

WiFi n Model Annex

Summary

Test	Frequency (MHz)	Nominal Power (dBm)	Nominal Bandwidth (MHz)	Result
RF output power	2412.000	24.0	20.000000	PASS
Minimum Emission Bandwidth 6 dB	2412.000	24.0	20.000000	PASS
Power Spectral Density	2412.000	24.0	20.000000	PASS
Occupied Channel Bandwidth 99%	2412.000	24.0	20.000000	PASS
Band Edge low	2412.000	24.0	20.000000	PASS
Tx Spurious Emission	2412.000	24.0	20.000000	PASS
Minimum Emission Bandwidth 6 dB	2437.000	24.0	20.000000	PASS
Occupied Channel Bandwidth 99%	2437.000	24.0	20.000000	PASS
Band Edge low	2437.000	24.0	20.000000	PASS
Band Edge high	2437.000	24.0	20.000000	PASS
Tx Spurious Emission	2437.000	24.0	20.000000	PASS
Minimum Emission Bandwidth 6 dB	2462.000	24.0	20.000000	PASS
Occupied Channel Bandwidth 99%	2462.000	24.0	20.000000	PASS
Band Edge high	2462.000	24.0	20.000000	PASS
Tx Spurious Emission	2462.000	24.0	20.000000	PASS
Minimum Emission Bandwidth 6 dB	2422.000	24.0	40.000000	PASS
Occupied Channel Bandwidth 99%	2422.000	24.0	40.000000	PASS
Band Edge low	2422.000	24.0	40.000000	PASS
Tx Spurious Emission	2422.000	24.0	40.000000	PASS
Minimum Emission Bandwidth 6 dB	2437.000	24.0	40.000000	PASS
Occupied Channel Bandwidth 99%	2437.000	24.0	40.000000	PASS
Band Edge low	2437.000	24.0	40.000000	PASS
Band Edge high	2437.000	24.0	40.000000	PASS
Tx Spurious Emission	2437.000	24.0	40.000000	PASS
Minimum Emission Bandwidth 6 dB	2452.000	24.0	40.000000	PASS
Occupied Channel Bandwidth 99%	2452.000	24.0	40.000000	PASS
Band Edge high	2452.000	24.0	40.000000	PASS
Tx Spurious Emission	2452.000	24.0	40.000000	PASS

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

Result

DUT Frequency (MHz)	Gated RMS (dBm)	Limit Max (dBm)	Gated EIRP (dBm)	DutyCycle (%)	Result
2412.000000	15.9	30.0	15.9	89.490	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

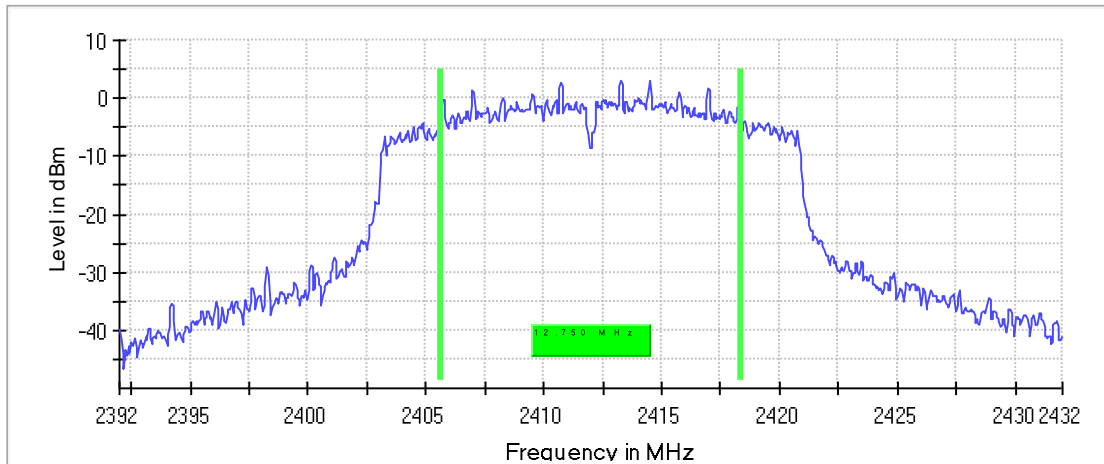
Minimum Emission Bandwidth 6 dB (2412 MHz; 24.000 dBm; 20 MHz)

6 dB Bandwidth

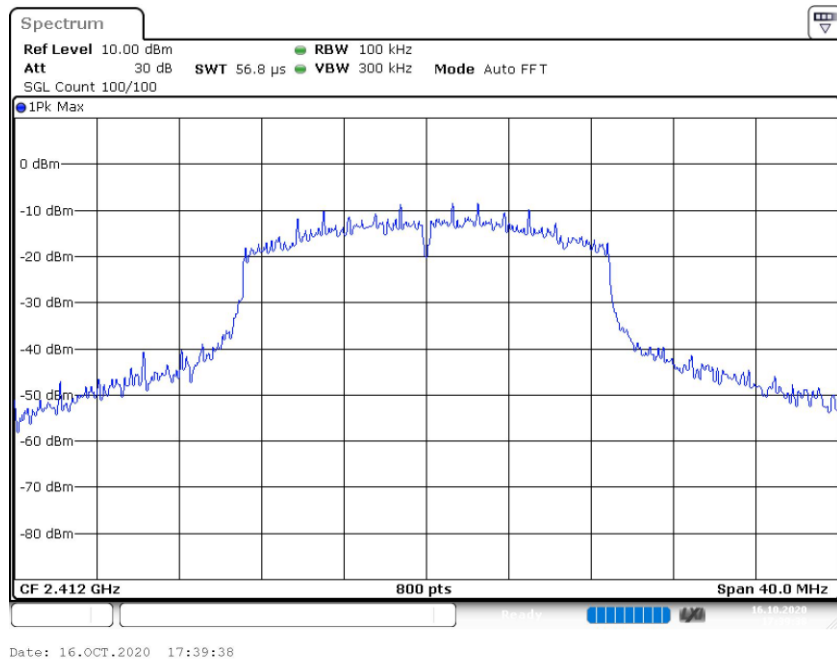
DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2412.000000	12.750000	0.500000	---	2405.625000	2418.375000

DUT Frequency (MHz)	Max Level (dBm)	Result
2412.000000	3.0	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
SweepTime	56.836 μs	AUTO
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 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)

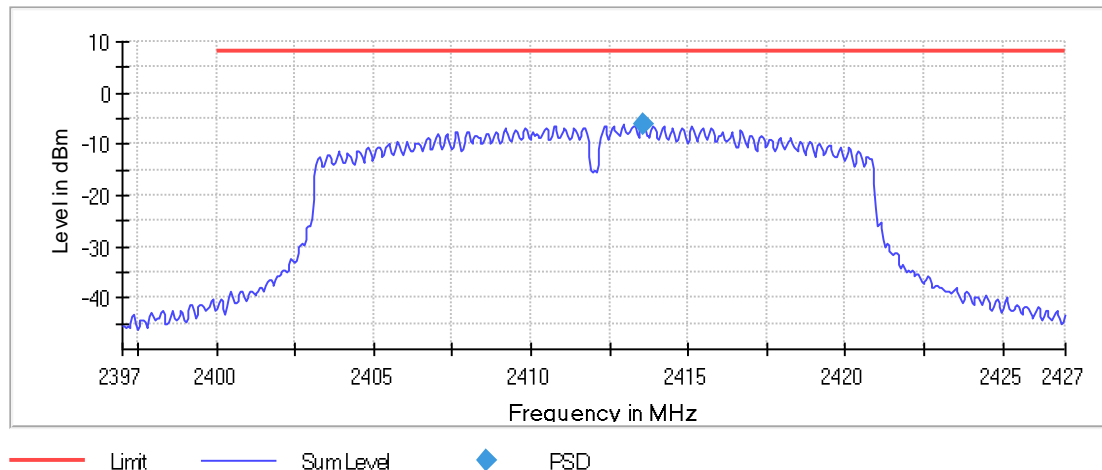
Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
2412.000000	2413.575000	-6.032	8.0	PASS

Ports

Port	State
1	used

Power Spectral Density



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	100.000 kHz	<= 100.000 kHz
VBW	300.000 kHz	>= 300.000 kHz
SweepPoints	600	~ 600
Sweeptime	1.040 ms	AUTO
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	AUTO
Detector	RMS	RMS
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Average Power	Average Power
Sweeptype	Sweep	Sweep
Preamp	off	off

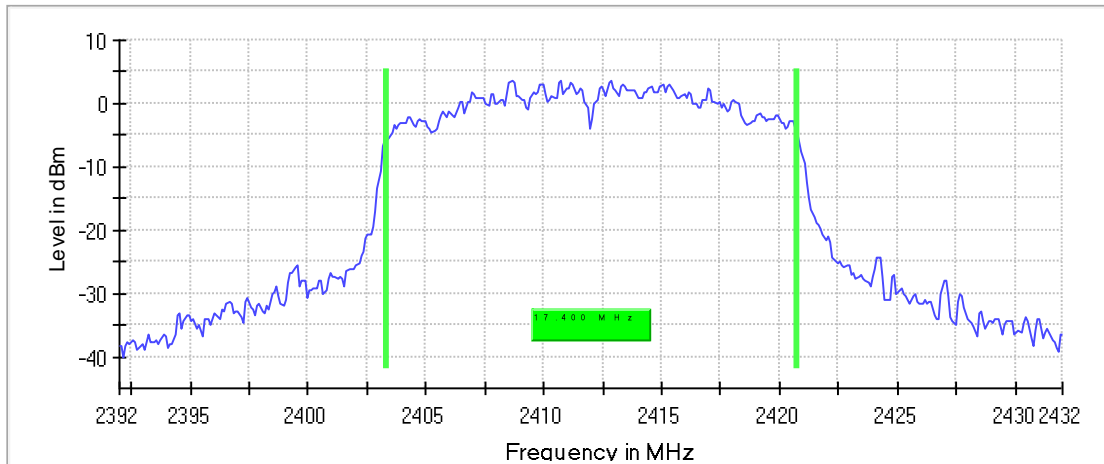
Occupied Channel Bandwidth 99% (2412 MHz; 24.000 dBm; 20 MHz)

99 % Bandwidth

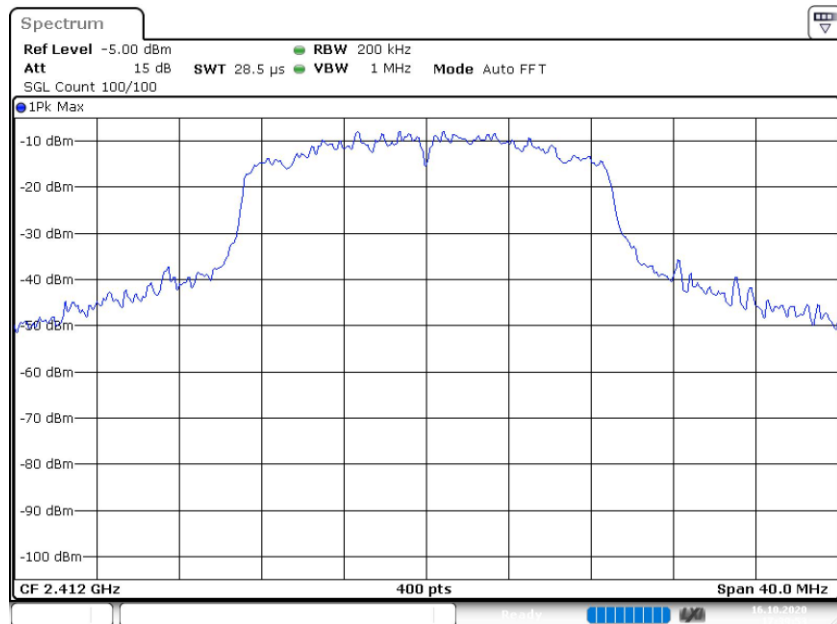
DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2412.000000	17.400000	---	---	2403.350000	2420.750000

DUT Frequency (MHz)	Result
2412.000000	PASS

99 %Bandwidth



Bandwidth



Date: 16.OCT.2020 17:39:53

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

Band Edge low (2412 MHz; 24.000 dBm; 20 MHz)

Result

DUT Frequency (MHz)	Result
2412.000000	PASS

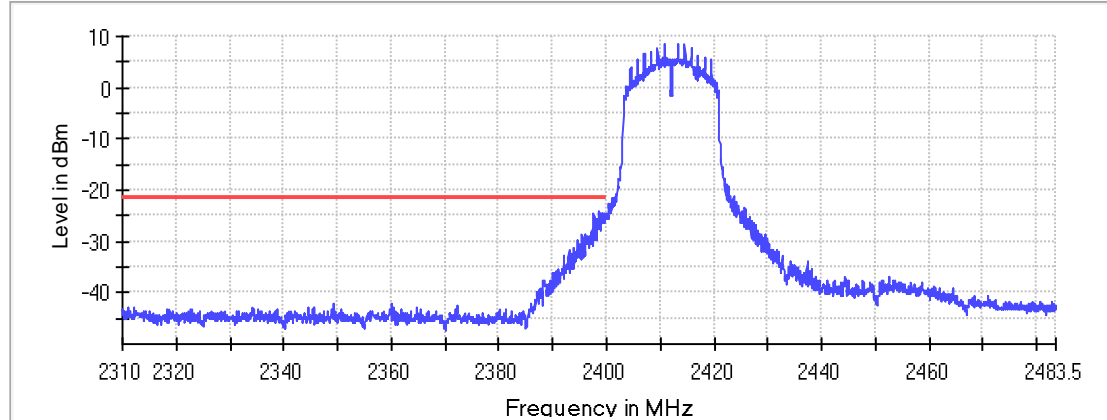
Inband Peak

Frequency (MHz)	Level (dBm)
2413.275000	8.5

Measurements

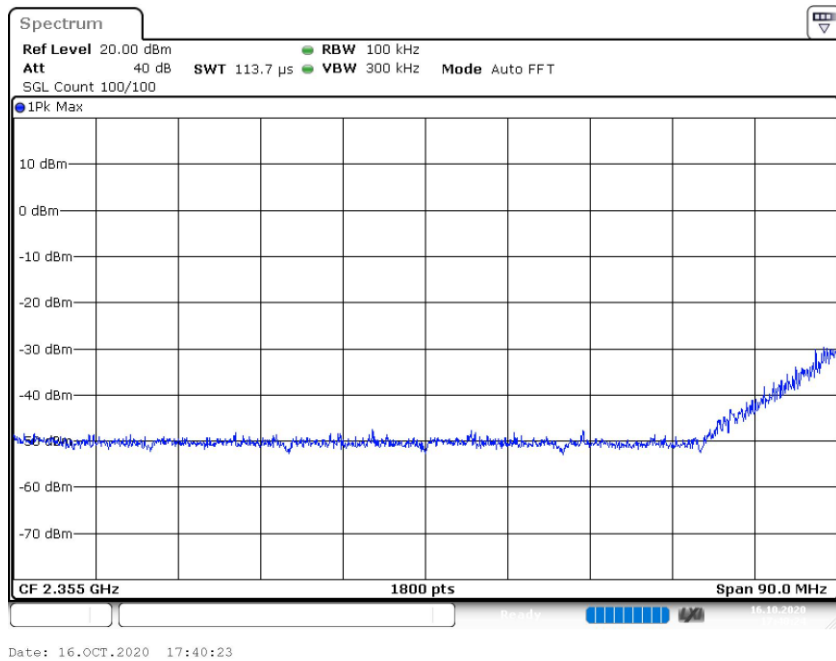
Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
2398.525000	-24.1	2.6	-21.5	PASS
2398.875000	-24.3	2.8	-21.5	PASS
2398.475000	-24.4	2.9	-21.5	PASS
2399.475000	-24.5	3.1	-21.5	PASS
2397.625000	-24.6	3.1	-21.5	PASS
2399.225000	-24.6	3.1	-21.5	PASS
2399.525000	-24.7	3.2	-21.5	PASS
2399.975000	-24.8	3.3	-21.5	PASS
2399.275000	-24.9	3.4	-21.5	PASS
2398.825000	-25.0	3.5	-21.5	PASS
2399.775000	-25.0	3.6	-21.5	PASS
2398.625000	-25.1	3.6	-21.5	PASS
2399.875000	-25.1	3.6	-21.5	PASS
2397.575000	-25.2	3.7	-21.5	PASS
2399.825000	-25.2	3.7	-21.5	PASS

Band Edge

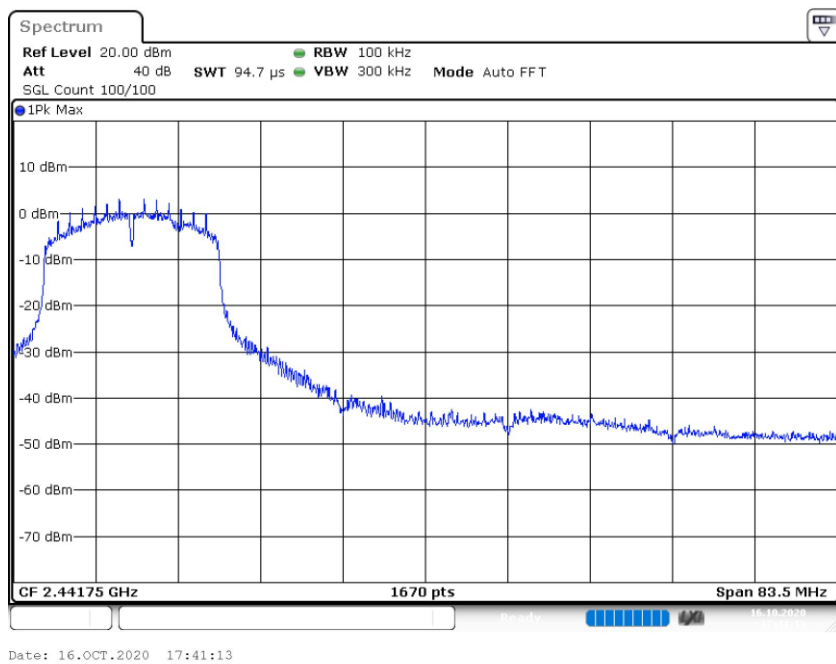


— Limit — SumLevel × Fail

Band Edge Connector 1_0



Band Edge Connector 1_1



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	\leq 100.000 kHz
VBW	300.000 kHz	\geq 300.000 kHz
SweepPoints	1800	\sim 1800
Sweptime	113.672 μ s	AUTO
Reference Level	20.000 dBm	20.000 dBm
Attenuation	40.000 dB	AUTO

Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	19 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.00 dB	0.50 dB

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	20.000 dBm
Attenuation	40.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	38 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.34 dB	0.50 dB

Tx Spurious Emission (2412 MHz; 24.000 dBm; 20 MHz)

Result

DUT Frequency (MHz)	Result
2412.000000	PASS

Final measurements

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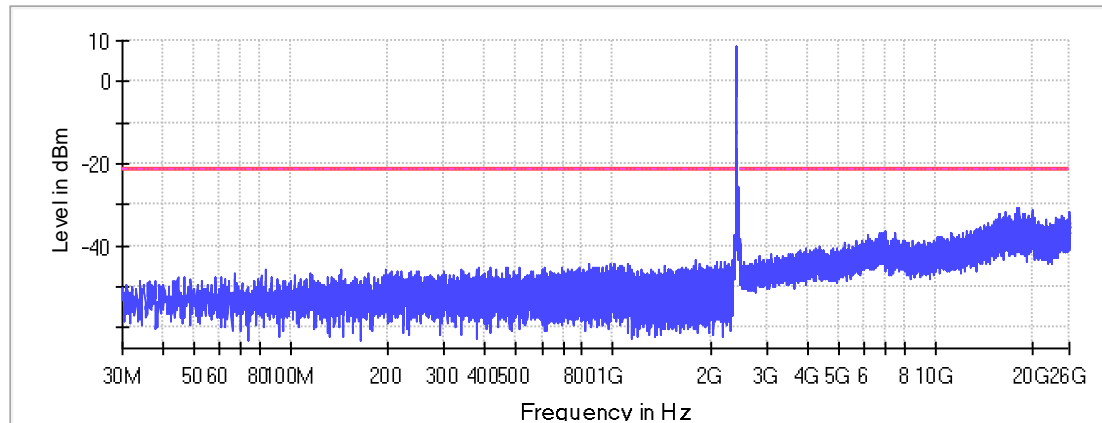
Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
2398.875000	-26.0	4.4	-21.6
2398.825000	-26.6	5.1	-21.6
2398.925000	-26.8	5.2	-21.6
2398.275000	-27.0	5.4	-21.6
2399.425000	-27.4	5.8	-21.6
2399.475000	-27.4	5.8	-21.6
2398.225000	-27.5	5.9	-21.6
2398.325000	-27.6	6.0	-21.6
2398.525000	-27.7	6.1	-21.6
2398.475000	-27.8	6.3	-21.6
2399.275000	-27.9	6.3	-21.6
2399.525000	-28.0	6.4	-21.6
2399.225000	-28.0	6.4	-21.6
2399.775000	-28.0	6.4	-21.6
2398.975000	-28.0	6.4	-21.6

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



— Limit — SumLevel - - - Threshold × Critical × Final Critical

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
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

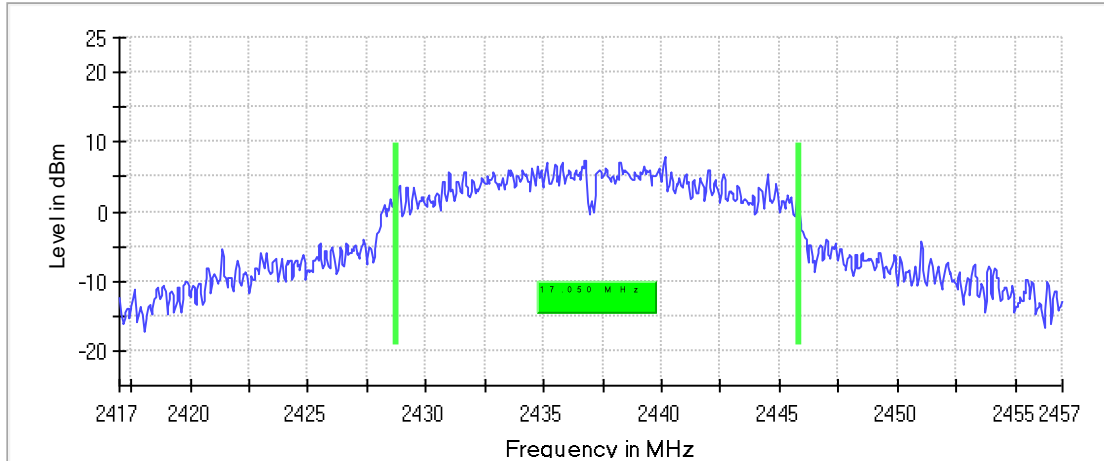
Minimum Emission Bandwidth 6 dB (2437 MHz; 24.000 dBm; 20 MHz)

6 dB Bandwidth

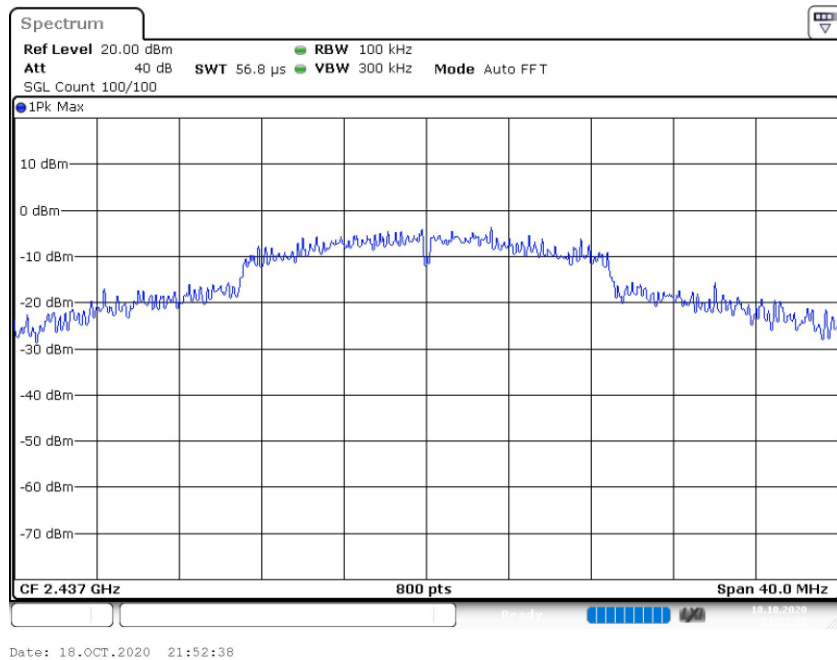
DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2437.000000	17.050000	0.500000	---	2428.775000	2445.825000

DUT Frequency (MHz)	Max Level (dBm)	Result
2437.000000	7.9	PASS

6 dB Bandwidth



Bandwidth



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

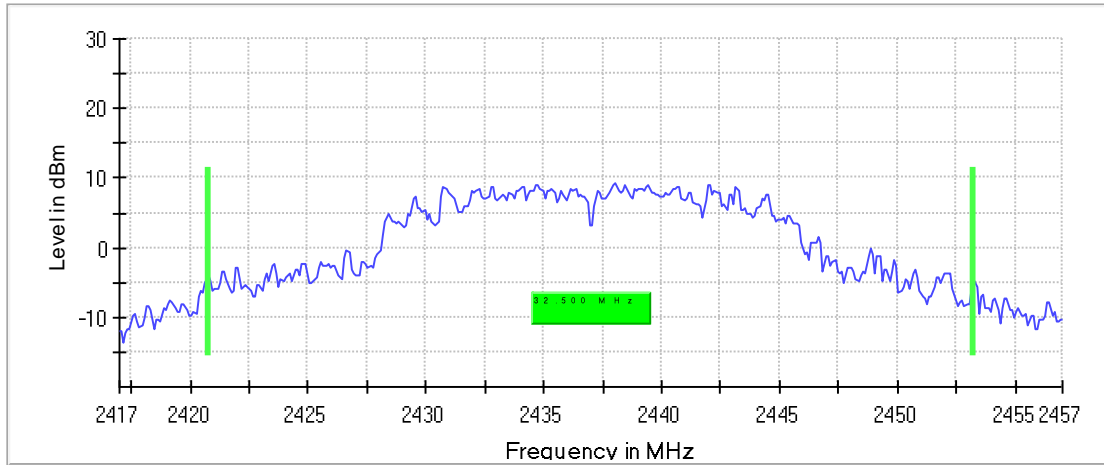
99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2437.000000	17.050000	0.500000	---	2428.775000	2445.825000

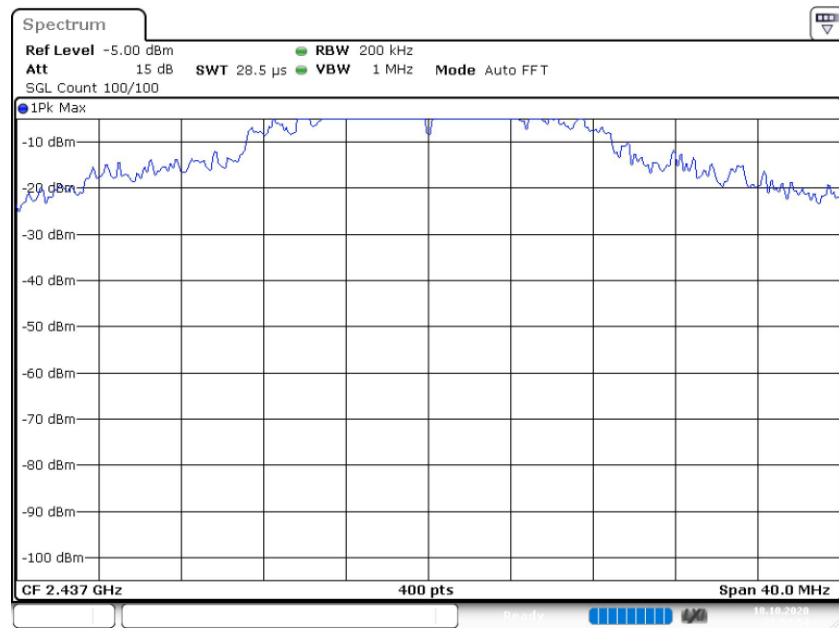
2437.000000	32.500000	---	---	2420.750000	2453.250000
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DUT Frequency (MHz)	Result
2437.000000	PASS

99 %Bandwidth



Bandwidth



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Band Edge low (2437 MHz; 24.000 dBm; 20 MHz)

Result

DUT Frequency (MHz)	Result
2437.000000	PASS

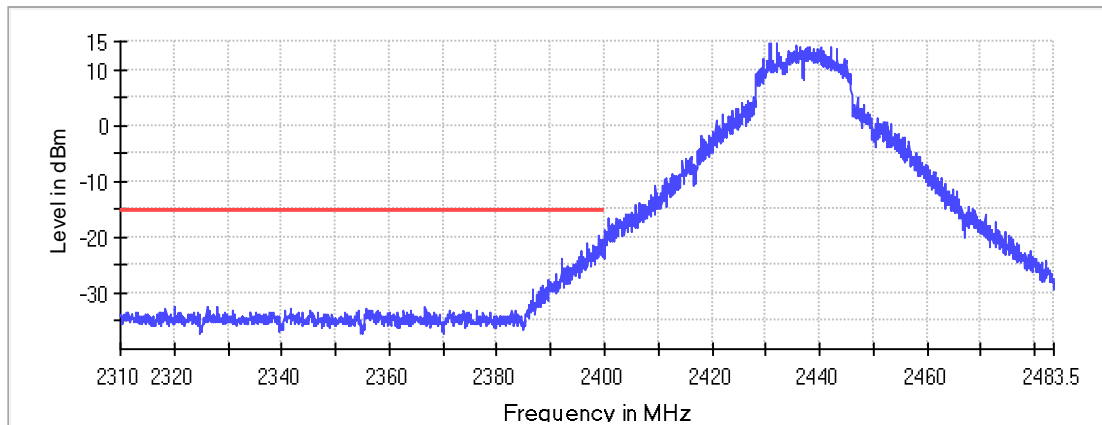
Inband Peak

Frequency (MHz)	Level (dBm)
2430.725000	14.7

Measurements

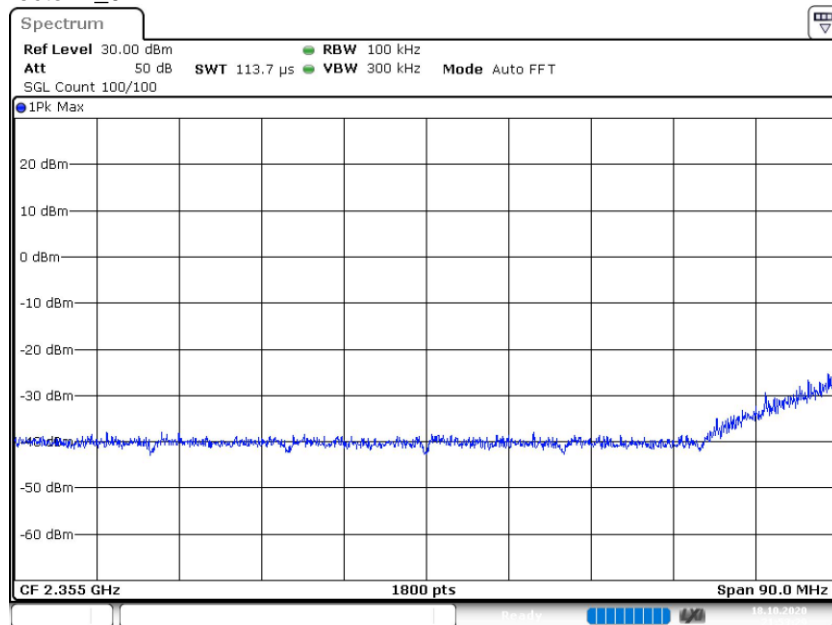
Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
2398.875000	-19.7	4.4	-15.3	PASS
2398.925000	-20.1	4.7	-15.3	PASS
2399.775000	-20.3	4.9	-15.3	PASS
2399.125000	-20.4	5.0	-15.3	PASS
2399.825000	-20.5	5.2	-15.3	PASS
2399.175000	-20.6	5.3	-15.3	PASS
2398.825000	-20.7	5.3	-15.3	PASS
2399.075000	-21.0	5.6	-15.3	PASS
2399.725000	-21.0	5.7	-15.3	PASS
2396.725000	-21.2	5.8	-15.3	PASS
2399.475000	-21.5	6.2	-15.3	PASS
2397.975000	-21.5	6.2	-15.3	PASS
2399.525000	-21.5	6.2	-15.3	PASS
2396.775000	-21.6	6.3	-15.3	PASS
2398.025000	-21.7	6.4	-15.3	PASS

Band Edge



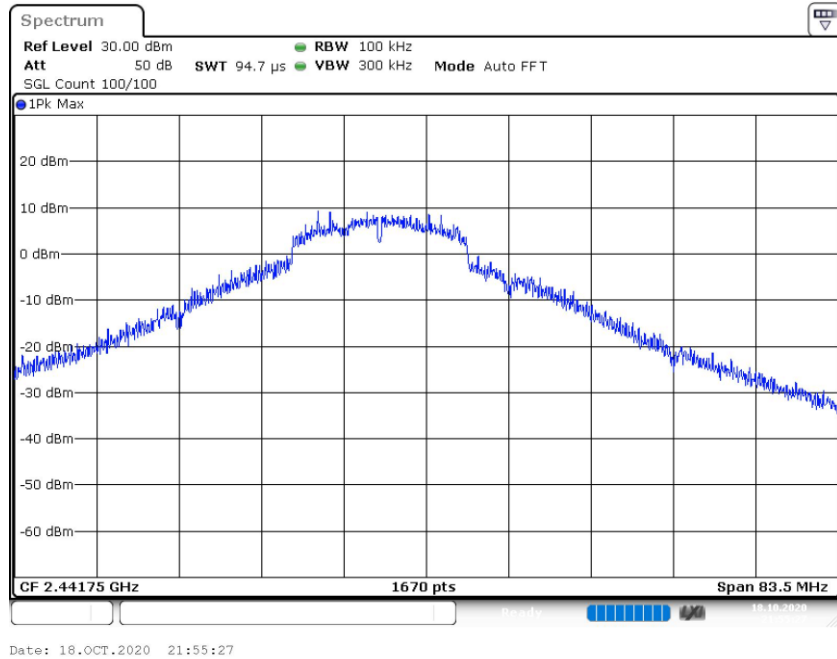
— Limit — SumLevel × Fail

Band Edge Connector 1_0



Date: 18.OCT.2020 21:53:29

Band Edge Connector 1_1



Band Edge high (2437 MHz; 24.000 dBm; 20 MHz)

Result

DUT Frequency (MHz)	Result
2437.000000	PASS

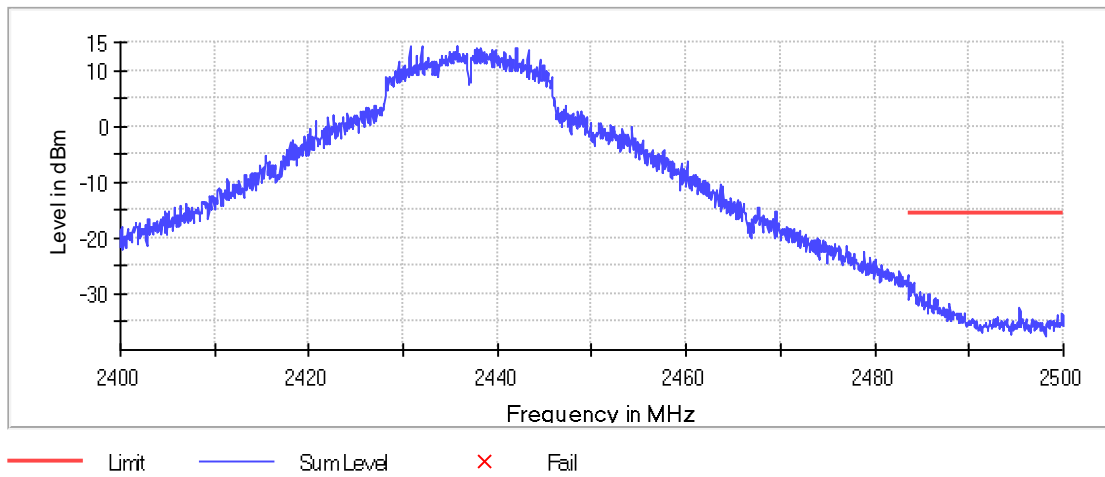
Inband Peak

Frequency (MHz)	Level (dBm)
2430.725000	14.5

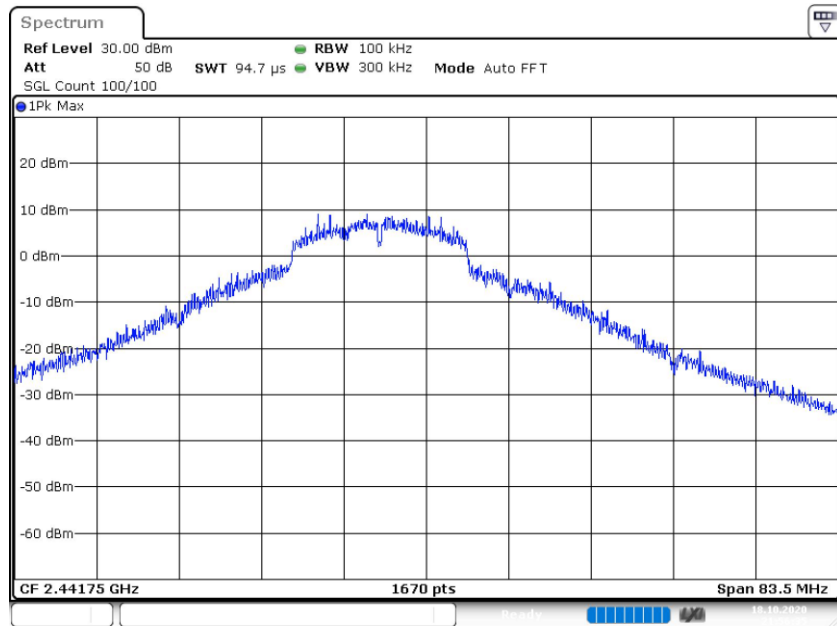
Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
2483.775000	-27.8	12.3	-15.5	PASS
2484.125000	-28.0	12.5	-15.5	PASS
2483.525000	-28.2	12.7	-15.5	PASS
2484.175000	-28.4	12.8	-15.5	PASS
2483.725000	-28.4	12.8	-15.5	PASS
2483.975000	-28.4	12.9	-15.5	PASS
2483.925000	-28.7	13.1	-15.5	PASS
2484.075000	-28.8	13.3	-15.5	PASS
2483.825000	-28.9	13.4	-15.5	PASS
2483.575000	-29.1	13.6	-15.5	PASS
2484.025000	-29.7	14.2	-15.5	PASS
2483.625000	-29.8	14.2	-15.5	PASS
2484.825000	-29.8	14.3	-15.5	PASS
2485.175000	-29.9	14.4	-15.5	PASS
2484.275000	-30.0	14.4	-15.5	PASS

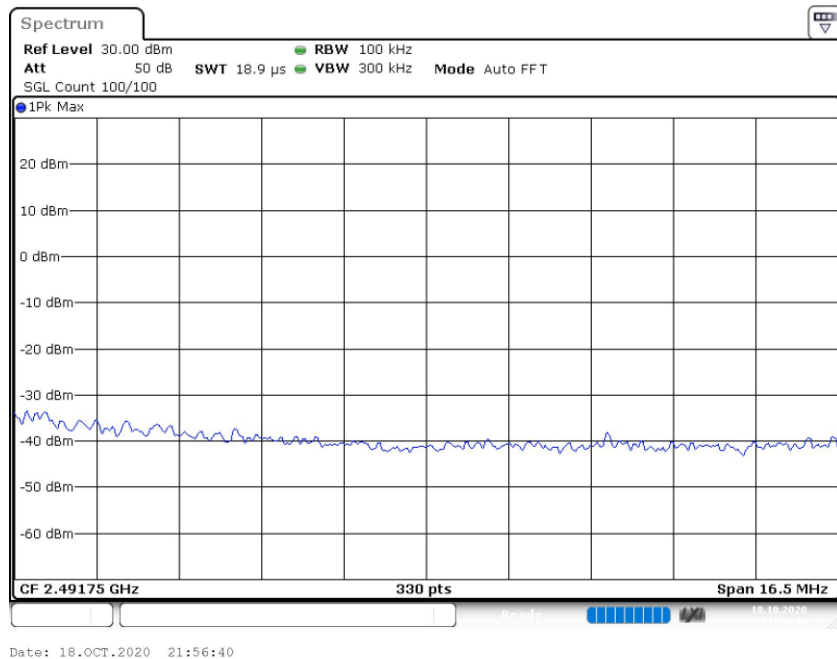
Band Edge



Band Edge Connector 1_0



Band Edge Connector 1_1



Tx Spurious Emission (2437 MHz; 24.000 dBm; 20 MHz)

Result

DUT Frequency (MHz)	Result
2437.000000	PASS

Final measurements

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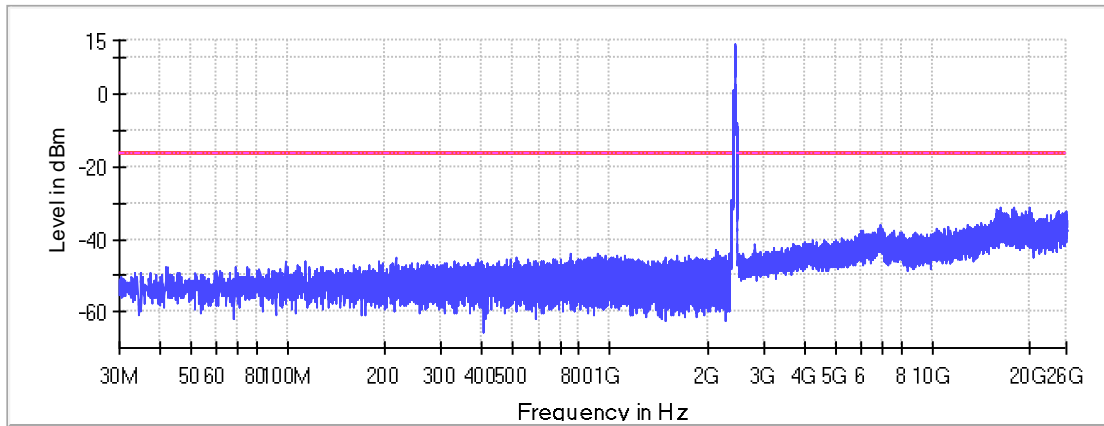
Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
2398.875000	-19.8	3.5	-16.3
2398.575000	-20.2	3.9	-16.3
2398.625000	-20.4	4.1	-16.3
2398.525000	-20.5	4.2	-16.3
2398.825000	-20.5	4.2	-16.3
2398.925000	-20.5	4.2	-16.3
2397.625000	-21.5	5.2	-16.3
2398.675000	-21.7	5.4	-16.3
2397.675000	-21.8	5.5	-16.3
2399.775000	-21.9	5.7	-16.3
2399.725000	-22.1	5.8	-16.3
2397.575000	-22.2	5.9	-16.3
2399.175000	-22.4	6.1	-16.3
2399.225000	-22.4	6.1	-16.3
2398.275000	-22.6	6.3	-16.3

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



— Limit — SumLevel - - - Threshold × Critical × Final Critical

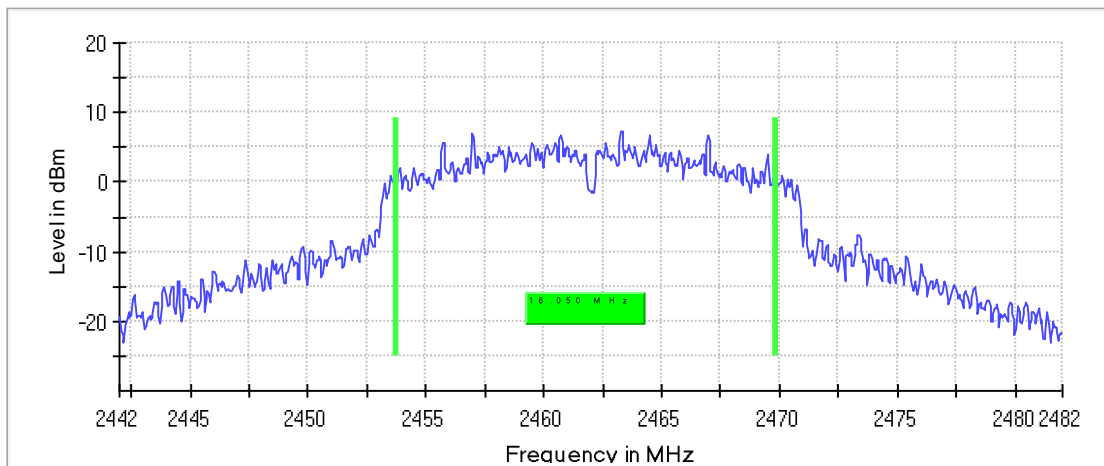
Minimum Emission Bandwidth 6 dB (2462 MHz; 24.000 dBm; 20 MHz)

6 dB Bandwidth

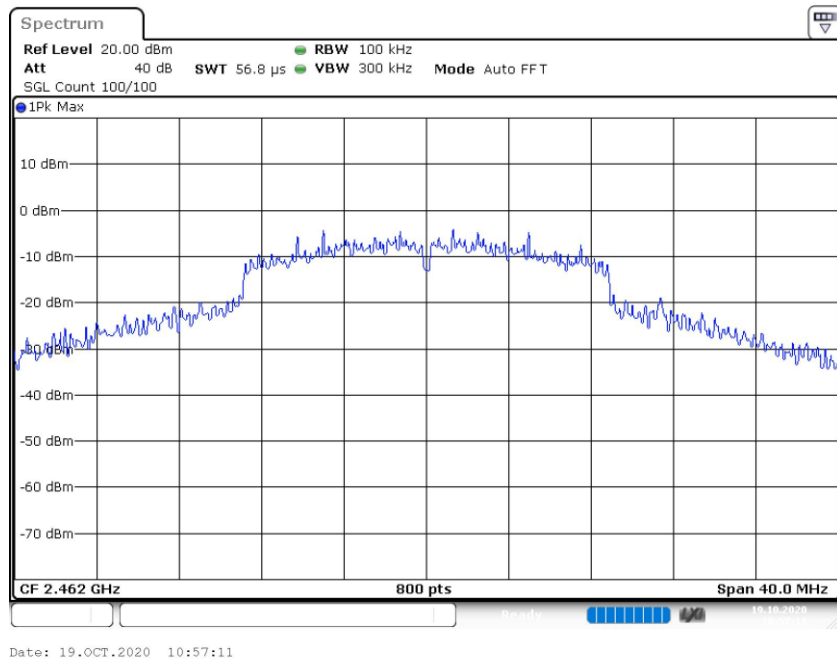
DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2462.000000	16.050000	0.500000	--	2453.775000	2469.825000

DUT Frequency (MHz)	Max Level (dBm)	Result
2462.000000	7.3	PASS

6 dB Bandwidth



Bandwidth



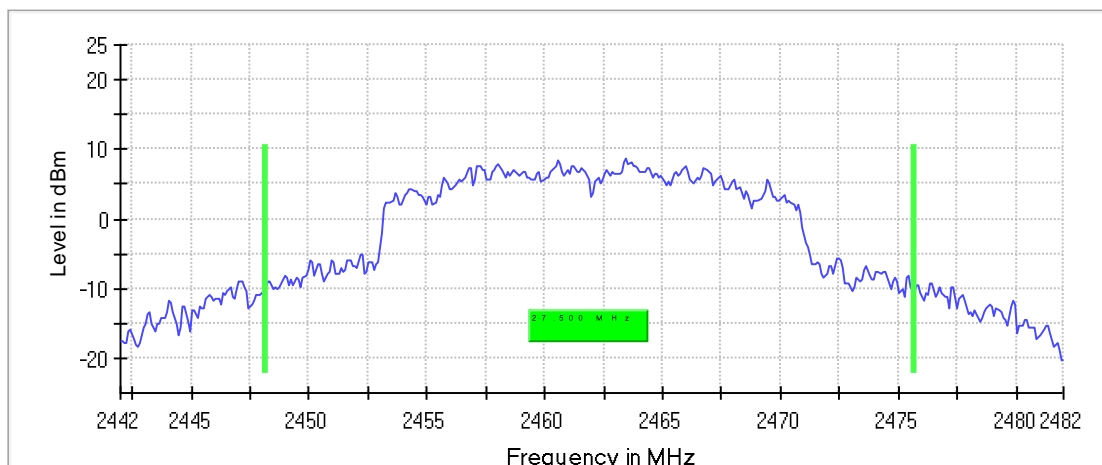
Occupied Channel Bandwidth 99% (2462 MHz; 24.000 dBm; 20 MHz)

99 % Bandwidth

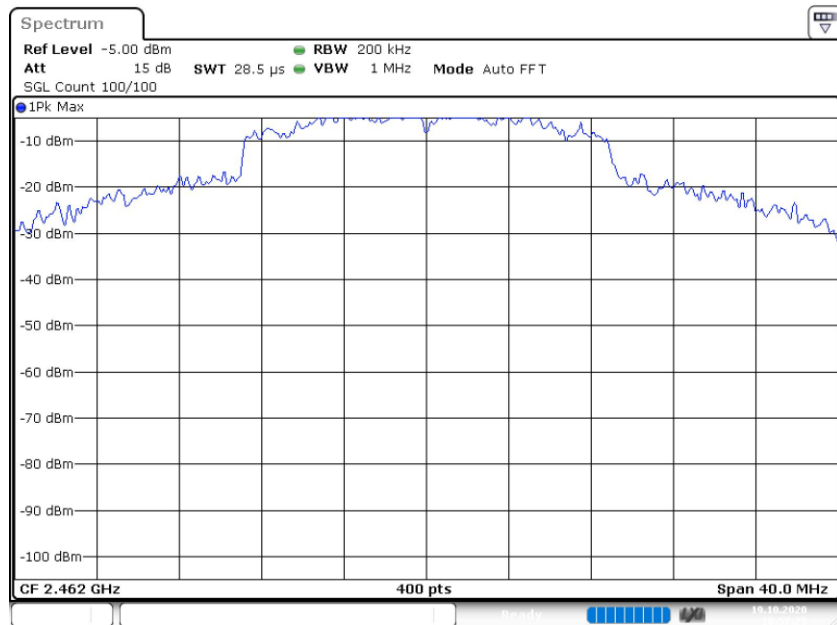
DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2462.000000	27.500000	---	---	2448.150000	2475.650000

DUT Frequency (MHz)	Result
2462.000000	PASS

99 %Bandwidth



Bandwidth



Date: 19.OCT.2020 10:57:26

Band Edge high (2462 MHz; 24.000 dBm; 20 MHz)

Result

DUT Frequency (MHz)	Result
2462.000000	PASS

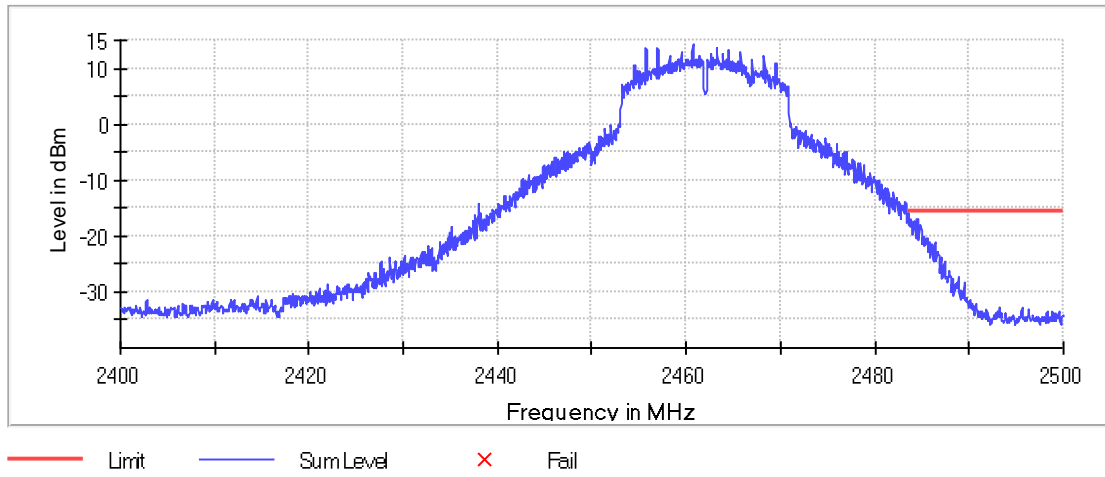
Inband Peak

Frequency (MHz)	Level (dBm)
2460.725000	14.3

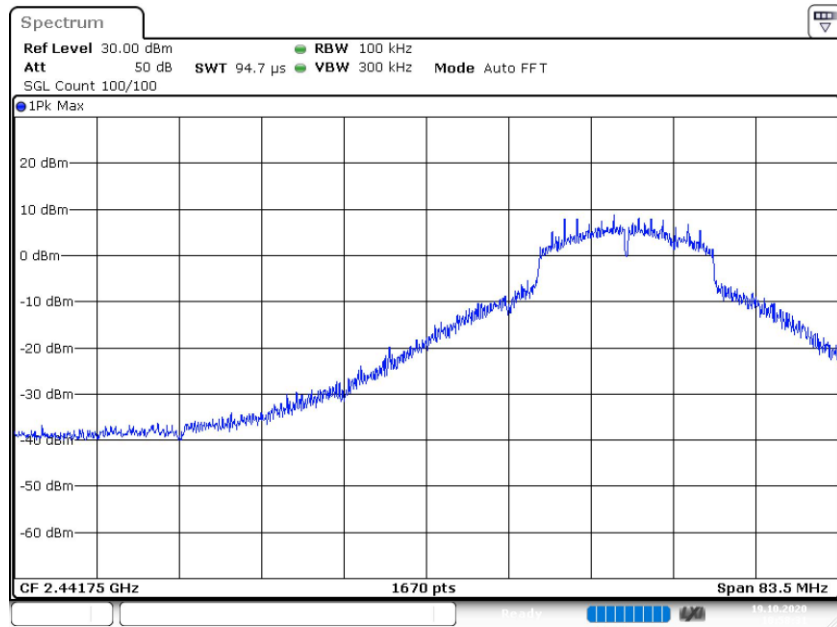
Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
2483.525000	-16.1	0.4	-15.7	PASS
2483.625000	-16.4	0.7	-15.7	PASS
2483.575000	-16.5	0.8	-15.7	PASS
2483.875000	-16.8	1.1	-15.7	PASS
2484.525000	-16.9	1.1	-15.7	PASS
2483.825000	-17.0	1.2	-15.7	PASS
2484.475000	-17.0	1.3	-15.7	PASS
2484.125000	-17.4	1.7	-15.7	PASS
2483.925000	-17.6	1.9	-15.7	PASS
2484.575000	-17.7	1.9	-15.7	PASS
2484.075000	-17.9	2.2	-15.7	PASS
2483.675000	-18.0	2.2	-15.7	PASS
2484.875000	-18.1	2.4	-15.7	PASS
2483.775000	-18.2	2.4	-15.7	PASS
2484.175000	-18.2	2.4	-15.7	PASS

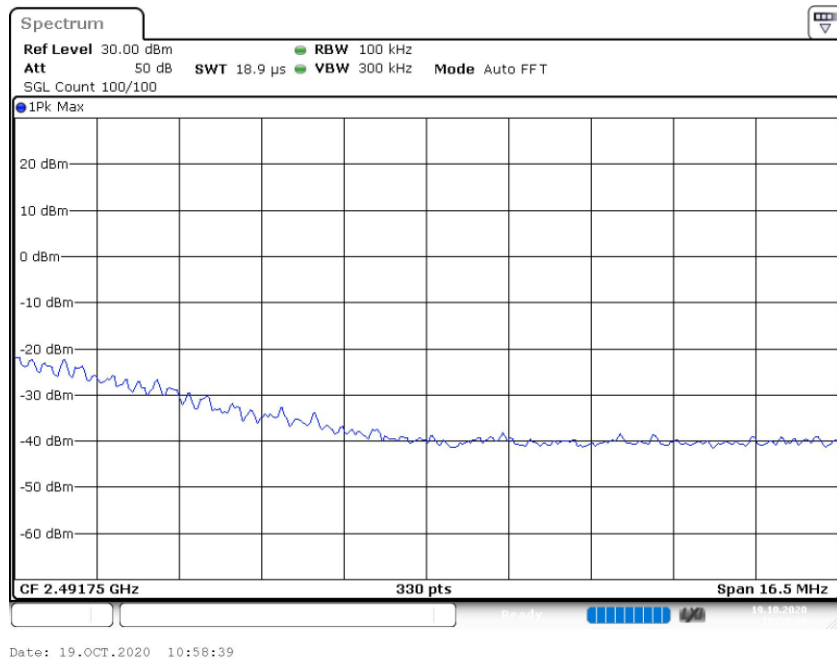
Band Edge



Band Edge Connector 1_0



Band Edge Connector 1_1



Tx Spurious Emission (2462 MHz; 24.000 dBm; 20 MHz)

Result

DUT Frequency (MHz)	Result
2462.000000	PASS

Final measurements

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

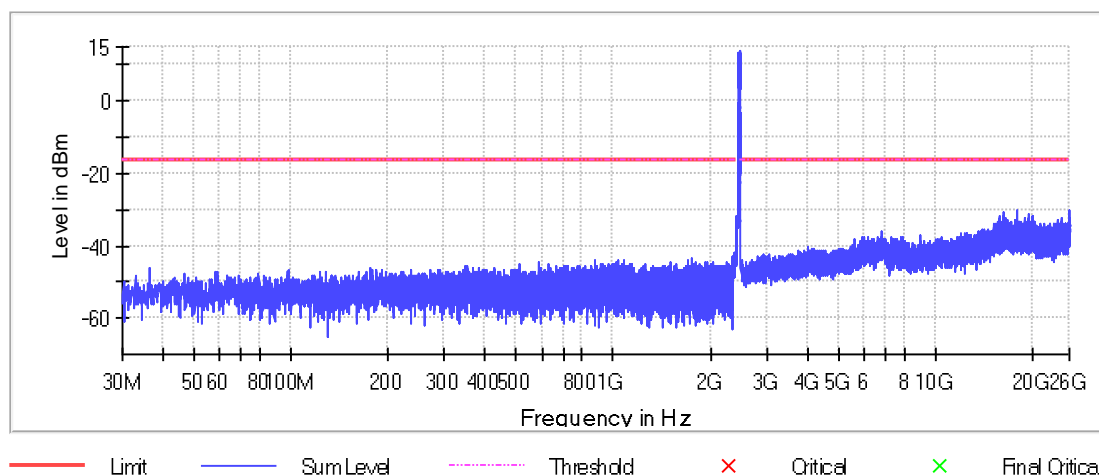
Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
2485.337169	-21.9	5.7	-16.2
2484.602301	-22.0	5.8	-16.2
2483.867434	-22.6	6.4	-16.2
2486.072037	-26.6	10.3	-16.2
17913.148831	-30.0	13.8	-16.2
25925.410932	-30.4	14.2	-16.2
16145.792108	-30.8	14.6	-16.2
19537.941228	-31.3	15.0	-16.2
16197.232844	-31.6	15.3	-16.2
19931.830294	-31.7	15.5	-16.2
2487.541772	-31.8	15.5	-16.2
19914.193471	-31.8	15.6	-16.2
15846.700970	-31.9	15.7	-16.2
2486.806904	-32.0	15.8	-16.2
24500.502539	-32.1	15.8	-16.2

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 (2422 MHz; 24.000 dBm; 40 MHz)

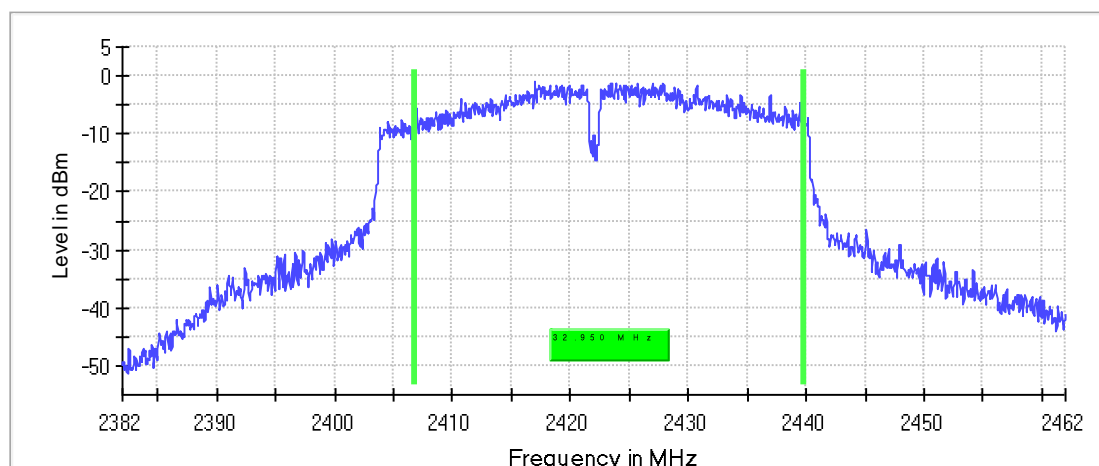
6 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2422.000000	32.950000	0.500000	---	2406.875000	2439.825000

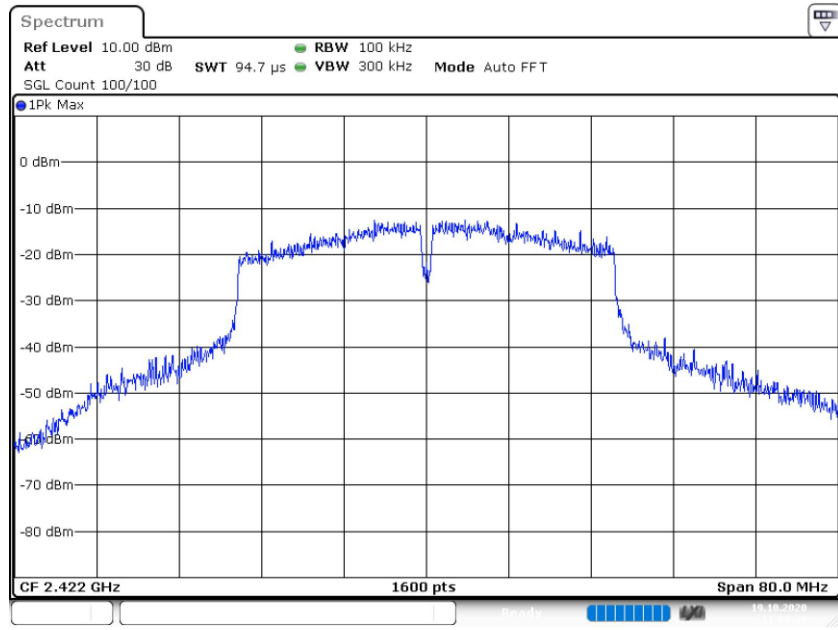
(continuation of the "6 dB Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
2422.000000	-1.0	PASS

6 dB Bandwidth



Bandwidth



Date: 19.OCT.2020 11:08:36

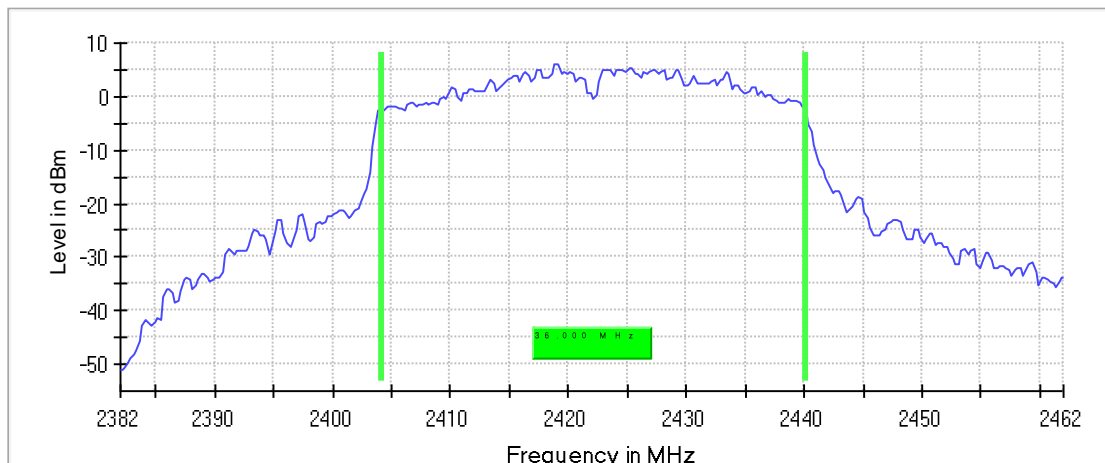
Occupied Channel Bandwidth 99% (2422 MHz; 24.000 dBm; 40 MHz)

99 % Bandwidth

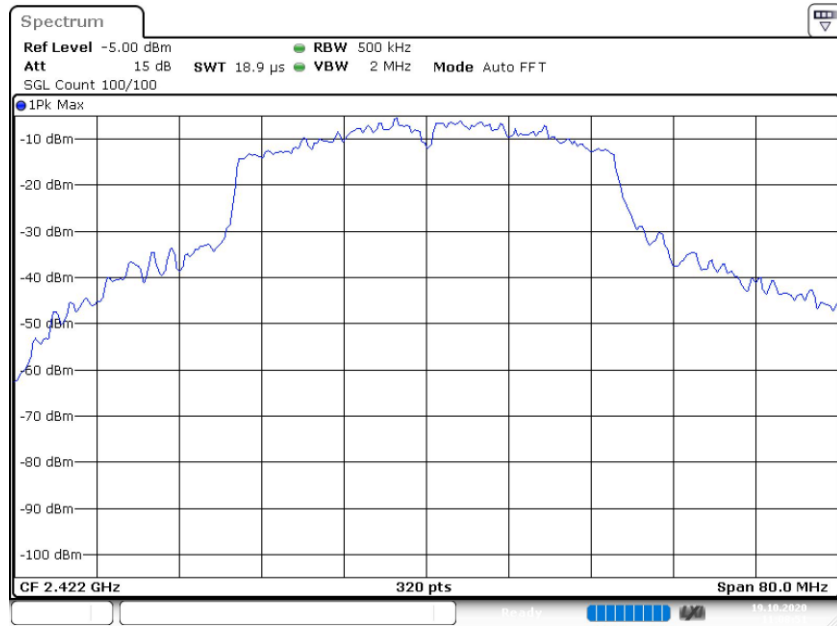
DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2422.000000	36.000000	---	---	2404.125000	2440.125000

DUT Frequency (MHz)	Result
2422.000000	PASS

99 %Bandwidth



Bandwidth



Date: 19.OCT.2020 11:08:52

Band Edge low (2422 MHz; 24.000 dBm; 40 MHz)

Result

DUT Frequency (MHz)	Result
2422.000000	PASS

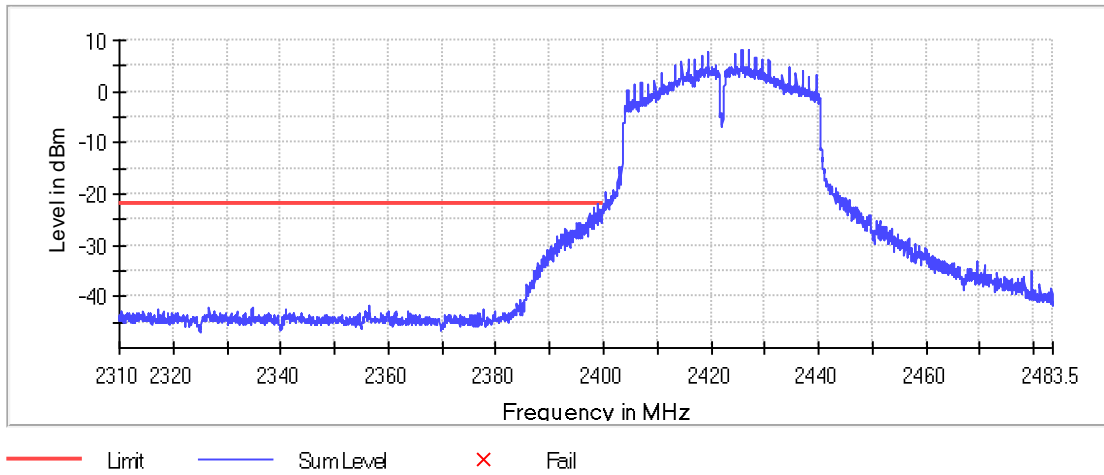
Inband Peak

Frequency (MHz)	Level (dBm)
2425.725000	8.2

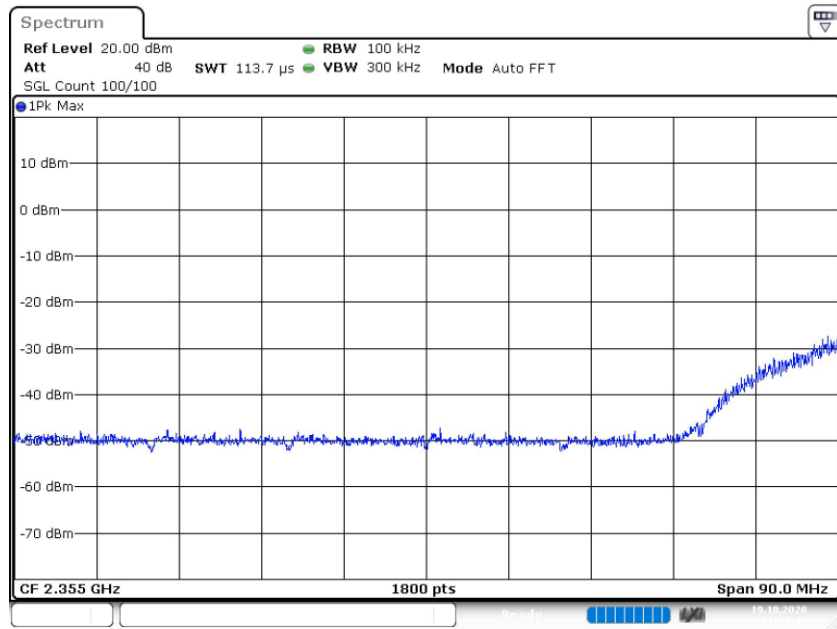
Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
2398.875000	-22.0	0.2	-21.8	PASS
2398.825000	-22.1	0.3	-21.8	PASS
2399.925000	-22.3	0.5	-21.8	PASS
2398.225000	-22.6	0.8	-21.8	PASS
2399.875000	-22.6	0.8	-21.8	PASS
2398.275000	-22.7	0.9	-21.8	PASS
2399.225000	-22.9	1.1	-21.8	PASS
2399.475000	-23.1	1.3	-21.8	PASS
2399.525000	-23.1	1.3	-21.8	PASS
2399.975000	-23.2	1.4	-21.8	PASS
2399.175000	-23.5	1.7	-21.8	PASS
2399.275000	-23.5	1.7	-21.8	PASS
2398.575000	-23.6	1.8	-21.8	PASS
2397.325000	-23.6	1.8	-21.8	PASS
2398.525000	-23.7	1.9	-21.8	PASS

Band Edge

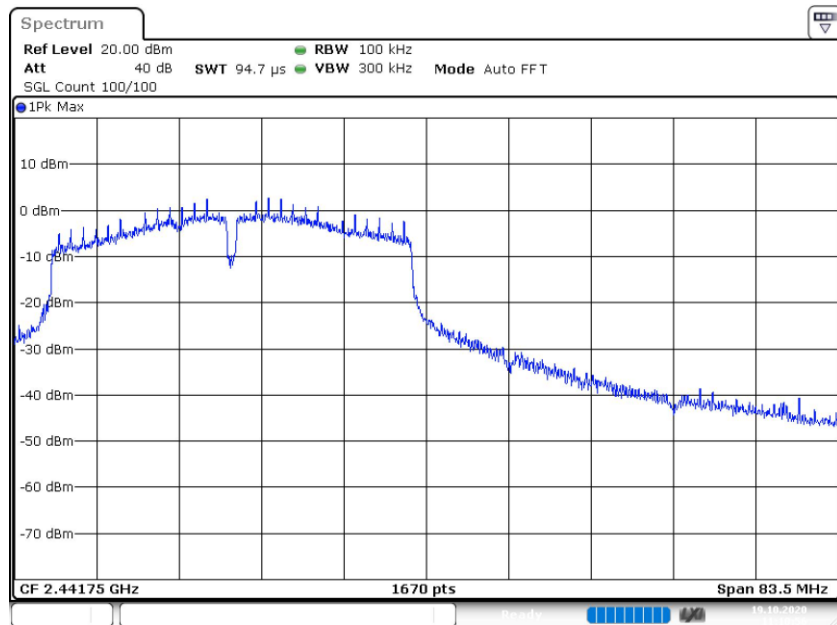


Band Edge Connector 1_0



Date: 19.OCT.2020 11:09:44

Band Edge Connector 1_1



Date: 19.OCT.2020 11:10:57

Tx Spurious Emission (2422 MHz; 24.000 dBm; 40 MHz)

Result

DUT Frequency (MHz)	Result
2422.000000	PASS

Final measurements

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

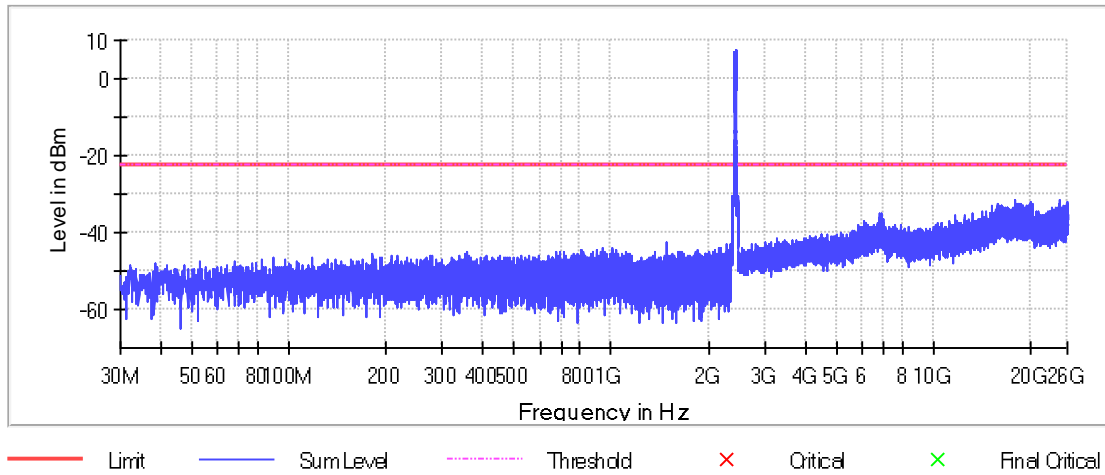
Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
2397.975000	-24.2	1.7	-22.4
2398.575000	-24.3	1.8	-22.4
2398.625000	-24.3	1.9	-22.4
2397.925000	-24.4	1.9	-22.4
2397.875000	-24.5	2.1	-22.4
2398.875000	-24.7	2.3	-22.4
2397.075000	-24.8	2.4	-22.4
2398.925000	-24.9	2.4	-22.4
2397.025000	-24.9	2.5	-22.4
2399.175000	-24.9	2.5	-22.4
2398.525000	-25.0	2.6	-22.4
2399.225000	-25.2	2.8	-22.4
2398.025000	-25.4	2.9	-22.4
2399.775000	-25.5	3.1	-22.4
2399.375000	-25.6	3.2	-22.4

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



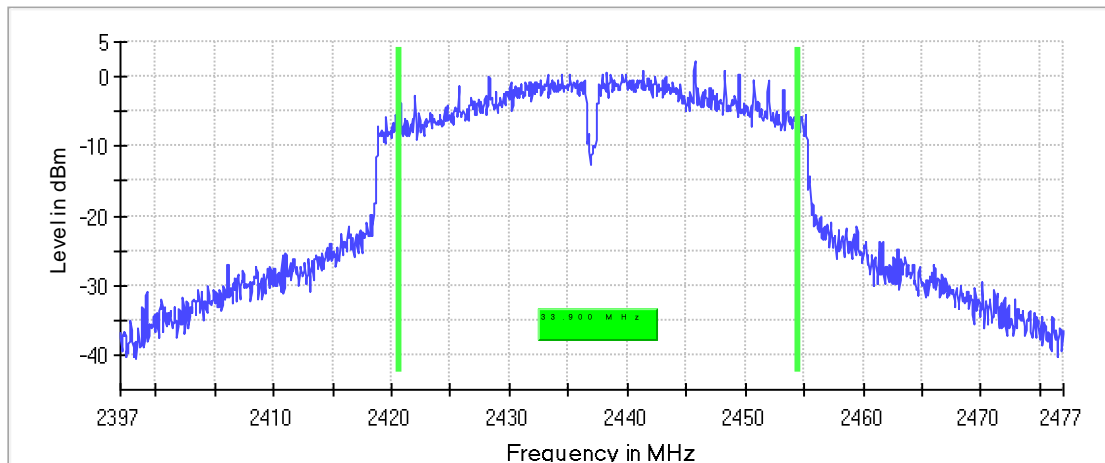
Minimum Emission Bandwidth 6 dB (2437 MHz; 24.000 dBm; 40 MHz)

6 dB Bandwidth

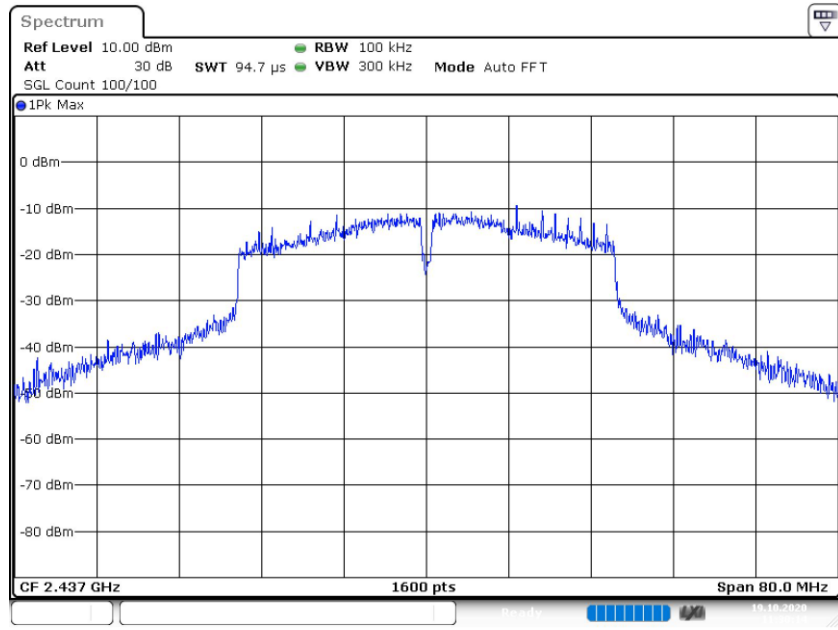
DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2437.000000	33.900000	0.500000	---	2420.675000	2454.575000

DUT Frequency (MHz)	Max Level (dBm)	Result
2437.000000	2.2	PASS

6 dB Bandwidth



Bandwidth



Date: 19.OCT.2020 11:30:14

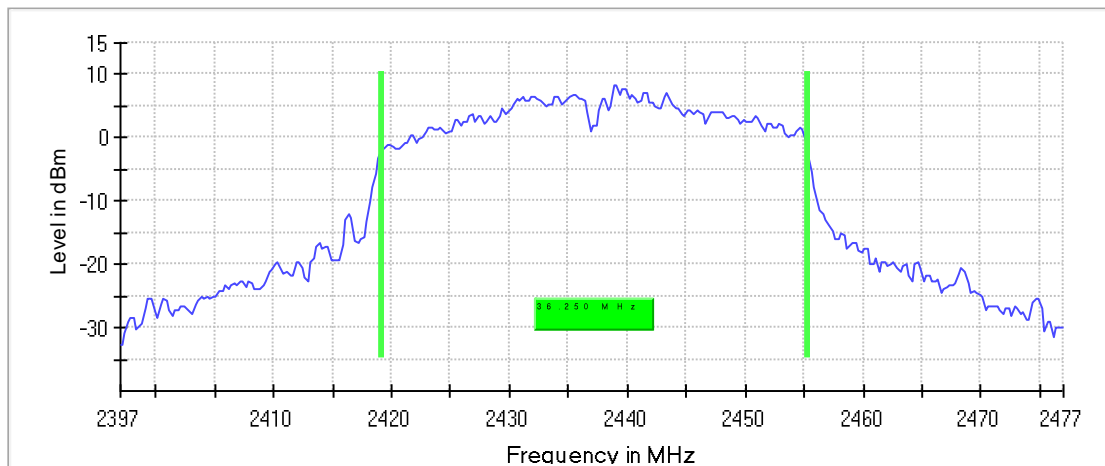
Occupied Channel Bandwidth 99% (2437 MHz; 24.000 dBm; 40 MHz)

99 % Bandwidth

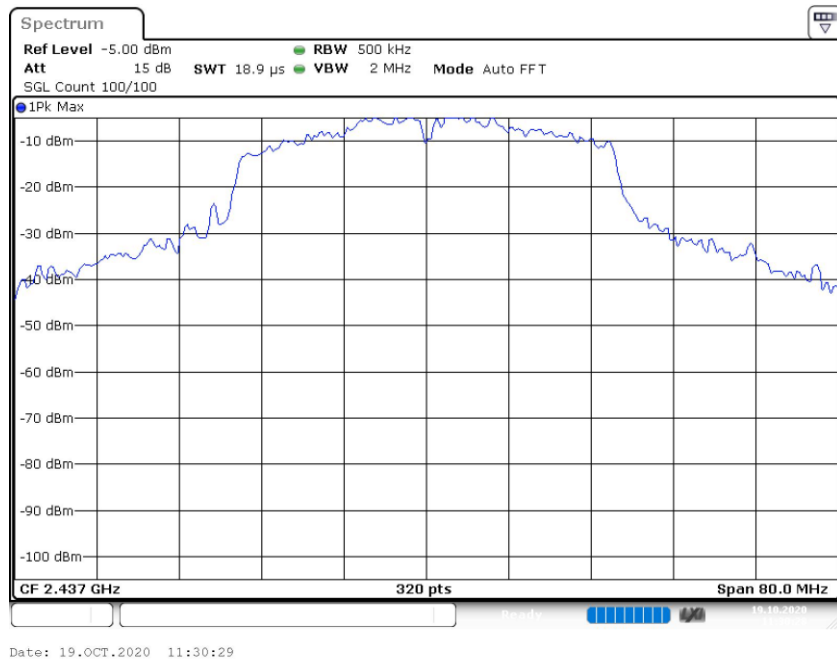
DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2437.000000	36.250000	---	---	2419.125000	2455.375000

DUT Frequency (MHz)	Result
2437.000000	PASS

99 %Bandwidth



Bandwidth



Band Edge low (2437 MHz; 24.000 dBm; 40 MHz)

Result

DUT Frequency (MHz)	Result
2437.000000	PASS

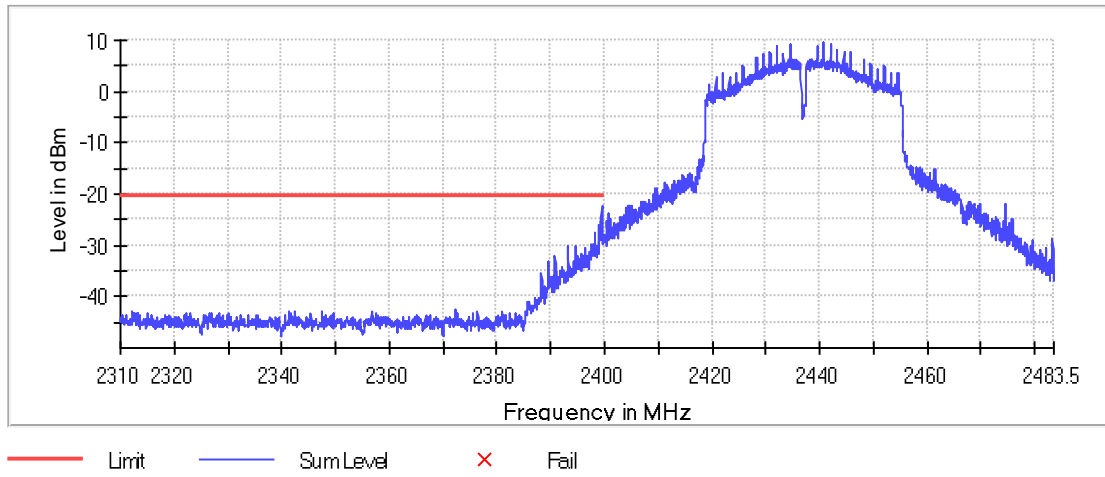
Inband Peak

Frequency (MHz)	Level (dBm)
2440.725000	9.6

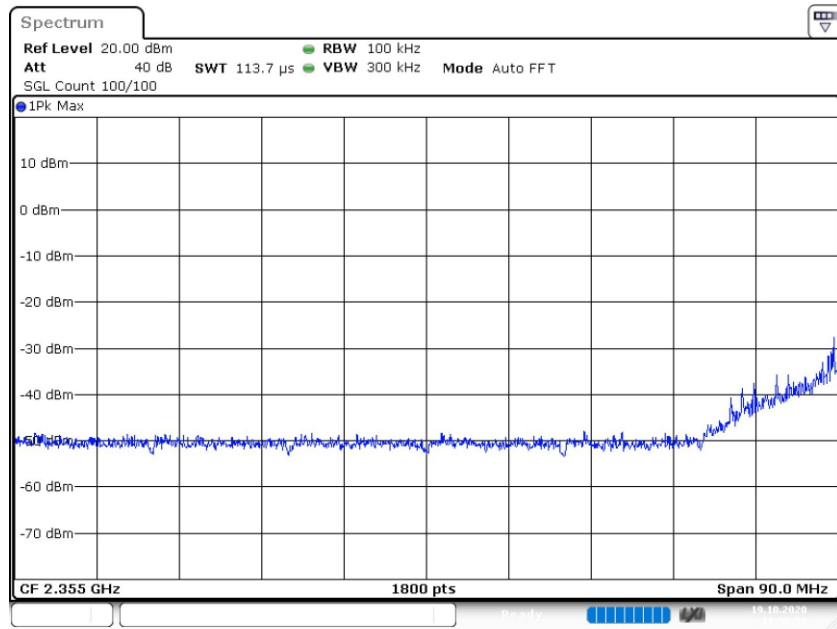
Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
2399.525000	-22.1	1.7	-20.4	PASS
2399.475000	-22.2	1.8	-20.4	PASS
2399.575000	-23.5	3.1	-20.4	PASS
2399.425000	-24.4	4.0	-20.4	PASS
2399.225000	-25.4	4.9	-20.4	PASS
2399.275000	-25.7	5.2	-20.4	PASS
2398.925000	-26.2	5.7	-20.4	PASS
2398.875000	-26.2	5.8	-20.4	PASS
2399.175000	-26.6	6.2	-20.4	PASS
2399.125000	-26.9	6.5	-20.4	PASS
2399.625000	-27.5	7.1	-20.4	PASS
2398.225000	-27.6	7.2	-20.4	PASS
2398.275000	-27.7	7.2	-20.4	PASS
2399.375000	-28.4	8.0	-20.4	PASS
2398.975000	-28.6	8.1	-20.4	PASS

Band Edge

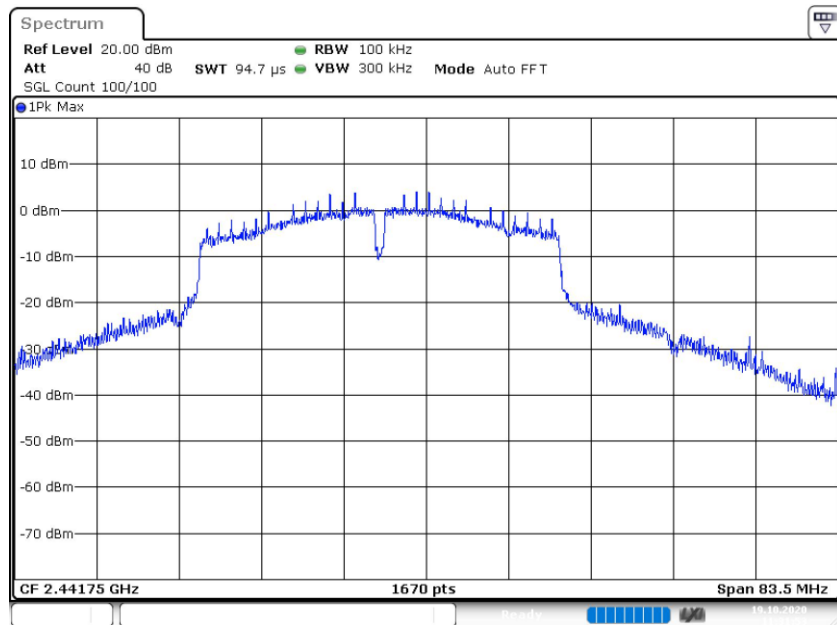


Band Edge Connector 1_0



Date: 19.OCT.2020 11:30:52

Band Edge Connector 1_1



Date: 19.OCT.2020 11:31:54

Band Edge high (2437 MHz; 24.000 dBm; 40 MHz)

Result

DUT Frequency (MHz)	Result
2437.000000	PASS

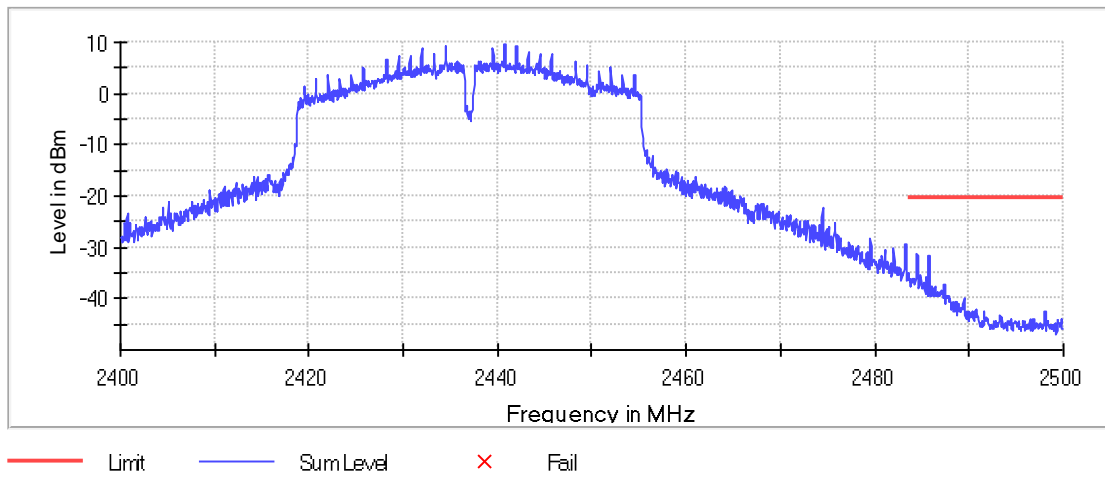
Inband Peak

Frequency (MHz)	Level (dBm)
2440.725000	9.6

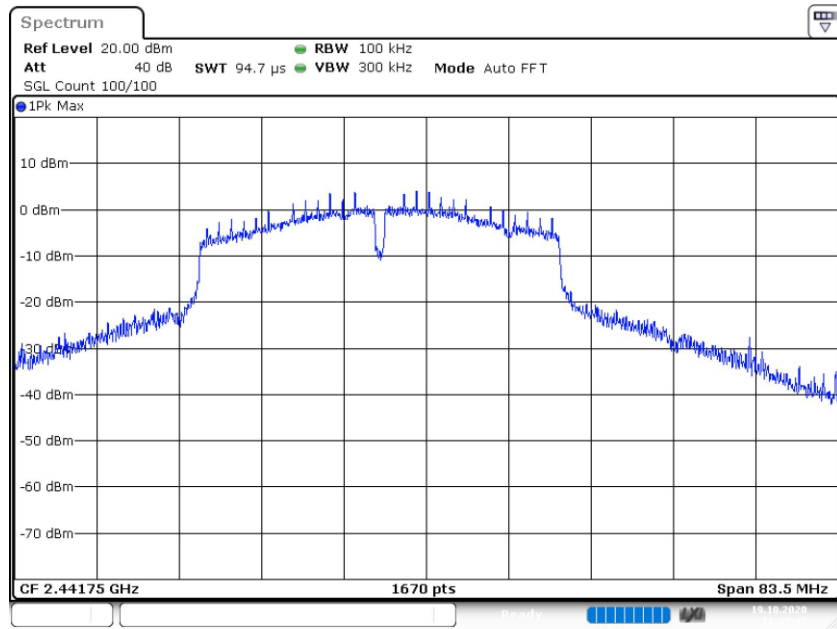
Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
2484.475000	-31.4	11.0	-20.4	PASS
2484.525000	-31.5	11.0	-20.4	PASS
2485.725000	-31.7	11.2	-20.4	PASS
2485.775000	-31.7	11.3	-20.4	PASS
2484.575000	-32.6	12.2	-20.4	PASS
2484.425000	-33.1	12.6	-20.4	PASS
2485.675000	-34.0	13.5	-20.4	PASS
2485.825000	-34.6	14.2	-20.4	PASS
2483.525000	-34.9	14.5	-20.4	PASS
2483.575000	-35.2	14.8	-20.4	PASS
2484.875000	-35.5	15.1	-20.4	PASS
2484.825000	-35.6	15.1	-20.4	PASS
2485.475000	-35.6	15.2	-20.4	PASS
2485.425000	-35.6	15.2	-20.4	PASS
2484.125000	-36.0	15.5	-20.4	PASS

Band Edge

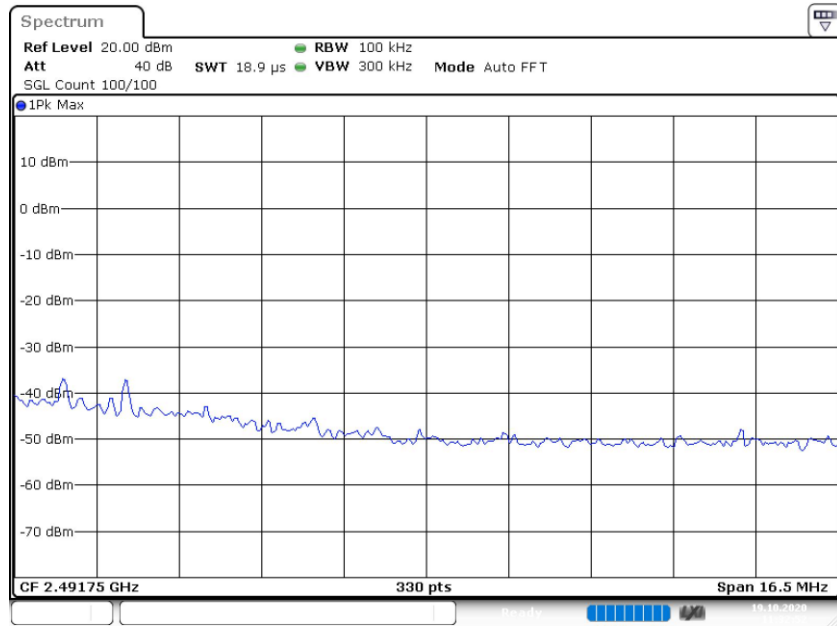


Band Edge Connector 1_0



Date: 19.OCT.2020 11:32:46

Band Edge Connector 1_1



Date: 19.OCT.2020 11:32:52

Tx Spurious Emission (2437 MHz; 24.000 dBm; 40 MHz)

Result

DUT Frequency (MHz)	Result
2437.000000	PASS

Final measurements

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

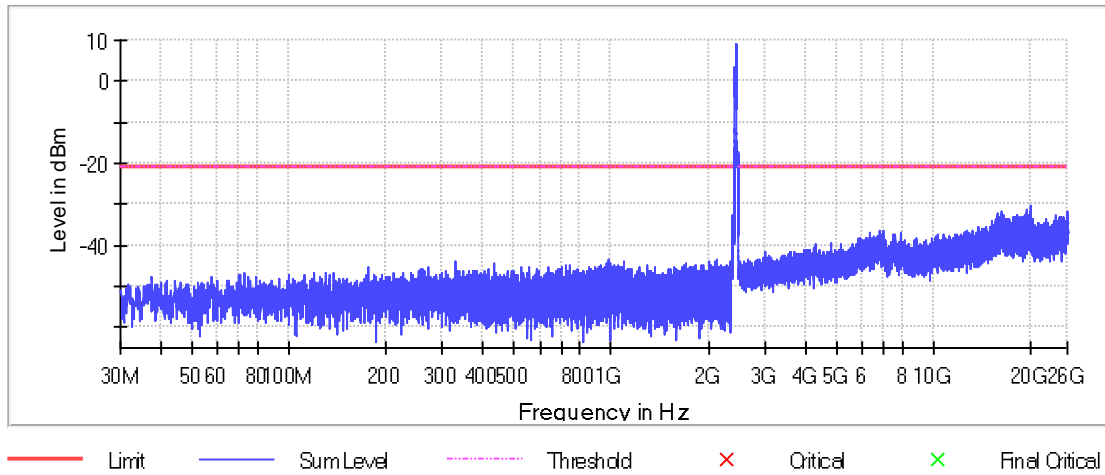
Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
2399.475000	-22.9	2.0	-20.9
2399.525000	-22.9	2.0	-20.9
2399.575000	-24.7	3.8	-20.9
2399.425000	-25.0	4.1	-20.9
2399.225000	-26.3	5.4	-20.9
2399.175000	-26.6	5.7	-20.9
2399.275000	-27.1	6.2	-20.9
2398.875000	-28.0	7.1	-20.9
2398.925000	-28.1	7.2	-20.9
2399.125000	-28.2	7.3	-20.9
2398.225000	-28.2	7.3	-20.9
2398.275000	-28.3	7.4	-20.9
2399.625000	-29.1	8.2	-20.9
2397.875000	-29.4	8.5	-20.9
2398.825000	-29.5	8.6	-20.9

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



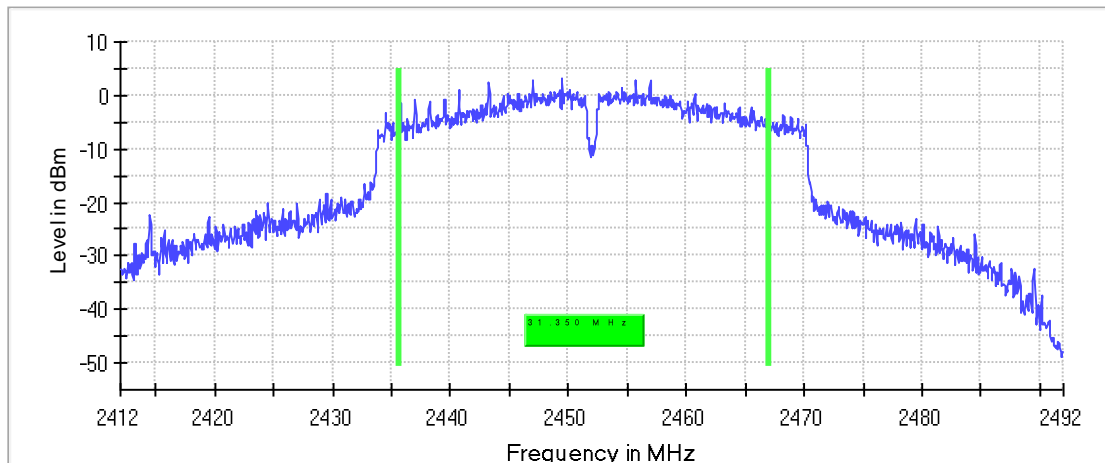
Minimum Emission Bandwidth 6 dB (2452 MHz; 24.000 dBm; 40 MHz)

6 dB Bandwidth

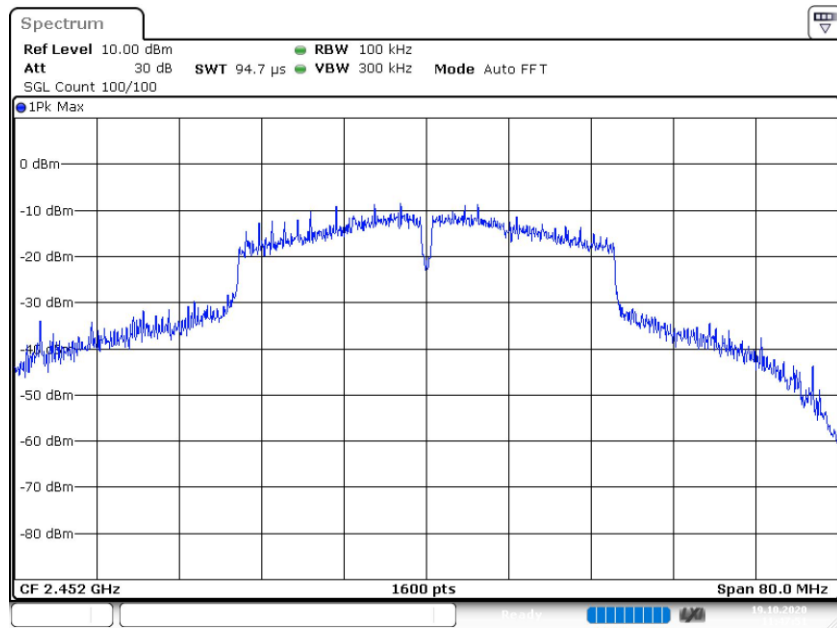
DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2452.000000	31.350000	0.500000	---	2435.675000	2467.025000

DUT Frequency (MHz)	Max Level (dBm)	Result
2452.000000	3.1	PASS

6 dB Bandwidth



Bandwidth



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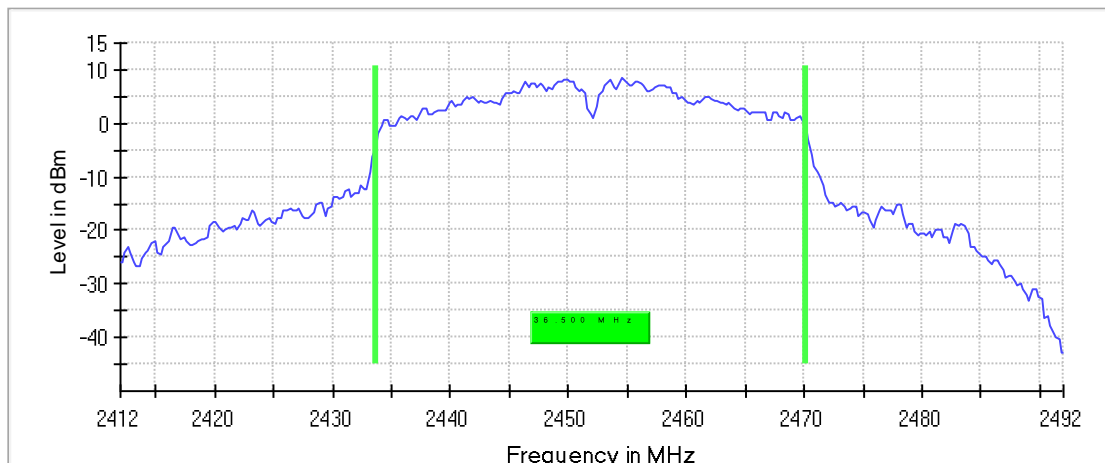
Occupied Channel Bandwidth 99% (2452 MHz; 24.000 dBm; 40 MHz)

99 % Bandwidth

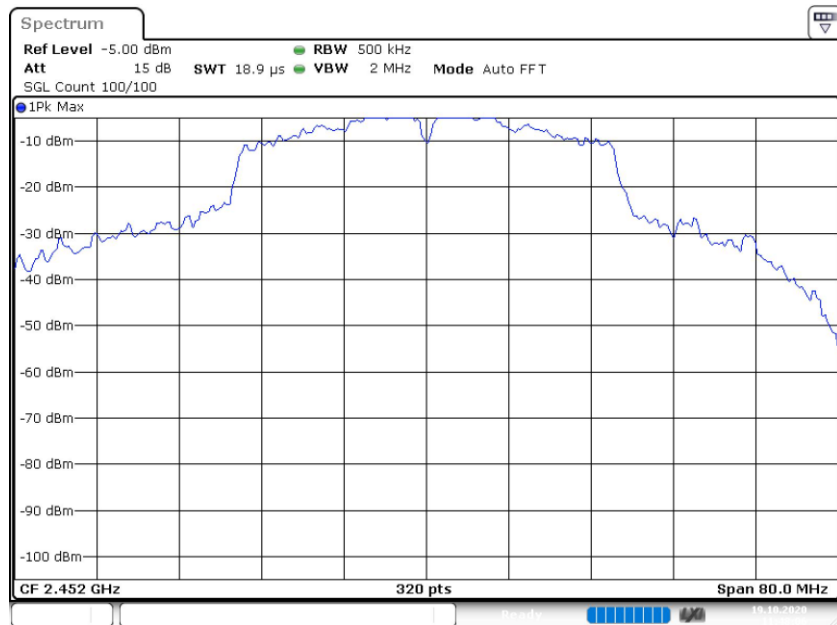
DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2452.000000	36.500000	---	---	2433.625000	2470.125000

DUT Frequency (MHz)	Result
2452.000000	PASS

99 %Bandwidth



Bandwidth



Date: 19.OCT.2020 11:48:06

Band Edge high (2452 MHz; 24.000 dBm; 40 MHz)

Result

DUT Frequency (MHz)	Result
2452.000000	PASS

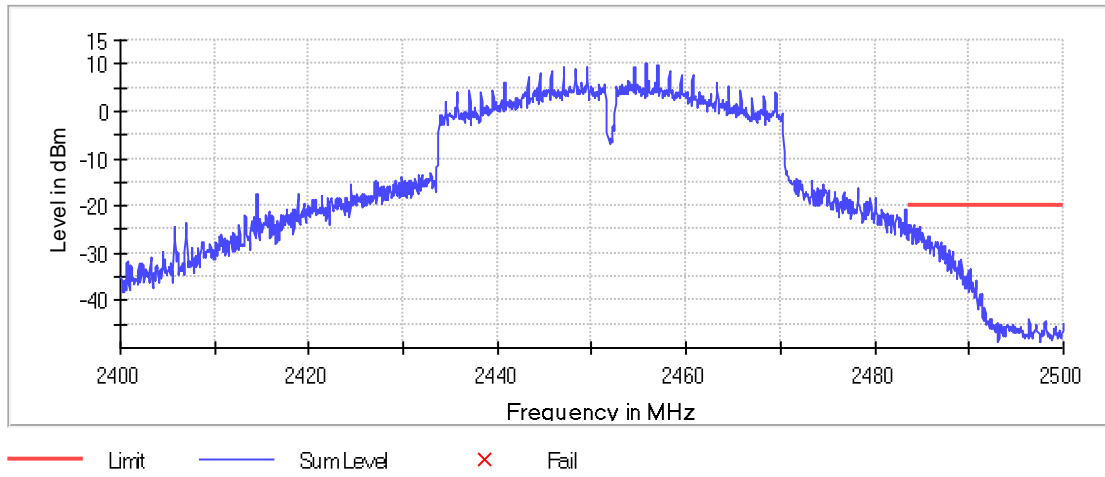
Inband Peak

Frequency (MHz)	Level (dBm)
2455.725000	10.2

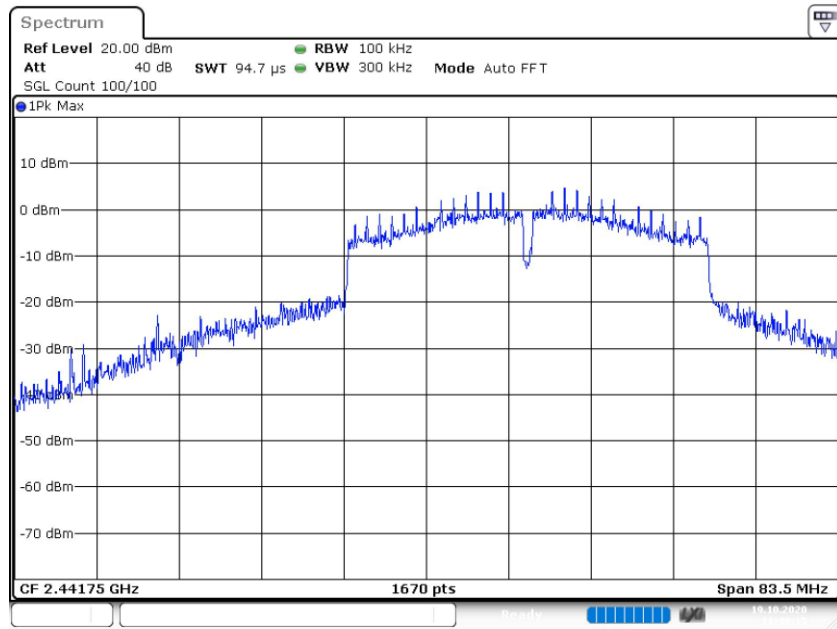
Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
2483.875000	-23.8	4.0	-19.8	PASS
2483.625000	-23.9	4.1	-19.8	PASS
2484.175000	-24.1	4.3	-19.8	PASS
2484.125000	-24.2	4.3	-19.8	PASS
2483.825000	-24.3	4.5	-19.8	PASS
2483.575000	-24.3	4.5	-19.8	PASS
2484.775000	-24.6	4.7	-19.8	PASS
2484.725000	-24.7	4.9	-19.8	PASS
2484.425000	-24.7	4.9	-19.8	PASS
2484.475000	-24.7	4.9	-19.8	PASS
2484.225000	-24.8	5.0	-19.8	PASS
2484.525000	-24.8	5.0	-19.8	PASS
2483.925000	-25.3	5.5	-19.8	PASS
2484.375000	-25.4	5.5	-19.8	PASS
2483.725000	-25.4	5.6	-19.8	PASS

Band Edge

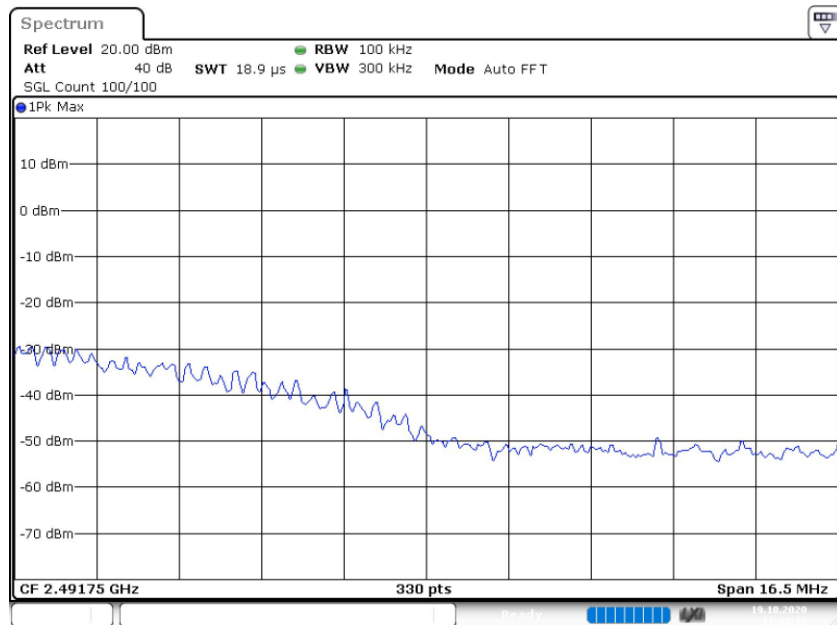


Band Edge Connector 1_0



Date: 19.OCT.2020 11:48:16

Band Edge Connector 1_1



Date: 19.OCT.2020 11:48:20

Tx Spurious Emission (2452 MHz; 24.000 dBm; 40 MHz)

Result

DUT Frequency (MHz)	Result
2452.000000	PASS

Final measurements

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

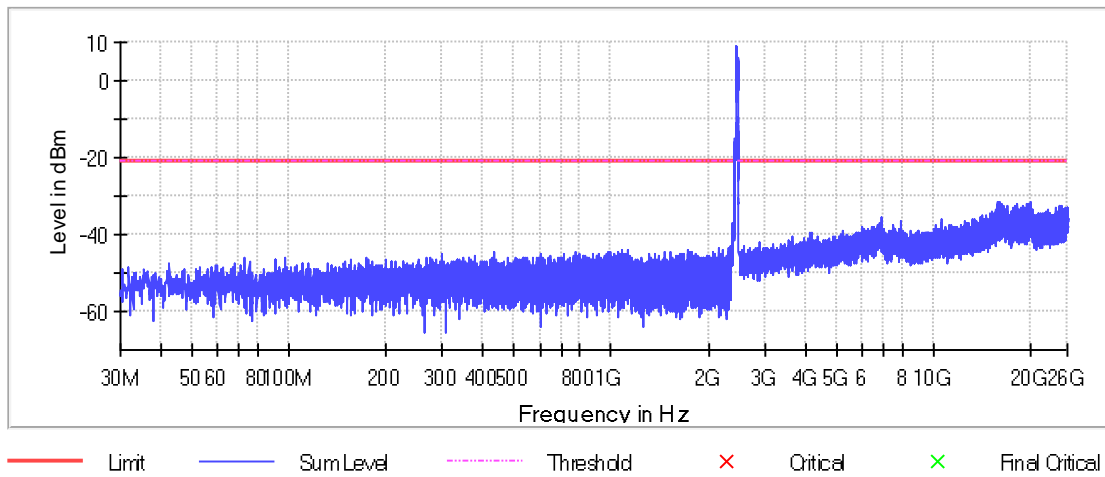
Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
2483.867434	-27.9	7.0	-20.9
2484.602301	-28.2	7.3	-20.9
2399.475000	-29.7	8.8	-20.9
2399.525000	-29.9	9.0	-20.9
2486.072037	-30.6	9.7	-20.9
2395.775000	-31.0	10.1	-20.9
2399.425000	-31.0	10.1	-20.9
2395.725000	-31.0	10.1	-20.9
15854.049647	-31.3	10.4	-20.9
2487.541772	-31.4	10.6	-20.9
19928.155956	-31.5	10.6	-20.9
16098.025710	-31.7	10.8	-20.9
16153.140785	-31.8	10.9	-20.9
2399.575000	-31.8	10.9	-20.9
19527.653081	-31.9	11.0	-20.9

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 Annex --