427 West 12800 South
Draper, UT 84020

Test Report Attachment

FCC ID	SWX-UX7SP
ISED ID	6545A-UX7SP
Equipment Under Test	UX7-SP
Test Report Serial Number	TR10043_01
Date of Tests	11 June 2025
Report Issue Date	12 June 2025

Test Personnel

Testing performed by	Tyler Parry

Test Location

Testing was performed at the Unified Compliance Laboratory located at 427 West 12800 South, Draper, UT 84020. Unified Compliance Laboratory is accredited by National Voluntary Laboratory Accreditation Program (NVLAP); NVLAP Code 600241-0 which is effective until 30 June 2025. This site has also been registered with Innovations, Science and Economic Development (ISED) department as was accepted under Appendix B, Phase 1 procedures of the APEC Tel MRA for Canadian recognition. ISED No.: 25346, effective until 30 June 2025. Unified Compliance Laboratory has been assigned Conformity Assessment Number US0223 by ISED and MRA US5037.

NVLAP LAB CODE 600241-0

1 RF Conducted BLE

NOTE: The first channel contains the equipment setting table(s), if subsequent channels do not have an equipment setting table(s) then the equipment setting table(s) is the same as the first channel.

1.1 RF Conducted

Summary

Test	Frequency (MHz)	Nominal Power (dBm)	Nominal Bandwidth (MHz)	Result
RF output power	2402.000	15.0	1.000000	PASS
Minimum Emission Bandwidth 6 dB	2402.000	15.0	1.000000	PASS
Peak Power Spectral Density	2402.000	15.0	1.000000	PASS
Occupied Channel Bandwidth 99%	2402.000	15.0	1.000000	PASS
Band Edge low	2402.000	15.0	1.000000	PASS
Tx Spurious Emission	2402.000	15.0	1.000000	PASS
Emissions in restricted frequency bands (Average)	2402.000	15.0	1.000000	PASS
Minimum Emission Bandwidth 6 dB	2442.000	15.0	1.000000	PASS
Peak Power Spectral Density	2442.000	15.0	1.000000	PASS
Occupied Channel Bandwidth 99%	2442.000	15.0	1.000000	PASS
Tx Spurious Emission	2442.000	15.0	1.000000	PASS
Emissions in restricted frequency bands (Average)	2442.000	15.0	1.000000	PASS
Minimum Emission Bandwidth 6 dB	2480.000	15.0	1.000000	PASS
Peak Power Spectral Density	2480.000	15.0	1.000000	PASS
Occupied Channel Bandwidth 99%	2480.000	15.0	1.000000	PASS
Band Edge high	2480.000	15.0	1.000000	PASS
Tx Spurious Emission	2480.000	15.0	1.000000	PASS
Emissions in restricted frequency bands (Average)	2480.000	15.0	1.000000	PASS

RF output power (2402 MHz; 15.000 dBm; 1 MHz)

Customized settings.

Result

DUT Frequency (MHz)	Gated RMS (dBm)	Limit Max (dBm)	Gated EIRP (dBm)	DutyCycle (%)	Result
2402.000000	5.4	30.0	5.4	62.649	PASS

OSP PowerMeter settings

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

Minimum Emission Bandwidth 6 dB (2402 MHz; 15.000 dBm; 1 MHz)

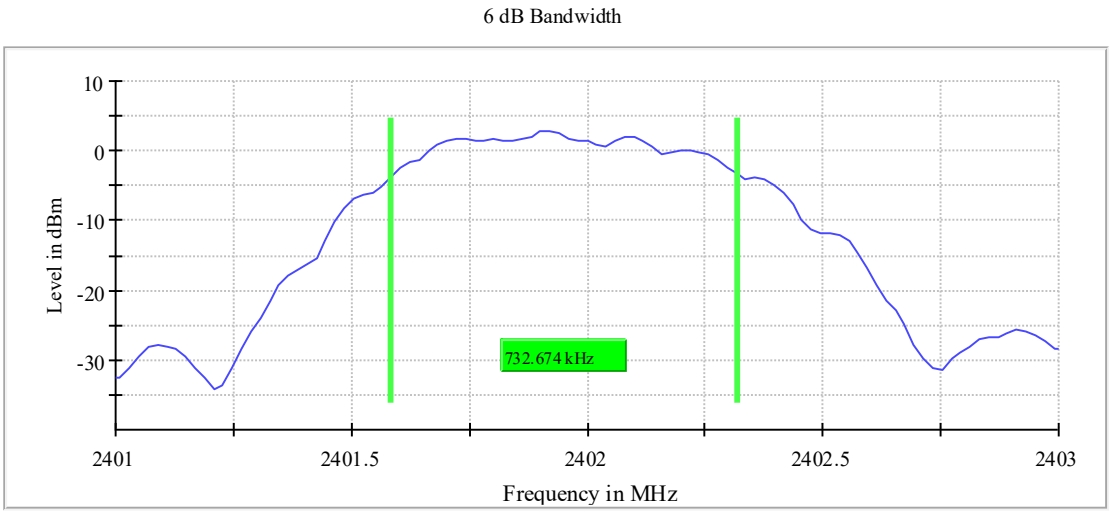
Customized settings.

6 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2402.000000	0.732674	0.500000	---	2401.584158	2402.316832

(continuation of the "6 dB Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
2402.000000	2.8	PASS



Bandwidth

Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.40100 GHz	2.40100 GHz
Stop Frequency	2.40300 GHz	2.40300 GHz
Span	2.000 MHz	2.000 MHz
RBW	100.000 kHz	~ 100.000 kHz
VBW	300.000 kHz	~ 300.000 kHz
SweepPoints	101	~ 40
Sweeptime	18.938 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

Peak Power Spectral Density (2402 MHz; 15.000 dBm; 1 MHz)

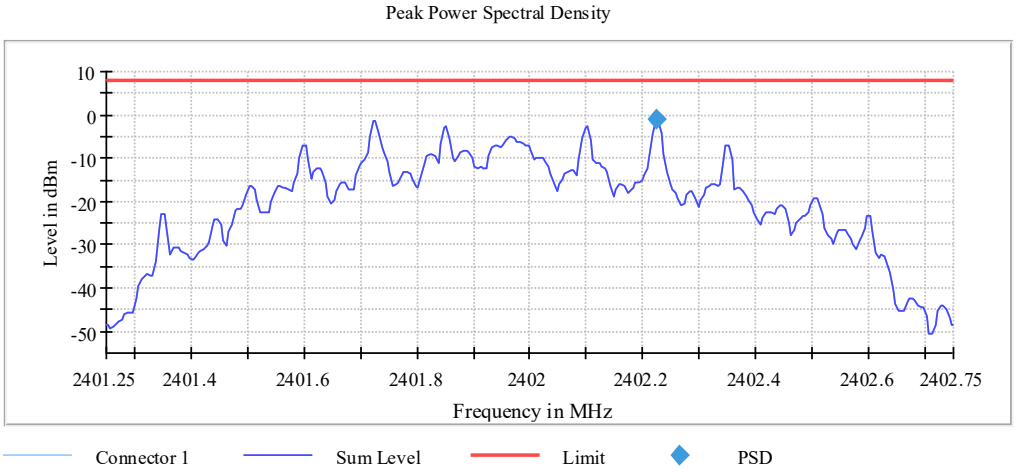
Customized settings.

Result

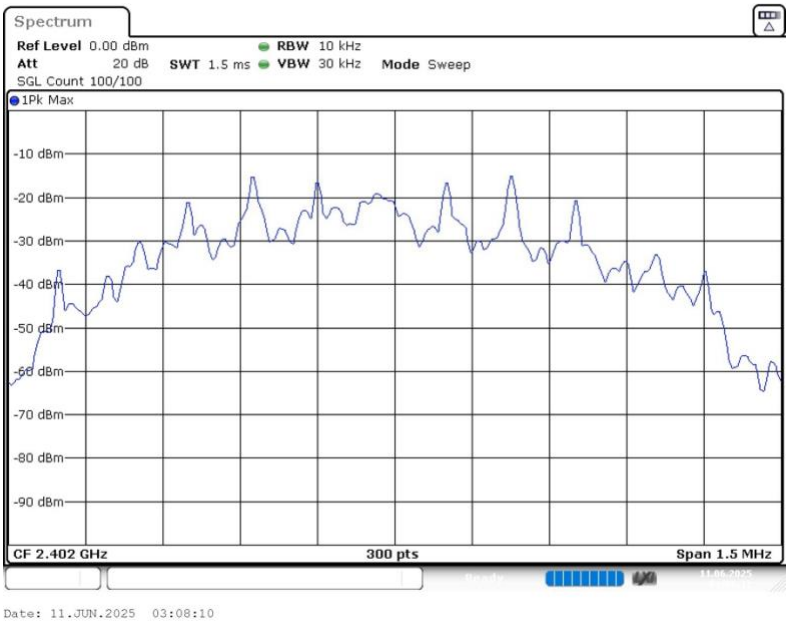
DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
2402.000000	2402.222500	-1.123	8.0	PASS

Ports

Port	State
1	used



PSD Connector 1



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.40125 GHz	2.40125 GHz
Stop Frequency	2.40275 GHz	2.40275 GHz
Span	1.500 MHz	1.500 MHz
RBW	10.000 kHz	<= 10.000 kHz
VBW	30.000 kHz	>= 30.000 kHz
SweepPoints	300	~ 300
Sweeptime	1.500 ms	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	Sweep	Sweep
Preamp	off	off

Occupied Channel Bandwidth 99% (2402 MHz; 15.000 dBm; 1 MHz)

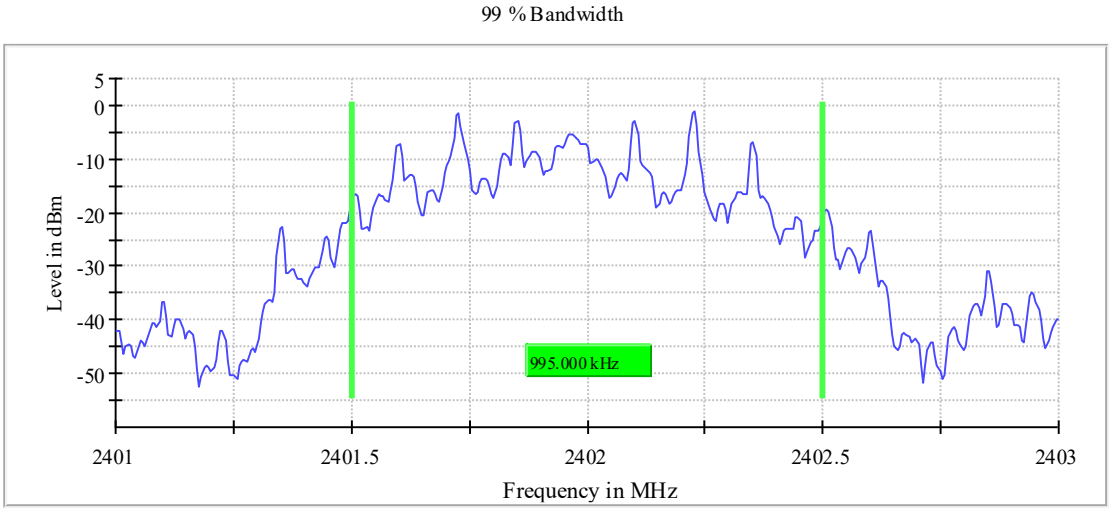
Customized settings.

99 % Bandwidth

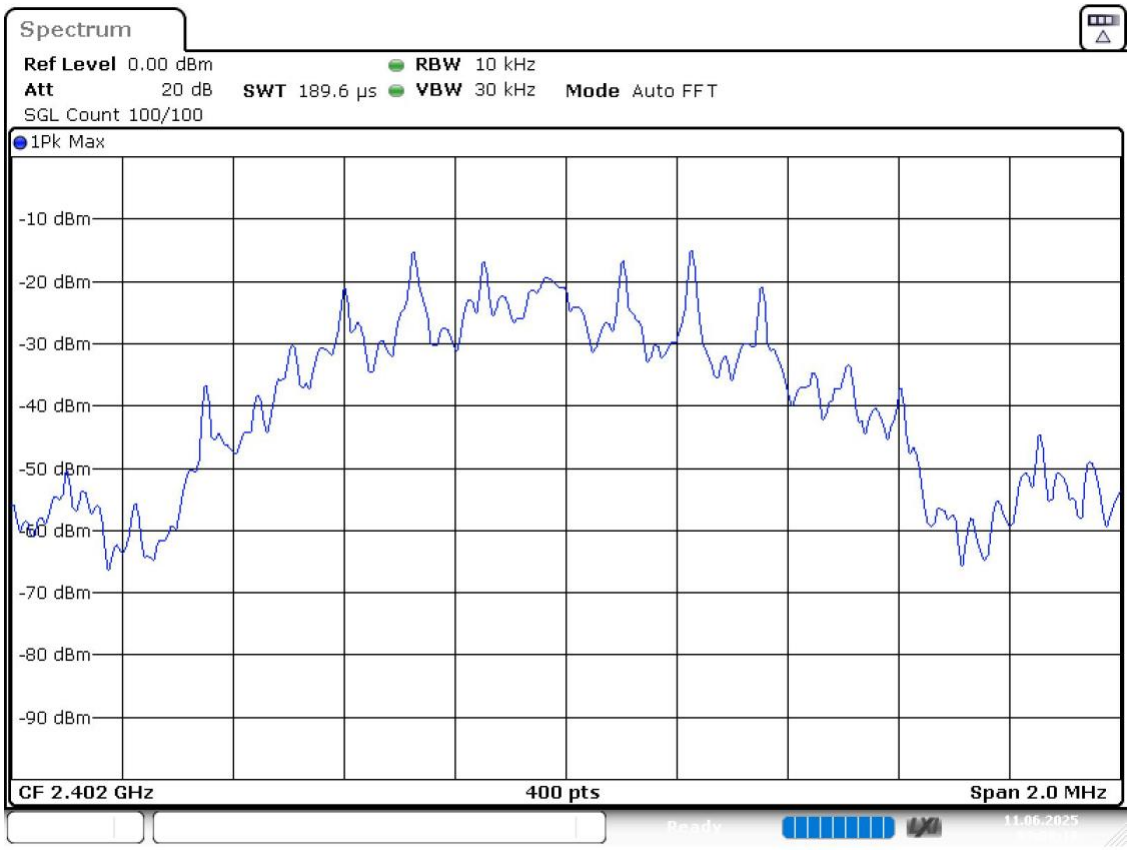
DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2402.000000	0.995000	---	---	2401.502500	2402.497500

(continuation of the "99 % Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Result
2402.000000	PASS



Bandwidth



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Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.40100 GHz	2.40100 GHz
Stop Frequency	2.40300 GHz	2.40300 GHz
Span	2.000 MHz	2.000 MHz
RBW	10.000 kHz	>= 10.000 kHz
VBW	30.000 kHz	>= 30.000 kHz
SweepPoints	400	~ 400
Sweeptime	189.648 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

Band Edge low (2402 MHz; 15.000 dBm; 1 MHz)

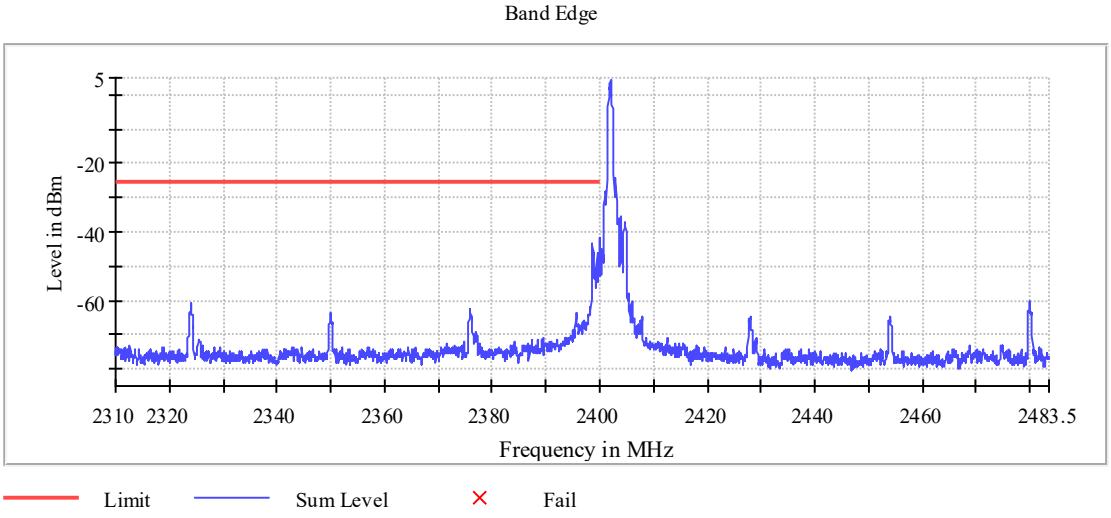
Customized settings.

Result

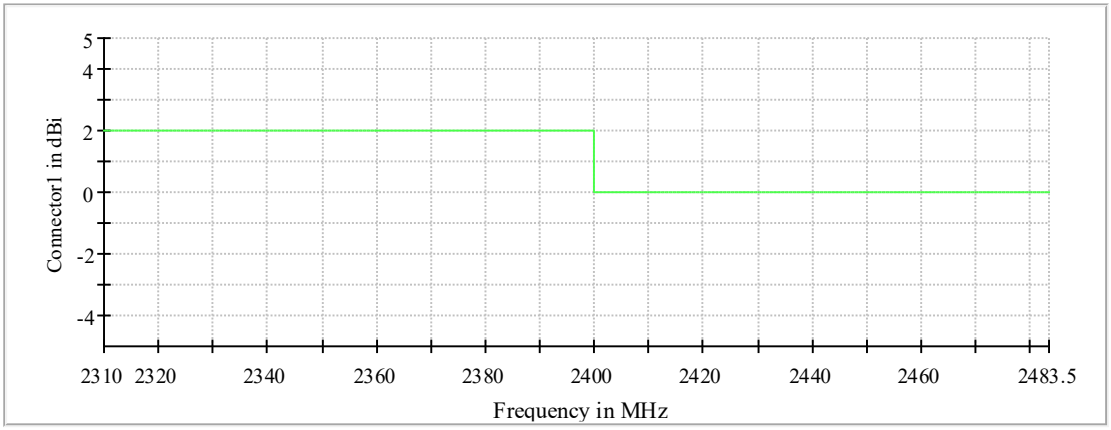
DUT Frequency (MHz)	Result
2402.000000	PASS

Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
2399.975000	-42.0	16.5	-25.4	PASS
2399.925000	-42.4	16.9	-25.4	PASS
2398.675000	-43.4	18.0	-25.4	PASS
2398.725000	-43.8	18.3	-25.4	PASS
2398.625000	-44.0	18.6	-25.4	PASS
2399.875000	-44.5	19.1	-25.4	PASS
2398.775000	-46.1	20.7	-25.4	PASS
2398.875000	-46.2	20.8	-25.4	PASS
2398.925000	-46.2	20.8	-25.4	PASS
2398.575000	-46.2	20.8	-25.4	PASS
2399.525000	-46.3	20.9	-25.4	PASS
2398.825000	-46.5	21.1	-25.4	PASS
2399.475000	-46.8	21.4	-25.4	PASS
2399.575000	-47.2	21.8	-25.4	PASS
2399.825000	-47.8	22.4	-25.4	PASS

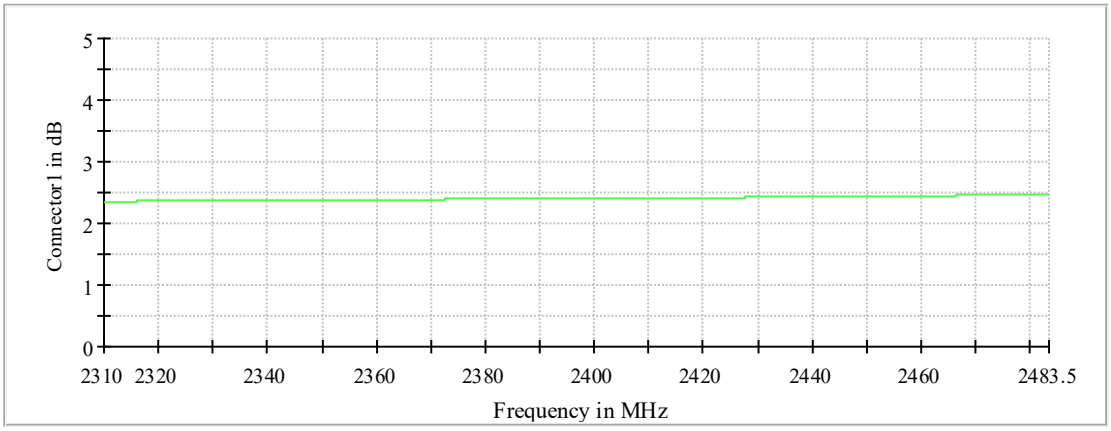


Gain



Connector1

Attenuation



Connector1

Measurement 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	113.672 µs	AUTO
Reference Level	-20.000 dBm	-30.000 dBm
Attenuation	10.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	AUTO
Preamp	off	off

Measurement 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	-20.000 dBm	-30.000 dBm
Attenuation	10.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	AUTO
Preamp	off	off

Tx Spurious Emission (2402 MHz; 15.000 dBm; 1 MHz)

Customized settings.

Result

DUT Frequency (MHz)	Result
2402.000000	PASS

Final measurements

Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result
---	---	---	---	---	---

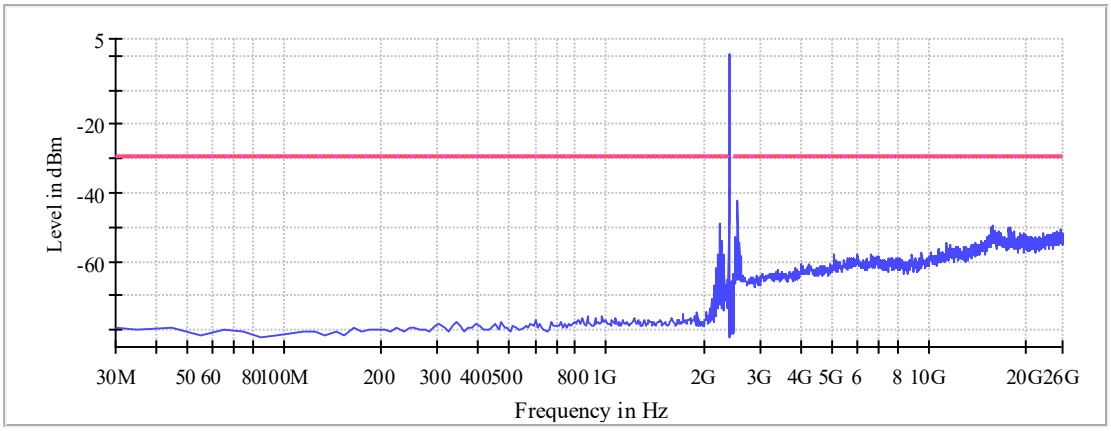
Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
2558.456970	-42.2	12.8	-29.4
2395.021008	-46.8	17.4	-29.4
2245.651261	-49.1	19.7	-29.4
15720.900871	-49.8	20.4	-29.4
15760.877922	-49.9	20.4	-29.4
15810.849235	-49.9	20.5	-29.4
17819.696026	-50.0	20.6	-29.4
15700.912346	-50.1	20.7	-29.4
15730.895134	-50.2	20.7	-29.4
17769.724713	-50.2	20.8	-29.4
15660.935295	-50.3	20.8	-29.4
15690.918083	-50.3	20.8	-29.4
15670.929558	-50.3	20.9	-29.4
15710.906609	-50.4	20.9	-29.4
15740.889397	-50.4	21.0	-29.4

Measurement Settings

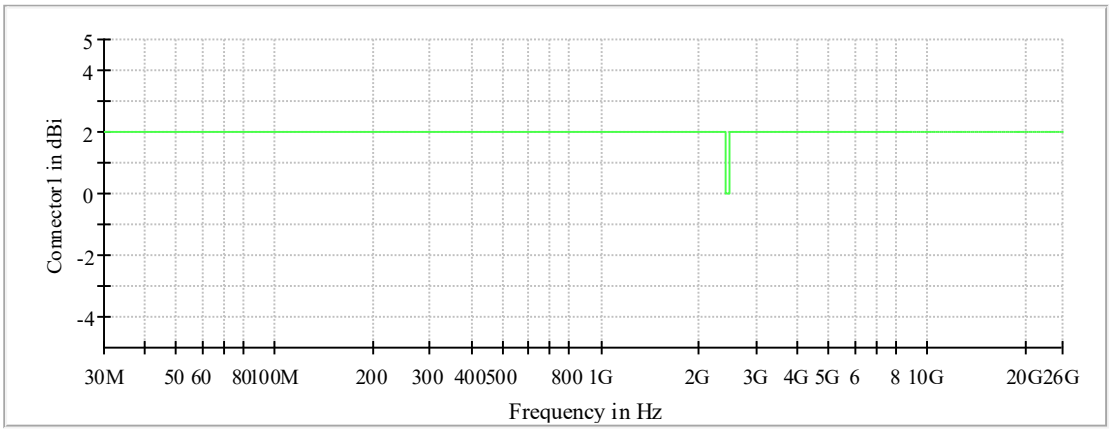
Start Frequency (MHz)	Stop Frequency (MHz)	Pre Measurement	Final Measurement
30.000000	2400.000000	1	1
2400.000000	2483.500000	1	1
2483.500000	26000.000000	1	1

Spurious

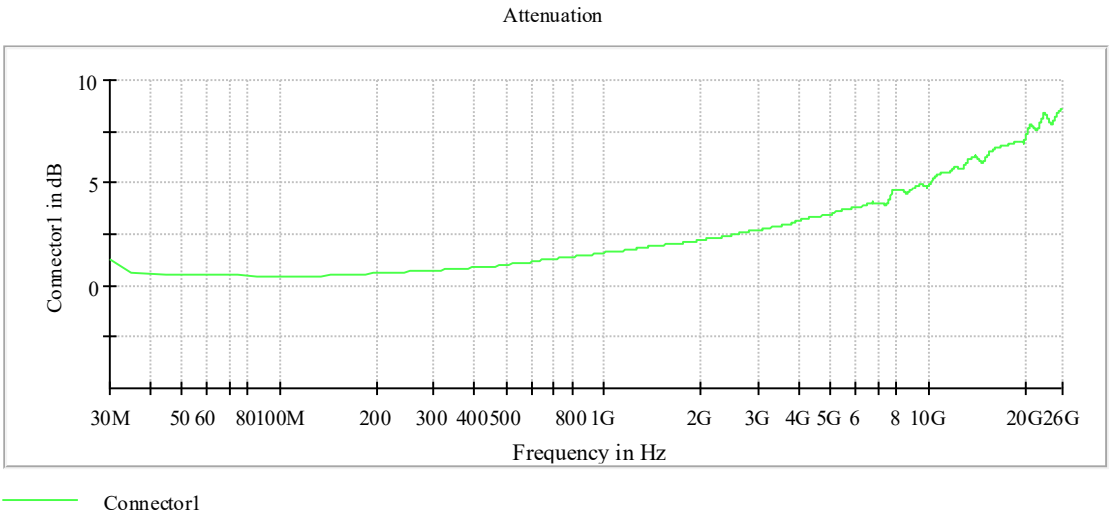


Limit Sum Level Threshold Critical Final Critical

Gain



Connector1



Pre Measurement 1

Setting	Instrument Value	Target Value
RBW	100.000 kHz	<= 100.000 kHz
VBW	300.000 kHz	>= 300.000 kHz
SweepPoints	238	~ 238
Sweeptime	23.700 ms	AUTO
Reference Level	-20.000 dBm	-30.000 dBm
Attenuation	10.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	3	3
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	Sweep	AUTO
Preamp	off	off

Emissions in restricted frequency bands (Average) (2402 MHz; 15.000 dBm; 1 MHz)

Customized settings.

Result

DUT Frequency (MHz)	Result
2402.000000	PASS

Final measurements

Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result
---	---	---	---	---	---

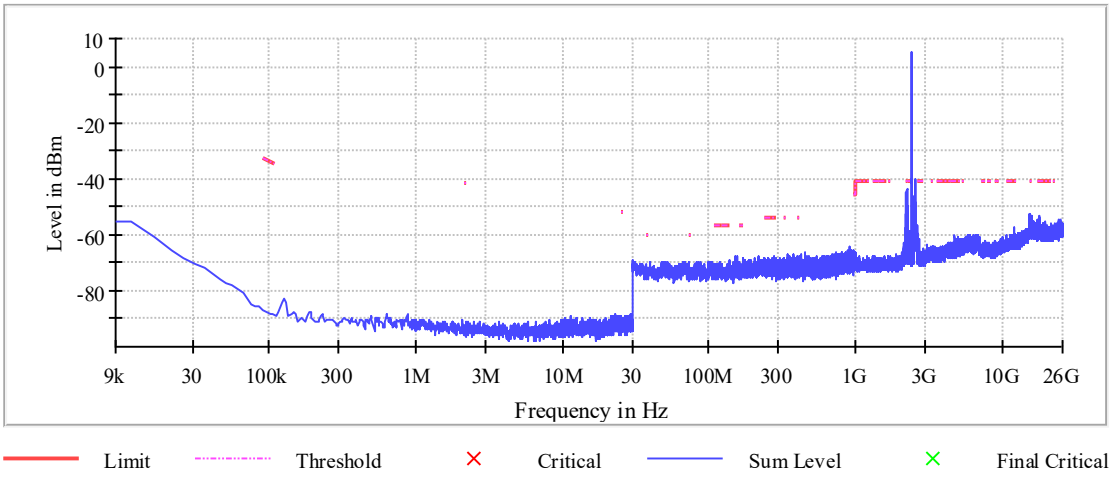
Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
2246.250000	-43.9	2.7	-41.2
2246.750000	-44.5	3.3	-41.2
2245.750000	-45.2	4.0	-41.2
2272.250000	-49.5	8.3	-41.2
2247.250000	-49.9	8.7	-41.2
2272.750000	-50.0	8.8	-41.2
73.475000	-69.9	10.0	-59.9
73.525000	-69.9	10.0	-59.9
2245.250000	-51.3	10.1	-41.2
2271.750000	-51.3	10.1	-41.2
73.675000	-70.5	10.6	-59.9
73.625000	-70.5	10.6	-59.9
2220.250000	-52.4	11.2	-41.2
73.225000	-71.2	11.3	-59.9
15647.995375	-52.6	11.4	-41.2

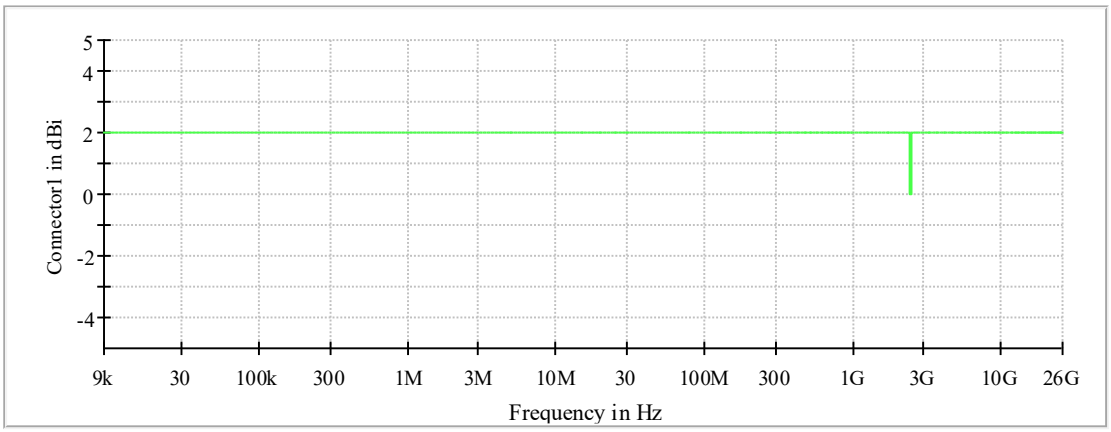
Measurement Settings

Start Frequency (MHz)	Stop Frequency (MHz)	Pre Measurement	Final Measurement
0.009000	30.000000	2	2
30.000000	1000.000000	2	2
1000.000000	7000.000000	1	1
7000.000000	26000.000000	1	1

Restricted Band

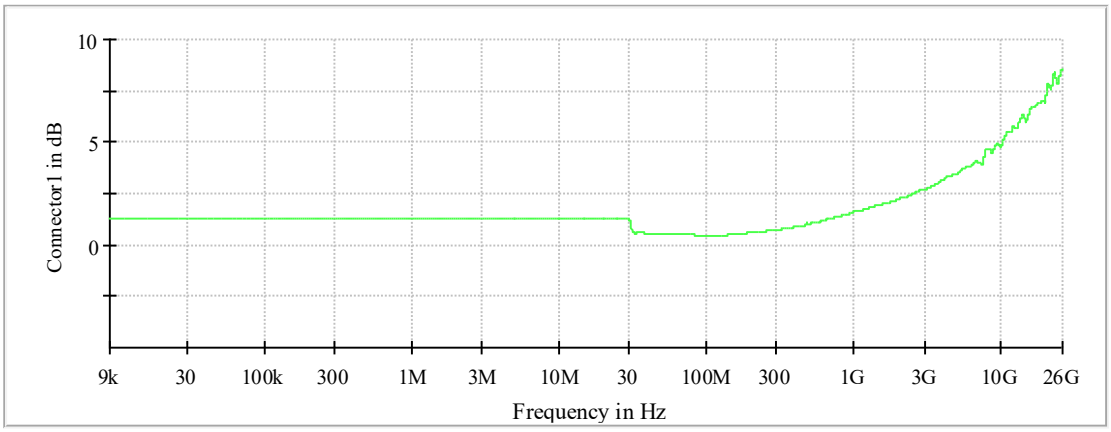


Gain



Connector1

Attenuation



Connector1

Pre Measurement 1

Setting	Instrument Value	Target Value
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	12000	~ 12000
Sweeptime	12.000 ms	AUTO
Reference Level	-20.000 dBm	-30.000 dBm
Attenuation	10.000 dB	AUTO
Detector	Average	Average
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	Sweep	AUTO
Preamp	off	off

Pre Measurement 2

Setting	Instrument Value	Target Value
RBW	10.000 kHz	<= 10.000 kHz
VBW	30.000 kHz	>= 30.000 kHz
SweepPoints	5998	~ 5998
Sweeptime	1.327 ms	AUTO
Reference Level	-20.000 dBm	-30.000 dBm
Attenuation	10.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	30	30
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	AUTO
Preamp	off	off

Minimum Emission Bandwidth 6 dB (2442 MHz; 15.000 dBm; 1 MHz)

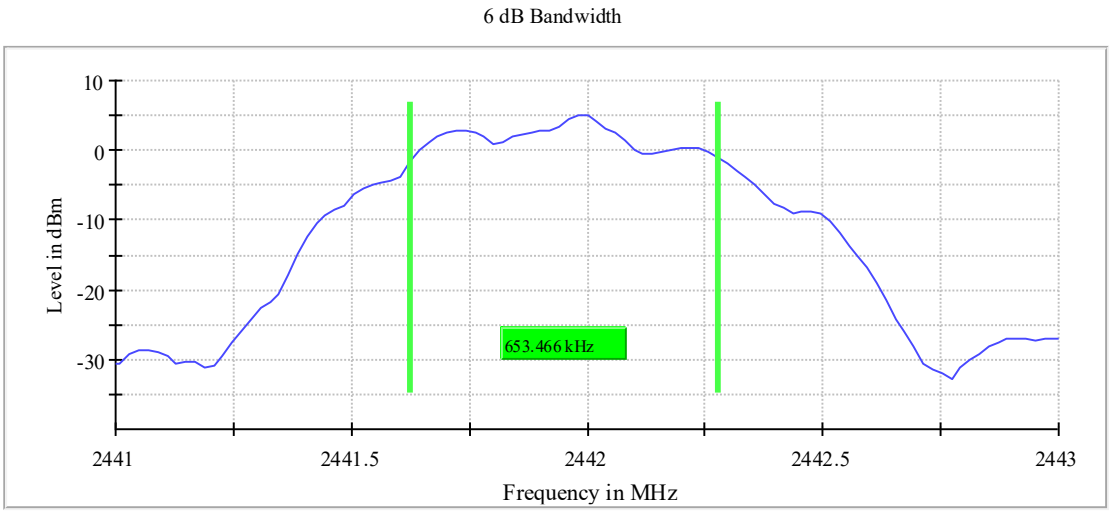
Customized settings.

6 dB Bandwidth

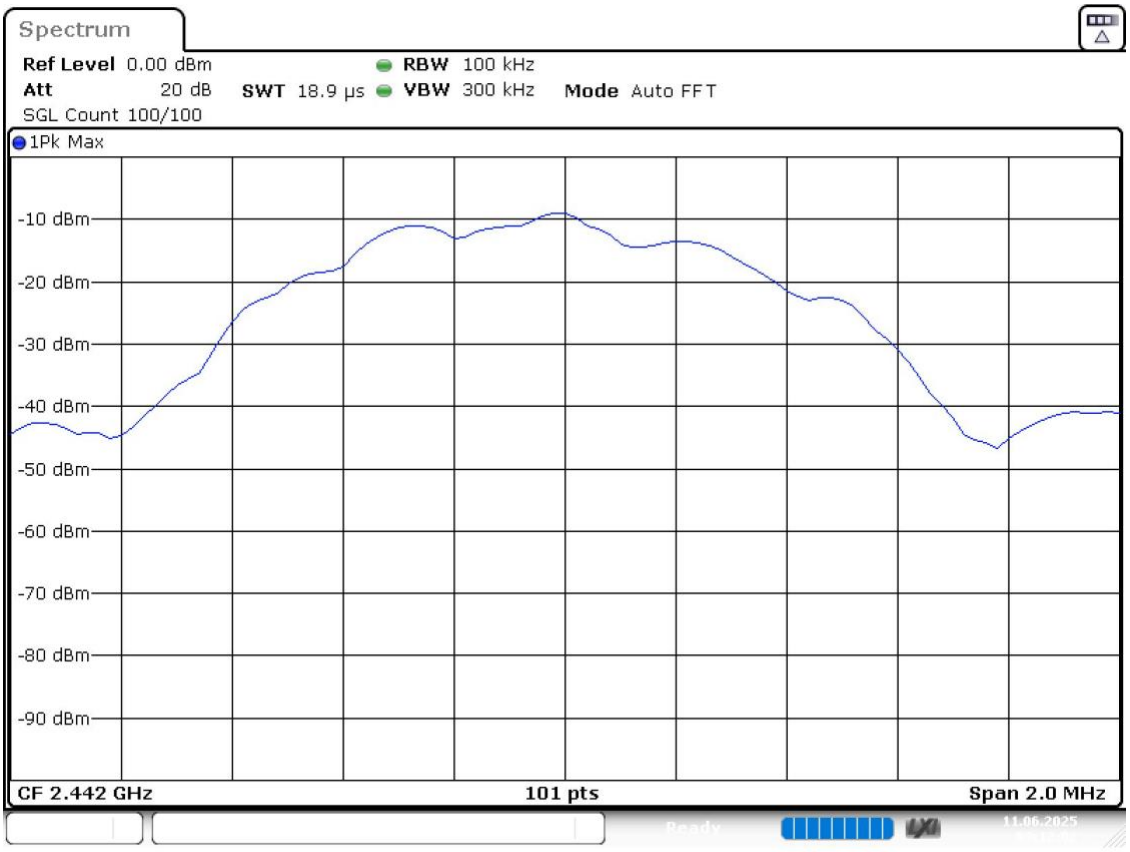
DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2442.000000	0.653466	0.500000	---	2441.623762	2442.277228

(continuation of the "6 dB Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
2442.000000	5.0	PASS



Bandwidth



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Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.44100 GHz	2.44100 GHz
Stop Frequency	2.44300 GHz	2.44300 GHz
Span	2.000 MHz	2.000 MHz
RBW	100.000 kHz	~ 100.000 kHz
VBW	300.000 kHz	~ 300.000 kHz
SweepPoints	101	~ 40
Sweeptime	18.938 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

Peak Power Spectral Density (2442 MHz; 15.000 dBm; 1 MHz)

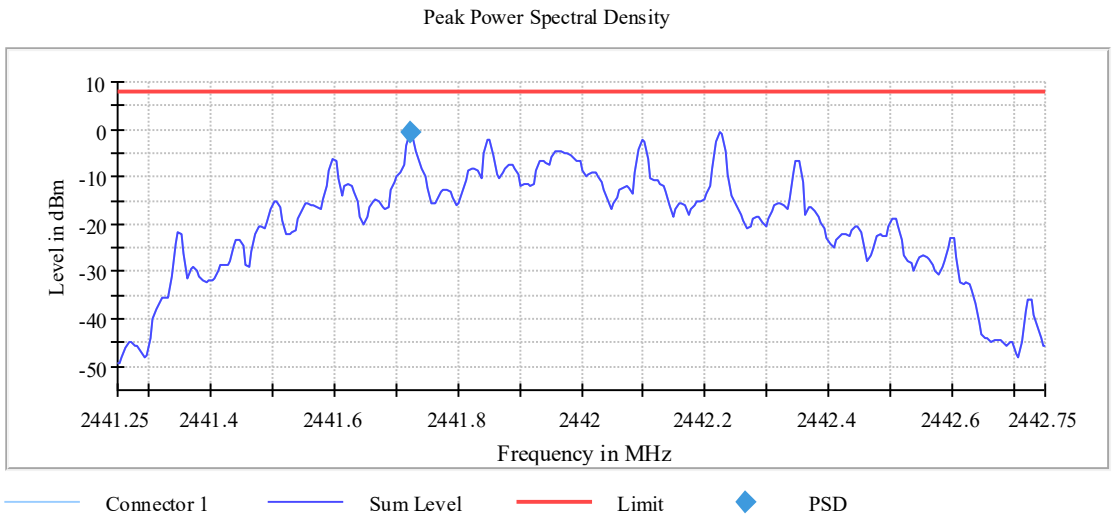
Customized settings.

Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
2442.000000	2441.722500	-0.632	8.0	PASS

Ports

Port	State
1	used



Occupied Channel Bandwidth 99% (2442 MHz; 15.000 dBm; 1 MHz)

Customized settings.

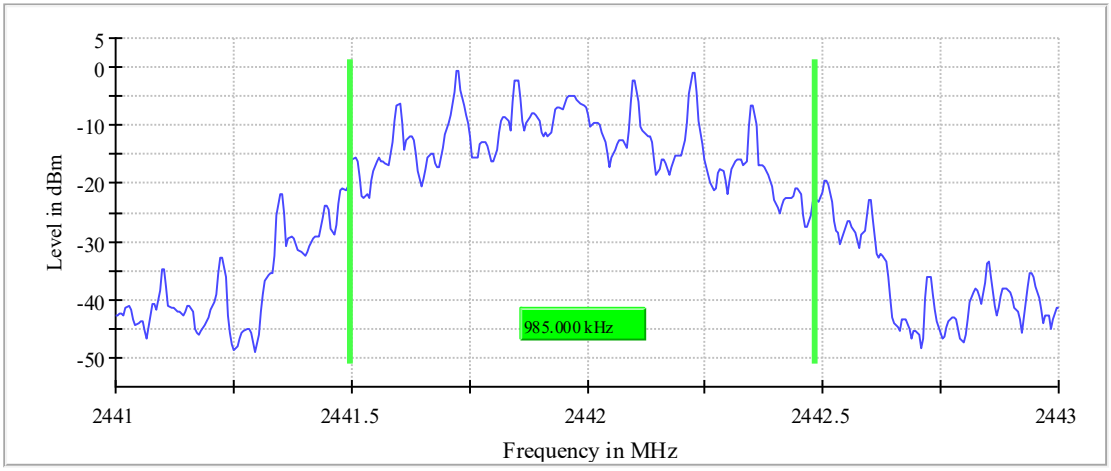
99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2442.000000	0.985000	---	---	2441.497500	2442.482500

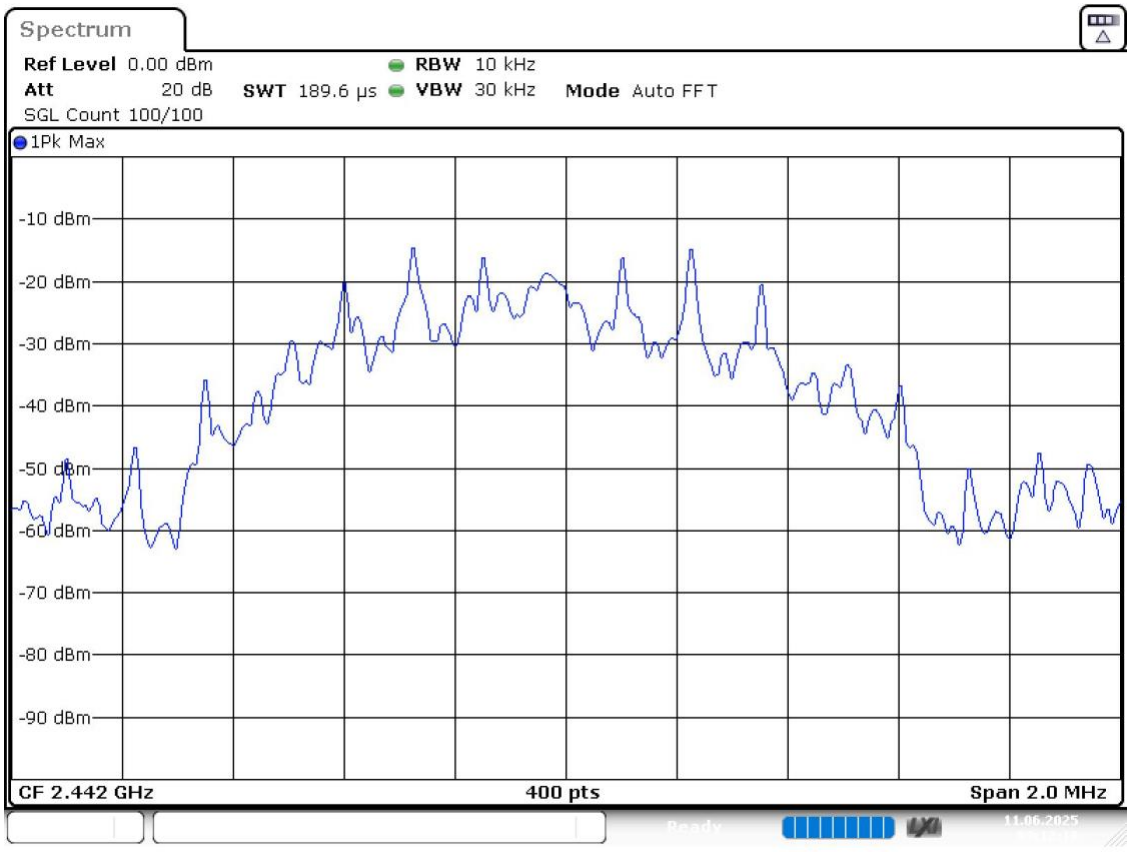
(continuation of the "99 % Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Result
2442.000000	PASS

99 % Bandwidth



Bandwidth



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Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.44100 GHz	2.44100 GHz
Stop Frequency	2.44300 GHz	2.44300 GHz
Span	2.000 MHz	2.000 MHz
RBW	10.000 kHz	>= 10.000 kHz
VBW	30.000 kHz	>= 30.000 kHz
SweepPoints	400	~ 400
Sweeptime	189.648 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

Tx Spurious Emission (2442 MHz; 15.000 dBm; 1 MHz)

Customized settings.

Result

DUT Frequency (MHz)	Result
2442.000000	PASS

Final measurements

Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result
---	---	---	---	---	---

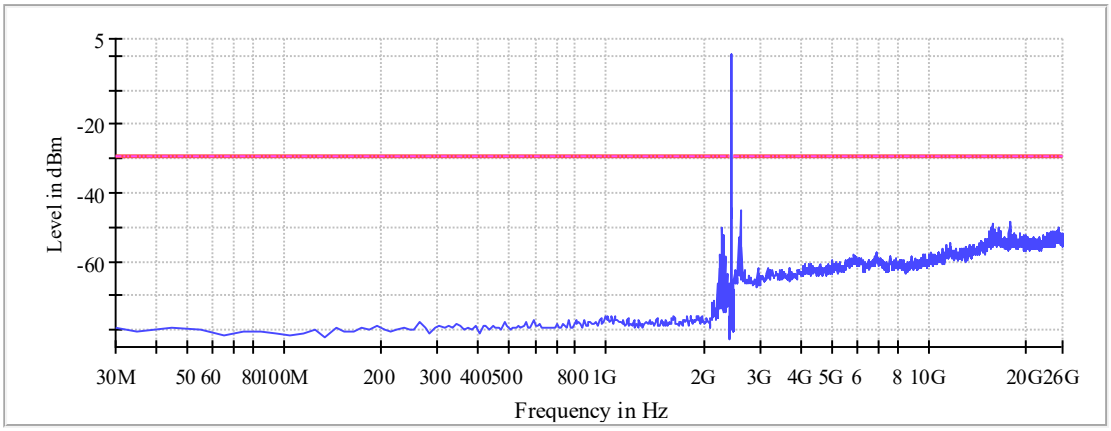
Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
2598.434020	-44.8	15.5	-29.3
17809.701764	-48.2	18.9	-29.3
15730.895134	-48.7	19.4	-29.3
15760.877922	-49.3	20.0	-29.3
15720.900871	-49.3	20.0	-29.3
15790.860710	-49.5	20.2	-29.3
17779.718976	-49.7	20.4	-29.3
15830.837760	-49.8	20.5	-29.3
16370.527943	-49.9	20.5	-29.3
15710.906609	-50.0	20.7	-29.3
2285.483193	-50.2	20.9	-29.3
15690.918083	-50.3	21.0	-29.3
15750.883659	-50.3	21.0	-29.3
25165.479069	-50.3	21.0	-29.3
15650.941033	-50.6	21.3	-29.3

Measurement Settings

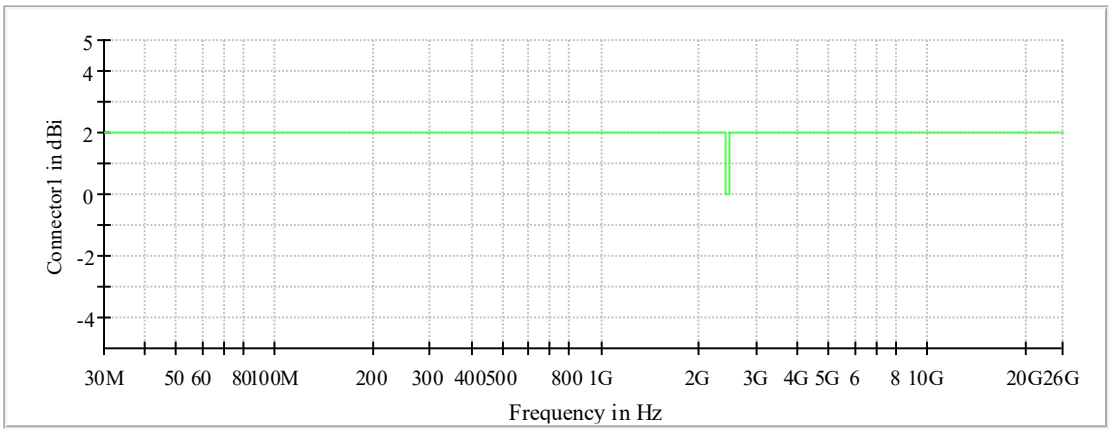
Start Frequency (MHz)	Stop Frequency (MHz)	Pre Measurement	Final Measurement
30.000000	2400.000000	1	1
2400.000000	2483.500000	1	1
2483.500000	26000.000000	1	1

Spurious

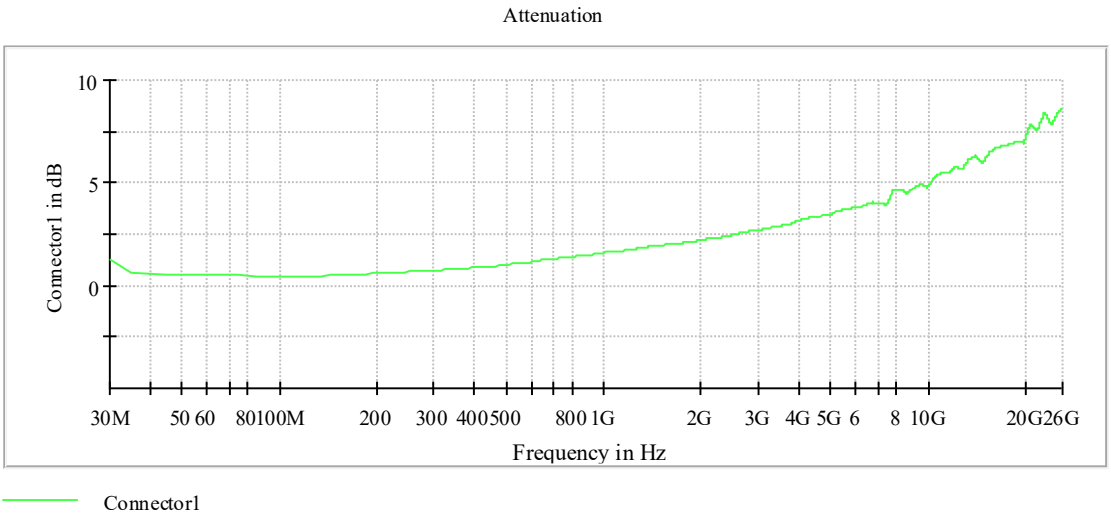


Limit Sum Level Threshold Critical Final Critical

Gain



Connector1



Emissions in restricted frequency bands (Average) (2442 MHz; 15.000 dBm; 1 MHz)

Customized settings.

Result

DUT Frequency (MHz)	Result
2442.000000	PASS

Final measurements

Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result
---	---	---	---	---	---

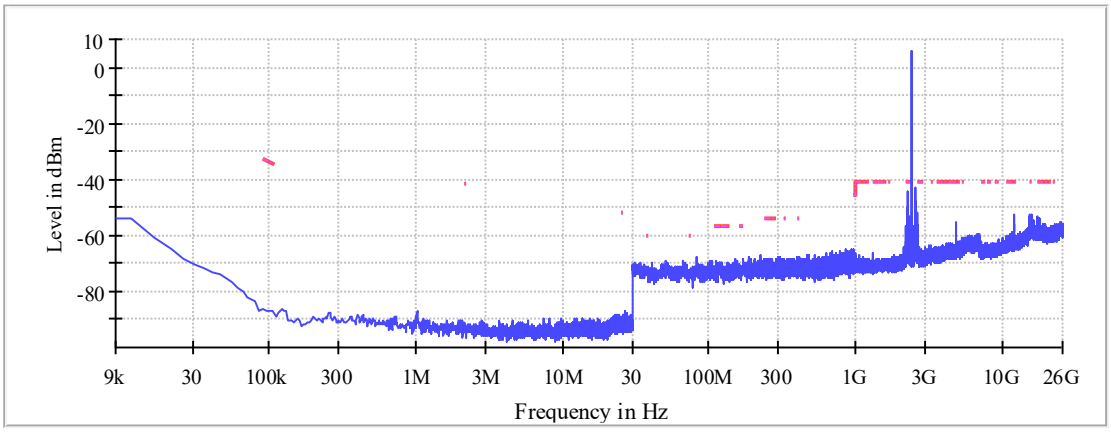
Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
2286.250000	-44.6	3.4	-41.2
2286.750000	-45.3	4.1	-41.2
2285.750000	-45.4	4.2	-41.2
2312.250000	-49.6	8.4	-41.2
2287.250000	-50.8	9.6	-41.2
2311.750000	-50.9	9.7	-41.2
2285.250000	-50.9	9.7	-41.2
2312.750000	-50.9	9.7	-41.2
15747.148527	-52.8	11.6	-41.2
12208.509109	-52.8	11.6	-41.2
2260.250000	-52.8	11.6	-41.2
15702.618668	-52.9	11.7	-41.2
169.925000	-68.1	11.7	-56.4
74.475000	-71.7	11.8	-59.9
15708.555983	-53.1	11.9	-41.2

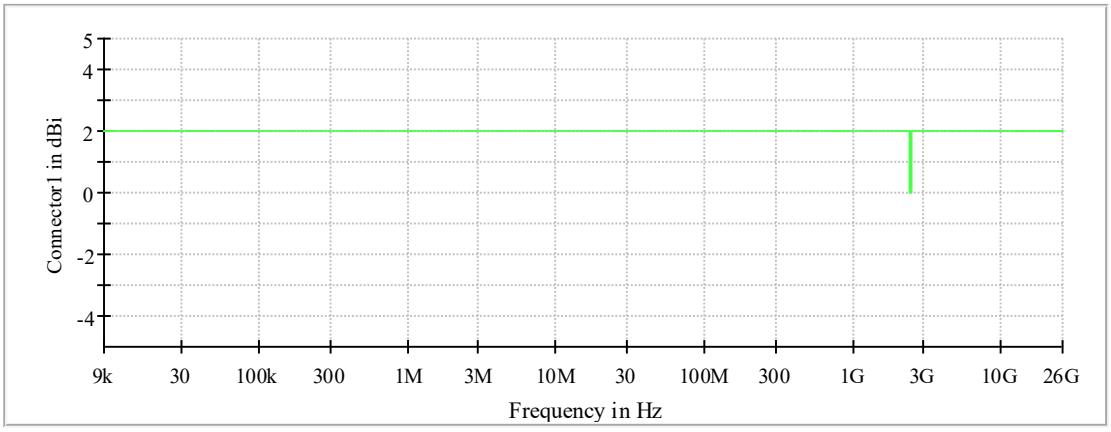
Measurement Settings

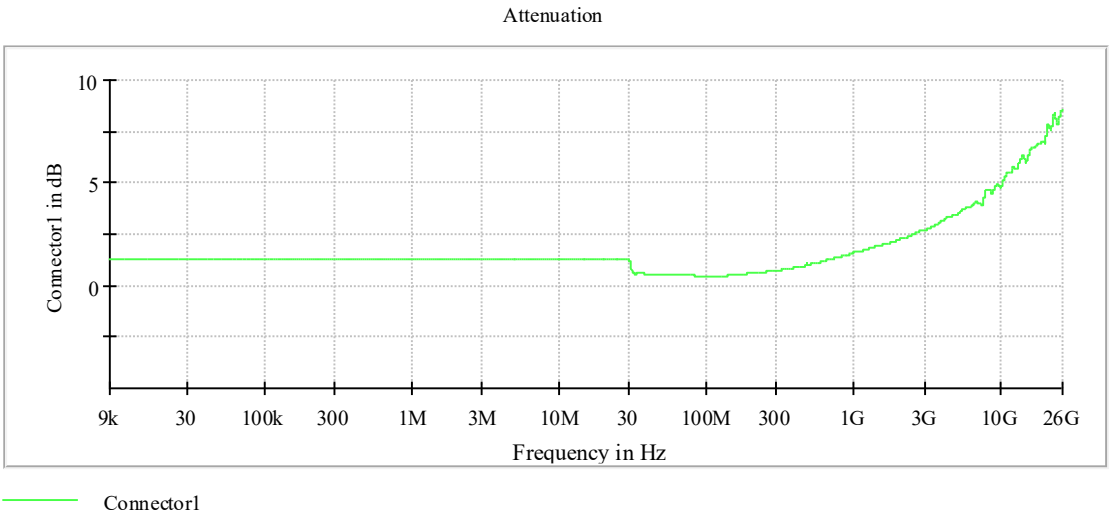
Start Frequency (MHz)	Stop Frequency (MHz)	Pre Measurement	Final Measurement
0.009000	30.000000	2	2
30.000000	1000.000000	2	2
1000.000000	7000.000000	1	1
7000.000000	26000.000000	1	1

Restricted Band



Gain





Minimum Emission Bandwidth 6 dB (2480 MHz; 15.000 dBm; 1 MHz)

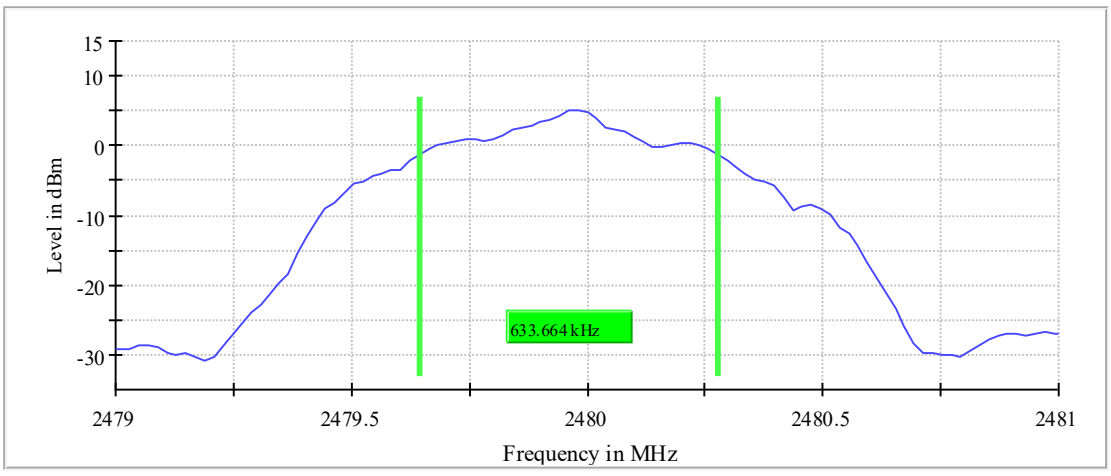
Customized settings.

6 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2480.000000	0.633664	0.500000	---	2479.643564	2480.277228

(continuation of the "6 dB Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
2480.000000	5.1	PASS



Bandwidth

Date: 11.JUN.2025 03:15:24

Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.47900 GHz	2.47900 GHz
Stop Frequency	2.48100 GHz	2.48100 GHz
Span	2.000 MHz	2.000 MHz
RBW	100.000 kHz	~ 100.000 kHz
VBW	300.000 kHz	~ 300.000 kHz
SweepPoints	101	~ 40
Sweeptime	18.938 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

Peak Power Spectral Density (2480 MHz; 15.000 dBm; 1 MHz)

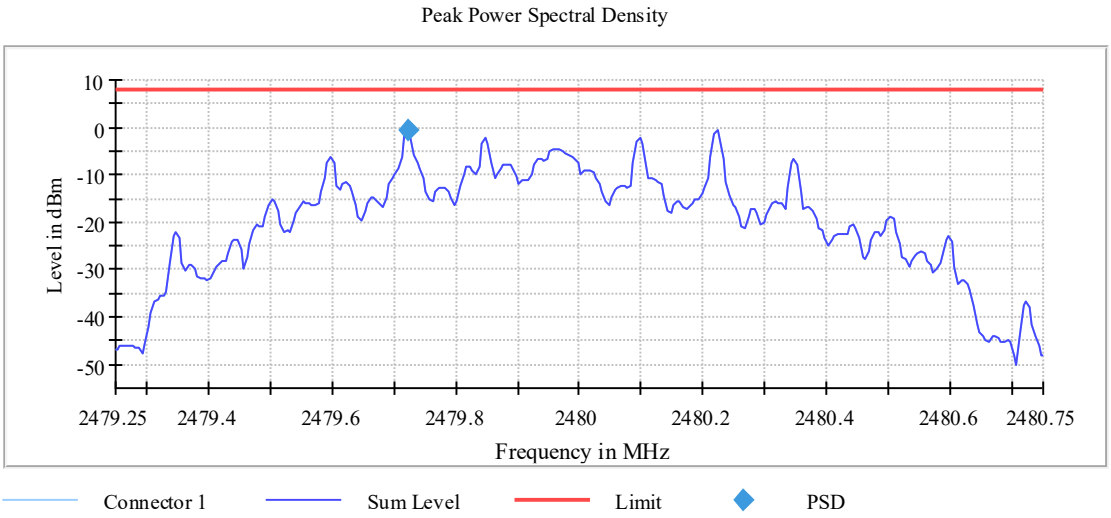
Customized settings.

Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
2480.000000	2479.722500	-0.652	8.0	PASS

Ports

Port	State
1	used



Occupied Channel Bandwidth 99% (2480 MHz; 15.000 dBm; 1 MHz)

Customized settings.

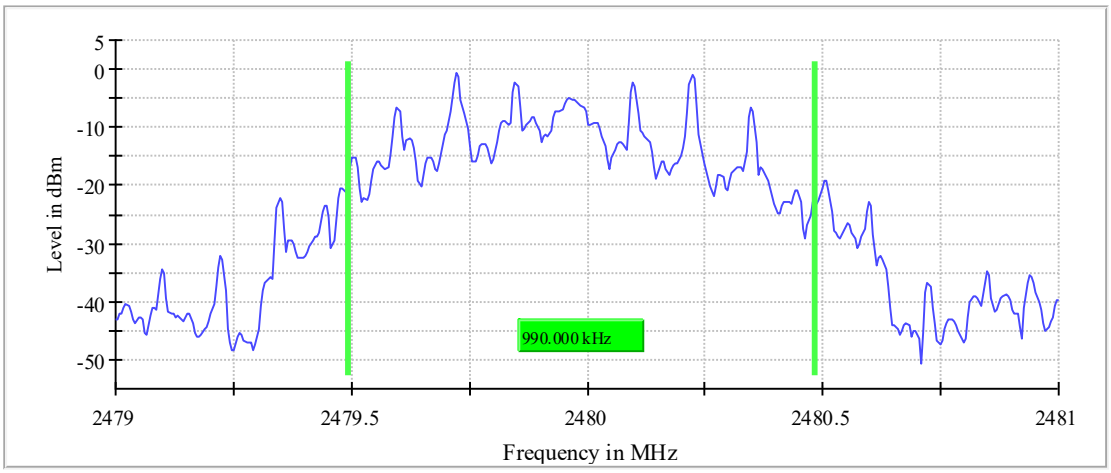
99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2480.000000	0.990000	---	---	2479.492500	2480.482500

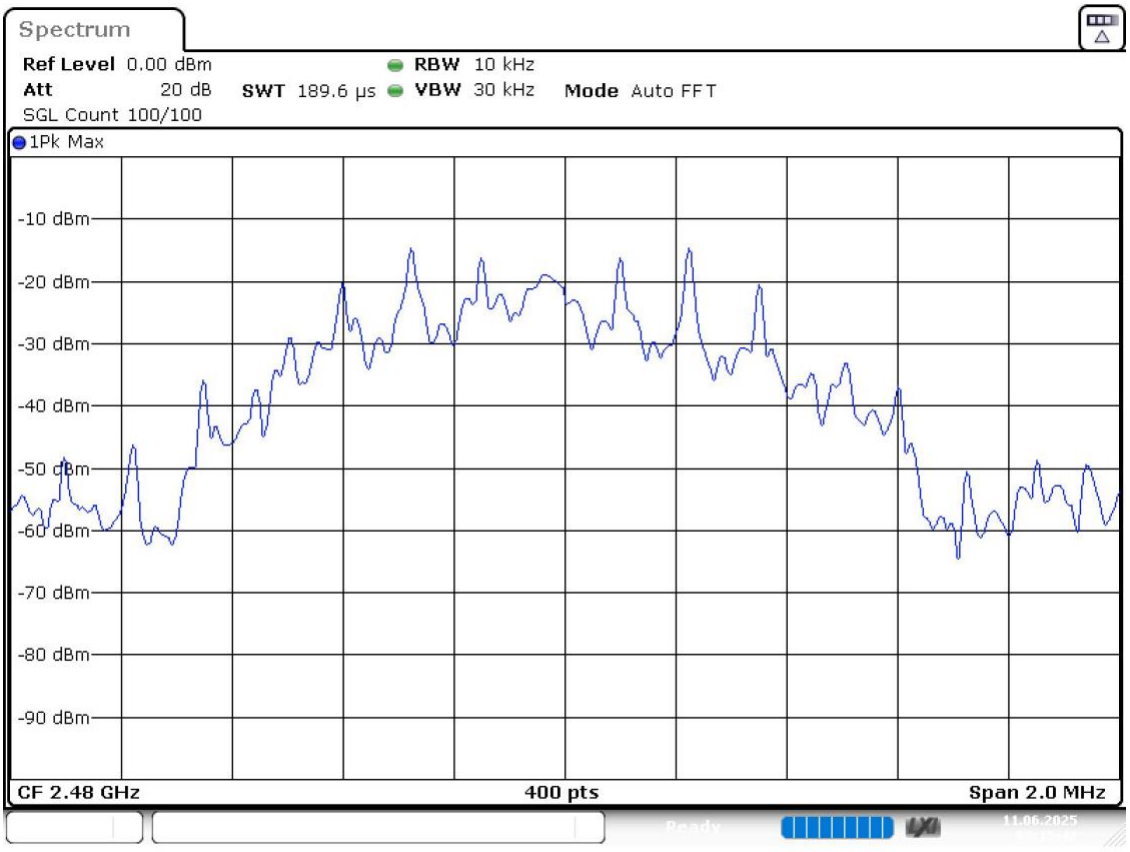
(continuation of the "99 % Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Result
2480.000000	PASS

99 % Bandwidth



Bandwidth



Date: 11.JUN.2025 03:15:42

Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.47900 GHz	2.47900 GHz
Stop Frequency	2.48100 GHz	2.48100 GHz
Span	2.000 MHz	2.000 MHz
RBW	10.000 kHz	>= 10.000 kHz
VBW	30.000 kHz	>= 30.000 kHz
SweepPoints	400	~ 400
Sweeptime	189.648 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

Band Edge high (2480 MHz; 15.000 dBm; 1 MHz)

Customized settings.

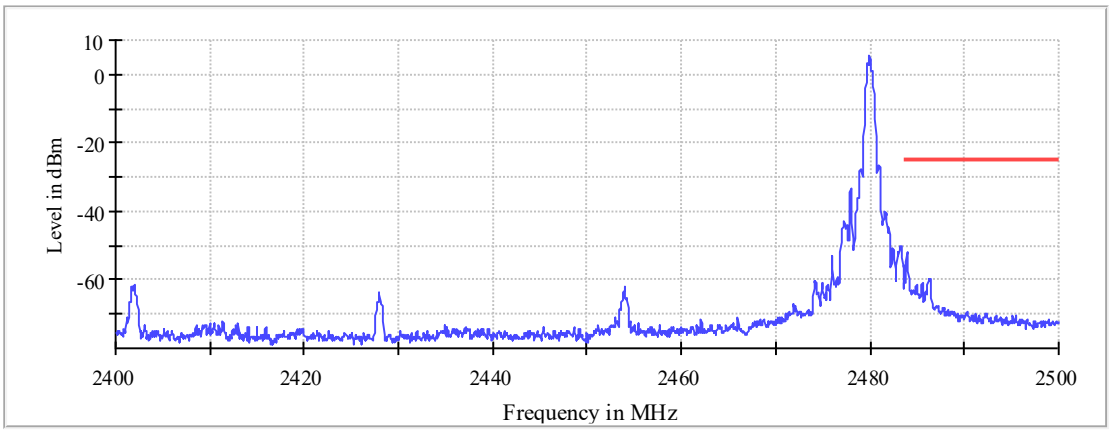
Result

DUT Frequency (MHz)	Result
2480.000000	PASS

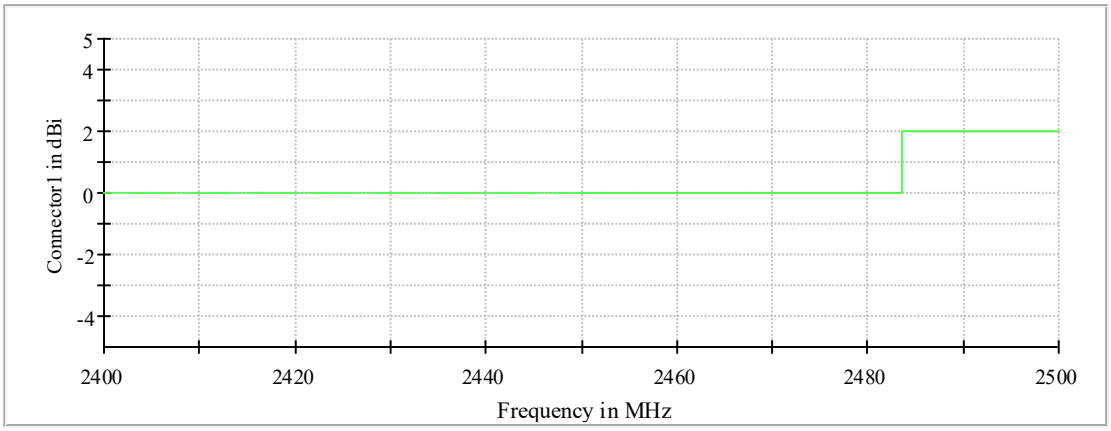
Measurements

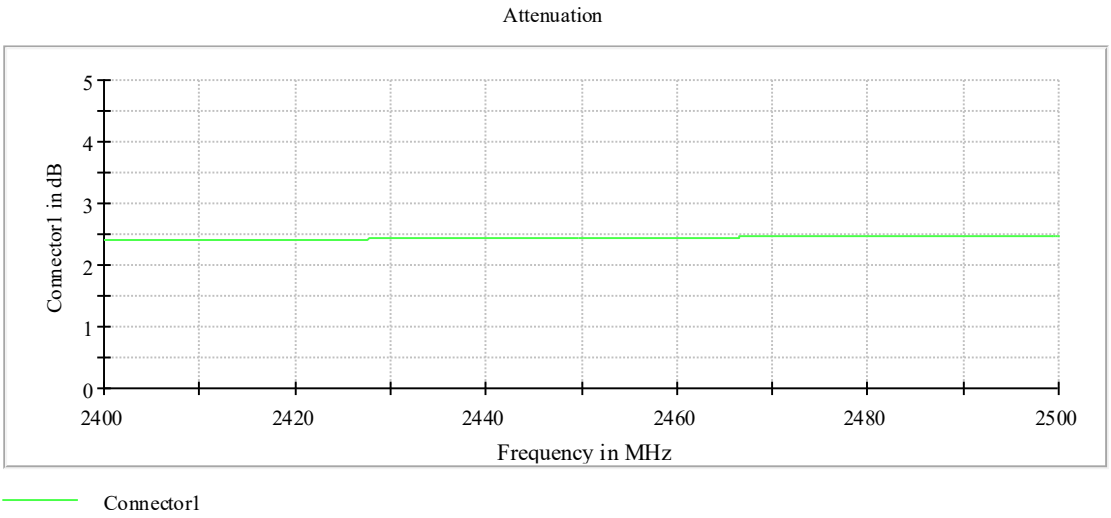
Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
2483.975000	-51.7	27.1	-24.6	PASS
2483.925000	-51.9	27.3	-24.6	PASS
2484.025000	-53.6	29.0	-24.6	PASS
2483.875000	-54.9	30.3	-24.6	PASS
2483.525000	-56.1	31.5	-24.6	PASS
2484.075000	-57.5	32.9	-24.6	PASS
2484.125000	-59.5	34.9	-24.6	PASS
2484.175000	-59.6	35.0	-24.6	PASS
2486.325000	-59.8	35.2	-24.6	PASS
2486.375000	-59.8	35.2	-24.6	PASS
2486.225000	-59.9	35.3	-24.6	PASS
2483.825000	-59.9	35.3	-24.6	PASS
2486.275000	-60.0	35.4	-24.6	PASS
2483.775000	-60.1	35.5	-24.6	PASS
2483.575000	-60.2	35.6	-24.6	PASS

Band Edge



Gain





Tx Spurious Emission (2480 MHz; 15.000 dBm; 1 MHz)

Customized settings.

Result

DUT Frequency (MHz)	Result
2480.000000	PASS

Final measurements

Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result
---	---	---	---	---	---

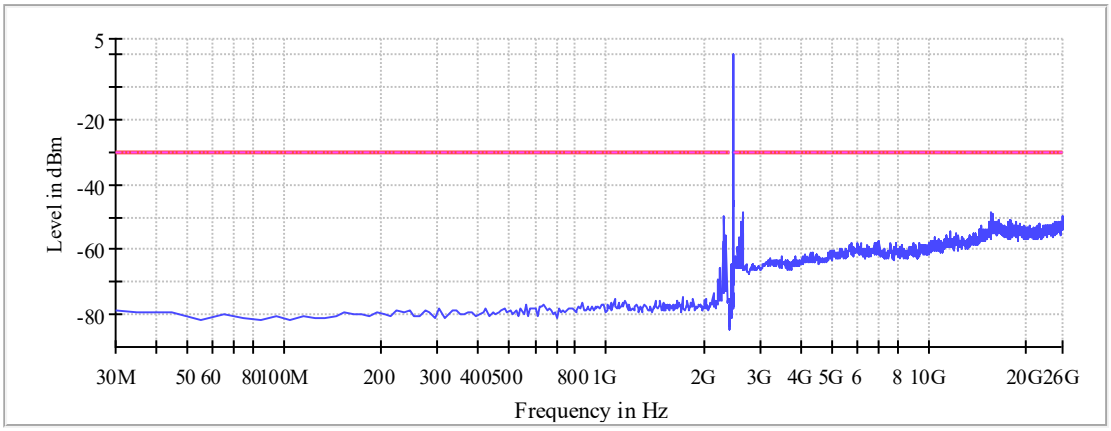
Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
2638.411071	-48.6	18.8	-29.8
15690.918083	-48.7	18.9	-29.8
15820.843498	-48.9	19.1	-29.8
2325.315126	-49.4	19.6	-29.8
25865.077454	-49.6	19.9	-29.8
15750.883659	-49.9	20.1	-29.8
15700.912346	-49.9	20.1	-29.8
15860.820548	-50.1	20.3	-29.8
15710.906609	-50.1	20.3	-29.8
15810.849235	-50.3	20.5	-29.8
15730.895134	-50.3	20.5	-29.8
15720.900871	-50.4	20.6	-29.8
15760.877922	-50.5	20.8	-29.8
15650.941033	-50.6	20.8	-29.8
17819.696026	-50.6	20.8	-29.8

Measurement Settings

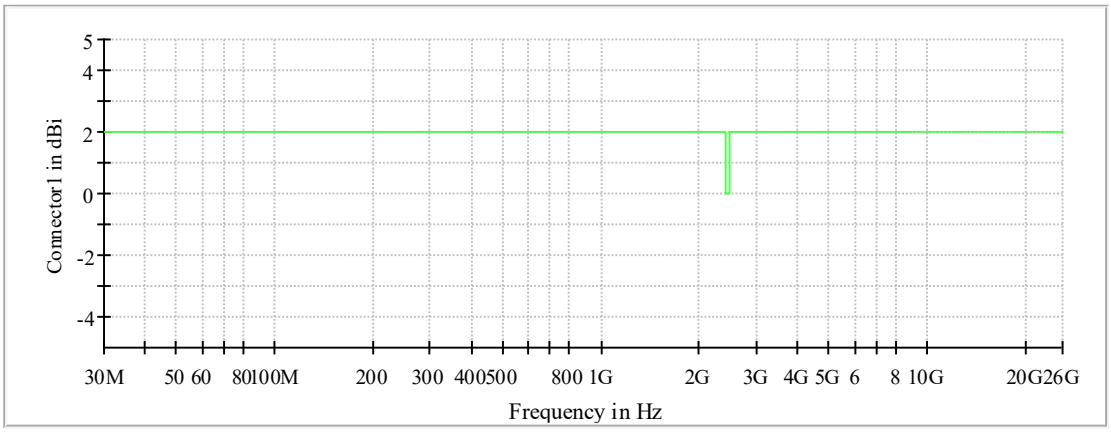
Start Frequency (MHz)	Stop Frequency (MHz)	Pre Measurement	Final Measurement
30.000000	2400.000000	1	1
2400.000000	2483.500000	1	1
2483.500000	26000.000000	1	1

Spurious

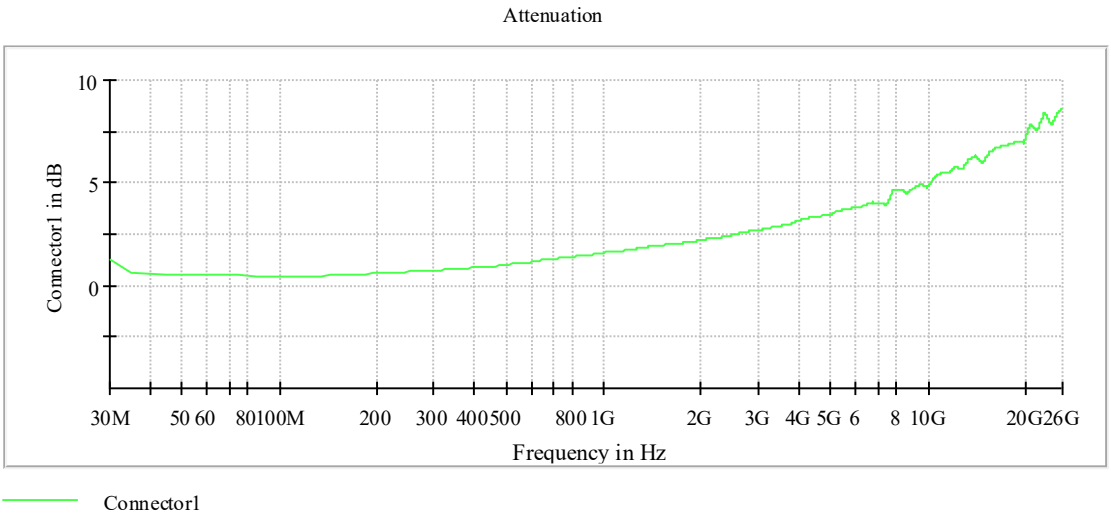


Limit Sum Level Threshold Critical Final Critical

Gain



Connector1



Emissions in restricted frequency bands (Average) (2480 MHz; 15.000 dBm; 1 MHz)

Customized settings.

Result

DUT Frequency (MHz)	Result
2480.000000	PASS

Final measurements

Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result
---	---	---	---	---	---

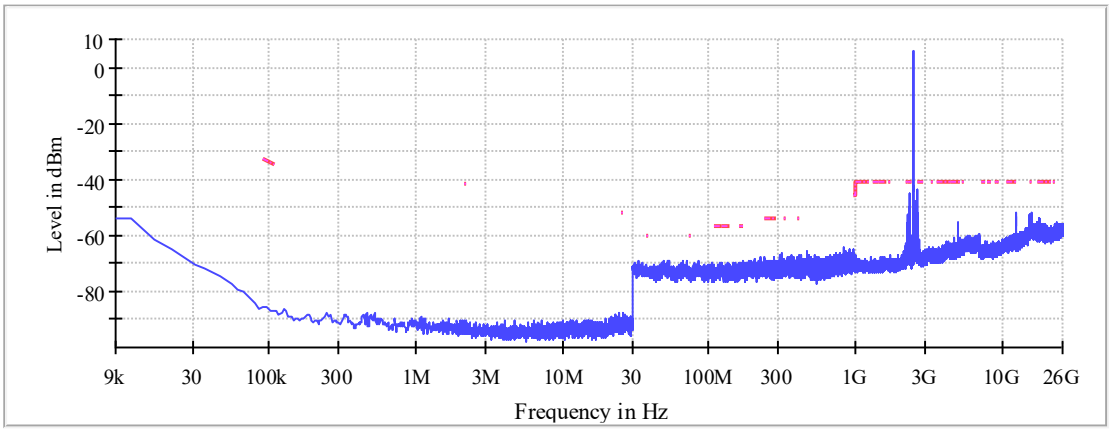
Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
2483.750000	-42.5	1.3	-41.2
2324.250000	-44.9	3.7	-41.2
2323.750000	-45.4	4.2	-41.2
2324.750000	-45.5	4.3	-41.2
2484.250000	-46.6	5.4	-41.2
2350.250000	-49.7	8.5	-41.2
2325.250000	-50.5	9.3	-41.2
2350.750000	-50.6	9.4	-41.2
2323.250000	-50.7	9.5	-41.2
2349.750000	-51.0	9.8	-41.2
2485.750000	-51.6	10.4	-41.2
2376.250000	-51.8	10.6	-41.2
12398.503172	-52.0	10.8	-41.2
15760.804350	-52.1	10.9	-41.2
2298.250000	-52.4	11.2	-41.2

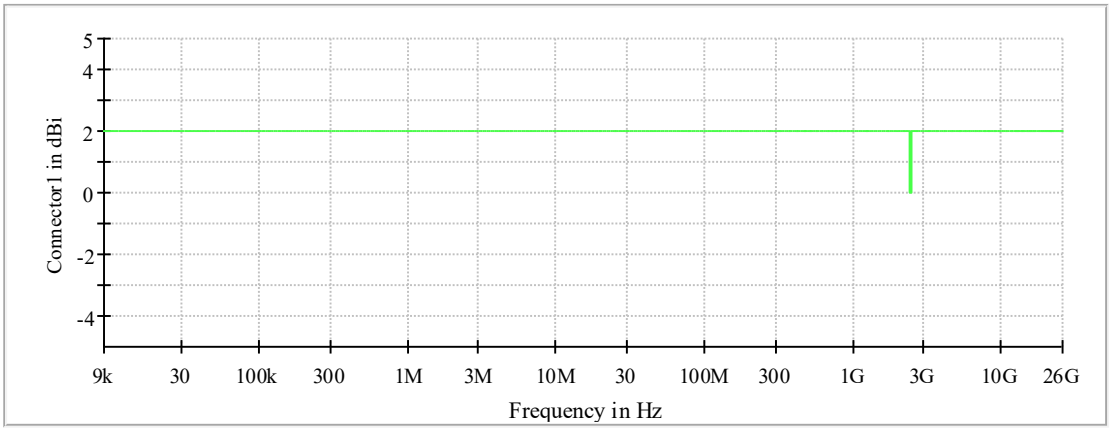
Measurement Settings

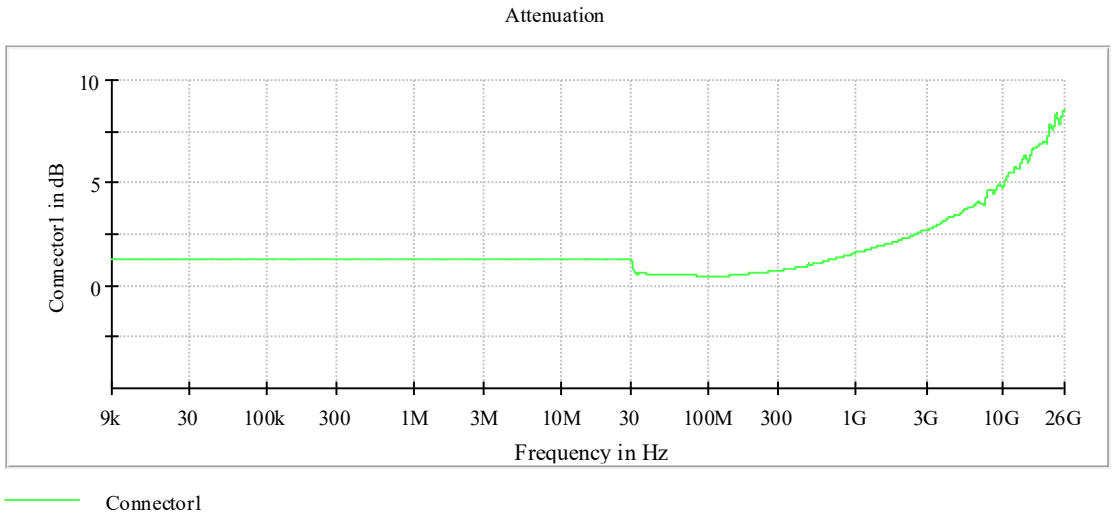
Start Frequency (MHz)	Stop Frequency (MHz)	Pre Measurement	Final Measurement
0.009000	30.000000	2	2
30.000000	1000.000000	2	2
1000.000000	7000.000000	1	1
7000.000000	26000.000000	1	1

Restricted Band



Gain





1.2 Band Edge

Summary

Test	Frequency (MHz)	Nominal Power (dBm)	Nominal Bandwidth (MHz)	Result
Band Edge low	2402.000	15.0	1.000000	PASS
Emissions in restricted frequency bands (Average)	2402.000	15.0	1.000000	PASS
Emissions in restricted frequency bands (Peak)	2402.000	15.0	1.000000	PASS
Band Edge low	2442.000	15.0	1.000000	PASS
Emissions in restricted frequency bands (Average)	2442.000	15.0	1.000000	PASS
Emissions in restricted frequency bands (Peak)	2442.000	15.0	1.000000	PASS
Band Edge low	2480.000	15.0	1.000000	PASS
Emissions in restricted frequency bands (Average)	2480.000	15.0	1.000000	PASS
Emissions in restricted frequency bands (Peak)	2480.000	15.0	1.000000	PASS

Band Edge low (2402 MHz; 15.000 dBm; 1 MHz)

Customized settings.

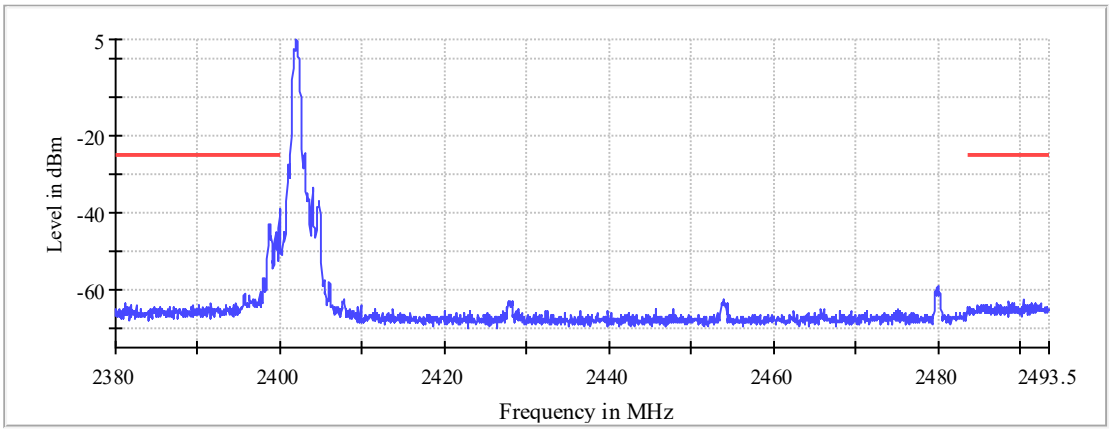
Result

DUT Frequency (MHz)	Result
2402.000000	PASS

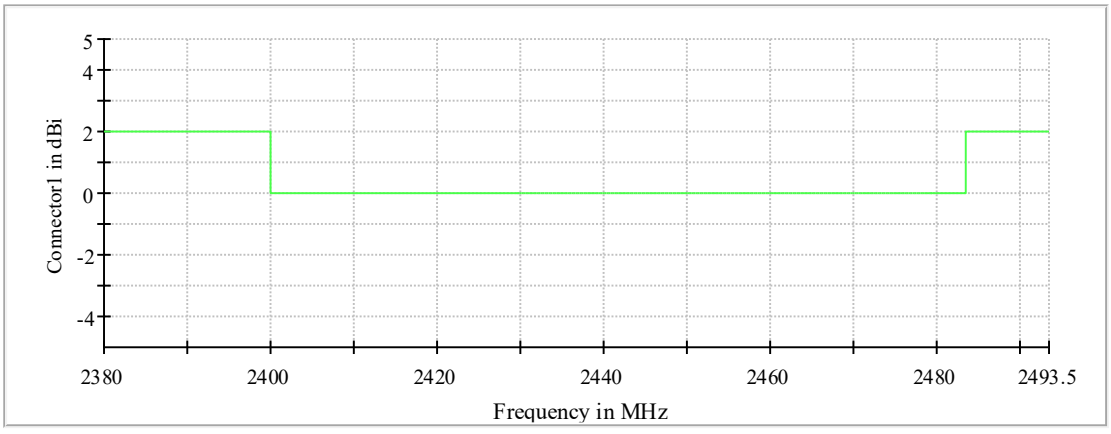
Measurements

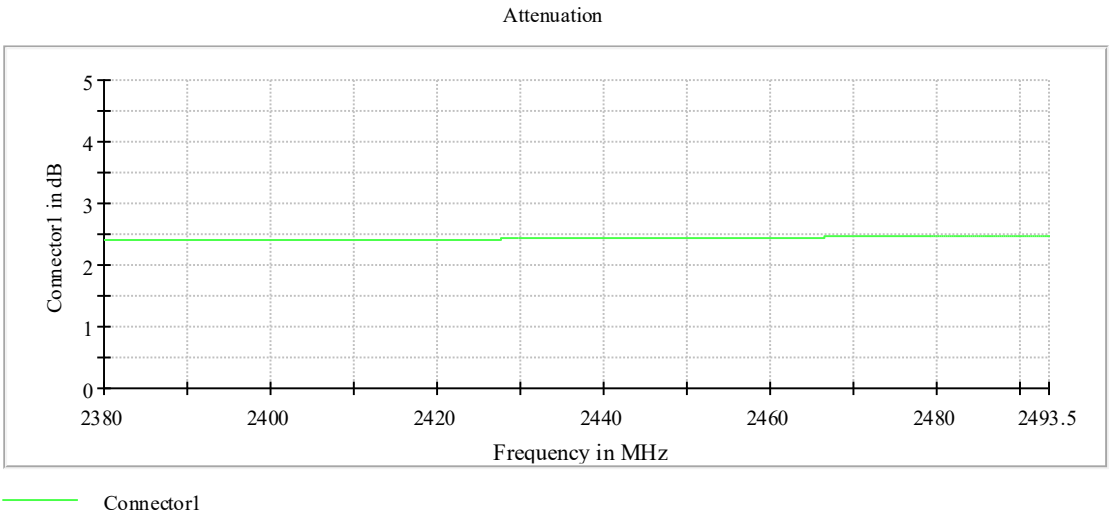
Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
2399.975000	-39.0	13.9	-25.1	PASS
2399.925000	-40.4	15.3	-25.1	PASS
2398.675000	-43.1	18.0	-25.1	PASS
2398.725000	-43.2	18.0	-25.1	PASS
2399.875000	-43.9	18.8	-25.1	PASS
2398.625000	-44.0	18.9	-25.1	PASS
2399.475000	-44.9	19.8	-25.1	PASS
2398.775000	-45.2	20.1	-25.1	PASS
2399.525000	-45.6	20.5	-25.1	PASS
2398.925000	-46.0	20.9	-25.1	PASS
2398.575000	-46.1	21.0	-25.1	PASS
2398.875000	-46.4	21.3	-25.1	PASS
2398.825000	-46.9	21.8	-25.1	PASS
2399.825000	-47.1	21.9	-25.1	PASS
2399.425000	-47.4	22.3	-25.1	PASS

Band Edge



Gain





Measurement 1

Setting	Instrument Value	Target Value
Start Frequency	2.38000 GHz	2.38000 GHz
Stop Frequency	2.44400 GHz	2.44400 GHz
Span	64.000 MHz	64.000 MHz
RBW	100.000 kHz	<= 100.000 kHz
VBW	300.000 kHz	>= 300.000 kHz
SweepPoints	1280	~ 1280
Sweeptime	1.000 s	1.000 s
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	20.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	3	3
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	Sweep	AUTO
Preamp	off	off

Measurement 2

Setting	Instrument Value	Target Value
Start Frequency	2.44400 GHz	2.44400 GHz
Stop Frequency	2.49350 GHz	2.49350 GHz
Span	49.500 MHz	49.500 MHz
RBW	100.000 kHz	<= 100.000 kHz
VBW	300.000 kHz	>= 300.000 kHz
SweepPoints	990	~ 990
Sweeptime	1.000 s	1.000 s
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	20.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	3	3
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	Sweep	AUTO
Preamp	off	off

Emissions in restricted frequency bands (Average) (2402 MHz; 15.000 dBm; 1 MHz)

Customized settings.

Result

DUT Frequency (MHz)	Result
2402.000000	PASS

Final measurements

Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result
---	---	---	---	---	---

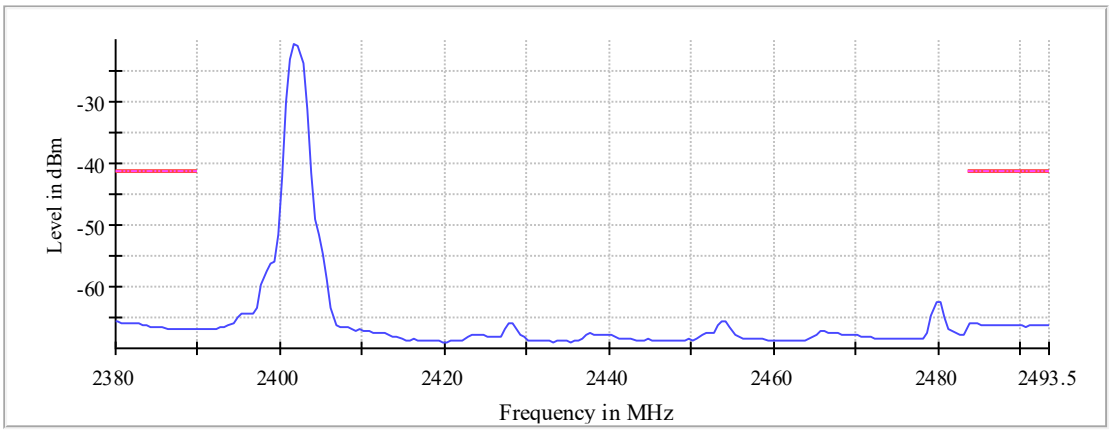
Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
2380.250000	-65.7	24.5	-41.2
2380.000000	-65.7	24.5	-41.2
2380.750000	-65.8	24.6	-41.2
2381.250000	-65.8	24.6	-41.2
2483.750000	-65.9	24.7	-41.2
2381.750000	-65.9	24.7	-41.2
2382.250000	-66.0	24.8	-41.2
2484.750000	-66.0	24.8	-41.2
2484.250000	-66.0	24.8	-41.2
2382.750000	-66.1	24.9	-41.2
2485.250000	-66.2	25.0	-41.2
2383.250000	-66.2	25.0	-41.2
2491.750000	-66.2	25.0	-41.2
2492.750000	-66.2	25.0	-41.2
2485.750000	-66.2	25.0	-41.2

Measurement Settings

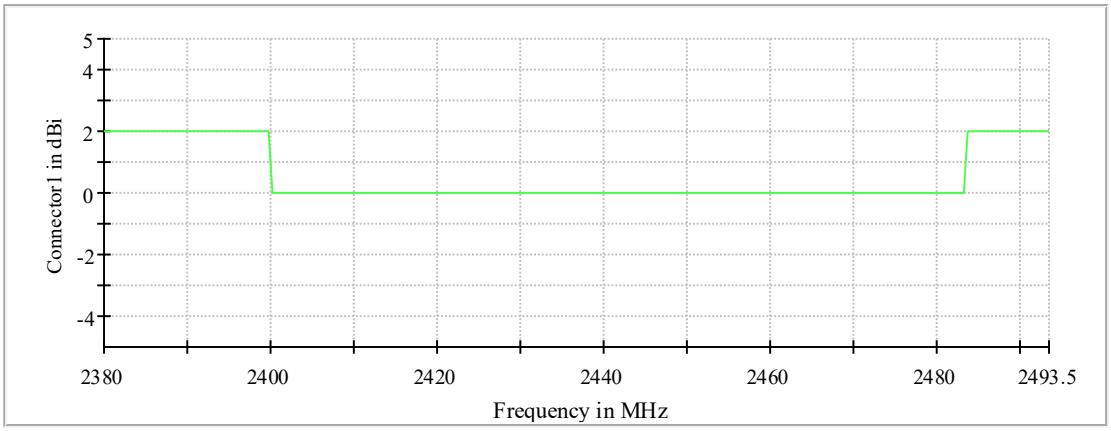
Start Frequency (MHz)	Stop Frequency (MHz)	Pre Measurement	Final Measurement
2380.000000	2493.500000	1	1

Restricted Band

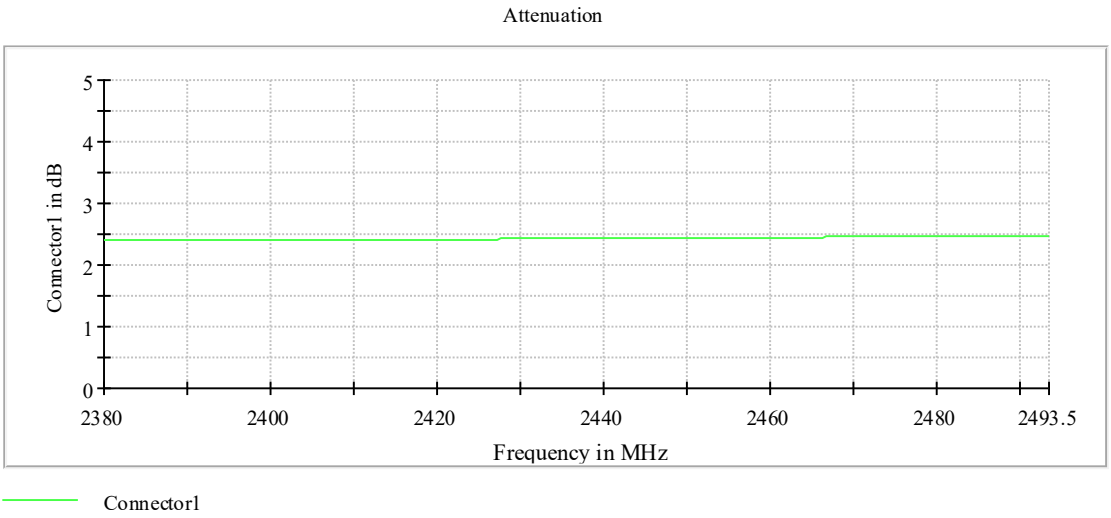


Limit Threshold Critical Sum Level Final Critical

Gain



Connector1



Pre Measurement 1

Setting	Instrument Value	Target Value
RBW	1.000 MHz	<= 1.000 MHz
VBW	500.000 Hz	>= 400.000 Hz
SweepPoints	227	~ 227
Sweeptime	5.048 ms	AUTO
Reference Level	10.000 dBm	10.000 dBm
Attenuation	20.000 dB	20.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	AUTO
Preamp	off	off

Emissions in restricted frequency bands (Peak) (2402 MHz; 15.000 dBm; 1 MHz)

Customized settings.

Result

DUT Frequency (MHz)	Result
2402.000000	PASS

Final measurements

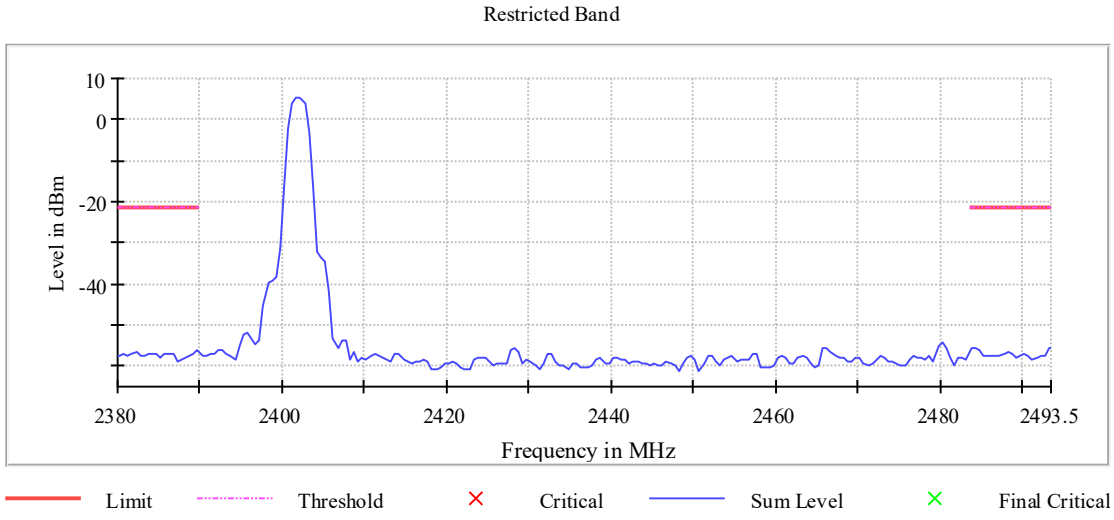
Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result
---	---	---	---	---	---

Pre Measurements

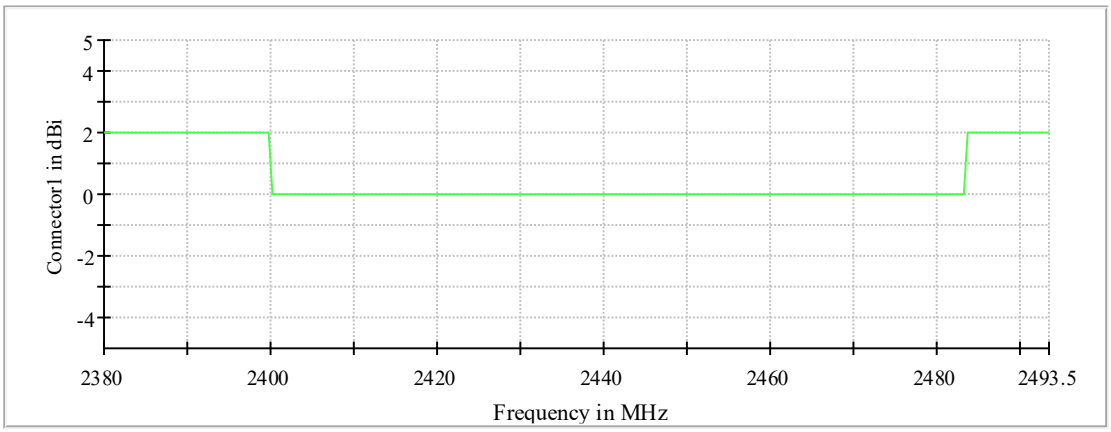
Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
2493.500000	-55.6	34.4	-21.2
2493.250000	-55.6	34.4	-21.2
2484.250000	-55.6	34.4	-21.2
2483.750000	-55.8	34.6	-21.2
2484.750000	-55.9	34.7	-21.2
2389.750000	-56.2	35.0	-21.2
2488.250000	-56.5	35.3	-21.2
2382.250000	-56.6	35.4	-21.2
2384.250000	-56.8	35.6	-21.2
2386.750000	-56.8	35.6	-21.2
2487.750000	-56.9	35.7	-21.2
2389.250000	-56.9	35.7	-21.2
2384.750000	-57.0	35.8	-21.2
2386.250000	-57.0	35.8	-21.2
2490.250000	-57.0	35.8	-21.2

Measurement Settings

Start Frequency (MHz)	Stop Frequency (MHz)	Pre Measurement	Final Measurement
2380.000000	2493.500000	1	1

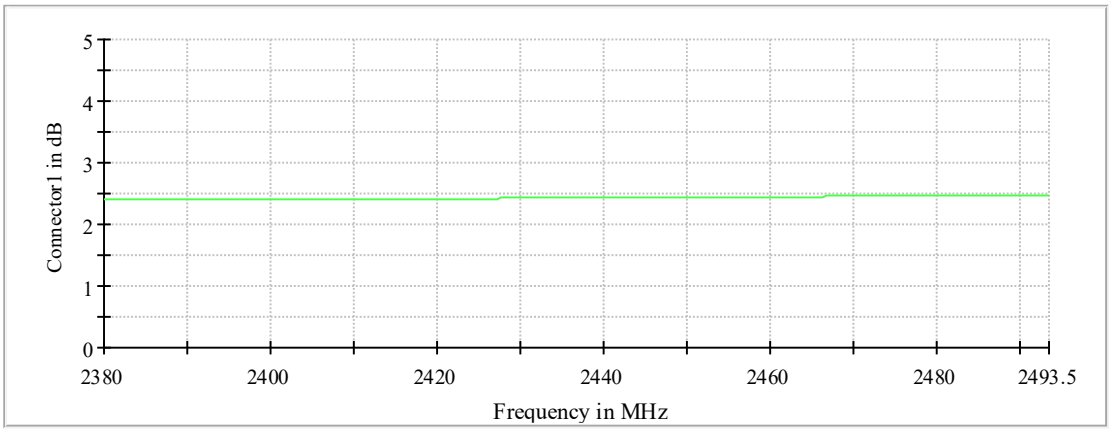


Gain



Connector1

Attenuation



Connector1

Pre Measurement 1

Setting	Instrument Value	Target Value
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	227	~ 227
Sweeptime	15.250 µs	AUTO
Reference Level	10.000 dBm	10.000 dBm
Attenuation	20.000 dB	20.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	AUTO
Preamp	off	off

Band Edge low (2442 MHz; 15.000 dBm; 1 MHz)

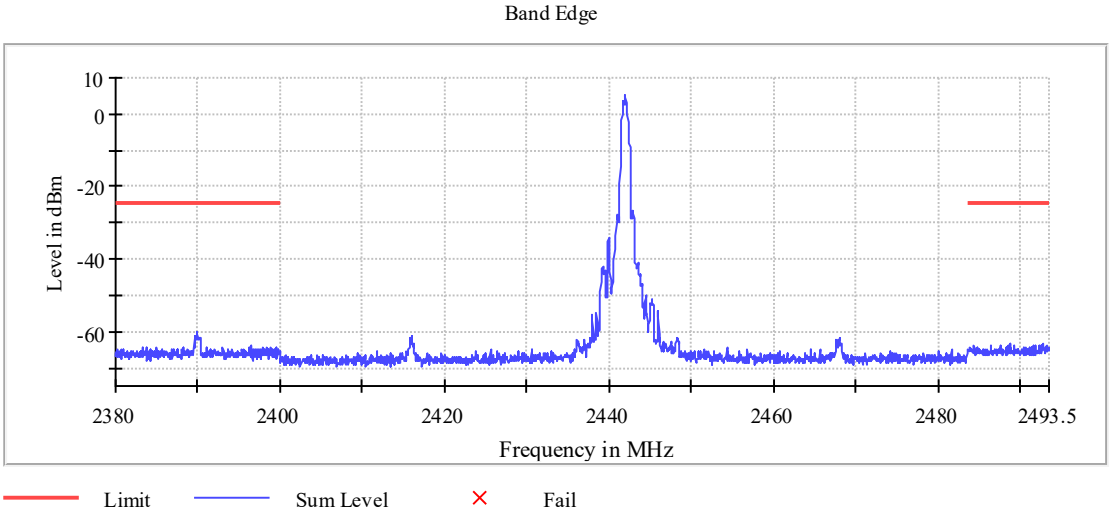
Customized settings.

Result

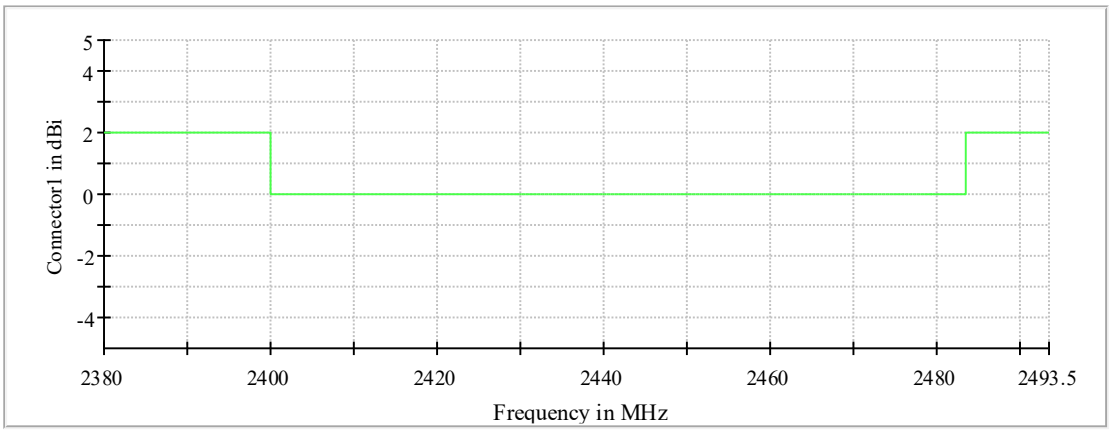
DUT Frequency (MHz)	Result
2442.000000	PASS

Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
2389.875000	-60.3	35.6	-24.6	PASS
2389.975000	-60.9	36.3	-24.6	PASS
2389.675000	-61.4	36.7	-24.6	PASS
2389.725000	-61.6	36.9	-24.6	PASS
2390.225000	-61.8	37.1	-24.6	PASS
2389.925000	-61.8	37.2	-24.6	PASS
2390.275000	-61.9	37.3	-24.6	PASS
2389.575000	-62.0	37.3	-24.6	PASS
2389.775000	-62.1	37.4	-24.6	PASS
2390.175000	-62.3	37.6	-24.6	PASS
2390.075000	-62.3	37.7	-24.6	PASS
2390.025000	-62.3	37.7	-24.6	PASS
2389.825000	-62.4	37.7	-24.6	PASS
2390.125000	-62.4	37.8	-24.6	PASS
2492.725000	-63.1	38.4	-24.6	PASS

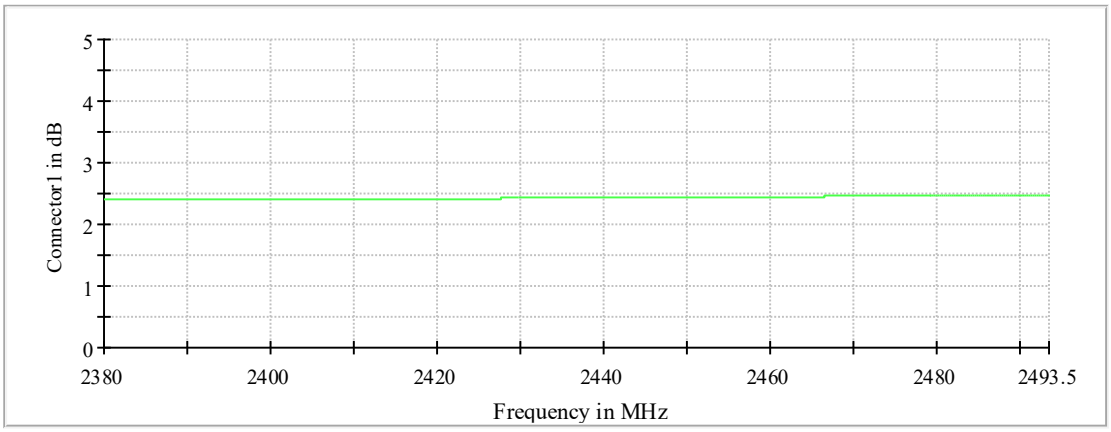


Gain



Connector1

Attenuation



Connector1

Emissions in restricted frequency bands (Average) (2442 MHz; 15.000 dBm; 1 MHz)

Customized settings.

Result

DUT Frequency (MHz)	Result
2442.000000	PASS

Final measurements

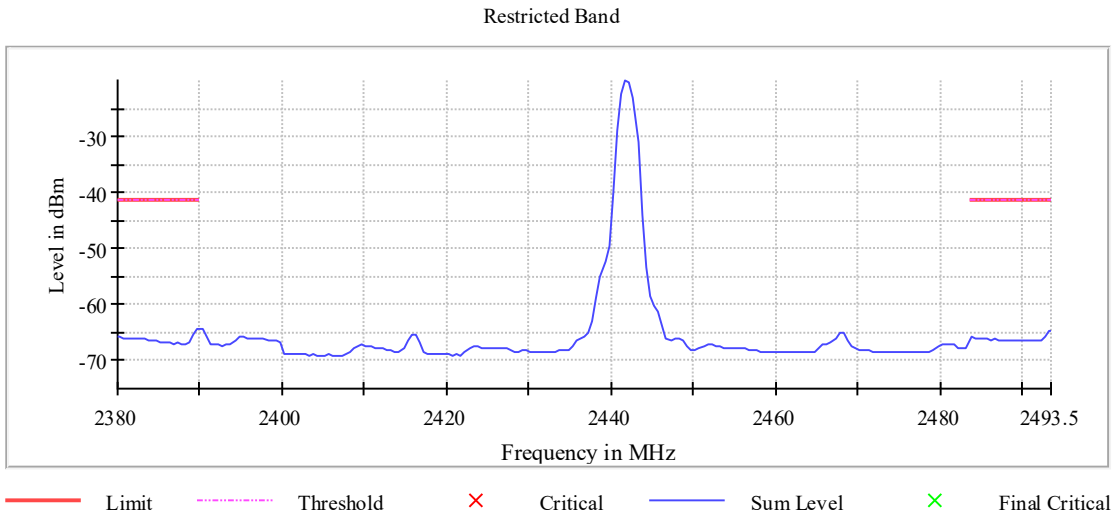
Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result
---	---	---	---	---	---

Pre Measurements

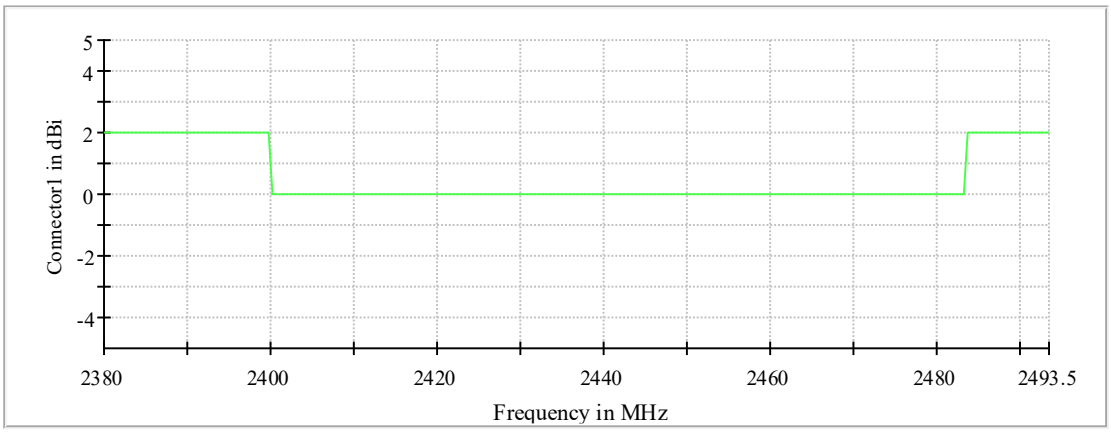
Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
2389.750000	-64.2	23.0	-41.2
2493.500000	-64.7	23.5	-41.2
2493.250000	-64.7	23.5	-41.2
2389.250000	-65.3	24.1	-41.2
2492.750000	-65.8	24.6	-41.2
2380.250000	-65.8	24.6	-41.2
2380.000000	-65.8	24.6	-41.2
2483.750000	-65.9	24.7	-41.2
2484.250000	-65.9	24.7	-41.2
2380.750000	-65.9	24.7	-41.2
2381.750000	-66.0	24.8	-41.2
2381.250000	-66.0	24.8	-41.2
2484.750000	-66.1	24.9	-41.2
2485.250000	-66.1	24.9	-41.2
2485.750000	-66.1	24.9	-41.2

Measurement Settings

Start Frequency (MHz)	Stop Frequency (MHz)	Pre Measurement	Final Measurement
2380.000000	2493.500000	1	1

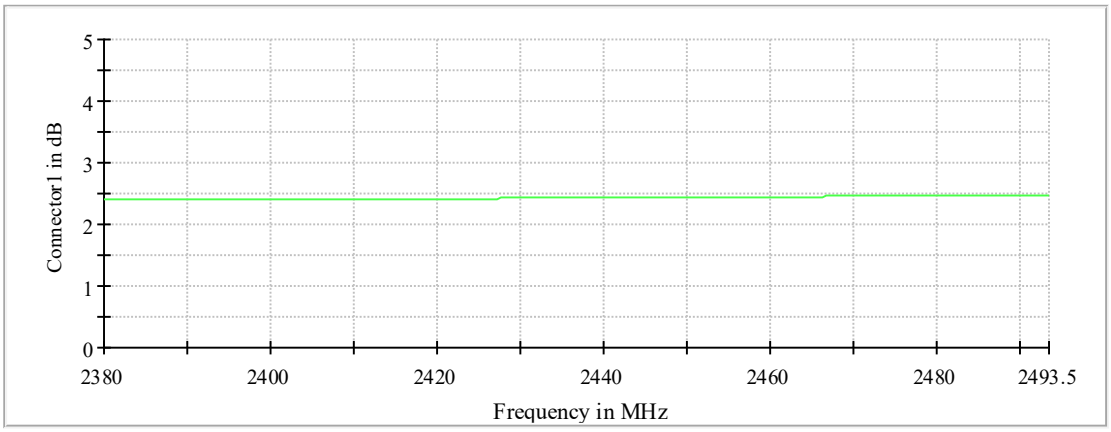


Gain



Connector1

Attenuation



Connector1

Emissions in restricted frequency bands (Peak) (2442 MHz; 15.000 dBm; 1 MHz)

Customized settings.

Result

DUT Frequency (MHz)	Result
2442.000000	PASS

Final measurements

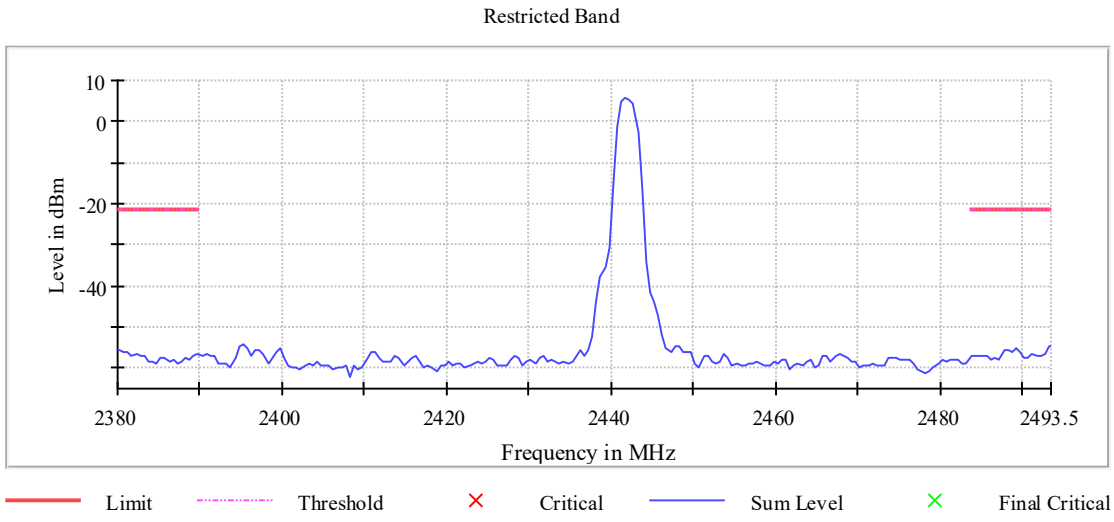
Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result
---	---	---	---	---	---

Pre Measurements

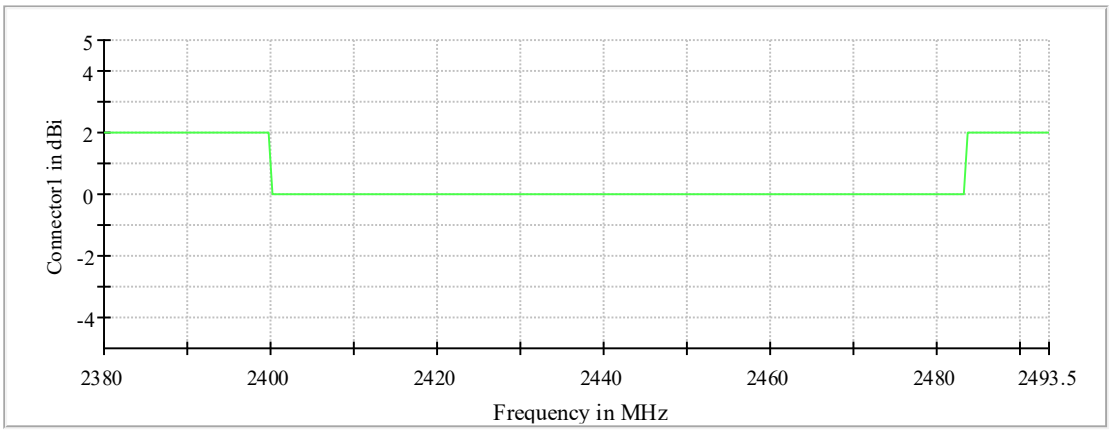
Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
2493.500000	-54.5	33.3	-21.2
2493.250000	-54.5	33.3	-21.2
2489.250000	-55.3	34.1	-21.2
2488.250000	-55.4	34.2	-21.2
2487.750000	-55.6	34.4	-21.2
2380.250000	-55.7	34.5	-21.2
2380.000000	-55.7	34.5	-21.2
2380.750000	-55.9	34.7	-21.2
2489.750000	-56.0	34.8	-21.2
2381.250000	-56.1	34.9	-21.2
2488.750000	-56.3	35.1	-21.2
2389.750000	-56.3	35.1	-21.2
2491.250000	-56.4	35.2	-21.2
2492.750000	-56.5	35.3	-21.2
2382.250000	-56.7	35.5	-21.2

Measurement Settings

Start Frequency (MHz)	Stop Frequency (MHz)	Pre Measurement	Final Measurement
2380.000000	2493.500000	1	1

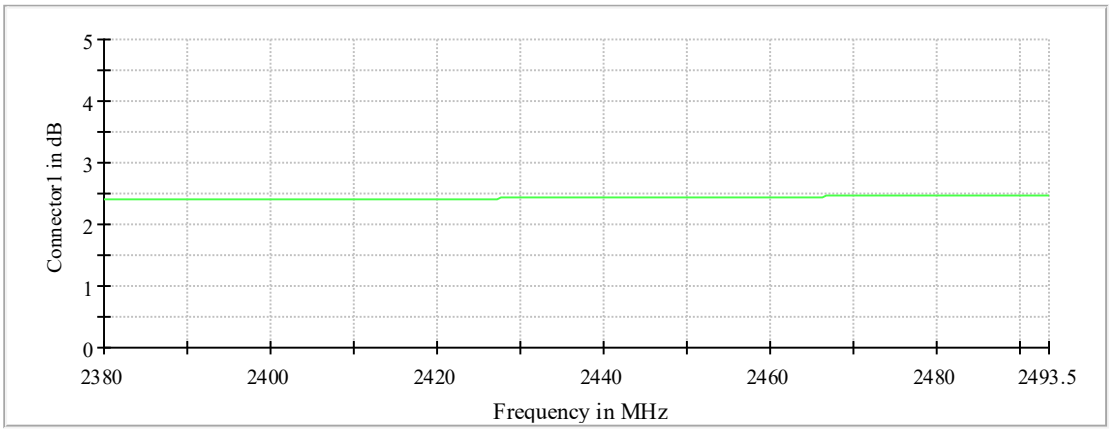


Gain



Connector1

Attenuation



Connector1

Band Edge low (2480 MHz; 15.000 dBm; 1 MHz)

Customized settings.

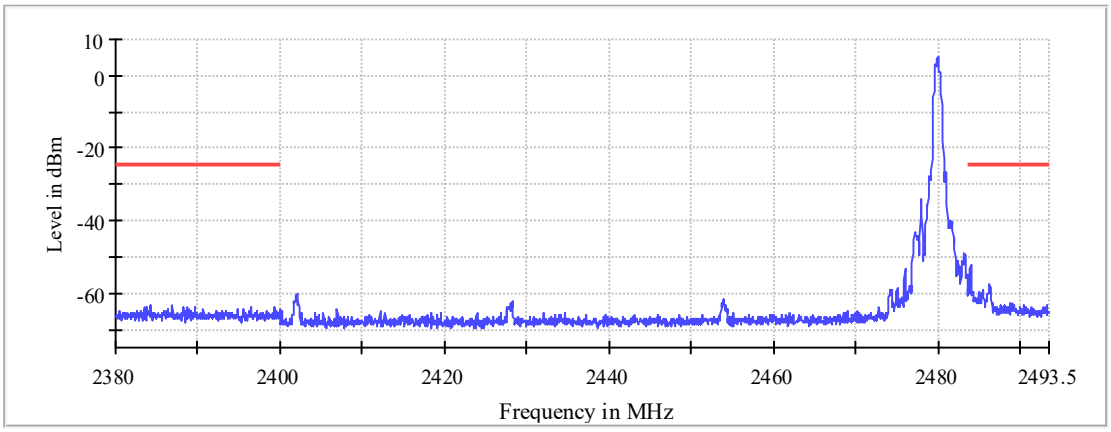
Result

DUT Frequency (MHz)	Result
2480.000000	PASS

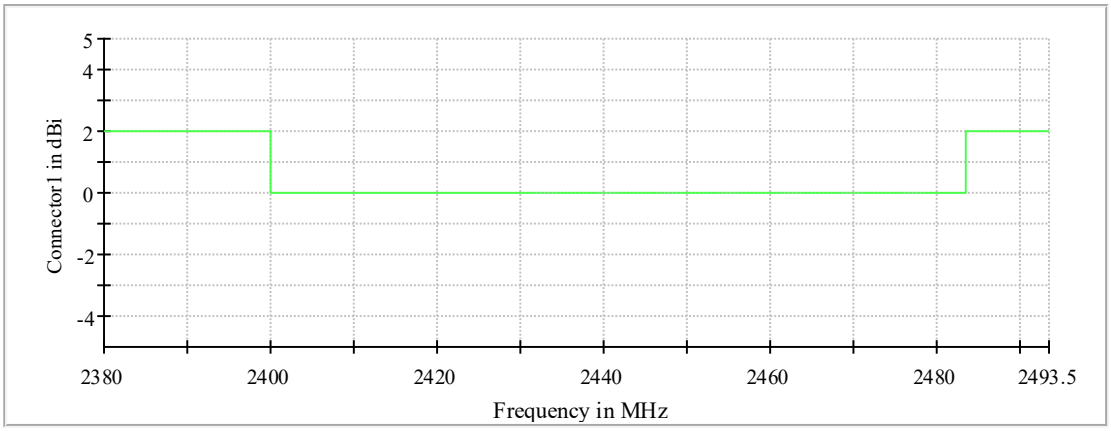
Measurements

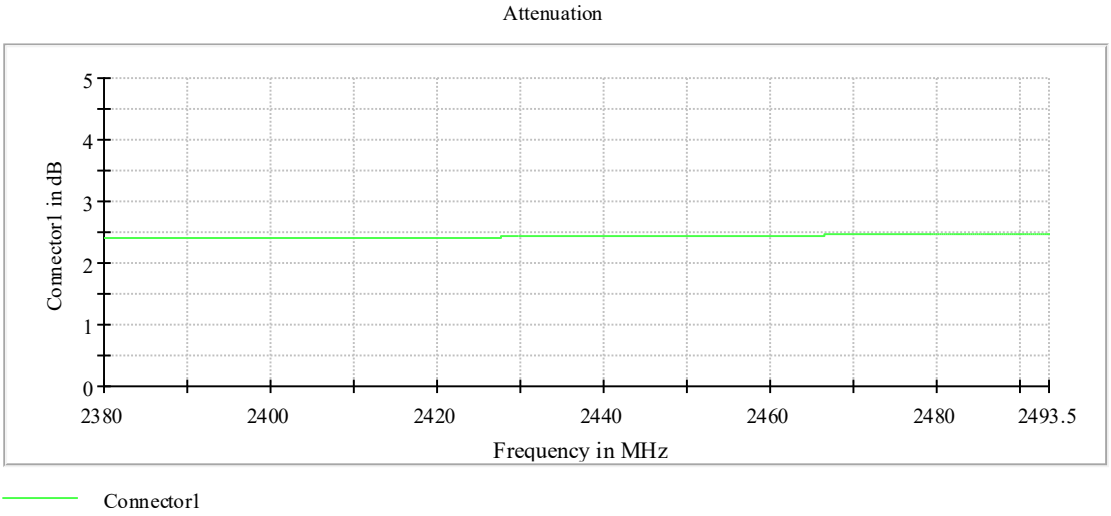
Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
2483.975000	-51.9	27.3	-24.6	PASS
2483.925000	-53.4	28.8	-24.6	PASS
2483.525000	-54.6	30.0	-24.6	PASS
2484.025000	-55.1	30.5	-24.6	PASS
2483.575000	-56.9	32.3	-24.6	PASS
2483.875000	-57.2	32.6	-24.6	PASS
2486.275000	-57.7	33.1	-24.6	PASS
2484.075000	-57.8	33.1	-24.6	PASS
2484.125000	-57.9	33.3	-24.6	PASS
2483.825000	-58.2	33.6	-24.6	PASS
2486.225000	-58.6	34.0	-24.6	PASS
2486.325000	-58.6	34.0	-24.6	PASS
2486.375000	-58.8	34.2	-24.6	PASS
2483.725000	-58.9	34.3	-24.6	PASS
2485.425000	-59.2	34.6	-24.6	PASS

Band Edge



Gain





Emissions in restricted frequency bands (Average) (2480 MHz; 15.000 dBm; 1 MHz)

Customized settings.

Result

DUT Frequency (MHz)	Result
2480.000000	PASS

Final measurements

Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result
---	---	---	---	---	---

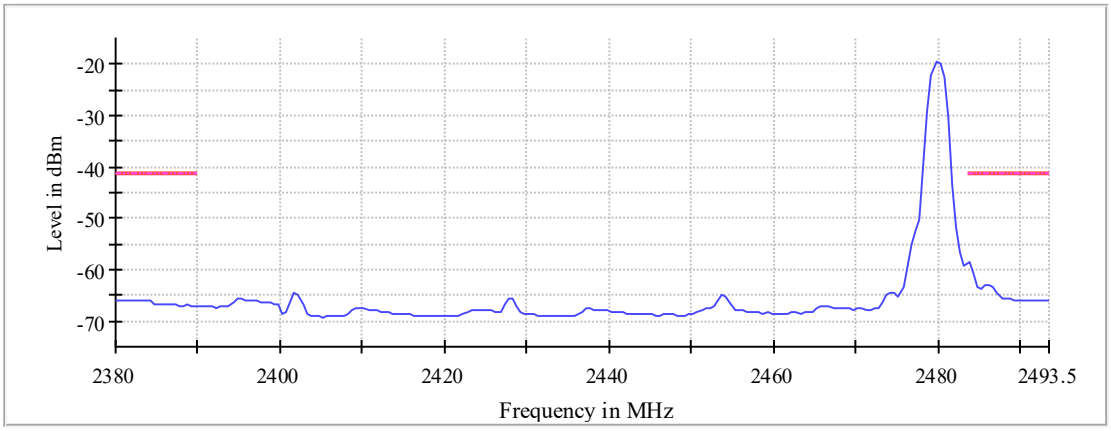
Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
2483.750000	-58.3	17.1	-41.2
2484.250000	-60.6	19.4	-41.2
2486.250000	-62.9	21.7	-41.2
2485.750000	-62.9	21.7	-41.2
2484.750000	-63.2	22.0	-41.2
2486.750000	-63.5	22.3	-41.2
2485.250000	-63.7	22.5	-41.2
2487.250000	-64.6	23.4	-41.2
2487.750000	-65.6	24.4	-41.2
2488.250000	-65.7	24.5	-41.2
2488.750000	-65.7	24.5	-41.2
2491.250000	-65.8	24.6	-41.2
2490.750000	-65.8	24.6	-41.2
2381.750000	-65.9	24.7	-41.2
2490.250000	-65.9	24.7	-41.2

Measurement Settings

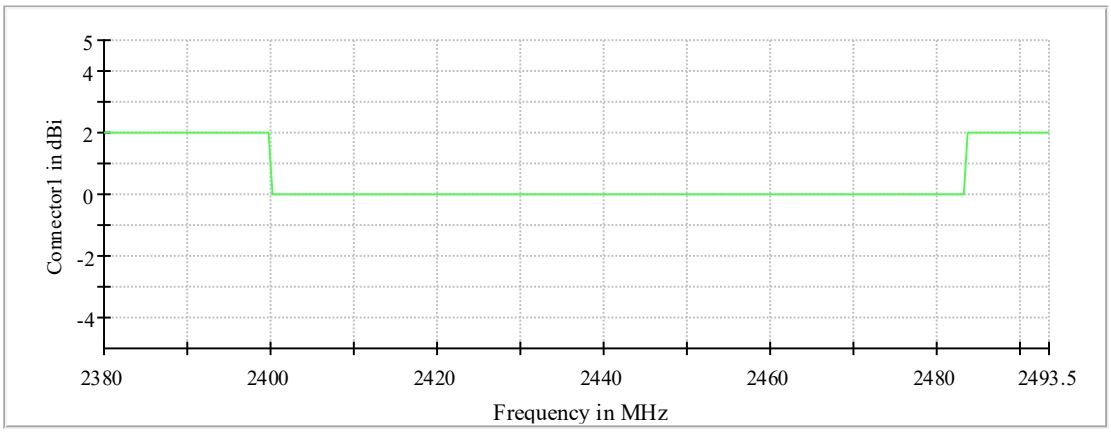
Start Frequency (MHz)	Stop Frequency (MHz)	Pre Measurement	Final Measurement
2380.000000	2493.500000	1	1

Restricted Band

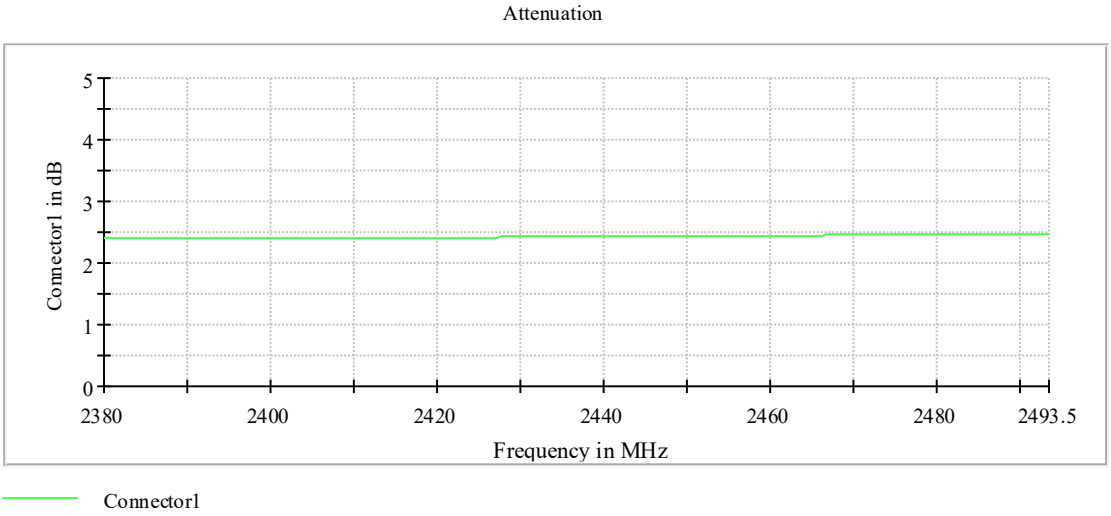


Limit Threshold Critical Sum Level Final Critical

Gain



Connector1



Emissions in restricted frequency bands (Peak) (2480 MHz; 15.000 dBm; 1 MHz)

Customized settings.

Result

DUT Frequency (MHz)	Result
2480.000000	PASS

Final measurements

Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result
---	---	---	---	---	---

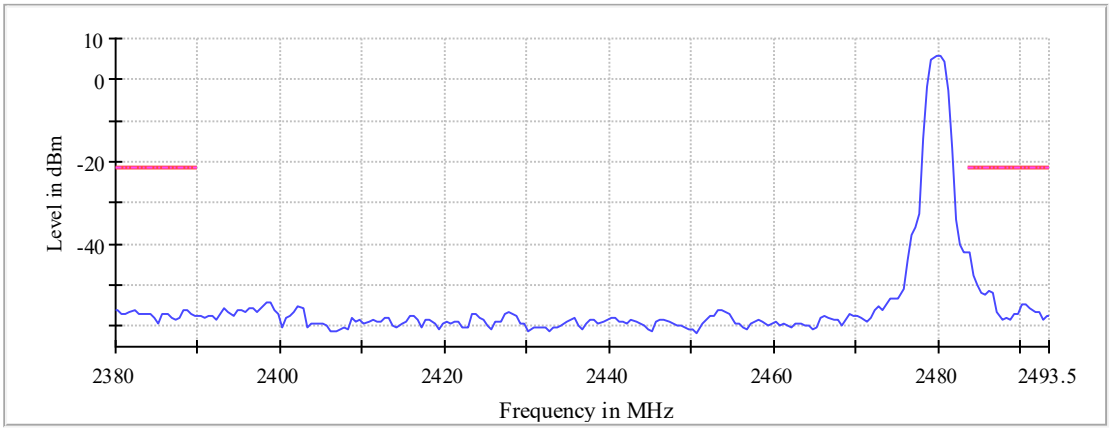
Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
2483.750000	-42.0	20.8	-21.2
2484.250000	-47.7	26.5	-21.2
2484.750000	-50.2	29.0	-21.2
2486.250000	-51.2	30.0	-21.2
2486.750000	-51.7	30.5	-21.2
2485.250000	-52.0	30.8	-21.2
2485.750000	-52.5	31.3	-21.2
2490.750000	-54.7	33.5	-21.2
2490.250000	-54.9	33.7	-21.2
2491.250000	-55.8	34.6	-21.2
2388.750000	-55.9	34.7	-21.2
2388.250000	-56.0	34.8	-21.2
2380.250000	-56.3	35.1	-21.2
2380.000000	-56.3	35.1	-21.2
2382.250000	-56.3	35.1	-21.2

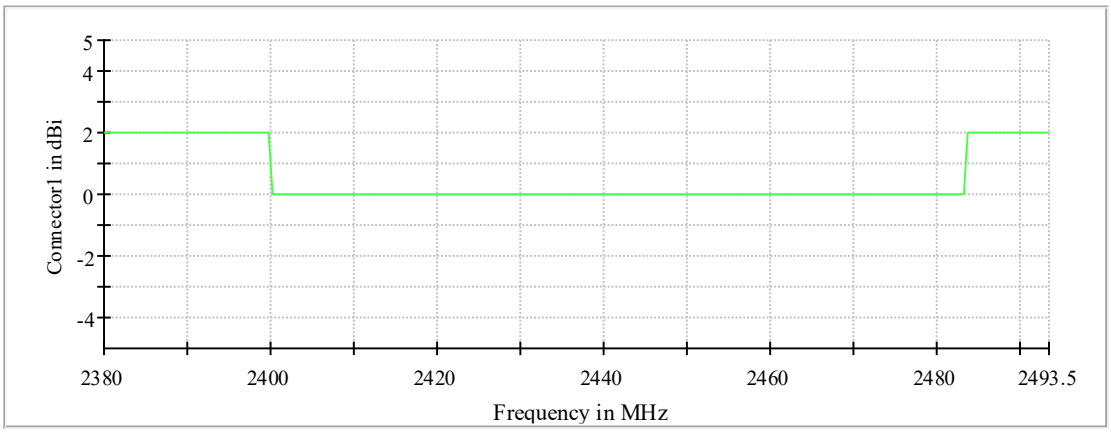
Measurement Settings

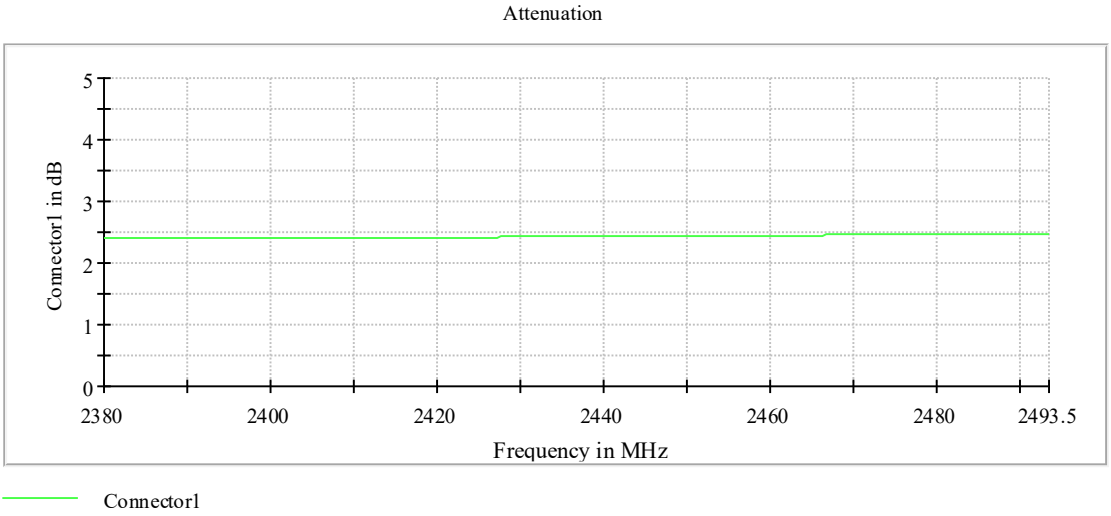
Start Frequency (MHz)	Stop Frequency (MHz)	Pre Measurement	Final Measurement
2380.000000	2493.500000	1	1

Restricted Band



Gain




Attenuation
Connector1 in dB
5
4
3
2
1
0
2380
2400
2420
2440
2460
2480
2493.5
Frequency in MHz
Connector1

-- End of Report--