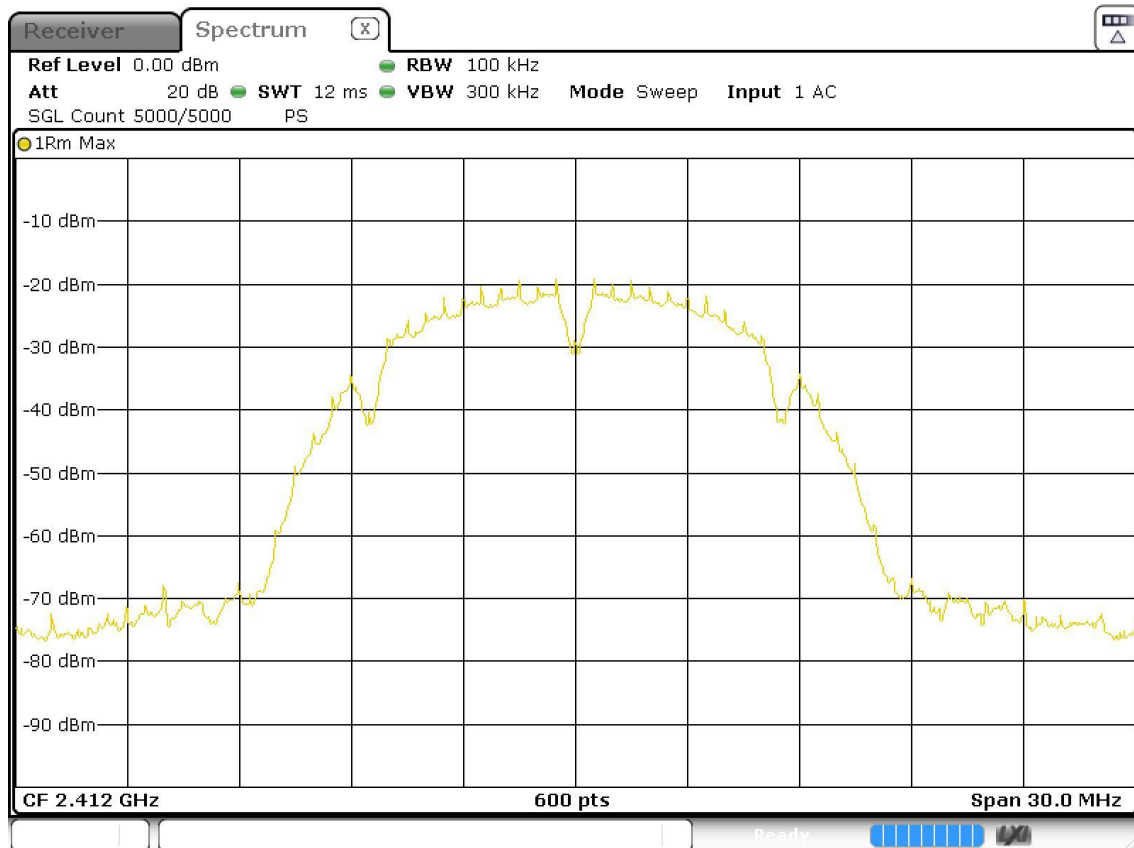
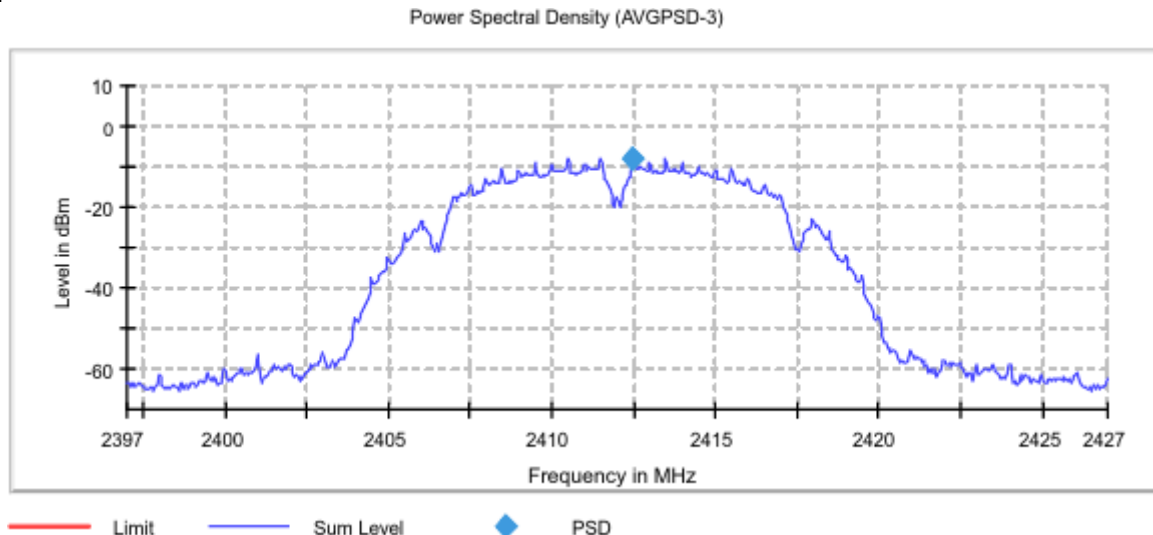


Attachments

Operation Band MHz = [2400, 2483.5] Equipment Type = Digital Transmission System (DTS)
Frequency MHz = 2412.00000 Active Port = 1
Modulation = 802.11b (DSSS 1 Mbit/s)

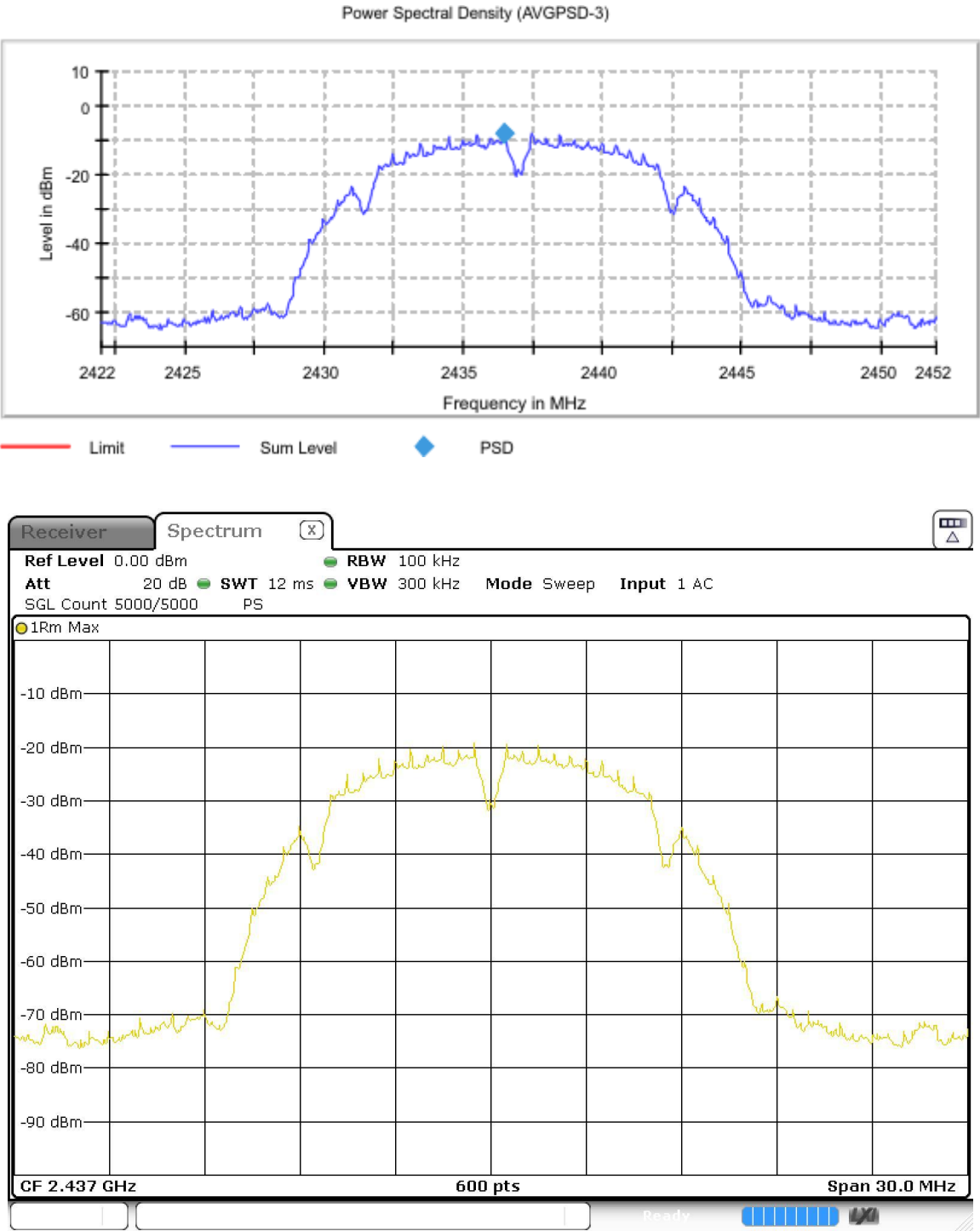
Images:



Date: 25.MAR.2026 13:48:21

Operation Band MHz = [2400, 2483.5] Equipment Type = Digital Transmission System (DTS)
Frequency MHz = 2437.00000 Active Port = 1
Modulation = 802.11b (DSSS 1 Mbit/s)

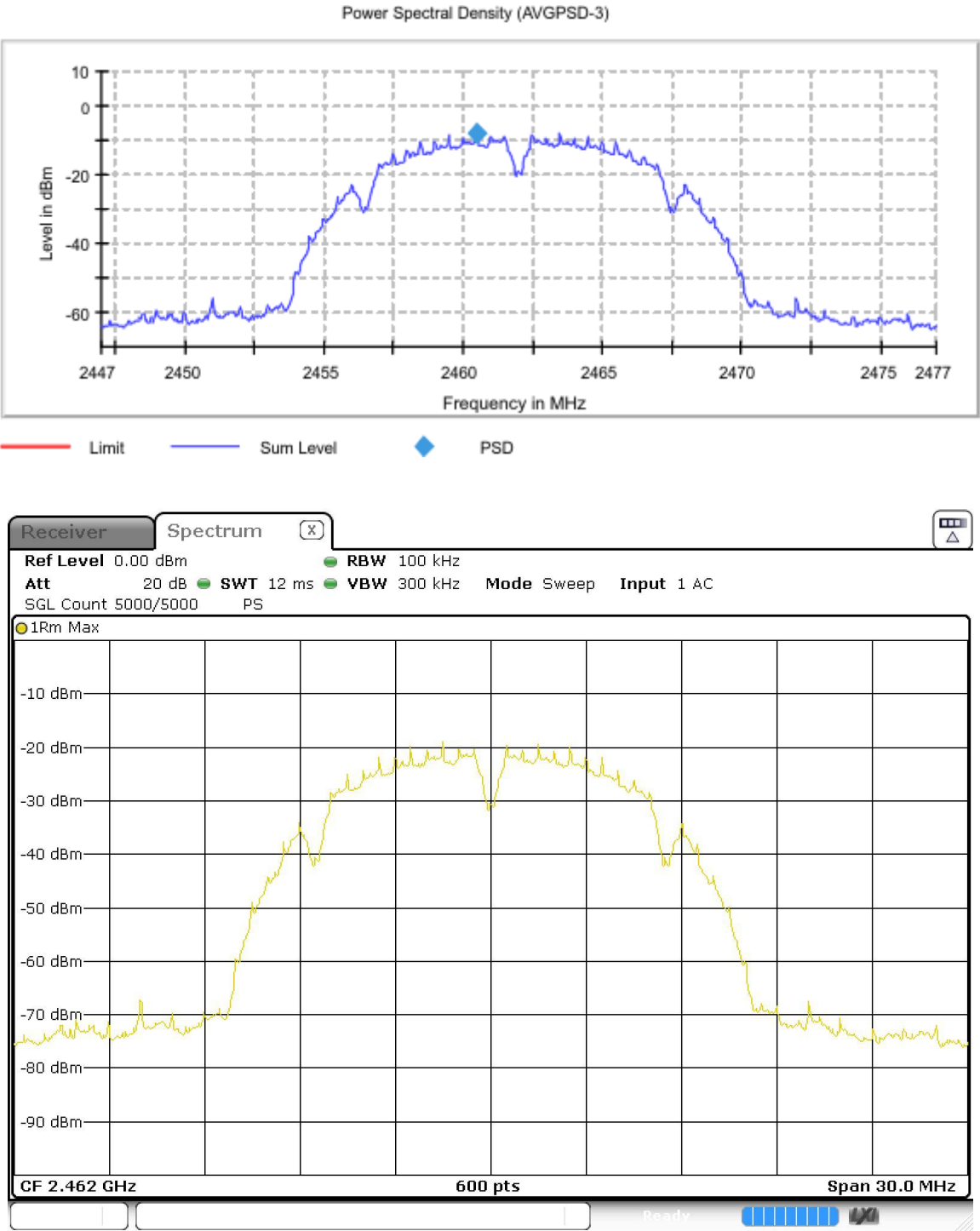
Images:



Date: 25.MAR.2026 15:31:34

Operation Band MHz = [2400, 2483.5] Equipment Type = Digital Transmission System (DTS)
Frequency MHz = 2462.00000 Active Port = 1
Modulation = 802.11b (DSSS 1 Mbit/s)

Images:



Date: 25.MAR.2026 15:56:50

Modulation: 802.11g (OFDM 6 Mbit/s)
Results

Operation Band (MHz)	Equipment	Freq (MHz)	Port	PSD (dBm)
[2400, 2483.5]	Digital Transmission System (DTS)	2412.00000	1	-12.83
		2437.00000		-13.36
		2462.00000		-12.88

Verdict

Pass

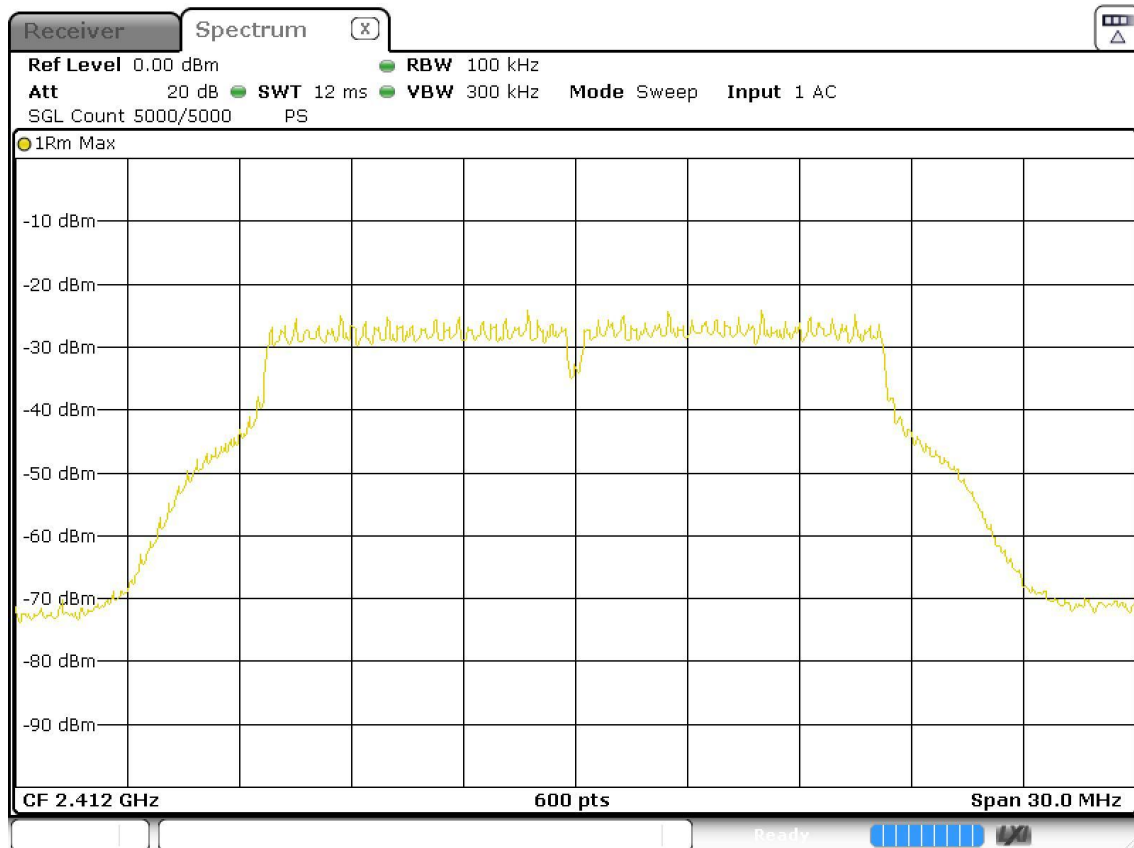
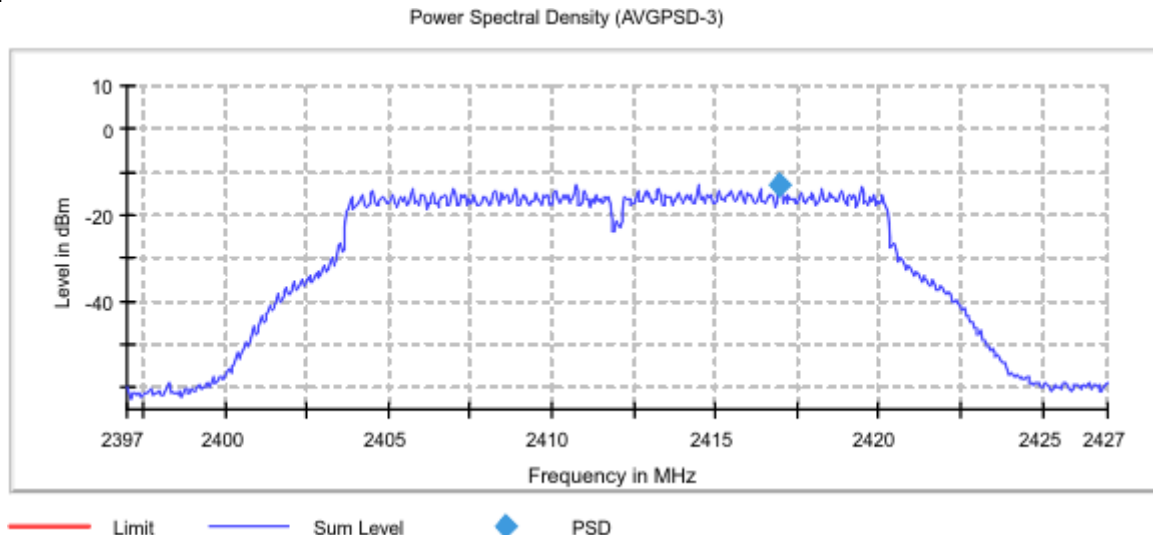
Attachments

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

Frequency MHz = 2412.00000 Active Port = 1

Modulation = 802.11g (OFDM 6 Mbit/s)

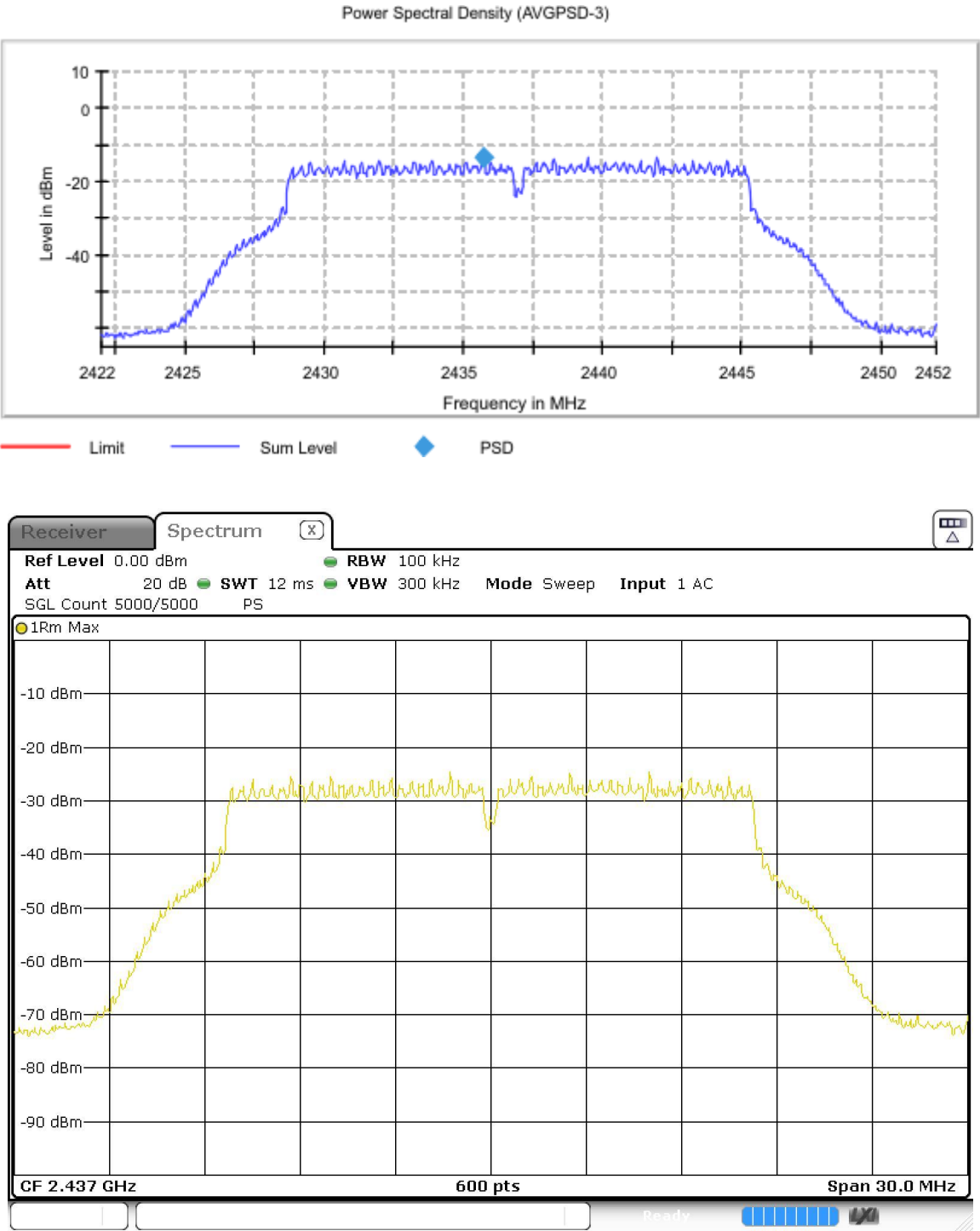
Images:



Date: 25.MAR.2026 16:10:43

Operation Band MHz = [2400, 2483.5] Equipment Type = Digital Transmission System (DTS)
Frequency MHz = 2437.00000 Active Port = 1
Modulation = 802.11g (OFDM 6 Mbit/s)

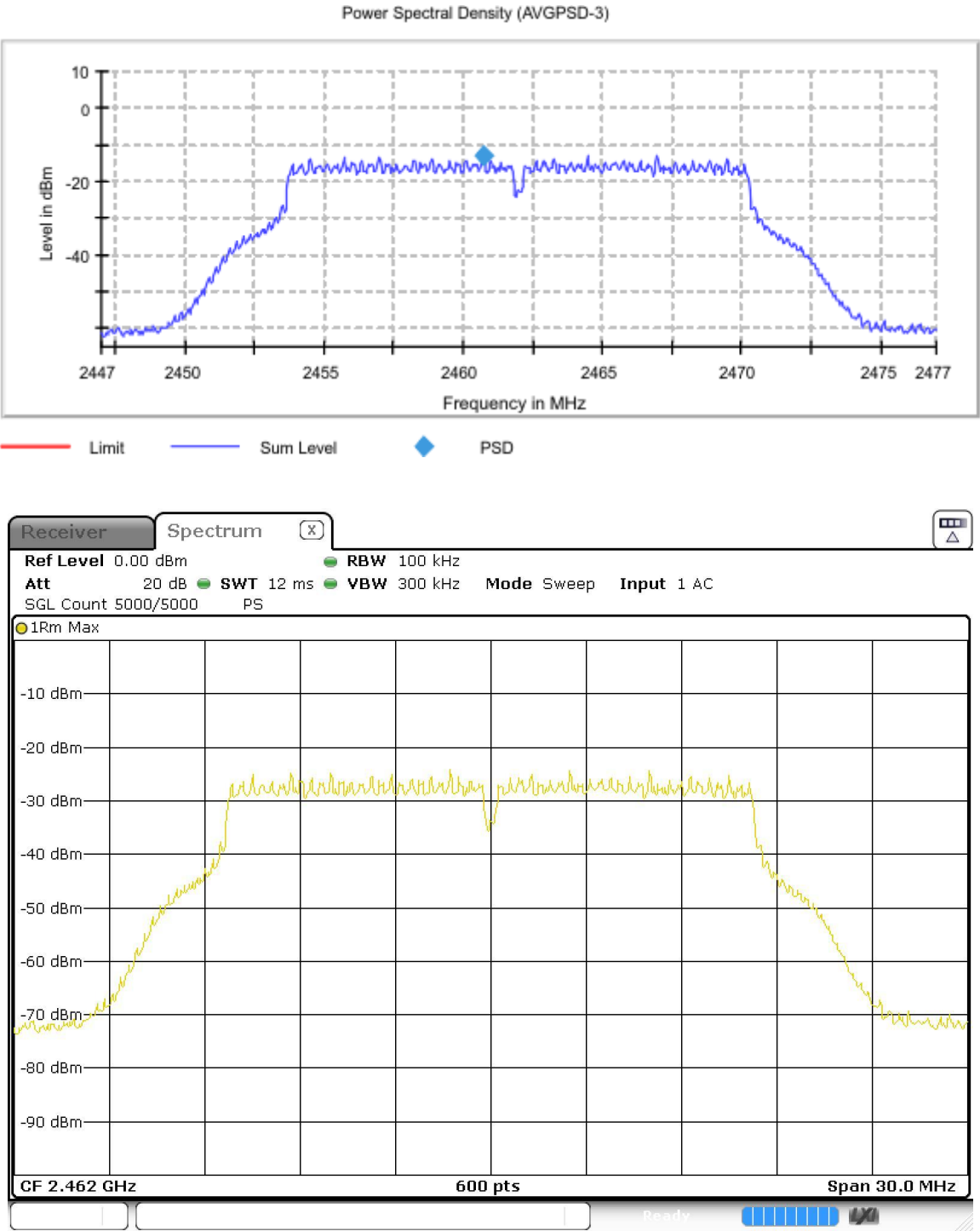
Images:



Date: 25.MAR.2026 16:34:44

Operation Band MHz = [2400, 2483.5] Equipment Type = Digital Transmission System (DTS)
Frequency MHz = 2462.00000 Active Port = 1
Modulation = 802.11g (OFDM 6 Mbit/s)

Images:



Date: 25.MAR.2026 16:43:12

Modulation: 802.11n HT20 (OFDM MCS0)
Results

Operation Band (MHz)	Equipment	Freq (MHz)	Port	PSD (dBm)
[2400, 2483.5]	Digital Transmission System (DTS)	2412.00000	1	-12.88
		2437.00000		-13.41
		2462.00000		-13.26

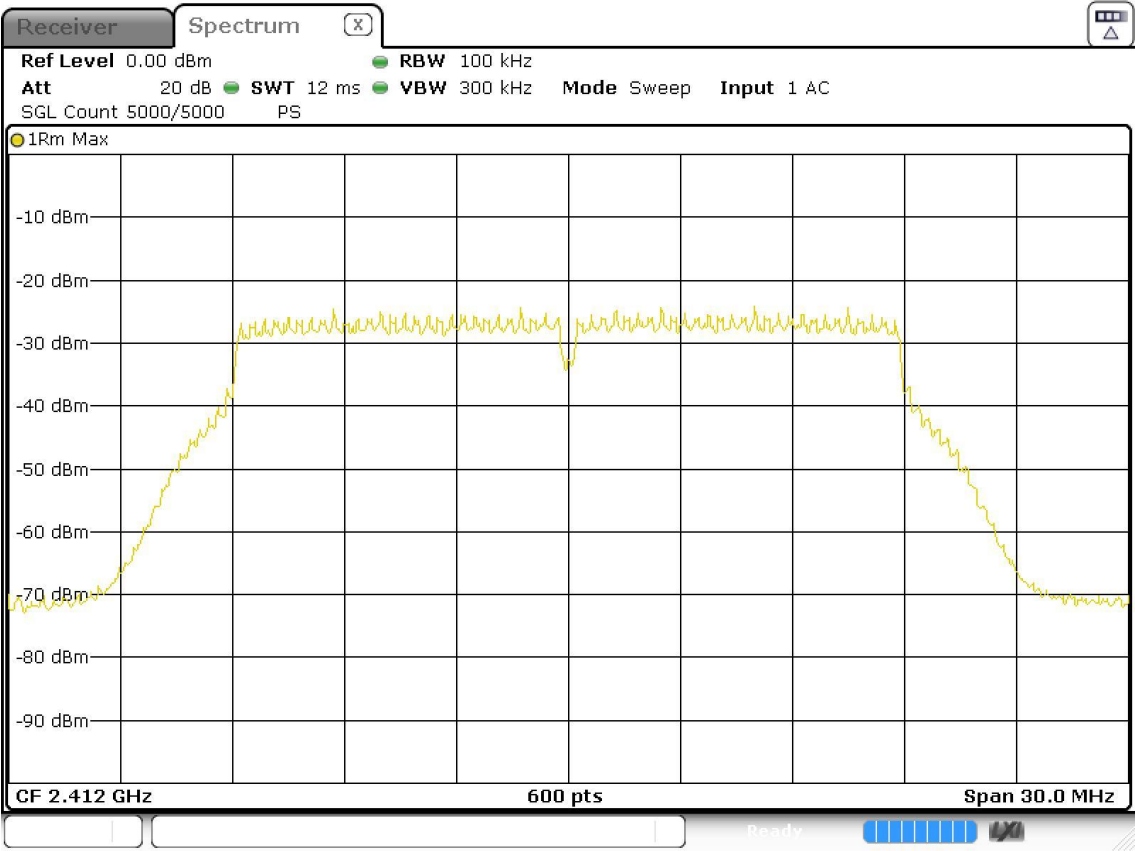
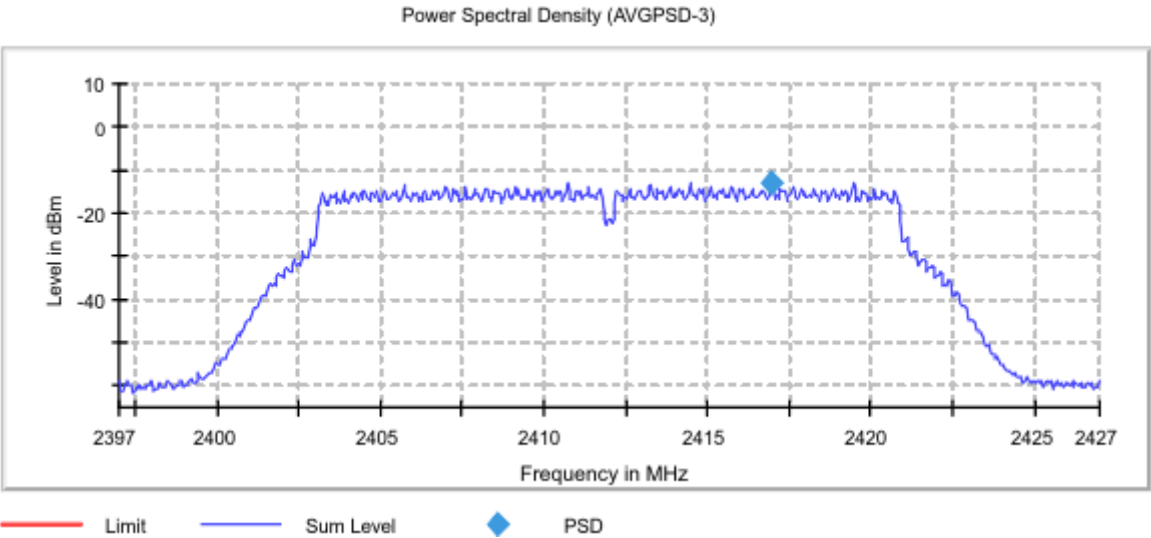
Verdict

Pass

Attachments

Operation Band MHz = [2400, 2483.5] Equipment Type = Digital Transmission System (DTS)
Frequency MHz = 2412.00000 Active Port = 1
Modulation = 802.11n HT20 (OFDM MCS0)

Images:



Date: 25.MAR.2026 17:03:50

Operation Band MHz = [2400, 2483.5]

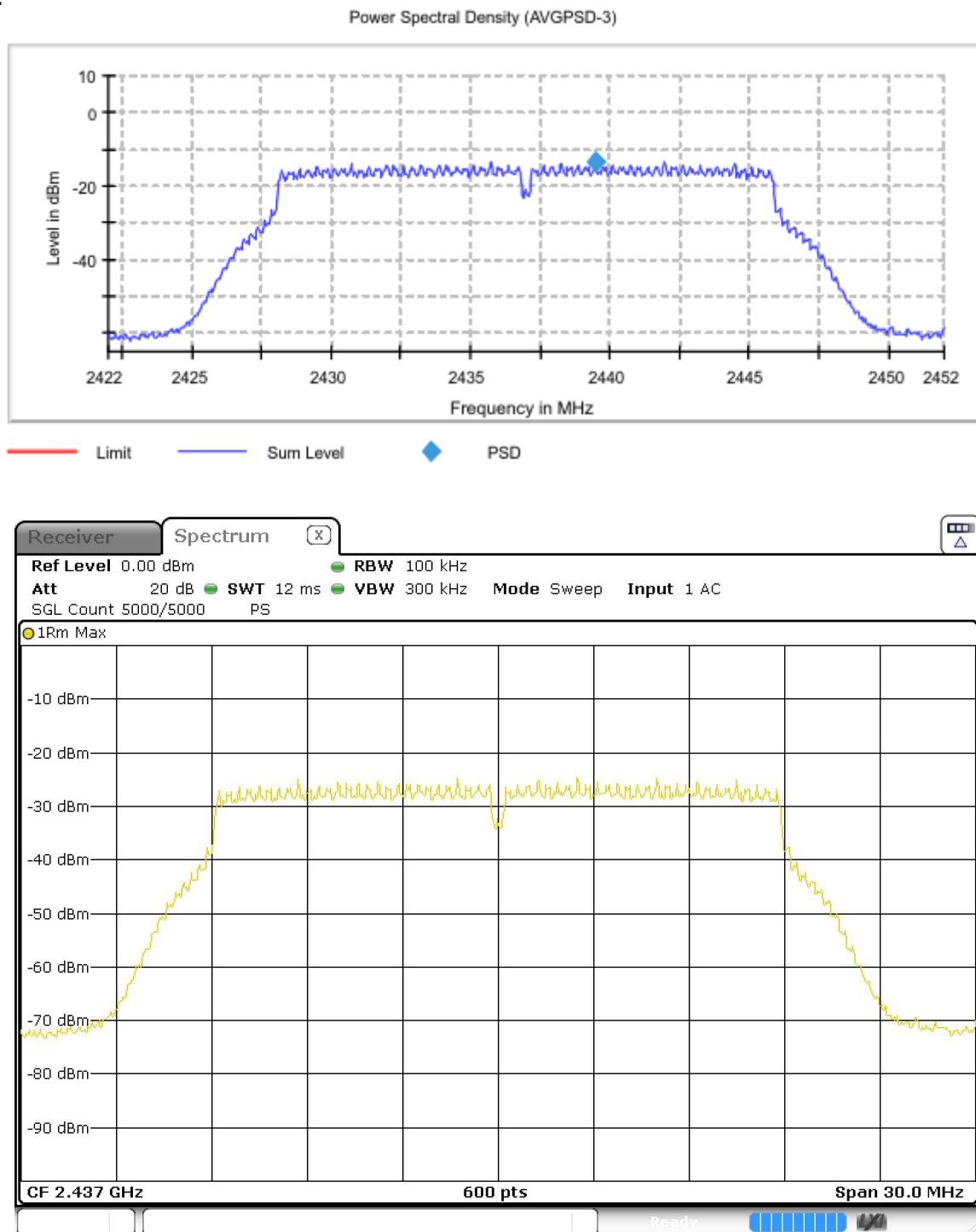
Equipment Type = Digital Transmission System (DTS)

Frequency MHz = 2437.00000

Active Port = 1

Modulation = 802.11n HT20 (OFDM MCS0)

Images:



Date: 25.MAR.2026 17:22:47

Operation Band MHz = [2400, 2483.5]

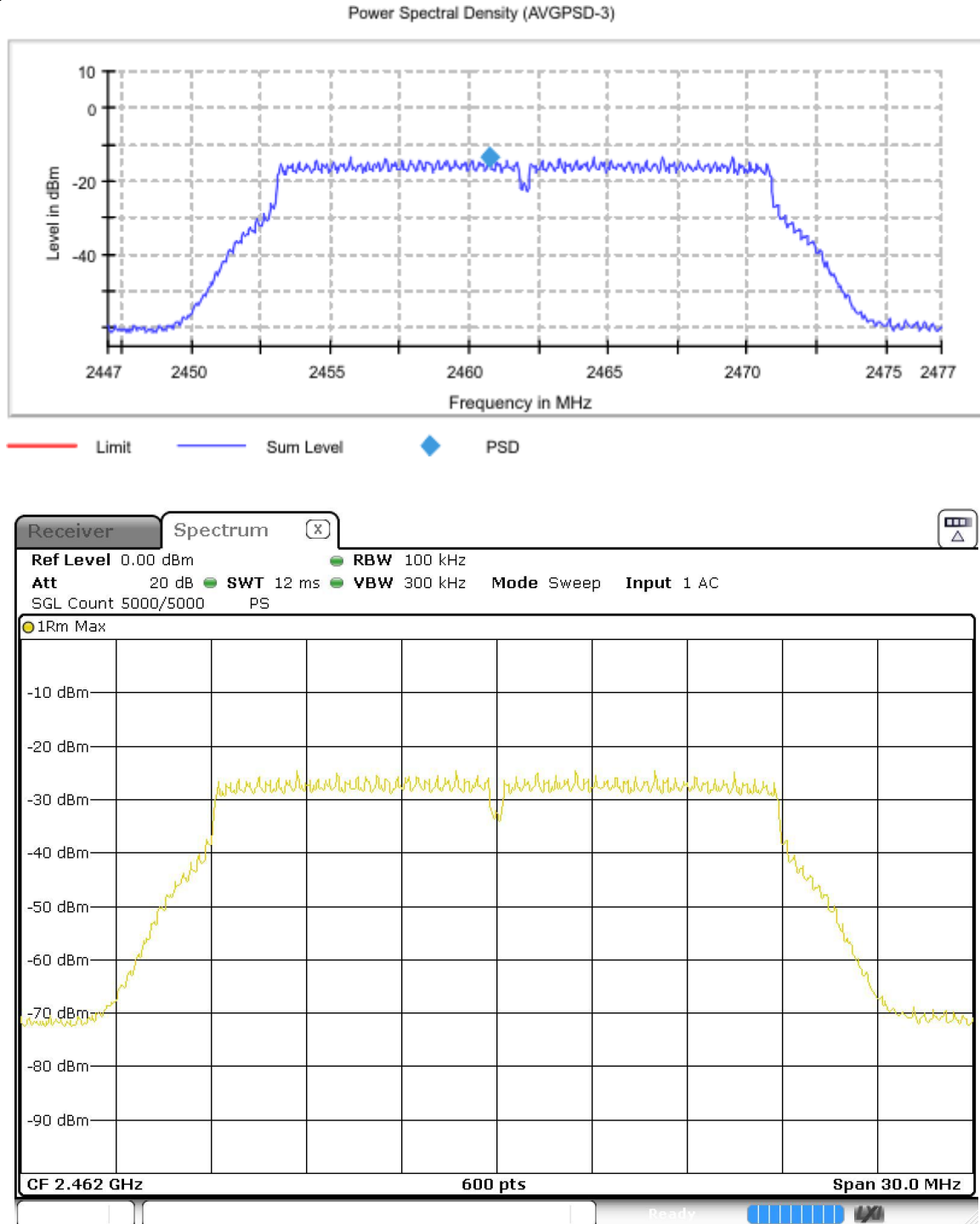
Equipment Type = Digital Transmission System (DTS)

Frequency MHz = 2462.00000

Active Port = 1

Modulation = 802.11n HT20 (OFDM MCS0)

Images:



Date: 25.MAR.2026 17:36:22

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

Limits

USA FCC Part 15.407 (11-18-2024):

FCC 15.247:

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

(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 transmitted 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.

CANADA RSS-247 Issue 4 (July 2025):

a) 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).

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

Modulation: 802.11b (DSSS 1 Mbit/s)

Results

Operation Band (MHz)	Equipment	Freq (MHz)	Port	Avg Power (dBm)	E.I.R.P. (dBm)
[2400, 2483.5]	Digital Transmission System (DTS)	2412.00000	1	2.80	8.43
		2437.00000		2.40	8.03
		2462.00000		2.70	8.33

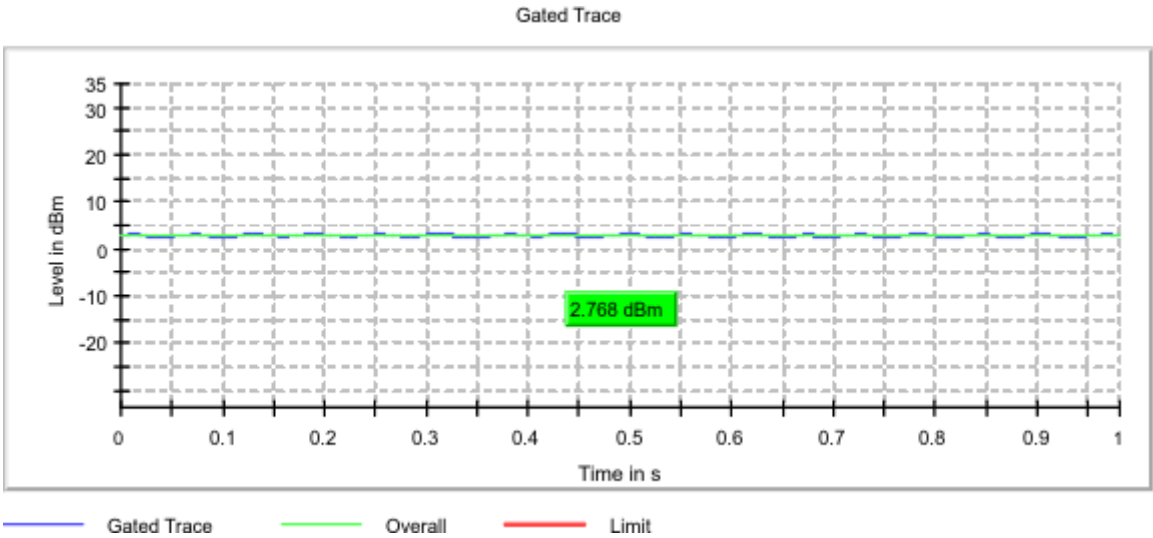
Verdict

Pass

Attachments

Operation Band MHz = [2400, 2483.5] Equipment Type = Digital Transmission System (DTS)
Frequency MHz = 2412.00000 Active Port = 1
Modulation = 802.11b (DSSS 1 Mbit/s)

Images:



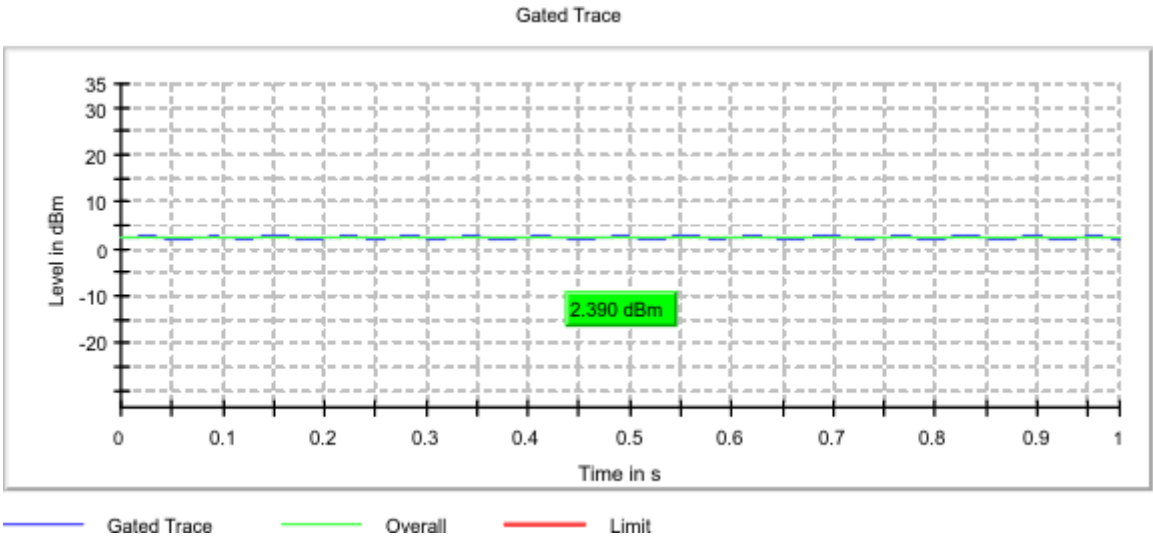
Tables:

Spectrum Analyzer Parameters

Setting	Instrument Value	Target Value
Measurement Time	1.000 s	1.000 s
Points	1000000	1000000
Time resolution	1.000 μs	1.000 μs

Operation Band MHz = [2400, 2483.5] Equipment Type = Digital Transmission System (DTS)
Frequency MHz = 2437.00000 Active Port = 1
Modulation = 802.11b (DSSS 1 Mbit/s)

Images:



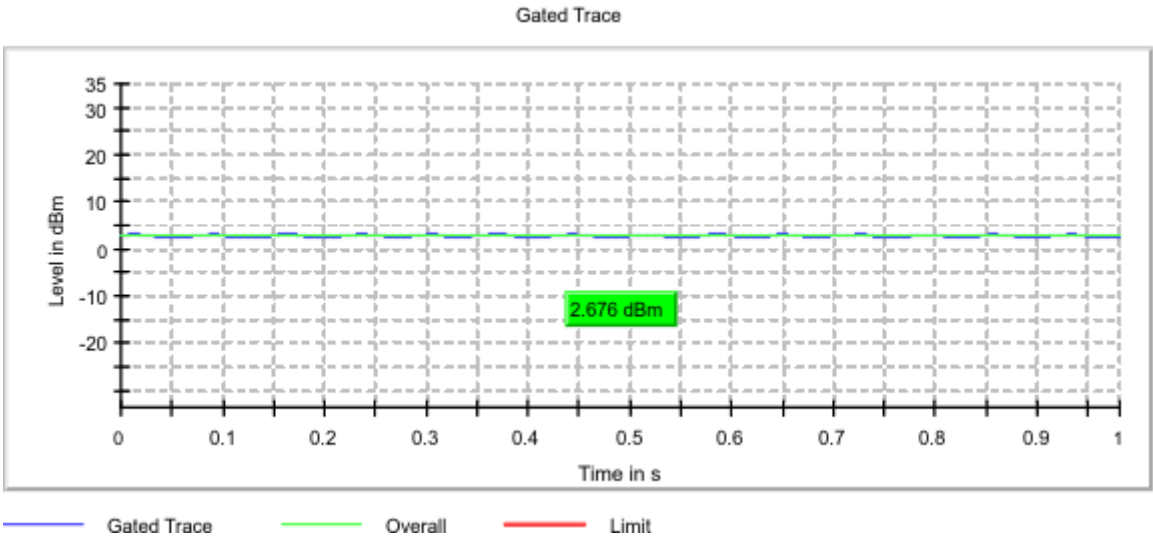
Tables:

Spectrum Analyzer Parameters

Setting	Instrument Value	Target Value
Measurement Time	1.000 s	1.000 s
Points	1000000	1000000
Time resolution	1.000 μs	1.000 μs

Operation Band MHz = [2400, 2483.5] Equipment Type = Digital Transmission System (DTS)
Frequency MHz = 2462.00000 Active Port = 1
Modulation = 802.11b (DSSS 1 Mbit/s)

Images:



Tables:
Spectrum Analyzer Parameters

Setting	Instrument Value	Target Value
Measurement Time	1.000 s	1.000 s
Points	1000000	1000000
Time resolution	1.000 μs	1.000 μs

Modulation: 802.11g (OFDM 6 Mbit/s)
Results

Operation Band (MHz)	Equipment	Freq (MHz)	Port	Avg Power (dBm)	E.I.R.P. (dBm)
[2400, 2483.5]	Digital Transmission System (DTS)	2412.00000	1	2.80	8.43
		2437.00000		2.60	8.23
		2462.00000		2.90	8.53

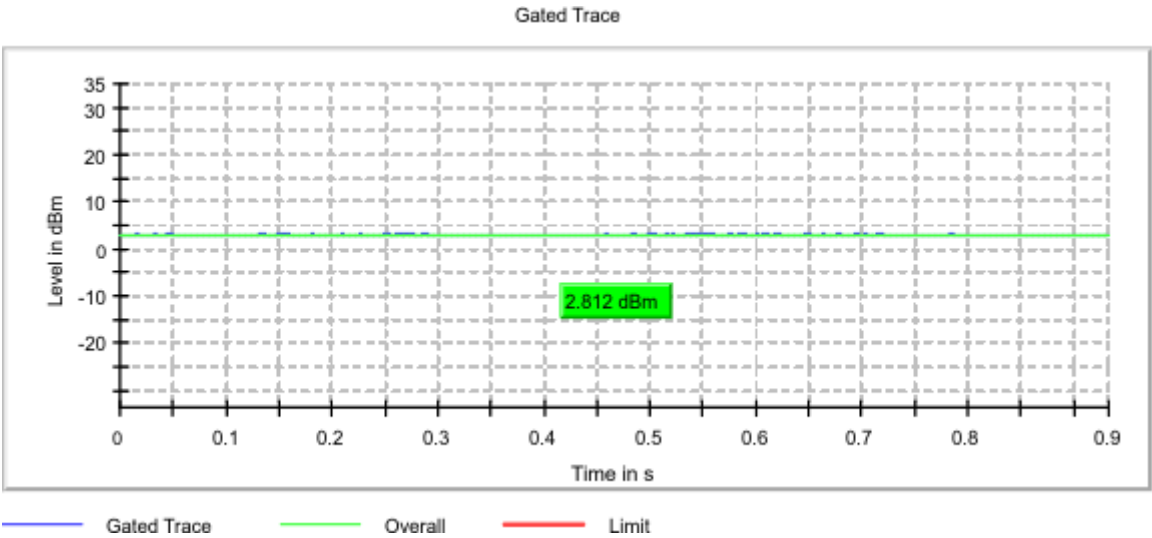
Verdict

Pass

Attachments

Operation Band MHz = [2400, 2483.5] Equipment Type = Digital Transmission System (DTS)
Frequency MHz = 2412.00000 Active Port = 1
Modulation = 802.11g (OFDM 6 Mbit/s)

Images:



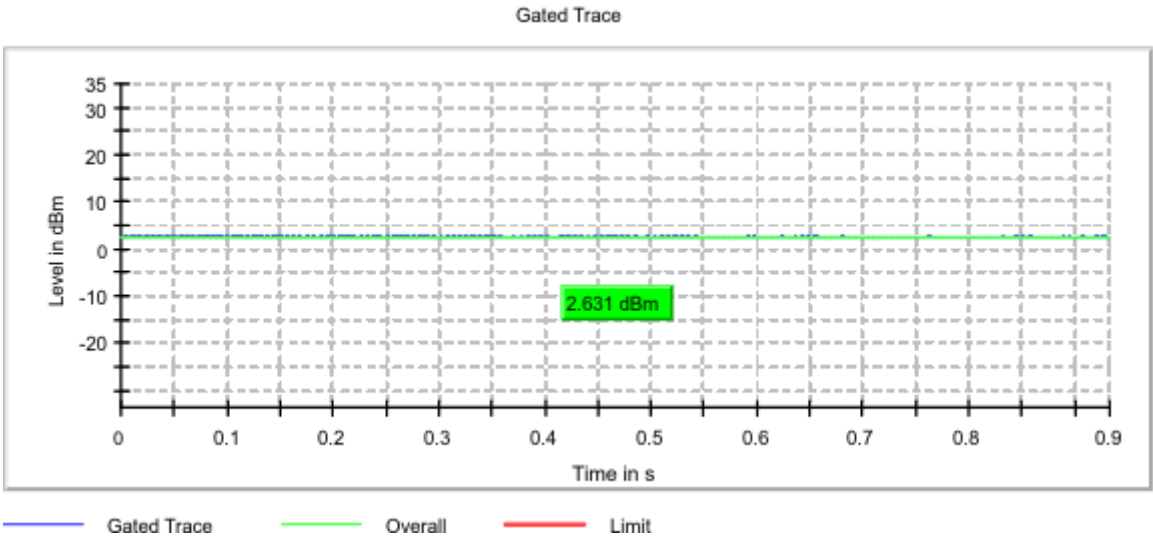
Tables:

Spectrum Analyzer Parameters

Setting	Instrument Value	Target Value
Measurement Time	1.000 s	1.000 s
Points	1000000	1000000
Time resolution	1.000 μs	1.000 μs

Operation Band MHz = [2400, 2483.5] Equipment Type = Digital Transmission System (DTS)
Frequency MHz = 2437.00000 Active Port = 1
Modulation = 802.11g (OFDM 6 Mbit/s)

Images:

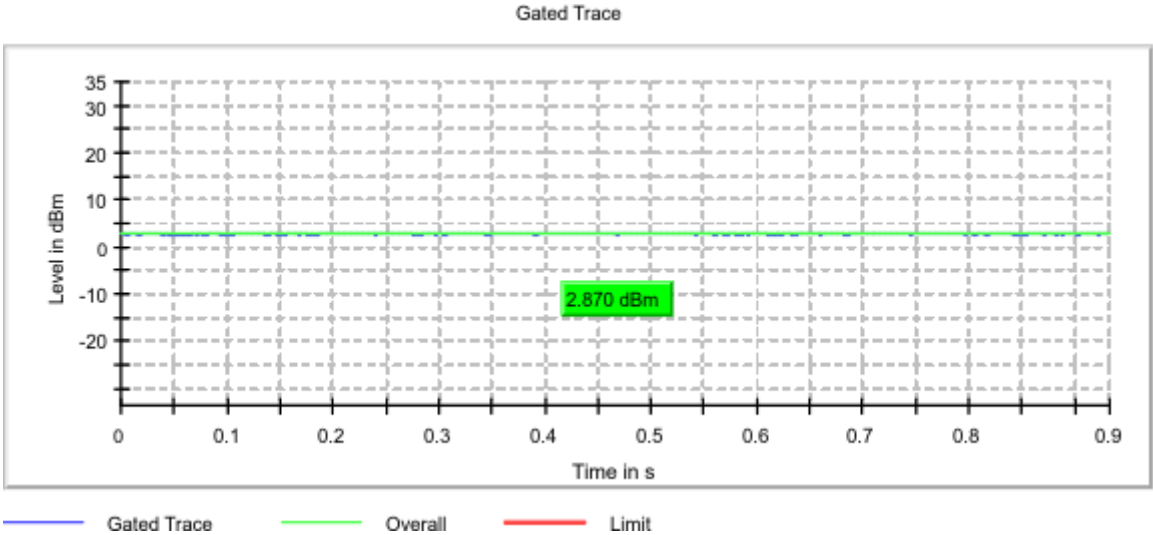


Tables:
Spectrum Analyzer Parameters

Setting	Instrument Value	Target Value
Measurement Time	1.000 s	1.000 s
Points	1000000	1000000
Time resolution	1.000 μs	1.000 μs

Operation Band MHz = [2400, 2483.5] Equipment Type = Digital Transmission System (DTS)
Frequency MHz = 2462.00000 Active Port = 1
Modulation = 802.11g (OFDM 6 Mbit/s)

Images:



Tables:

Spectrum Analyzer Parameters

Setting	Instrument Value	Target Value
Measurement Time	1.000 s	1.000 s
Points	1000000	1000000
Time resolution	1.000 μs	1.000 μs

Modulation: 802.11n HT20 (OFDM MCS0)

Results

Operation Band (MHz)	Equipment	Freq (MHz)	Port	Avg Power (dBm)	E.I.R.P. (dBm)
[2400, 2483.5]	Digital Transmission System (DTS)	2412.00000	1	2.80	8.43
		2437.00000		2.40	8.03
		2462.00000		2.70	8.33

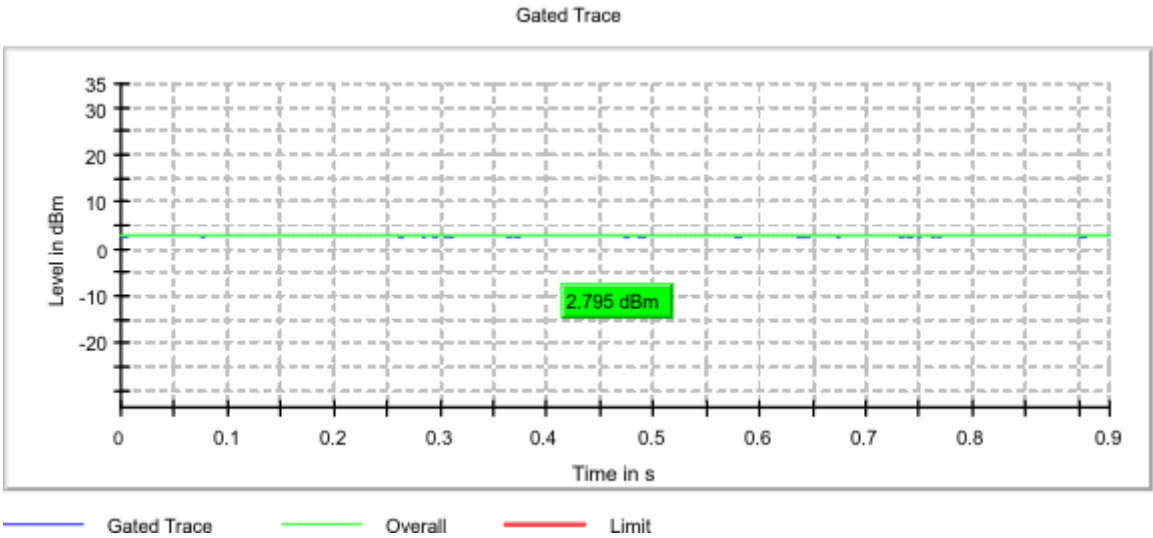
Verdict

Pass

Attachments

Operation Band MHz = [2400, 2483.5] Equipment Type = Digital Transmission System (DTS)
Frequency MHz = 2412.00000 Active Port = 1
Modulation = 802.11n HT20 (OFDM MCS0)

Images:



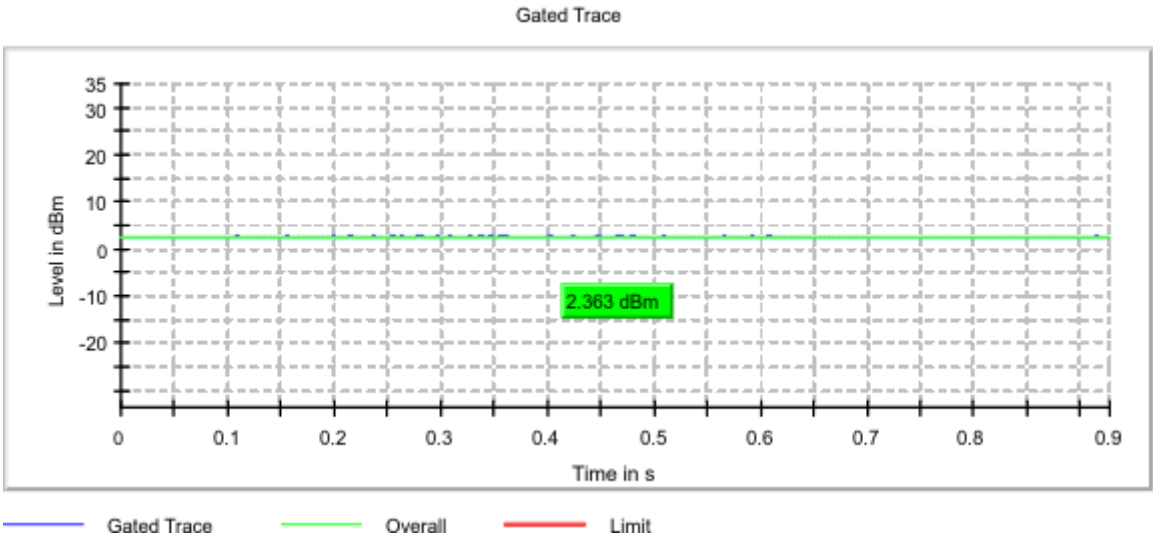
Tables:

Spectrum Analyzer Parameters

Setting	Instrument Value	Target Value
Measurement Time	1.000 s	1.000 s
Points	1000000	1000000
Time resolution	1.000 μs	1.000 μs

Operation Band MHz = [2400, 2483.5] Equipment Type = Digital Transmission System (DTS)
Frequency MHz = 2437.00000 Active Port = 1
Modulation = 802.11n HT20 (OFDM MCS0)

Images:



Tables:

Spectrum Analyzer Parameters

Setting	Instrument Value	Target Value
Measurement Time	1.000 s	1.000 s
Points	1000000	1000000
Time resolution	1.000 μs	1.000 μs

Operation Band MHz = [2400, 2483.5]

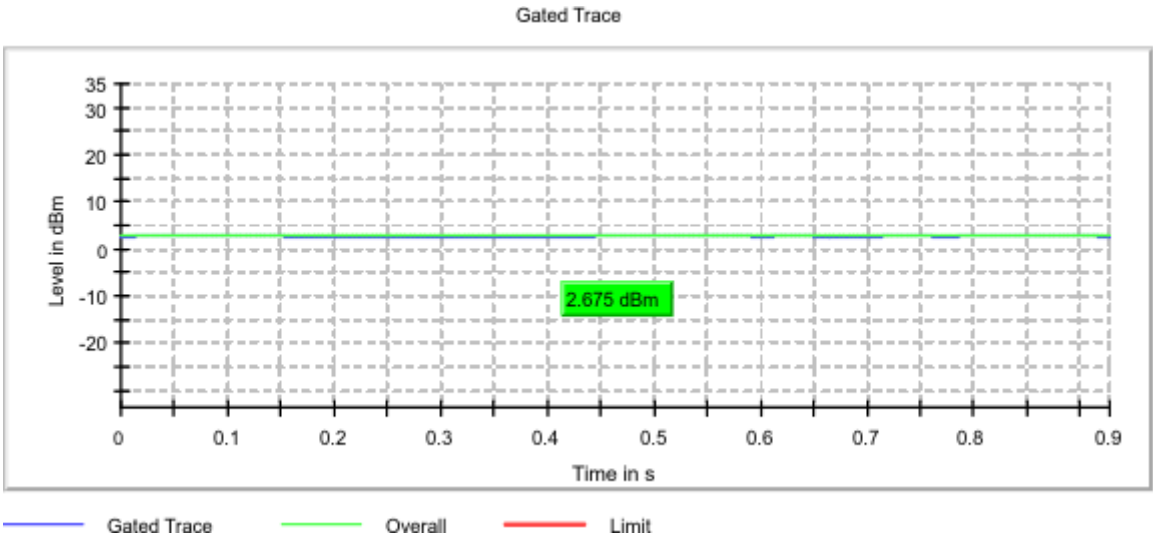
Equipment Type = Digital Transmission System (DTS)

Frequency MHz = 2462.00000

Active Port = 1

Modulation = 802.11n HT20 (OFDM MCS0)

Images:



Tables:

Spectrum Analyzer Parameters

Setting	Instrument Value	Target Value
Measurement Time	1.000 s	1.000 s
Points	1000000	1000000
Time resolution	1.000 μs	1.000 μs

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

Limits

In any 100 kHz bandwidths outside the frequency band in which the 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, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.

Modulation: 802.11b (DSSS 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)	2412.00000	1	-6.700	2338.175000	-51.4
				-6.700	2338.225000	-51.7
				-6.700	2336.175000	-51.7
				-6.700	2339.175000	-51.8
				-6.700	2336.225000	-51.9
				-6.700	2335.175000	-51.9
				-6.700	2339.225000	-52.1
				-6.700	2335.225000	-52.1
				-6.700	2335.675000	-52.6
				-6.700	2340.175000	-52.7
				-6.700	2337.675000	-52.7
				-6.700	2338.675000	-52.8
				-6.700	2337.725000	-52.8
				-6.700	2338.725000	-53.0
				-6.700	2340.225000	-53.0
		2462.00000		-6.800	2498.425000	-59.7
				-6.800	2498.375000	-59.7
				-6.800	2490.975000	-60.4
				-6.800	2485.325000	-60.4
				-6.800	2485.375000	-60.5
				-6.800	2499.475000	-60.7
				-6.800	2495.075000	-60.7
				-6.800	2490.925000	-60.7
				-6.800	2485.875000	-60.7
				-6.800	2499.425000	-60.8
				-6.800	2499.325000	-60.8
				-6.800	2499.525000	-60.8
				-6.800	2487.875000	-60.9
				-6.800	2499.375000	-60.9

Operation Band (MHz)	Equipment	Freq (MHz)	Port	Inband Peak Lvl (dBm)	Freq (MHz)	Lvl (dBm)
				-6.800	2492.875000	-61.0

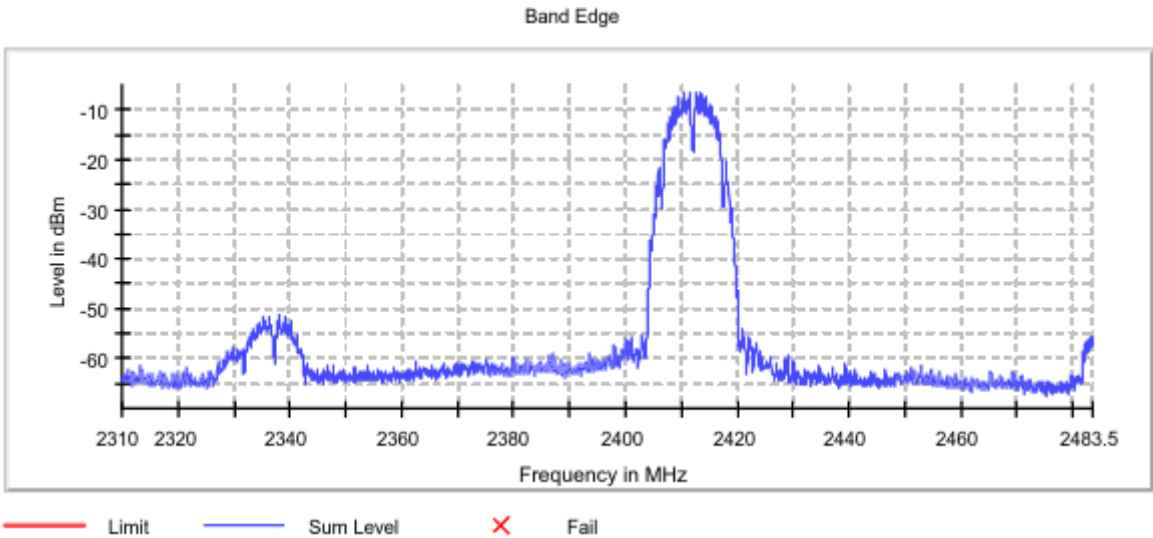
Verdict

Pass

Attachments

Operation Band MHz = [2400, 2483.5] Equipment Type = Digital Transmission System (DTS)
Frequency MHz = 2412.00000 Active Port = 1
Modulation = 802.11b (DSSS 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	94.727 µs	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO

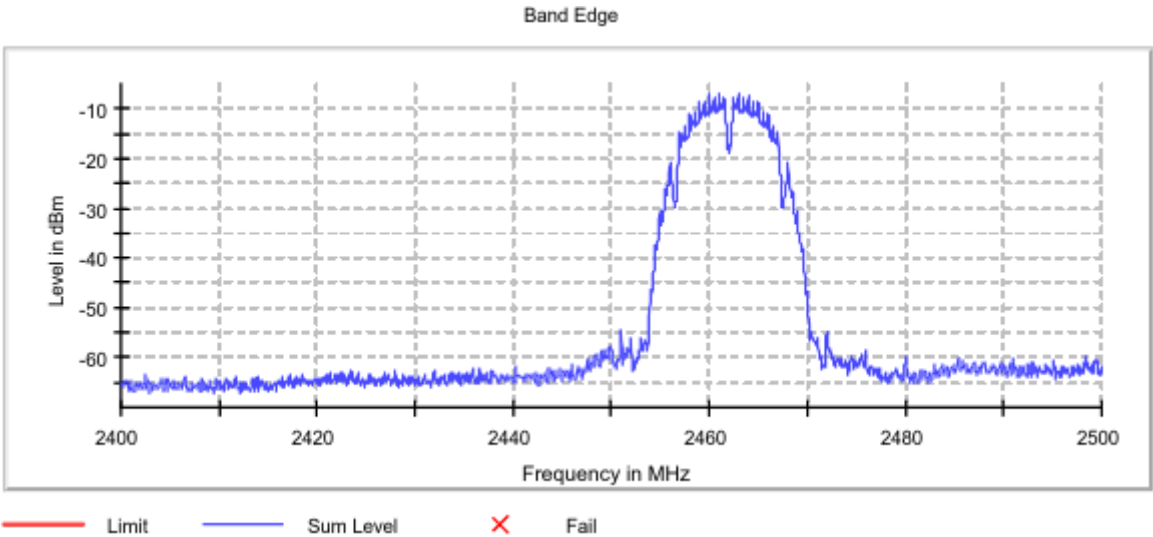
Setting	Instrument Value	Target Value
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	12 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.00 dB	0.50 dB

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
SweepTime	94.727 µs	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	5 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.13 dB	0.50 dB

Operation Band MHz = [2400, 2483.5] Equipment Type = Digital Transmission System (DTS)
Frequency MHz = 2462.00000 Active Port = 1
Modulation = 802.11b (DSSS 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	94.727 µs	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	12 / 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
Sweeptime	94.727 µs	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamplifier	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	5 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.13 dB	0.50 dB

Modulation: 802.11g (OFDM 6 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)	2412.00000	1	-9.800	2399.725000	-52.8
				-9.800	2399.775000	-52.9
				-9.800	2400.000000	-52.9
				-9.800	2399.975000	-53.5
				-9.800	2340.925000	-53.6
				-9.800	2330.925000	-53.8
				-9.800	2399.925000	-53.8
				-9.800	2399.825000	-54.0
				-9.800	2399.875000	-54.0
				-9.800	2340.975000	-54.1
				-9.800	2399.675000	-54.1
				-9.800	2399.175000	-54.2
				-9.800	2399.625000	-54.2
				-9.800	2334.675000	-54.3
				-9.800	2399.075000	-54.3
		2462.00000		-9.800	2483.575000	-57.5
				-9.800	2483.625000	-57.7
				-9.800	2489.525000	-57.8
				-9.800	2486.075000	-57.8
				-9.800	2496.225000	-57.9
				-9.800	2486.125000	-57.9
				-9.800	2487.125000	-58.1
				-9.800	2487.175000	-58.2
				-9.800	2496.175000	-58.2
				-9.800	2486.525000	-58.3
				-9.800	2495.375000	-58.3
				-9.800	2483.525000	-58.4
				-9.800	2489.475000	-58.4
				-9.800	2495.425000	-58.5
				-9.800	2496.275000	-58.6

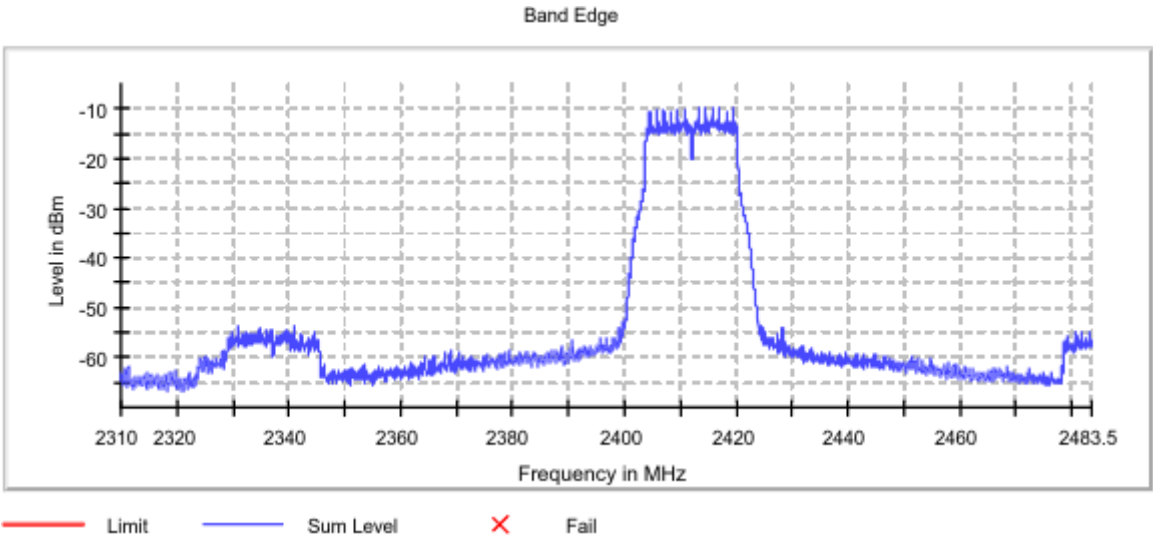
Verdict

Pass

Attachments

Operation Band MHz = [2400, 2483.5] Equipment Type = Digital Transmission System (DTS)
Frequency MHz = 2412.00000 Active Port = 1
Modulation = 802.11g (OFDM 6 Mbit/s)

Images:



Tables:

Spectrum Analyzer Parameters 1

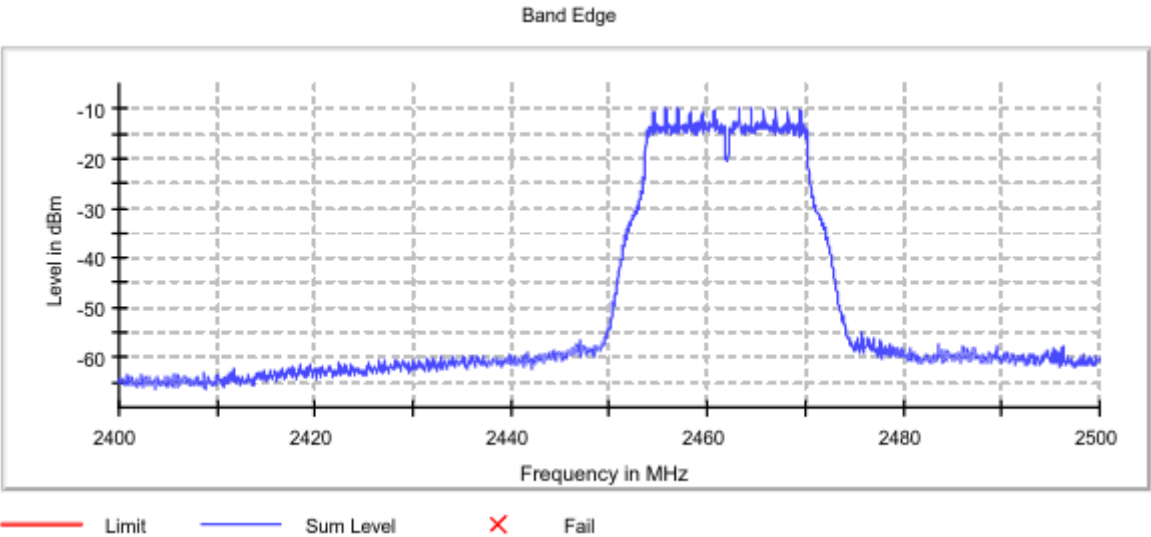
Setting	Instrument Value	Target Value
Start Frequency	2.31000 GHz	2.31000 GHz
Stop Frequency	2.40000 GHz	2.40000 GHz
Span	90.000 MHz	90.000 MHz
RBW	100.000 kHz	<= 100.000 kHz
VBW	300.000 kHz	>= 300.000 kHz
SweepPoints	1800	~ 1800
Sweeptime	94.727 µs	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	5 / 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
Sweeptime	94.727 µs	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamplifier	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	21 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.32 dB	0.50 dB

Operation Band MHz = [2400, 2483.5] Equipment Type = Digital Transmission System (DTS)
Frequency MHz = 2462.00000 Active Port = 1
Modulation = 802.11g (OFDM 6 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	94.727 µs	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamplifier	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	5 / 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
Sweeptime	94.727 µs	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamplifier	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	21 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.32 dB	0.50 dB

Modulation: 802.11n HT20 (OFDM MCS0)
Results

Operation Band (MHz)	Equipment	Freq (MHz)	Port	Inband Peak Lvl (dBm)	Freq (MHz)	Lvl (dBm)
[2400, 2483.5]	Digital Transmission System (DTS)	2412.00000	1	-9.600	2399.975000	-51.2
				-9.600	2399.925000	-51.3
				-9.600	2399.875000	-51.5
				-9.600	2399.825000	-52.3
				-9.600	2399.775000	-52.7
				-9.600	2399.725000	-52.9
				-9.600	2400.000000	-53.0
				-9.600	2333.825000	-53.7
				-9.600	2330.925000	-53.8
				-9.600	2399.375000	-53.9
				-9.600	2399.425000	-54.0
				-9.600	2340.075000	-54.0
				-9.600	2399.675000	-54.0
				-9.600	2396.975000	-54.1
				-9.600	2397.025000	-54.2
		2462.00000		-9.900	2488.125000	-58.1
				-9.900	2483.925000	-58.2
				-9.900	2486.425000	-58.2
				-9.900	2488.175000	-58.4
				-9.900	2483.975000	-58.4
				-9.900	2486.975000	-58.4
				-9.900	2487.375000	-58.5
				-9.900	2487.175000	-58.5
				-9.900	2499.825000	-58.6
				-9.900	2484.275000	-58.6
				-9.900	2490.775000	-58.7
				-9.900	2487.025000	-58.7
				-9.900	2490.825000	-58.8
				-9.900	2483.575000	-58.8
				-9.900	2488.725000	-58.8

Verdict

Pass

Attachments

Operation Band MHz = [2400, 2483.5]

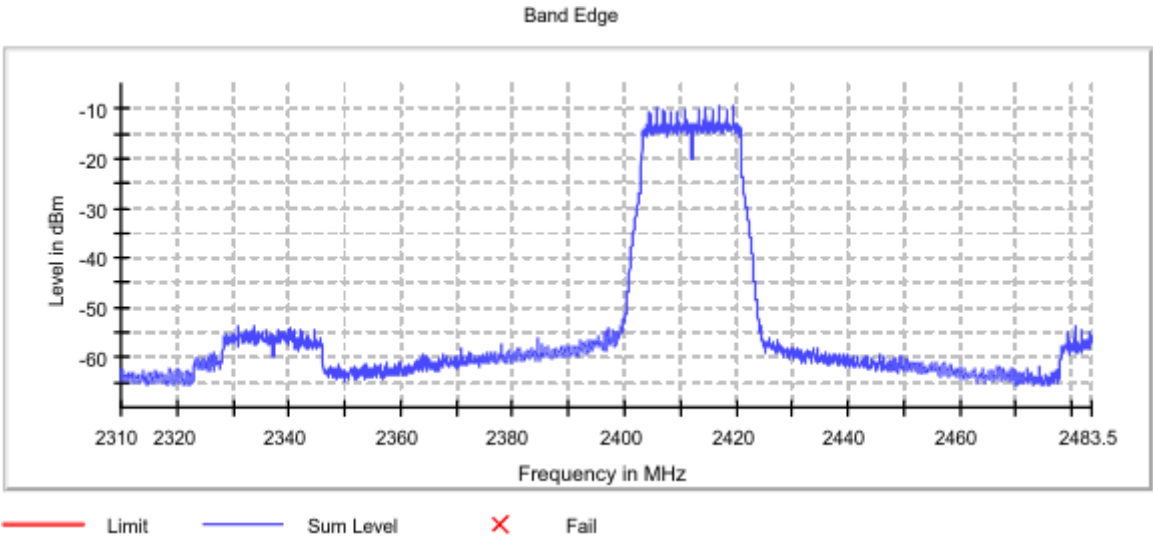
Equipment Type = Digital Transmission System (DTS)

Frequency MHz = 2412.00000

Active Port = 1

Modulation = 802.11n HT20 (OFDM MCS0)

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	94.727 µs	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	15 / 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
Sweeptime	94.727 µs	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamplifier	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	17 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.34 dB	0.50 dB

Operation Band MHz = [2400, 2483.5]

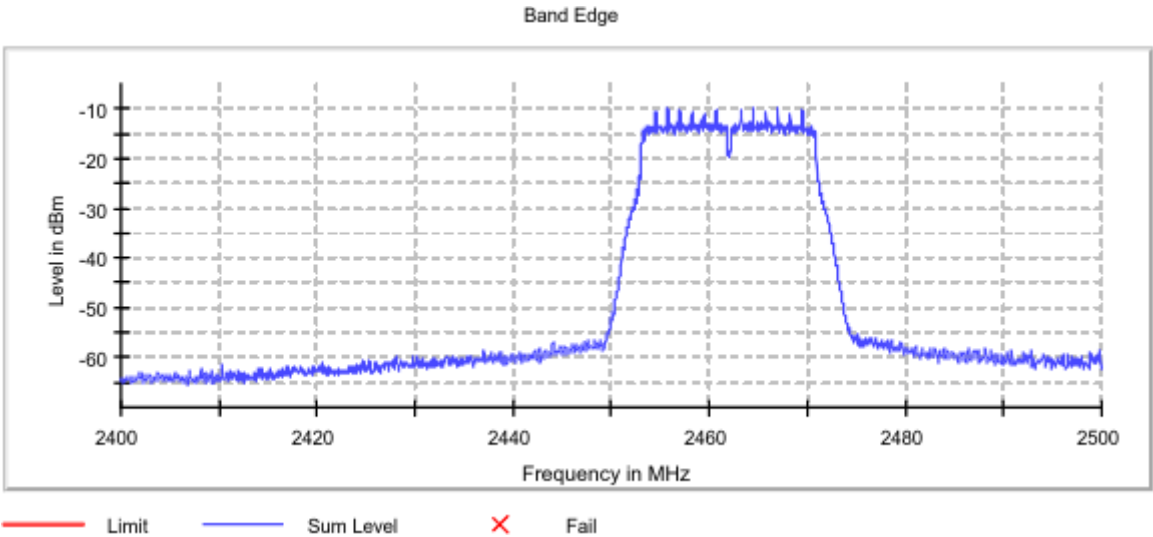
Equipment Type = Digital Transmission System (DTS)

Frequency MHz = 2462.00000

Active Port = 1

Modulation = 802.11n HT20 (OFDM MCS0)

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	94.727 µs	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamplifier	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	15 / 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
Sweeptime	94.727 µs	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamplifier	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	17 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.34 dB	0.50 dB

RSS-247 6.6 / FCC 15.247 (d) [RSE] Emission limitations radiated (Transmitter)

Limits

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)/RSS-Gen):

Frequency Range (MHz)	Field strength ($\mu\text{V/m}$)	Field strength ($\text{dB}\mu\text{V/m}$)	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	40	3
88 - 216	150	43.5	3
216 - 960	200	46	3
Above 960	500	54	3

The emission limits shown in the above table are based on measurements employing 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.

For average radiated emission measurements above 1000 MHz, there is also a limit corresponding to 20 dB above the indicated values in the table is specified when measuring with peak detector function.

RSS-247: Attenuation below the general field strength limits specified in RSS-Gen is not required.

Frequency range tested for Radiated emissions:

Start frequency: no radiofrequency signal generated in the device found below 10th sub-harmonic, no further investigation required.

Stop frequency: it has been performed the radiated spurious emissions until 10th harmonic.

Frequency range 30 MHz – 1000 MHz

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

The results in the following plots and tables show the maximum measured levels in the 30-1000 MHz range.

Modulation: 802.11b (DSSS 1 Mbit/s)

Results

Operation Band (MHz)	Freq Rng (GHz)	Equipment	Freq (MHz)	Port	Unwanted Freq (MHz)	Unwanted Lvl (dBμV/m)	PoI	Detector
[2400, 2483.5]	[0.03, 1]	Digital Transmission System (DTS)	2412.00000	1	37.711500	6.0	V	QPK+
			2412.00000		108.909500	1.2	H	QPK+
			2412.00000		115.602500	2.6	H	QPK+
			2412.00000		130.055500	2.8	H	QPK+
			2412.00000		137.573000	2.6	V	QPK+
			2412.00000		405.584000	11.8	H	QPK+
	[1, 18]		2412.00000		11868.000	39.80	V	AVG
			2412.00000		1687.500	43.60	H	AVG
			2412.00000		2410.500	84.70	H	AVG
			2437.00000		11955.500	39.60	H	AVG
			2437.00000		1687.500	46.30	V	AVG
			2437.00000		2436.000	86.00	H	AVG
			2462.00000		12447.000	39.90	H	AVG
			2462.00000		1687.500	46.30	V	AVG
			2462.00000		2463.000	87.70	H	AVG
	[18, 26]		2412.00000		19300.500	37.05	V	AVG
			2412.00000		19303.500	48.38	V	PK
			2412.00000		20572.500	36.83	H	AVG
			2412.00000		20585.500	48.25	V	PK
			2412.00000		21341.000	37.55	V	AVG
			2412.00000		21345.000	48.68	H	PK
			2412.00000		22124.500	48.63	V	PK
			2412.00000		22798.500	37.60	V	AVG
			2412.00000		23613.500	47.86	H	PK
			2412.00000		23614.000	35.88	H	AVG
			2437.00000		19318.500	36.80	H	AVG
			2437.00000		19325.000	48.65	H	PK
			2437.00000		20577.500	36.86	V	AVG
			2437.00000		20587.500	48.52	H	PK
			2437.00000		21327.500	48.70	V	PK
			2437.00000		21336.000	37.34	H	AVG
			2437.00000		22120.500	48.90	H	PK
			2437.00000		22737.000	37.59	H	AVG
			2437.00000		23605.500	46.87	H	PK
			2437.00000		23623.000	35.86	H	AVG
			2462.00000		19300.500	49.02	V	PK
			2462.00000		19308.500	37.27	H	AVG
			2462.00000		20476.000	48.03	H	PK

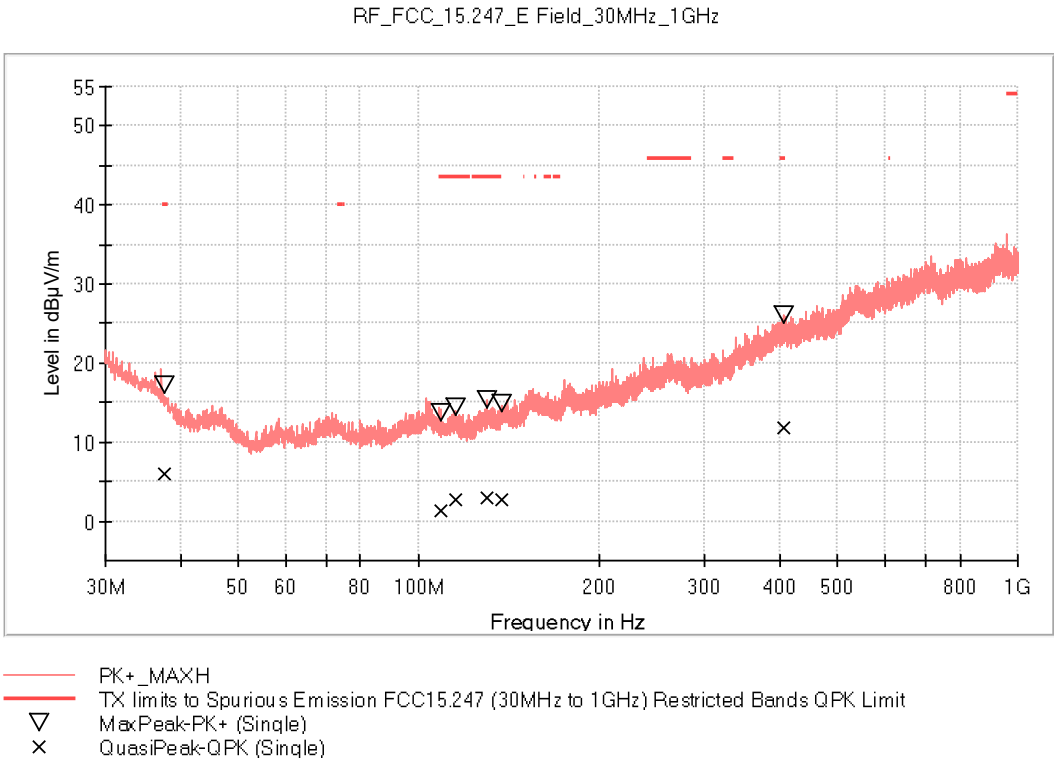
Operation Band (MHz)	Freq Rng (GHz)	Equipment	Freq (MHz)	Port	Unwanted Freq (MHz)	Unwanted Lvl (dBµV/m)	Pol	Detector
			2462.00000		20573.500	36.91	V	AVG
			2462.00000		21097.500	49.17	V	PK
			2462.00000		21329.500	37.36	H	AVG
			2462.00000		22085.000	48.74	V	PK
			2462.00000		22085.500	37.46	V	AVG
			2462.00000		23630.000	47.49	H	PK
			2462.00000		23630.000	35.93	H	AVG

Verdict

Pass

Operation Band MHz = [2400, 2483.5]
Equipment Type = Digital Transmission System (DTS)
Active Port = 1

Frequency Range GHz = [0.03, 1]
Frequency MHz = 2412.00000
Modulation = 802.11b (DSSS 1 Mbit/s)



Attachments

Operation Band MHz = [2400, 2483.5]

Frequency Range GHz = [1, 18]

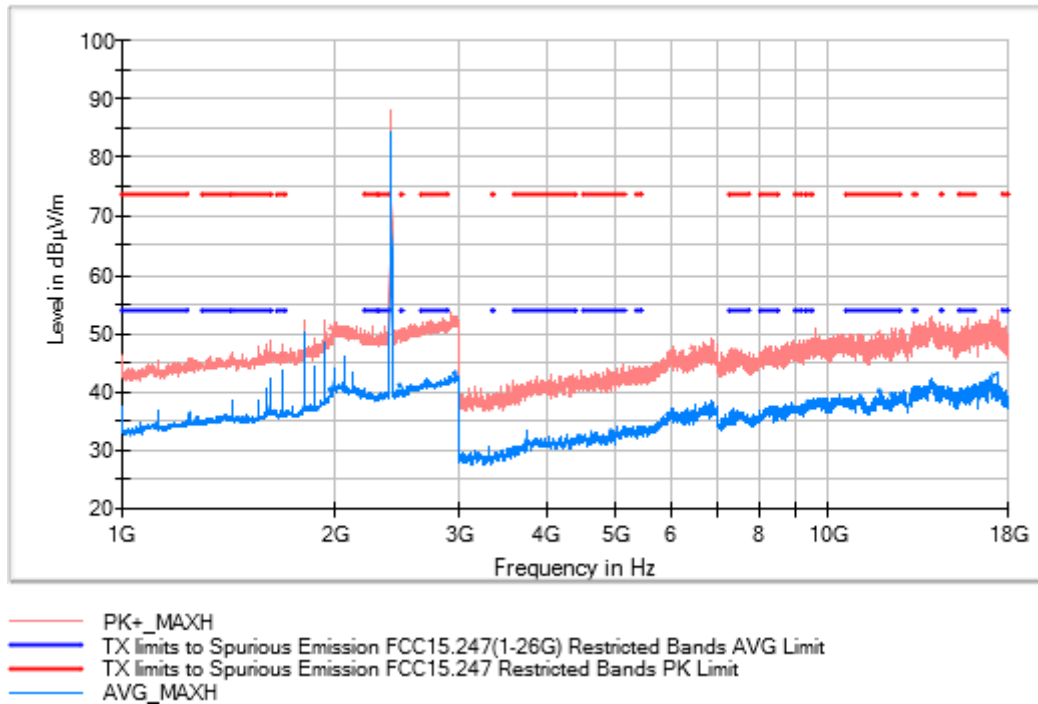
Equipment Type = Digital Transmission System (DTS) Frequency MHz = 2412.00000

Active Port = 1

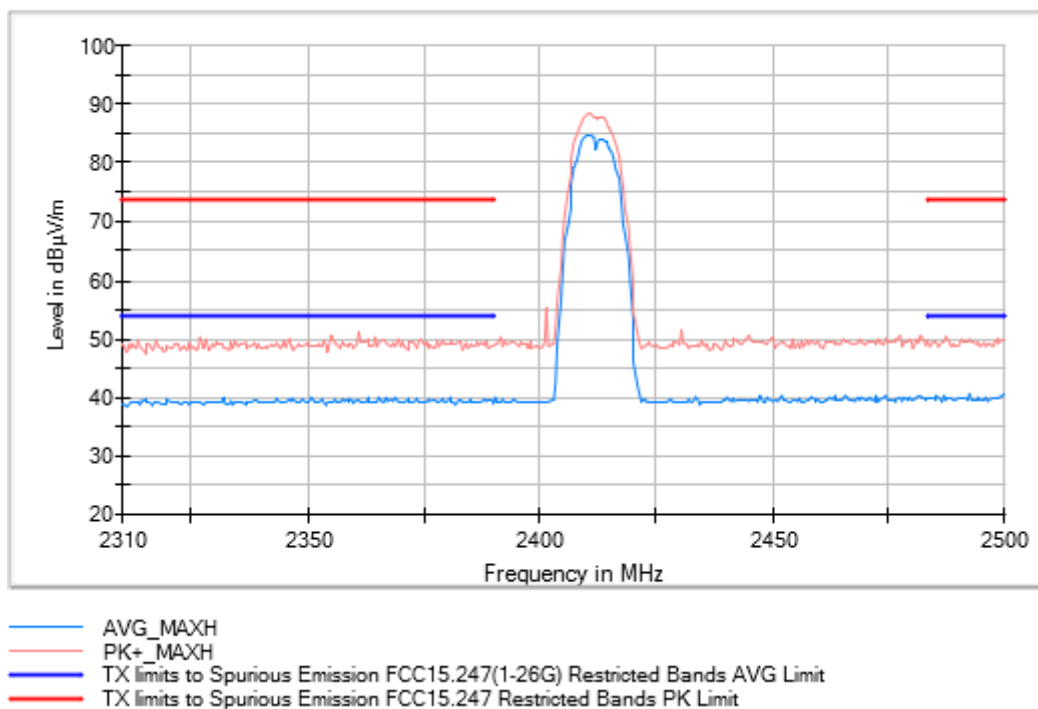
Modulation = 802.11b (DSSS 1 Mbit/s)

Images:

RF_FCC_15.247_E Field_1GHz_18GHz_HPF(SAC2)



Copy of RF_FCC_15.247_E Field_1GHz_18GHz_HPF(SAC2)



Tables:
Spectrum Analyzer Parameters

Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
1 GHz - 3 GHz	500 kHz	PK+ ; RMS	1 MHz	0.1 s	20 dB
3 GHz - 18 GHz	500 kHz	PK+ ; RMS	1 MHz	0.1 s	20 dB

Operation Band MHz = [2400, 2483.5]

Frequency Range GHz = [1, 18]

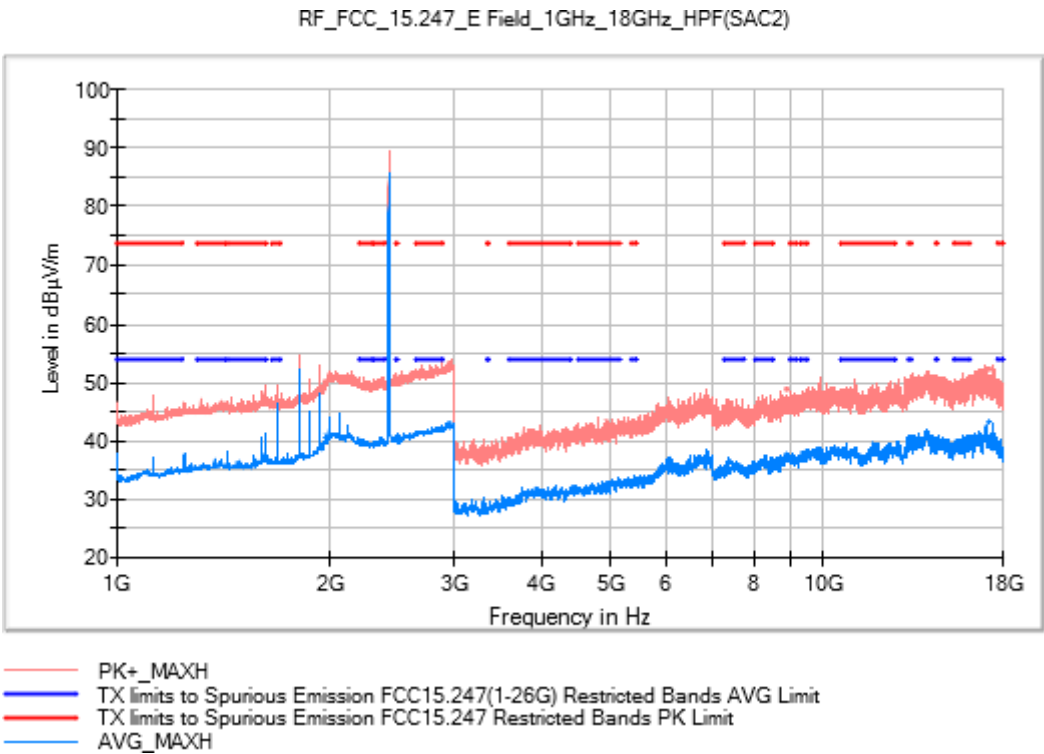
Equipment Type = Digital Transmission System (DTS)

Frequency MHz = 2437.00000

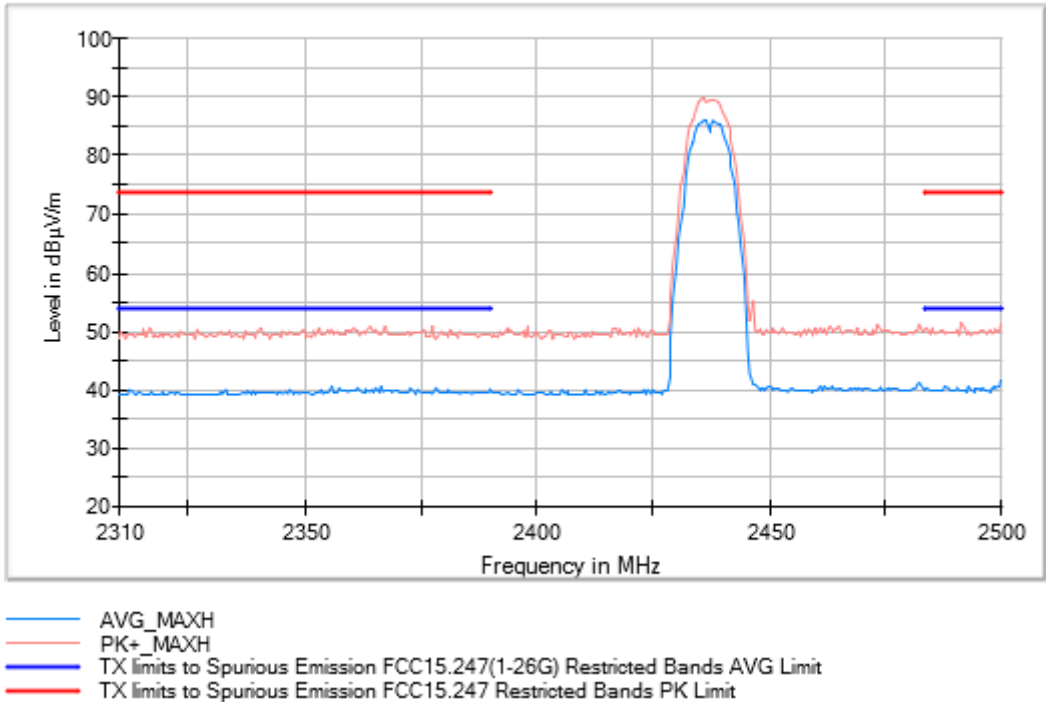
Active Port = 1

Modulation = 802.11b (DSSS 1 Mbit/s)

Images:



Copy of RF_FCC_15.247_E Field_1GHz_18GHz_HPF(SAC2)



Tables:
Spectrum Analyzer Parameters

Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
1 GHz - 3 GHz	500 kHz	PK+ ; RMS	1 MHz	0.1 s	20 dB
3 GHz - 18 GHz	500 kHz	PK+ ; RMS	1 MHz	0.1 s	20 dB

Operation Band MHz = [2400, 2483.5]

Frequency Range GHz = [1, 18]

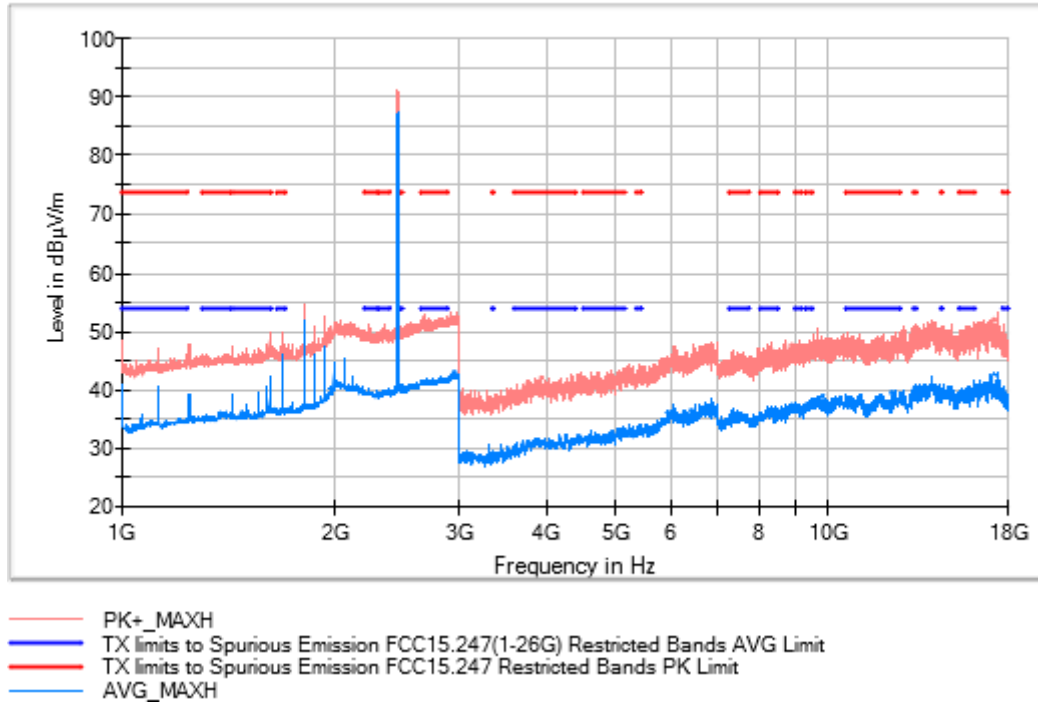
Equipment Type = Digital Transmission System (DTS) Frequency MHz = 2462.00000

Active Port = 1

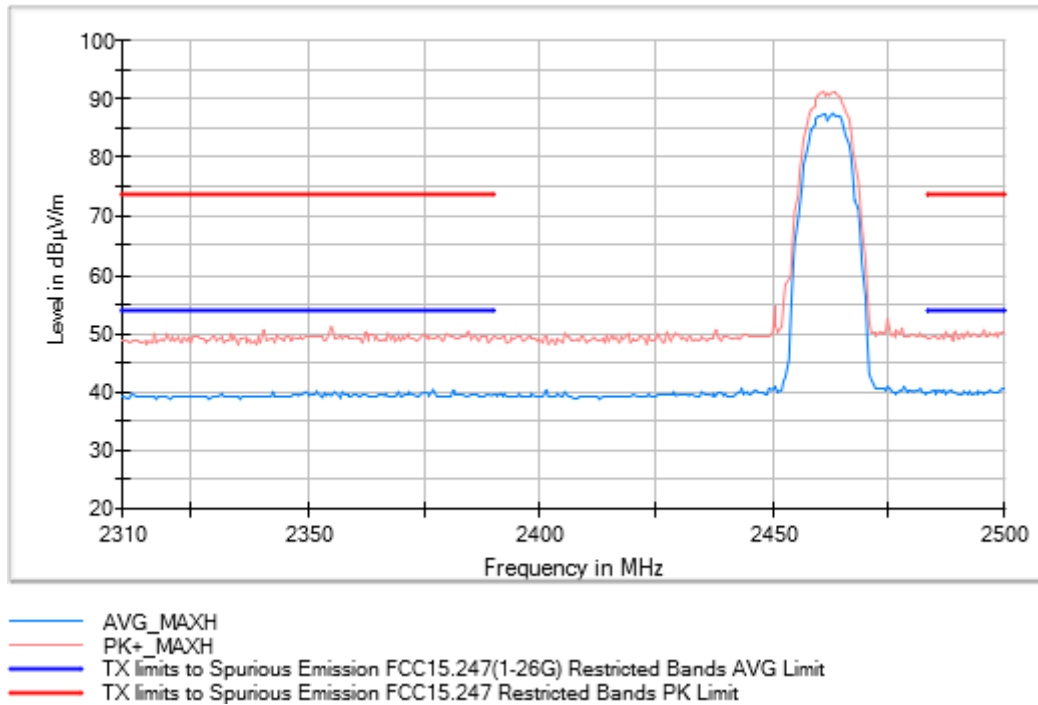
Modulation = 802.11b (DSSS 1 Mbit/s)

Images:

RF_FCC_15.247_E Field_1GHz_18GHz_HPF(SAC2)



Copy of RF_FCC_15.247_E Field_1GHz_18GHz_HPF(SAC2)



Tables:
Spectrum Analyzer Parameters

Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
1 GHz - 3 GHz	500 kHz	PK+ ; RMS	1 MHz	0.1 s	20 dB
3 GHz - 18 GHz	500 kHz	PK+ ; RMS	1 MHz	0.1 s	20 dB

Operation Band MHz = [2400, 2483.5]

Frequency Range GHz = [18, 26]

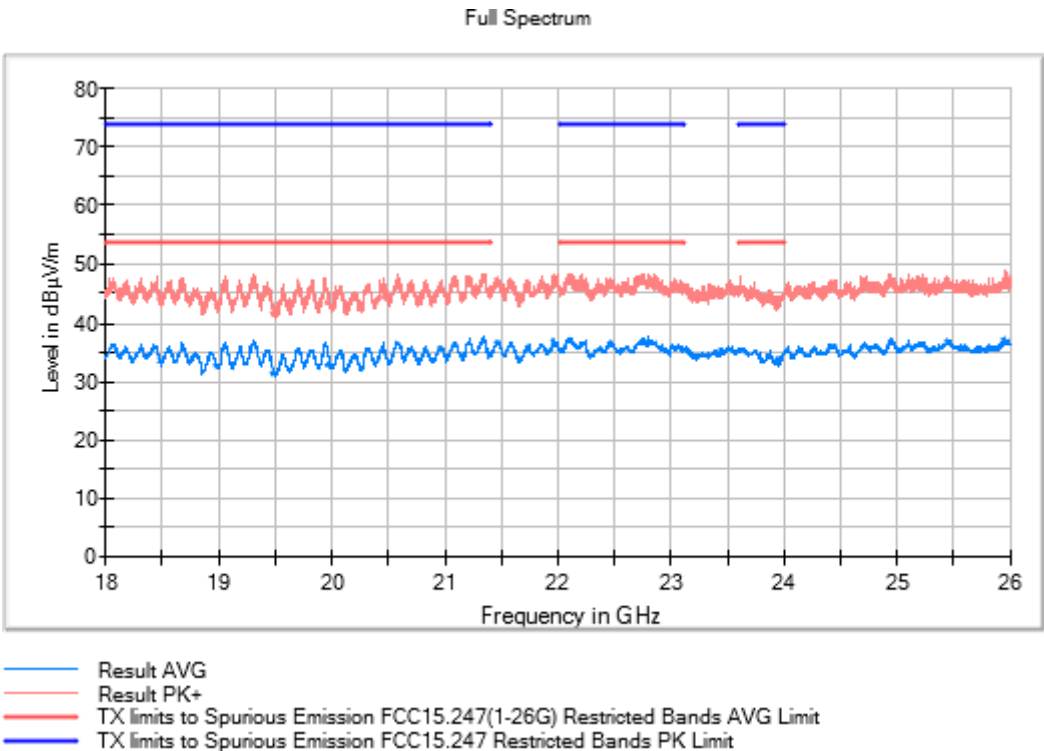
Equipment Type = Digital Transmission System (DTS)

Frequency MHz = 2412.00000

Active Port = 1

Modulation = 802.11b (DSSS 1 Mbit/s)

Images:



Tables:
Spectrum Analyzer Parameters

Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
18 GHz - 26 GHz	500 kHz	PK+ ; AVG	1 MHz	1 s	20 dB

Operation Band MHz = [2400, 2483.5]

Frequency Range GHz = [18, 26]

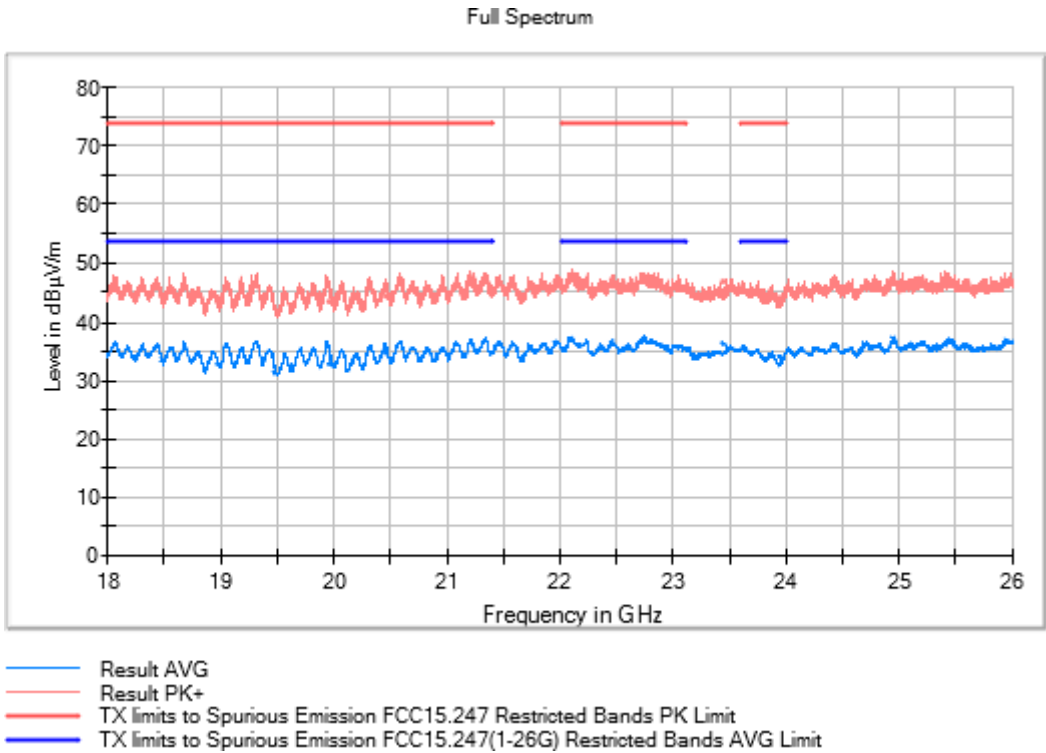
Equipment Type = Digital Transmission System (DTS)

Frequency MHz = 2437.00000

Active Port = 1

Modulation = 802.11b (DSSS 1 Mbit/s)

Images:



Tables:

Spectrum Analyzer Parameters

Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
18 GHz - 26 GHz	500 kHz	PK+ ; AVG	1 MHz	1 s	20 dB

Operation Band MHz = [2400, 2483.5]

Frequency Range GHz = [18, 26]

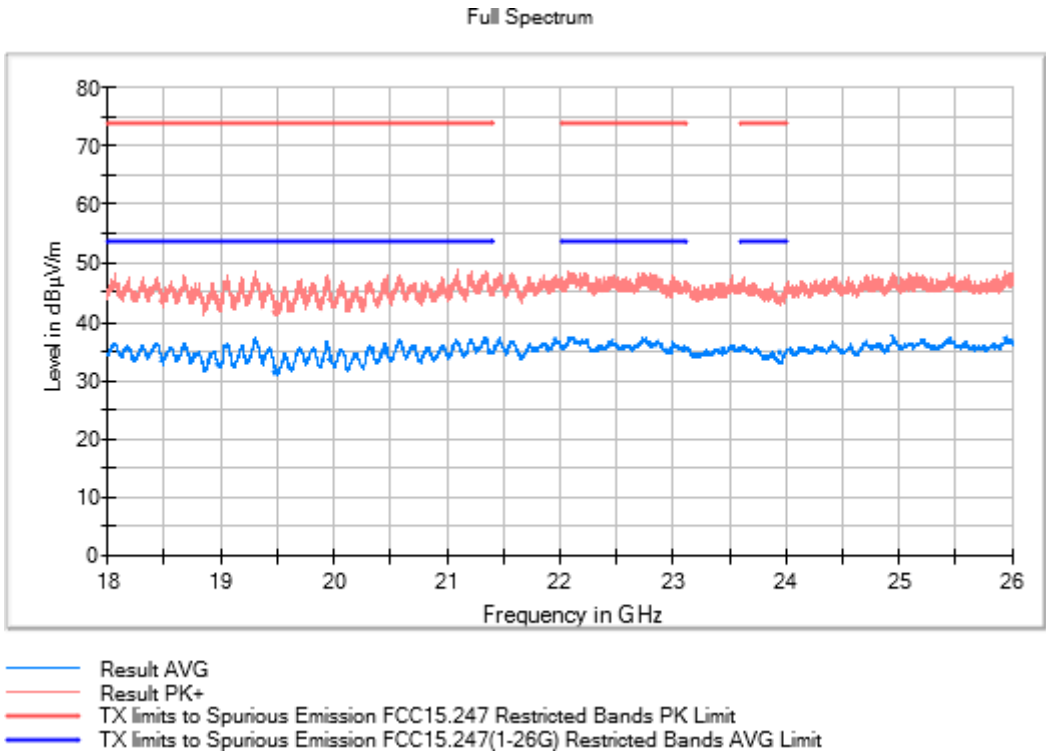
Equipment Type = Digital Transmission System (DTS)

Frequency MHz = 2462.00000

Active Port = 1

Modulation = 802.11b (DSSS 1 Mbit/s)

Images:



Tables:

Spectrum Analyzer Parameters

Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
18 GHz - 26 GHz	500 kHz	PK+ ; AVG	1 MHz	1 s	20 dB

Modulation: 802.11g (OFDM 6 Mbit/s)

Results

Operation Band (MHz)	Freq Rng (GHz)	Equipment	Freq (MHz)	Port	Unwanted Freq (MHz)	Unwanted Lvl (dBµV/m)	Pol	Detector
[2400, 2483.5]	[1, 18]	Digital Transmission System (DTS)	2412.00000	1	13370.500	40.60	V	AVG
			2412.00000		1687.500	46.30	V	AVG
			2412.00000		2407.000	82.30	H	AVG
			2437.00000		15610.000	40.40	H	AVG
			2437.00000		1687.500	46.20	V	AVG
			2437.00000		2438.500	83.40	H	AVG
			2462.00000		11864.000	38.40	V	AVG
			2462.00000		1687.500	47.00	V	AVG
			2462.00000		2456.500	84.50	H	AVG
	[18, 26]		2412.00000		18424.000	48.67	V	PK

Operation Band (MHz)	Freq Rng (GHz)	Equipment	Freq (MHz)	Port	Unwanted Freq (MHz)	Unwanted Lvl (dBµV/m)	Pol	Detector
			2412.00000		19315.500	37.13	H	AVG
			2412.00000		20071.500	48.48	H	PK
			2412.00000		20574.000	37.13	V	AVG
			2412.00000		21316.000	37.86	V	AVG
			2412.00000		21325.500	49.09	V	PK
			2412.00000		22099.000	37.75	H	AVG
			2412.00000		22110.000	49.16	H	PK
			2412.00000		23615.000	36.69	H	AVG
			2412.00000		23744.500	48.25	V	PK
			2437.00000		18674.500	48.34	V	PK
			2437.00000		19310.000	37.06	V	AVG
			2437.00000		19946.500	48.51	H	PK
			2437.00000		20576.000	36.94	H	AVG
			2437.00000		21338.000	48.87	V	PK
			2437.00000		21340.000	37.28	H	AVG
			2437.00000		22073.500	49.23	H	PK
			2437.00000		22120.500	37.64	V	AVG
			2437.00000		23623.500	47.35	H	PK
			2437.00000		23627.000	35.99	H	AVG
			2462.00000		18422.000	48.19	H	PK
			2462.00000		19306.500	36.99	V	AVG
			2462.00000		19945.000	48.95	H	PK
			2462.00000		20581.000	37.07	H	AVG
			2462.00000		21060.500	48.69	V	PK
			2462.00000		21345.500	37.54	H	AVG
			2462.00000		22102.000	37.46	V	AVG
			2462.00000		23639.000	35.94	H	AVG
			2462.00000		23871.000	47.18	H	PK

Verdict

Pass

Attachments

Operation Band MHz = [2400, 2483.5]

Frequency Range GHz = [1, 18]

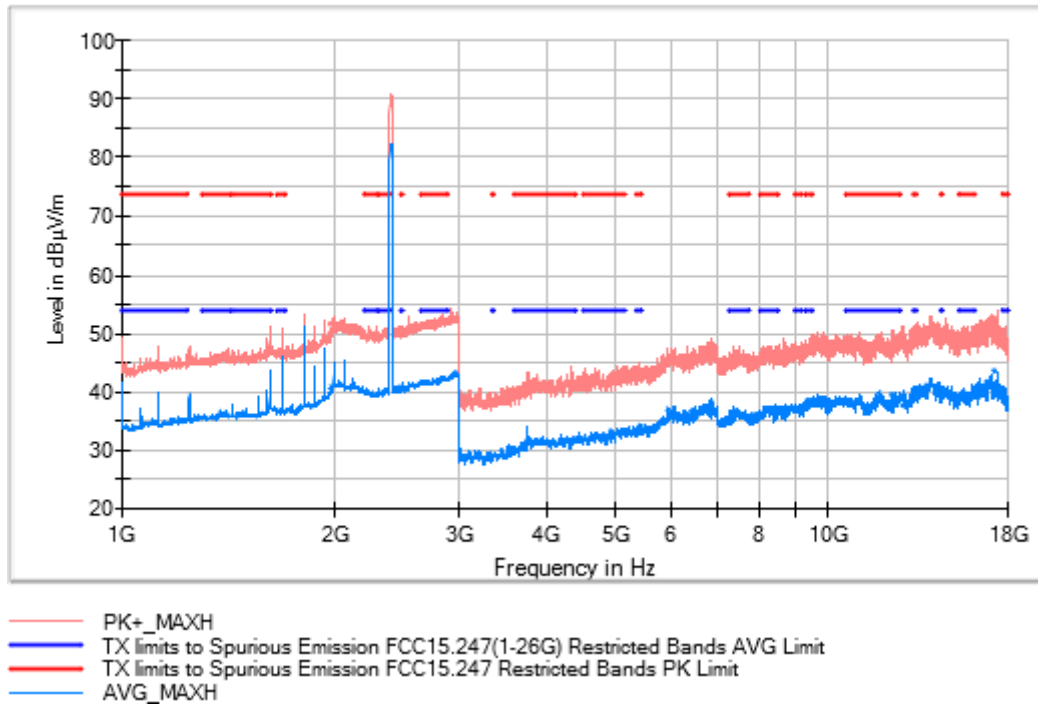
Equipment Type = Digital Transmission System (DTS) Frequency MHz = 2412.00000

Active Port = 1

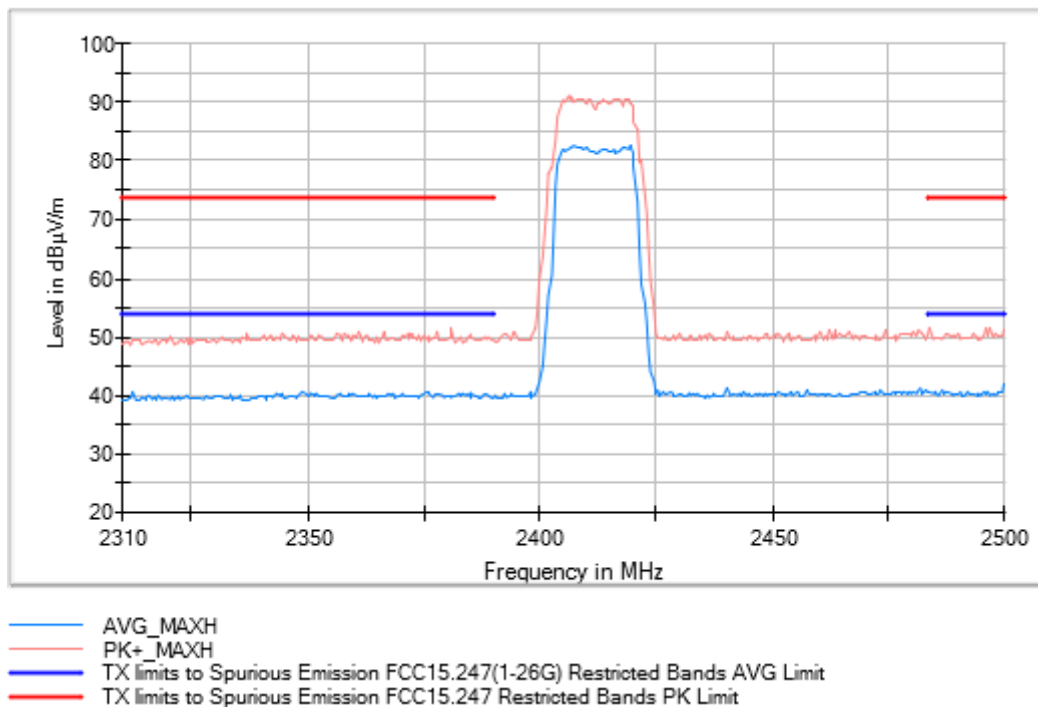
Modulation = 802.11g (OFDM 6 Mbit/s)

Images:

RF_FCC_15.247_E Field_1GHz_18GHz_HPF(SAC2)



Copy of RF_FCC_15.247_E Field_1GHz_18GHz_HPF(SAC2)

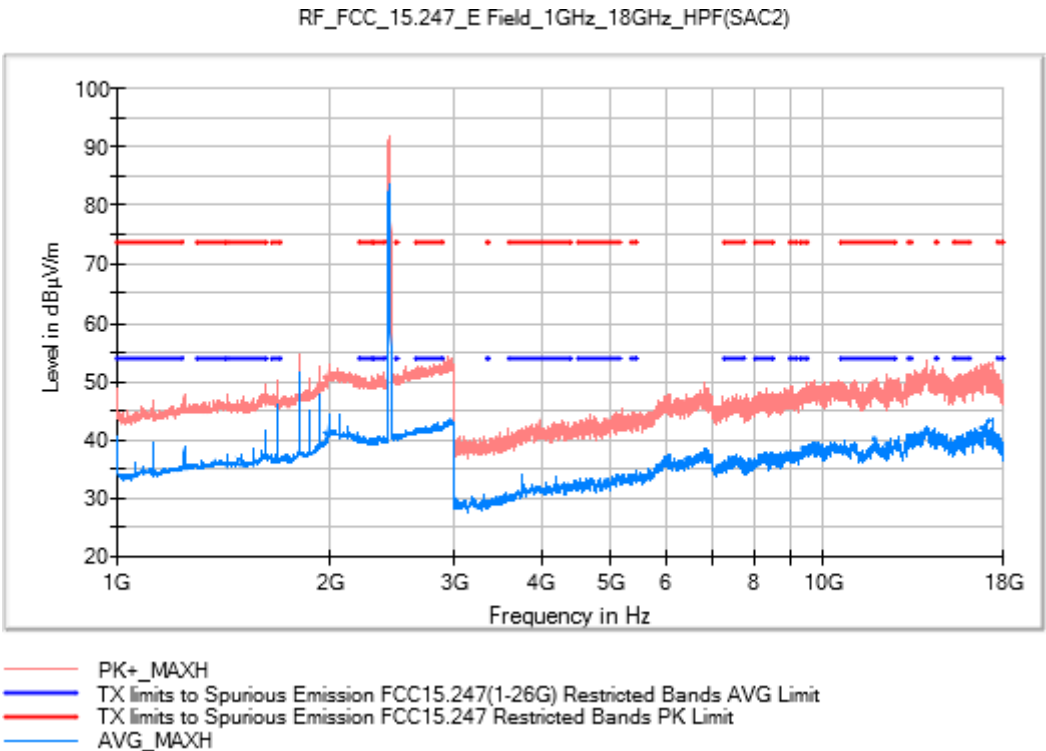


Tables:
Spectrum Analyzer Parameters

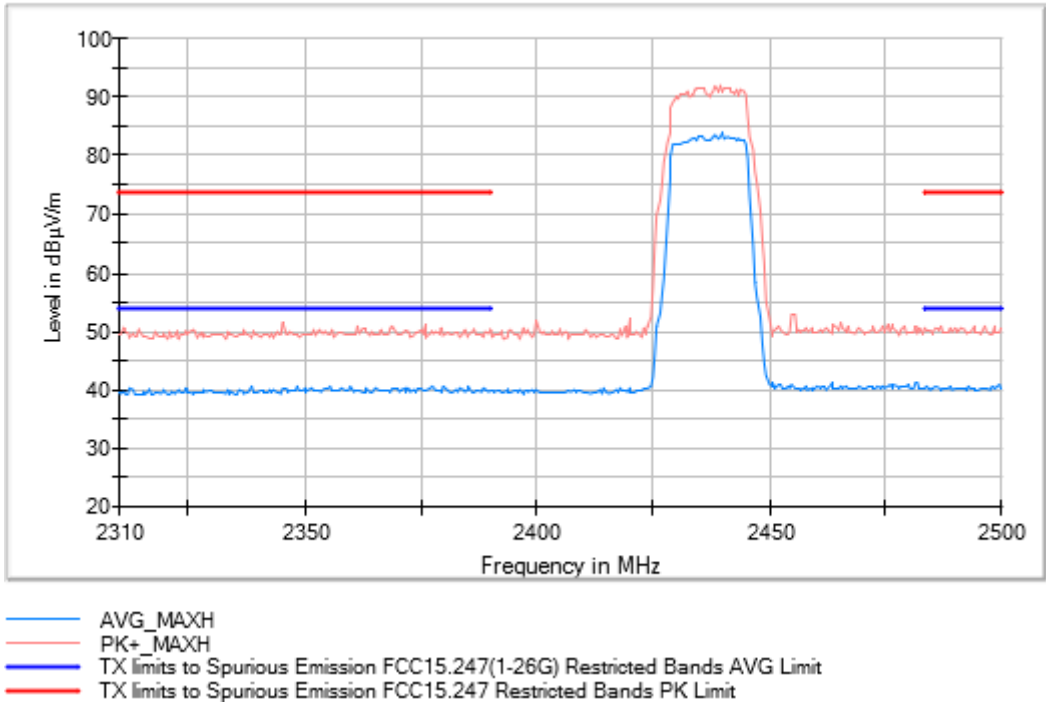
Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
1 GHz - 3 GHz	500 kHz	PK+ ; RMS	1 MHz	0.1 s	20 dB
3 GHz - 18 GHz	500 kHz	PK+ ; RMS	1 MHz	0.1 s	20 dB

Operation Band MHz = [2400, 2483.5] Frequency Range GHz = [1, 18]
Equipment Type = Digital Transmission System (DTS) Frequency MHz = 2437.00000
Active Port = 1 Modulation = 802.11g (OFDM 6 Mbit/s)

Images:



Copy of RF_FCC_15.247_E Field_1GHz_18GHz_HPF(SAC2)



Tables:
Spectrum Analyzer Parameters

Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
1 GHz - 3 GHz	500 kHz	PK+ ; RMS	1 MHz	0.1 s	20 dB
3 GHz - 18 GHz	500 kHz	PK+ ; RMS	1 MHz	0.1 s	20 dB

Operation Band MHz = [2400, 2483.5]

Frequency Range GHz = [1, 18]

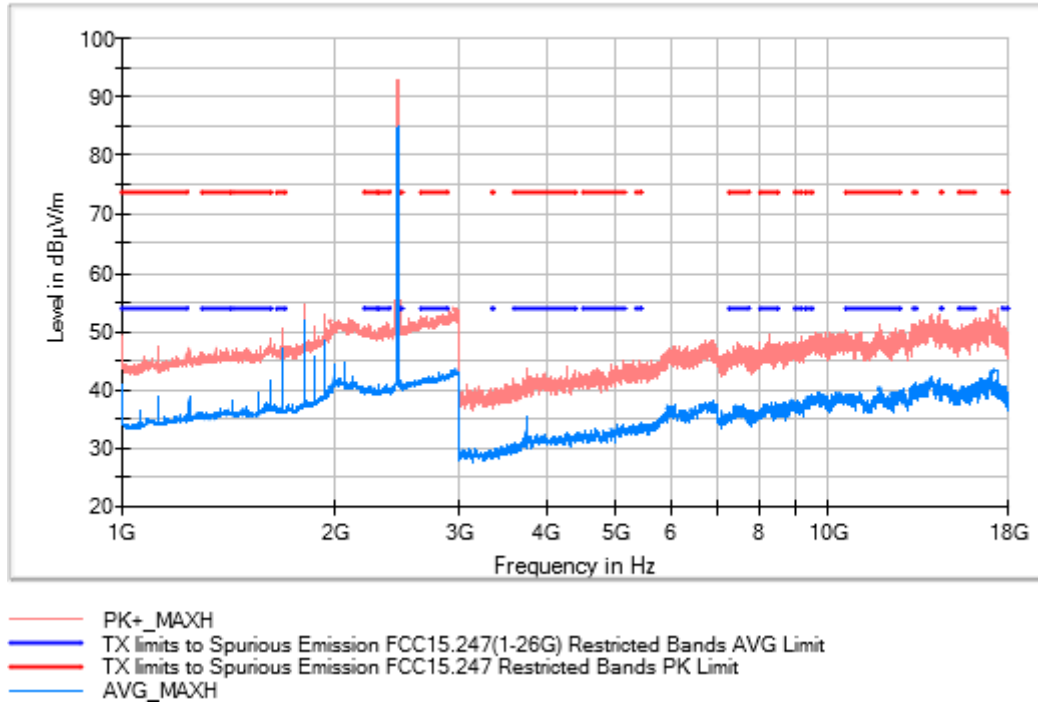
Equipment Type = Digital Transmission System (DTS) Frequency MHz = 2462.00000

Active Port = 1

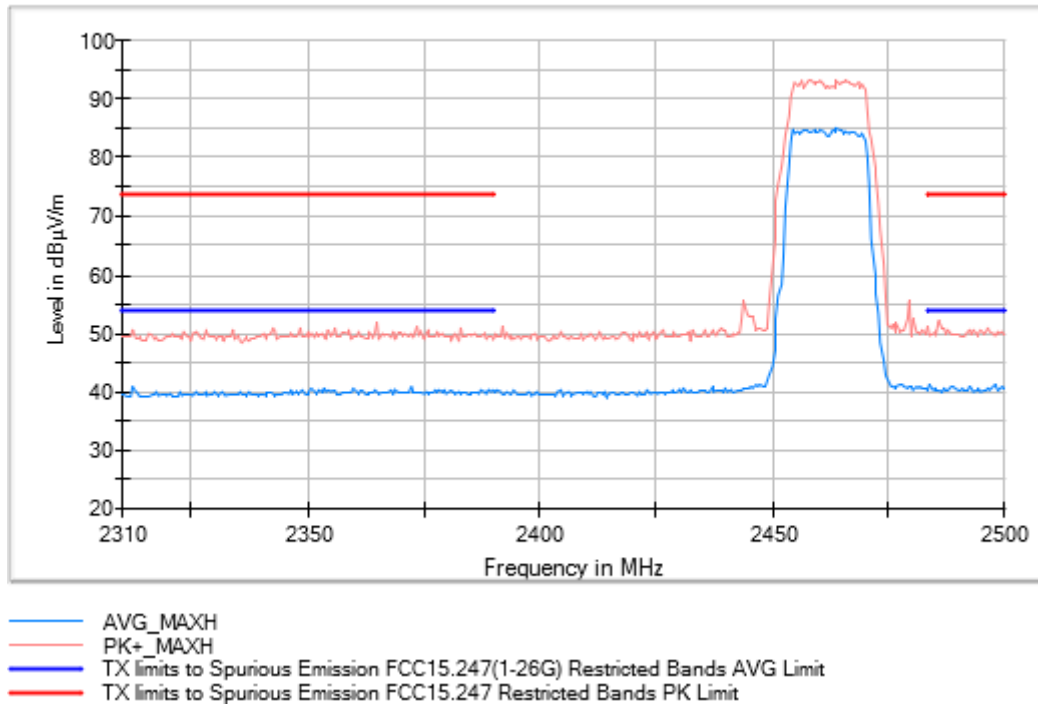
Modulation = 802.11g (OFDM 6 Mbit/s)

Images:

RF_FCC_15.247_E Field_1GHz_18GHz_HPF(SAC2)



Copy of RF_FCC_15.247_E Field_1GHz_18GHz_HPF(SAC2)



Tables:
Spectrum Analyzer Parameters

Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
1 GHz - 3 GHz	500 kHz	PK+ ; RMS	1 MHz	0.1 s	20 dB
3 GHz - 18 GHz	500 kHz	PK+ ; RMS	1 MHz	0.1 s	20 dB

Operation Band MHz = [2400, 2483.5]

Frequency Range GHz = [18, 26]

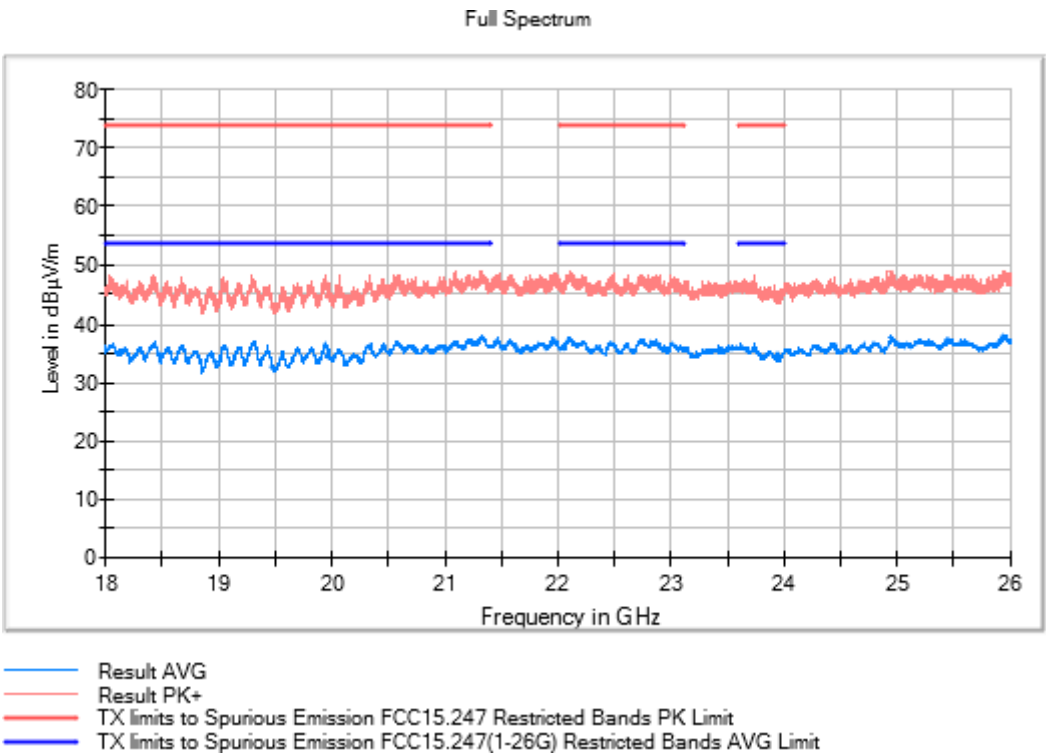
Equipment Type = Digital Transmission System (DTS)

Frequency MHz = 2412.00000

Active Port = 1

Modulation = 802.11g (OFDM 6 Mbit/s)

Images:



Tables:
Spectrum Analyzer Parameters

Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
18 GHz - 26 GHz	500 kHz	PK+ ; AVG	1 MHz	1 s	20 dB

Operation Band MHz = [2400, 2483.5]

Frequency Range GHz = [18, 26]

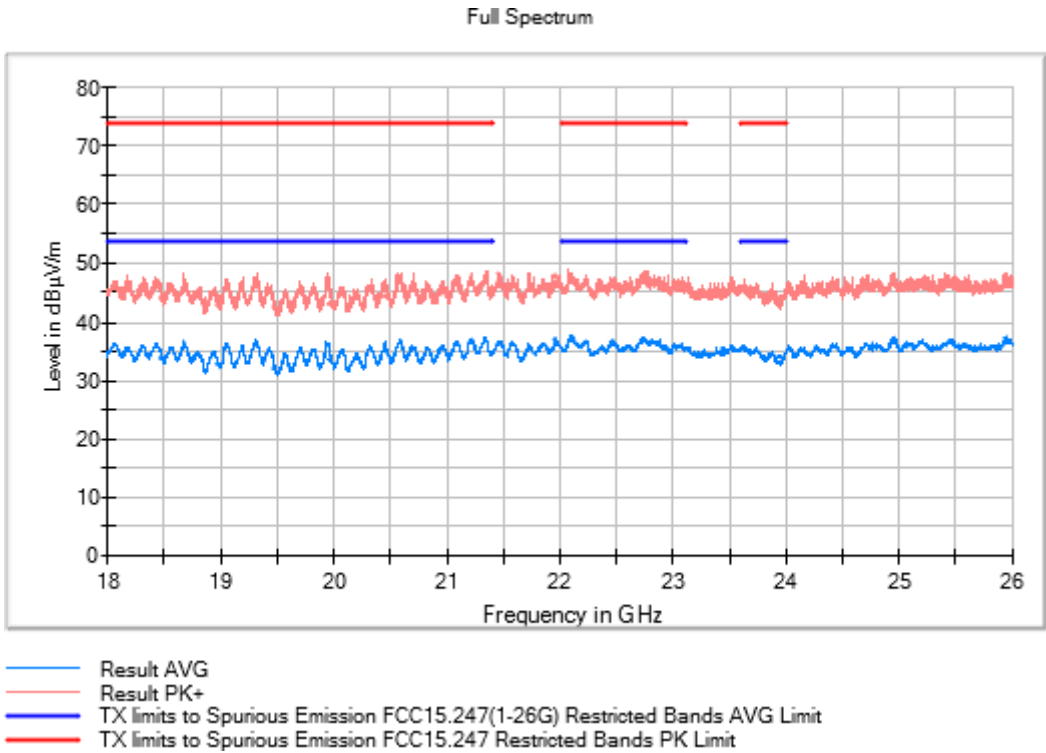
Equipment Type = Digital Transmission System (DTS)

Frequency MHz = 2437.00000

Active Port = 1

Modulation = 802.11g (OFDM 6 Mbit/s)

Images:



Tables:

Spectrum Analyzer Parameters

Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
18 GHz - 26 GHz	500 kHz	PK+ ; AVG	1 MHz	1 s	20 dB

Operation Band MHz = [2400, 2483.5]

Frequency Range GHz = [18, 26]

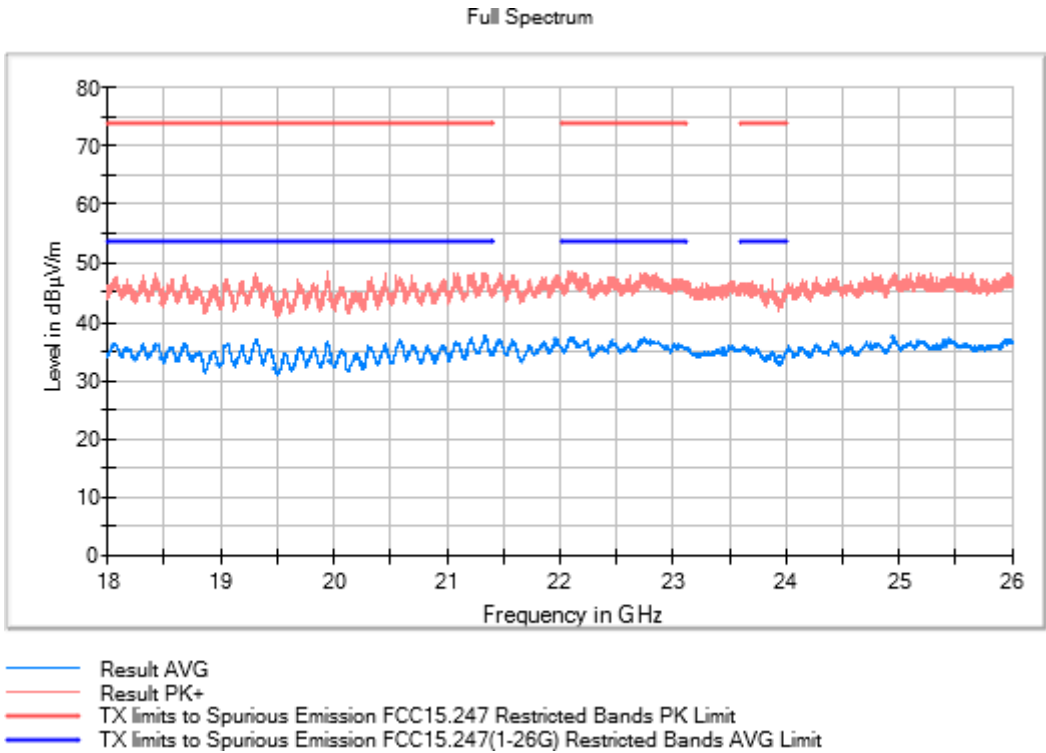
Equipment Type = Digital Transmission System (DTS)

Frequency MHz = 2462.00000

Active Port = 1

Modulation = 802.11g (OFDM 6 Mbit/s)

Images:



Tables:

Spectrum Analyzer Parameters

Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
18 GHz - 26 GHz	500 kHz	PK+ ; AVG	1 MHz	1 s	20 dB