1670	~ 1670
Sweptime	1.670 ms	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	10.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamplifier	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	7 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.20 dB	0.50 dB

Modulation: BTLE (GFSK 2 Mbit/s)

Results

Operation Band (MHz)	Equipment	Freq (MHz)	Port	Inband Peak Lvl (dBm)	Freq (MHz)	Lvl (dBm)
[2400, 2483.5]	Digital Transmission System (DTS)	2402.00000	1	0.900	2399.949972	-30.1
				0.900	2400.000000	-31.3
				0.900	2399.899944	-31.8
				0.900	2399.849917	-35.2
				0.900	2399.799889	-37.5
				0.900	2399.749861	-38.4
				0.900	2399.699833	-41.3
				0.900	2399.649805	-43.3
				0.900	2399.599778	-45.1
				0.900	2399.549750	-48.2
				0.900	2399.249583	-48.3
				0.900	2399.199555	-48.5
				0.900	2399.049472	-49.3
				0.900	2399.099500	-49.4
				0.900	2399.499722	-49.6
		2480.00000		0.600	2484.151976	-53.1
				0.600	2484.202128	-53.2
				0.600	2483.550152	-53.8
				0.600	2484.252280	-54.0
				0.600	2483.650456	-54.1
				0.600	2483.901216	-54.2
				0.600	2483.600304	-54.4
				0.600	2483.951368	-54.6
				0.600	2483.750760	-54.6
				0.600	2483.700608	-54.6
				0.600	2484.101824	-54.7
				0.600	2483.851064	-54.7
				0.600	2484.302432	-54.8
				0.600	2484.352584	-55.0
				0.600	2484.553191	-55.5

Verdict

Pass

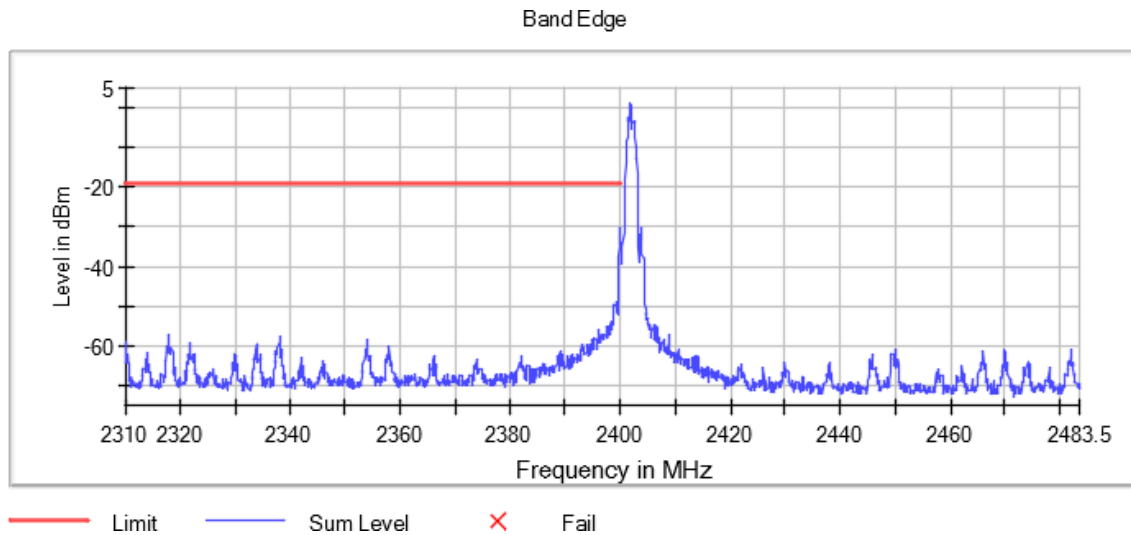
Attachments

Operation Band MHz = [2400, 2483.5] Equipment Type = Digital Transmission System (DTS)

Frequency MHz = 2402.00000 Active Port = 1

Modulation = BTLE (GFSK 2 Mbit/s)

Images:



Tables:

Spectrum Analyzer Parameters 1

Setting	Instrument Value	Target Value
Start Frequency	2.31000 GHz	2.31000 GHz
Stop Frequency	2.40000 GHz	2.40000 GHz
Span	90.000 MHz	90.000 MHz
RBW	100.000 kHz	<= 100.000 kHz
VBW	300.000 kHz	>= 300.000 kHz
SweepPoints	1800	~ 1800
SweepTime	1.800 ms	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	10.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamplifier	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	10 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.29 dB	0.50 dB

Spectrum Analyzer Parameters 2

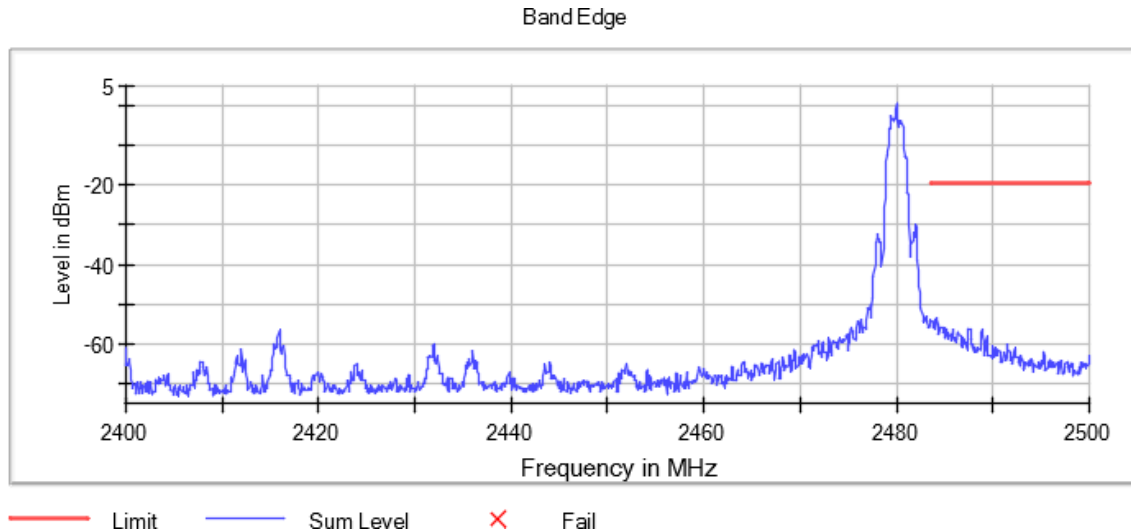
Setting	Instrument Value	Target Value
Start Frequency	2.40000 GHz	2.40000 GHz
Stop Frequency	2.48350 GHz	2.48350 GHz
Span	83.500 MHz	83.500 MHz
RBW	100.000 kHz	<= 100.000 kHz
VBW	300.000 kHz	>= 300.000 kHz
SweepPoints	1670	~ 1670
Sweeptime	1.670 ms	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	10.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamplifier	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	13 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.25 dB	0.50 dB

Operation Band MHz = [2400, 2483.5] Equipment Type = Digital Transmission System (DTS)

Frequency MHz = 2480.00000 Active Port = 1

Modulation = BTLE (GFSK 2 Mbit/s)

Images:



Tables:

Spectrum Analyzer Parameters 1

Setting	Instrument Value	Target Value
Start Frequency	2.31000 GHz	2.31000 GHz
Stop Frequency	2.40000 GHz	2.40000 GHz
Span	90.000 MHz	90.000 MHz
RBW	100.000 kHz	<= 100.000 kHz
VBW	300.000 kHz	>= 300.000 kHz
SweepPoints	1800	~ 1800
SweepTime	1.800 ms	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	10.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	10 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.29 dB	0.50 dB

Spectrum Analyzer Parameters 2

Setting	Instrument Value	Target Value
Start Frequency	2.40000 GHz	2.40000 GHz
Stop Frequency	2.48350 GHz	2.48350 GHz
Span	83.500 MHz	83.500 MHz
RBW	100.000 kHz	<= 100.000 kHz
VBW	300.000 kHz	>= 300.000 kHz
SweepPoints	1670	~ 1670
Sweptime	1.670 ms	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	10.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamplifier	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	13 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.25 dB	0.50 dB

RSS-247 / FCC 15.247 - [RSE] Emission limitations radiated (Transmitter)

Limits

USA FCC Part 15.247 (01-26-2026):

FCC Rules and Regulations 47 CFR Part 15, Subpart C, Secs. 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 Secs. 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Secs. 15.205(a), must also comply with the radiated emission limits specified in Secs. 15.209(a) (see Secs. 15.205(c)).

FCC Rules and Regulations 47 CFR Part 15, Subpart C, Secs. 15.209:

(a) the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table.

Frequency Range (MHz)	Field strength (μV/m)	Field strength (dBμV/m)	Measurement distance (m)
0.009-0.490	2400/F(kHz)	-	300
0.490-1.705	24000/F(kHz)	-	30
1.705 - 30.0	30	-	30
30 - 88	100 ⁽¹⁾	40	3
88 - 216	150 ⁽¹⁾	43.5	3
216 - 960	200 ⁽¹⁾	46	3
Above 960	500	54	3

Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54–72 MHz, 76–88 MHz, 174–216 MHz or 470–806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., Secs. 15.231 and 15.241

(d) The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.

(f) In accordance with Secs. 15.33(a), in some cases the emissions from an intentional radiator must be measured to beyond the tenth harmonic of the highest fundamental frequency designed to be emitted by the intentional radiator because of the incorporation of a digital device. If measurements above the tenth harmonic are so required, the radiated emissions above the tenth harmonic shall comply with the general radiated emission limits applicable to the incorporated digital device, as shown in Secs. 15.109 and as based on the frequency of the emission being measured, or, except for emissions contained in the restricted frequency bands shown in Secs. 15.205, the limit on spurious emissions specified for the intentional radiator, whichever is the higher limit. Emissions which must be measured above the tenth harmonic of the highest fundamental frequency designed to be emitted by the intentional radiator and which fall within the restricted bands shall comply with the general radiated emission limits in Secs. 15.109 that are applicable to the incorporated digital device.

FCC Rules and Regulations 47 CFR Part 15, Subpart B, Secs. 15.109:

(g) As an alternative to the radiated emission limits shown in paragraphs (a) and (b) of this section, digital devices may be shown to comply with the standards contained in the Third Edition of the International Special Committee on Radio Interference (CISPR), Pub. 22, "Information Technology Equipment—Radio Disturbance Characteristics—Limits and Methods of Measurement" (incorporated by reference, see § 15.38). In addition:

(2) If, in accordance with § 15.33 of this part, measurements must be performed above 1000 MHz, compliance above 1000 MHz shall be demonstrated with the emission limit in paragraph (a) or (b) of this section, as appropriate. Measurements above 1000 MHz may be performed at the distance specified in the CISPR 22 publications for measurements below 1000 MHz provided the limits in paragraphs (a) and (b) of this section are extrapolated to the

new measurement distance using an inverse linear distance extrapolation factor (20 dB/decade), e.g., the radiated limit above 1000 MHz for a Class B digital device is 150 $\mu\text{V/m}$, as measured at a distance of 10 meters.

Frequency range (MHz)	Class A limits		Class B limits	
	AVG Limit for 3 m ⁽¹⁾ (dB $\mu\text{V/m}$)	PK Limit for 3 m ^(1,2) (dB $\mu\text{V/m}$)	AVG Limit for 3 m ⁽¹⁾ (dB $\mu\text{V/m}$)	PK Limit for 3 m ^(1,2) (dB $\mu\text{V/m}$)
1000 - 3000	60	80	54	74
3000 - 6000	60	80	54	74
6000 - 40000 ⁽³⁾	60	80	54	74

- Limits are specified by FCC at a distance of 10m and extrapolated here for 3m by adding inverse linear distance (1/d) proportionality factor of 20dB/decade, used per §15.31(f)(1)
- Frequencies above 1 GHz, the limit on peak radio frequency emissions is 20 dB above the maximum permitted average emission limit applicable to the equipment under test, as per §15.35(b)
- According with the CISPR 22 (third Edition) There are no limits in the frequency range of 6 - 40 GHz, so expand the frequency range beyond 6GHz using the same limits.

FCC Rules and Regulations 47 CFR Part 15, Subpart C, Secs. 15.205:

(2) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

(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	2690-2900	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			

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

² Above 38.6

CANADA RSS-247 Issue 4 (July 2025):

2.4 RSS-Gen compliance

Equipment being certified under this standard shall also comply with the general requirements set out in Radio Standards Specification RSS-Gen, General Requirements for Compliance of Radio Apparatus. Where contradictions exist between this standard and RSS-Gen, this standard shall take precedence.

CANADA RSS-Gen Issue 5 (April 2018):

8.9 Transmitter emission limits:

Except where otherwise indicated in the applicable RSS, radiated emissions shall comply with the field strength limits shown in table 5 and table 6. Additionally, the level of any transmitter unwanted emission shall not exceed the level of the transmitter's fundamental emission.

General field strength limits at frequencies above 30 MHz

Frequency Range (MHz)	Field strength (µV/m)	Field strength (dBµV/m)	Measurement distance (m)
30 - 88	100	40	3
88 - 216	150	43.5	3
216 - 960	200	46	3
Above 960	500	54	3

General field strength limits at frequencies below 30 MHz

Frequency Range (MHz)	Field strength (µA/m)	Field strength (dBµA/m)	Measurement distance (m)
0.009-0.490 ⁽¹⁾	6.37/F(kHz)	-	300
0.490-1.705	63.7/F(kHz)	-	30
1.705 - 30.0	0.08	-	30

- The emission limits for the ranges 9-90 kHz and 110-490 kHz are based on measurements employing a linear average detector.

RSS-Gen Issue 5, Secs 8.10:

Restricted frequency bands, identified in table 7, are designated primarily for safety-of-life services (distress calling and certain aeronautical activities), certain satellite downlinks, radio astronomy and some government use.

- c) Unwanted emissions that do not fall within the restricted frequency bands listed in table 7 shall comply either with the limits specified in the applicable RSS or with those specified in table 5 and table 6.

Table 7 – Restricted frequency bands

(MHz)	(MHz)	(MHz)	(GHz)
0.090-0.110	16.42-16.423	1435-1626.5	13.25-13.4
0.495-0.505	16.69475-16.69525	1645.5-1646.5	14.47-14.5
2.1735-2.1905	16.80425-16.80475	1660-1710	15.35-16.2
3.020 - 3.026	25.5-25.67	1718.8-1722.2	17.7-21.4
4.125-4.128	37.5-38.25	2200-2300	22.01-23.12
4.17725-4.17775	73-74.6	2310-2390	23.6-24.0
4.20725-4.20775	74.8-75.2	2483.5-2500	31.2-31.8
5.677 - 5.683	108-121.94	2655-2900	36.43-36.5
6.215-6.218	123-138	3260-3267	Above 38.6
6.26775-6.26825	149.9-150.05	3332-3339	
6.31175-6.31225	156.52475-156.52525	3345.8-3358	
8.291-8.294	156.7-156.9	3500-4400	
8.362-8.366	162.0125-167.17	4.5-5.15	
8.37625-8.38675	167.72-173.2	5.35-5.46	
8.41425-8.41475	240-285	7.25-7.75	
12.29-12.293	322-335.4	8.025-8.5	
12.51975-12.52025	399.9-410	9.0-9.2	
12.57675-12.57725	608-614	9.3-9.5	
13.36-13.41	960-1427	10.6-12.7	

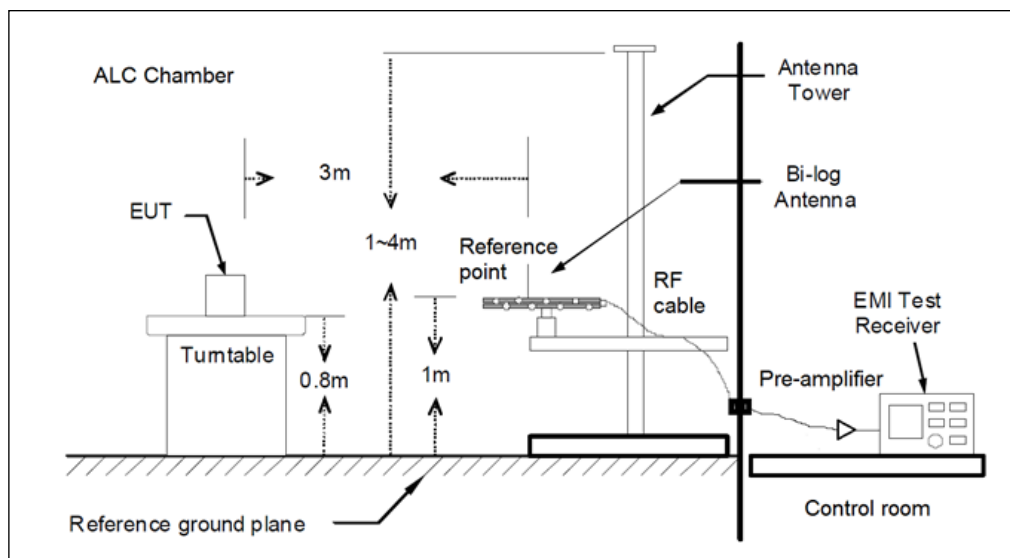
TEST SETUP:

All radiated tests were performed in a semi-anechoic chamber. The measurement antenna is situated at 3 m for the frequency ranges 30-1000 MHz (Bilog antenna) and 1-18 GHz (Double ridge horn antennas) and 1m for the frequency range 18 GHz- 26 GHz Double ridge horn antenna.

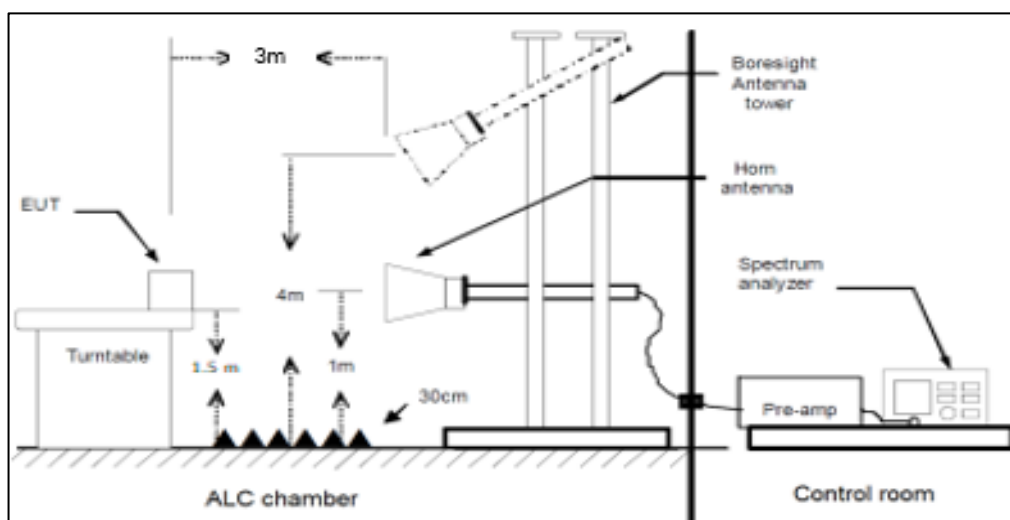
The equipment under test was set up on a non-conductive platform above the ground plane and the situation and orientation was varied to find the maximum radiated emission. It was also rotated 360° and the antenna height was varied from 1 to 4 meters to find the maximum radiated emission.

Measurements were made in both horizontal and vertical planes of polarization.

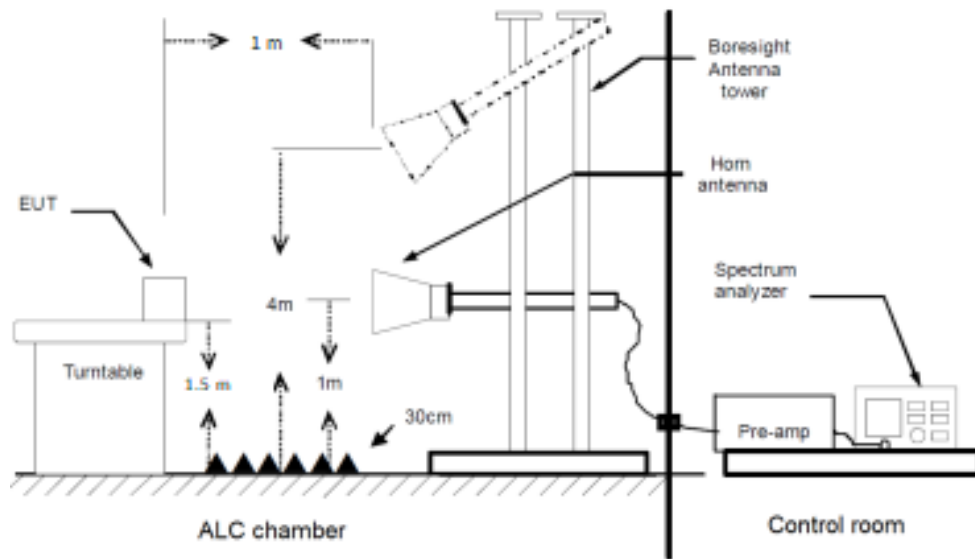
The field strength is calculated by adding correction factor to the measured level from the spectrum analyzer. This correction factor includes antenna factor, cable loss and pre-amplifiers gain.



Radiated measurements Setup $f < 1$ GHz



Radiated measurements setup $1 < f < 18$ GHz



Radiated measurements setup $f \geq 18$ GHz

TEST RESULTS:

Frequency range 9KHz – 30 MHz

No radiofrequency signal generated in the device found below 10⁹ sub-harmonic, no further investigation required.

Frequency range 30 MHz – 1000 MHz

The spurious emissions below 1 GHz do not depend on the operating channel selected in the EUT.

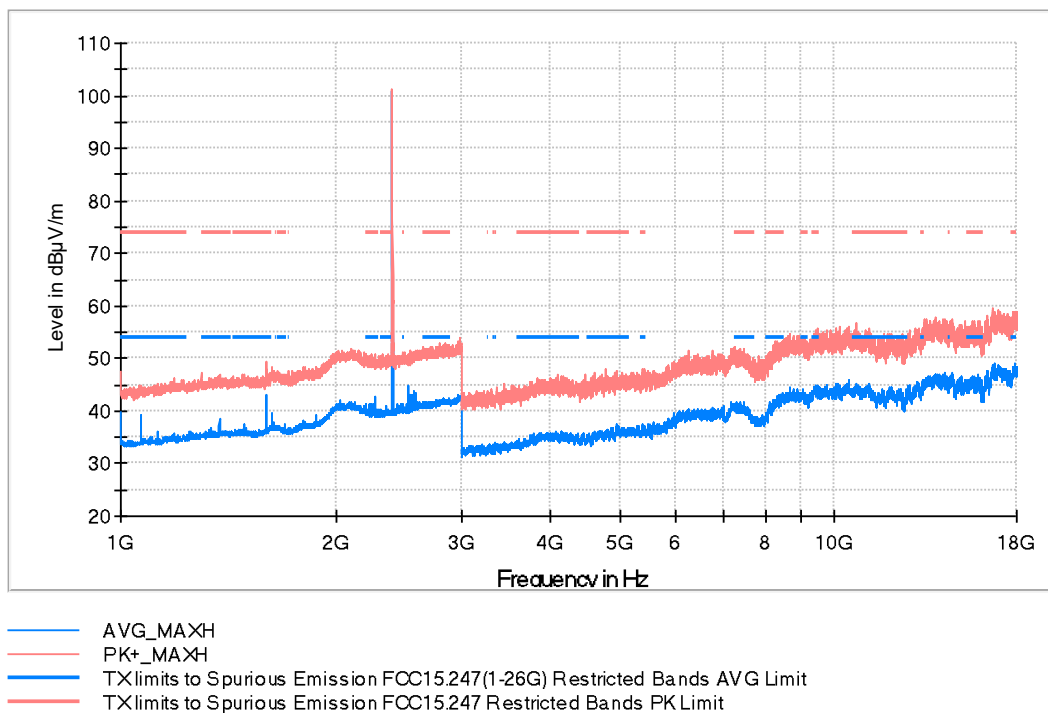
Frequency range 1 GHz – 18 GHz

Operation Band MHz = [2400, 2483.5] Equipment Type = Digital Transmission System (DTS)

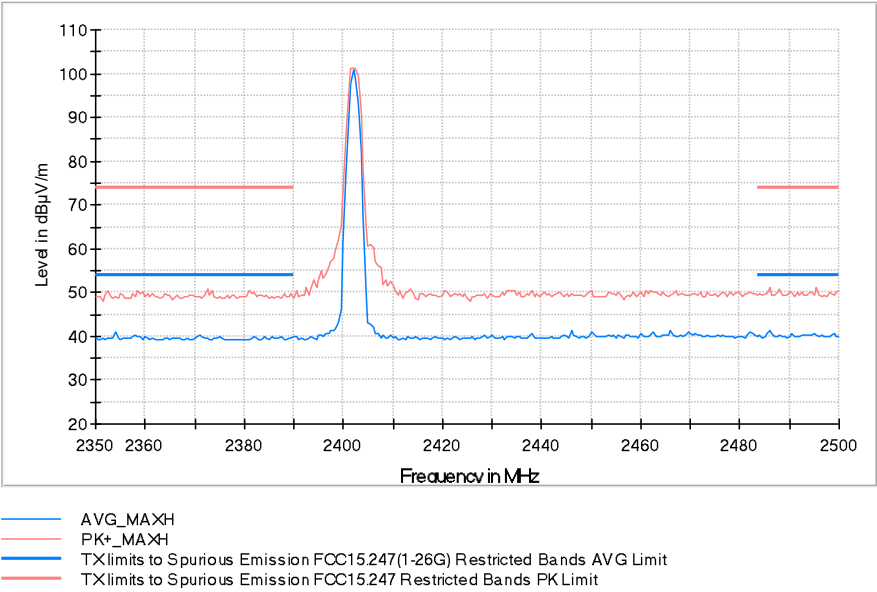
Frequency MHz = 2402.00000 Active Port = 1

Modulation = BTLE (GFSK 1 Mbit/s)

RF_FCC_15.247_E Field_1GHz_18GHz_HPF(SAC2)



Copy of RF_FCC_15.247_E Field_1GHz_18GHz_HPF(SAC2)



Limit and Margin

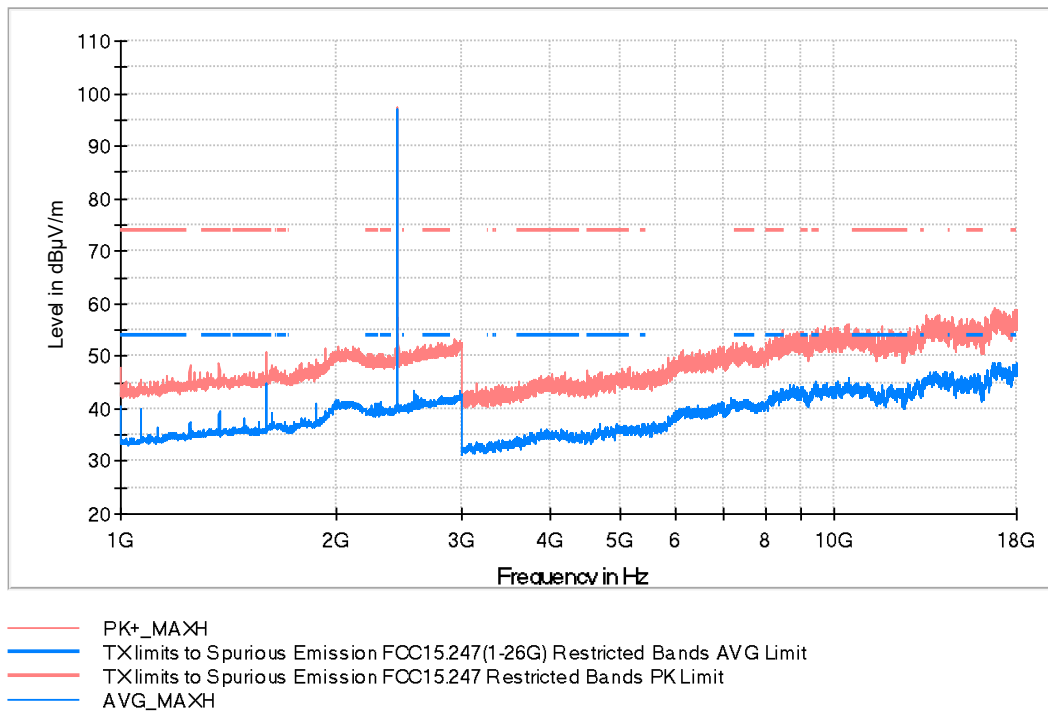
Frequency (MHz)	PK+_MAXH (dBµV/m)	AVG_MAXH (dBµV/m)	Pol	Margin - AVG (dB)	Limit - AVG (dBµV/m)	Comment
2402.500000	101.4	99.2	V	---	---	Fundamental
4086.500000	46.5	35.1	V	18.9	54.0	
11806.000000	52.3	41.1	V	12.9	54.0	

Operation Band MHz = [2400, 2483.5] Equipment Type = Digital Transmission System (DTS)

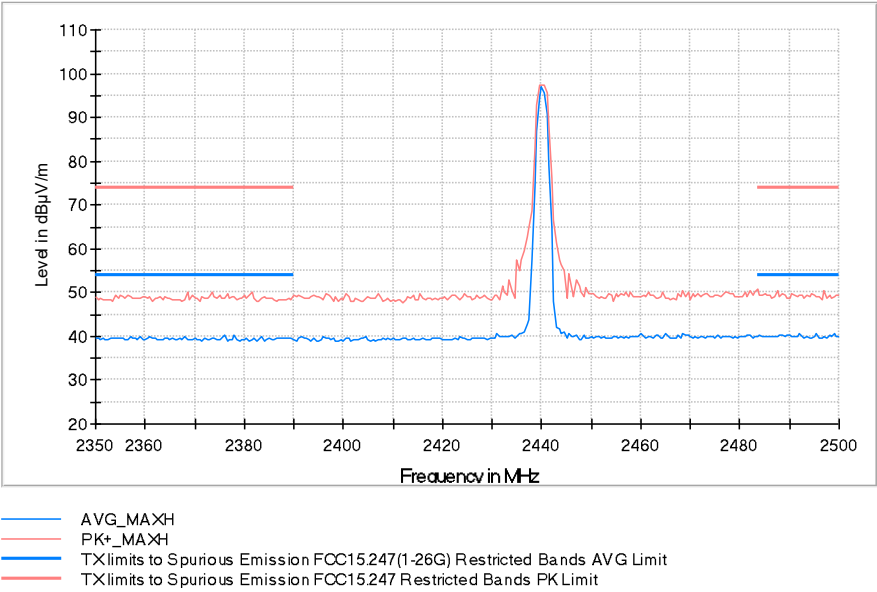
Frequency MHz = 2440.00000 Active Port = 1

Modulation = BTLE (GFSK 1 Mbit/s)

RF_FCC_15.247_E Field_1GHz_18GHz_HPF(SAC2)



Copy of RF_FCC_15.247_E Field_1GHz_18GHz_HPF(SAC2)



Limit and Margin

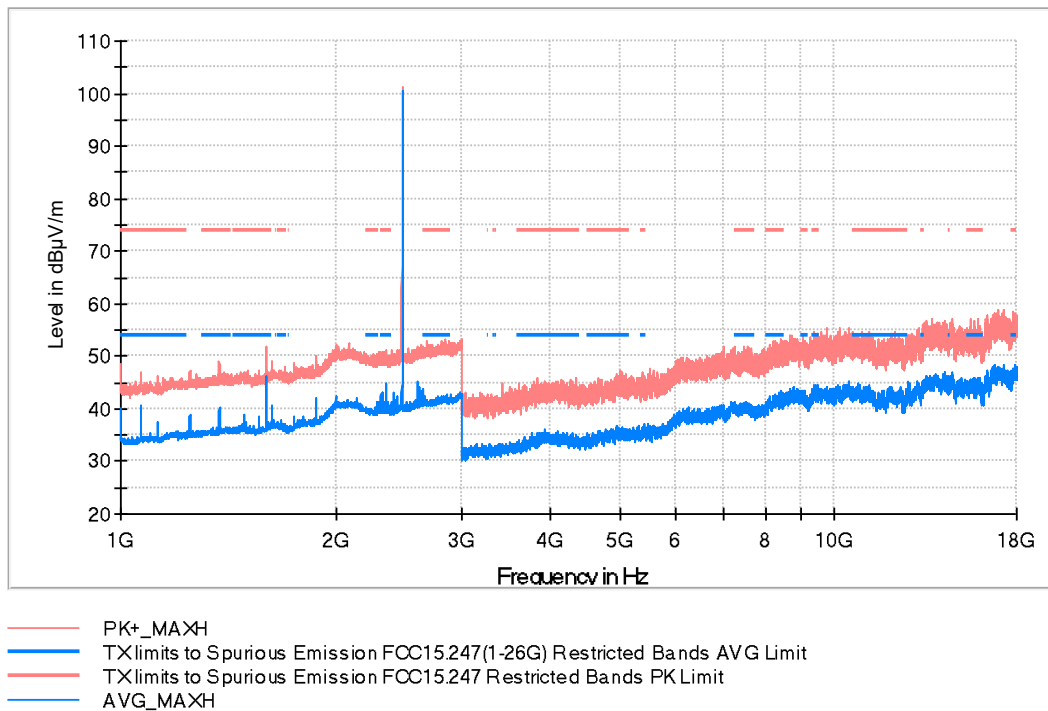
Frequency (MHz)	PK+_MAXH (dBµV/m)	AVG_MAXH (dBµV/m)	Pol	Margin - AVG (dB)	Limit - AVG (dBµV/m)	Comment
1066.500000	45.3	40.1	H	8.7	54.0	
2440.000000	97.4	96.9	V	---	---	Fundamental
12006.000000	53.4	43.6	V	0.6	54.0	

Operation Band MHz = [2400, 2483.5] Equipment Type = Digital Transmission System (DTS)

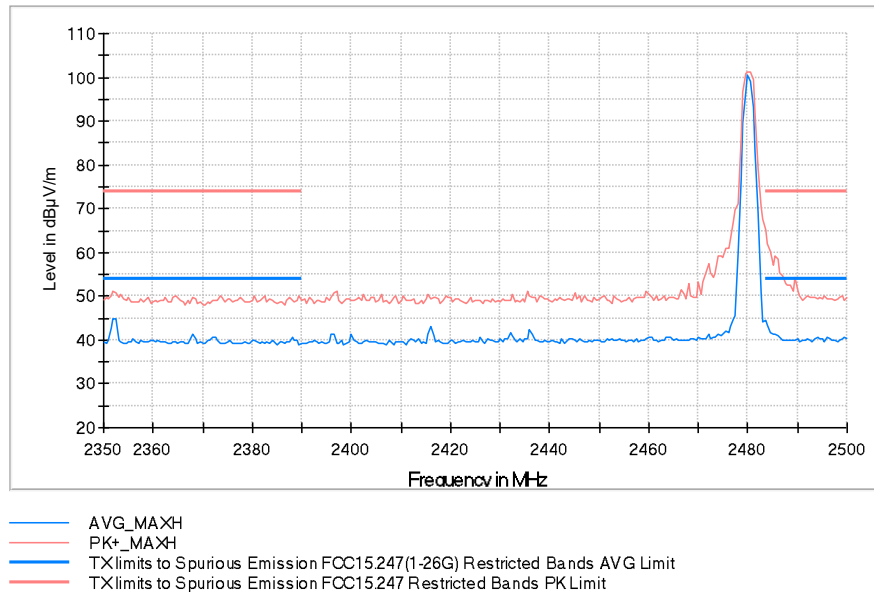
Frequency MHz = 2480.00000 Active Port = 1

Modulation = BTLE (GFSK 1 Mbit/s)

RF_FCC_15.247_E Field_1GHz_18GHz_HPF(SAC2)



Copy of RF_FCC_15.247_E Field_1GHz_18GHz_HPF(SAC2)



Limit and Margin

Frequency (MHz)	PK+_MAXH (dBμV/m)	AVG_MAXH (dBμV/m)	Pol	Margin - AVG (dB)	Limit - AVG (dBμV/m)	Comment
1074.000000	44.4	34.1	V	9.6	54.0	
2480.000000	101.2	100.7	V	---	---	Fundamental
3923.500000	44.7	34.6	V	9.3	54.0	

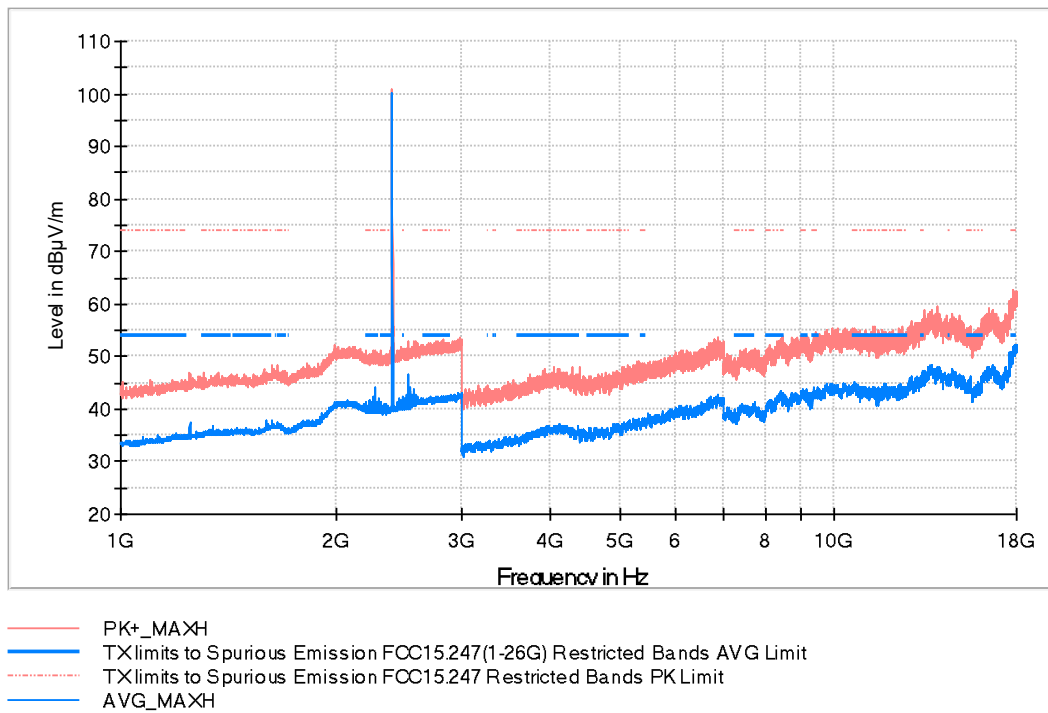
Frequency range 1 GHz – 18 GHz

Operation Band MHz = [2400, 2483.5] Equipment Type = Digital Transmission System (DTS)

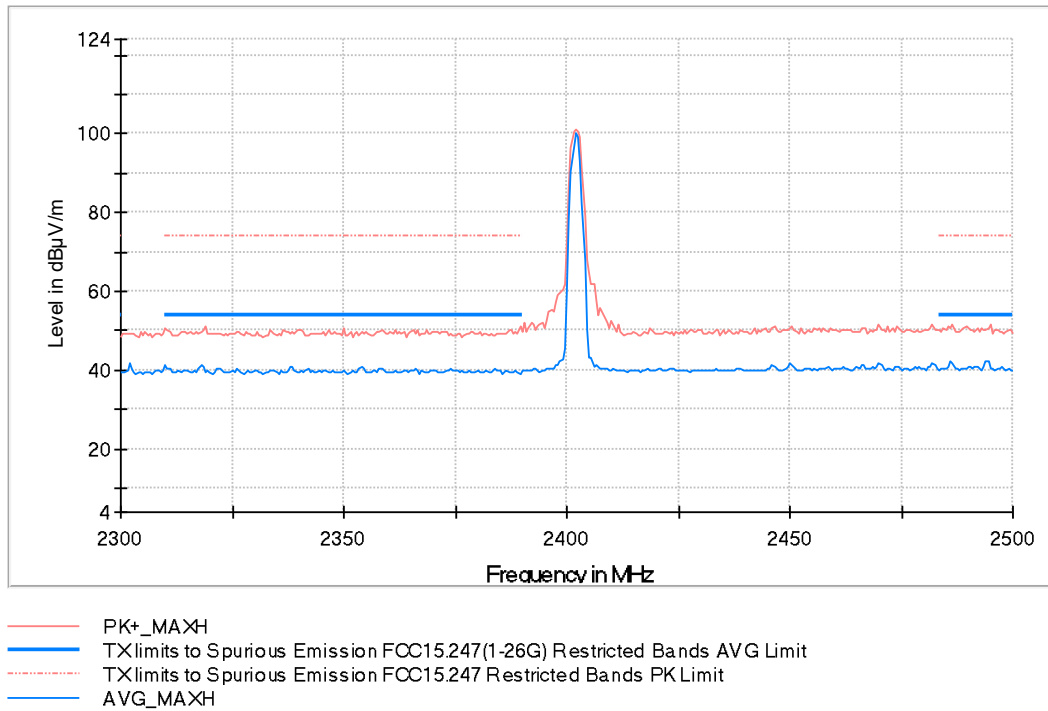
Frequency MHz = 2402.00000 Active Port = 1

Modulation = BTLE (GFSK 2 Mbit/s)

RF_FCC_15.247_E Field_1GHz_18GHz_HPF(SAC2)



RF_FCC_15.247_E Field_1GHz_18GHz_HPF(SAC2)



Limit and Margin

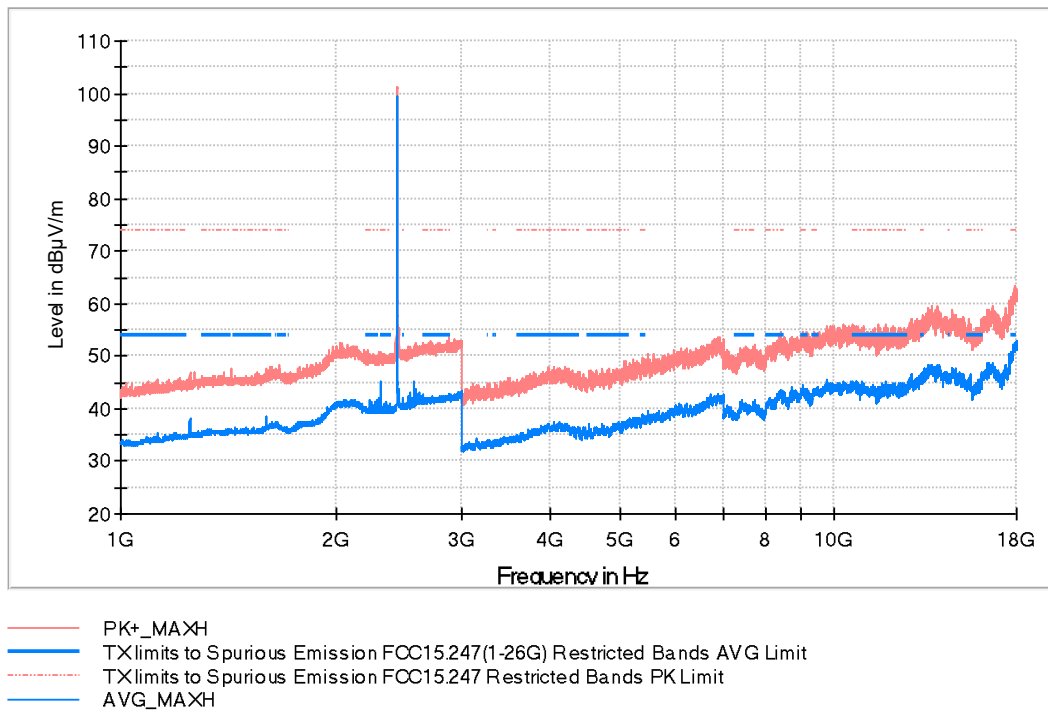
Frequency (MHz)	PK+_MAXH (dBμV/m)	AVG_MAXH (dBμV/m)	Pol	Margin - AVG (dB)	Limit - AVG (dBμV/m)	Comment
2402.500000	100.9	99.0	V	---	---	Fundamental
2776.000000	51.2	42.0	V	12.0	54.0	
7609.000000	50.2	39.7	H	14.3	54.0	

Operation Band MHz = [2400, 2483.5] Equipment Type = Digital Transmission System (DTS)

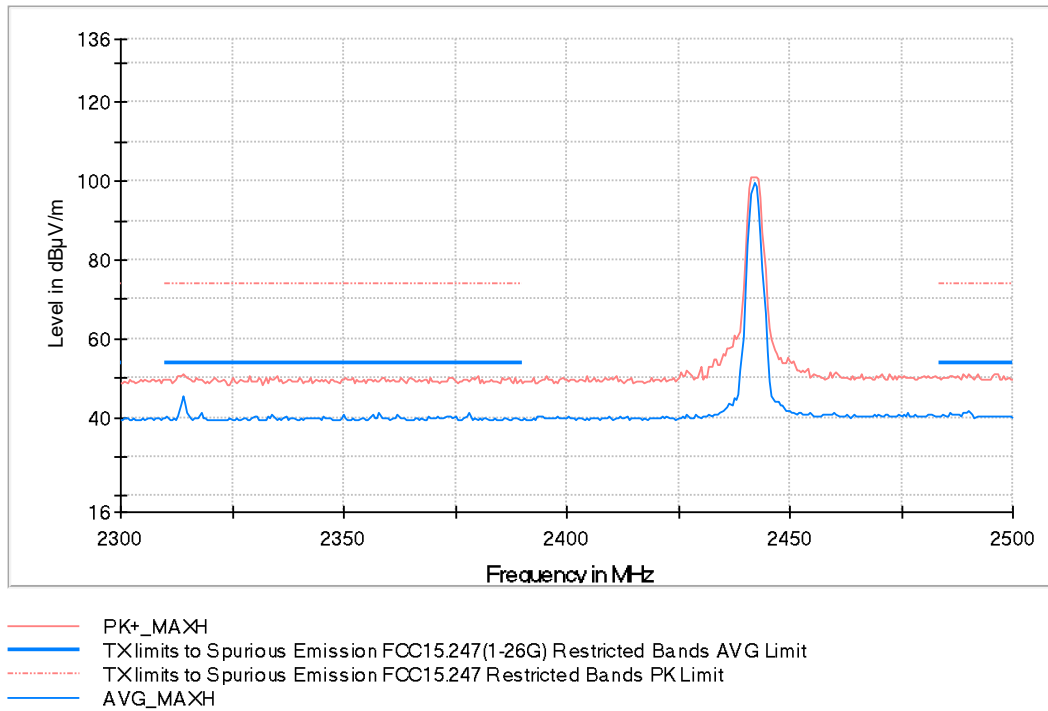
Frequency MHz = 2440.00000 Active Port = 1

Modulation = BTLE (GFSK 2 Mbit/s)

RF_FCC_15.247_E Field_1GHz_18GHz_HPF(SAC2)



RF_FCC_15.247_E Field_1GHz_18GHz_HPF(SAC2)



Limit and Margin

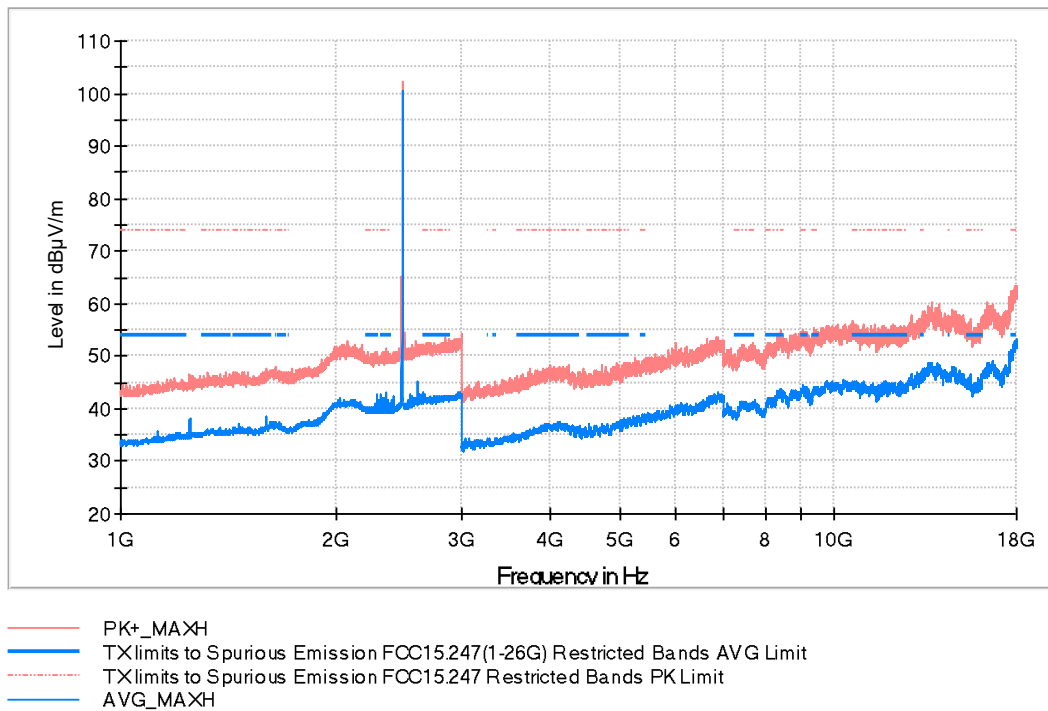
Frequency (MHz)	PK+_MAXH (dBµV/m)	AVG_MAXH (dBµV/m)	Pol	Margin - AVG (dB)	Limit - AVG (dBµV/m)	Comment
2314.000000	50.8	45.2	V	8.8	54.0	
2440.000000	100.9	99.5	V	---	---	Fundamental
5093.500000	49.0	37.0	H	17.0	54.0	

Operation Band MHz = [2400, 2483.5] Equipment Type = Digital Transmission System (DTS)

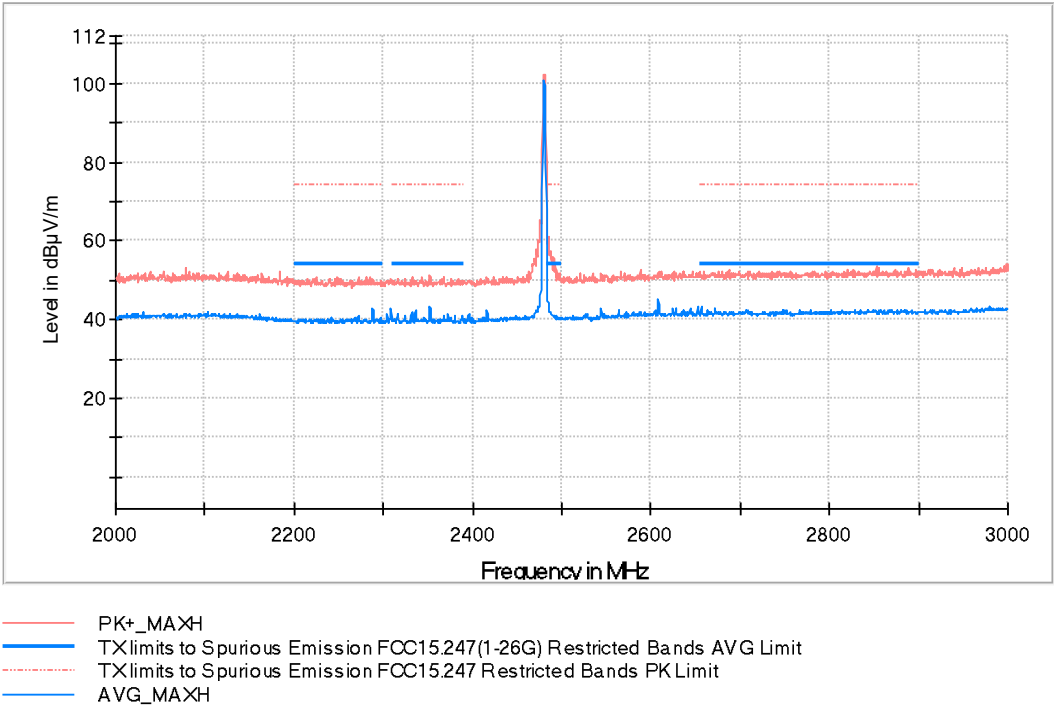
Frequency MHz = 2480.00000 Active Port = 1

Modulation = BTLE (GFSK 2 Mbit/s)

RF_FCC_15.247_E Field_1GHz_18GHz_HPF(SAC2)



RF_FCC_15.247_E Field_1GHz_18GHz_HPF(SAC2)

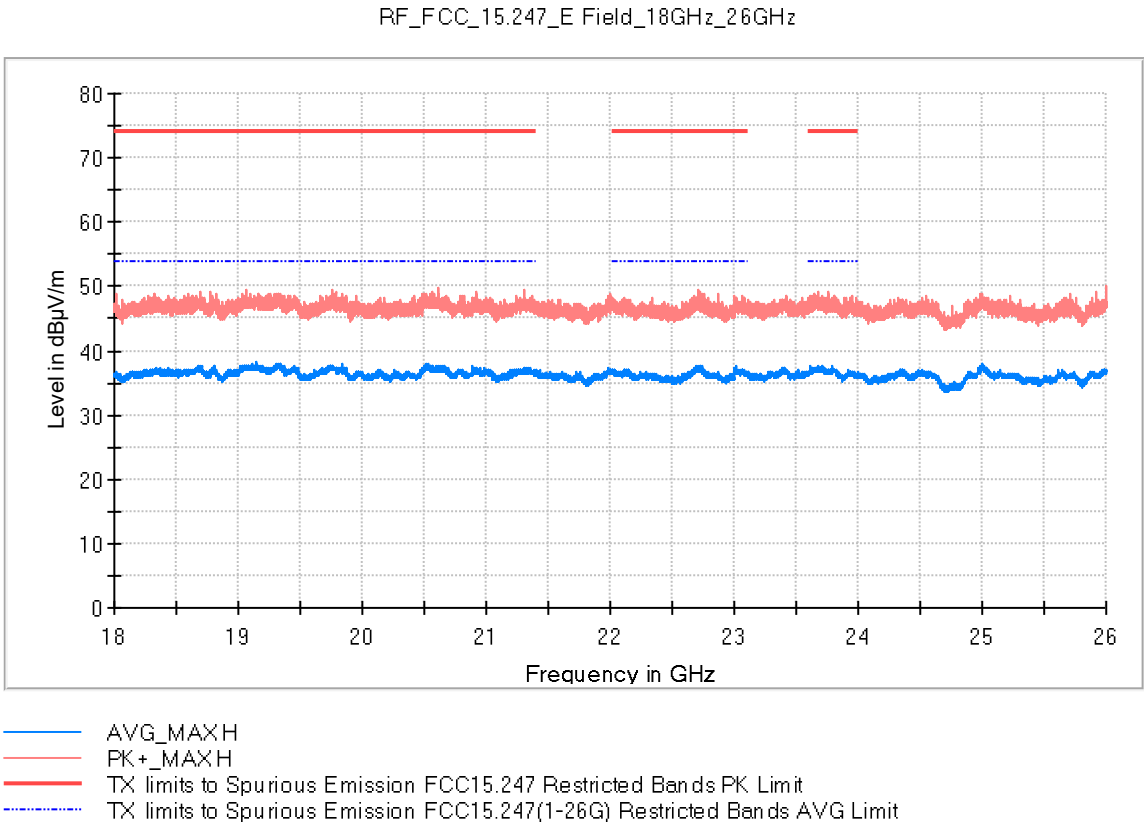


Limit and Margin

Frequency (MHz)	PK+_MAXH (dBµV/m)	AVG_MAXH (dBµV/m)	Pol	Margin - AVG (dB)	Limit - AVG (dBµV/m)	Comment
2480.000000	102.0	100.6	V	---	---	Fundamental
2814.500000	51.9	41.8	V	12.2	54.0	
5039.500000	45.9	37.4	H	16.6	54.0	

Frequency range 18 GHz – 26 GHz

Operation Band MHz = [2400, 2483.5] Equipment Type = Digital Transmission System (DTS)
Frequency MHz = 2402.00000 Active Port = 1
Modulation = BTLE (GFSK 2 Mbit/s)



Limit and Margin

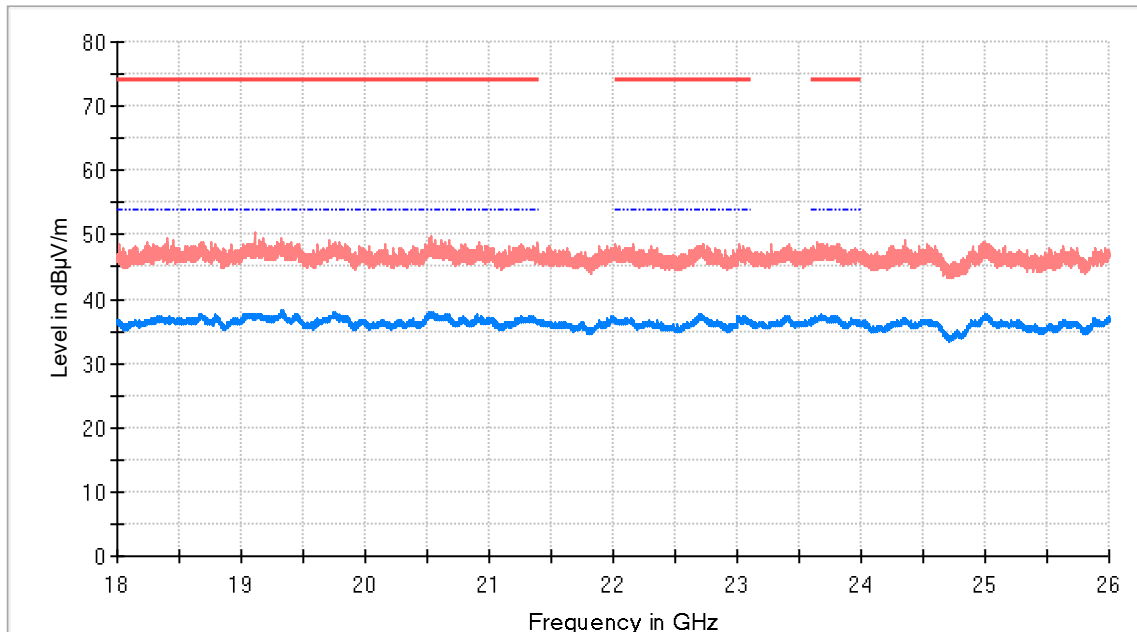
Frequency (MHz)	AVG_MAXH (dBμV/m)	Pol	Margin - AVG (dB)	Limit - AVG (dBμV/m)
19147.000000	38.2	V	15.8	54.0
21312.500000	37.0	H	17.0	54.0
22710.000000	37.5	V	16.5	54.0

Operation Band MHz = [2400, 2483.5] Equipment Type = Digital Transmission System (DTS)

Frequency MHz = 2440.00000 Active Port = 1

Modulation = BTLE (GFSK 2 Mbit/s)

RF_FCC_15.247_E Field_18GHz_26GHz



— AVG_MAXH
— PK+MAXH
— TX limits to Spurious Emission FCC15.247 Restricted Bands PK Limit
- - TX limits to Spurious Emission FCC15.247(1-26G) Restricted Bands AVG Limit

Limit and Margin

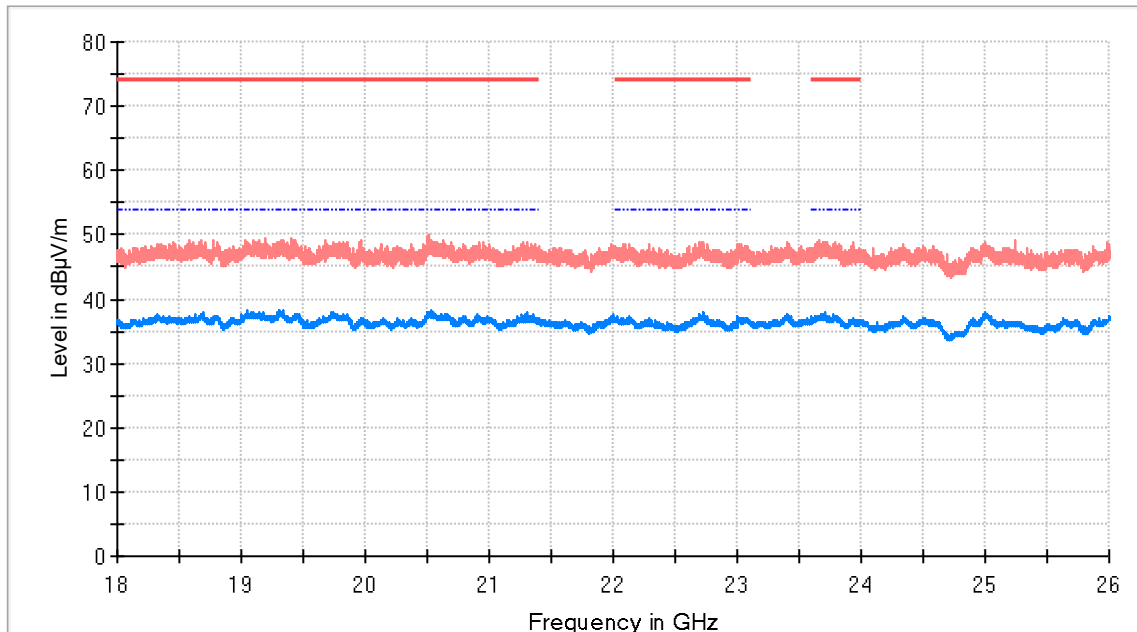
Frequency (MHz)	AVG_MAXH (dBµV/m)	PoI	Margin - AVG (dB)	Limit - AVG (dBµV/m)
19336.500000	38.3	H	15.7	54.0
20565.500000	37.1	H	16.9	54.0
23797.500000	36.8	H	17.2	54.0

Operation Band MHz = [2400, 2483.5] Equipment Type = Digital Transmission System (DTS)

Frequency MHz = 2480.00000 Active Port = 1

Modulation = BTLE (GFSK 2 Mbit/s)

RF_FCC_15.247_E Field_18GHz_26GHz



— AVG_MAXH
— PK+_MAXH
— TX limits to Spurious Emission FCC15.247 Restricted Bands PK Limit
— TX limits to Spurious Emission FCC15.247(1-26G) Restricted Bands AVG Limit

Frequency (MHz)	AVG_MAXH (dBµV/m)	Pol	Margin - AVG (dB)	Limit - AVG (dBµV/m)
19309.500000	37.5	V	16.5	54.0
20538.000000	38.4	V	15.6	54.0
22724.000000	37.5	V	16.5	54.0

Radiated emission electromagnetic field

(30MHz – 1GHz)

Pre-Scan Spectrum Analyzer Parameters

Subrange	Preamp	Detectors	Bandwidth
30 MHz - 1 GHz	20 dB	PK+	100 kHz

Final Scan Spectrum Analyzer Parameters

Subrange	Preamp	Detectors	Bandwidth
30 MHz - 1 GHz	20 dB	QPK, PK+	120 kHz

(1GHz – 18GHz)

Pre-Scan Spectrum Analyzer Parameters

Subrange	Preamp	Detectors	Bandwidth
1 GHz - 18 GHz	20 dB	PK+ ; AVG	1 MHz

(18GHz – 26GHz)

Pre-Scan Spectrum Analyzer Parameters

Subrange	Preamp	Detectors	Bandwidth
18 GHz - 26 GHz	20 dB	PK+ ; AVG	1 MHz