



427 West 12800 South
Draper, UT 84020

Test Report Attachment

FCC ID	SWX-UTR
ISED ID	6545A-UTR
Equipment Under Test	UTR
Test Report Serial Number	TR10555_01
Date of Tests	3 November 2025
Report Issue Date	24 November 2025

Test Personnel

Testing performed by	Evan Hartzell
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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 2026. 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 2026. Unified Compliance Laboratory has been assigned Conformity Assessment Number US0223 by ISED and MRA US5037.



Revision History		
Revision	Description	Date
01	Original Report Release	24 November 2025

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1 RF Conducted Bluetooth

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 Bluetooth Mode

1.1.1 Summary

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

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

Result

DUT Frequency (MHz)	Gated RMS (dBm)	Limit Max (dBm)	Gated EIRP (dBm)	DutyCycle (%)	Result
2402.000000	5.7	30.0	-0.3	62.661	PASS

OSP PowerMeter settings

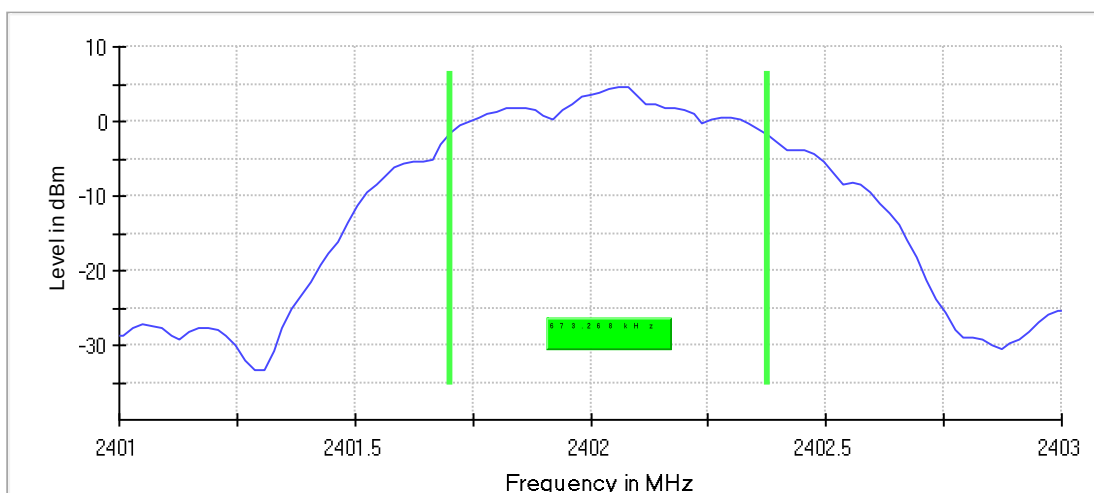
Setting	Instrument Value	Target Value
Measurement Time	1.000 s	1.000 s
Points	1000000	1000000
Time resolution	1.000 μ s	1.000 μ s

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

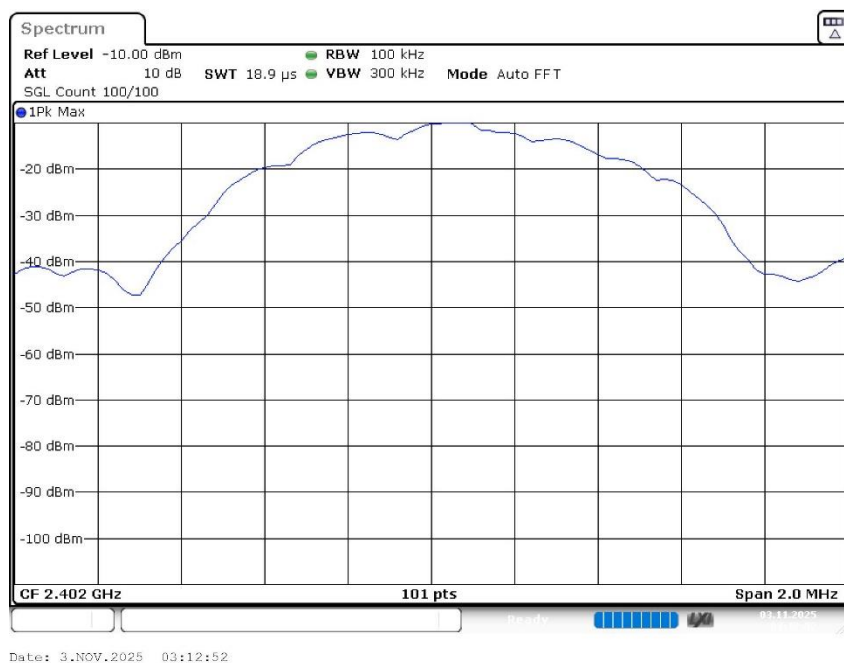
6 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2402.000000	0.673268	0.500000	---	2401.702970	2402.376238

DUT Frequency (MHz)	Max Level (dBm)	Result
2402.000000	4.7	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 μ s	AUTO
Reference Level	-10.000 dBm	-10.000 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

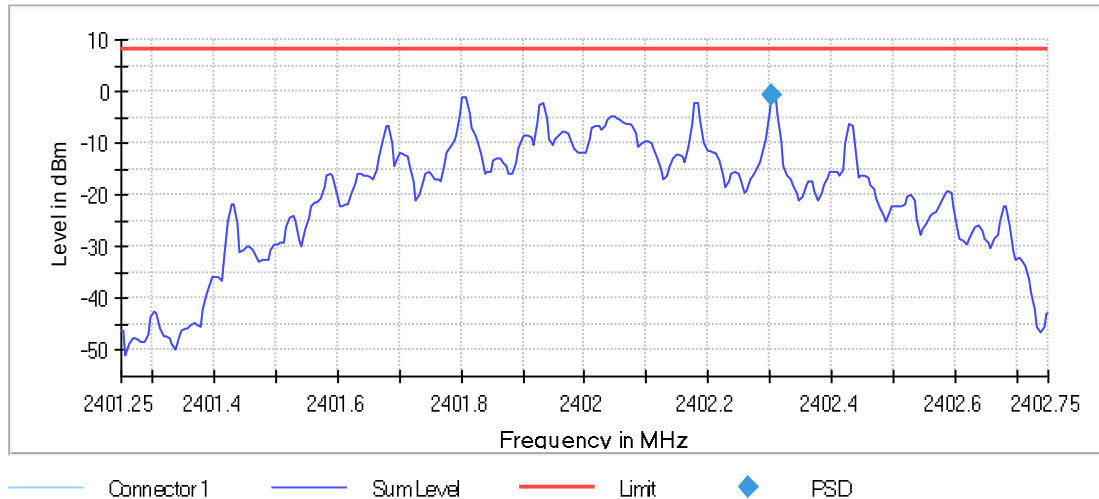
Peak Power Spectral Density (2402 MHz; 15.000 dBm; 1 MHz)

Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
2402.000000	2402.302500	-0.688	8.0	PASS

Ports

Port	State
1	used



Measurement

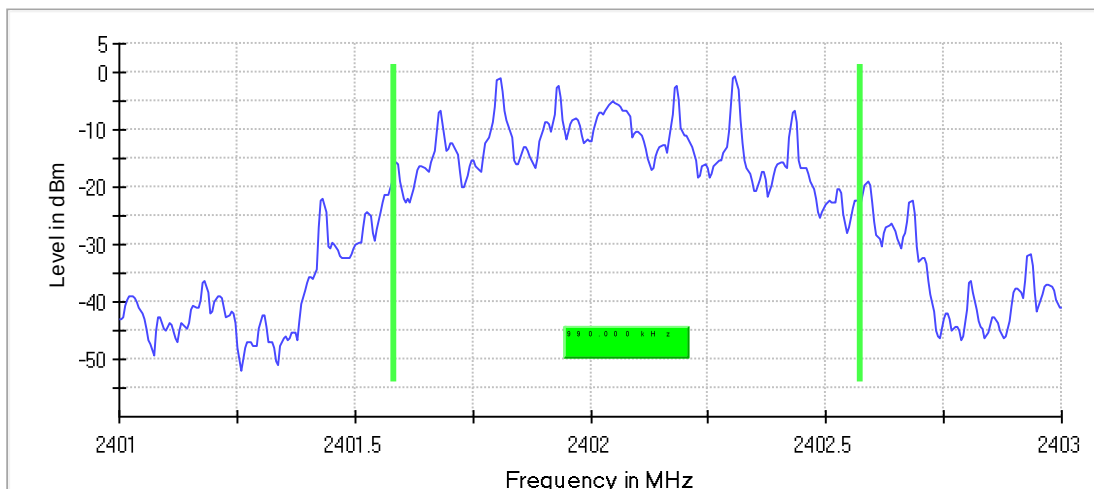
Setting	Instrument Value	Target Value
Start Frequency	2.40125 GHz	2.40125 GHz
Stop Frequency	2.40275 GHz	2.40275 GHz
Span	1.500 MHz	1.500 MHz
RBW	10.000 kHz	<= 10.000 kHz
VBW	30.000 kHz	>= 30.000 kHz
SweepPoints	300	~ 300
SweepTime	1.500 ms	AUTO
Reference Level	-10.000 dBm	-10.000 dBm
Attenuation	10.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	Sweep
Preamp	off	off

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

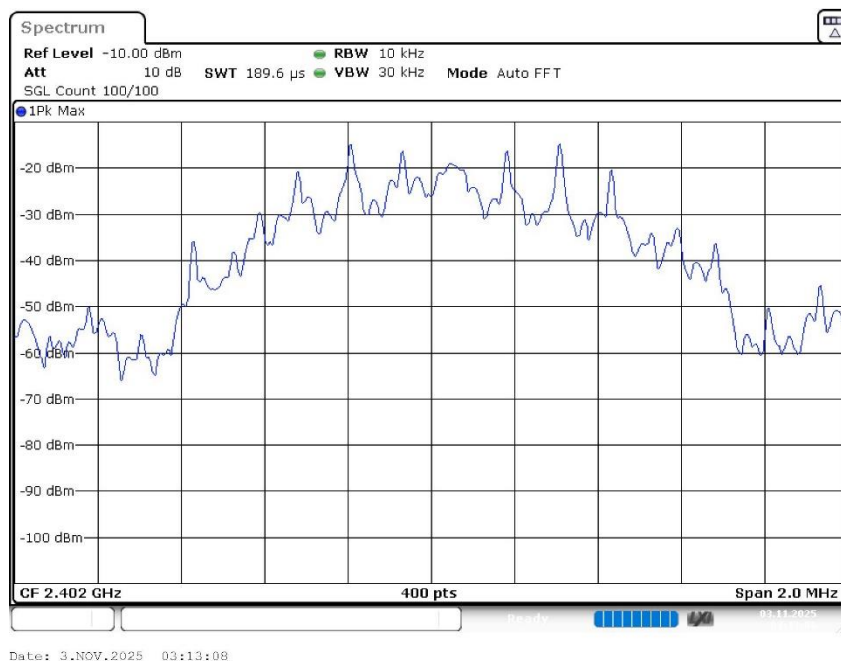
99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2402.000000	0.990000	---	---	2401.582500	2402.572500

DUT Frequency (MHz)	Result
2402.000000	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	10.000 kHz	>= 10.000 kHz
VBW	30.000 kHz	>= 30.000 kHz
SweepPoints	400	~ 400
Sweptime	189.648 μ s	AUTO
Reference Level	-10.000 dBm	-10.000 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

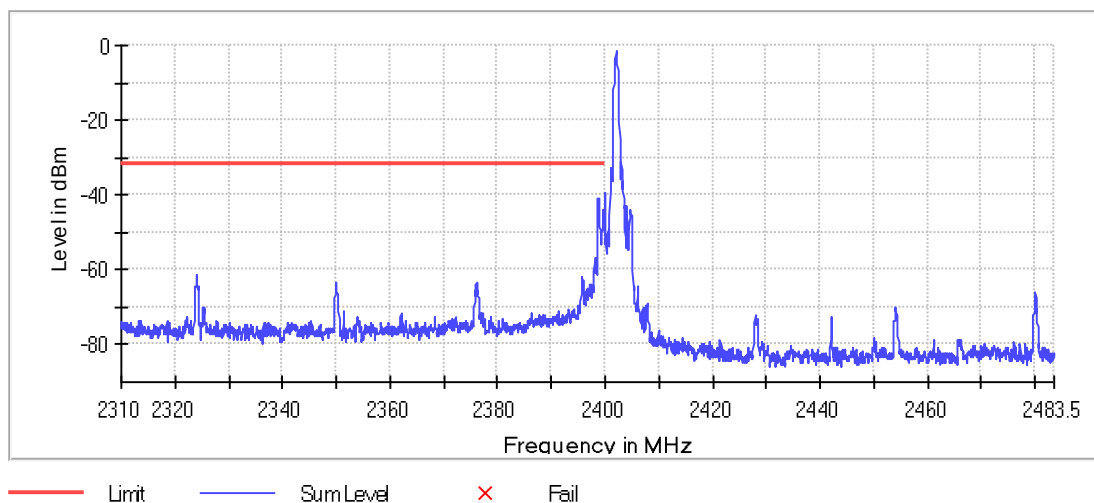
Band Edge low (2402 MHz; 15.000 dBm; 1 MHz)

Result

DUT Frequency (MHz)	Result
2402.000000	PASS

Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
2399.975000	-39.2	7.4	-31.7	PASS
2398.775000	-41.0	9.3	-31.7	PASS
2398.725000	-41.1	9.3	-31.7	PASS
2398.825000	-42.0	10.2	-31.7	PASS
2398.675000	-42.6	10.9	-31.7	PASS
2398.975000	-44.0	12.3	-31.7	PASS
2399.575000	-44.0	12.3	-31.7	PASS
2398.925000	-44.1	12.3	-31.7	PASS
2398.875000	-44.1	12.4	-31.7	PASS
2399.625000	-44.2	12.4	-31.7	PASS
2399.025000	-44.6	12.9	-31.7	PASS
2399.925000	-44.9	13.2	-31.7	PASS
2399.525000	-45.3	13.5	-31.7	PASS
2398.625000	-45.6	13.8	-31.7	PASS
2399.675000	-45.9	14.2	-31.7	PASS



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 μ s	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 μ s	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)

Result

DUT Frequency (MHz)	Result
2402.000000	PASS

Final measurements

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

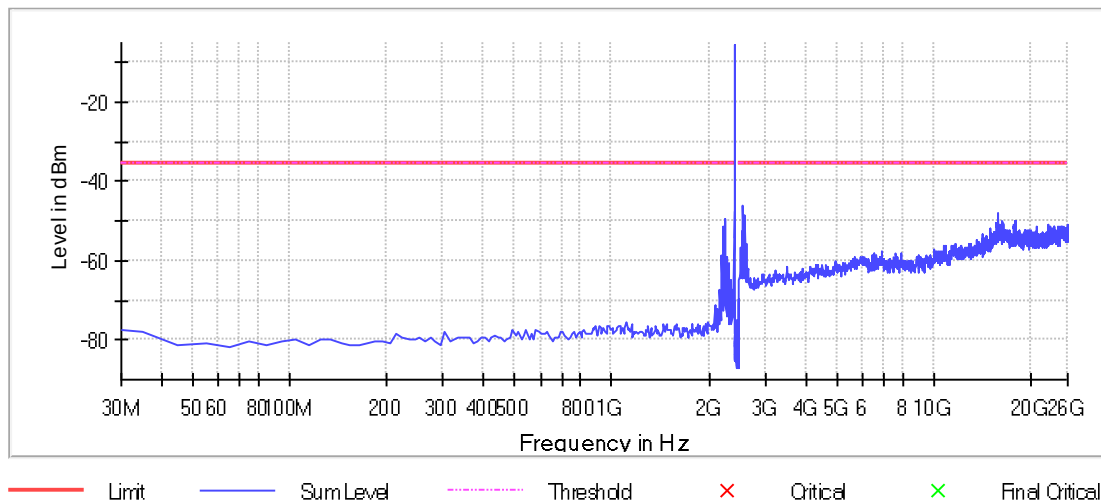
Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
2558.456970	-46.0	10.5	-35.5
2395.021008	-47.4	11.8	-35.5
15730.895134	-48.2	12.6	-35.5

2588.439758	-48.4	12.8	-35.5
15740.889397	-48.9	13.3	-35.5
15810.849235	-49.4	13.8	-35.5
2245.651261	-49.7	14.1	-35.5
15710.906609	-49.7	14.2	-35.5
16350.539418	-49.8	14.3	-35.5
17789.713238	-50.0	14.4	-35.5
17839.684552	-50.1	14.5	-35.5
15770.872184	-50.3	14.8	-35.5
15700.912346	-50.3	14.8	-35.5
15660.935295	-50.5	14.9	-35.5
15680.923821	-50.6	15.1	-35.5

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



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)

Result

DUT Frequency (MHz)	Result
2402.000000	PASS

Final measurements

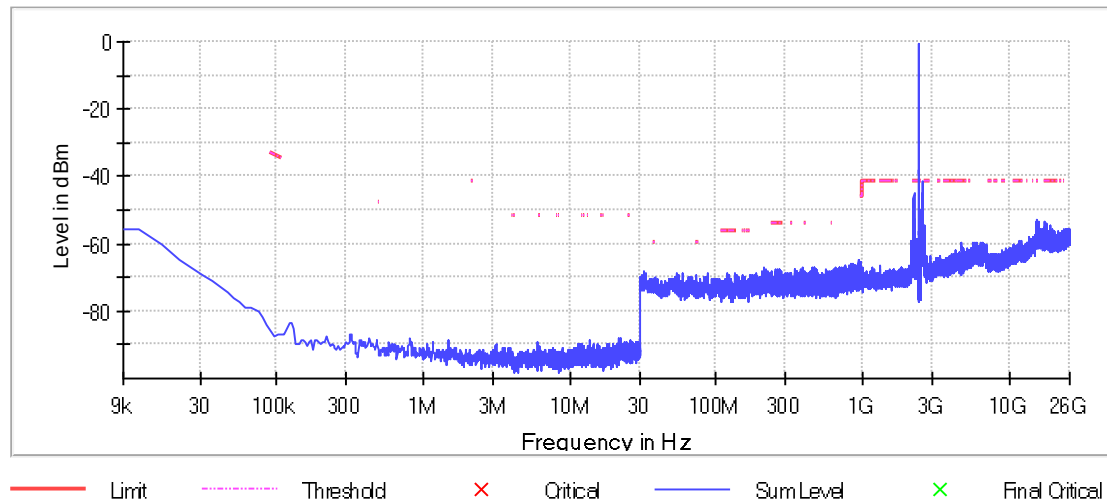
Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result
---	---	---	---	---	---

Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
2246.250000	-44.8	3.6	-41.2
2246.750000	-45.0	3.8	-41.2
2245.750000	-46.4	5.2	-41.2
2220.750000	-49.0	7.8	-41.2
2220.250000	-49.5	8.3	-41.2
2247.250000	-49.5	8.3	-41.2
2219.750000	-50.5	9.3	-41.2
38.125000	-69.8	9.9	-59.9
73.025000	-69.9	10.0	-59.9
38.175000	-70.2	10.3	-59.9
38.075000	-70.7	10.8	-59.9
2272.750000	-52.6	11.4	-41.2
2272.250000	-52.7	11.5	-41.2
74.875000	-71.7	11.8	-59.9
15680.650605	-53.0	11.8	-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



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

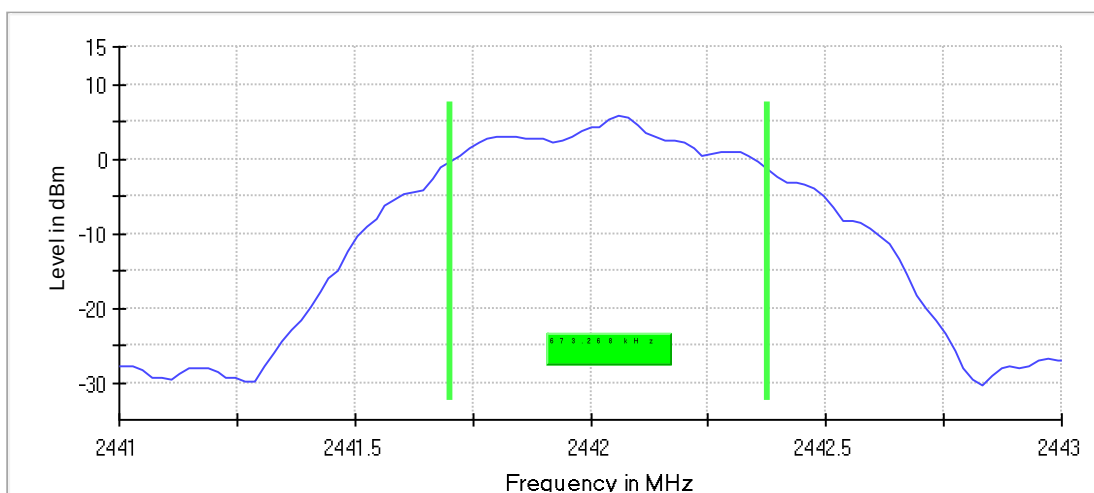
Setting	Instrument Value	Target Value
RBW	10.000 kHz	≤ 10.000 kHz
VBW	30.000 kHz	≥ 30.000 kHz
SweepPoints	5998	~ 5998
SweepTime	1.327 ms	AUTO
Reference Level	-20.000 dBm	-30.000 dBm
Attenuation	10.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	30	30
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off

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

6 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2442.000000	0.673268	0.500000	---	2441.702970	2442.376238

DUT Frequency (MHz)	Max Level (dBm)	Result
2442.000000	5.7	PASS



Bandwidth



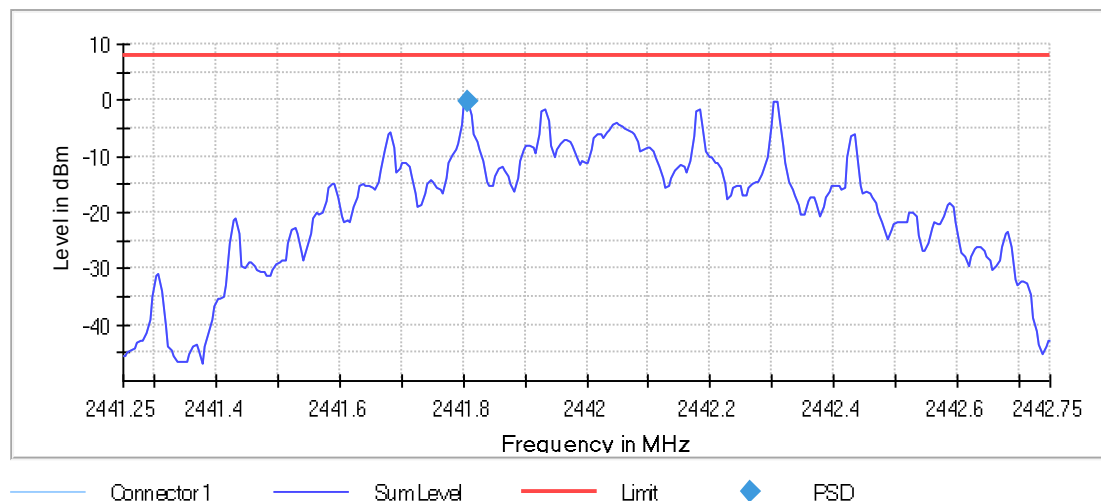
Peak Power Spectral Density (2442 MHz; 15.000 dBm; 1 MHz)

Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
2442.000000	2441.807500	-0.109	8.0	PASS

Ports

Port	State
1	used

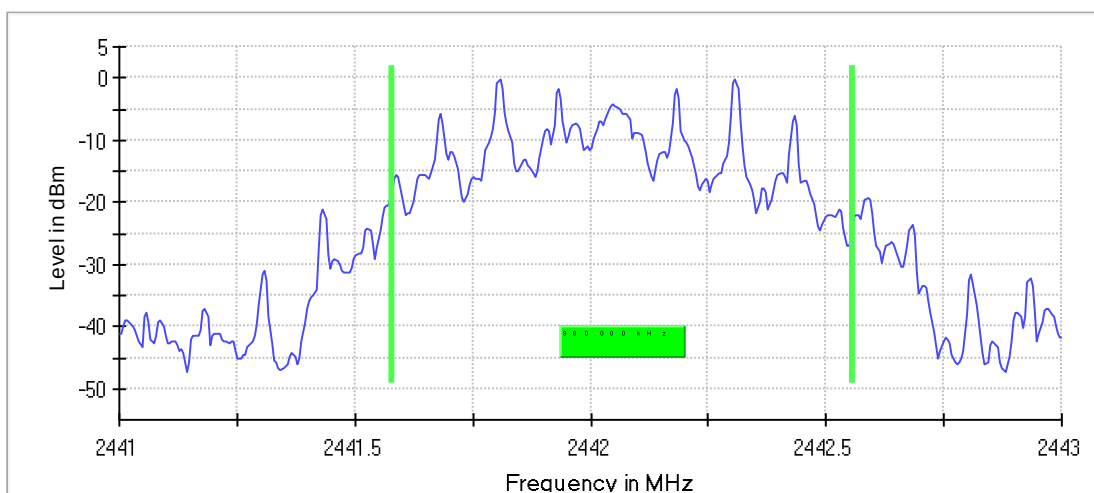


Occupied Channel Bandwidth 99% (2442 MHz; 15.000 dBm; 1 MHz)

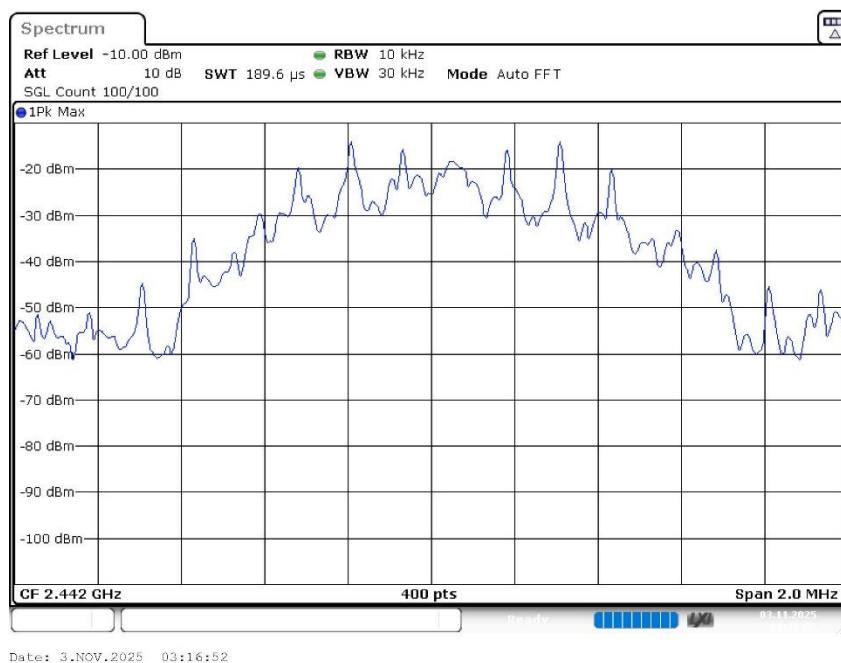
99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2442.000000	0.980000	---	---	2441.577500	2442.557500

DUT Frequency (MHz)	Result
2442.000000	PASS



Bandwidth



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
Sweptime	189.648 μ s	AUTO
Reference Level	-10.000 dBm	-10.000 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 (2442 MHz; 15.000 dBm; 1 MHz)

Result

DUT Frequency (MHz)	Result
2442.000000	PASS

Final measurements

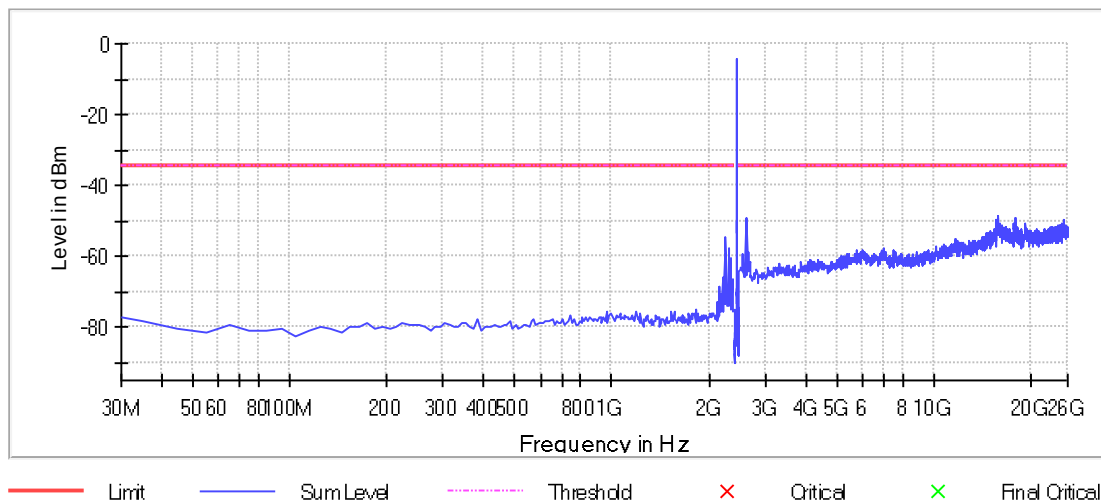
Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result
---	---	---	---	---	---

Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
15730.895134	-48.5	14.0	-34.5
15750.883659	-48.9	14.5	-34.5
17789.713238	-49.0	14.5	-34.5
2598.434020	-49.1	14.6	-34.5
15820.843498	-49.2	14.7	-34.5
15690.918083	-49.4	14.9	-34.5
25135.496281	-49.5	15.0	-34.5
15670.929558	-49.9	15.4	-34.5
15840.832023	-49.9	15.4	-34.5
2628.416808	-49.9	15.4	-34.5
15740.889397	-50.1	15.6	-34.5
15710.906609	-50.3	15.8	-34.5
15720.900871	-50.4	15.9	-34.5
16090.688589	-50.5	16.0	-34.5
17819.696026	-50.6	16.1	-34.5

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



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

Result

DUT Frequency (MHz)	Result
2442.000000	PASS

Final measurements

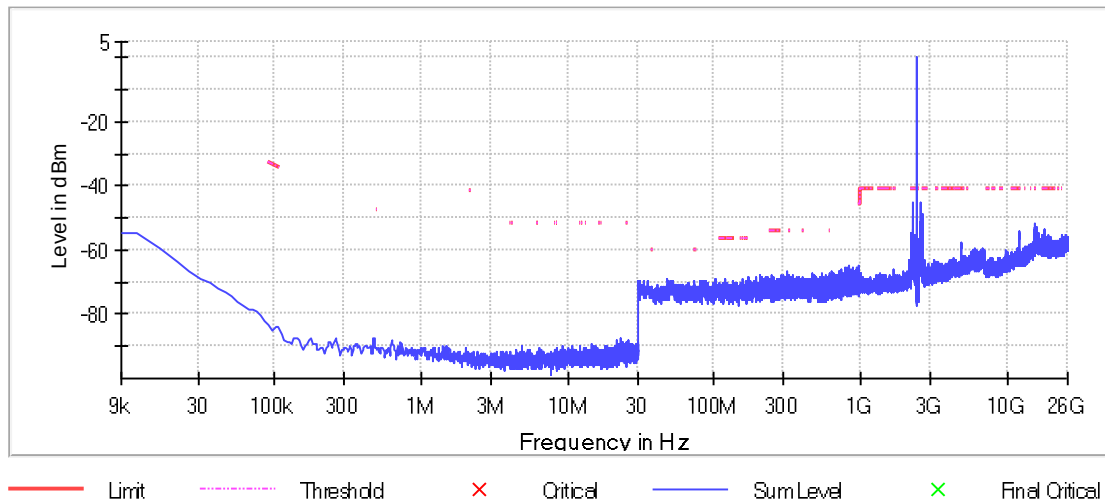
Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result
---	---	---	---	---	---

Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
2286.250000	-45.2	4.0	-41.2
2286.750000	-46.0	4.8	-41.2
2285.750000	-46.7	5.5	-41.2
2260.250000	-49.5	8.3	-41.2
2260.750000	-50.0	8.8	-41.2
2287.250000	-50.2	9.0	-41.2
2259.750000	-50.9	9.7	-41.2
15719.836880	-51.8	10.6	-41.2
73.125000	-70.6	10.7	-59.9
73.075000	-70.9	11.0	-59.9
37.625000	-71.3	11.4	-59.9
37.575000	-71.4	11.5	-59.9
15820.177494	-52.8	11.6	-41.2
73.175000	-71.5	11.6	-59.9
15700.837474	-52.9	11.7	-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



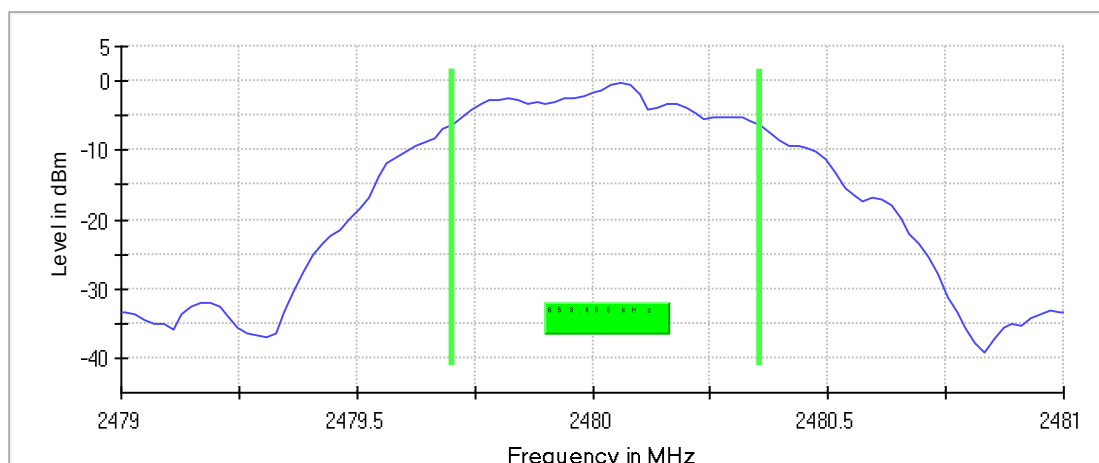
Minimum Emission Bandwidth 6 dB (2480 MHz; 15.000 dBm; 1 MHz)

6 dB Bandwidth

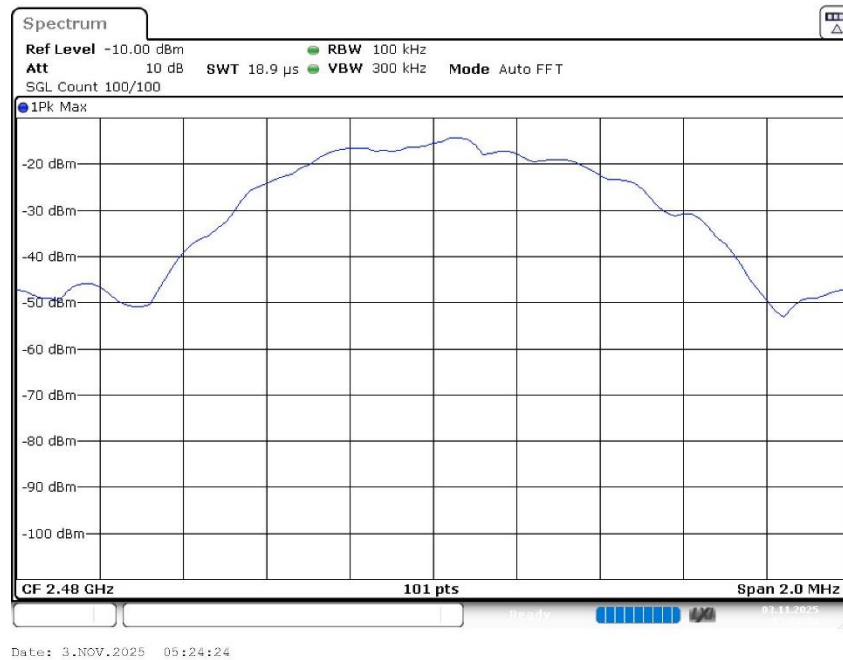
DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2480.000000	0.653466	0.500000	---	2479.702970	2480.356436

DUT Frequency (MHz)	Max Level (dBm)	Result
2480.000000	-0.3	PASS

6 dB Bandwidth



Bandwidth



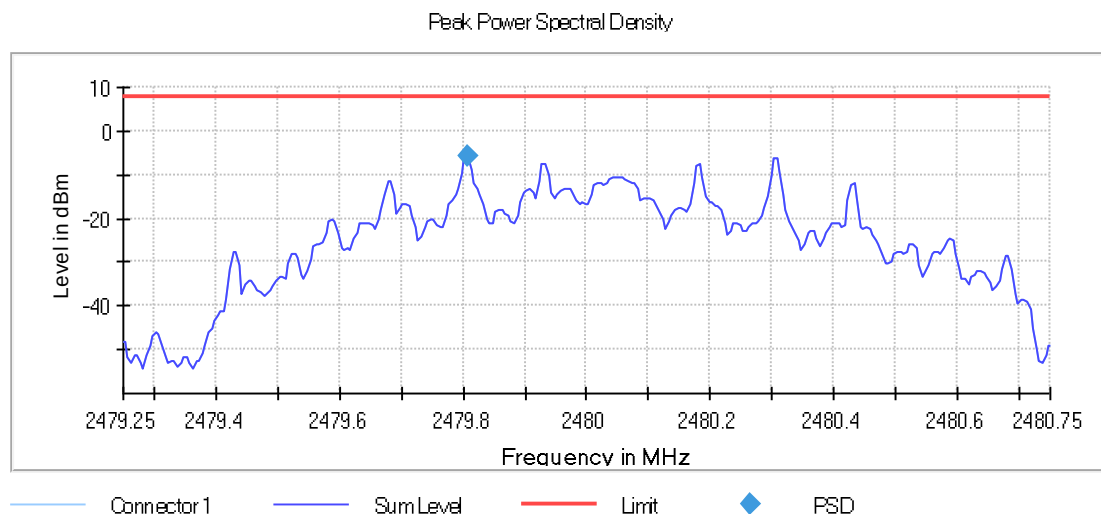
Peak Power Spectral Density (2480 MHz; 15.000 dBm; 1 MHz)

Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
2480.000000	2479.807500	-5.804	8.0	PASS

Ports

Port	State
1	used



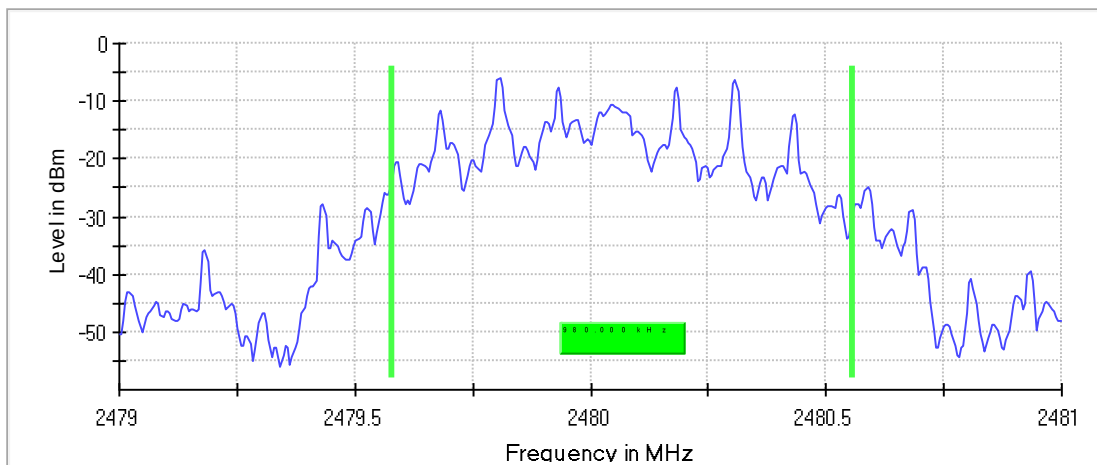
Occupied Channel Bandwidth 99% (2480 MHz; 15.000 dBm; 1 MHz)

99 % Bandwidth

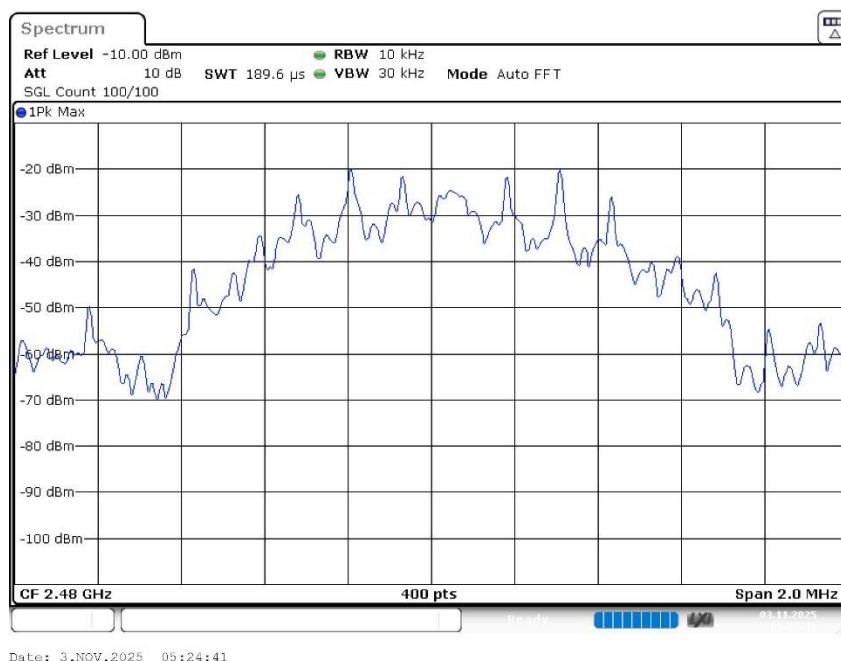
DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2480.000000	0.980000	---	---	2479.577500	2480.557500

DUT Frequency (MHz)	Result
2480.000000	PASS

99 % Bandwidth



Bandwidth



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 μ s	AUTO
Reference Level	-10.000 dBm	-10.000 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

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

Result

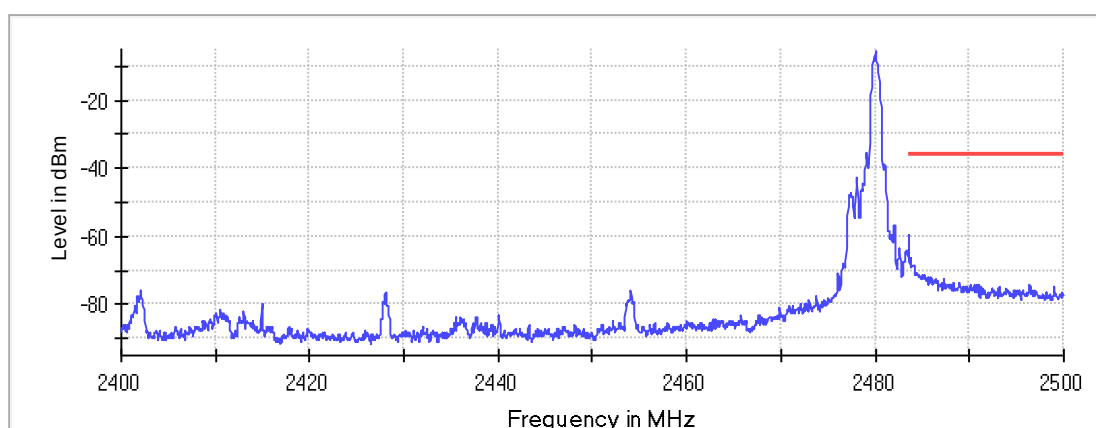
DUT Frequency (MHz)	Result
2480.000000	PASS

Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
2483.525000	-59.6	23.8	-35.8	PASS
2483.575000	-62.8	27.0	-35.8	PASS
2483.625000	-66.1	30.3	-35.8	PASS

2483.775000	-66.5	30.7	-35.8	PASS
2483.825000	-66.6	30.8	-35.8	PASS
2483.675000	-67.4	31.7	-35.8	PASS
2483.725000	-68.5	32.7	-35.8	PASS
2484.075000	-68.5	32.7	-35.8	PASS
2483.925000	-68.6	32.8	-35.8	PASS
2484.025000	-68.6	32.8	-35.8	PASS
2483.975000	-68.7	32.9	-35.8	PASS
2484.125000	-68.7	32.9	-35.8	PASS
2483.875000	-68.9	33.1	-35.8	PASS
2484.175000	-69.6	33.8	-35.8	PASS
2484.475000	-70.6	34.9	-35.8	PASS

Band Edge



— Limit — Sum Level × Fail

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

Result

DUT Frequency (MHz)	Result
2480.000000	PASS

Final measurements

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

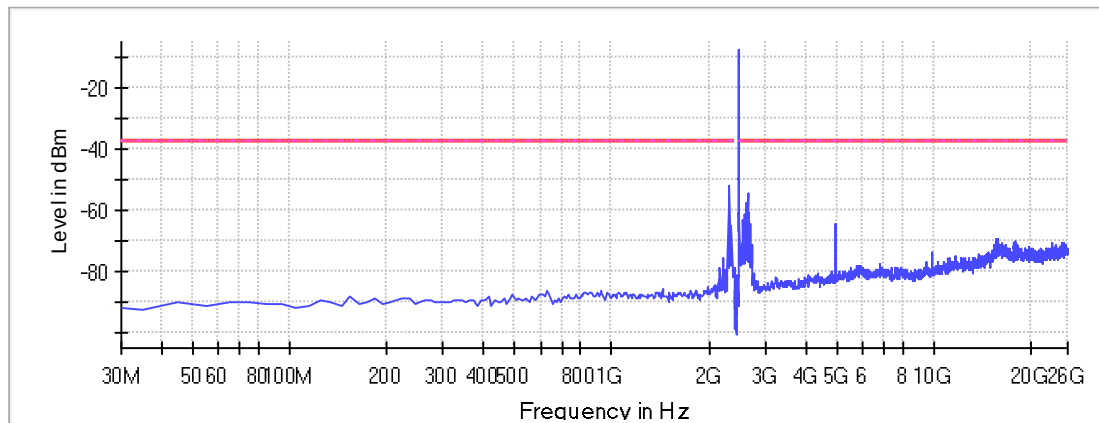
Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
2325.315126	-51.9	14.2	-37.7
2638.411071	-54.1	16.4	-37.7
2608.428283	-57.4	19.7	-37.7
2295.441176	-58.1	20.3	-37.7
2488.497131	-60.5	22.7	-37.7
2658.399596	-60.5	22.8	-37.7
2588.439758	-60.9	23.2	-37.7
2558.456970	-63.3	25.6	-37.7

2578.445495	-63.7	25.9	-37.7
2688.382384	-64.1	26.3	-37.7
4957.080004	-64.4	26.7	-37.7
2355.189076	-65.2	27.5	-37.7
2345.231092	-65.6	27.9	-37.7
15740.889397	-69.2	31.4	-37.7
15670.929558	-69.3	31.5	-37.7

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

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

Result

DUT Frequency (MHz)	Result
2480.000000	PASS

Final measurements

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

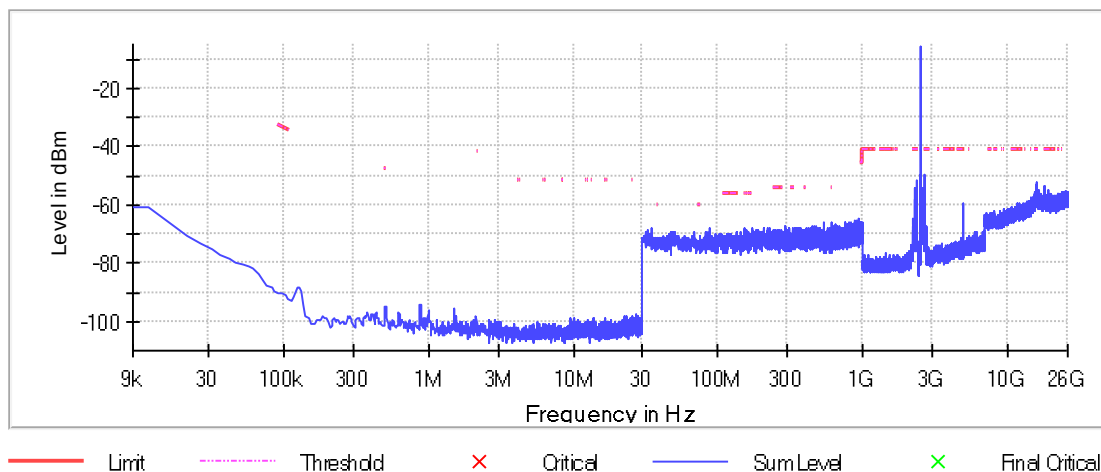
Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
2483.750000	-49.8	8.6	-41.2
2324.250000	-51.3	10.1	-41.2
2324.750000	-51.6	10.4	-41.2
15736.461361	-52.0	10.8	-41.2

2323.750000	-52.3	11.1	-41.2
171.425000	-67.7	11.3	-56.4
171.475000	-67.7	11.3	-56.4
38.075000	-71.2	11.3	-59.9
15756.054498	-52.6	11.4	-41.2
38.125000	-71.3	11.4	-59.9
15747.148527	-52.7	11.5	-41.2
15759.616887	-52.7	11.5	-41.2
15824.333615	-52.7	11.5	-41.2
74.825000	-71.7	11.8	-59.9
15693.712696	-53.0	11.8	-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



1.2 Band Edge

1.2.1 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

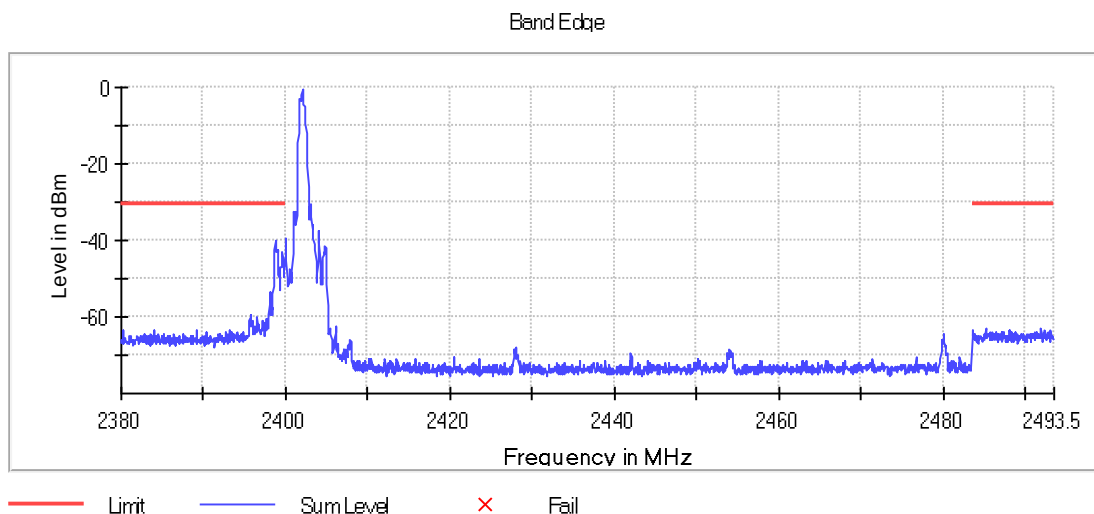
Band Edge low (2402 MHz; 15.000 dBm; 1 MHz)

Result

DUT Frequency (MHz)	Result
2402.000000	PASS

Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
2399.975000	-39.4	8.7	-30.7	PASS
2398.725000	-40.2	9.5	-30.7	PASS
2398.775000	-40.3	9.6	-30.7	PASS
2398.825000	-41.0	10.3	-30.7	PASS
2398.875000	-42.1	11.4	-30.7	PASS
2399.025000	-42.4	11.7	-30.7	PASS
2398.675000	-42.6	11.9	-30.7	PASS
2398.925000	-42.8	12.1	-30.7	PASS
2399.575000	-43.0	12.3	-30.7	PASS
2398.975000	-43.1	12.4	-30.7	PASS
2399.625000	-43.1	12.4	-30.7	PASS
2399.925000	-43.8	13.2	-30.7	PASS
2399.525000	-44.0	13.3	-30.7	PASS
2399.075000	-44.2	13.5	-30.7	PASS
2398.625000	-44.7	14.0	-30.7	PASS



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)

Result

DUT Frequency (MHz)	Result
2402.000000	PASS

Final measurements

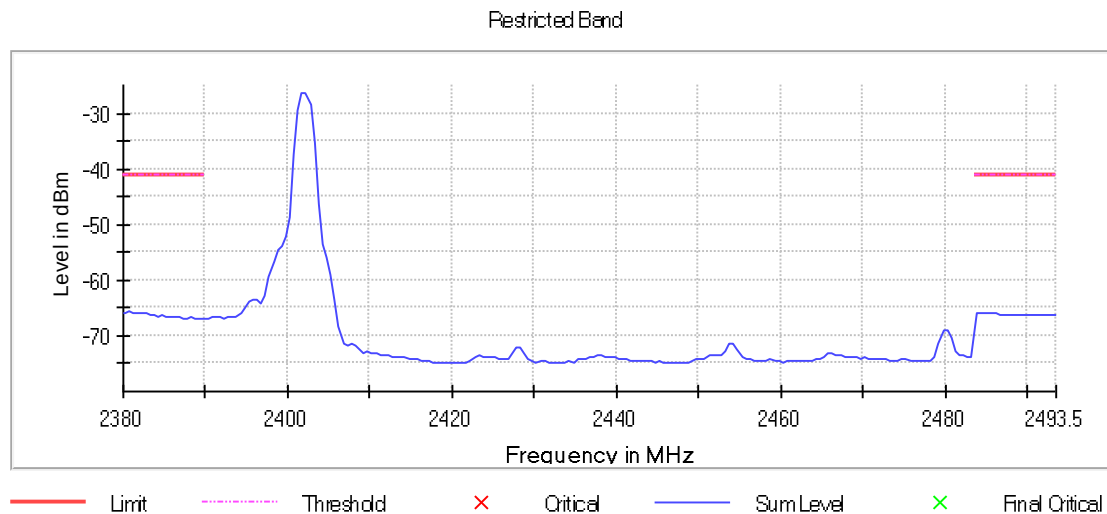
Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result
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Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
2380.750000	-65.7	24.5	-41.2
2380.250000	-65.8	24.6	-41.2
2380.000000	-65.8	24.6	-41.2
2381.250000	-65.8	24.6	-41.2
2483.750000	-65.9	24.7	-41.2
2484.750000	-65.9	24.7	-41.2
2382.250000	-66.0	24.8	-41.2
2486.250000	-66.0	24.8	-41.2
2484.250000	-66.0	24.8	-41.2
2382.750000	-66.0	24.8	-41.2
2381.750000	-66.0	24.8	-41.2
2485.750000	-66.0	24.8	-41.2
2485.250000	-66.1	24.9	-41.2
2491.250000	-66.1	24.9	-41.2
2492.250000	-66.1	24.9	-41.2

Measurement Settings

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



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)

Result

DUT Frequency (MHz)	Result
2402.000000	PASS

Final measurements

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

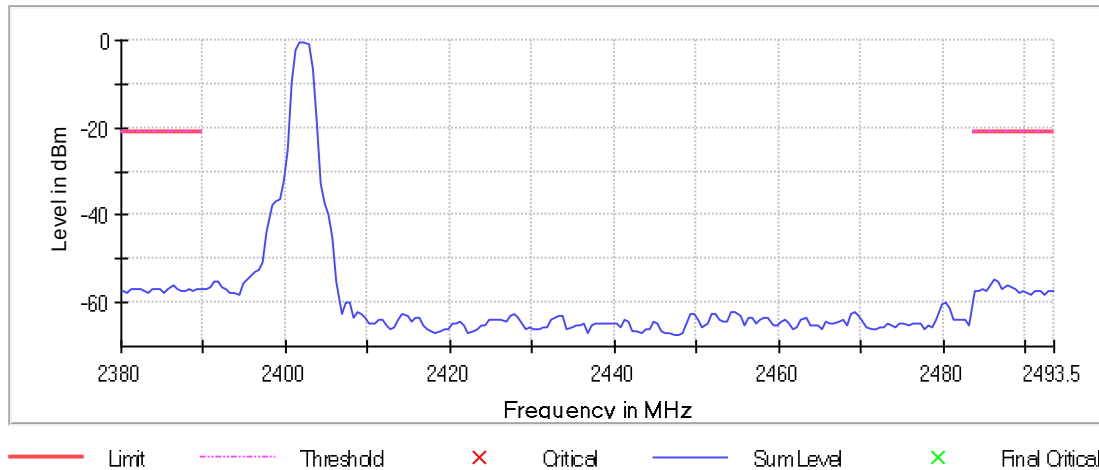
Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
2486.250000	-54.6	33.4	-21.2
2486.750000	-55.1	33.9	-21.2
2485.750000	-56.1	34.9	-21.2

2386.250000	-56.1	34.9	-21.2
2487.750000	-56.2	35.0	-21.2
2488.250000	-56.2	35.0	-21.2
2487.250000	-56.7	35.5	-21.2
2381.250000	-56.7	35.5	-21.2
2384.250000	-56.8	35.6	-21.2
2386.750000	-56.8	35.6	-21.2
2389.250000	-56.9	35.7	-21.2
2381.750000	-56.9	35.7	-21.2
2385.750000	-56.9	35.7	-21.2
2384.750000	-56.9	35.7	-21.2
2383.750000	-56.9	35.7	-21.2

Measurement Settings

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

Restricted Band



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
Sweptime	15.250 μ s	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)

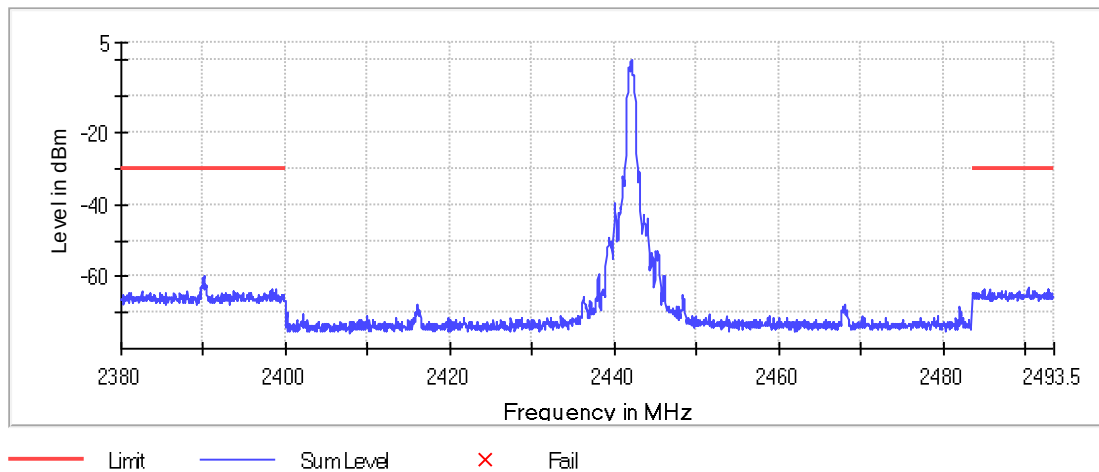
Result

DUT Frequency (MHz)	Result
2442.000000	PASS

Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
2390.075000	-60.0	30.1	-29.9	PASS
2389.975000	-60.4	30.5	-29.9	PASS
2390.025000	-60.5	30.6	-29.9	PASS
2390.225000	-61.8	31.9	-29.9	PASS
2390.325000	-62.2	32.3	-29.9	PASS
2389.875000	-62.4	32.5	-29.9	PASS
2389.775000	-62.6	32.7	-29.9	PASS
2389.825000	-62.8	32.8	-29.9	PASS
2390.275000	-62.9	33.0	-29.9	PASS
2389.925000	-62.9	33.0	-29.9	PASS
2490.325000	-63.0	33.0	-29.9	PASS
2390.175000	-63.2	33.2	-29.9	PASS
2389.675000	-63.3	33.3	-29.9	PASS
2492.775000	-63.3	33.4	-29.9	PASS
2390.125000	-63.3	33.4	-29.9	PASS

Band Edge



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

Result

DUT Frequency (MHz)	Result
2442.000000	PASS

Final measurements

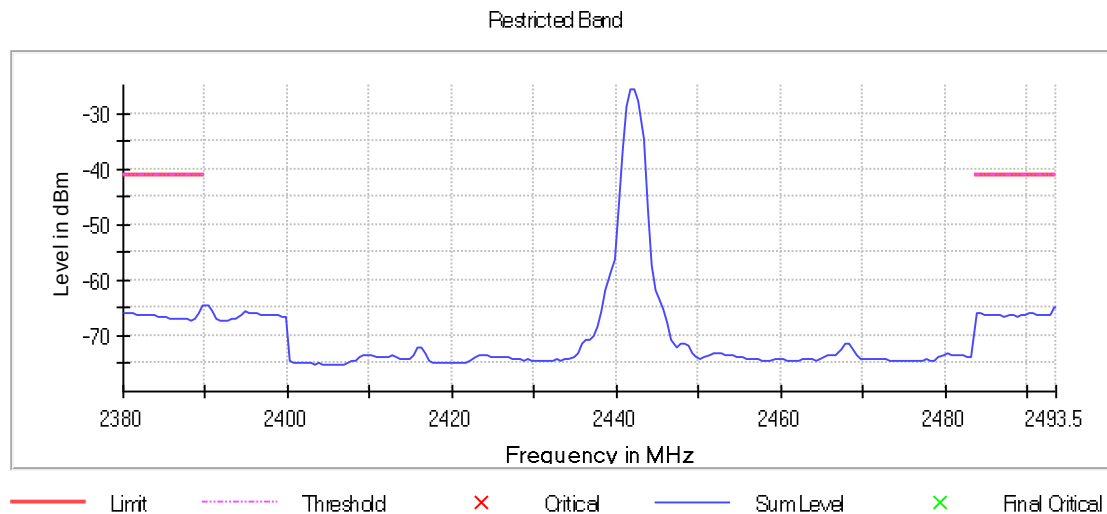
Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result
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Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
2389.750000	-64.4	23.2	-41.2
2493.500000	-65.0	23.8	-41.2
2493.250000	-65.0	23.8	-41.2
2389.250000	-65.8	24.6	-41.2
2380.250000	-65.8	24.6	-41.2
2380.000000	-65.8	24.6	-41.2
2380.750000	-65.9	24.7	-41.2
2483.750000	-66.0	24.8	-41.2
2381.250000	-66.0	24.8	-41.2
2484.250000	-66.0	24.8	-41.2
2490.250000	-66.1	24.9	-41.2
2490.750000	-66.1	24.9	-41.2
2489.750000	-66.1	24.9	-41.2
2381.750000	-66.1	24.9	-41.2
2484.750000	-66.1	24.9	-41.2

Measurement Settings

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



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

Result

DUT Frequency (MHz)	Result
2442.000000	PASS

Final measurements

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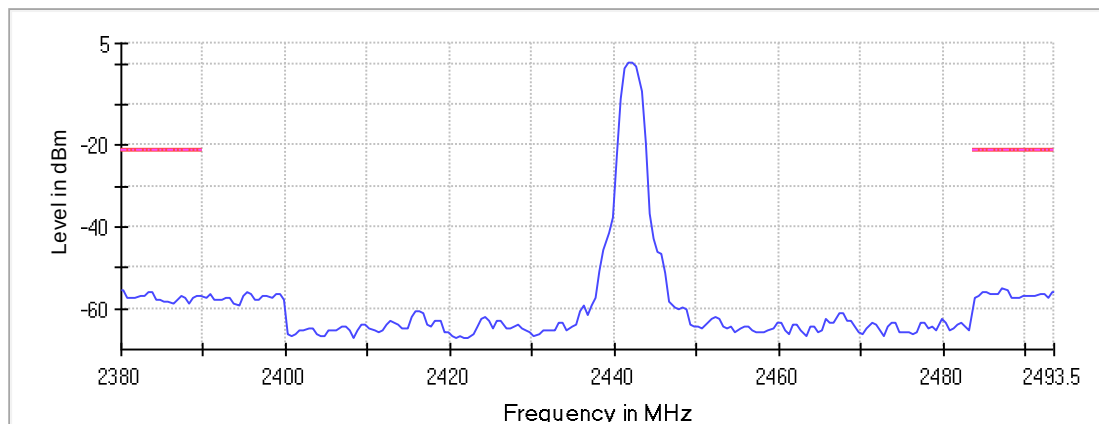
Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
2487.250000	-55.1	33.9	-21.2
2487.750000	-55.5	34.3	-21.2
2380.250000	-55.6	34.4	-21.2
2380.000000	-55.6	34.4	-21.2
2493.500000	-55.7	34.5	-21.2
2493.250000	-55.7	34.5	-21.2
2383.250000	-55.9	34.7	-21.2
2485.250000	-55.9	34.7	-21.2
2484.750000	-55.9	34.7	-21.2
2383.750000	-56.0	34.8	-21.2
2486.750000	-56.3	35.1	-21.2
2486.250000	-56.3	35.1	-21.2
2491.750000	-56.4	35.2	-21.2
2485.750000	-56.4	35.2	-21.2
2492.250000	-56.5	35.3	-21.2

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

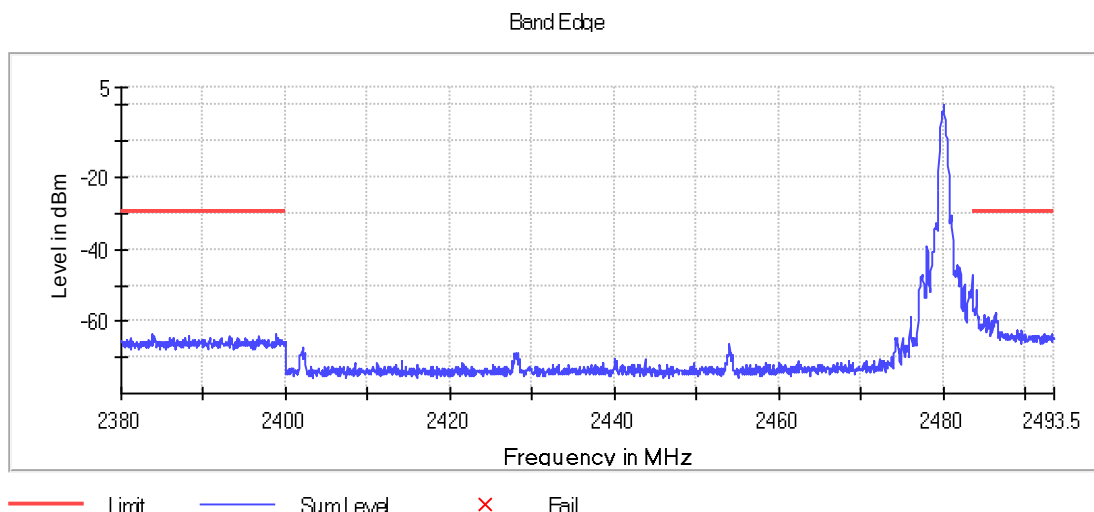
Band Edge low (2480 MHz; 15.000 dBm; 1 MHz)

Result

DUT Frequency (MHz)	Result
2480.000000	PASS

Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
2483.525000	-47.0	17.4	-29.6	PASS
2483.575000	-50.4	20.9	-29.6	PASS
2484.075000	-51.3	21.7	-29.6	PASS
2484.025000	-52.2	22.6	-29.6	PASS
2483.625000	-53.9	24.3	-29.6	PASS
2484.125000	-55.3	25.7	-29.6	PASS
2483.975000	-55.4	25.8	-29.6	PASS
2483.825000	-56.6	27.0	-29.6	PASS
2483.725000	-57.0	27.4	-29.6	PASS
2483.775000	-57.3	27.7	-29.6	PASS
2483.675000	-57.3	27.7	-29.6	PASS
2486.375000	-57.5	27.9	-29.6	PASS
2486.325000	-57.6	28.1	-29.6	PASS
2483.925000	-57.9	28.3	-29.6	PASS
2486.475000	-57.9	28.4	-29.6	PASS



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

Result

DUT Frequency (MHz)	Result
2480.000000	PASS

Final measurements

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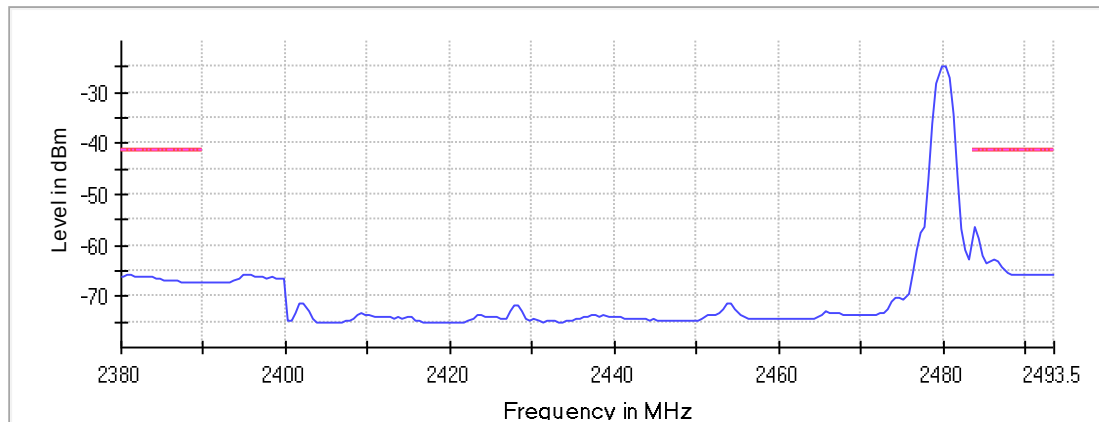
Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
2483.750000	-56.3	15.1	-41.2
2484.250000	-58.5	17.3	-41.2
2484.750000	-61.8	20.6	-41.2
2486.250000	-62.8	21.6	-41.2
2486.750000	-63.0	21.8	-41.2
2485.750000	-63.0	21.8	-41.2
2485.250000	-63.5	22.3	-41.2
2487.250000	-64.4	23.2	-41.2
2487.750000	-65.4	24.2	-41.2
2488.250000	-65.6	24.4	-41.2
2488.750000	-65.7	24.5	-41.2
2492.250000	-65.7	24.5	-41.2
2491.250000	-65.7	24.5	-41.2
2489.750000	-65.8	24.6	-41.2
2490.750000	-65.8	24.6	-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

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

Result

DUT Frequency (MHz)	Result
2480.000000	PASS

Final measurements

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

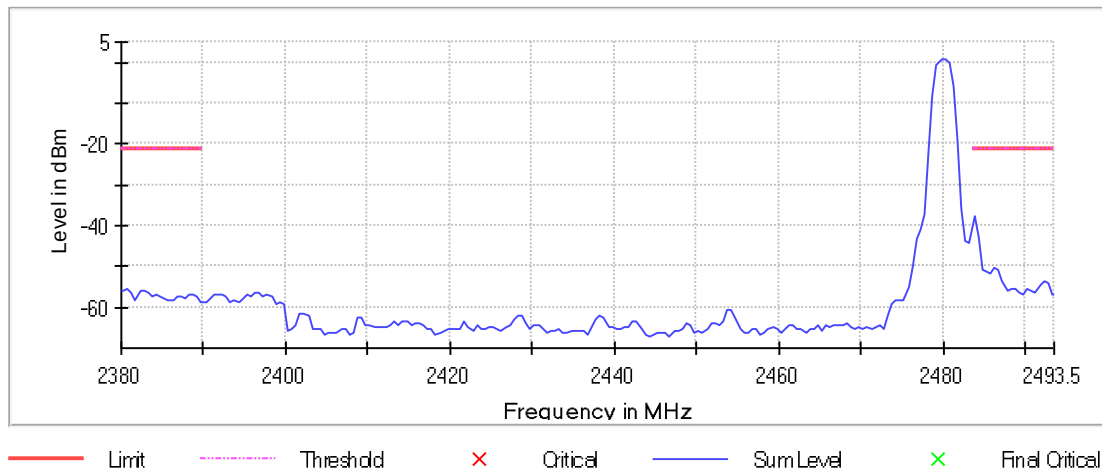
Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
2483.750000	-37.8	16.6	-21.2
2484.250000	-42.6	21.4	-21.2
2486.250000	-50.5	29.3	-21.2
2484.750000	-50.7	29.5	-21.2
2486.750000	-51.0	29.8	-21.2
2485.250000	-51.2	30.0	-21.2
2485.750000	-51.7	30.5	-21.2
2492.250000	-53.5	32.3	-21.2
2487.250000	-53.8	32.6	-21.2
2492.750000	-53.9	32.7	-21.2
2491.750000	-54.3	33.1	-21.2
2488.250000	-55.2	34.0	-21.2
2490.250000	-55.5	34.3	-21.2
2380.750000	-55.6	34.4	-21.2

2488.750000	-55.6	34.4	-21.2
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Measurement Settings

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

Restricted Band



-- End of Report--