



427 West 12800 South
Draper, UT 84020

Test Report Attachment

FCC ID	SWX-U7PROO
ISED ID	6545A-U7PROO
Equipment Under Test	U7-Pro-Outdoor
Test Report Serial Number	TR9497_03
Date of Tests	3-4 October & 6 December 2024
Report Issue Date	14 February 2025

Test Personnel

Testing performed by	Evan Hartzell & Clay Allred
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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 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 WiFi Internal Antenna

1.1 CCK Mode

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

Summary

Test	Frequency	Nominal Bandwidth	Result
	MHz	MHz	
RF output power	2412.000	20.000000	PASS
Minimum Emission Bandwidth 6 dB	2412.000	20.000000	PASS
Power Spectral Density	2412.000	20.000000	PASS
Occupied Channel Bandwidth 99%	2412.000	20.000000	PASS
Tx Spurious Emission	2412.000	20.000000	PASS
Power Spectral Density	2417.000	20.000000	PASS
Minimum Emission Bandwidth 6 dB	2437.000	20.000000	PASS
Power Spectral Density	2437.000	20.000000	PASS
Occupied Channel Bandwidth 99%	2437.000	20.000000	PASS
Tx Spurious Emission	2437.000	20.000000	PASS
Minimum Emission Bandwidth 6 dB	2462.000	20.000000	PASS
Power Spectral Density	2462.000	20.000000	PASS
Occupied Channel Bandwidth 99%	2462.000	20.000000	PASS
Tx Spurious Emission	2462.000	20.000000	PASS

Testcases**RF output power (2412 MHz, 20 MHz, 24.000 dBm)****Customized settings.****Table 1: Result**

DUT Frequency	Gated RMS	Limit Max	Gated EIRP	DutyCycle	Result
MHz	dBm	dBm	dBm	%	
2412.000000	26.6	30.0	26.6	99.192	PASS

Table 2: 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 (2412 MHz, 20 MHz, 24.000 dBm)
Customized settings.

Table 3: 6 dB Bandwidth

DUT Frequency	Bandwidth	Limit Min	Limit Max	Band Edge Left	Band Edge Right	Max Level	Result
MHz	MHz	MHz	MHz	MHz	MHz	dBm	
2412.000000	8.200000	0.500000	---	2407.625000	2415.825000	14.2	PASS

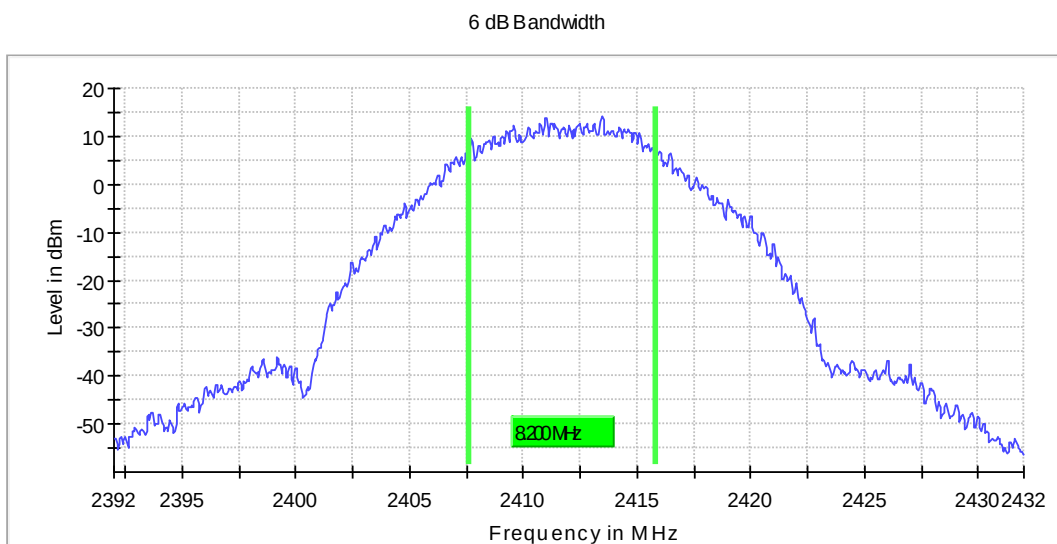


Figure 1: 6 dB Bandwidth

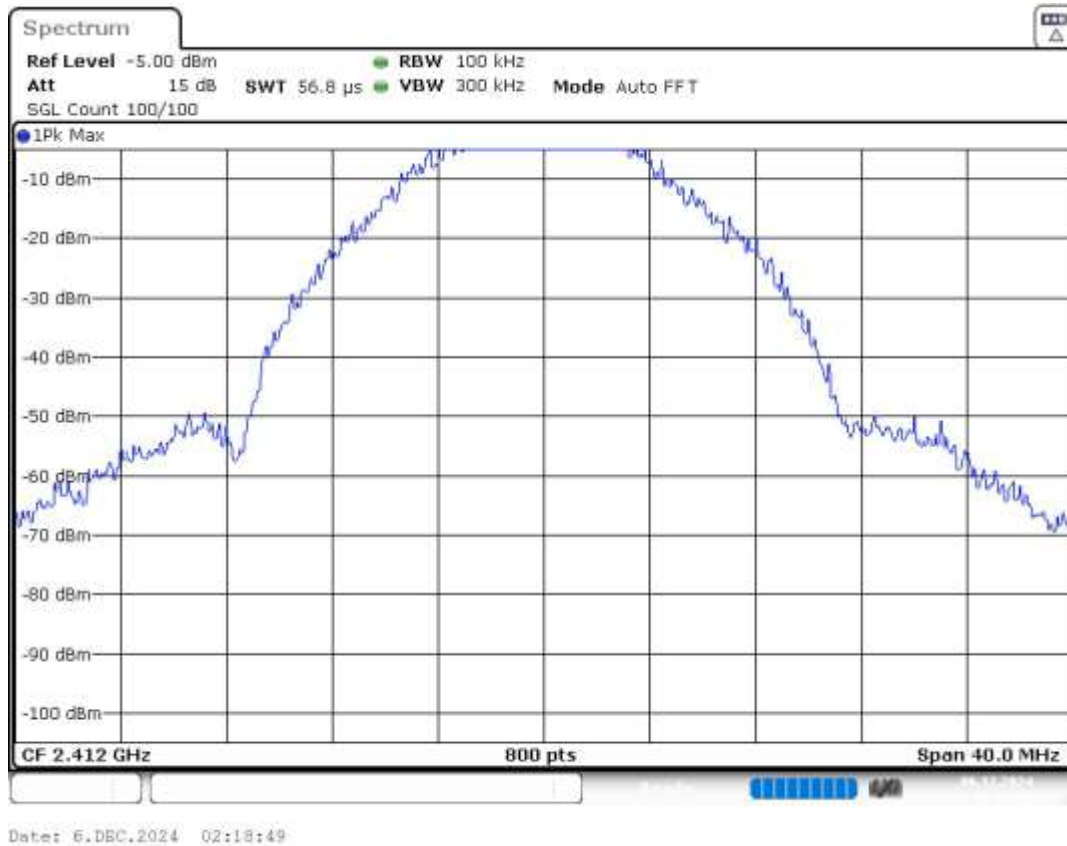


Table 4: Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.39200 GHz	2.39200 GHz
Stop Frequency	2.43200 GHz	2.43200 GHz
Span	40.000 MHz	40.000 MHz
RBW	100.000 kHz	~ 100.000 kHz
VBW	300.000 kHz	~ 300.000 kHz
SweepPoints	800	~ 800
SweepTime	56.836 μ s	AUTO
Reference Level	-5.000 dBm	-5.000 dBm
Attenuation	15.000 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

Power Spectral Density (2412 MHz, 20 MHz, 24.000 dBm)
Customized settings.

Table 5: Result

DUT Frequency	Frequency	PSD	Limit Max	Result
MHz	MHz	dBm	dBm	
2412.000000	2413.484250	2.677	8.0	PASS

Table 6: Ports

Port	State
1	used
2	used

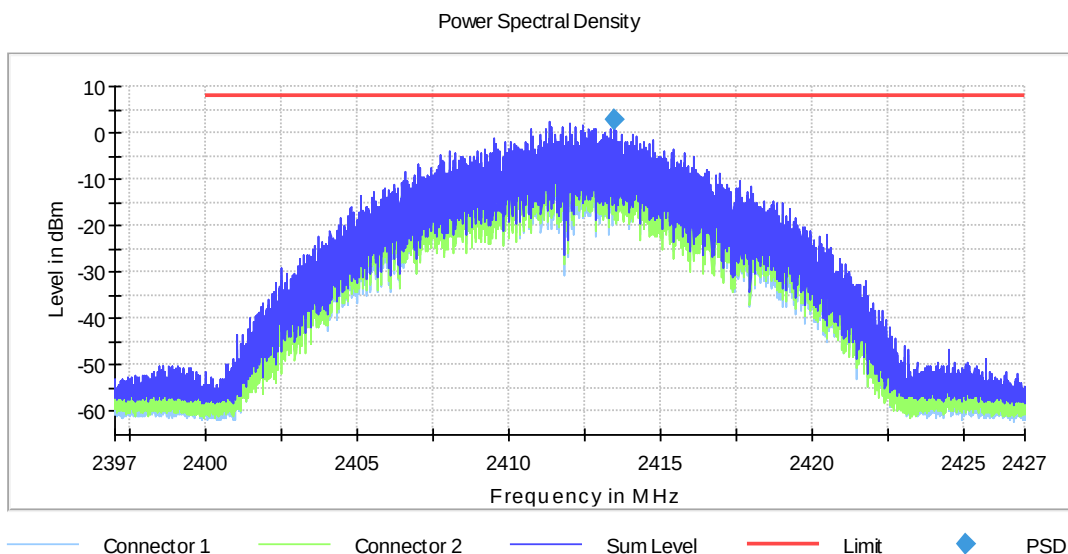


Figure 2: Power Spectral Density

Table 7: Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.39700 GHz	2.39700 GHz
Stop Frequency	2.42700 GHz	2.42700 GHz
Span	30.000 MHz	30.000 MHz
RBW	3.000 kHz	<= 3.000 kHz
VBW	10.000 kHz	>= 9.000 kHz
SweepPoints	20000	~ 20000
SweepTime	4.424 ms	AUTO
Reference Level	20.000 dBm	20.000 dBm
Attenuation	40.000 dB	AUTO

Setting	Instrument Value	Target Value
Detector	RMS	RMS
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Average Power	Average Power
SweepType	FFT	AUTO
Preamp	off	off

Occupied Channel Bandwidth 99% (2412 MHz, 20 MHz, 24.000 dBm)
Customized settings.

Table 8: 99 % Bandwidth

DUT Frequency	Bandwidth	Limit Min	Limit Max	Band Edge Left	Band Edge Right	Result
MHz	MHz	MHz	MHz	MHz	MHz	
2412.000000	12.700000	---	---	2405.550000	2418.250000	PASS

99 % Bandwidth

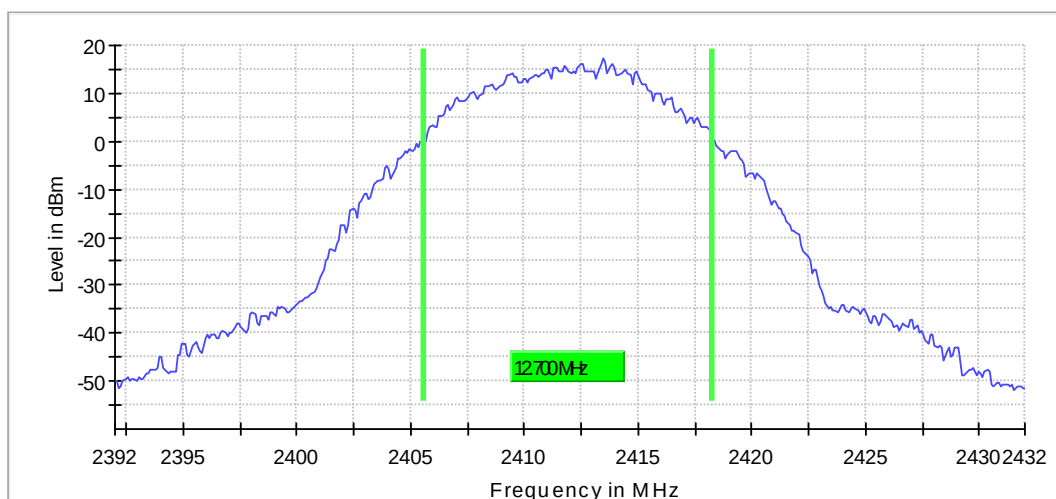


Figure 3: 99 % Bandwidth

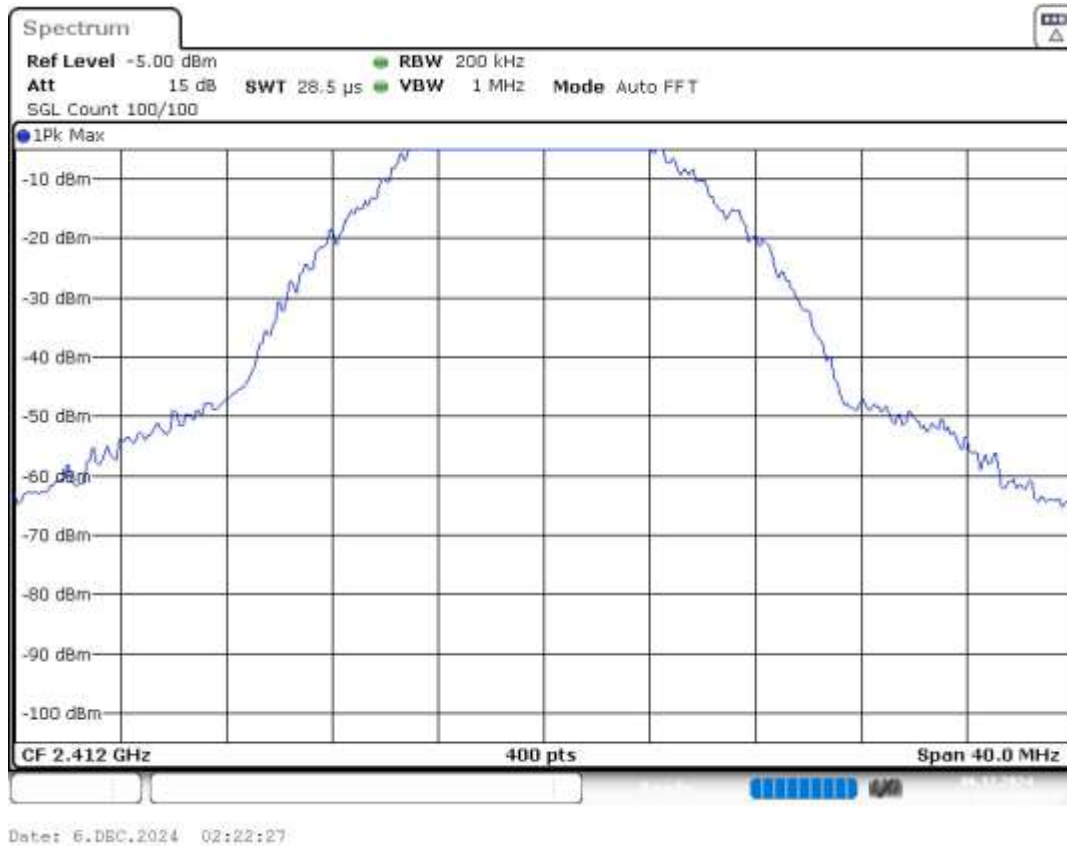


Table 9: Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.39200 GHz	2.39200 GHz
Stop Frequency	2.43200 GHz	2.43200 GHz
Span	40.000 MHz	40.000 MHz
RBW	200.000 kHz	≥ 200.000 kHz
VBW	1.000 MHz	≥ 600.000 kHz
SweepPoints	400	~ 400
SweepTime	28.477 μ s	AUTO
Reference Level	-5.000 dBm	-5.000 dBm
Attenuation	15.000 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

Tx Spurious Emission (2412 MHz, 20 MHz, 24.000 dBm)
Customized settings.

Table 10: Result

DUT Frequency	Result
MHz	
2412.000000	PASS

Table 11: Final measurements

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

Table 12: Pre Measurements

Frequency	Level	Margin	Limit
MHz	dBm	dB	dBm
24700.386543	-21.7	15.4	-6.2
25032.546725	-22.2	15.9	-6.2
25490.369278	-22.4	16.2	-6.2
25031.811857	-22.4	16.2	-6.2
23429.800358	-22.5	16.3	-6.2
25464.648909	-22.6	16.4	-6.2
25125.874918	-22.7	16.5	-6.2
23650.995524	-22.7	16.5	-6.2
25555.037632	-22.8	16.5	-6.2
24769.464103	-22.8	16.6	-6.2
25587.371809	-22.9	16.7	-6.2
25982.730610	-22.9	16.7	-6.2
25467.588380	-22.9	16.7	-6.2
24658.499086	-22.9	16.7	-6.2
17770.584505	-22.9	16.7	-6.2

Table 13: Measurement Settings

Start Frequency	Stop Frequency	Pre Measurement	Final Measurement
MHz	MHz		
30.000000	2350.000000	1	1
2350.000000	2483.500000	2	1
2483.500000	26000.000000	1	1

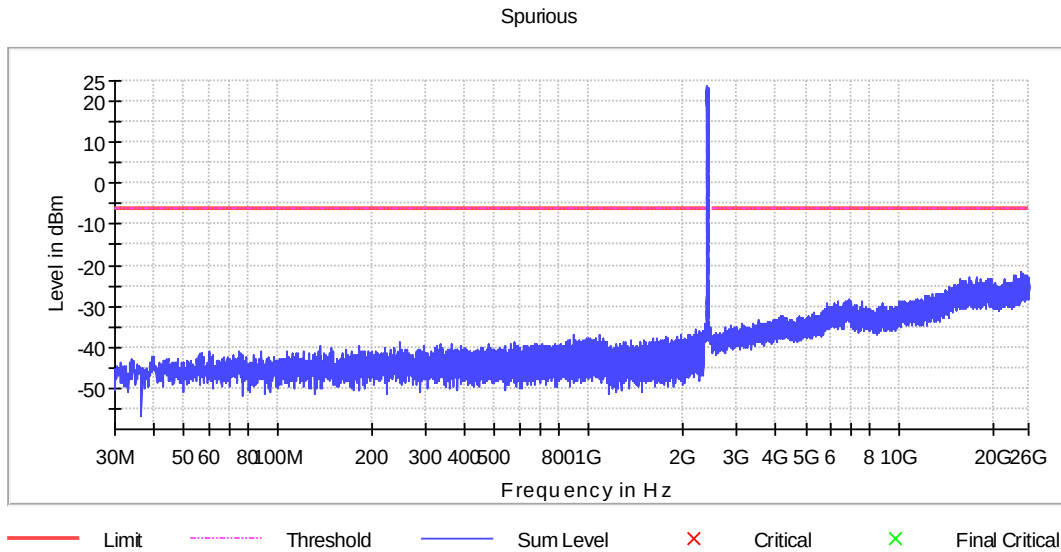


Figure 4: Spurious

Table 14: Pre Measurement 1

Setting	Instrument Value	Target Value
RBW	100.000 kHz	≤ 100.000 kHz
VBW	300.000 kHz	≥ 300.000 kHz
SweepPoints	32001	~ 46400
SweepTime	32.100 ms	AUTO
Reference Level	20.000 dBm	20.000 dBm
Attenuation	40.000 dB	40.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	3	3
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamplifier	off	off

Table 15: Pre Measurement 2

Setting	Instrument Value	Target Value
RBW	100.000 kHz	≤ 100.000 kHz
VBW	300.000 kHz	≥ 300.000 kHz
SweepPoints	2670	~ 2670
SweepTime	151.563 μ s	AUTO
Reference Level	20.000 dBm	20.000 dBm
Attenuation	40.000 dB	40.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	300	300
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamplifier	off	off

Power Spectral Density (2417 MHz, 20 MHz, 24.000 dBm) Customized settings.

Minimum Emission Bandwidth 6 dB (2437 MHz, 20 MHz, 24.000 dBm)
Customized settings.

Table 16: 6 dB Bandwidth

DUT Frequency	Bandwidth	Limit Min	Limit Max	Band Edge Left	Band Edge Right	Max Level	Result
MHz	MHz	MHz	MHz	MHz	MHz	dBm	
2437.000000	8.150000	0.500000	---	2432.925000	2441.075000	14.8	PASS

6 dB Bandwidth

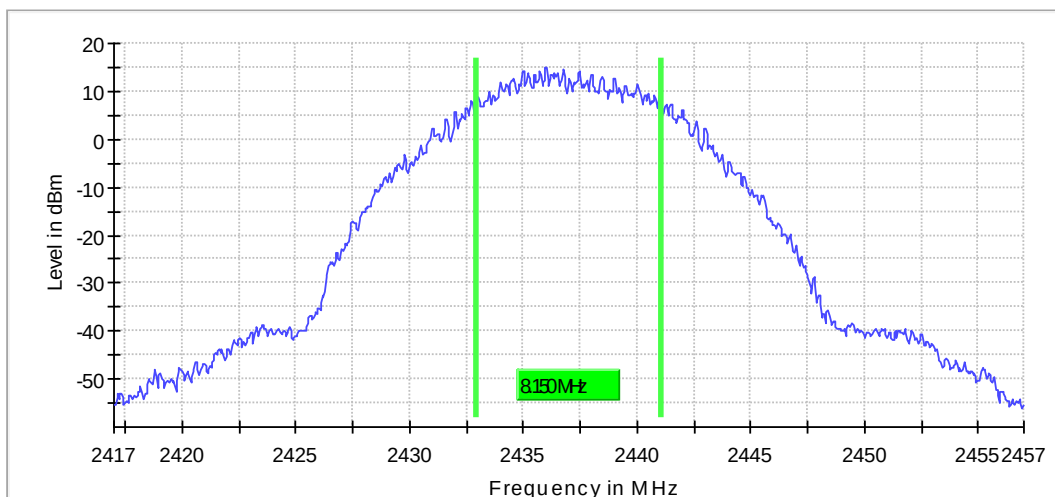
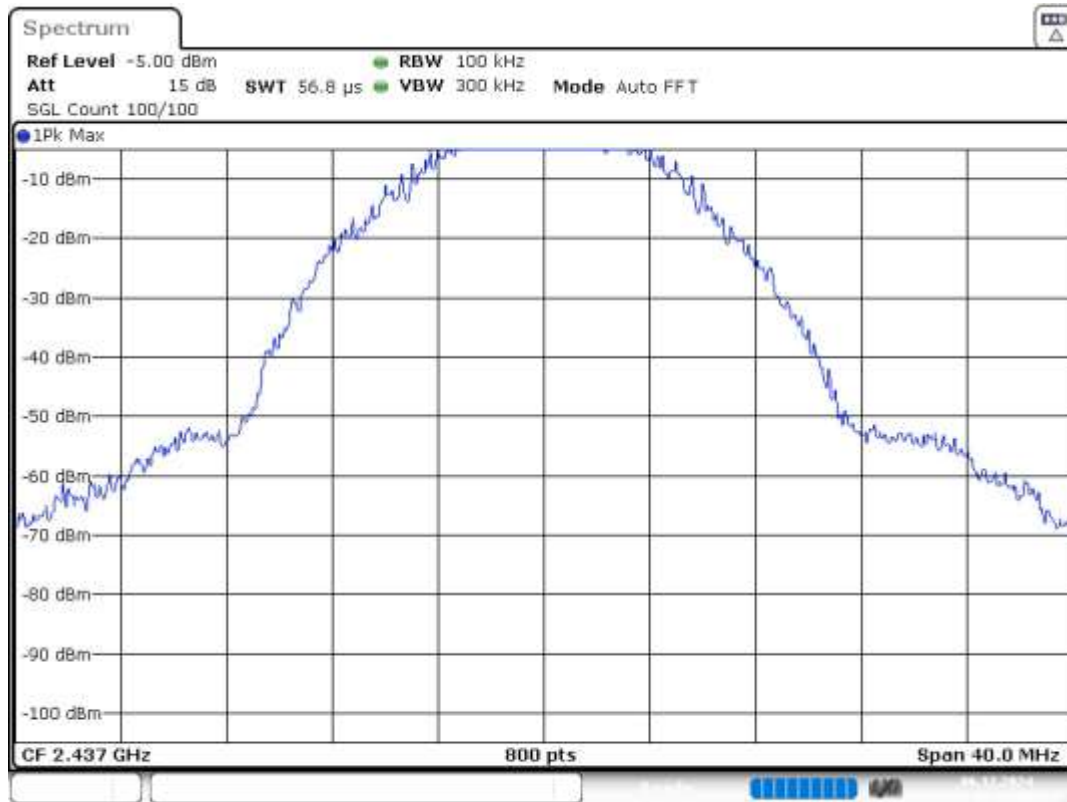


Figure 5: 6 dB Bandwidth



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Power Spectral Density (2437 MHz, 20 MHz, 24.000 dBm)
Customized settings.

Table 17: Result

DUT Frequency	Frequency	PSD	Limit Max	Result
MHz	MHz	dBm	dBm	
2437.000000	2435.728750	2.327	8.0	PASS

Table 18: Ports

Port	State
1	used
2	used

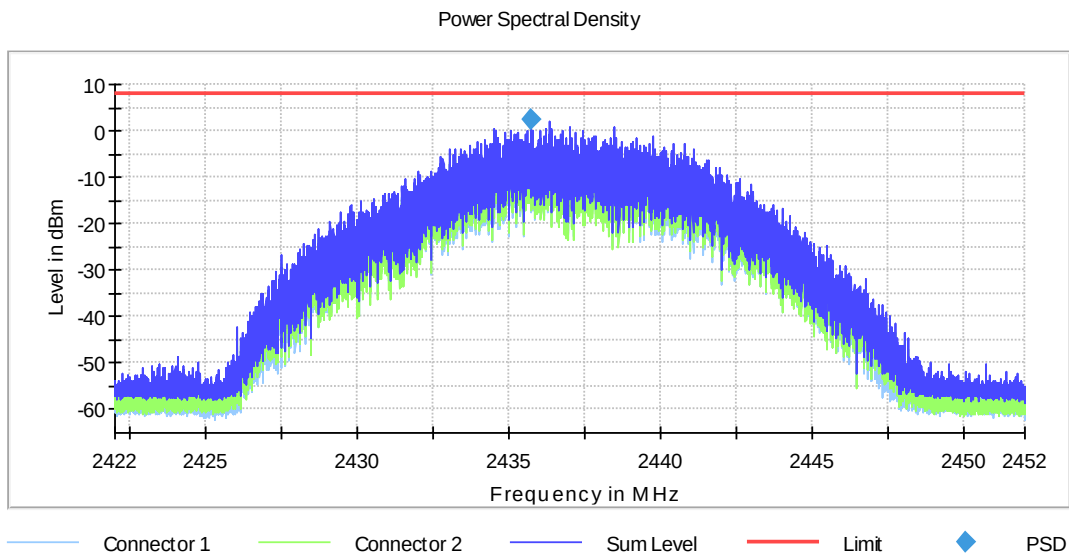


Figure 6: Power Spectral Density

Table 19: Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.42200 GHz	2.42200 GHz
Stop Frequency	2.45200 GHz	2.45200 GHz
Span	30.000 MHz	30.000 MHz
RBW	3.000 kHz	<= 3.000 kHz
VBW	10.000 kHz	>= 9.000 kHz
SweepPoints	20000	~ 20000
Sweptime	4.424 ms	AUTO
Reference Level	20.000 dBm	20.000 dBm
Attenuation	40.000 dB	AUTO

Setting	Instrument Value	Target Value
Detector	RMS	RMS
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Average Power	Average Power
SweepType	FFT	AUTO
Preamplifier	off	off

Occupied Channel Bandwidth 99% (2437 MHz, 20 MHz, 24.000 dBm)
Customized settings.

Table 20: 99 % Bandwidth

DUT Frequency	Bandwidth	Limit Min	Limit Max	Band Edge Left	Band Edge Right	Result
MHz	MHz	MHz	MHz	MHz	MHz	
2437.000000	12.800000	---	---	2430.450000	2443.250000	PASS

99 % Bandwidth

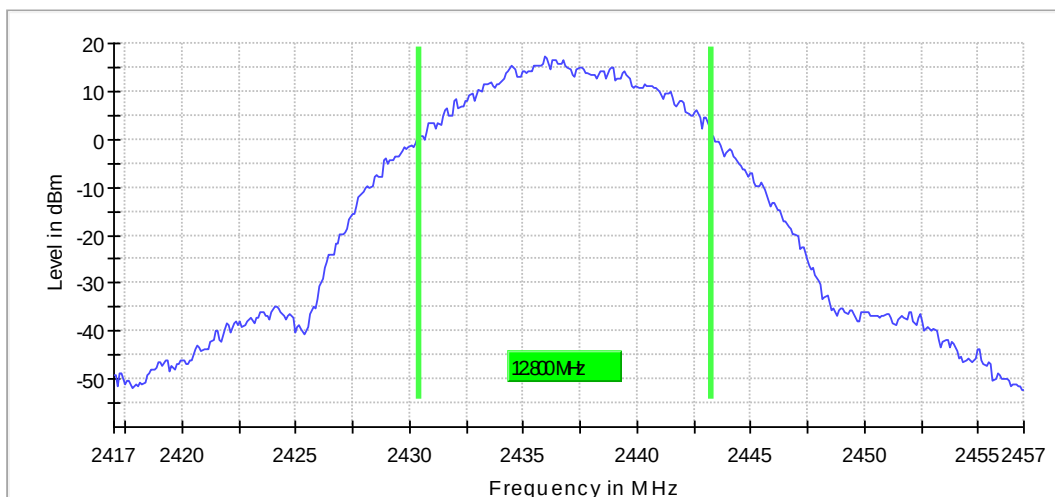


Figure 7: 99 % Bandwidth

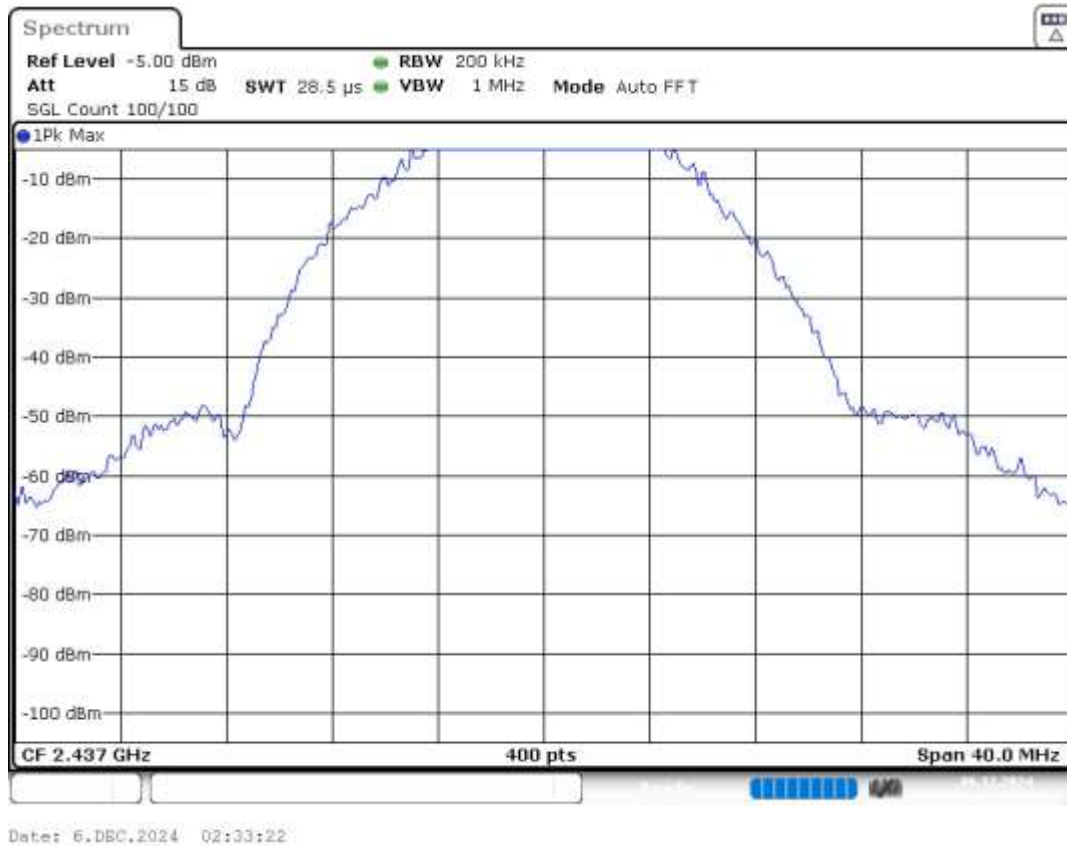


Table 21: Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.41700 GHz	2.41700 GHz
Stop Frequency	2.45700 GHz	2.45700 GHz
Span	40.000 MHz	40.000 MHz
RBW	200.000 kHz	≥ 200.000 kHz
VBW	1.000 MHz	≥ 600.000 kHz
SweepPoints	400	~ 400
SweepTime	28.477 μ s	AUTO
Reference Level	-5.000 dBm	-5.000 dBm
Attenuation	15.000 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

Tx Spurious Emission (2437 MHz, 20 MHz, 24.000 dBm)
Customized settings.

Table 22: Result

DUT Frequency	Result
MHz	
2437.000000	PASS

Table 23: Final measurements

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

Table 24: Pre Measurements

Frequency	Level	Margin	Limit
MHz	dBm	dB	dBm
19814.251469	-21.6	18.2	-3.4
19813.516601	-21.9	18.5	-3.4
25111.912432	-22.0	18.6	-3.4
19105.104176	-22.2	18.8	-3.4
25121.465712	-22.2	18.8	-3.4
24435.834185	-22.3	18.9	-3.4
24998.007945	-22.6	19.2	-3.4
25387.487805	-22.7	19.3	-3.4
25875.439932	-22.7	19.3	-3.4
25071.494711	-22.7	19.3	-3.4
25557.977102	-22.7	19.3	-3.4
17813.941697	-22.7	19.3	-3.4
25093.540741	-22.7	19.3	-3.4
25097.215079	-22.7	19.3	-3.4
25076.638785	-22.7	19.3	-3.4

Table 25: Measurement Settings

Start Frequency	Stop Frequency	Pre Measurement	Final Measurement
MHz	MHz		
30.000000	2350.000000	1	1
2350.000000	2483.500000	2	1
2483.500000	26000.000000	1	1

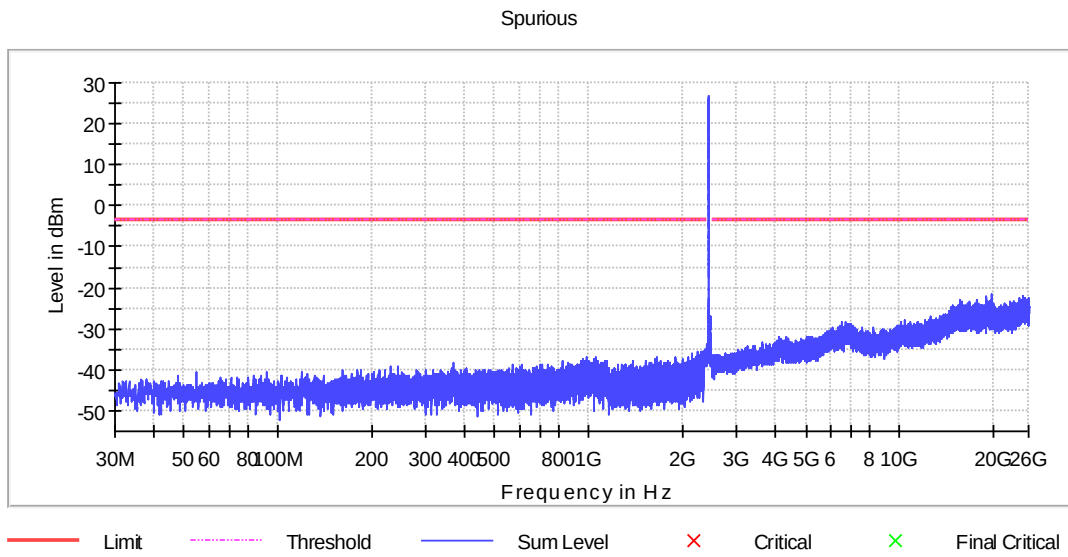


Figure 8: Spurious

Minimum Emission Bandwidth 6 dB (2462 MHz, 20 MHz, 24.000 dBm)
Customized settings.

Table 26: 6 dB Bandwidth

DUT Frequency	Bandwidth	Limit Min	Limit Max	Band Edge Left	Band Edge Right	Max Level	Result
MHz	MHz	MHz	MHz	MHz	MHz	dBm	
2462.000000	6.800000	0.500000	---	2458.625000	2465.425000	15.6	PASS

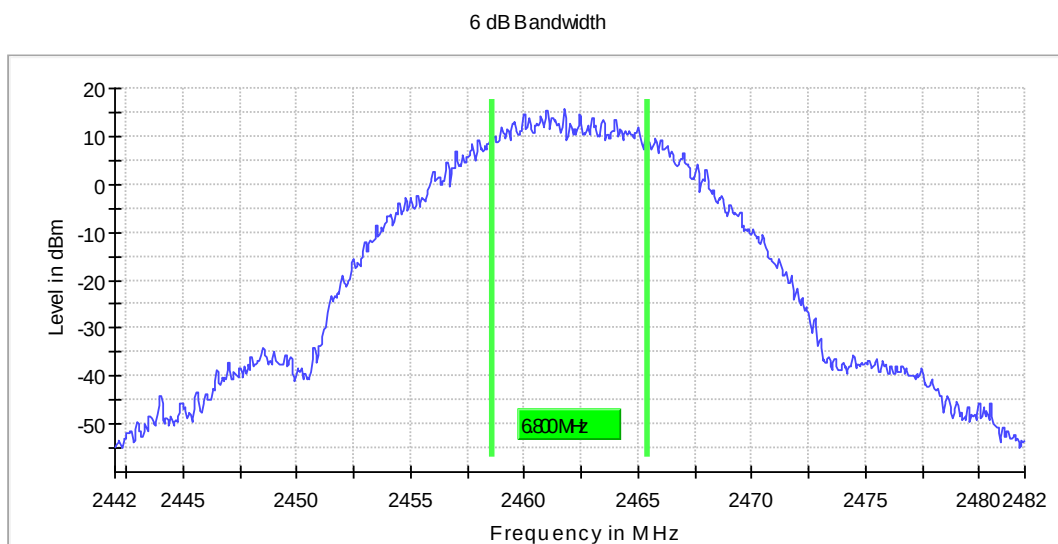


Figure 9: 6 dB Bandwidth

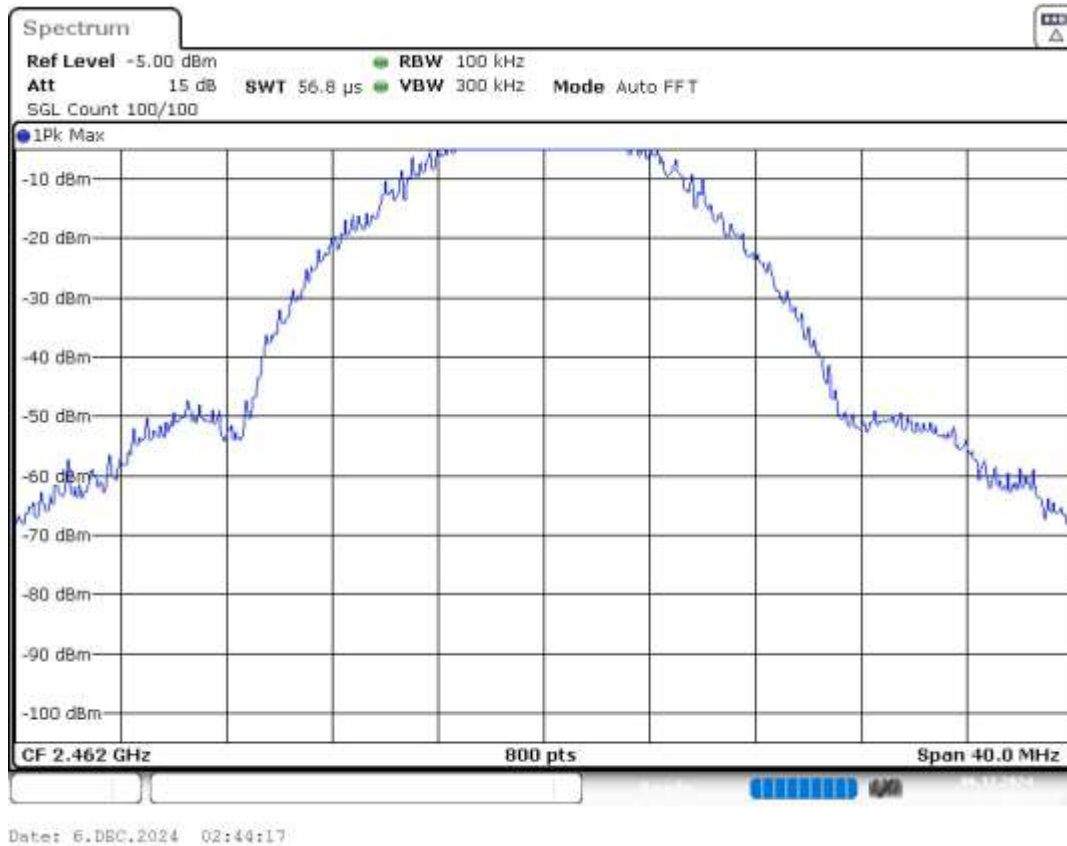


Table 27: Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.44200 GHz	2.44200 GHz
Stop Frequency	2.48200 GHz	2.48200 GHz
Span	40.000 MHz	40.000 MHz
RBW	100.000 kHz	~ 100.000 kHz
VBW	300.000 kHz	~ 300.000 kHz
SweepPoints	800	~ 800
SweepTime	56.836 μ s	AUTO
Reference Level	-5.000 dBm	-5.000 dBm
Attenuation	15.000 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

Power Spectral Density (2462 MHz, 20 MHz, 24.000 dBm)
Customized settings.

Table 28: Result

DUT Frequency	Frequency	PSD	Limit Max	Result
MHz	MHz	dBm	dBm	
2462.000000	2461.330250	2.583	8.0	PASS

Table 29: Ports

Port	State
1	used
2	used

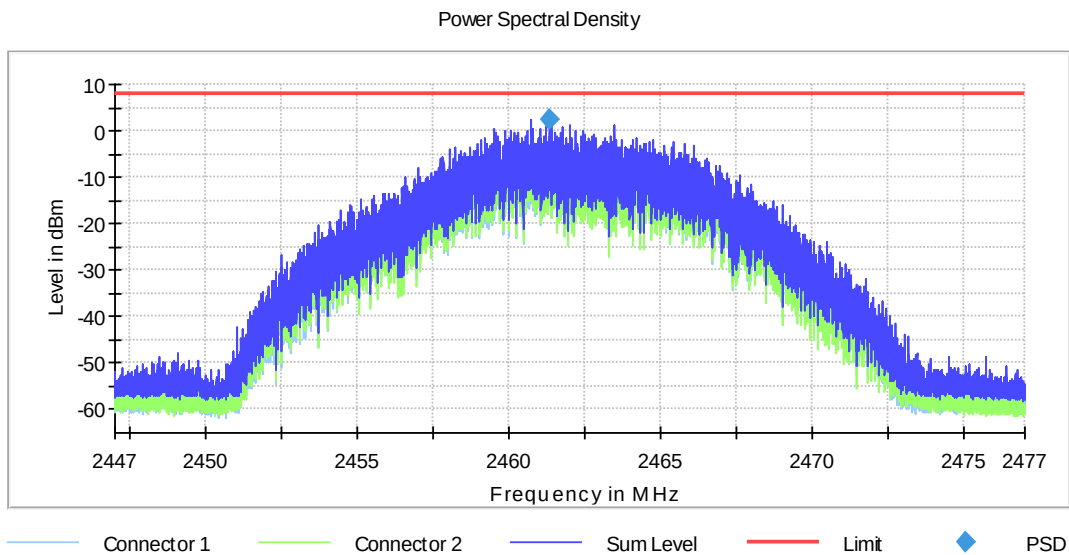


Figure 10: Power Spectral Density

Table 30: Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.44700 GHz	2.44700 GHz
Stop Frequency	2.47700 GHz	2.47700 GHz
Span	30.000 MHz	30.000 MHz
RBW	3.000 kHz	<= 3.000 kHz
VBW	10.000 kHz	>= 9.000 kHz
SweepPoints	20000	~ 20000
SweepTime	4.424 ms	AUTO
Reference Level	20.000 dBm	20.000 dBm
Attenuation	40.000 dB	AUTO

Setting	Instrument Value	Target Value
Detector	RMS	RMS
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Average Power	Average Power
SweepType	FFT	AUTO
Preamp	off	off

Occupied Channel Bandwidth 99% (2462 MHz, 20 MHz, 24.000 dBm)
Customized settings.

Table 31: 99 % Bandwidth

DUT Frequency	Bandwidth	Limit Min	Limit Max	Band Edge Left	Band Edge Right	Result
MHz	MHz	MHz	MHz	MHz	MHz	
2462.000000	12.800000	---	---	2455.450000	2468.250000	PASS

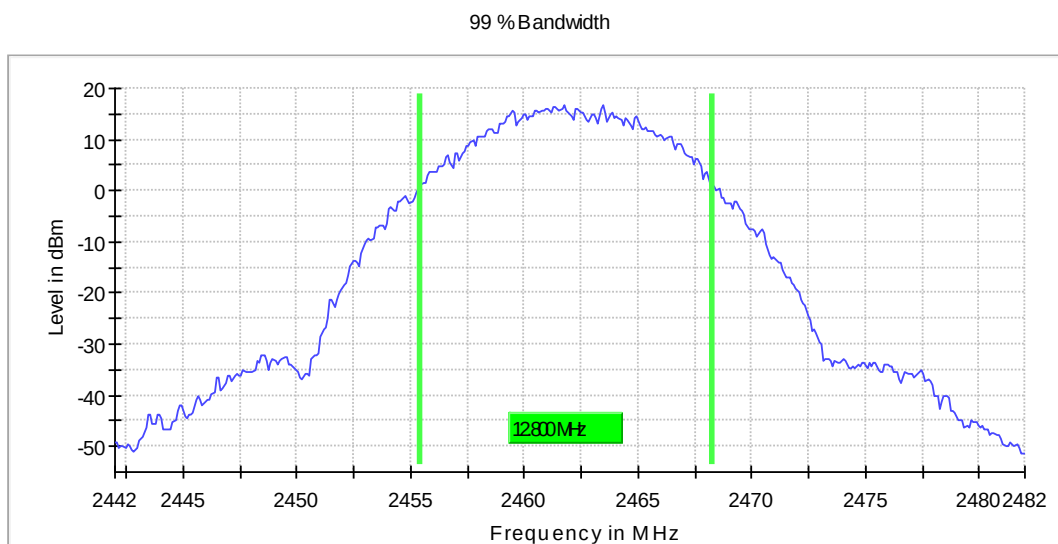


Figure 11: 99 % Bandwidth

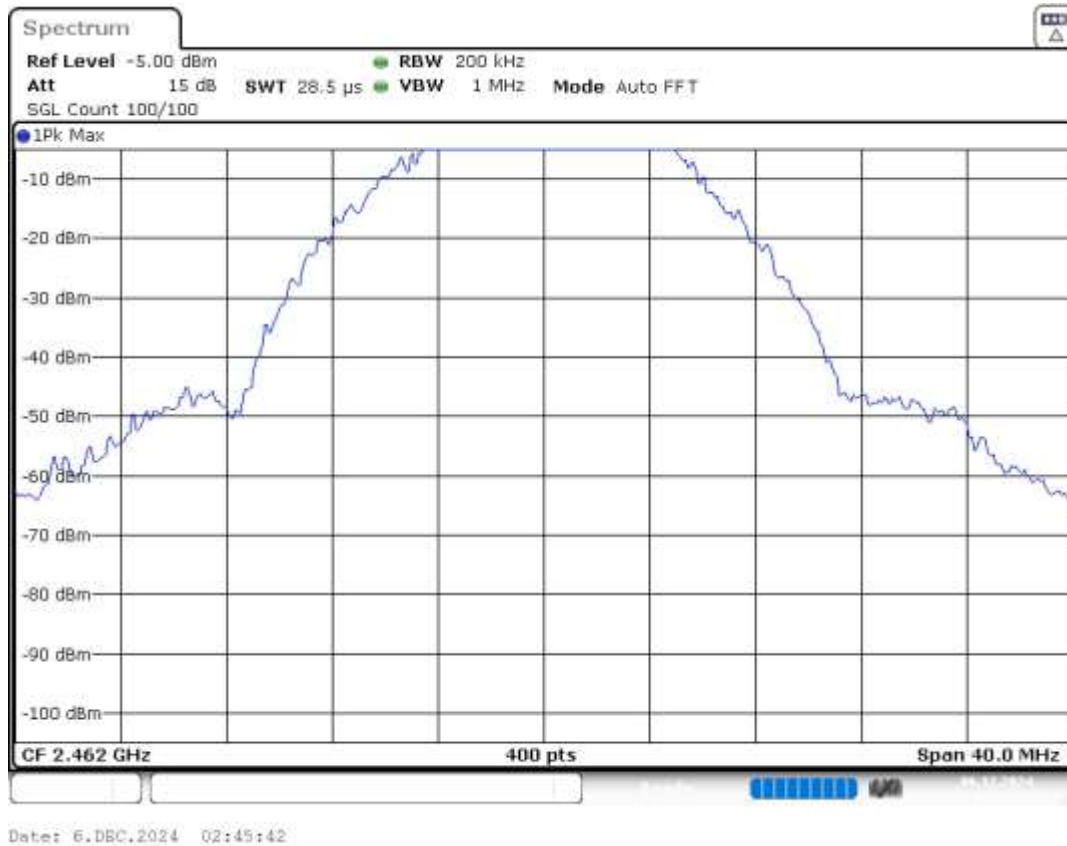


Table 32: Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.44200 GHz	2.44200 GHz
Stop Frequency	2.48200 GHz	2.48200 GHz
Span	40.000 MHz	40.000 MHz
RBW	200.000 kHz	≥ 200.000 kHz
VBW	1.000 MHz	≥ 600.000 kHz
SweepPoints	400	~ 400
SweepTime	28.477 μ s	AUTO
Reference Level	-5.000 dBm	-5.000 dBm
Attenuation	15.000 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

Tx Spurious Emission (2462 MHz, 20 MHz, 24.000 dBm)
Customized settings.

Table 33: Result

DUT Frequency	Result
MHz	
2462.000000	PASS

Table 34: Final measurements

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

Table 35: Pre Measurements

Frequency	Level	Margin	Limit
MHz	dBm	dB	dBm
25067.085505	-21.9	18.7	-3.2
25057.532226	-22.2	19.0	-3.2
25024.463181	-22.4	19.2	-3.2
25141.307139	-22.5	19.3	-3.2
25608.682971	-22.6	19.3	-3.2
25474.937057	-22.6	19.4	-3.2
25726.996664	-22.6	19.4	-3.2
24815.760765	-22.6	19.4	-3.2
24803.268015	-22.6	19.4	-3.2
25497.717954	-22.7	19.5	-3.2
24708.470087	-22.7	19.5	-3.2
25149.390683	-22.8	19.6	-3.2
25721.852591	-22.8	19.6	-3.2
19423.301873	-22.8	19.6	-3.2
25563.856044	-22.8	19.6	-3.2

Table 36: Measurement Settings

Start Frequency	Stop Frequency	Pre Measurement	Final Measurement
MHz	MHz		
30.000000	2350.000000	1	1
2350.000000	2483.500000	2	1
2483.500000	26000.000000	1	1

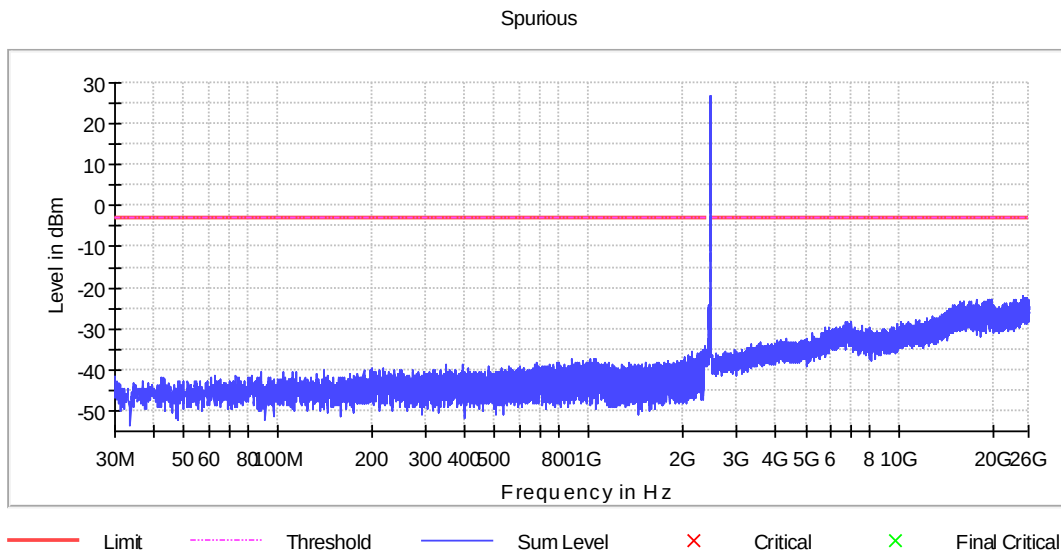


Figure 12: Spurious

1.2 OFDM Mode

Summary

Test	Frequency (MHz)	Nominal Bandwidth (MHz)	Result
RF output power	2412.000	20.000000	PASS
Minimum Emission Bandwidth 6 dB	2412.000	20.000000	PASS
Power Spectral Density	2412.000	20.000000	PASS
Occupied Channel Bandwidth 99%	2412.000	20.000000	PASS
Tx Spurious Emission	2412.000	20.000000	PASS
Minimum Emission Bandwidth 6 dB	2437.000	20.000000	PASS
Power Spectral Density	2437.000	20.000000	PASS
Occupied Channel Bandwidth 99%	2437.000	20.000000	PASS
Tx Spurious Emission	2437.000	20.000000	PASS
Minimum Emission Bandwidth 6 dB	2462.000	20.000000	PASS
Power Spectral Density	2462.000	20.000000	PASS
Occupied Channel Bandwidth 99%	2462.000	20.000000	PASS
Tx Spurious Emission	2462.000	20.000000	PASS

RF output power (2412 MHz; 24.000 dBm; 20 MHz)

Customized settings.

Result

DUT Frequency (MHz)	Gated RMS (dBm)	Limit Max (dBm)	Gated EIRP (dBm)	DutyCycle (%)	Result
2412.000000	22.8	30.0	22.8	97.126	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 (2412 MHz; 24.000 dBm; 20 MHz)

Customized settings.

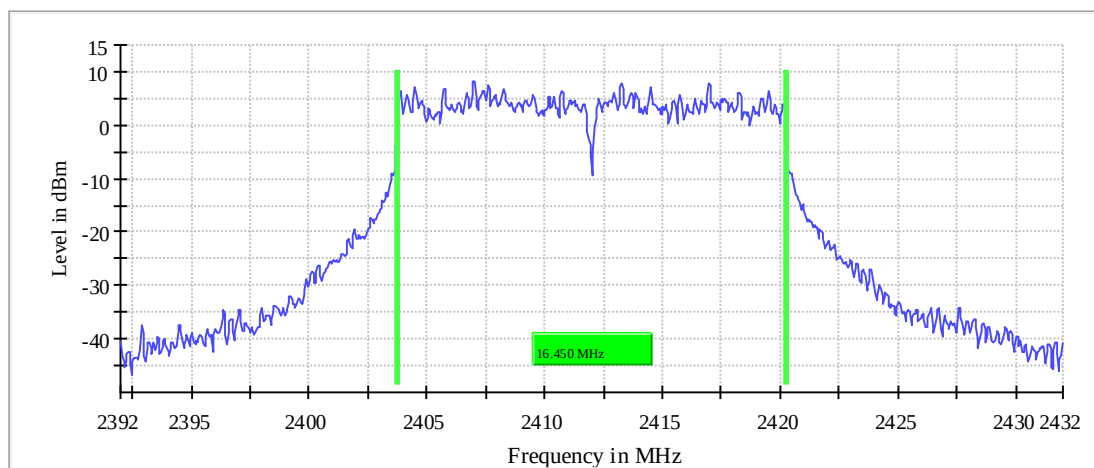
6 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2412.000000	16.450000	0.500000	---	2403.775000	2420.225000

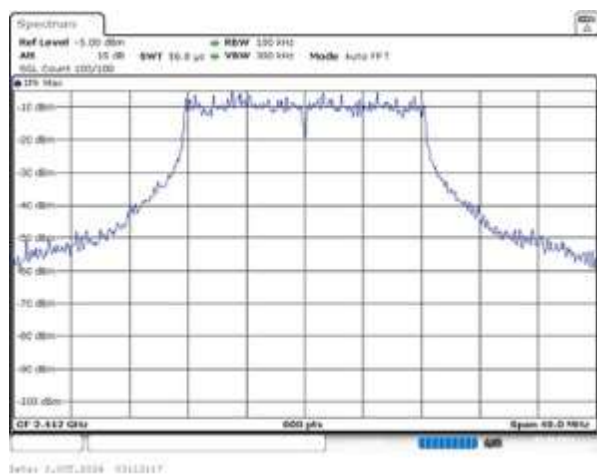
(continuation of the "6 dB Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
2412.000000	8.3	PASS

6 dB Bandwidth



Bandwidth



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.39200 GHz	2.39200 GHz
Stop Frequency	2.43200 GHz	2.43200 GHz
Span	40.000 MHz	40.000 MHz
RBW	100.000 kHz	~ 100.000 kHz
VBW	300.000 kHz	~ 300.000 kHz
SweepPoints	800	~ 800
Sweptime	56.836 μ s	AUTO
Reference Level	-5.000 dBm	-5.000 dBm
Attenuation	15.000 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

Power Spectral Density (2412 MHz; 24.000 dBm; 20 MHz)

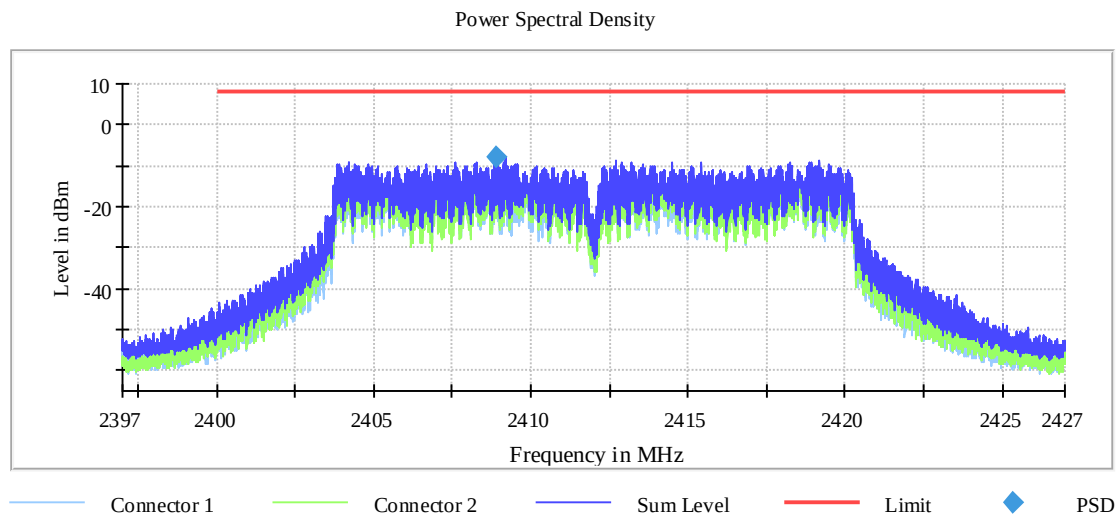
Customized settings.

Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
2412.000000	2408.897250	-7.820	8.0	PASS

Ports

Port	State
1	used
2	used



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.39700 GHz	2.39700 GHz
Stop Frequency	2.42700 GHz	2.42700 GHz
Span	30.000 MHz	30.000 MHz
RBW	3.000 kHz	<= 3.000 kHz
VBW	10.000 kHz	>= 9.000 kHz
SweepPoints	20000	~ 20000
SweepTime	4.424 ms	AUTO
Reference Level	20.000 dBm	20.000 dBm
Attenuation	40.000 dB	AUTO
Detector	RMS	RMS
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Average Power	Average Power
SweepType	FFT	AUTO
Preamp	off	off

Occupied Channel Bandwidth 99% (2412 MHz; 24.000 dBm; 20 MHz)

Customized settings.

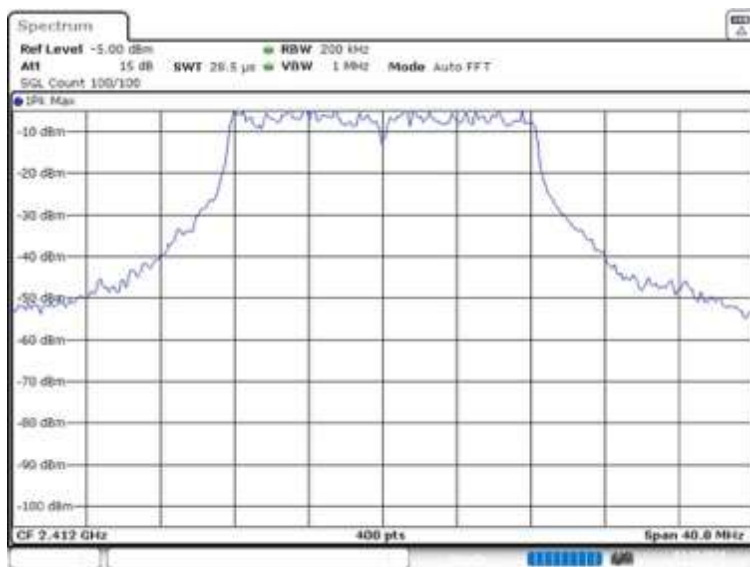
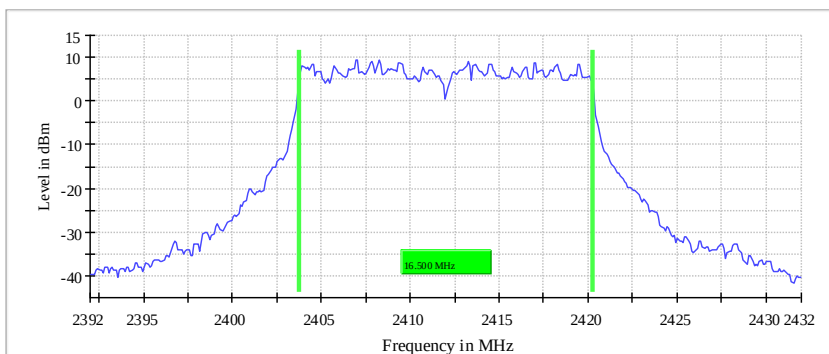
99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2412.000000	16.500000	---	---	2403.750000	2420.250000

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

DUT Frequency (MHz)	Result
2412.000000	PASS

99 % Bandwidth



Bandwidth

Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.39200 GHz	2.39200 GHz
Stop Frequency	2.43200 GHz	2.43200 GHz
Span	40.000 MHz	40.000 MHz
RBW	200.000 kHz	>= 200.000 kHz
VBW	1.000 MHz	>= 600.000 kHz
SweepPoints	400	~ 400
SweepTime	28.477 μ s	AUTO
Reference Level	-5.000 dBm	-5.000 dBm
Attenuation	15.000 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 (2412 MHz; 24.000 dBm; 20 MHz)

Customized settings.

Result

DUT Frequency (MHz)	Result
2412.000000	PASS

Final measurements

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

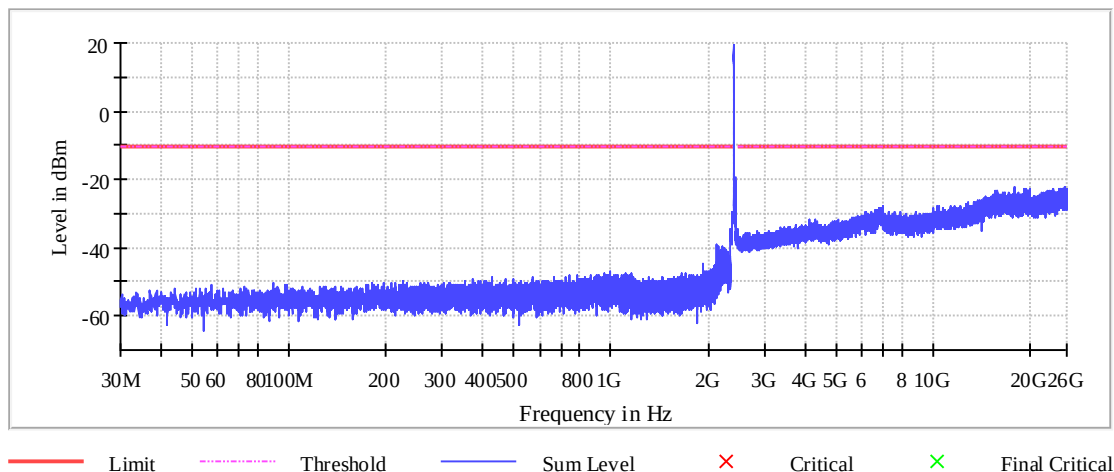
Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
2399.875000	-18.4	7.9	-10.5
2399.925000	-18.7	8.2	-10.5
2399.525000	-19.1	8.6	-10.5
2399.575000	-19.3	8.8	-10.5
2399.125000	-19.4	8.9	-10.5
2399.775000	-19.4	8.9	-10.5
2399.825000	-19.5	8.9	-10.5
2399.975000	-19.6	9.1	-10.5
2399.725000	-19.8	9.3	-10.5
2399.175000	-19.9	9.4	-10.5
2399.475000	-20.0	9.5	-10.5
2399.325000	-20.2	9.7	-10.5
2399.275000	-20.3	9.8	-10.5
2399.075000	-20.3	9.8	-10.5
2399.425000	-20.5	10.0	-10.5

Measurement Settings

Start Frequency (MHz)	Stop Frequency (MHz)	Pre Measurement	Final Measurement
30.000000	2350.000000	1	1
2350.000000	2483.500000	2	1
2483.500000	26000.000000	1	1

Spurious



Pre Measurement 1

Setting	Instrument Value	Target Value
RBW	100.000 kHz	≤ 100.000 kHz
VBW	300.000 kHz	≥ 300.000 kHz
SweepPoints	32001	~ 46400
SweepTime	32.100 ms	AUTO
Reference Level	20.000 dBm	10.000 dBm
Attenuation	30.000 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

Pre Measurement 2

Setting	Instrument Value	Target Value
RBW	100.000 kHz	≤ 100.000 kHz
VBW	300.000 kHz	≥ 300.000 kHz
SweepPoints	2670	~ 2670
SweepTime	151.563 μ s	AUTO
Reference Level	20.000 dBm	20.000 dBm
Attenuation	40.000 dB	40.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	300	300
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off

Minimum Emission Bandwidth 6 dB (2437 MHz; 24.000 dBm; 20 MHz)

Customized settings.

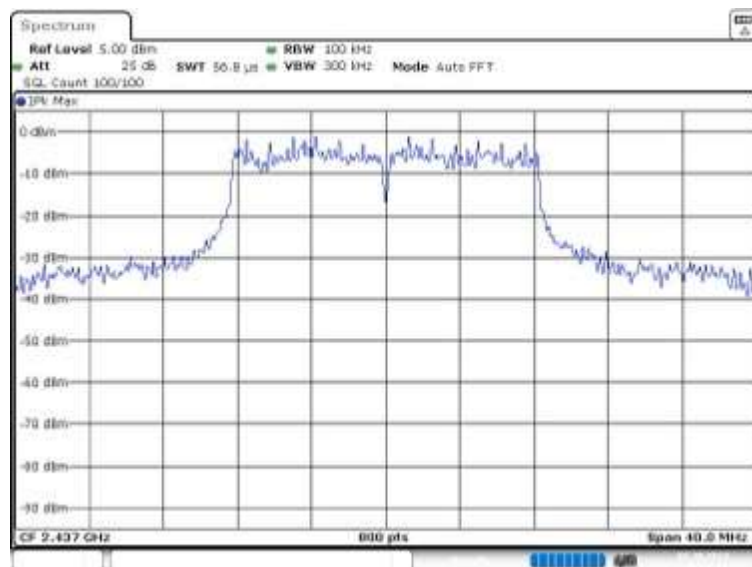
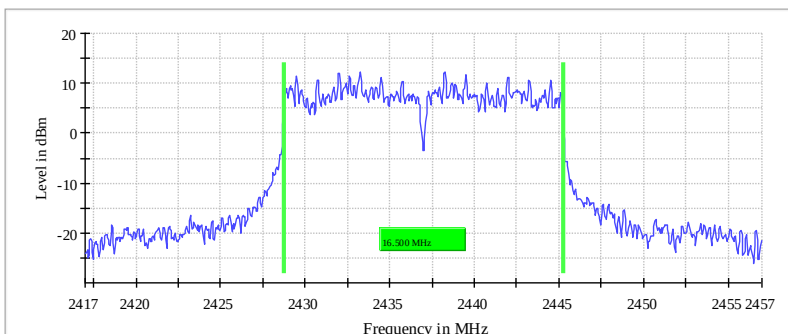
6 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2437.000000	16.500000	0.500000	---	2428.725000	2445.225000

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

DUT Frequency (MHz)	Max Level (dBm)	Result
2437.000000	12.2	PASS

6 dB Bandwidth



Bandwidth

Power Spectral Density (2437 MHz; 24.000 dBm; 20 MHz)

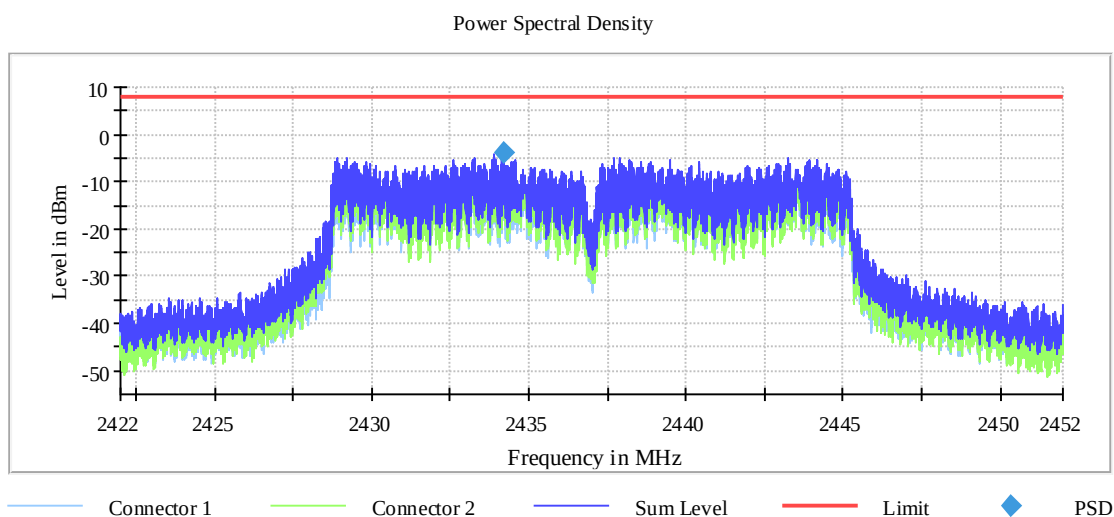
Customized settings.

Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
2437.000000	2434.182250	-3.865	8.0	PASS

Ports

Port	State
1	used
2	used



Occupied Channel Bandwidth 99% (2437 MHz; 24.000 dBm; 20 MHz)

Customized settings.

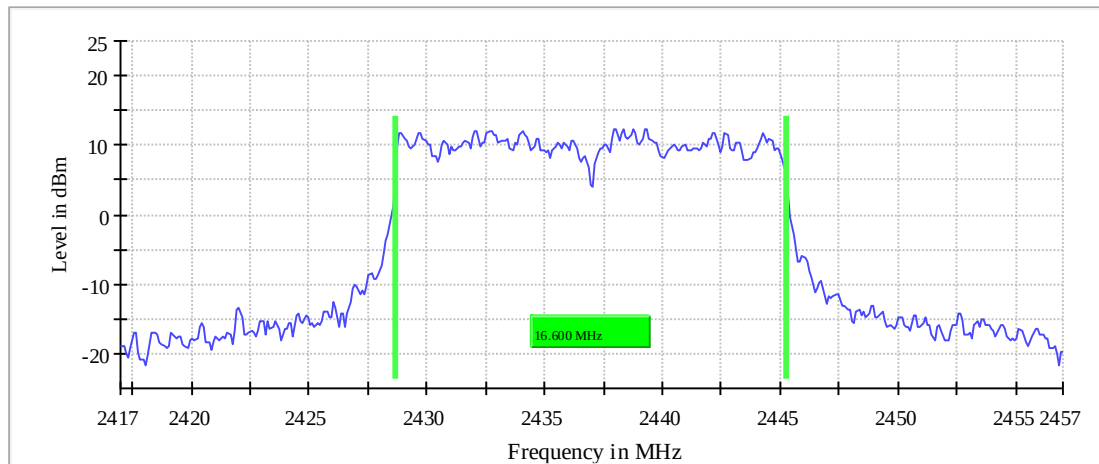
99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2437.000000	16.600000	---	---	2428.650000	2445.250000

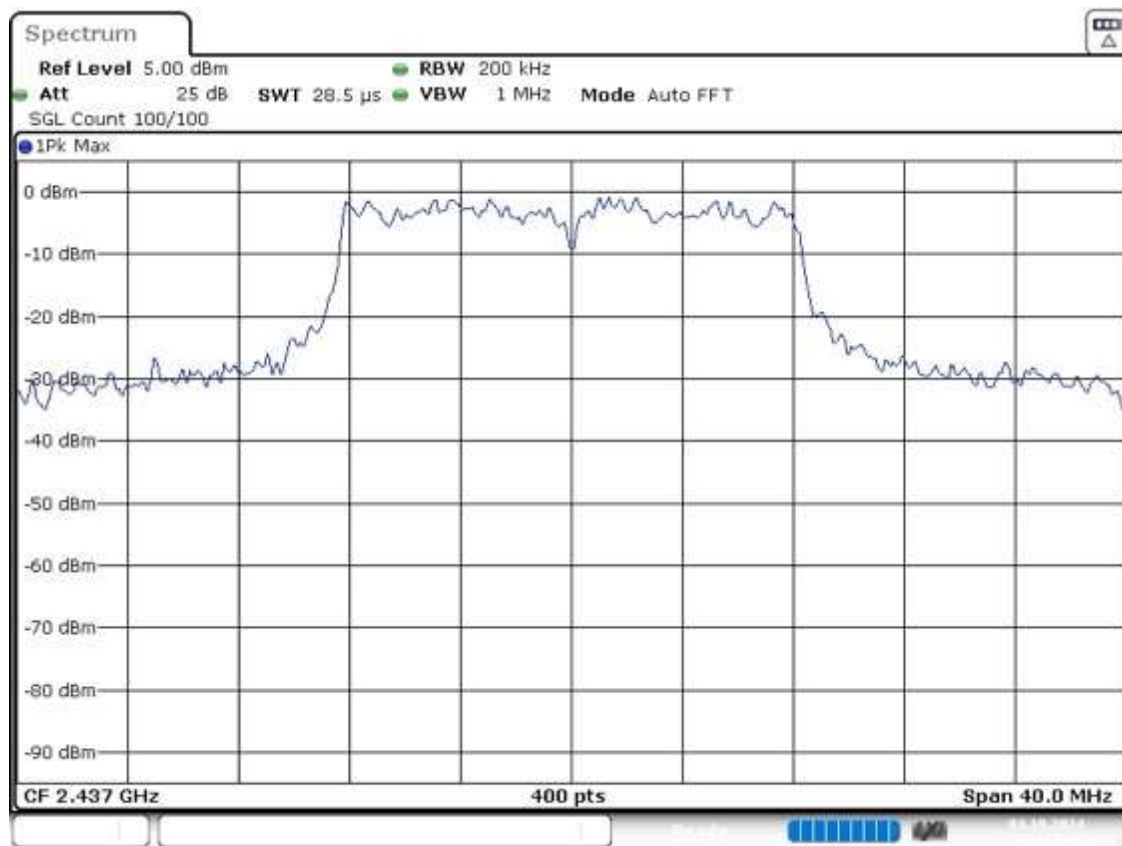
(continuation of the "99 % Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Result
2437.000000	PASS

99 % Bandwidth



Bandwidth



Date: 3.OCT.2024 03:22:43

Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.41700 GHz	2.41700 GHz
Stop Frequency	2.45700 GHz	2.45700 GHz
Span	40.000 MHz	40.000 MHz
RBW	200.000 kHz	>= 200.000 kHz
VBW	1.000 MHz	>= 600.000 kHz
SweepPoints	400	~ 400
SweepTime	28.477 μ s	AUTO
Reference Level	5.000 dBm	-5.000 dBm
Attenuation	25.000 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 (2437 MHz; 24.000 dBm; 20 MHz)

Customized settings.

Result

DUT Frequency (MHz)	Result
2437.000000	PASS

Final measurements

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

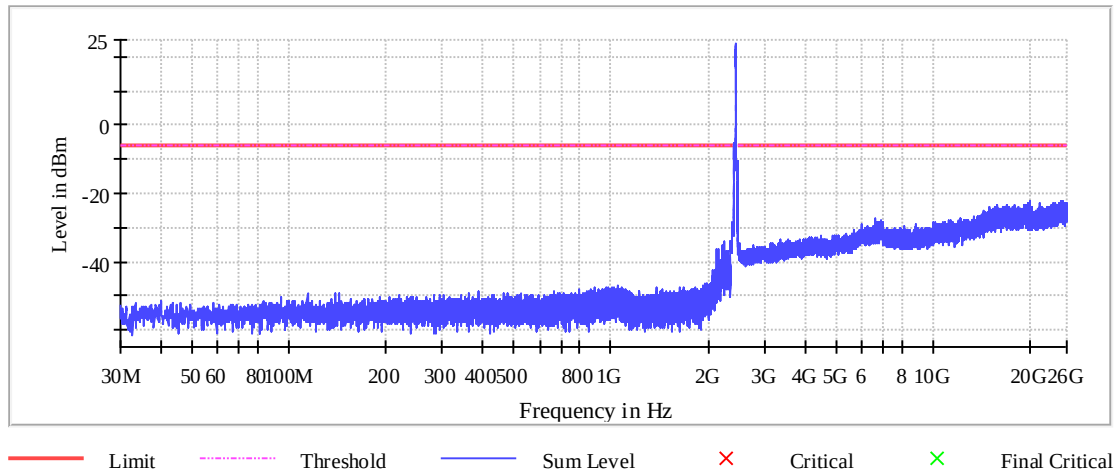
Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
25070.024976	-22.2	15.9	-6.2
25347.804951	-22.2	15.9	-6.2
19862.752734	-22.5	16.3	-6.2
24705.530616	-22.6	16.4	-6.2
25542.544881	-22.6	16.4	-6.2
24607.793217	-22.7	16.5	-6.2
25076.638785	-22.8	16.6	-6.2
24704.795749	-22.8	16.6	-6.2
25921.001727	-22.8	16.6	-6.2
25488.899542	-22.8	16.6	-6.2
25013.440166	-22.9	16.6	-6.2
25018.584240	-22.9	16.7	-6.2
25180.989993	-22.9	16.7	-6.2
19825.274484	-23.0	16.7	-6.2
23717.133613	-23.0	16.8	-6.2

Measurement Settings

Start Frequency (MHz)	Stop Frequency (MHz)	Pre Measurement	Final Measurement
30.000000	2350.000000	1	1
2350.000000	2483.500000	2	1
2483.500000	26000.000000	1	1

Spurious



Minimum Emission Bandwidth 6 dB (2462 MHz; 24.000 dBm; 20 MHz)

Customized settings.

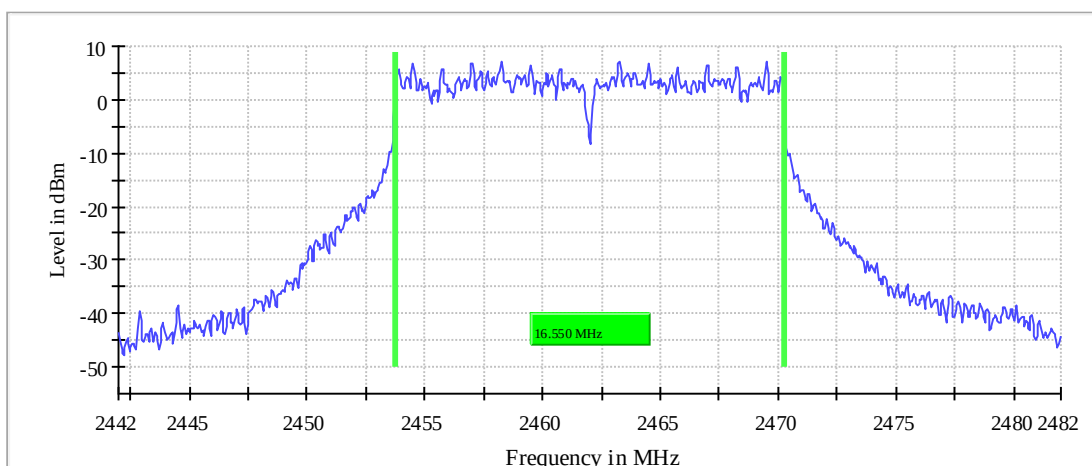
6 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2462.000000	16.550000	0.500000	---	2453.725000	2470.275000

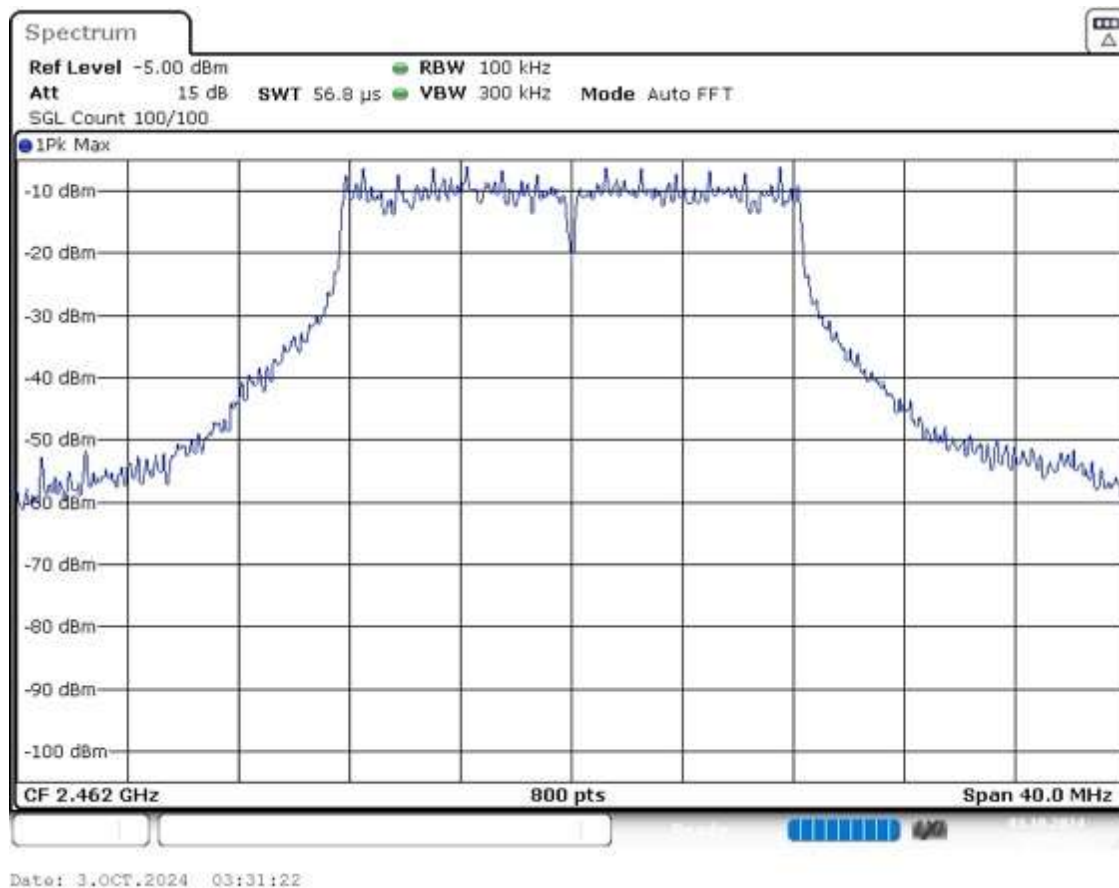
(continuation of the "6 dB Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
2462.000000	7.1	PASS

6 dB Bandwidth



Bandwidth



Power Spectral Density (2462 MHz; 24.000 dBm; 20 MHz)

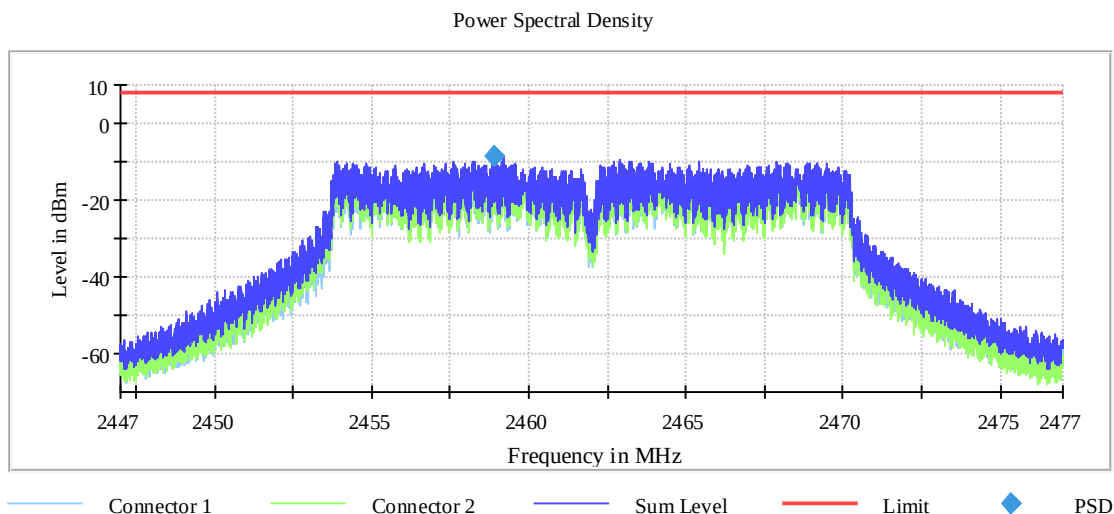
Customized settings.

Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
2462.000000	2458.895750	-8.533	8.0	PASS

Ports

Port	State
1	used
2	used



Occupied Channel Bandwidth 99% (2462 MHz; 24.000 dBm; 20 MHz)

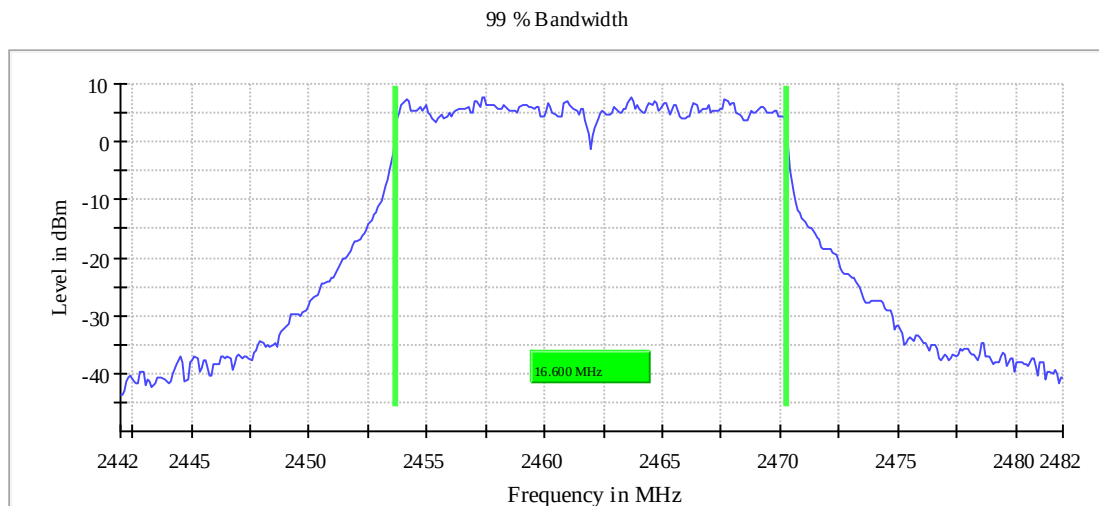
Customized settings.

99 % Bandwidth

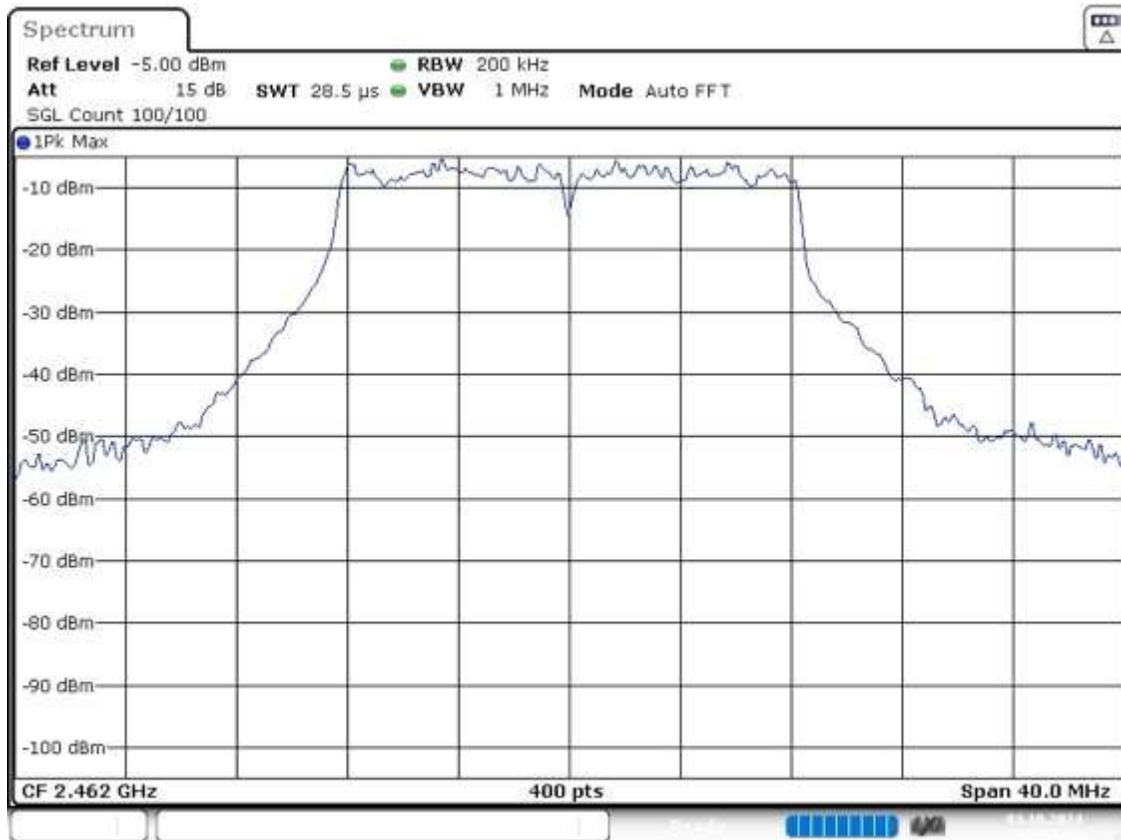
DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2462.000000	16.600000	---	---	2453.650000	2470.250000

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

DUT Frequency (MHz)	Result
2462.000000	PASS



Bandwidth



Date: 3.OCT.2024 03:32:17

Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.44200 GHz	2.44200 GHz
Stop Frequency	2.48200 GHz	2.48200 GHz
Span	40.000 MHz	40.000 MHz
RBW	200.000 kHz	>= 200.000 kHz
VBW	1.000 MHz	>= 600.000 kHz
SweepPoints	400	~ 400
Sweeptime	28.477 μ s	AUTO
Reference Level	-5.000 dBm	-5.000 dBm
Attenuation	15.000 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 (2462 MHz; 24.000 dBm; 20 MHz)

Customized settings.

Result

DUT Frequency (MHz)	Result
2462.000000	PASS

Final measurements

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

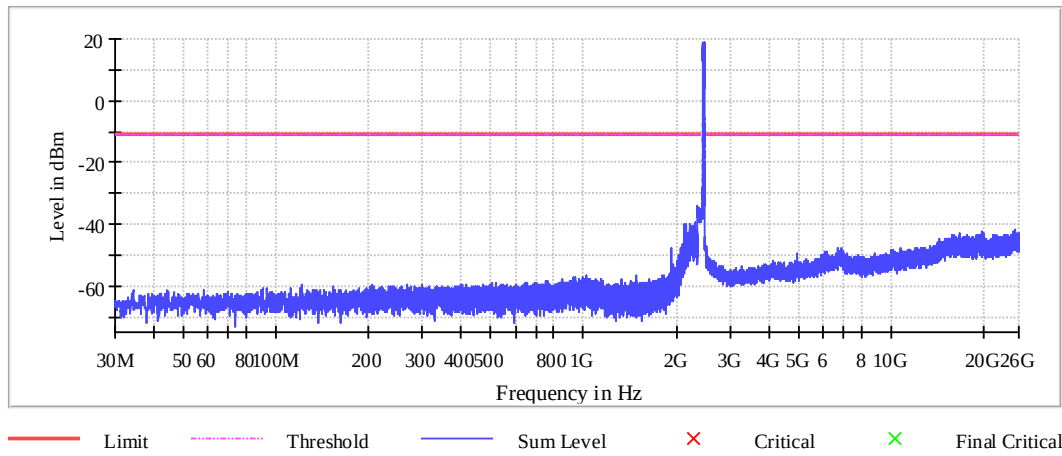
Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
2351.975000	-34.1	23.1	-10.9
2350.825000	-34.4	23.4	-10.9
2352.025000	-34.4	23.5	-10.9
2362.275000	-34.6	23.7	-10.9
2350.575000	-34.6	23.7	-10.9
2357.175000	-34.8	23.9	-10.9
2350.875000	-34.9	23.9	-10.9
2357.125000	-35.0	24.1	-10.9
2364.375000	-35.0	24.1	-10.9
2350.775000	-35.0	24.1	-10.9
2367.725000	-35.1	24.1	-10.9
2387.075000	-35.1	24.2	-10.9
2350.525000	-35.1	24.2	-10.9
2387.025000	-35.1	24.2	-10.9
2367.975000	-35.1	24.2	-10.9

Measurement Settings

Start Frequency (MHz)	Stop Frequency (MHz)	Pre Measurement	Final Measurement
30.000000	2350.000000	1	1
2350.000000	2483.500000	2	1
2483.500000	26000.000000	1	1

Spurious



-- End of Report --