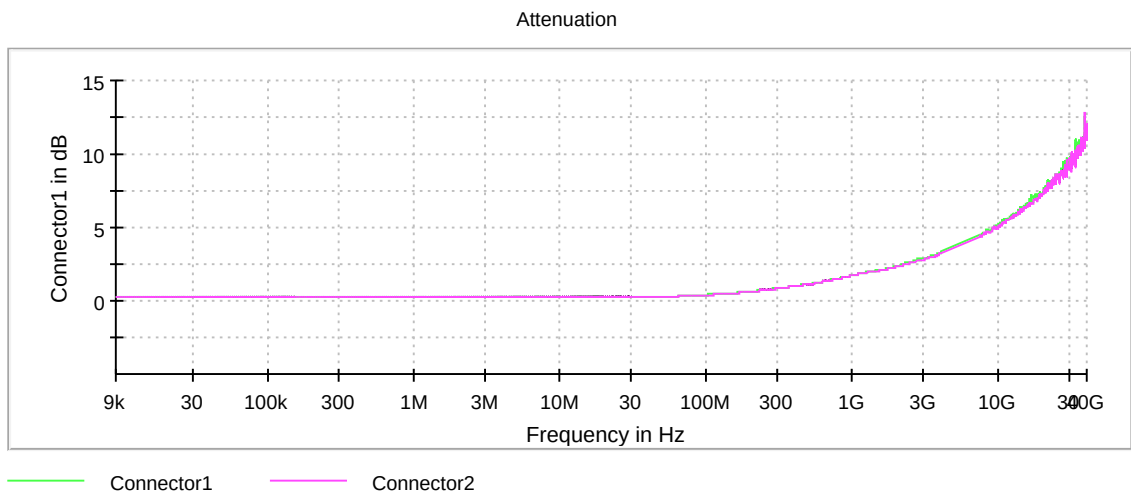
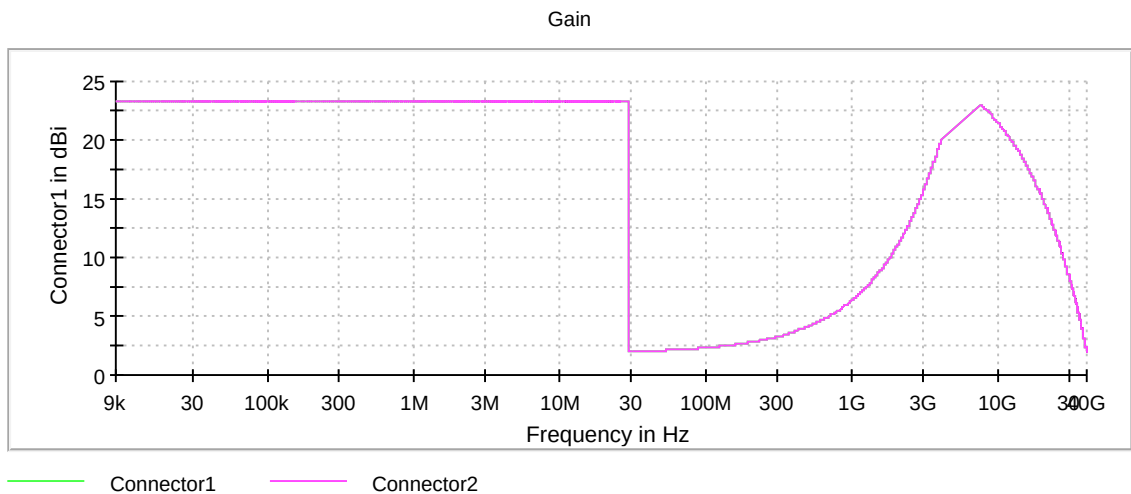
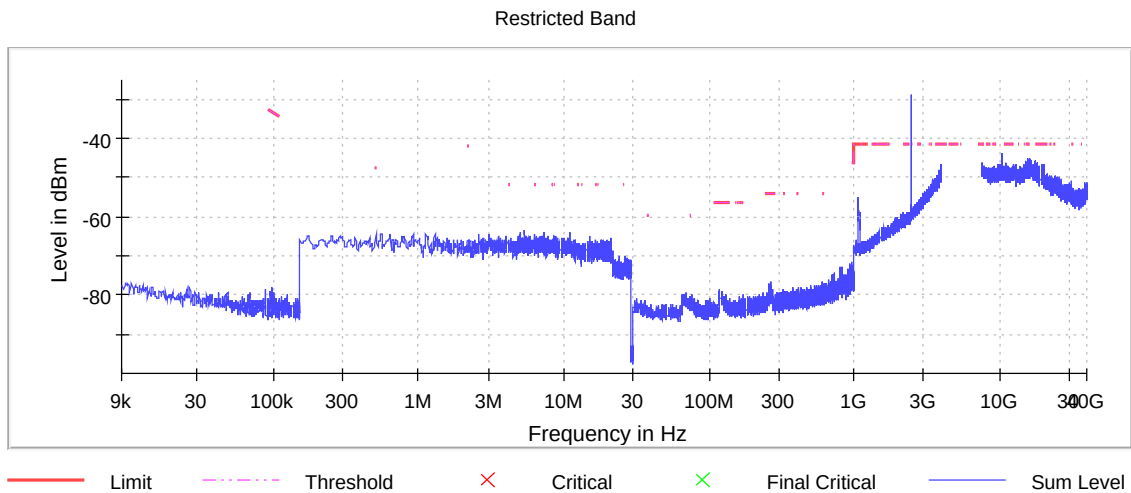




Pre Measurement 1

Setting	Instrument Value	Target Value
RBW	300.000 Hz	<= 300.000 Hz
VBW	1.000 kHz	>= 900.000 Hz
SweepPoints	540	~ 540
SweepTime	6.322 ms	AUTO
Reference Level	-5.000 dBm	AUTO
Attenuation	5.000 dB	5.000 dB
Detector	RMS	RMS
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamplifier	off	off

Pre Measurement 2

Setting	Instrument Value	Target Value
RBW	300.000 Hz	<= 300.000 Hz
VBW	1.000 kHz	>= 900.000 Hz
SweepPoints	133	~ 133
SweepTime	6.312 ms	AUTO
Reference Level	-5.000 dBm	AUTO
Attenuation	5.000 dB	5.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	30	30
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamplifier	off	off

Emissions in restricted frequency bands (Peak) (5270 MHz; 40 MHz)

Customized settings.

Test according to FCC title 47 part 15 §15.407(b), KDB 789033 D02 General U-NII Test Procedures
New Rules v02r01 II.G.1 and ANSI C63.10-2013

Result

DUT Frequency (MHz)	Result
5270.000000	PASS

Final measurements

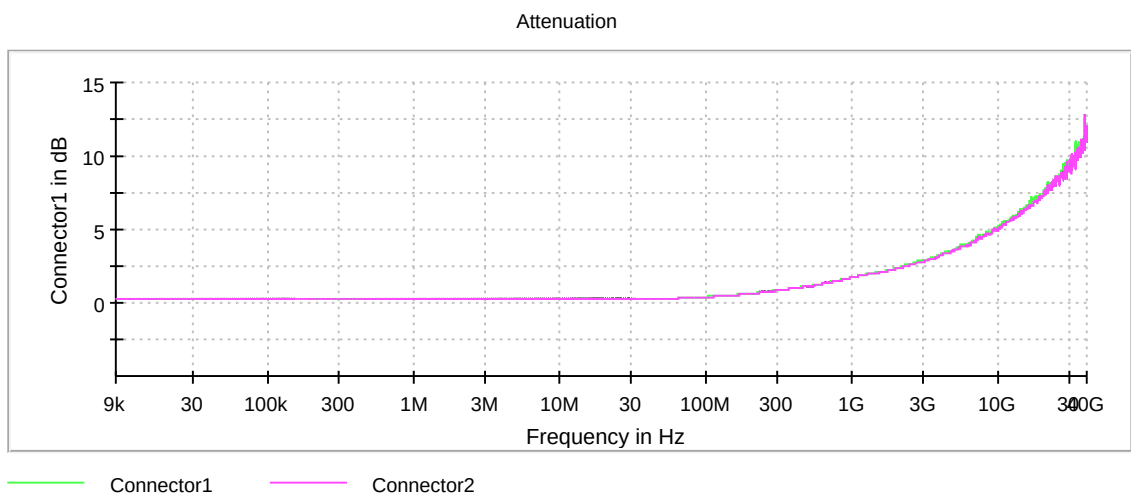
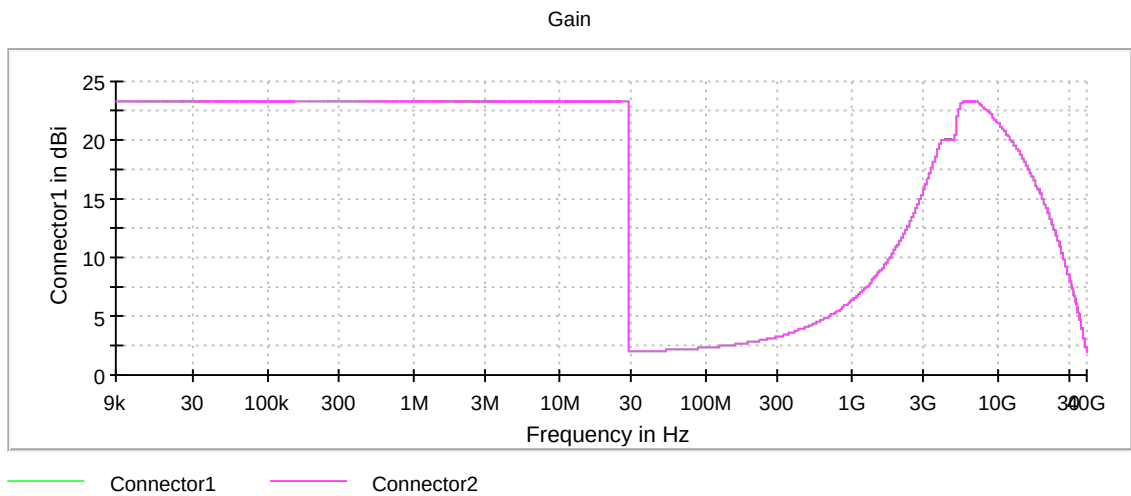
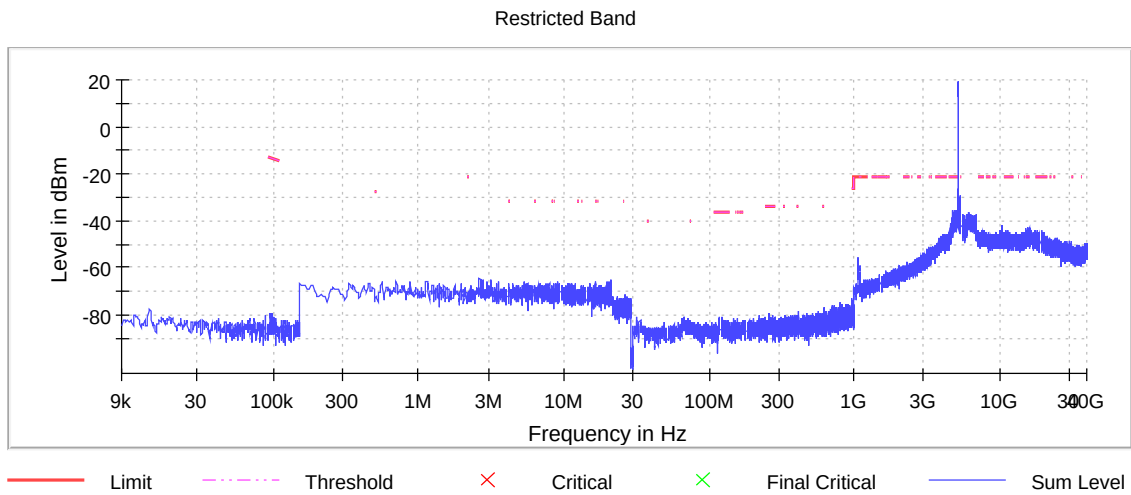
Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result
---	---	---	---	---	---

Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
4799.750000	-35.2	14.0	-21.2
4800.250000	-35.3	14.1	-21.2
4938.750000	-35.6	14.4	-21.2
5095.250000	-35.7	14.5	-21.2
5123.250000	-35.7	14.5	-21.2
5420.750000	-35.8	14.6	-21.2
5421.250000	-36.0	14.8	-21.2
5120.250000	-36.0	14.8	-21.2
4839.250000	-36.1	14.9	-21.2
4926.250000	-36.3	15.1	-21.2
5420.250000	-36.5	15.3	-21.2
4926.750000	-36.5	15.3	-21.2
5111.250000	-36.6	15.4	-21.2
5100.250000	-36.6	15.4	-21.2
5111.750000	-36.7	15.5	-21.2

Measurement Settings

Start Frequency (MHz)	Stop Frequency (MHz)	Pre Measurement	Final Measurement
0.009000	0.150000	1	1
0.150000	30.000000	1	1
30.000000	1000.000000	1	1
1000.000000	5150.000000	1	2
5150.000000	5350.000000	1	2
5350.000000	5470.000000	1	2
5470.000000	5850.000000	1	2
5850.000000	18000.000000	1	2
18000.000000	26000.000000	1	2
26000.000000	40000.000000	1	2



Pre Measurement 1

Setting	Instrument Value	Target Value
RBW	300.000 Hz	<= 300.000 Hz
VBW	1.000 kHz	>= 900.000 Hz
SweepPoints	940	~ 940
SweepTime	6.322 ms	AUTO
Reference Level	-5.000 dBm	AUTO
Attenuation	5.000 dB	5.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	3	3
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off

Emission Bandwidth 26 dB (5300 MHz; 40 MHz)

Customized settings.

Test according to FCC title 47 part 15 §15.407(a),(e), KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 D and ANSI C63.10-2013

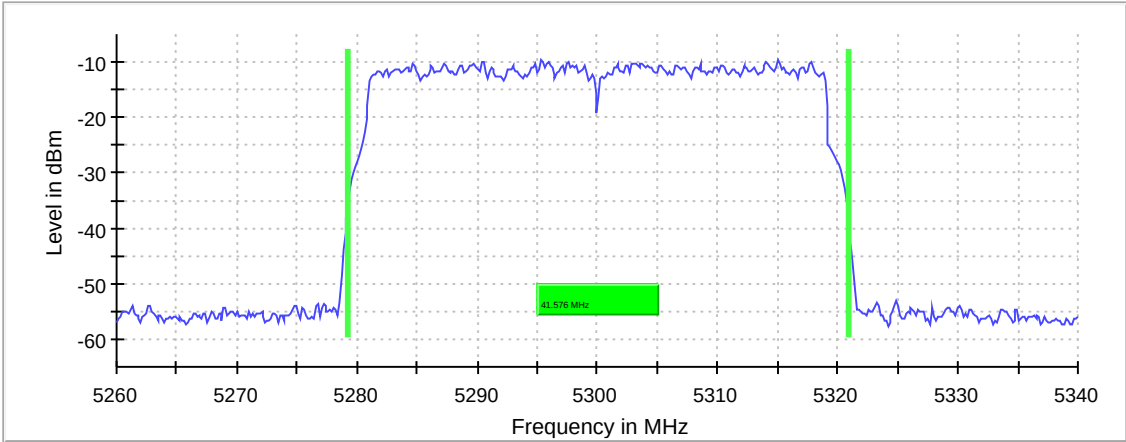
26 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5300.000000	41.575985	---	---	5279.287054	5320.863039

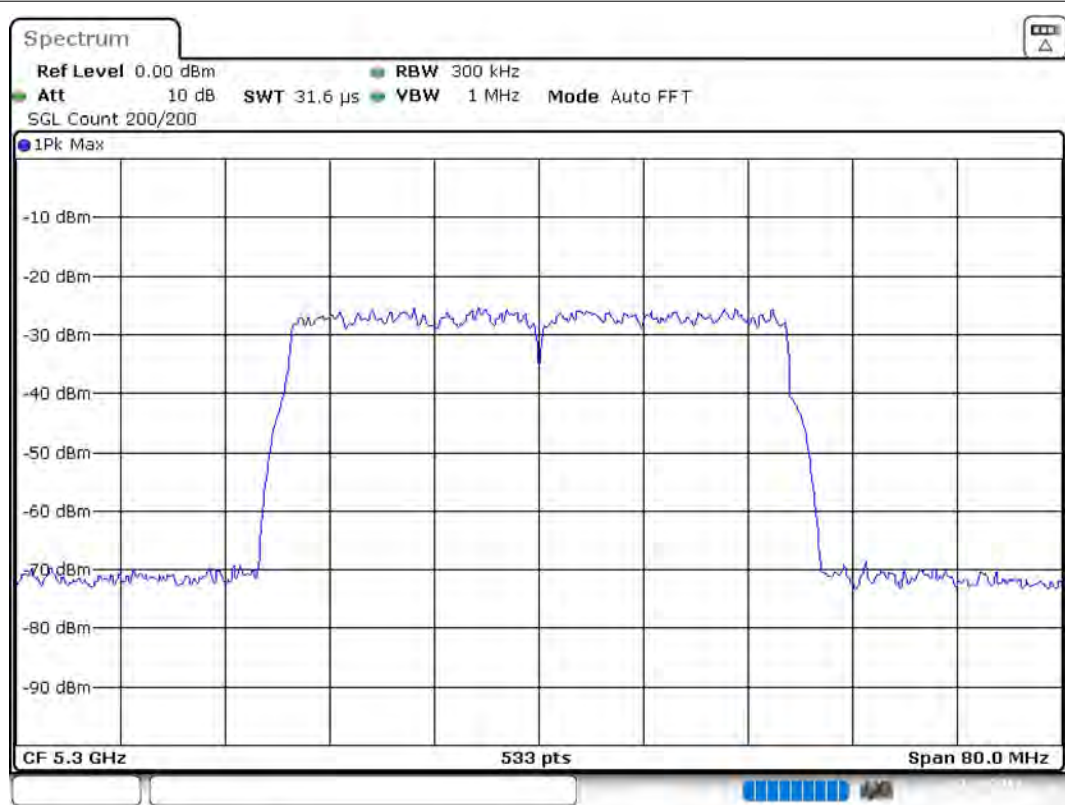
(continuation of the "26 dB Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
5300.000000	-9.5	PASS

26 dB Bandwidth



Bandwidth



Date: 2.AUG.2019 17:43:56

Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.26000 GHz	5.26000 GHz
Stop Frequency	5.34000 GHz	5.34000 GHz
Span	80.000 MHz	80.000 MHz
RBW	300.000 kHz	~ 400.000 kHz
VBW	1.000 MHz	>= 900.000 kHz
SweepPoints	533	~ 533
Sweeptime	31.621 μ s	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	10.000 dB	0.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off

RF output power (5300 MHz; 40 MHz)

Customized settings.

Test according to FCC title 47 part 15 §15.407(a), KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 II.E and ANSI C63.10-2013

Result

DUT Frequency (MHz)	Gated RMS (dBm)	Limit Max (dBm)	Gated EIRP (dBm)	DutyCycle (%)	Result
5300.000000	29.6	---	29.6	99.486	PASS

Power Spectral Density (5300 MHz; 40 MHz)

Customized settings.

Test according to FCC title 47 part 15 §15.407(a), KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 II.F and ANSI C63.10-2013

Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
5300.000000	5307.128713	-8.603	-5.4	PASS

Ports

Port	Duty Cycle (%)
1	0.000
2	0.000

Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.28000 GHz	5.28000 GHz
Stop Frequency	5.32000 GHz	5.32000 GHz
Span	40.000 MHz	40.000 MHz
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	101	~ 80
SweepTime	2.020 ms	2.020 ms
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	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off

Occupied Channel Bandwidth 99% (5300 MHz; 40 MHz)

Customized settings.

Test according to FCC title 47 part 15 §15.407(a),(e), KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 D and ANSI C63.10-2013

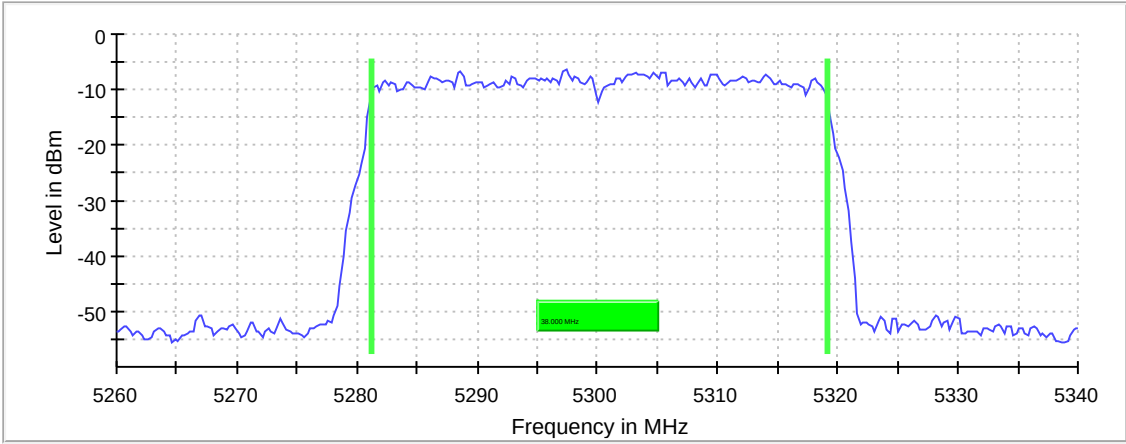
99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5300.000000	38.000000	---	---	5281.125000	5319.125000

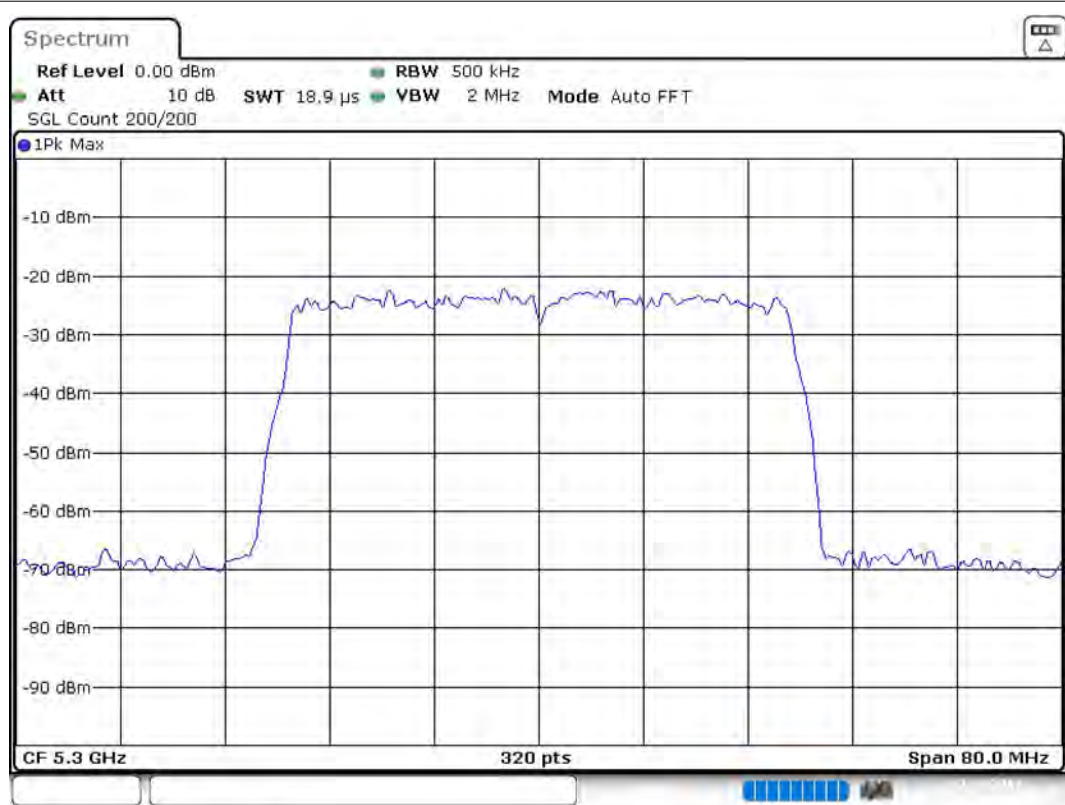
(continuation of the "99 % Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Result
5300.000000	PASS

99 % Bandwidth



Bandwidth



Date: 2.AUG.2019 17:44:46

Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.26000 GHz	5.26000 GHz
Stop Frequency	5.34000 GHz	5.34000 GHz
Span	80.000 MHz	80.000 MHz
RBW	500.000 kHz	≥ 400.000 kHz
VBW	2.000 MHz	≥ 1.500 MHz
SweepPoints	320	~ 320
Sweeptime	18.906 μ s	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	10.000 dB	0.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	AUTO
Preamp	off	off

Emissions in restricted frequency bands (Average) (5300 MHz; 40 MHz)

Customized settings.

Test according to FCC title 47 part 15 §15.407(b), KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 II.G.1 and ANSI C63.10-2013

Result

DUT Frequency (MHz)	Result
5300.000000	PASS

Final measurements

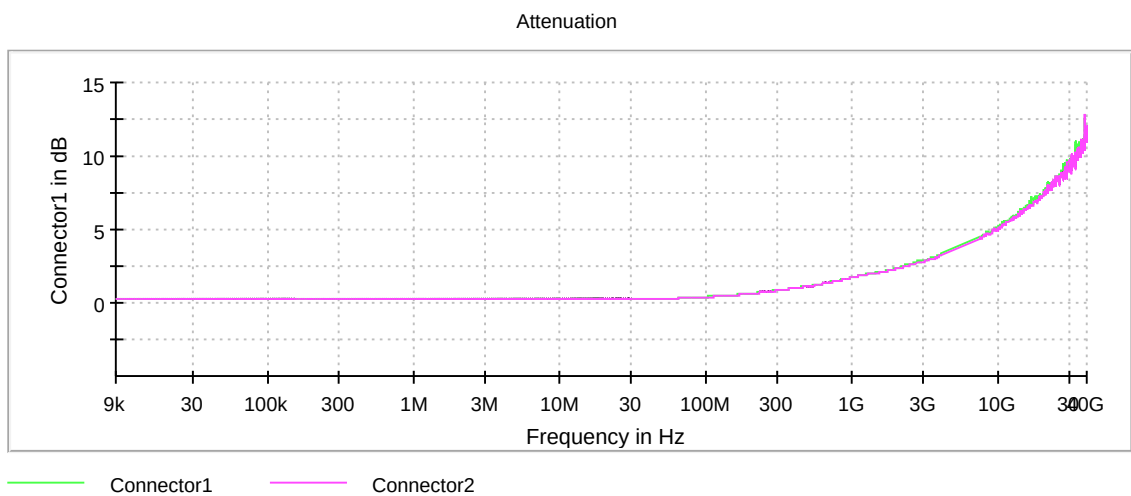
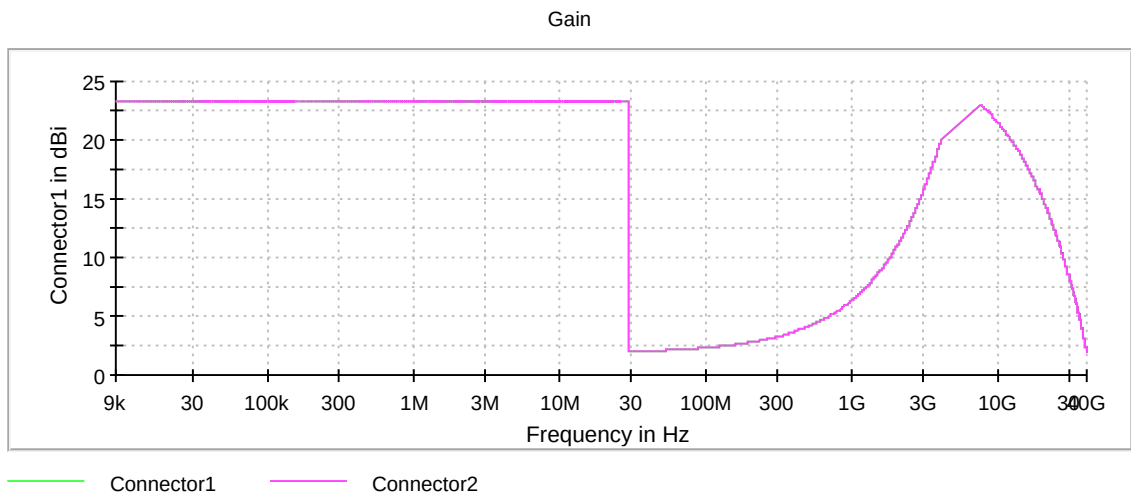
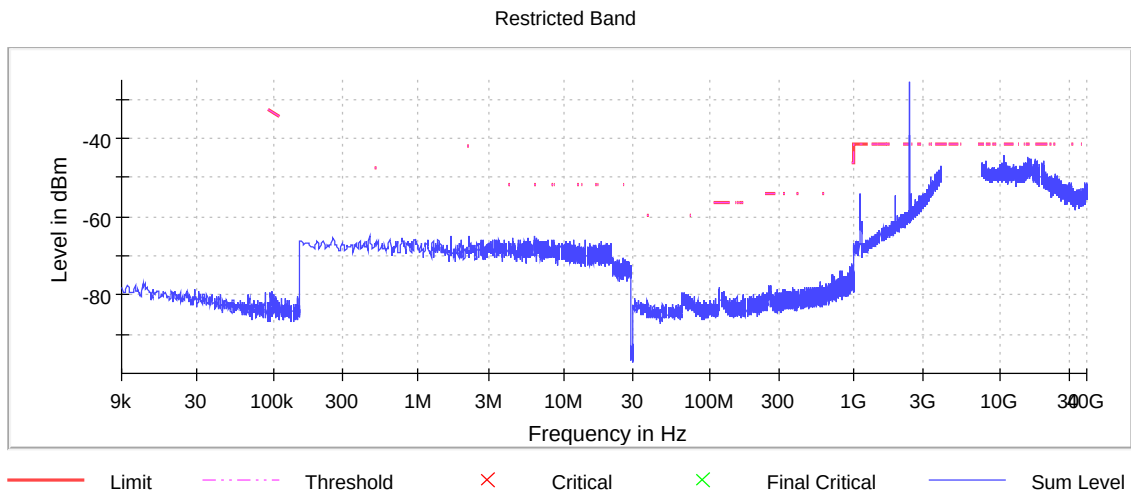
Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result
---	---	---	---	---	---

Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
15801.750000	-44.8	3.6	-41.2
10602.250000	-45.0	3.8	-41.2
15873.750000	-45.0	3.8	-41.2
16146.250000	-45.1	3.9	-41.2
15908.250000	-45.1	3.9	-41.2
17899.250000	-45.2	4.0	-41.2
15790.250000	-45.2	4.0	-41.2
16166.750000	-45.3	4.1	-41.2
15912.250000	-45.3	4.1	-41.2
15881.750000	-45.4	4.2	-41.2
15771.250000	-45.4	4.2	-41.2
17905.750000	-45.4	4.2	-41.2
15848.750000	-45.4	4.2	-41.2
10601.750000	-45.5	4.3	-41.2
16187.750000	-45.5	4.3	-41.2

Measurement Settings

Start Frequency (MHz)	Stop Frequency (MHz)	Pre Measurement	Final Measurement
0.009000	0.090000	1	1
0.090000	0.110000	2	2
0.110000	0.150000	1	1
0.150000	0.490000	1	1
0.490000	30.000000	2	2
30.000000	1000.000000	2	2
1000.000000	4000.000000	1	1
7500.000000	18000.000000	1	1
18000.000000	26000.000000	1	1
26000.000000	40000.000000	1	1



Pre Measurement 1

Setting	Instrument Value	Target Value
RBW	300.000 Hz	<= 300.000 Hz
VBW	1.000 kHz	>= 900.000 Hz
SweepPoints	540	~ 540
SweepTime	6.322 ms	AUTO
Reference Level	-5.000 dBm	AUTO
Attenuation	5.000 dB	5.000 dB
Detector	RMS	RMS
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off

Pre Measurement 2

Setting	Instrument Value	Target Value
RBW	300.000 Hz	<= 300.000 Hz
VBW	1.000 kHz	>= 900.000 Hz
SweepPoints	133	~ 133
SweepTime	6.312 ms	AUTO
Reference Level	-5.000 dBm	AUTO
Attenuation	5.000 dB	5.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	30	30
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off

Emissions in restricted frequency bands (Peak) (5300 MHz; 40 MHz)

Customized settings.

Test according to FCC title 47 part 15 §15.407(b), KDB 789033 D02 General U-NII Test Procedures
New Rules v02r01 II.G.1 and ANSI C63.10-2013

Result

DUT Frequency (MHz)	Result
5300.000000	PASS

Final measurements

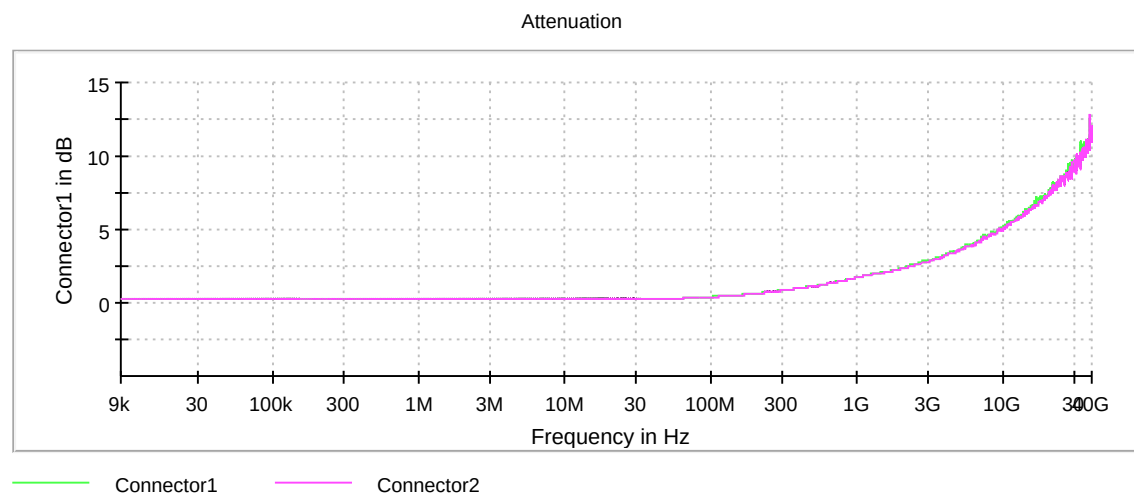
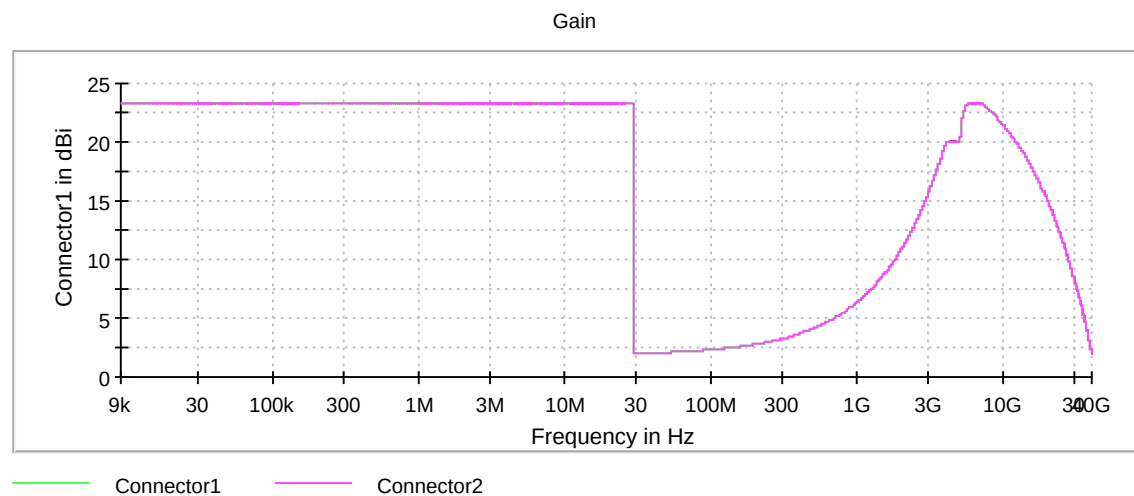
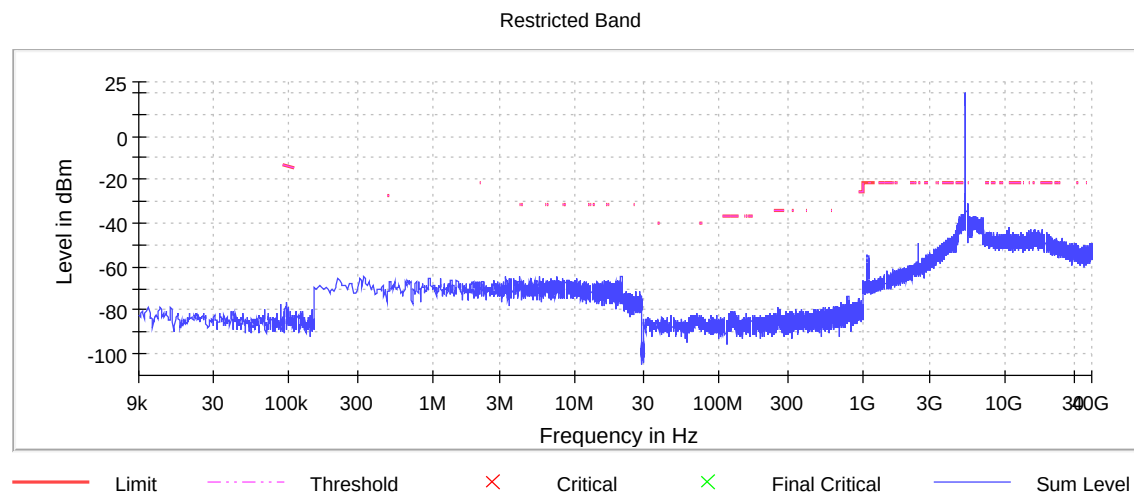
Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result
---	---	---	---	---	---

Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
5362.750000	-30.4	9.2	-21.2
5362.250000	-30.5	9.3	-21.2
5355.750000	-31.4	10.2	-21.2
5355.250000	-31.9	10.7	-21.2
5361.750000	-32.1	10.9	-21.2
5356.250000	-32.4	11.2	-21.2
5357.250000	-32.5	11.3	-21.2
5356.750000	-32.5	11.3	-21.2
5363.250000	-33.1	11.9	-21.2
5354.750000	-33.2	12.0	-21.2
5360.250000	-33.7	12.5	-21.2
5359.250000	-33.8	12.6	-21.2
5354.250000	-33.8	12.6	-21.2
5359.750000	-33.9	12.7	-21.2
5350.250000	-34.7	13.5	-21.2

Measurement Settings

Start Frequency (MHz)	Stop Frequency (MHz)	Pre Measurement	Final Measurement
0.009000	0.150000	1	1
0.150000	30.000000	1	1
30.000000	1000.000000	1	1
1000.000000	5150.000000	1	2
5150.000000	5350.000000	1	2
5350.000000	5470.000000	1	2
5470.000000	5850.000000	1	2
5850.000000	18000.000000	1	2
18000.000000	26000.000000	1	2
26000.000000	40000.000000	1	2



Pre Measurement 1

Setting	Instrument Value	Target Value
RBW	300.000 Hz	<= 300.000 Hz
VBW	1.000 kHz	>= 900.000 Hz
SweepPoints	940	~ 940
SweepTime	6.322 ms	AUTO
Reference Level	-5.000 dBm	AUTO
Attenuation	5.000 dB	5.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	3	3
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off

Emission Bandwidth 26 dB (5325 MHz; 40 MHz)

Customized settings.

Test according to FCC title 47 part 15 §15.407(a),(e), KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 D and ANSI C63.10-2013

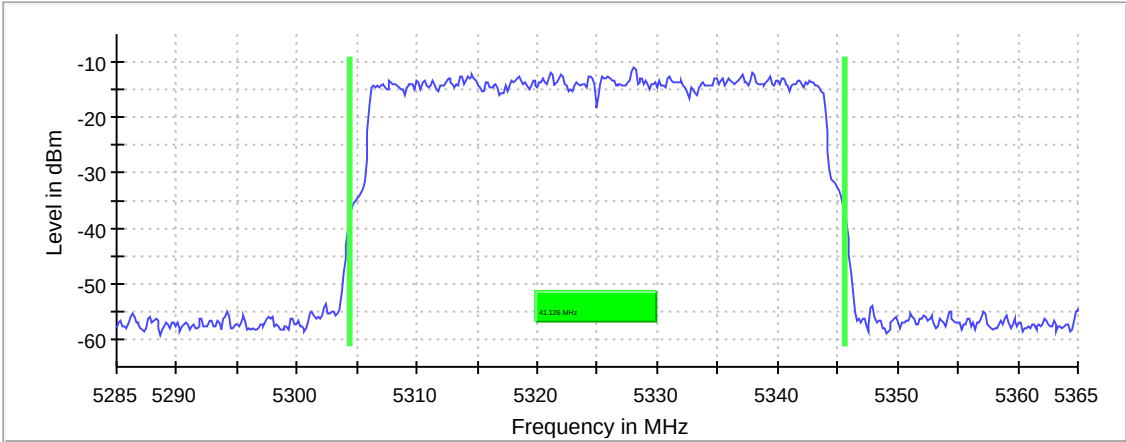
26 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5325.000000	41.125704	---	---	5304.437148	5345.562852

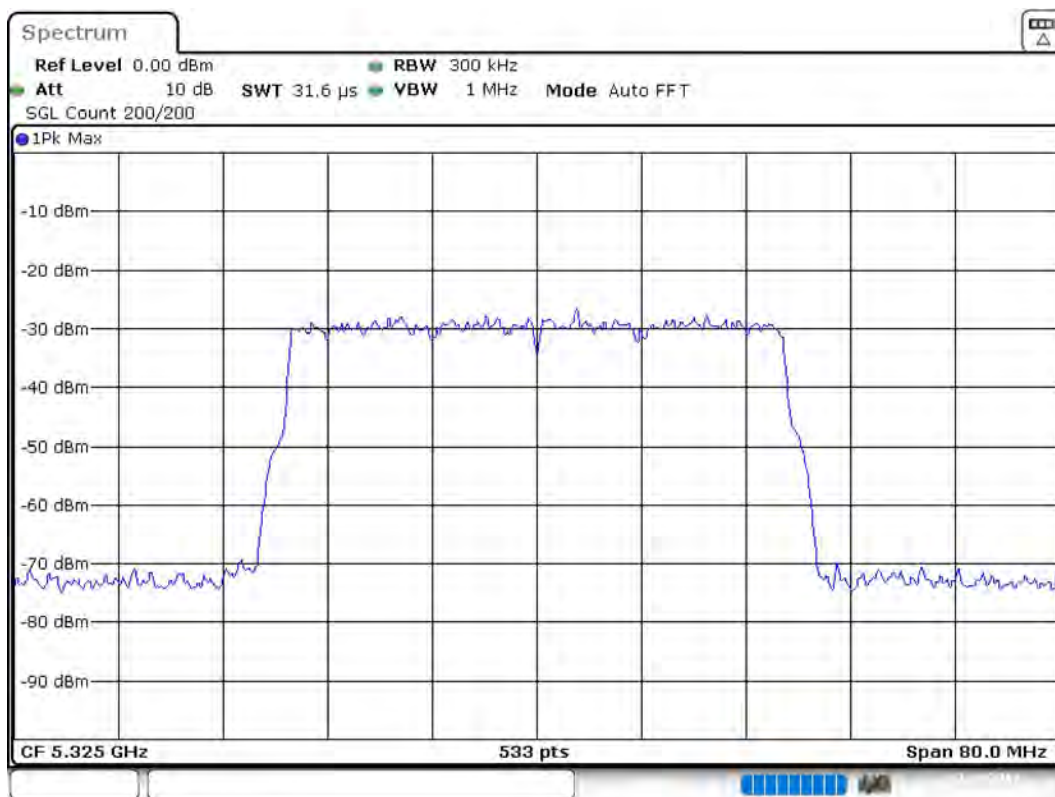
(continuation of the "26 dB Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
5325.000000	-10.9	PASS

26 dB Bandwidth



Bandwidth



Date: 2.AUG.2019 19:16:59

Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.28500 GHz	5.28500 GHz
Stop Frequency	5.36500 GHz	5.36500 GHz
Span	80.000 MHz	80.000 MHz
RBW	300.000 kHz	~ 400.000 kHz
VBW	1.000 MHz	>= 900.000 kHz
SweepPoints	533	~ 533
Sweeptime	31.621 μ s	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	10.000 dB	0.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off

RF output power (5325 MHz; 40 MHz)

Customized settings.

Test according to FCC title 47 part 15 §15.407(a), KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 II.E and ANSI C63.10-2013

Result

DUT Frequency (MHz)	Gated RMS (dBm)	Limit Max (dBm)	Gated EIRP (dBm)	DutyCycle (%)	Result
5325.000000	28.5	---	28.5	99.490	PASS

Power Spectral Density (5325 MHz; 40 MHz)

Customized settings.

Test according to FCC title 47 part 15 §15.407(a), KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 II.F and ANSI C63.10-2013

Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
5325.000000	5322.623762	-10.019	-5.5	PASS

Ports

Port	Duty Cycle (%)
1	0.000
2	0.000

Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.30500 GHz	5.30500 GHz
Stop Frequency	5.34500 GHz	5.34500 GHz
Span	40.000 MHz	40.000 MHz
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	101	~ 80
SweepTime	2.020 ms	2.020 ms
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	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off

Occupied Channel Bandwidth 99% (5325 MHz; 40 MHz)

Customized settings.

Test according to FCC title 47 part 15 §15.407(a),(e), KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 D and ANSI C63.10-2013

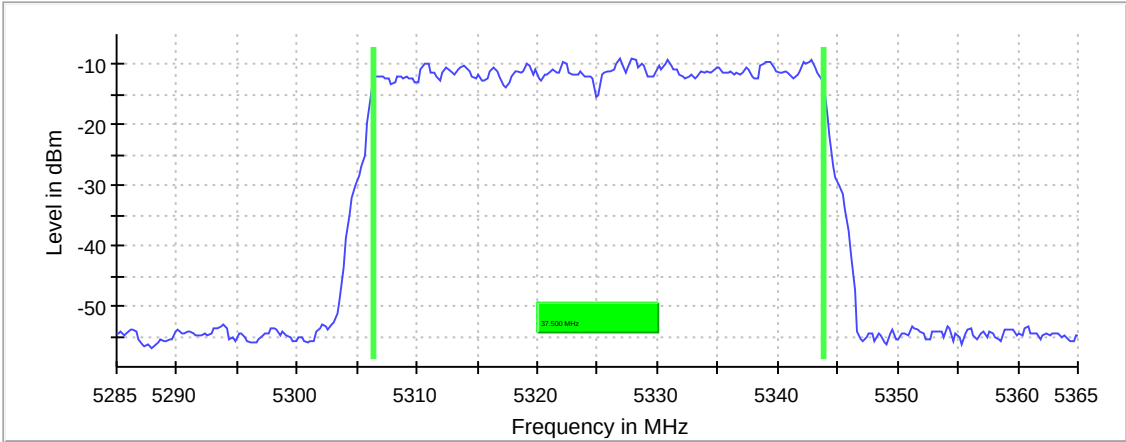
99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5325.000000	37.500000	---	---	5306.375000	5343.875000

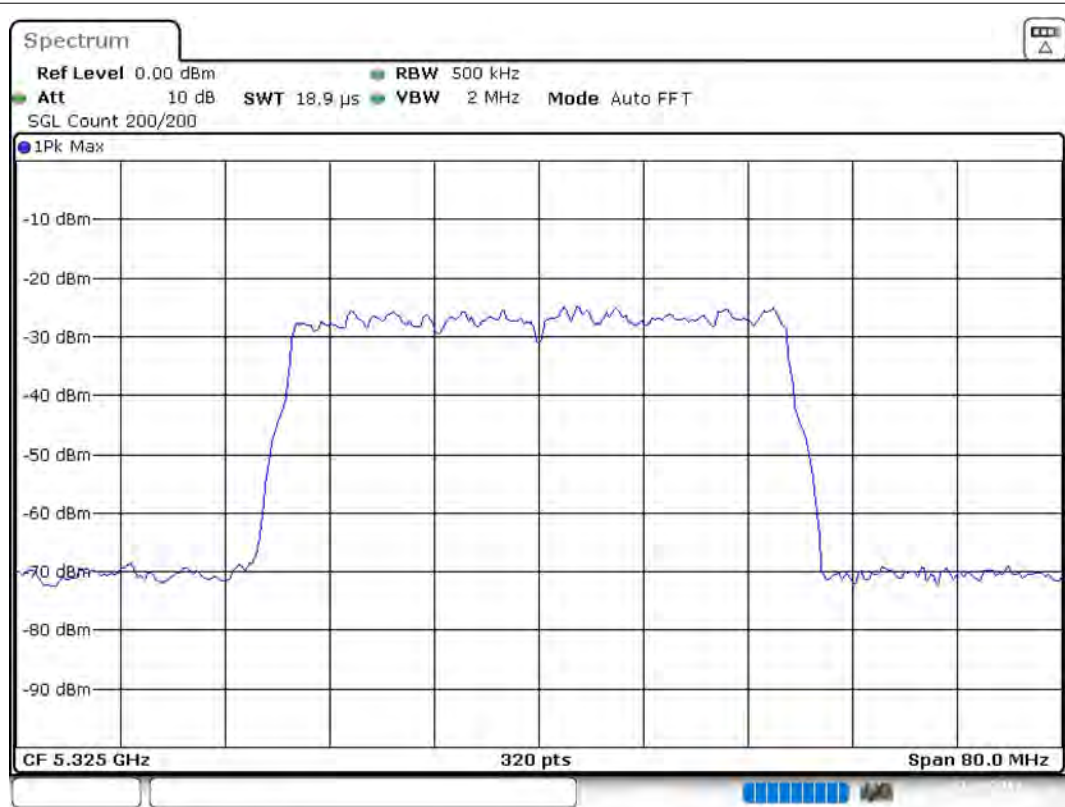
(continuation of the "99 % Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Result
5325.000000	PASS

99 % Bandwidth



Bandwidth



Date: 2.AUG.2019 19:17:46

Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.28500 GHz	5.28500 GHz
Stop Frequency	5.36500 GHz	5.36500 GHz
Span	80.000 MHz	80.000 MHz
RBW	500.000 kHz	≥ 400.000 kHz
VBW	2.000 MHz	≥ 1.500 MHz
SweepPoints	320	~ 320
Sweeptime	18.906 μ s	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	10.000 dB	0.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off

Tx Spurious Emission (5325 MHz; 40 MHz)

Customized settings.

Test according to FCC title 47 part 15 §15.407(b), KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 II.G.4&5 and ANSI C63.10-2013

Result

DUT Frequency (MHz)	Result
5325.000000	PASS

Final measurements

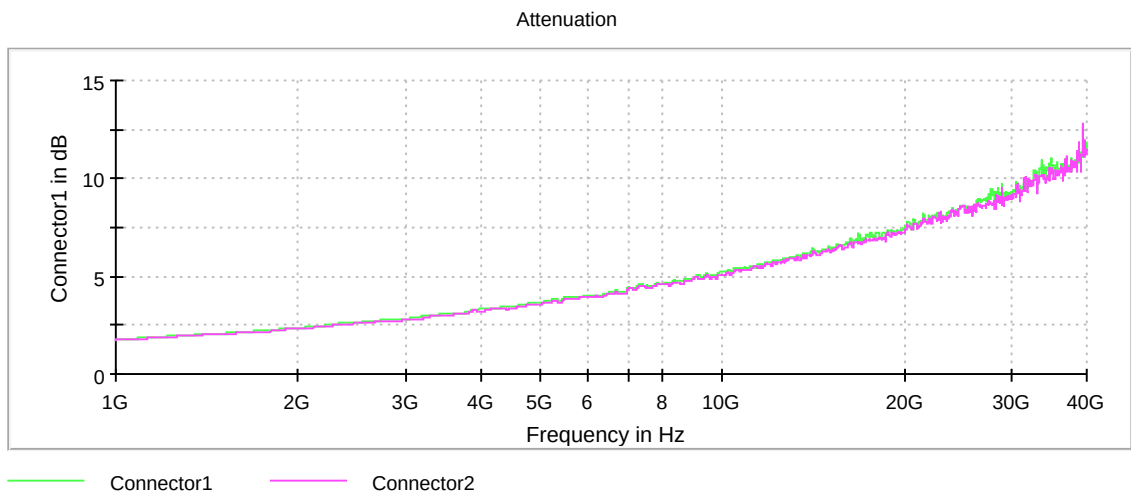
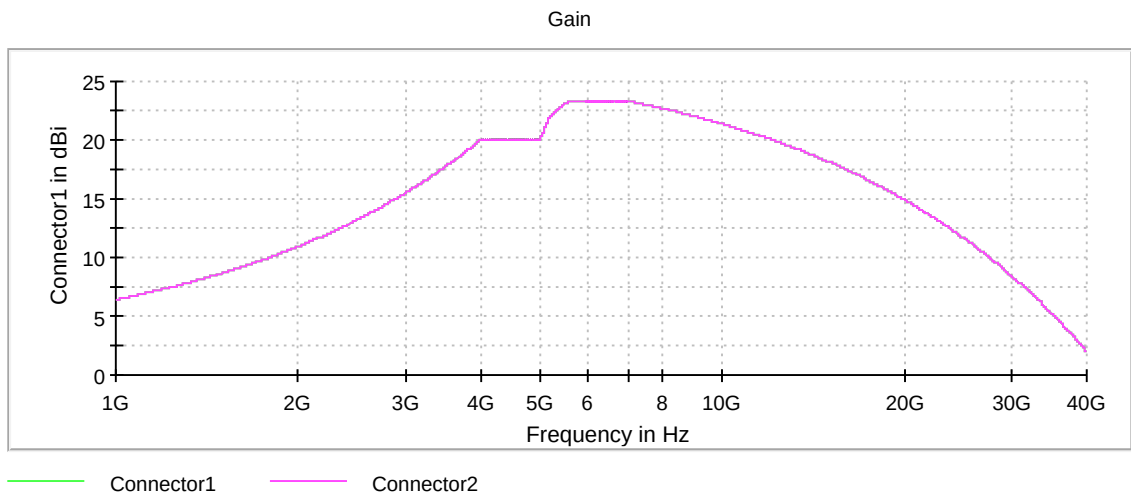
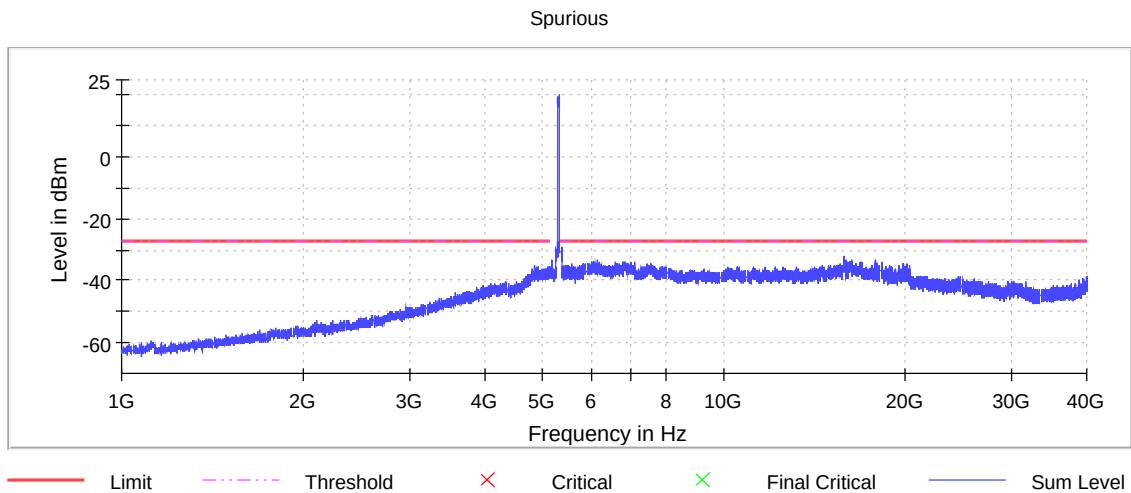
Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result
---	---	---	---	---	---

Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
5353.250000	-27.4	0.4	-27.0
5351.250000	-27.5	0.5	-27.0
5351.750000	-27.5	0.5	-27.0
5353.750000	-27.5	0.5	-27.0
5354.750000	-27.8	0.8	-27.0
5355.250000	-28.2	1.2	-27.0
5352.750000	-28.3	1.3	-27.0
5354.250000	-28.3	1.3	-27.0
5364.750000	-28.9	1.9	-27.0
5364.250000	-29.0	2.0	-27.0
5352.250000	-29.2	2.2	-27.0
5350.750000	-29.3	2.3	-27.0
5355.750000	-29.7	2.7	-27.0
5365.250000	-29.7	2.7	-27.0
5358.750000	-29.7	2.7	-27.0

Measurement Settings

Start Frequency (MHz)	Stop Frequency (MHz)	Pre Measurement	Final Measurement
1000.000000	5150.000000	2	2
5150.000000	5250.000000	2	2
5250.000000	5350.000000	2	2
5350.000000	5470.000000	2	2
5470.000000	5725.000000	2	2
5725.000000	5850.000000	2	2
5850.000000	7000.000000	2	2
7000.000000	18000.000000	2	2
18000.000000	26000.000000	2	2
26000.000000	40000.000000	2	2



Pre Measurement 2

Setting	Instrument Value	Target Value
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	8300	~ 8300
SweepTime	8.300 ms	AUTO
Reference Level	0.000 dBm	AUTO
Attenuation	10.000 dB	10.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	30	30
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off

Emissions in restricted frequency bands (Average) (5325 MHz; 40 MHz)

Customized settings.

Test according to FCC title 47 part 15 §15.407(b), KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 II.G.1 and ANSI C63.10-2013

Result

DUT Frequency (MHz)	Result
5325.000000	PASS

Final measurements

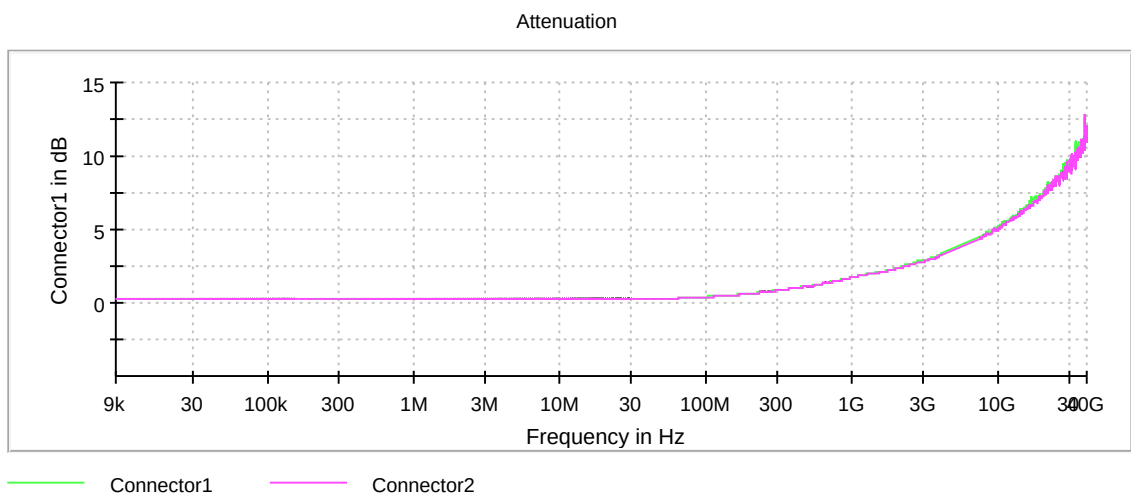
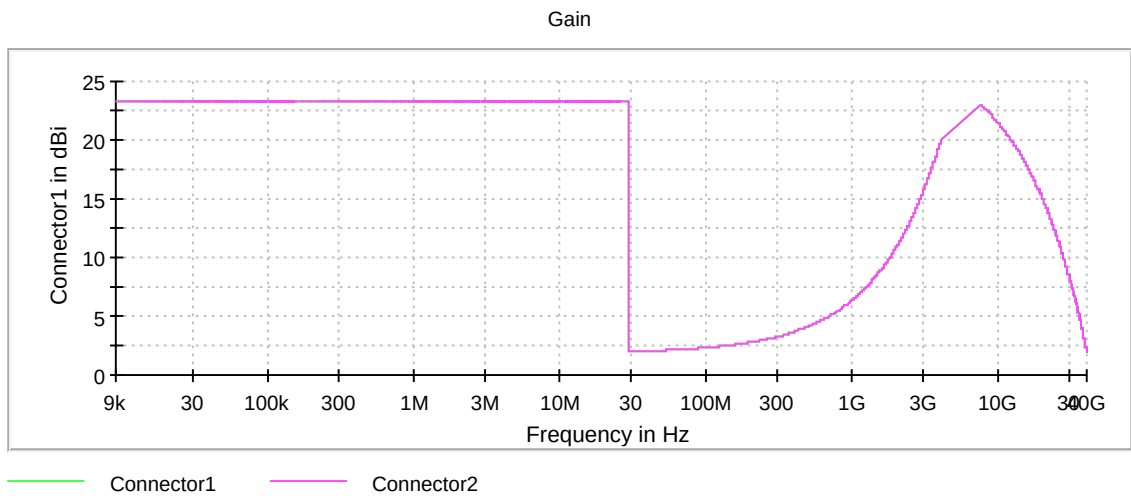
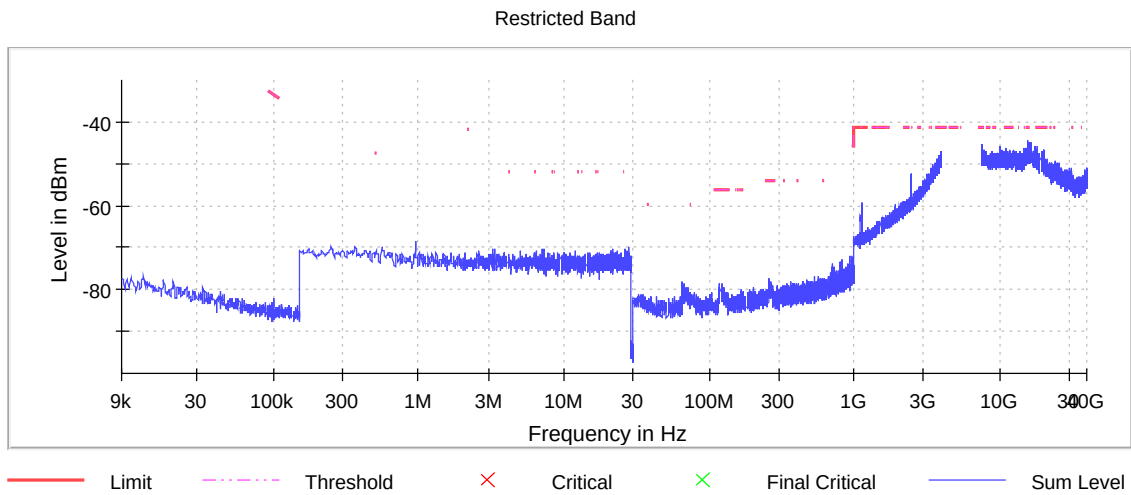
Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result
---	---	---	---	---	---

Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
15872.750000	-44.6	3.4	-41.2
16165.250000	-44.7	3.5	-41.2
15865.750000	-44.9	3.7	-41.2
16158.250000	-45.2	4.0	-41.2
15807.250000	-45.2	4.0	-41.2
15837.250000	-45.3	4.1	-41.2
15839.750000	-45.3	4.1	-41.2
16157.750000	-45.3	4.1	-41.2
15838.750000	-45.3	4.1	-41.2
16183.750000	-45.4	4.2	-41.2
15808.750000	-45.4	4.2	-41.2
15812.250000	-45.4	4.2	-41.2
16142.750000	-45.4	4.2	-41.2
15889.750000	-45.4	4.2	-41.2
15851.750000	-45.4	4.2	-41.2

Measurement Settings

Start Frequency (MHz)	Stop Frequency (MHz)	Pre Measurement	Final Measurement
0.009000	0.090000	1	1
0.090000	0.110000	2	2
0.110000	0.150000	1	1
0.150000	0.490000	1	1
0.490000	30.000000	2	2
30.000000	1000.000000	2	2
1000.000000	4000.000000	1	1
7500.000000	18000.000000	1	1
18000.000000	26000.000000	1	1
26000.000000	40000.000000	1	1



Pre Measurement 1

Setting	Instrument Value	Target Value
RBW	300.000 Hz	<= 300.000 Hz
VBW	1.000 kHz	>= 900.000 Hz
SweepPoints	540	~ 540
SweepTime	6.322 ms	AUTO
Reference Level	-5.000 dBm	AUTO
Attenuation	5.000 dB	5.000 dB
Detector	RMS	RMS
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off

Pre Measurement 2

Setting	Instrument Value	Target Value
RBW	300.000 Hz	<= 300.000 Hz
VBW	1.000 kHz	>= 900.000 Hz
SweepPoints	133	~ 133
SweepTime	6.312 ms	AUTO
Reference Level	-5.000 dBm	AUTO
Attenuation	5.000 dB	5.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	30	30
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off

Emissions in restricted frequency bands (Peak) (5325 MHz; 40 MHz)

Customized settings.

Test according to FCC title 47 part 15 §15.407(b), KDB 789033 D02 General U-NII Test Procedures
New Rules v02r01 II.G.1 and ANSI C63.10-2013

Result

DUT Frequency (MHz)	Result
5325.000000	PASS

Final measurements

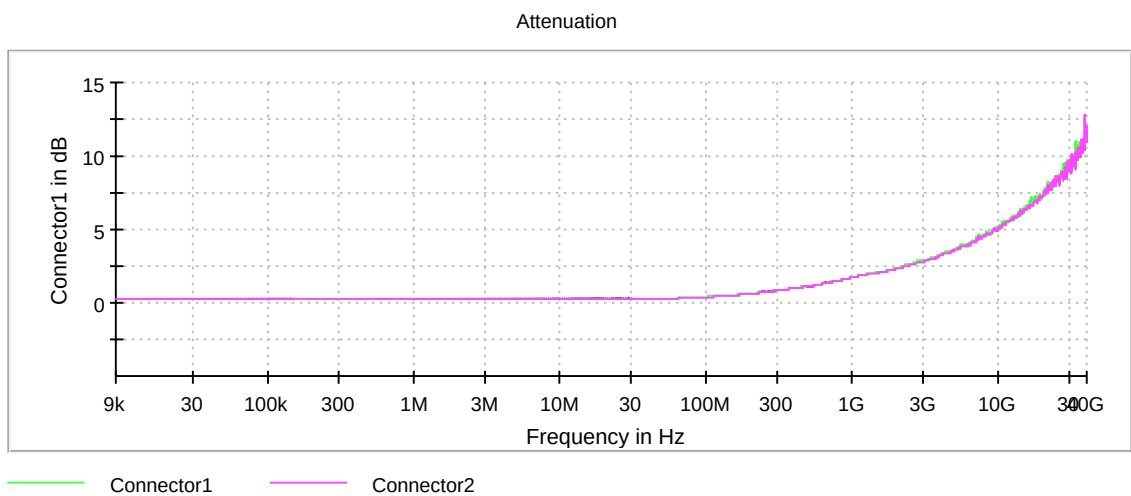
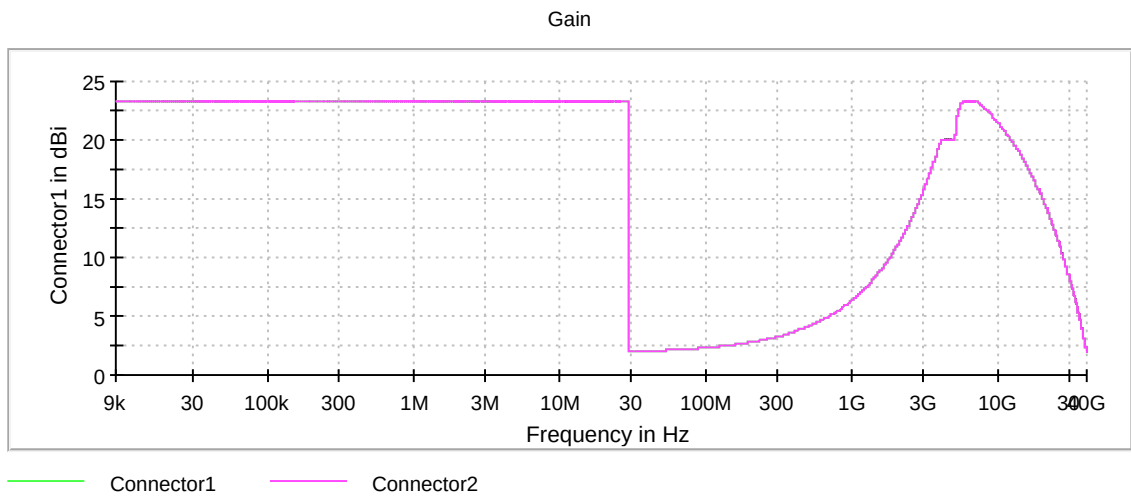
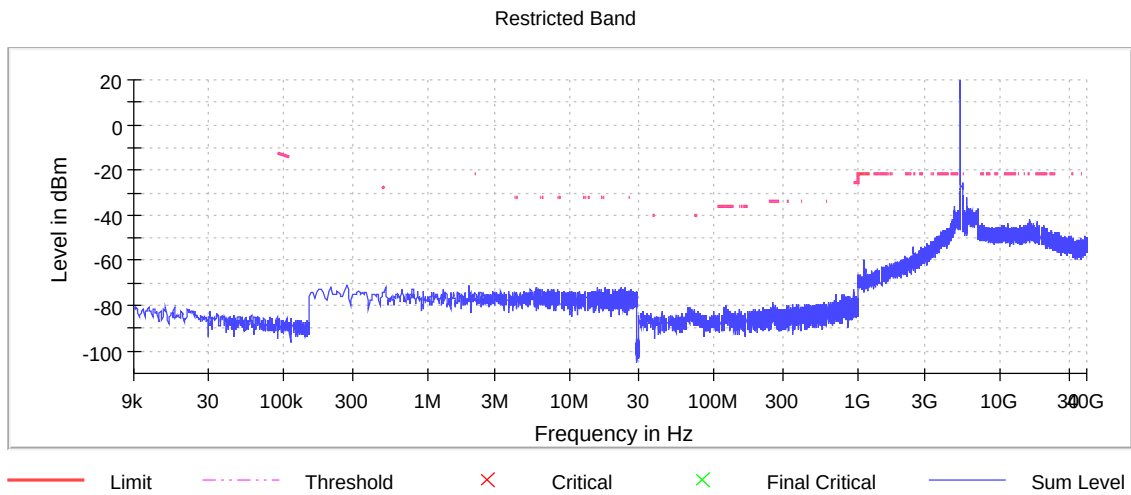
Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result
---	---	---	---	---	---

Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
5350.250000	-31.2	10.0	-21.2
5350.000000	-31.2	10.0	-21.2
5353.750000	-31.4	10.2	-21.2
5354.250000	-31.5	10.3	-21.2
5351.250000	-31.6	10.4	-21.2
5356.750000	-31.7	10.5	-21.2
5357.250000	-31.8	10.6	-21.2
5350.750000	-31.9	10.7	-21.2
5367.250000	-31.9	10.7	-21.2
5369.250000	-31.9	10.7	-21.2
5352.750000	-32.0	10.8	-21.2
5357.750000	-32.2	11.0	-21.2
5368.750000	-32.3	11.1	-21.2
5351.750000	-32.4	11.2	-21.2
5370.250000	-32.4	11.2	-21.2

Measurement Settings

Start Frequency (MHz)	Stop Frequency (MHz)	Pre Measurement	Final Measurement
0.009000	0.150000	1	1
0.150000	30.000000	1	1
30.000000	1000.000000	1	1
1000.000000	5150.000000	1	2
5150.000000	5350.000000	1	2
5350.000000	5470.000000	1	2
5470.000000	5850.000000	1	2
5850.000000	18000.000000	1	2
18000.000000	26000.000000	1	2
26000.000000	40000.000000	1	2



Pre Measurement 1

Setting	Instrument Value	Target Value
RBW	300.000 Hz	<= 300.000 Hz
VBW	1.000 kHz	>= 900.000 Hz
SweepPoints	940	~ 940
SweepTime	6.322 ms	AUTO
Reference Level	-5.000 dBm	AUTO
Attenuation	5.000 dB	5.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	3	3
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off

Emission Bandwidth 26 dB (5275 MHz; 50 MHz)

Customized settings.

Test according to FCC title 47 part 15 §15.407(a),(e), KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 D and ANSI C63.10-2013

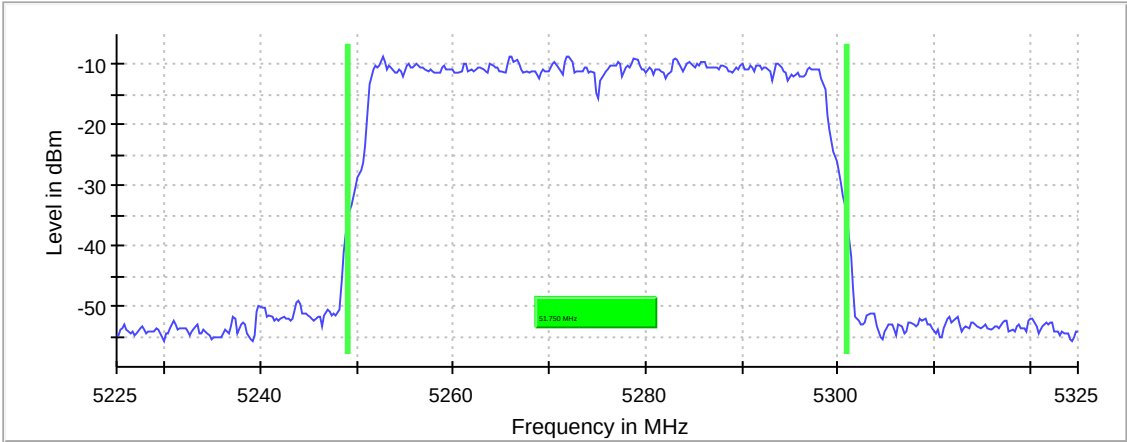
26 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5275.000000	51.750000	---	---	5249.125000	5300.875000

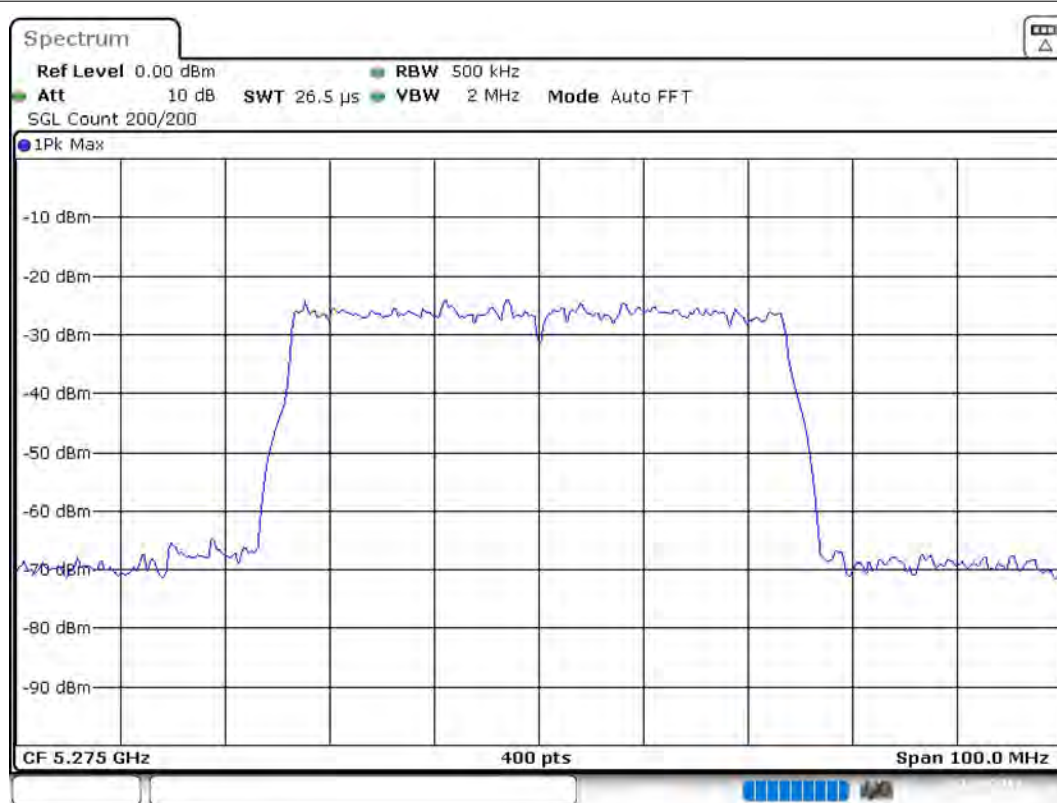
(continuation of the "26 dB Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
5275.000000	-8.5	PASS

26 dB Bandwidth



Bandwidth



Date: 2.AUG.2019 22:09:57

Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.22500 GHz	5.22500 GHz
Stop Frequency	5.32500 GHz	5.32500 GHz
Span	100.000 MHz	100.000 MHz
RBW	500.000 kHz	~ 500.000 kHz
VBW	2.000 MHz	>= 1.500 MHz
SweepPoints	400	~ 400
Sweeptime	26.469 μ s	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	10.000 dB	0.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	AUTO
Preamp	off	off

RF output power (5275 MHz; 50 MHz)

Customized settings.

Test according to FCC title 47 part 15 §15.407(a), KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 II.E and ANSI C63.10-2013

Result

DUT Frequency (MHz)	Gated RMS (dBm)	Limit Max (dBm)	Gated EIRP (dBm)	DutyCycle (%)	Result
5275.000000	30.0	---	30.0	99.705	PASS

Power Spectral Density (5275 MHz; 50 MHz)

Customized settings.

Test according to FCC title 47 part 15 §15.407(a), KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 II.F and ANSI C63.10-2013

Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
5275.000000	5276.980198	-9.026	-5.3	PASS

Ports

Port	Duty Cycle (%)
1	0.000
2	0.000

Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.25000 GHz	5.25000 GHz
Stop Frequency	5.30000 GHz	5.30000 GHz
Span	50.000 MHz	50.000 MHz
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	101	~ 100
SweepTime	2.020 ms	2.020 ms
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	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off

Occupied Channel Bandwidth 99% (5275 MHz; 50 MHz)

Customized settings.

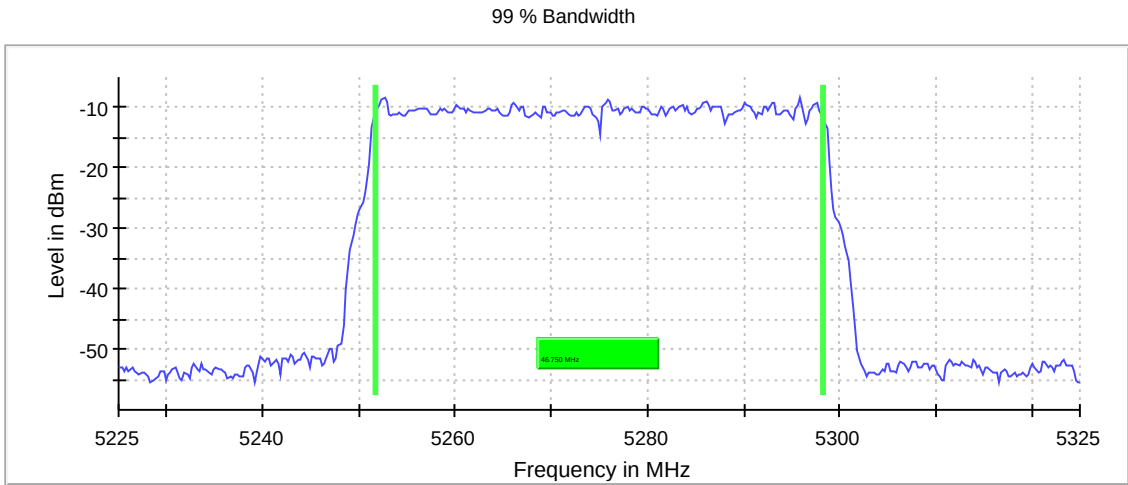
Test according to FCC title 47 part 15 §15.407(a),(e), KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 D and ANSI C63.10-2013

99 % Bandwidth

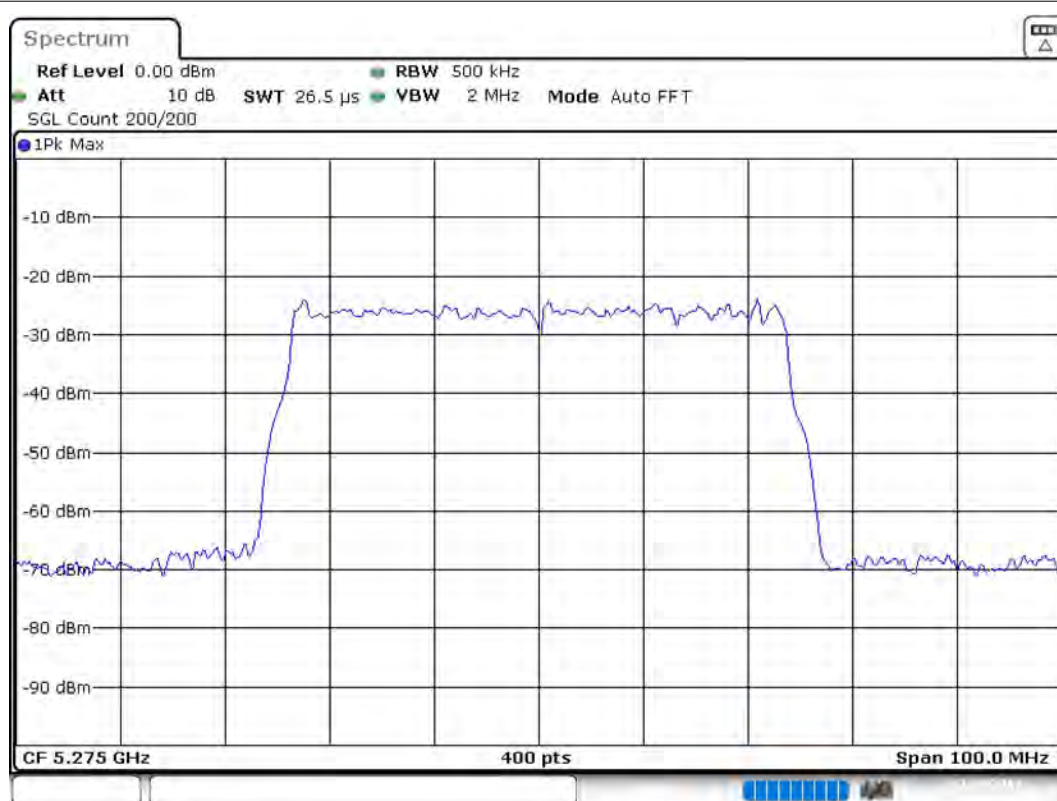
DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5275.000000	46.750000	---	---	5251.625000	5298.375000

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

DUT Frequency (MHz)	Result
5275.000000	PASS



Bandwidth



Date: 2.AUG.2019 22:10:47

Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.22500 GHz	5.22500 GHz
Stop Frequency	5.32500 GHz	5.32500 GHz
Span	100.000 MHz	100.000 MHz
RBW	500.000 kHz	$\geq$ 500.000 kHz
VBW	2.000 MHz	$\geq$ 1.500 MHz
SweepPoints	400	$\sim$ 400
Sweeptime	26.469 μ s	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	10.000 dB	0.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off

Tx Spurious Emission (5275 MHz; 50 MHz)

Customized settings.

Test according to FCC title 47 part 15 §15.407(b), KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 II.G.4&5 and ANSI C63.10-2013

Result

DUT Frequency (MHz)	Result
5275.000000	PASS

Final measurements

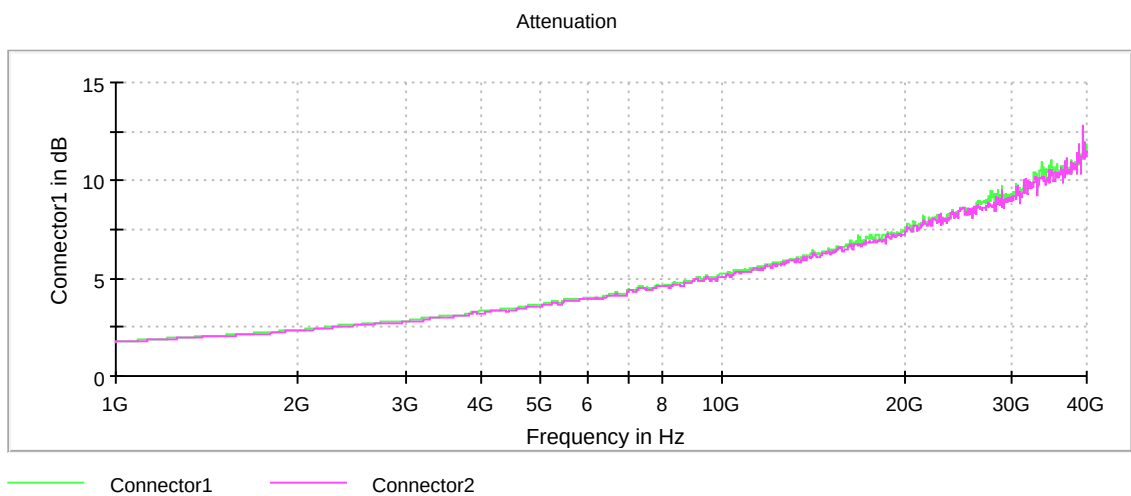
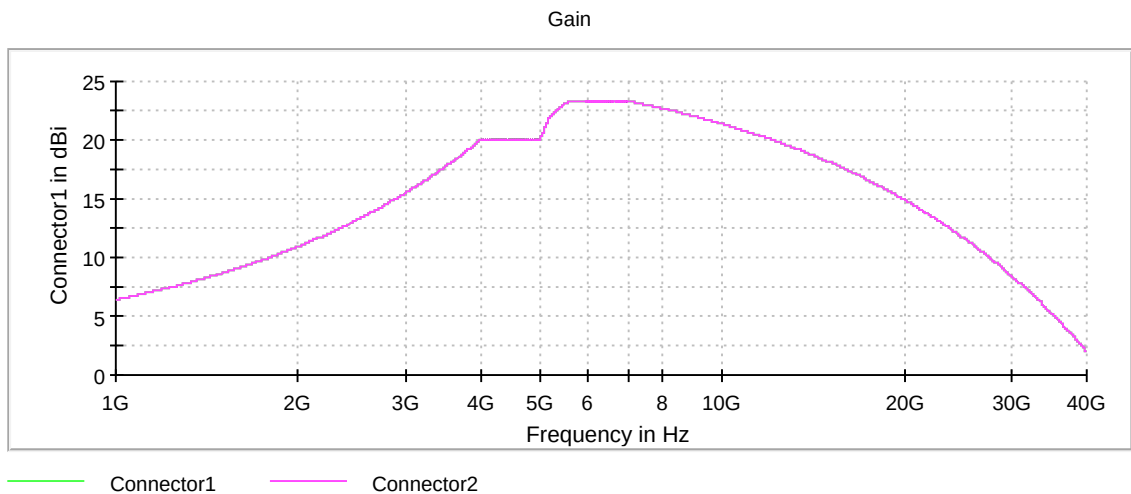
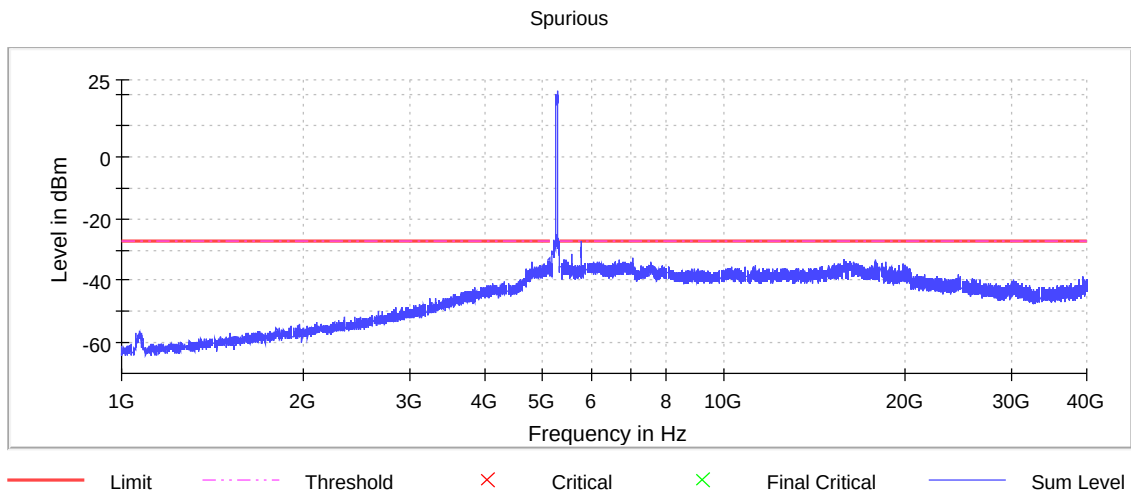
Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result
---	---	---	---	---	---

Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
5787.250000	-27.3	0.3	-27.0
5787.750000	-27.6	0.6	-27.0
5786.750000	-28.3	1.3	-27.0
5786.250000	-28.6	1.6	-27.0
5785.750000	-28.9	1.9	-27.0
5790.250000	-29.0	2.0	-27.0
5790.750000	-29.4	2.4	-27.0
5789.750000	-29.5	2.5	-27.0
5788.250000	-29.5	2.5	-27.0
5353.750000	-29.5	2.5	-27.0
5785.250000	-29.7	2.7	-27.0
5354.250000	-29.9	2.9	-27.0
5351.750000	-30.0	3.0	-27.0
5352.250000	-30.1	3.1	-27.0
5789.250000	-30.2	3.2	-27.0

Measurement Settings

Start Frequency (MHz)	Stop Frequency (MHz)	Pre Measurement	Final Measurement
1000.000000	5150.000000	2	2
5150.000000	5250.000000	2	2
5250.000000	5350.000000	2	2
5350.000000	5470.000000	2	2
5470.000000	5725.000000	2	2
5725.000000	5850.000000	2	2
5850.000000	7000.000000	2	2
7000.000000	18000.000000	2	2
18000.000000	26000.000000	2	2
26000.000000	40000.000000	2	2



Pre Measurement 2

Setting	Instrument Value	Target Value
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	8300	~ 8300
SweepTime	8.300 ms	AUTO
Reference Level	0.000 dBm	AUTO
Attenuation	10.000 dB	10.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	30	30
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off

Emissions in restricted frequency bands (Average) (5275 MHz; 50 MHz)

Customized settings.

Test according to FCC title 47 part 15 §15.407(b), KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 II.G.1 and ANSI C63.10-2013

Result

DUT Frequency (MHz)	Result
5275.000000	PASS

Final measurements

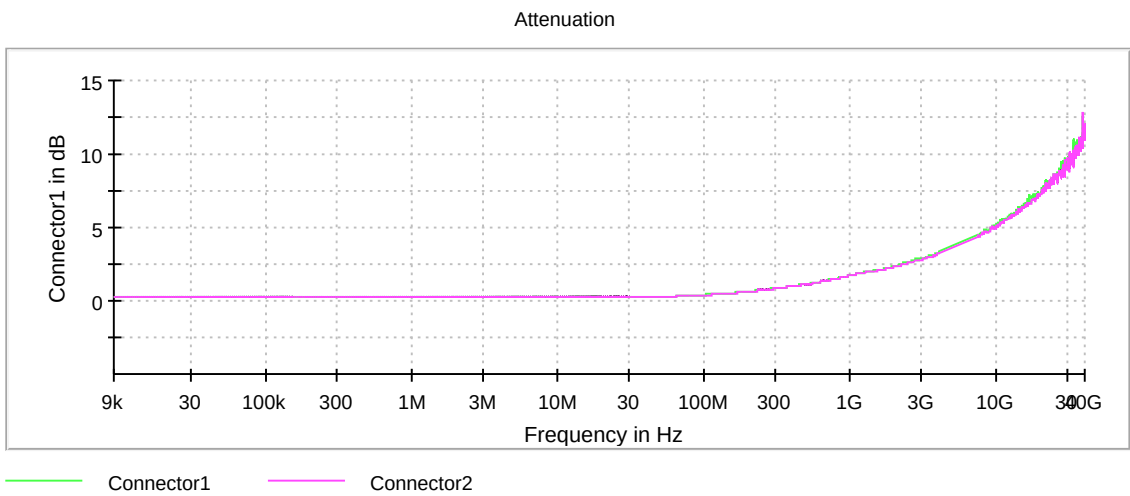
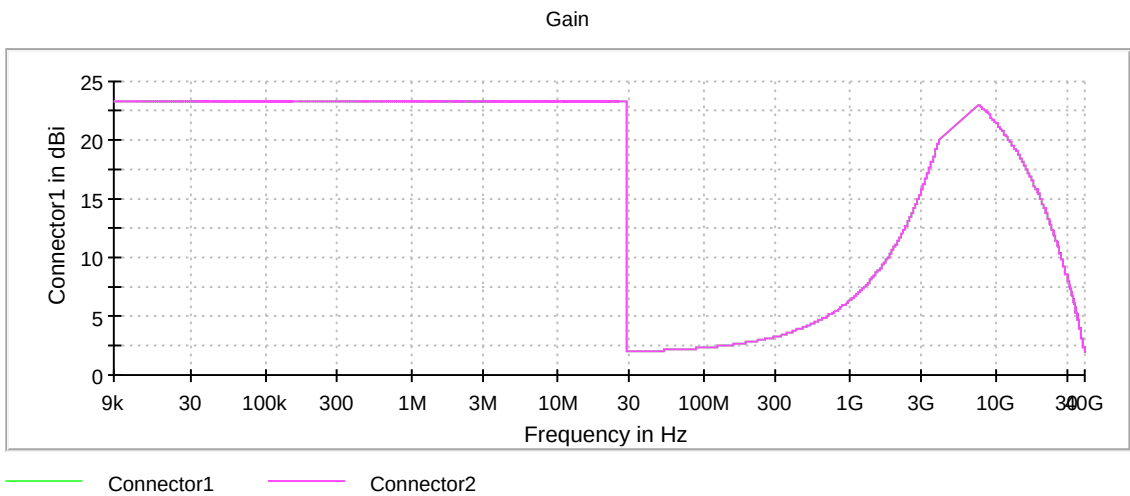
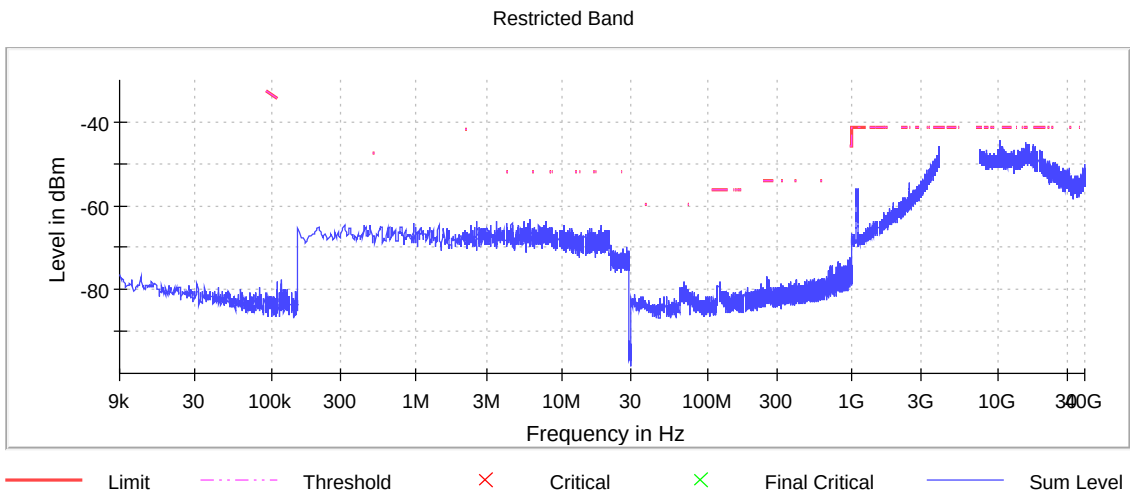
Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result
---	---	---	---	---	---

Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
15807.250000	-44.9	3.7	-41.2
15875.250000	-45.2	4.0	-41.2
15842.750000	-45.2	4.0	-41.2
16169.250000	-45.2	4.0	-41.2
15829.750000	-45.3	4.1	-41.2
15809.250000	-45.4	4.2	-41.2
17866.250000	-45.4	4.2	-41.2
15914.250000	-45.4	4.2	-41.2
15887.250000	-45.4	4.2	-41.2
15866.750000	-45.5	4.3	-41.2
15838.250000	-45.5	4.3	-41.2
15799.250000	-45.5	4.3	-41.2
15843.750000	-45.5	4.3	-41.2
15845.250000	-45.5	4.3	-41.2
15878.750000	-45.6	4.4	-41.2

Measurement Settings

Start Frequency (MHz)	Stop Frequency (MHz)	Pre Measurement	Final Measurement
0.009000	0.090000	1	1
0.090000	0.110000	2	2
0.110000	0.150000	1	1
0.150000	0.490000	1	1
0.490000	30.000000	2	2
30.000000	1000.000000	2	2
1000.000000	4000.000000	1	1
7500.000000	18000.000000	1	1
18000.000000	26000.000000	1	1
26000.000000	40000.000000	1	1



Pre Measurement 1

Setting	Instrument Value	Target Value
RBW	300.000 Hz	<= 300.000 Hz
VBW	1.000 kHz	>= 900.000 Hz
SweepPoints	540	~ 540
SweepTime	6.322 ms	AUTO
Reference Level	-5.000 dBm	AUTO
Attenuation	5.000 dB	5.000 dB
Detector	RMS	RMS
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamplifier	off	off

Pre Measurement 2

Setting	Instrument Value	Target Value
RBW	300.000 Hz	<= 300.000 Hz
VBW	1.000 kHz	>= 900.000 Hz
SweepPoints	133	~ 133
SweepTime	6.312 ms	AUTO
Reference Level	-5.000 dBm	AUTO
Attenuation	5.000 dB	5.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	30	30
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamplifier	off	off

Emissions in restricted frequency bands (Peak) (5275 MHz; 50 MHz)

Customized settings.

Test according to FCC title 47 part 15 §15.407(b), KDB 789033 D02 General U-NII Test Procedures
New Rules v02r01 II.G.1 and ANSI C63.10-2013

Result

DUT Frequency (MHz)	Result
5275.000000	PASS

Final measurements

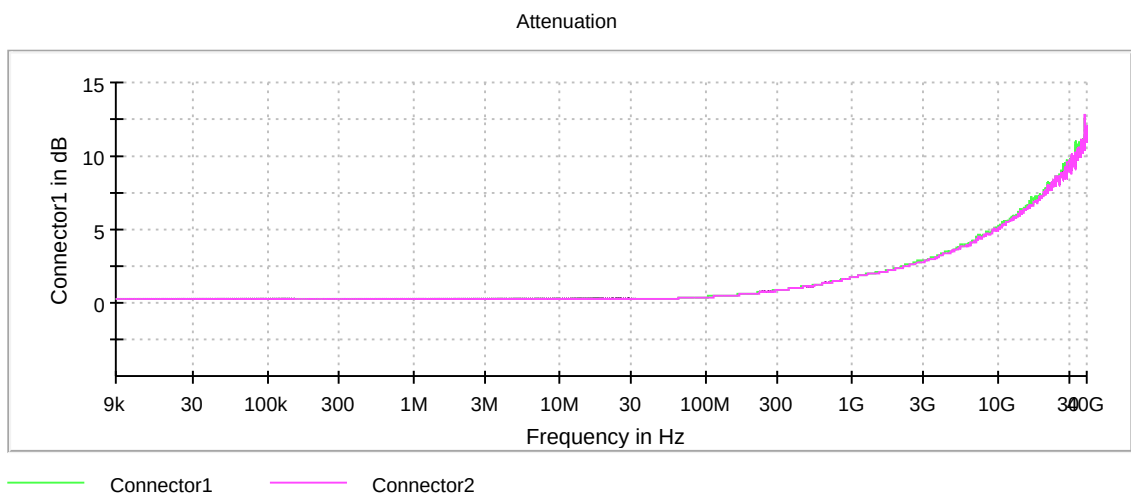
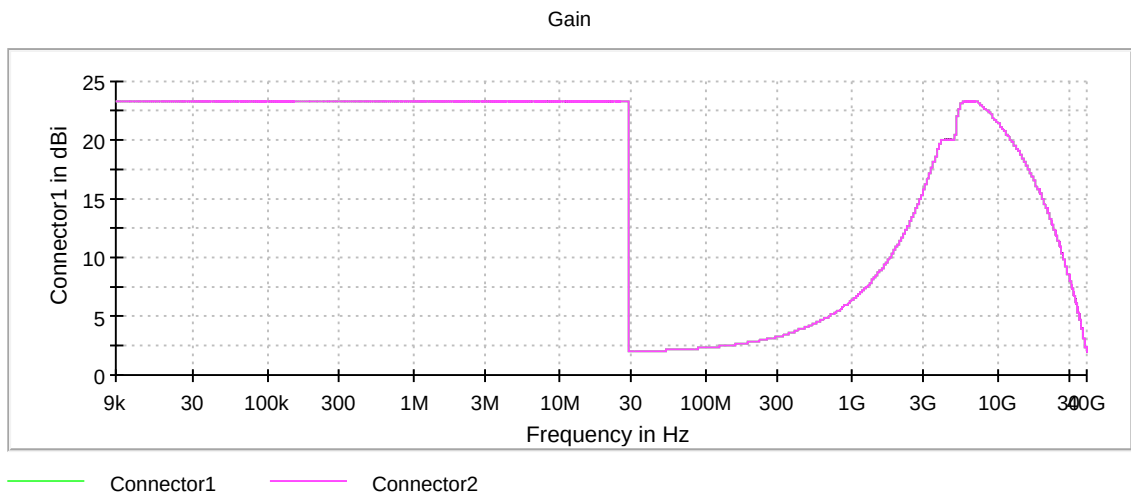
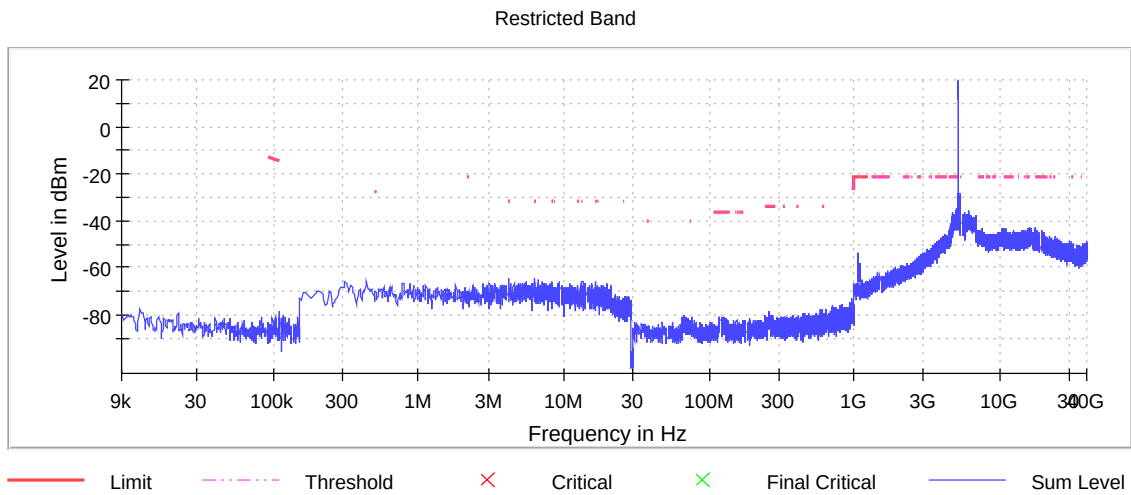
Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result
---	---	---	---	---	---

Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
5353.250000	-32.0	10.8	-21.2
5352.750000	-32.4	11.2	-21.2
5353.750000	-32.8	11.6	-21.2
5352.250000	-33.3	12.1	-21.2
5351.750000	-33.7	12.5	-21.2
5354.250000	-34.0	12.8	-21.2
5354.750000	-34.2	13.0	-21.2
5351.250000	-34.6	13.4	-21.2
5119.750000	-34.7	13.5	-21.2
5350.000000	-34.9	13.7	-21.2
5120.250000	-35.0	13.8	-21.2
5106.750000	-35.4	14.2	-21.2
4833.750000	-36.3	15.1	-21.2
5350.250000	-36.4	15.2	-21.2
5139.250000	-36.4	15.2	-21.2

Measurement Settings

Start Frequency (MHz)	Stop Frequency (MHz)	Pre Measurement	Final Measurement
0.009000	0.150000	1	1
0.150000	30.000000	1	1
30.000000	1000.000000	1	1
1000.000000	5150.000000	1	2
5150.000000	5350.000000	1	2
5350.000000	5470.000000	1	2
5470.000000	5850.000000	1	2
5850.000000	18000.000000	1	2
18000.000000	26000.000000	1	2
26000.000000	40000.000000	1	2



Pre Measurement 1

Setting	Instrument Value	Target Value
RBW	300.000 Hz	<= 300.000 Hz
VBW	1.000 kHz	>= 900.000 Hz
SweepPoints	940	~ 940
SweepTime	6.322 ms	AUTO
Reference Level	-5.000 dBm	AUTO
Attenuation	5.000 dB	5.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	3	3
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off

Emission Bandwidth 26 dB (5300 MHz; 50 MHz)

Customized settings.

Test according to FCC title 47 part 15 §15.407(a),(e), KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 D and ANSI C63.10-2013

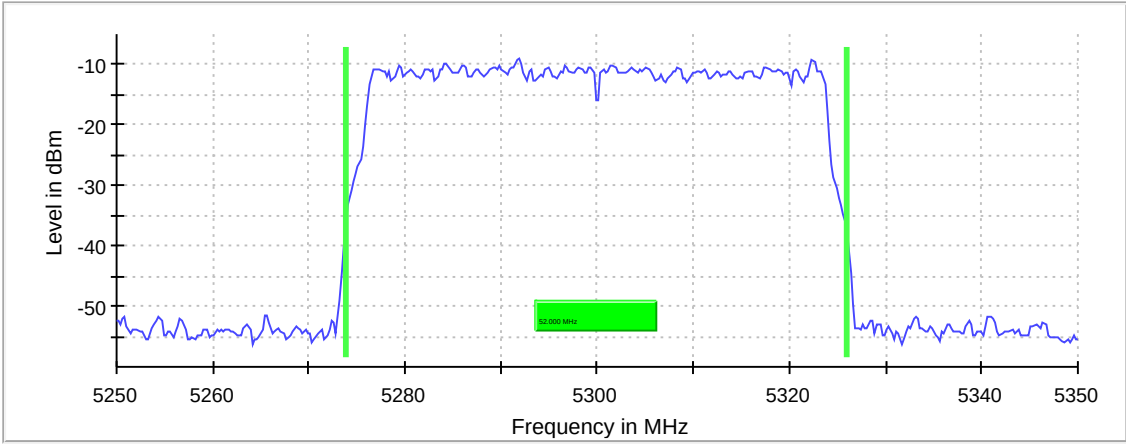
26 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5300.000000	52.000000	---	---	5273.875000	5325.875000

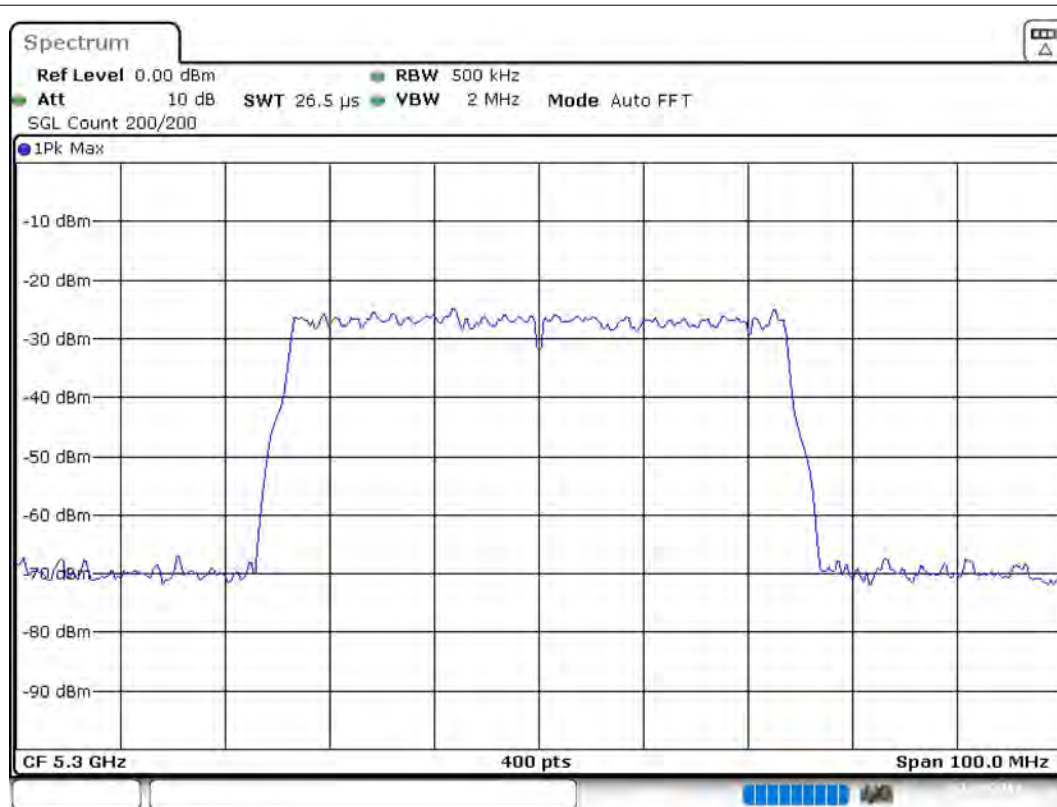
(continuation of the "26 dB Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
5300.000000	-9.1	PASS

26 dB Bandwidth



Bandwidth



Date: 2.AUG.2019 23:54:29

Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.25000 GHz	5.25000 GHz
Stop Frequency	5.35000 GHz	5.35000 GHz
Span	100.000 MHz	100.000 MHz
RBW	500.000 kHz	~ 500.000 kHz
VBW	2.000 MHz	>= 1.500 MHz
SweepPoints	400	~ 400
Sweeptime	26.469 μ s	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	10.000 dB	0.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off

RF output power (5300 MHz; 50 MHz)

Customized settings.

Test according to FCC title 47 part 15 §15.407(a), KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 II.E and ANSI C63.10-2013

Result

DUT Frequency (MHz)	Gated RMS (dBm)	Limit Max (dBm)	Gated EIRP (dBm)	DutyCycle (%)	Result
5300.000000	29.6	---	29.6	99.705	PASS

Power Spectral Density (5300 MHz; 50 MHz)

Customized settings.

Test according to FCC title 47 part 15 §15.407(a), KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 II.F and ANSI C63.10-2013

Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
5300.000000	5294.059406	-9.572	-5.4	PASS

Ports

Port	Duty Cycle (%)
1	0.000
2	0.000

Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.27500 GHz	5.27500 GHz
Stop Frequency	5.32500 GHz	5.32500 GHz
Span	50.000 MHz	50.000 MHz
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	101	~ 100
SweepTime	2.020 ms	2.020 ms
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	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off

Occupied Channel Bandwidth 99% (5300 MHz; 50 MHz)

Customized settings.

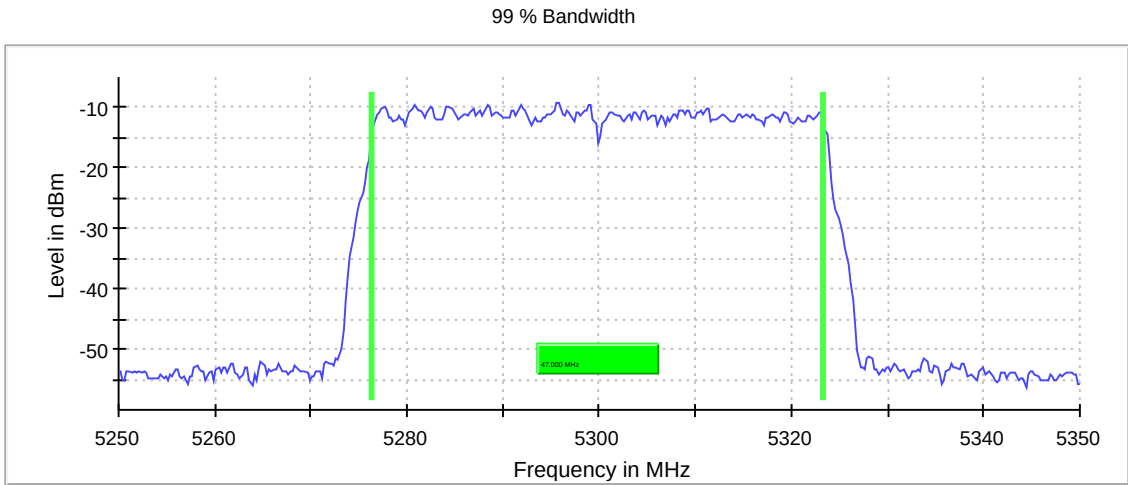
Test according to FCC title 47 part 15 §15.407(a),(e), KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 D and ANSI C63.10-2013

99 % Bandwidth

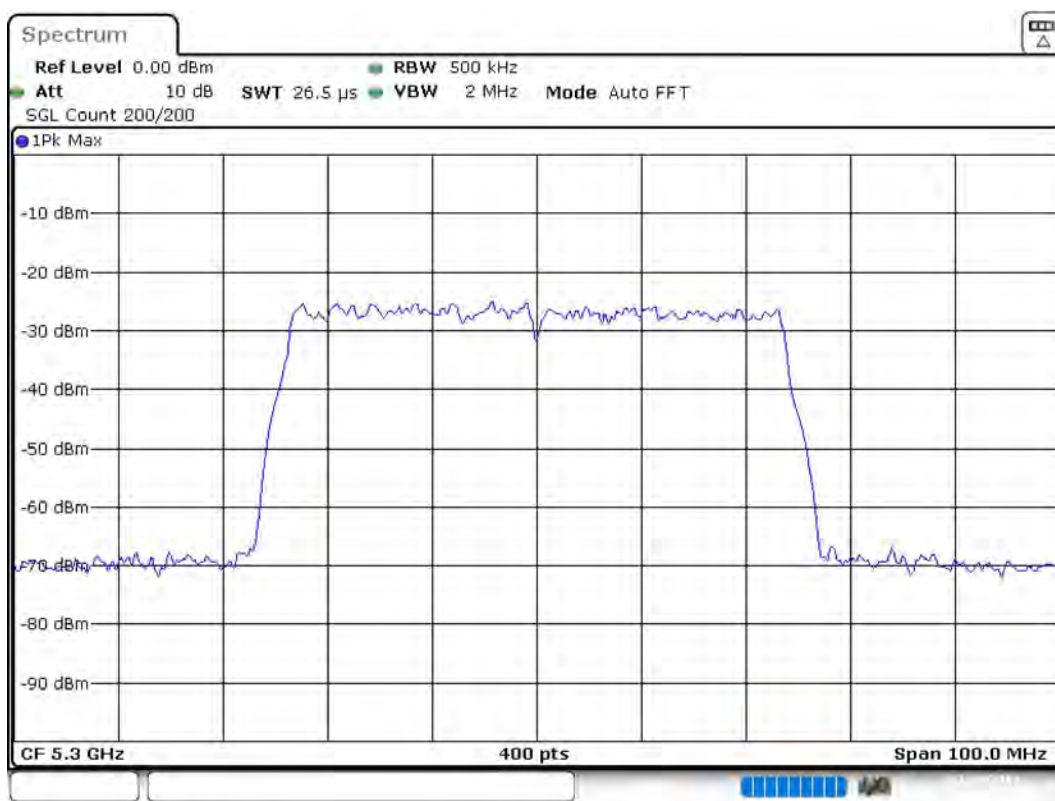
DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5300.000000	47.000000	---	---	5276.375000	5323.375000

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

DUT Frequency (MHz)	Result
5300.000000	PASS



Bandwidth



Date: 2.AUG.2019 22:55:22

Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.25000 GHz	5.25000 GHz
Stop Frequency	5.35000 GHz	5.35000 GHz
Span	100.000 MHz	100.000 MHz
RBW	500.000 kHz	≥ 500.000 kHz
VBW	2.000 MHz	≥ 1.500 MHz
SweepPoints	400	~ 400
Sweeptime	26.469 μ s	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	10.000 dB	0.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	AUTO
Preamp	off	off

Emissions in restricted frequency bands (Average) (5300 MHz; 50 MHz)

Customized settings.

Test according to FCC title 47 part 15 §15.407(b), KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 II.G.1 and ANSI C63.10-2013

Result

DUT Frequency (MHz)	Result
5300.000000	PASS

Final measurements

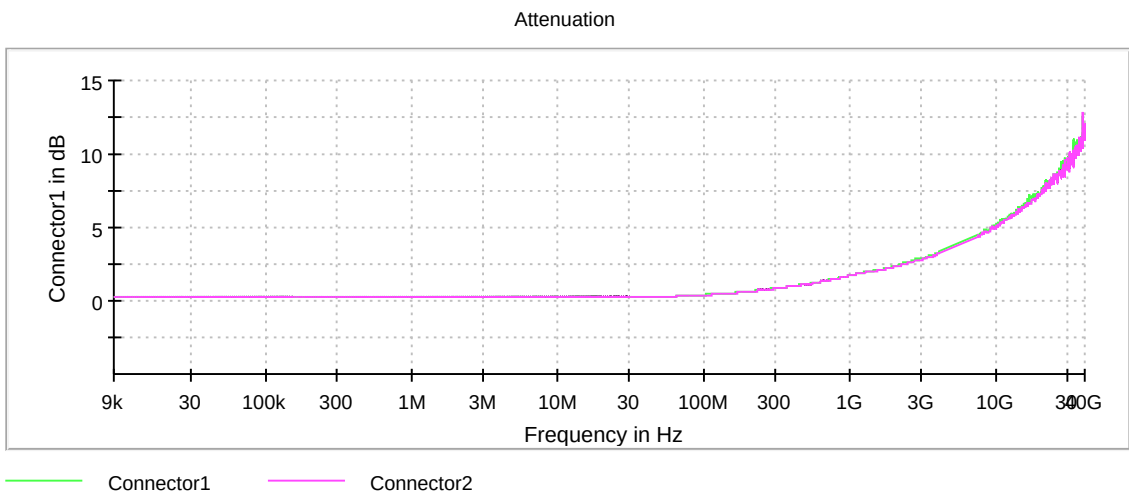
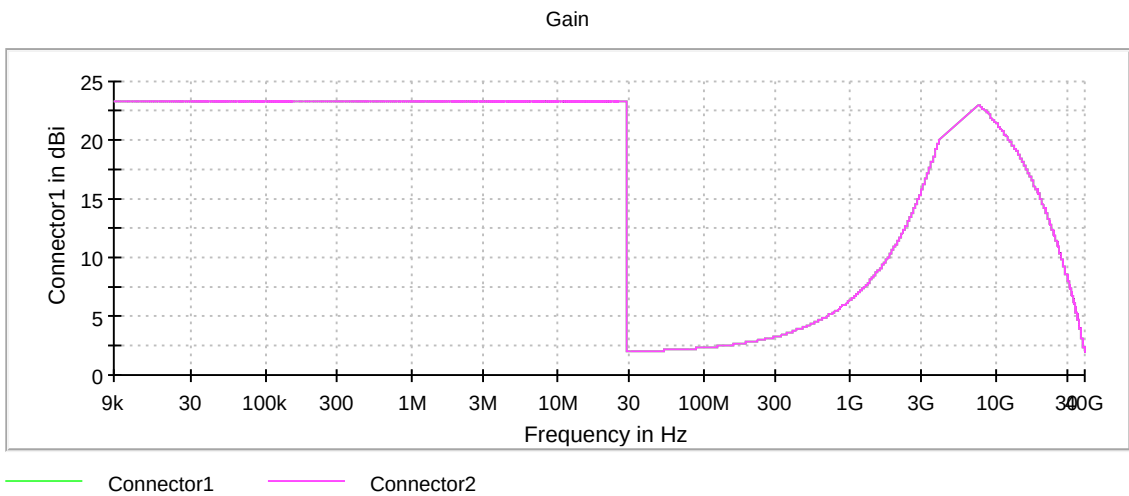
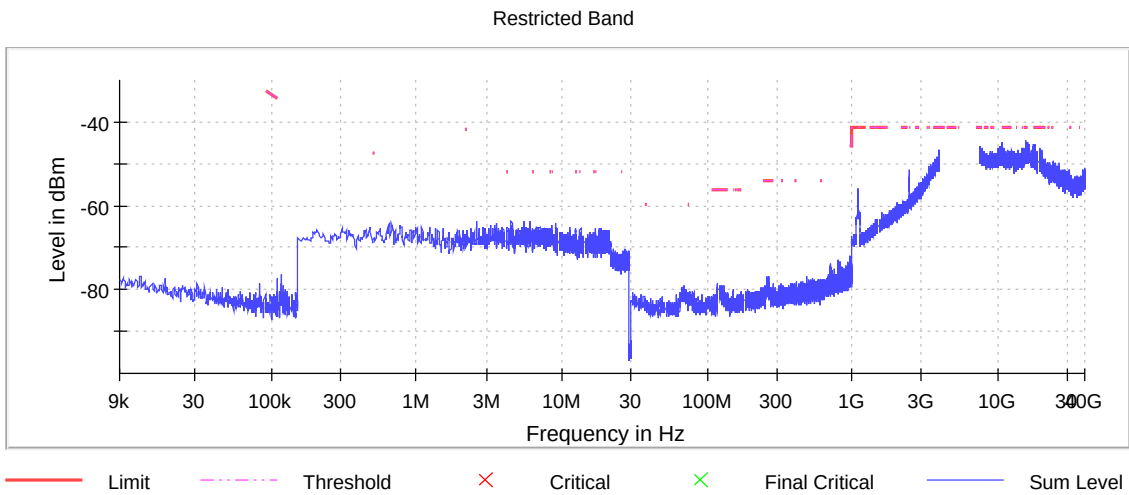
Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result
---	---	---	---	---	---

Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
15873.750000	-44.6	3.4	-41.2
15887.250000	-45.0	3.8	-41.2
15831.250000	-45.1	3.9	-41.2
15850.750000	-45.1	3.9	-41.2
15888.250000	-45.2	4.0	-41.2
18211.750000	-45.2	4.0	-41.2
15827.750000	-45.2	4.0	-41.2
17896.750000	-45.3	4.1	-41.2
15917.250000	-45.3	4.1	-41.2
15904.250000	-45.3	4.1	-41.2
15844.250000	-45.4	4.2	-41.2
15854.750000	-45.4	4.2	-41.2
16195.750000	-45.4	4.2	-41.2
18240.750000	-45.4	4.2	-41.2
15859.750000	-45.5	4.3	-41.2

Measurement Settings

Start Frequency (MHz)	Stop Frequency (MHz)	Pre Measurement	Final Measurement
0.009000	0.090000	1	1
0.090000	0.110000	2	2
0.110000	0.150000	1	1
0.150000	0.490000	1	1
0.490000	30.000000	2	2
30.000000	1000.000000	2	2
1000.000000	4000.000000	1	1
7500.000000	18000.000000	1	1
18000.000000	26000.000000	1	1
26000.000000	40000.000000	1	1



Pre Measurement 1

Setting	Instrument Value	Target Value
RBW	300.000 Hz	<= 300.000 Hz
VBW	1.000 kHz	>= 900.000 Hz
SweepPoints	540	~ 540
SweepTime	6.322 ms	AUTO
Reference Level	-5.000 dBm	AUTO
Attenuation	5.000 dB	5.000 dB
Detector	RMS	RMS
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off

Pre Measurement 2

Setting	Instrument Value	Target Value
RBW	300.000 Hz	<= 300.000 Hz
VBW	1.000 kHz	>= 900.000 Hz
SweepPoints	133	~ 133
SweepTime	6.312 ms	AUTO
Reference Level	-5.000 dBm	AUTO
Attenuation	5.000 dB	5.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	30	30
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off

Emissions in restricted frequency bands (Peak) (5300 MHz; 50 MHz)

Customized settings.

Test according to FCC title 47 part 15 §15.407(b), KDB 789033 D02 General U-NII Test Procedures
New Rules v02r01 II.G.1 and ANSI C63.10-2013

Result

DUT Frequency (MHz)	Result
5300.000000	PASS

Final measurements

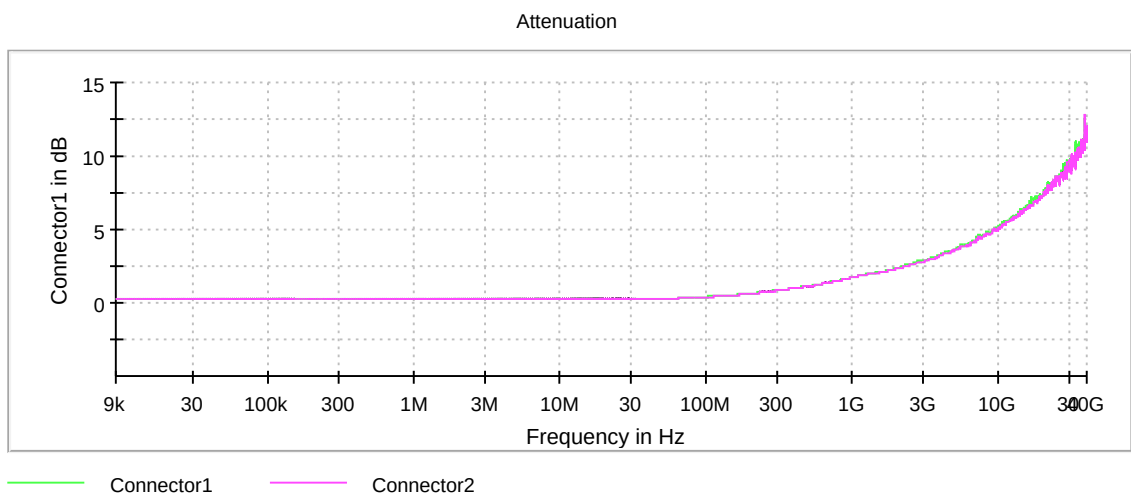
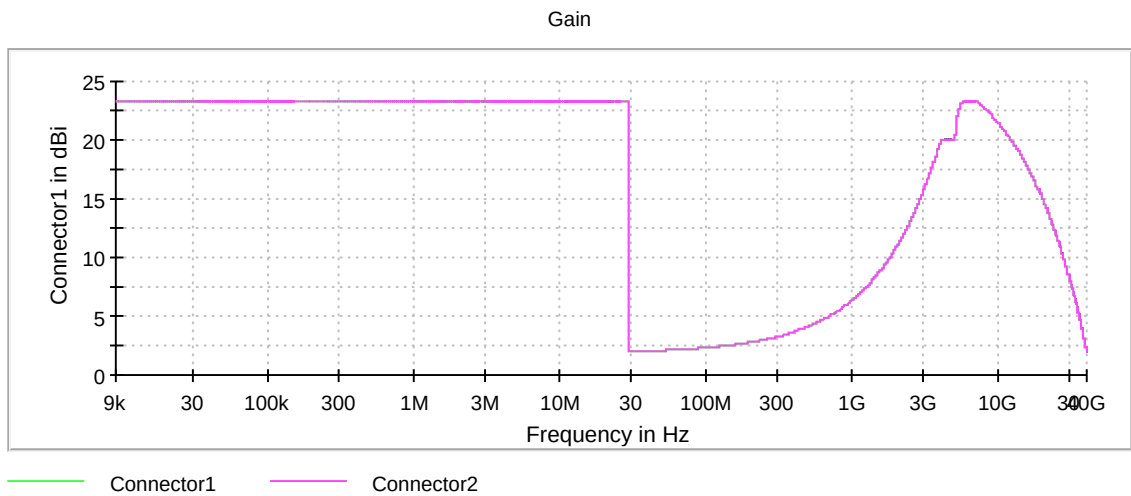
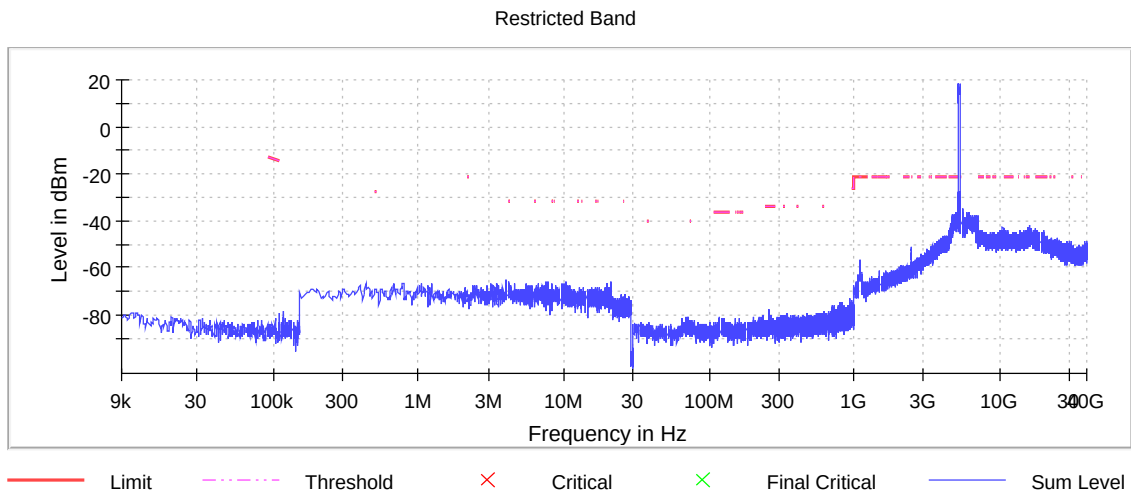
Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result
---	---	---	---	---	---

Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
5371.750000	-29.2	8.0	-21.2
5371.250000	-29.7	8.5	-21.2
5372.250000	-29.8	8.6	-21.2
5369.250000	-30.4	9.2	-21.2
5368.750000	-30.4	9.2	-21.2
5368.250000	-30.4	9.2	-21.2
5370.750000	-30.6	9.4	-21.2
5354.750000	-30.6	9.4	-21.2
5354.250000	-30.7	9.5	-21.2
5357.750000	-30.8	9.6	-21.2
5369.750000	-30.8	9.6	-21.2
5358.250000	-30.9	9.7	-21.2
5350.000000	-31.1	9.9	-21.2
5350.750000	-31.7	10.5	-21.2
5378.750000	-31.7	10.5	-21.2

Measurement Settings

Start Frequency (MHz)	Stop Frequency (MHz)	Pre Measurement	Final Measurement
0.009000	0.150000	1	1
0.150000	30.000000	1	1
30.000000	1000.000000	1	1
1000.000000	5150.000000	1	2
5150.000000	5350.000000	1	2
5350.000000	5470.000000	1	2
5470.000000	5850.000000	1	2
5850.000000	18000.000000	1	2
18000.000000	26000.000000	1	2
26000.000000	40000.000000	1	2



Pre Measurement 1

Setting	Instrument Value	Target Value
RBW	300.000 Hz	<= 300.000 Hz
VBW	1.000 kHz	>= 900.000 Hz
SweepPoints	940	~ 940
SweepTime	6.322 ms	AUTO
Reference Level	-5.000 dBm	AUTO
Attenuation	5.000 dB	5.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	3	3
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off

Emission Bandwidth 26 dB (5320 MHz; 50 MHz)

Customized settings.

Test according to FCC title 47 part 15 §15.407(a),(e), KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 D and ANSI C63.10-2013

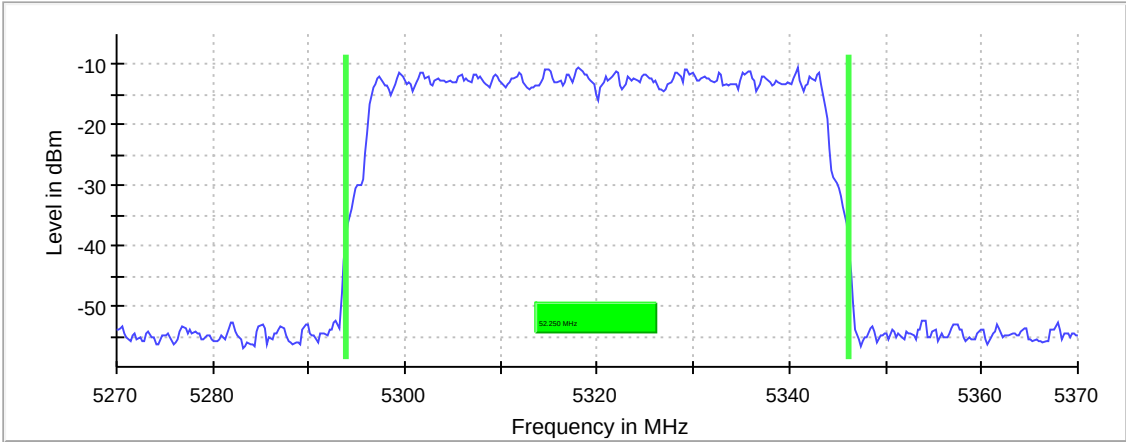
26 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5320.000000	52.250000	---	---	5293.875000	5346.125000

(continuation of the "26 dB Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
5320.000000	-10.5	PASS

26 dB Bandwidth



Bandwidth



Date: 2.AUG.2019 23:12:57

Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.27000 GHz	5.27000 GHz
Stop Frequency	5.37000 GHz	5.37000 GHz
Span	100.000 MHz	100.000 MHz
RBW	500.000 kHz	~ 500.000 kHz
VBW	2.000 MHz	>= 1.500 MHz
SweepPoints	400	~ 400
Sweeptime	26.469 μ s	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	10.000 dB	0.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off

RF output power (5320 MHz; 50 MHz)

Customized settings.

Test according to FCC title 47 part 15 §15.407(a), KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 II.E and ANSI C63.10-2013

Result

DUT Frequency (MHz)	Gated RMS (dBm)	Limit Max (dBm)	Gated EIRP (dBm)	DutyCycle (%)	Result
5320.000000	28.4	---	28.4	99.707	PASS

Power Spectral Density (5320 MHz; 50 MHz)

Customized settings.

Test according to FCC title 47 part 15 §15.407(a), KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 II.F and ANSI C63.10-2013

Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
5320.000000	5330.396040	-11.086	-5.5	PASS

Ports

Port	Duty Cycle (%)
1	0.000
2	0.000

Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.29500 GHz	5.29500 GHz
Stop Frequency	5.34500 GHz	5.34500 GHz
Span	50.000 MHz	50.000 MHz
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	101	~ 100
SweepTime	2.020 ms	2.020 ms
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	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off

Occupied Channel Bandwidth 99% (5320 MHz; 50 MHz)

Customized settings.

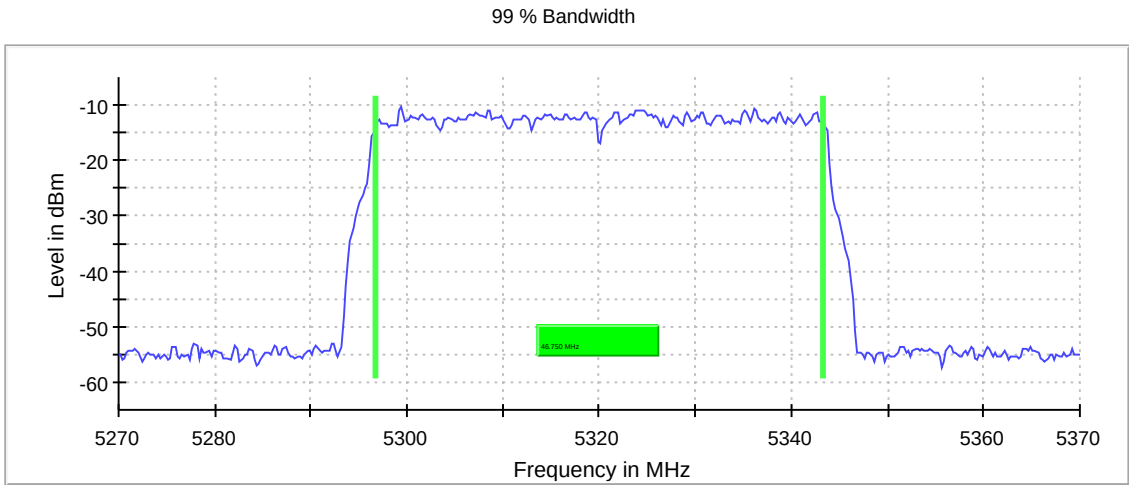
Test according to FCC title 47 part 15 §15.407(a),(e), KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 D and ANSI C63.10-2013

99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5320.000000	46.750000	---	---	5296.625000	5343.375000

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

DUT Frequency (MHz)	Result
5320.000000	PASS



Bandwidth



Date: 2.AUG.2019 23:13:49

Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.27000 GHz	5.27000 GHz
Stop Frequency	5.37000 GHz	5.37000 GHz
Span	100.000 MHz	100.000 MHz
RBW	500.000 kHz	≥ 500.000 kHz
VBW	2.000 MHz	≥ 1.500 MHz
SweepPoints	400	~ 400
Sweeptime	26.469 μ s	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	10.000 dB	0.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off

Tx Spurious Emission (5320 MHz; 50 MHz)

Customized settings.

Test according to FCC title 47 part 15 §15.407(b), KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 II.G.4&5 and ANSI C63.10-2013

Result

DUT Frequency (MHz)	Result
5320.000000	PASS

Final measurements

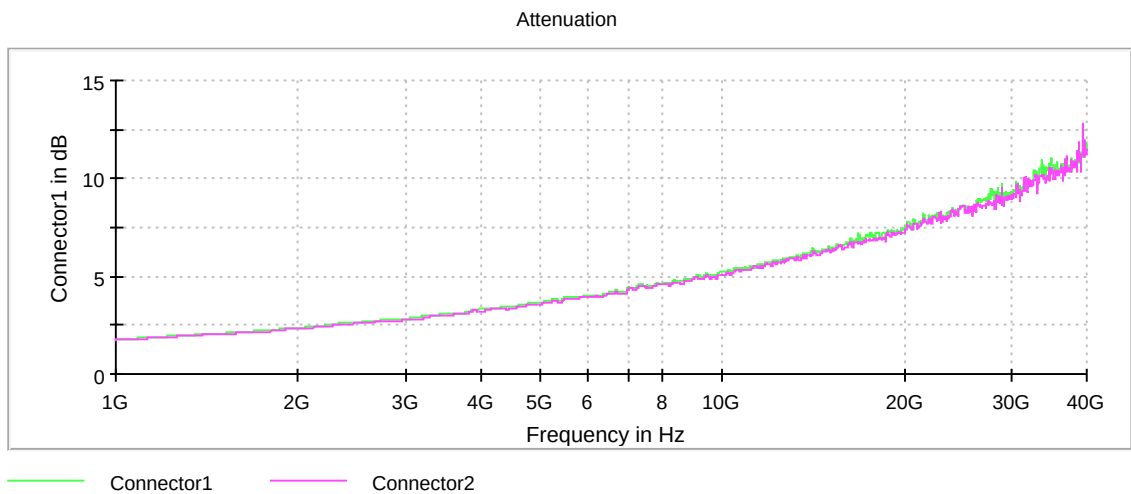
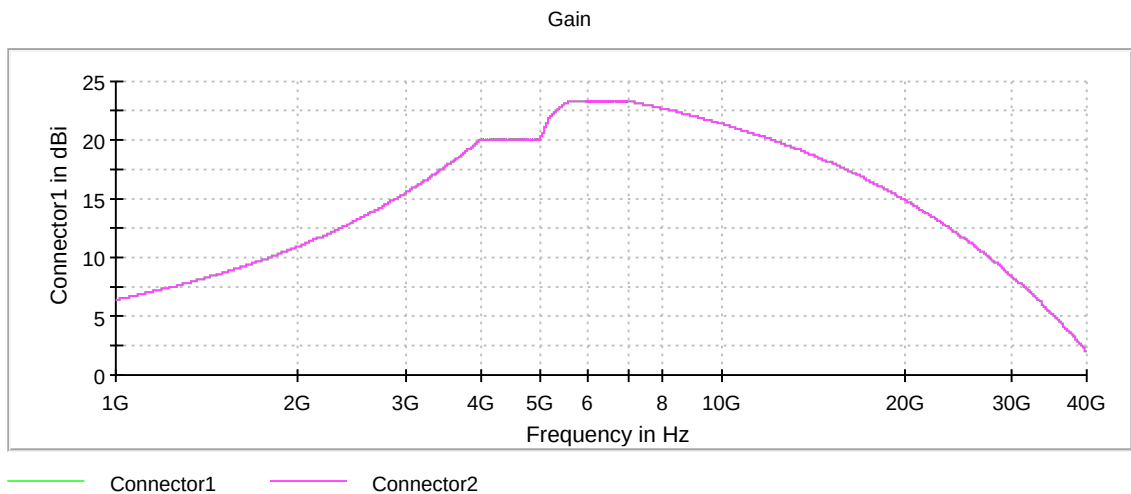
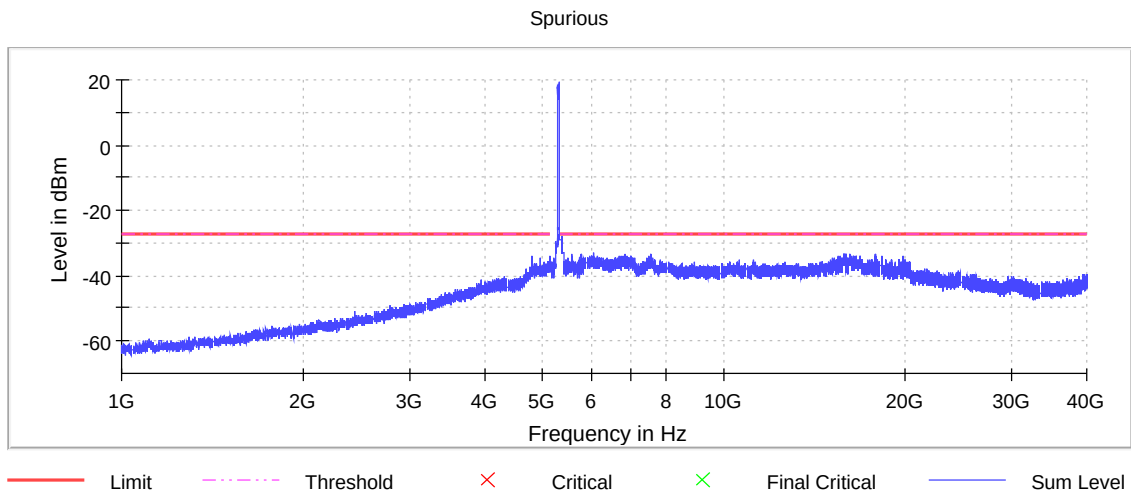
Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result
---	---	---	---	---	---

Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
5355.750000	-27.0	0.0	-27.0
5355.250000	-27.3	0.3	-27.0
5353.750000	-27.8	0.8	-27.0
5354.250000	-28.0	1.0	-27.0
5370.750000	-28.1	1.1	-27.0
5356.250000	-28.2	1.2	-27.0
5354.750000	-28.2	1.2	-27.0
5353.250000	-28.4	1.4	-27.0
5350.250000	-28.5	1.5	-27.0
5381.250000	-28.5	1.5	-27.0
5352.750000	-28.6	1.6	-27.0
5370.250000	-28.7	1.7	-27.0
5351.750000	-28.7	1.7	-27.0
5352.250000	-28.7	1.7	-27.0
5357.250000	-28.7	1.7	-27.0

Measurement Settings

Start Frequency (MHz)	Stop Frequency (MHz)	Pre Measurement	Final Measurement
1000.000000	5150.000000	2	2
5150.000000	5250.000000	2	2
5250.000000	5350.000000	2	2
5350.000000	5470.000000	2	2
5470.000000	5725.000000	2	2
5725.000000	5850.000000	2	2
5850.000000	7000.000000	2	2
7000.000000	18000.000000	2	2
18000.000000	26000.000000	2	2
26000.000000	40000.000000	2	2



Pre Measurement 2

Setting	Instrument Value	Target Value
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	8300	~ 8300
SweepTime	8.300 ms	AUTO
Reference Level	0.000 dBm	AUTO
Attenuation	10.000 dB	10.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	30	30
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off

Emissions in restricted frequency bands (Average) (5320 MHz; 50 MHz)

Customized settings.

Test according to FCC title 47 part 15 §15.407(b), KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 II.G.1 and ANSI C63.10-2013

Result

DUT Frequency (MHz)	Result
5320.000000	PASS

Final measurements

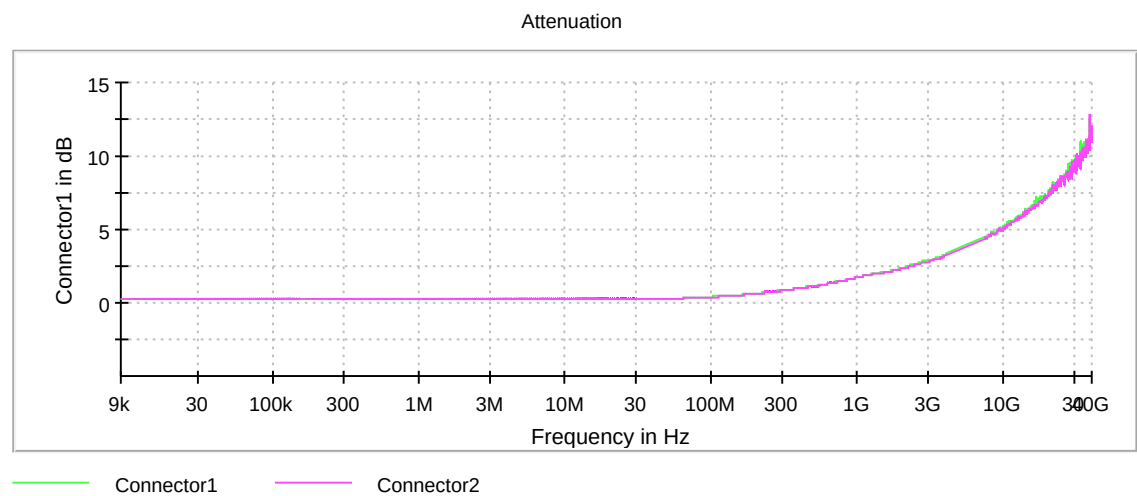
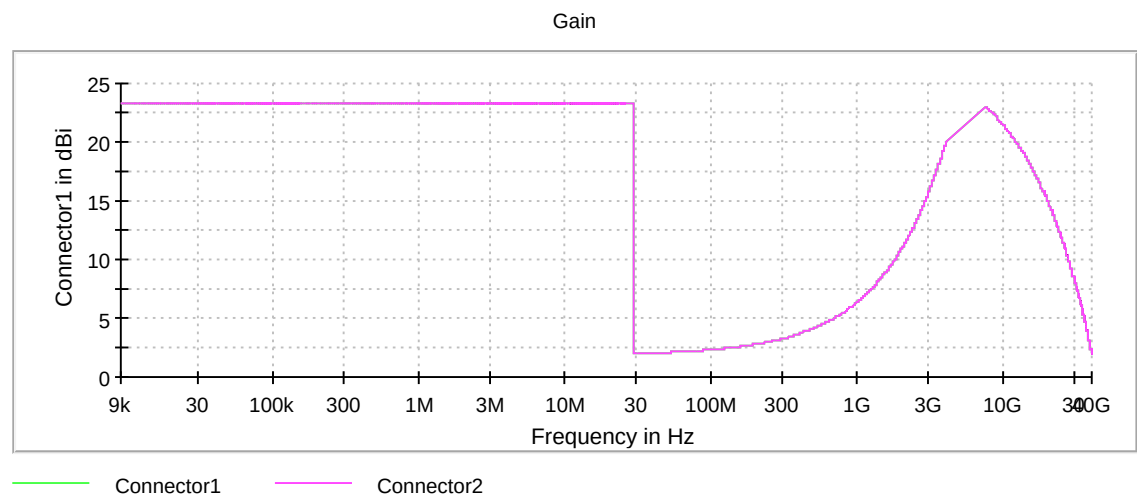
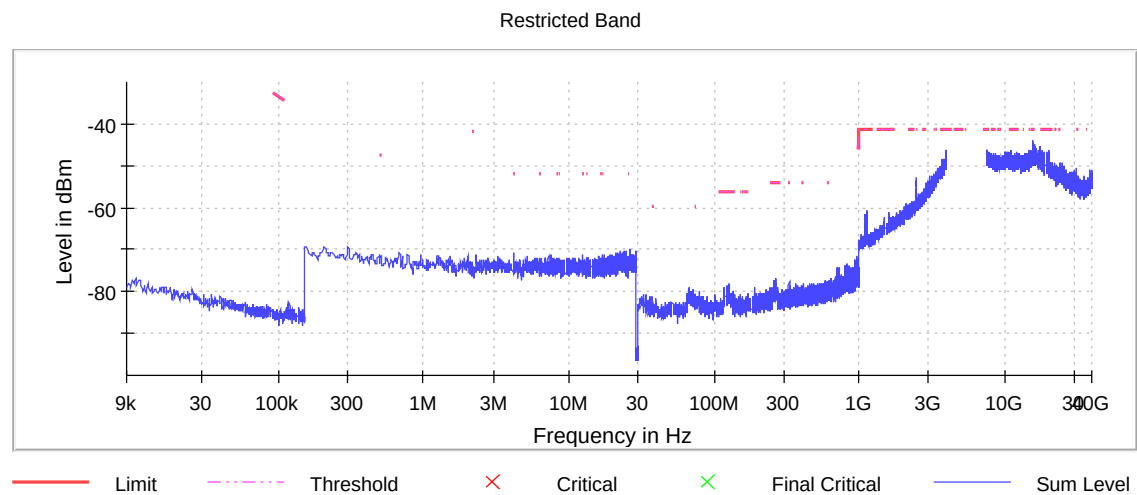
Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result
---	---	---	---	---	---

Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
15819.750000	-43.9	2.7	-41.2
15846.250000	-44.5	3.3	-41.2
15841.250000	-44.8	3.6	-41.2
15852.750000	-44.8	3.6	-41.2
16181.750000	-44.9	3.7	-41.2
15868.250000	-44.9	3.7	-41.2
15870.250000	-45.0	3.8	-41.2
16173.750000	-45.1	3.9	-41.2
15787.250000	-45.1	3.9	-41.2
15841.750000	-45.2	4.0	-41.2
16173.250000	-45.3	4.1	-41.2
15795.750000	-45.3	4.1	-41.2
15904.250000	-45.3	4.1	-41.2
15838.250000	-45.3	4.1	-41.2
15783.750000	-45.4	4.2	-41.2

Measurement Settings

Start Frequency (MHz)	Stop Frequency (MHz)	Pre Measurement	Final Measurement
0.009000	0.090000	1	1
0.090000	0.110000	2	2
0.110000	0.150000	1	1
0.150000	0.490000	1	1
0.490000	30.000000	2	2
30.000000	1000.000000	2	2
1000.000000	4000.000000	1	1
7500.000000	18000.000000	1	1
18000.000000	26000.000000	1	1
26000.000000	40000.000000	1	1



Pre Measurement 1

Setting	Instrument Value	Target Value
RBW	300.000 Hz	<= 300.000 Hz
VBW	1.000 kHz	>= 900.000 Hz
SweepPoints	540	~ 540
SweepTime	6.322 ms	AUTO
Reference Level	-5.000 dBm	AUTO
Attenuation	5.000 dB	5.000 dB
Detector	RMS	RMS
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamplifier	off	off

Pre Measurement 2

Setting	Instrument Value	Target Value
RBW	300.000 Hz	<= 300.000 Hz
VBW	1.000 kHz	>= 900.000 Hz
SweepPoints	133	~ 133
SweepTime	6.312 ms	AUTO
Reference Level	-5.000 dBm	AUTO
Attenuation	5.000 dB	5.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	30	30
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamplifier	off	off

Emissions in restricted frequency bands (Peak) (5320 MHz; 50 MHz)

Customized settings.

Test according to FCC title 47 part 15 §15.407(b), KDB 789033 D02 General U-NII Test Procedures
New Rules v02r01 II.G.1 and ANSI C63.10-2013

Result

DUT Frequency (MHz)	Result
5320.000000	PASS

Final measurements

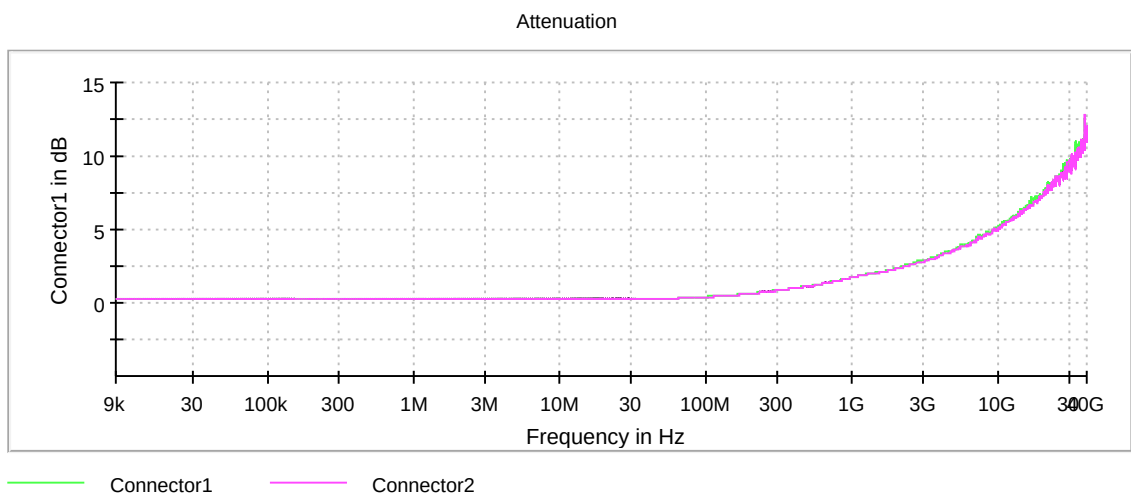
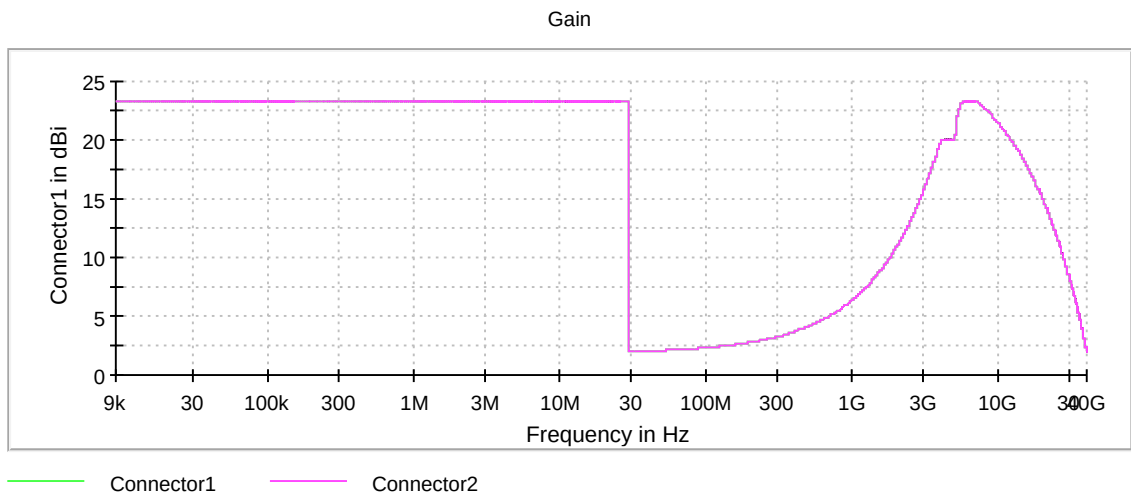
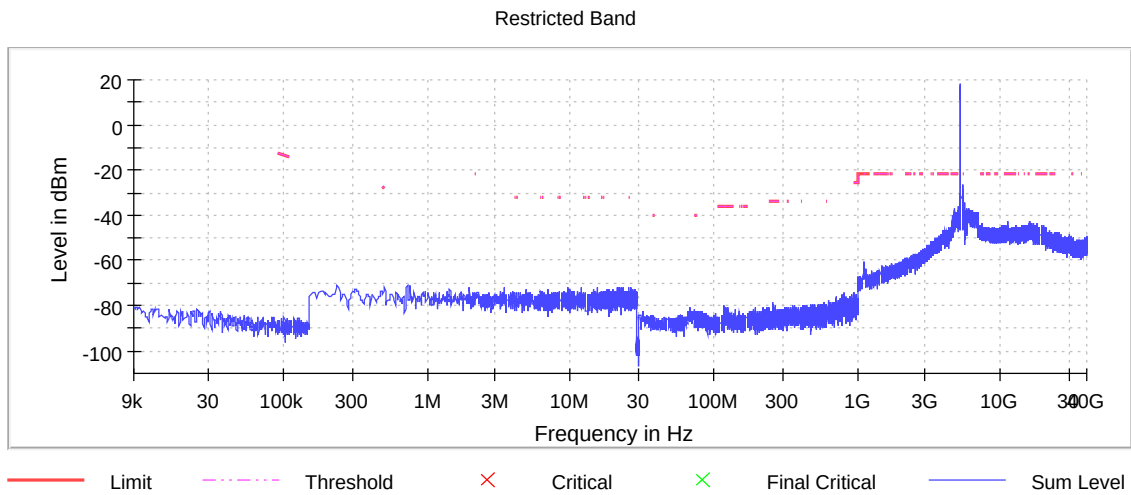
Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result
---	---	---	---	---	---

Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
5352.750000	-26.2	5.0	-21.2
5352.250000	-27.0	5.8	-21.2
5353.250000	-27.4	6.2	-21.2
5356.250000	-28.8	7.6	-21.2
5353.750000	-28.8	7.6	-21.2
5354.250000	-28.9	7.7	-21.2
5355.750000	-29.8	8.6	-21.2
5356.750000	-30.1	8.9	-21.2
5354.750000	-30.5	9.3	-21.2
5364.250000	-30.7	9.5	-21.2
5364.750000	-31.0	9.8	-21.2
5375.250000	-31.2	10.0	-21.2
5355.250000	-31.3	10.1	-21.2
5374.750000	-31.5	10.3	-21.2
5351.750000	-31.6	10.4	-21.2

Measurement Settings

Start Frequency (MHz)	Stop Frequency (MHz)	Pre Measurement	Final Measurement
0.009000	0.150000	1	1
0.150000	30.000000	1	1
30.000000	1000.000000	1	1
1000.000000	5150.000000	1	2
5150.000000	5350.000000	1	2
5350.000000	5470.000000	1	2
5470.000000	5850.000000	1	2
5850.000000	18000.000000	1	2
18000.000000	26000.000000	1	2
26000.000000	40000.000000	1	2

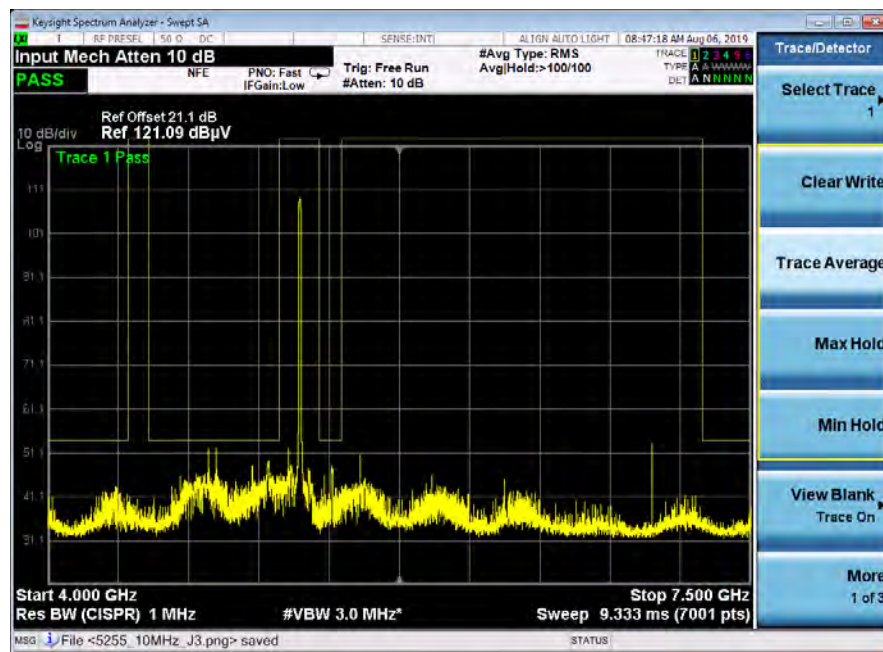


Pre Measurement 1

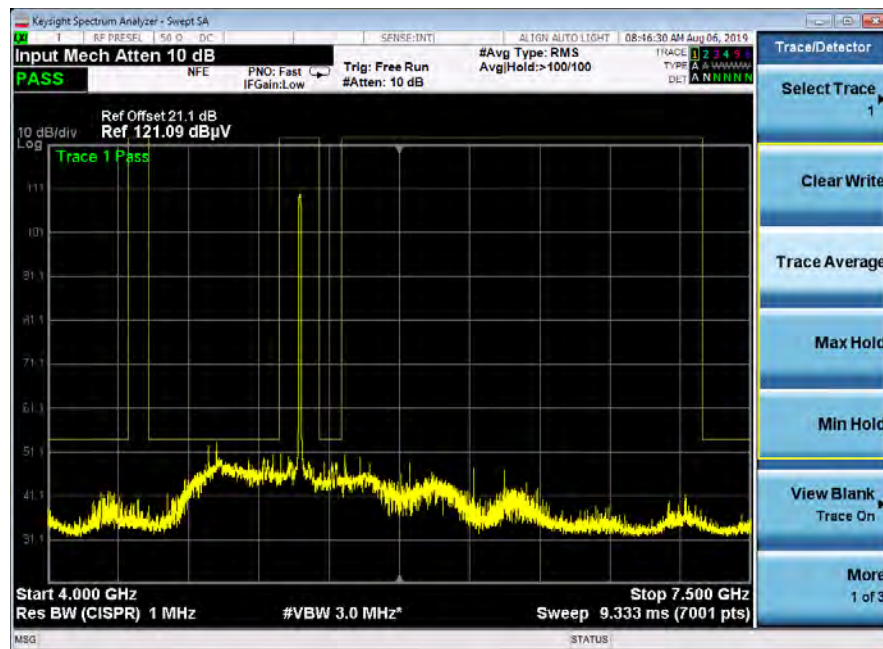
Setting	Instrument Value	Target Value
RBW	300.000 Hz	<= 300.000 Hz
VBW	1.000 kHz	>= 900.000 Hz
SweepPoints	940	~ 940
SweepTime	6.322 ms	AUTO
Reference Level	-5.000 dBm	AUTO
Attenuation	5.000 dB	5.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	3	3
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off

UNII-2A
Conducted Restricted Band Measurements
Between 4 and 7.5 GHz

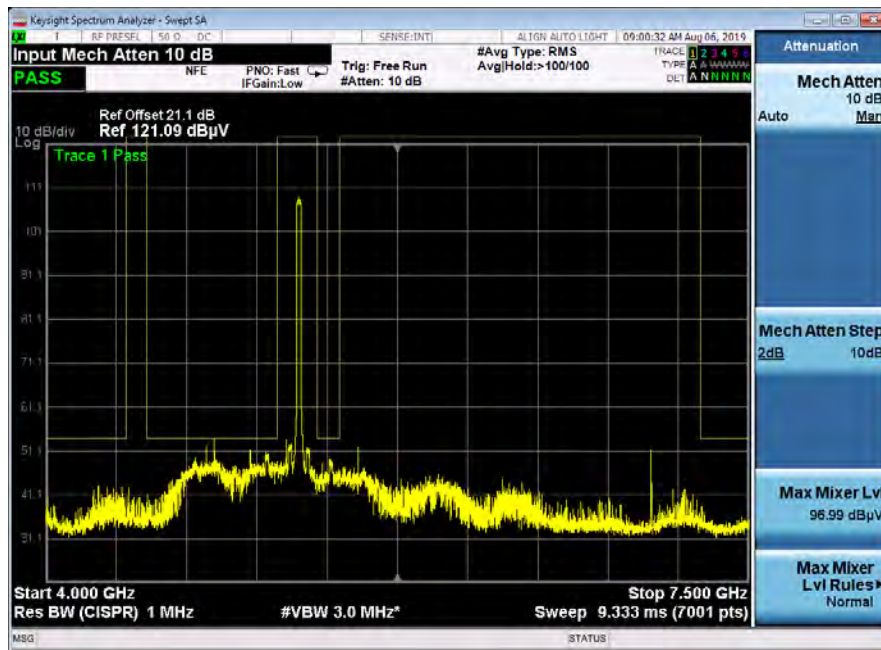
5255 MHz_10 Mhz Channel_J2



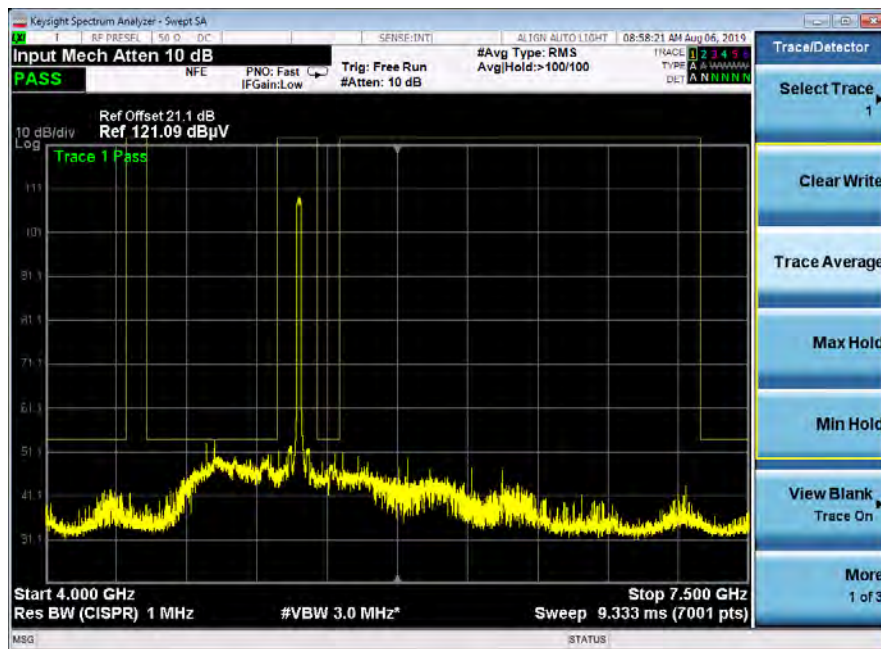
5255 MHz_10 Mhz Channel_J3



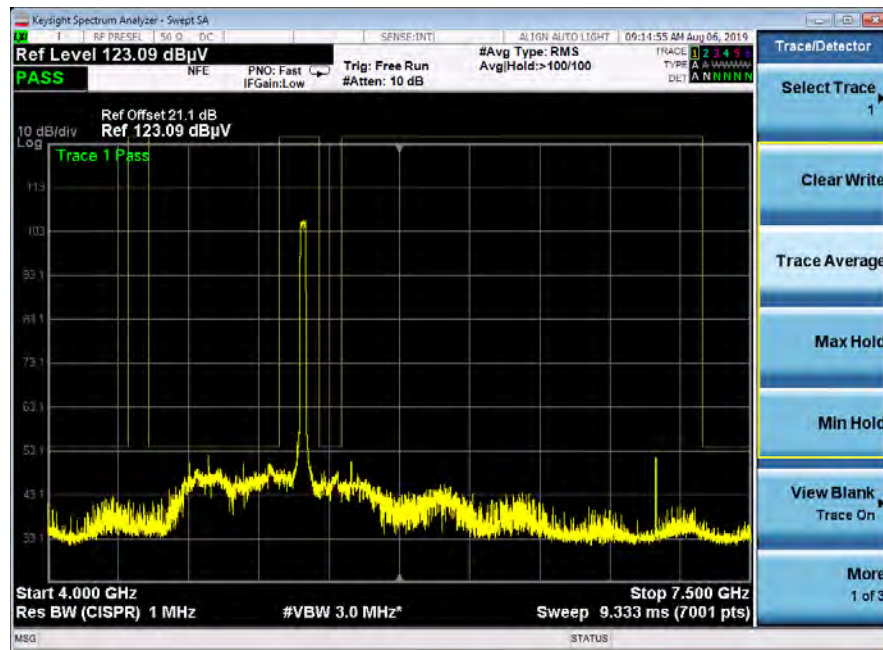
5270 MHz_20 Mhz Channel_J2



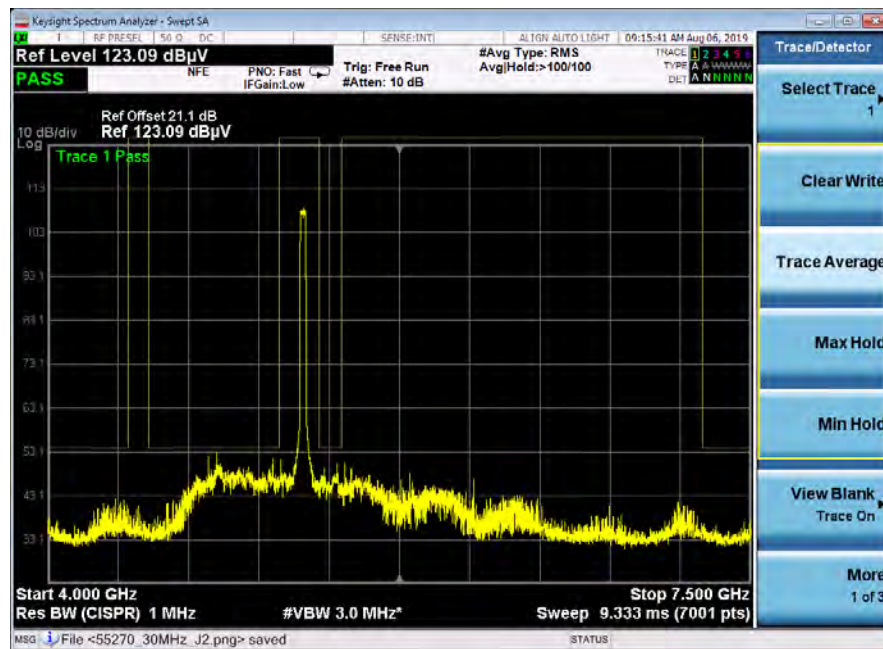
5270 MHz_20 Mhz Channel_J3



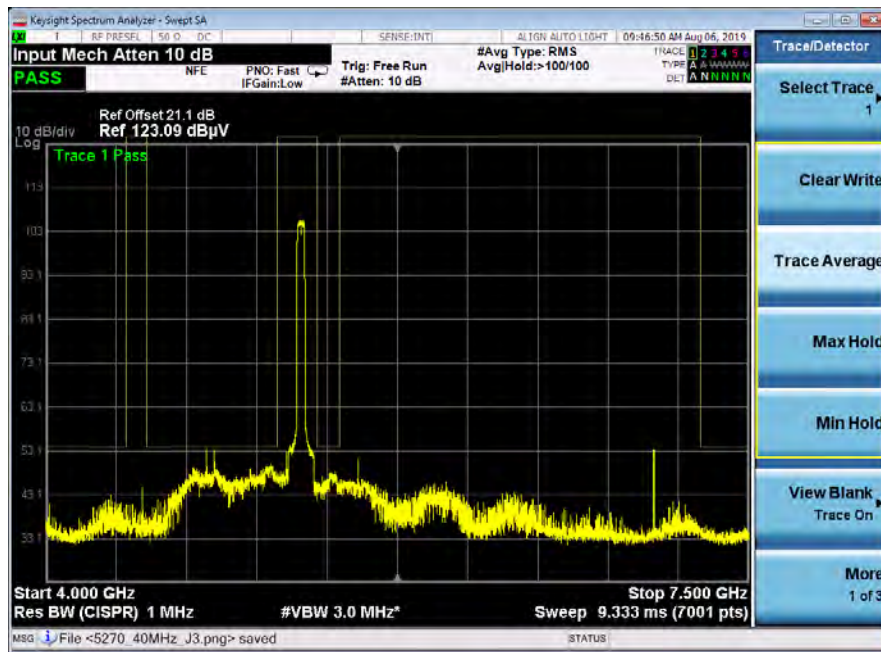
5270 MHz_30 Mhz Channel_J2



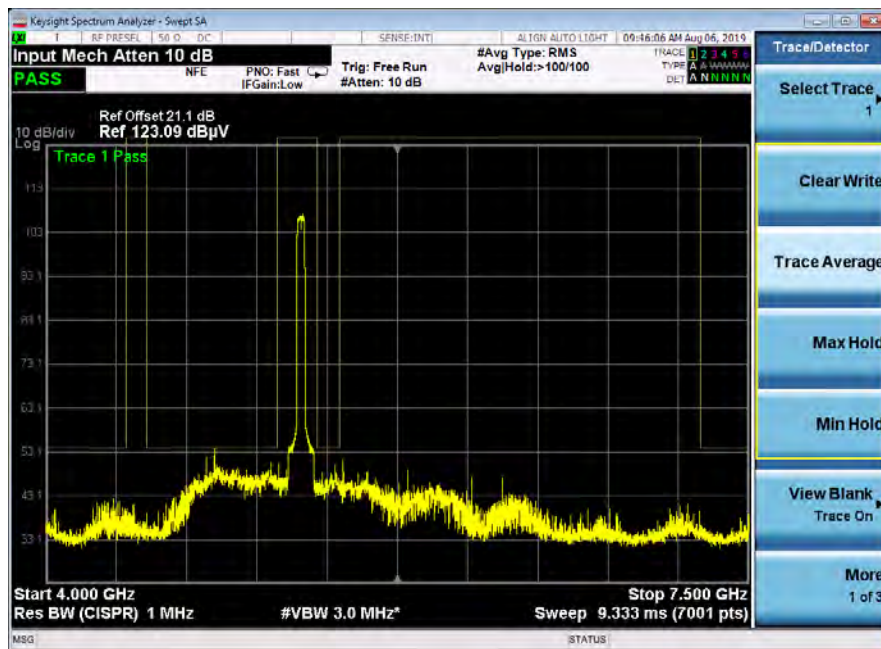
5270 MHz_30 Mhz Channel_J3



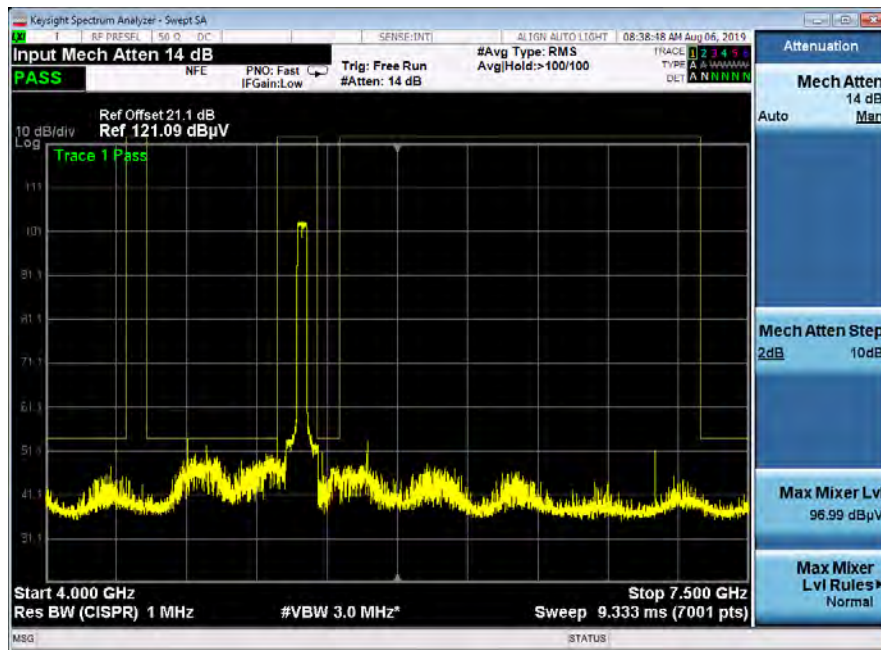
5270 MHz_40 Mhz Channel_J2



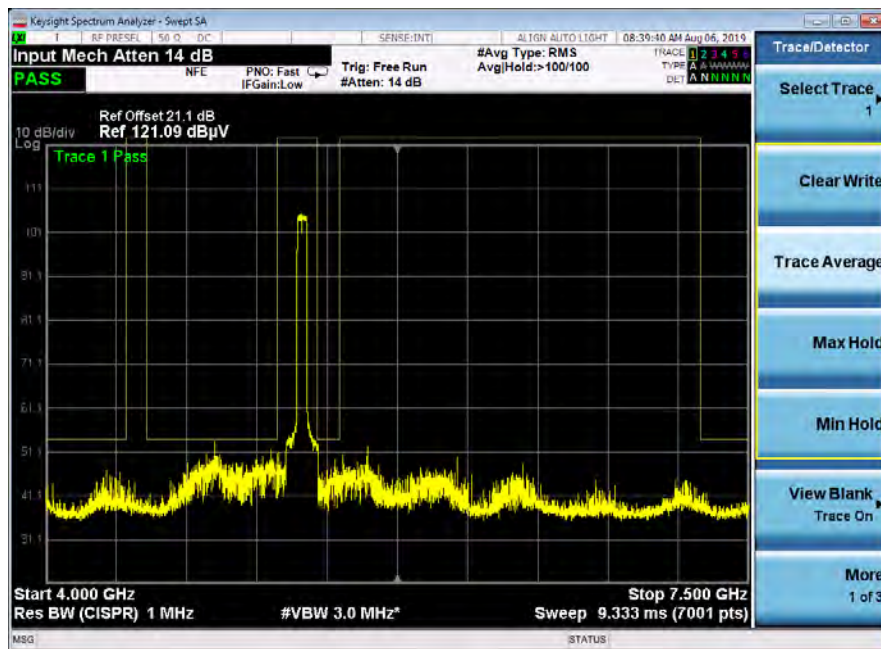
5270 MHz_40 Mhz Channel_J3



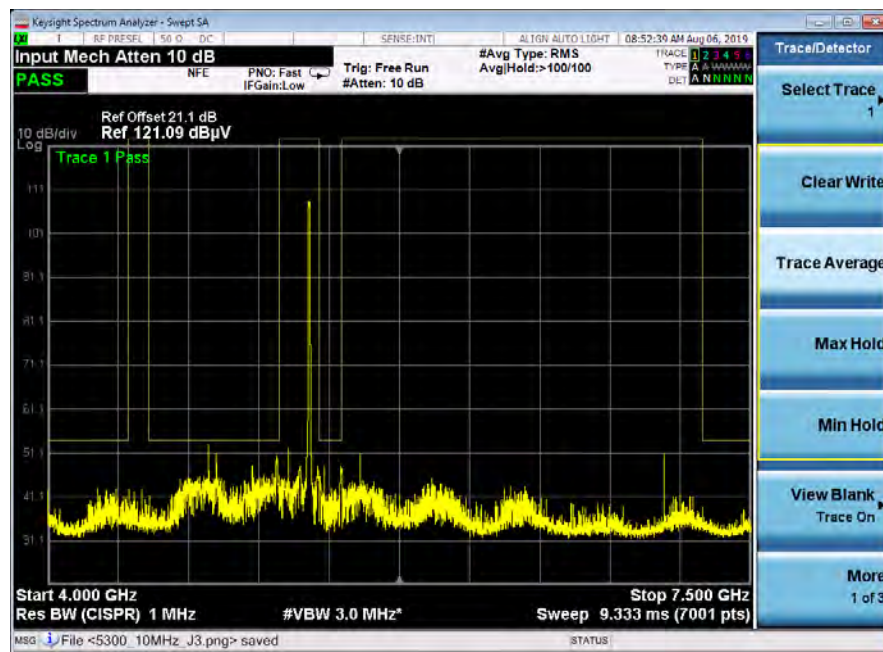
5275 MHz_50 Mhz Channel_J2



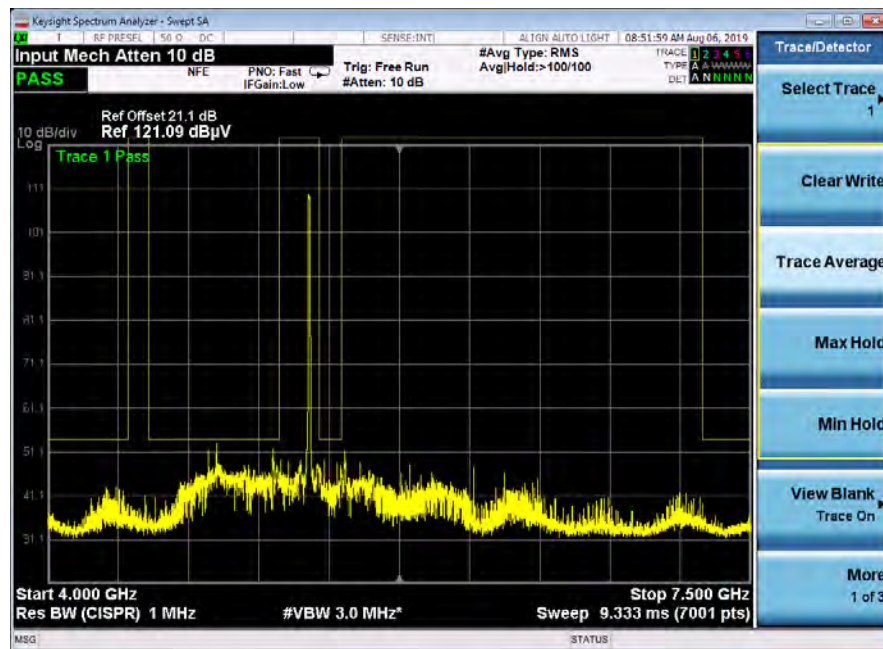
5275 MHz_50 Mhz Channel_J3



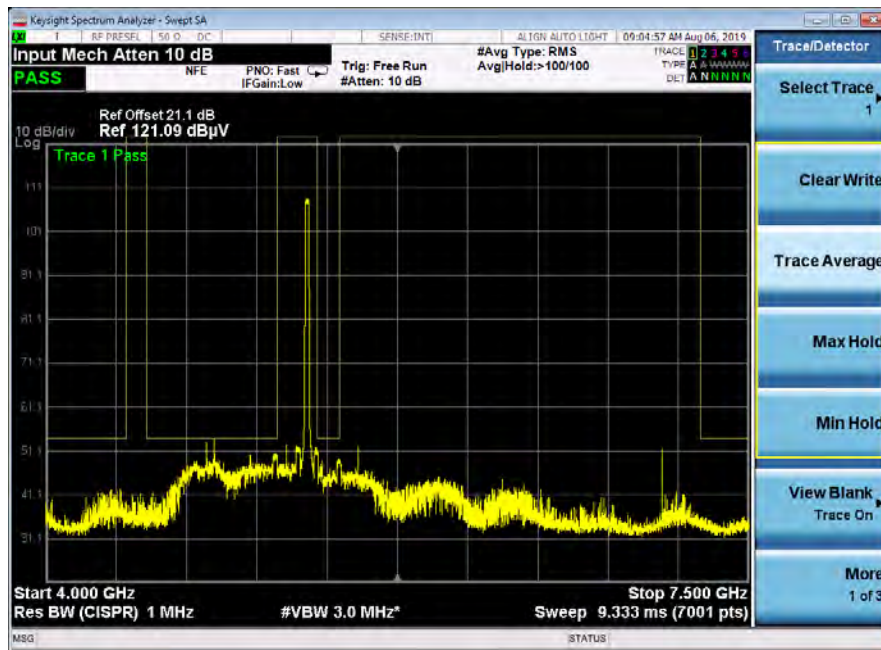
5300 MHz_10 Mhz Channel_J2



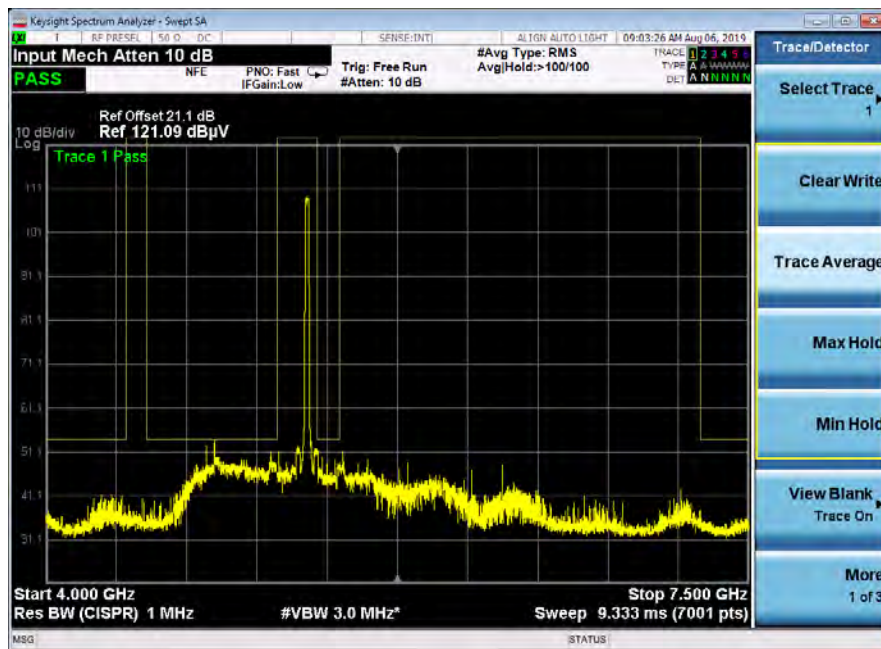
5300 MHz_10 Mhz Channel_J3



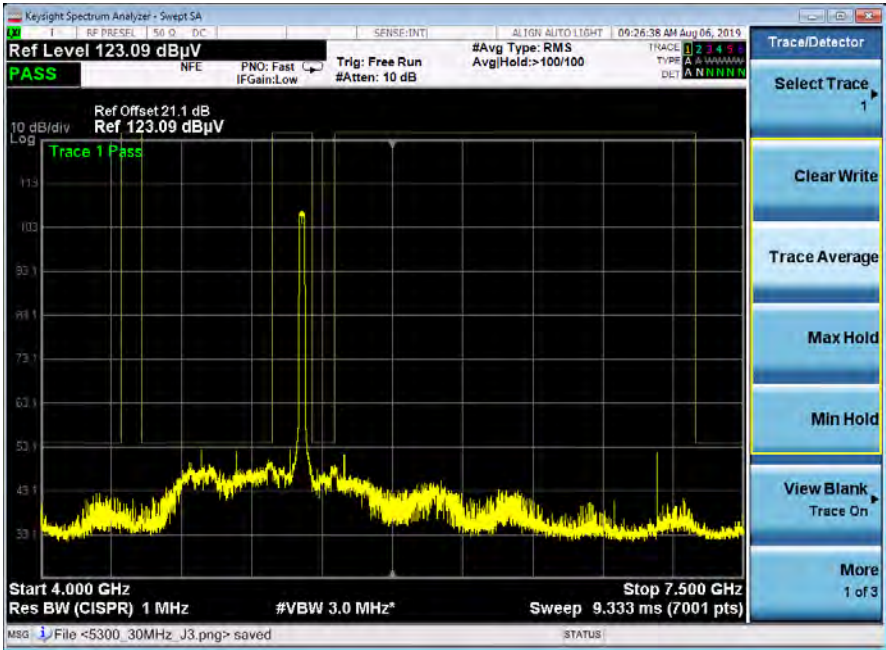
5300 MHz_20 Mhz Channel_J2



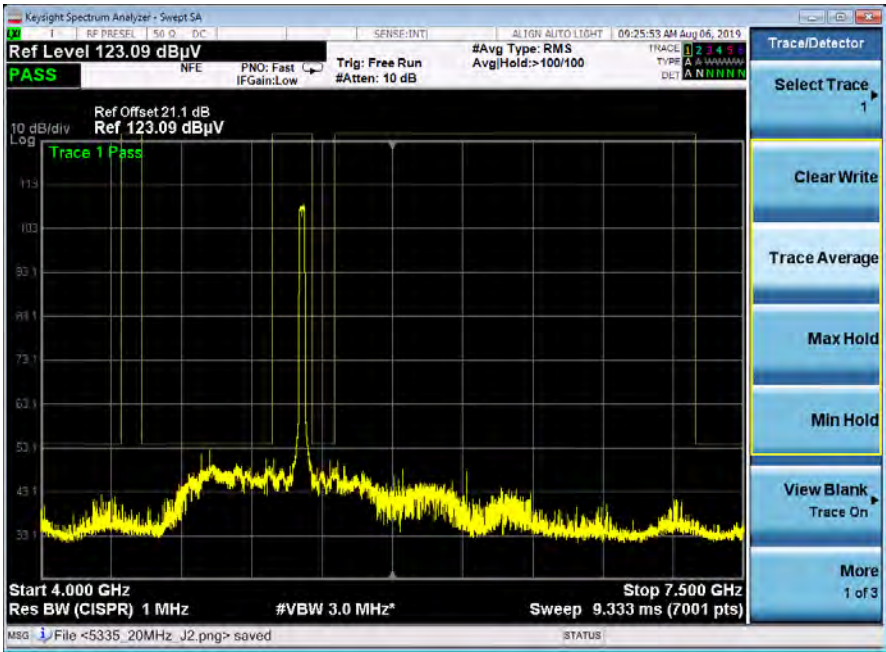
5300 MHz_20 Mhz Channel_J3



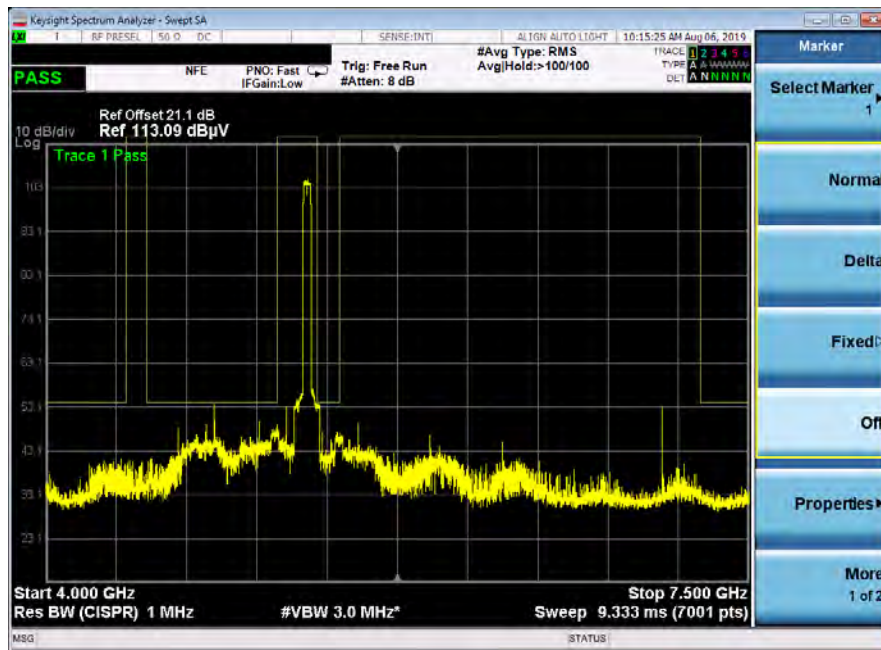
5300 MHz_30 Mhz Channel_J2



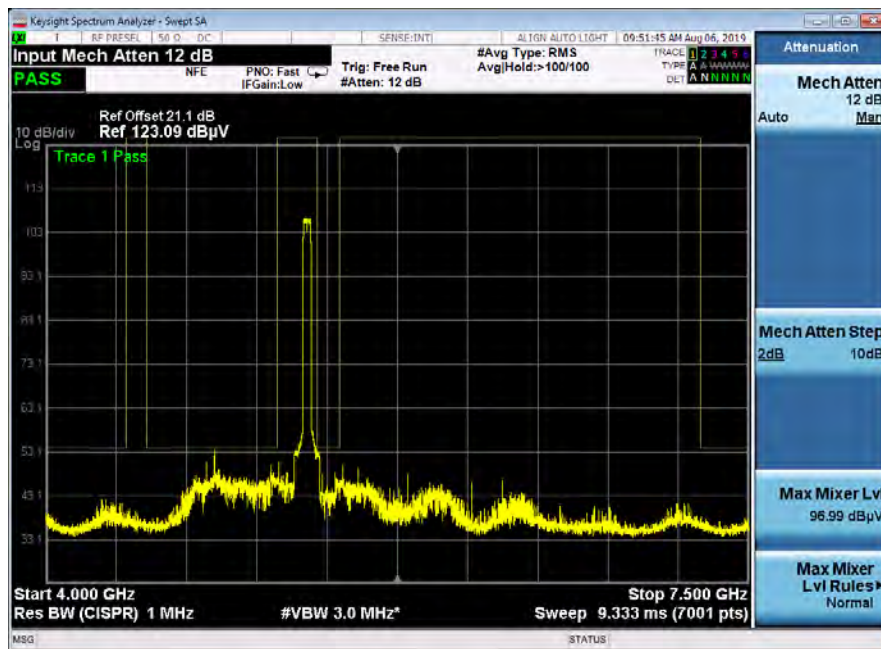
5300 MHz_30 Mhz Channel_J3



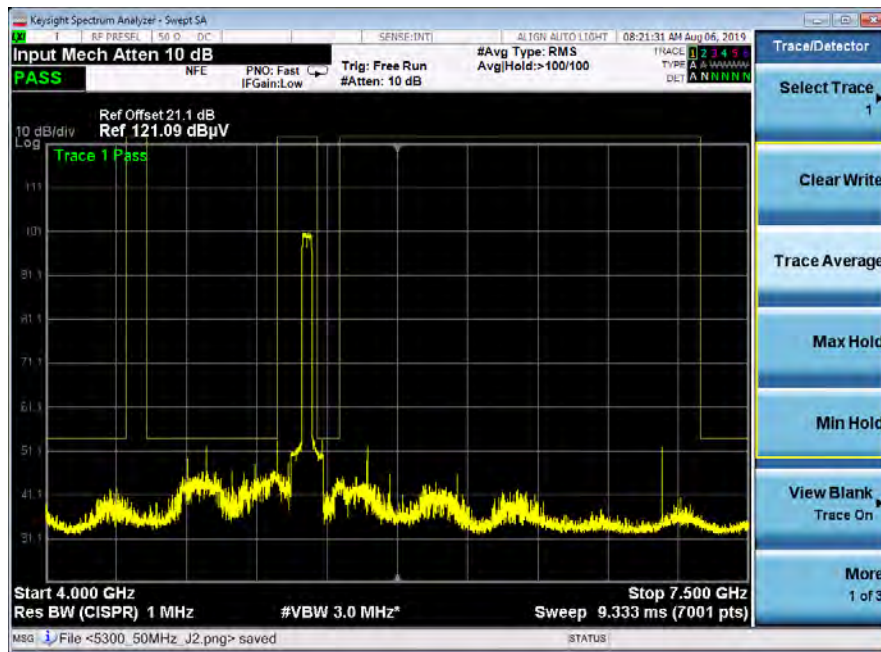
5300 MHz_40 Mhz Channel_J2



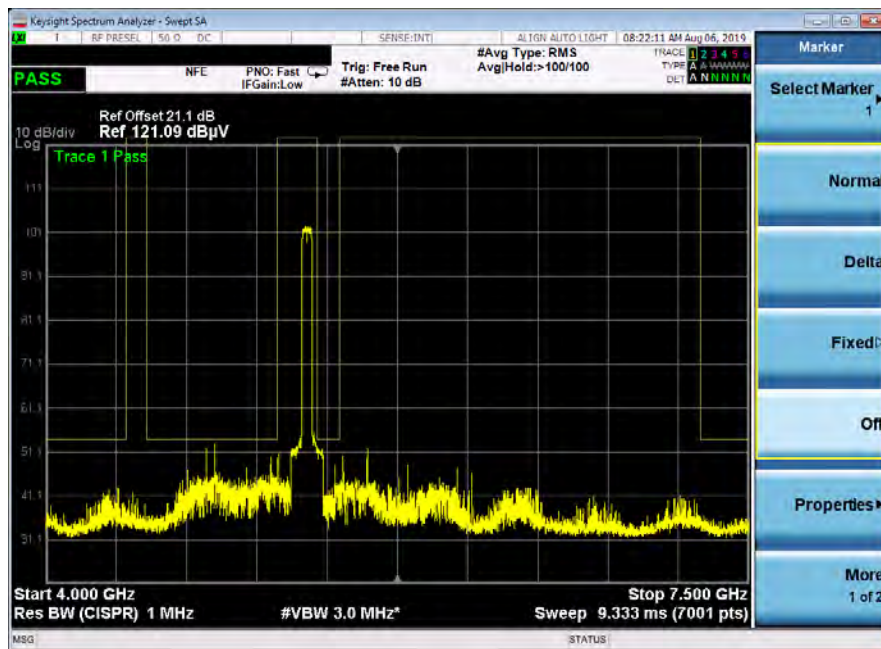
5300 MHz_40 Mhz Channel_J3



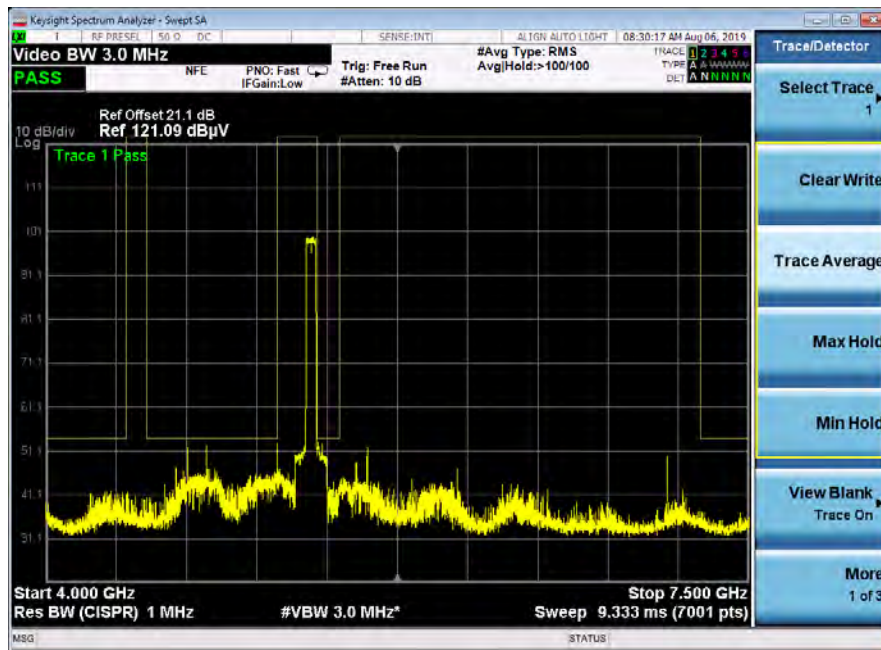
5300 MHz_50 Mhz Channel_J2



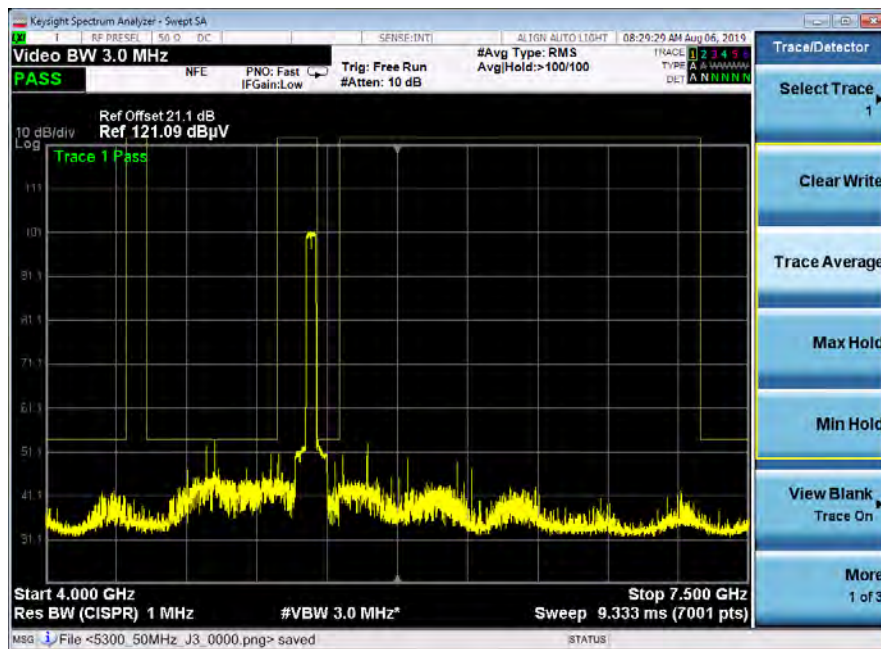
5300 MHz_50 Mhz Channel_J3



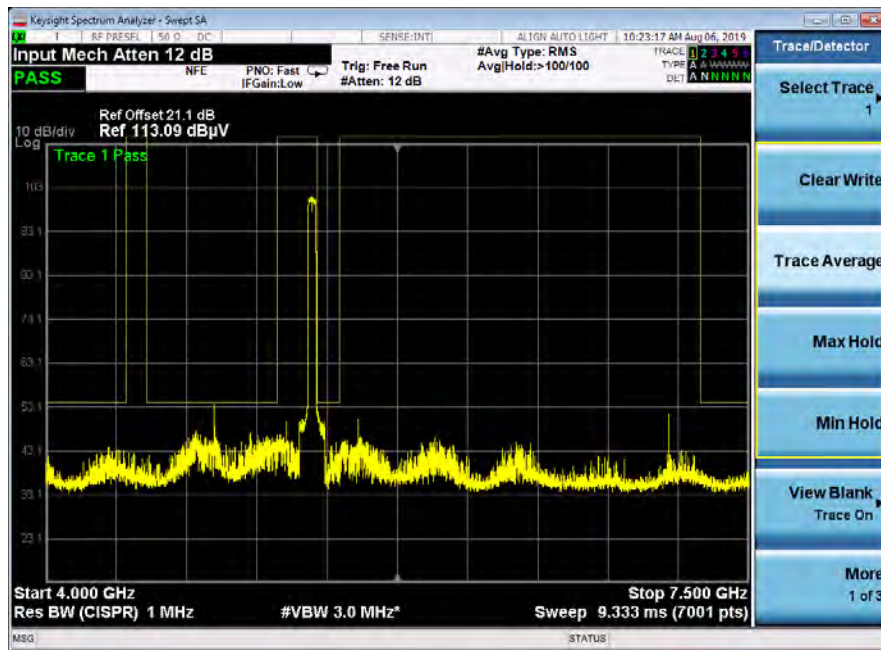
5320 MHz_50 Mhz Channel_J2



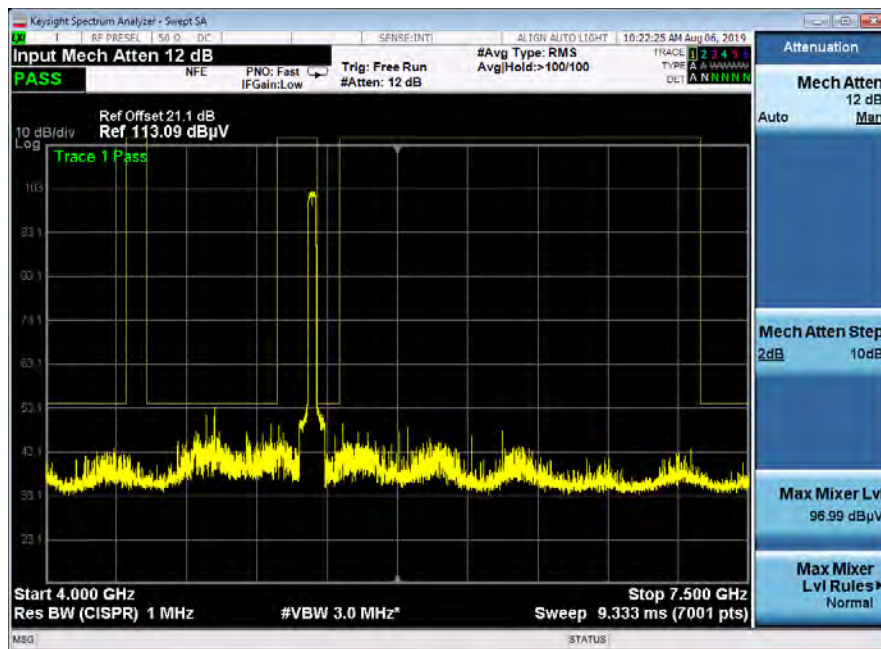
5320 MHz_50 Mhz Channel_J3



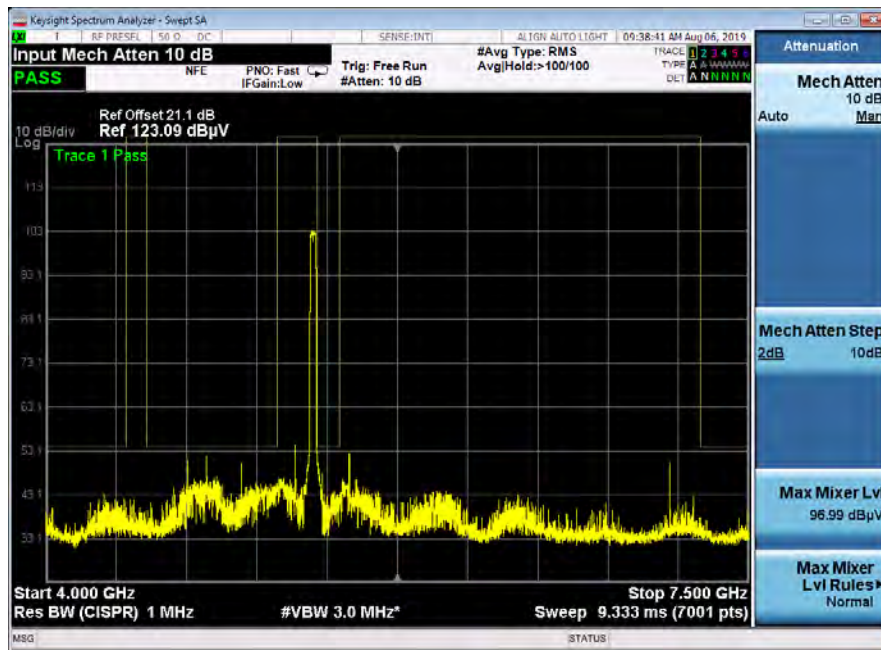
5325 MHz_40 Mhz Channel_J2



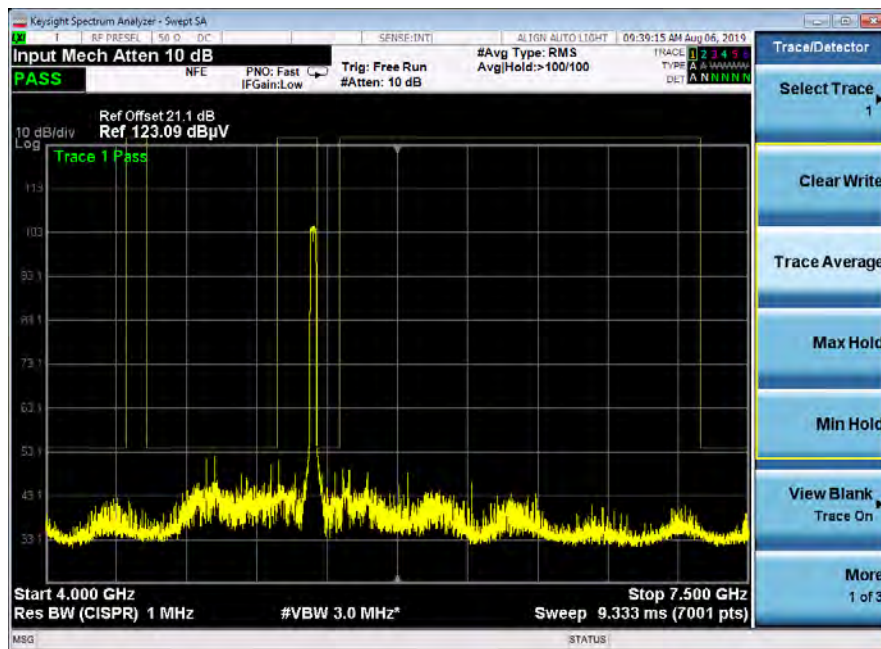
5325 MHz_40 Mhz Channel_J3



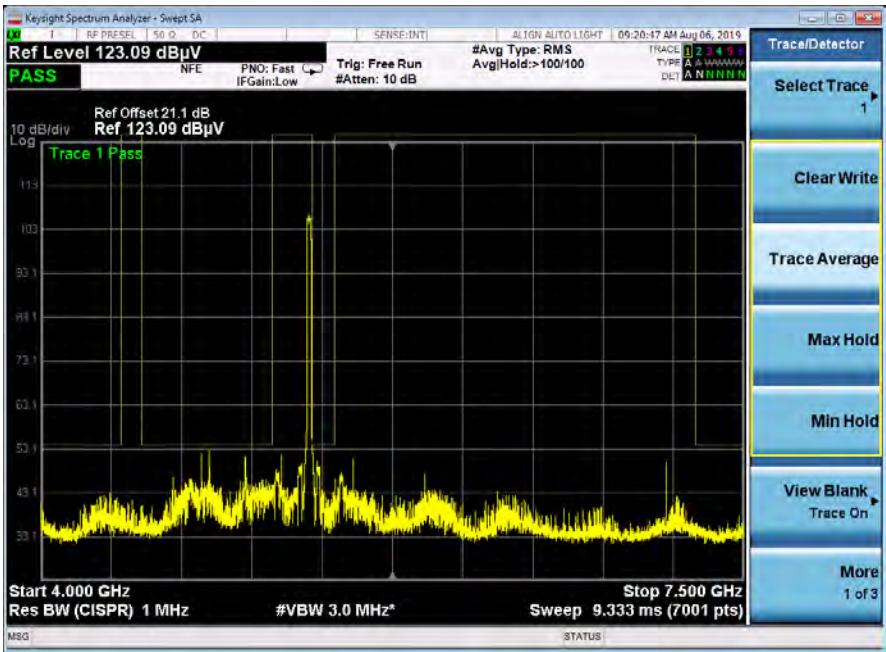
5330 MHz_30 Mhz Channel_J2



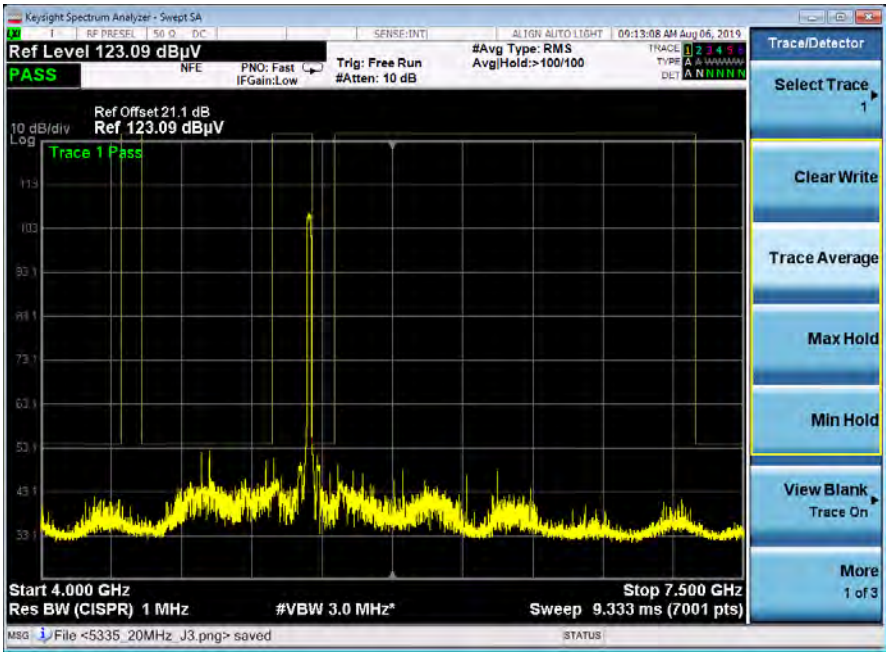
5330 MHz_30 Mhz Channel_J3



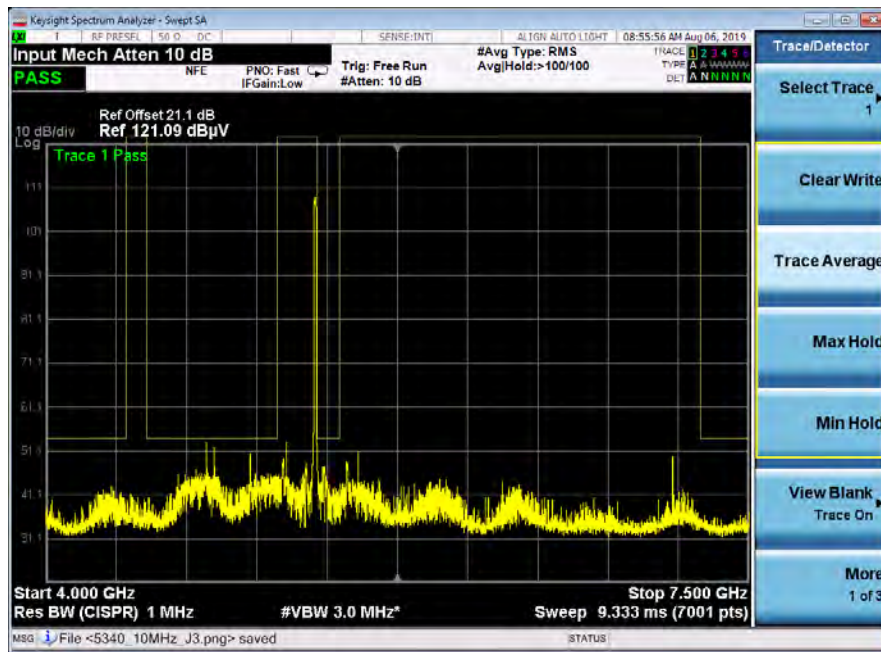
5335 MHz_20 Mhz Channel_J2



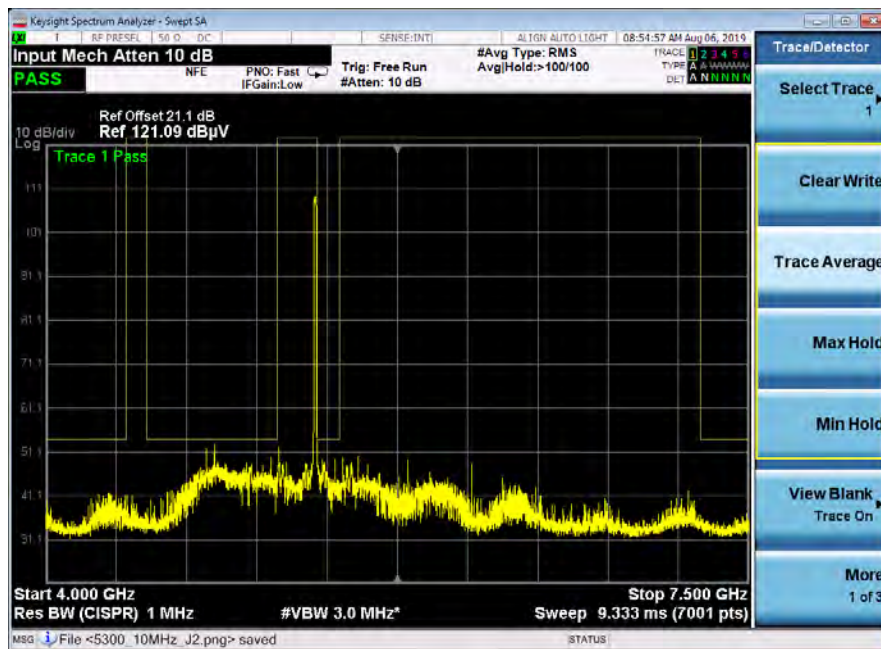
5335 MHz_20 Mhz Channel_J3



5340 MHz_10 Mhz Channel_J2



5340 MHz_10 Mhz Channel_J3



UNII-2C

Summary

Test	Frequency (MHz)	Nominal Power (dBm)	Nominal Bandwidth (MHz)	Result
Emission Bandwidth 26 dB	5480.000	10.0	10.000000	PASS
RF output power	5480.000	10.0	10.000000	PASS
Power Spectral Density	5480.000	10.0	10.000000	PASS
Occupied Channel Bandwidth 99%	5480.000	10.0	10.000000	PASS
Frequency stability	5480.000	10.0	10.000000	PASS
Tx Spurious Emission	5480.000	10.0	10.000000	PASS
Emissions in restricted frequency bands (Average)	5480.000	10.0	10.000000	PASS
Emissions in restricted frequency bands (Peak)	5480.000	10.0	10.000000	PASS
Emission Bandwidth 26 dB	5600.000	10.0	10.000000	PASS
RF output power	5600.000	10.0	10.000000	PASS
Power Spectral Density	5600.000	10.0	10.000000	PASS
Occupied Channel Bandwidth 99%	5600.000	10.0	10.000000	PASS
Emissions in restricted frequency bands (Average)	5600.000	10.0	10.000000	PASS
Emissions in restricted frequency bands (Peak)	5600.000	10.0	10.000000	PASS
Emission Bandwidth 26 dB	5715.000	10.0	10.000000	PASS
RF output power	5715.000	10.0	10.000000	PASS
Power Spectral Density	5715.000	10.0	10.000000	PASS
Occupied Channel Bandwidth 99%	5715.000	10.0	10.000000	PASS
Frequency stability	5715.000	10.0	10.000000	PASS
Tx Spurious Emission	5715.000	10.0	10.000000	PASS
Emissions in restricted frequency bands (Average)	5715.000	10.0	10.000000	PASS
Emissions in restricted frequency bands (Peak)	5715.000	10.0	10.000000	PASS
Emission Bandwidth 26 dB	5485.000	10.0	20.000000	PASS
RF output power	5485.000	10.0	20.000000	PASS
Power Spectral Density	5485.000	10.0	20.000000	PASS
Occupied Channel Bandwidth 99%	5485.000	10.0	20.000000	PASS
Tx Spurious Emission	5485.000	10.0	20.000000	PASS
Emissions in restricted frequency bands (Average)	5485.000	10.0	20.000000	PASS
Emissions in restricted frequency bands (Peak)	5485.000	10.0	20.000000	PASS
Emission Bandwidth 26 dB	5600.000	10.0	20.000000	PASS
RF output power	5600.000	10.0	20.000000	PASS
Power Spectral Density	5600.000	10.0	20.000000	PASS
Occupied Channel Bandwidth 99%	5600.000	10.0	20.000000	PASS
Emissions in restricted frequency bands (Average)	5600.000	10.0	20.000000	PASS
Emissions in restricted frequency bands (Peak)	5600.000	10.0	20.000000	PASS
Emission Bandwidth 26 dB	5710.000	10.0	20.000000	PASS
RF output power	5710.000	10.0	20.000000	PASS
Power Spectral Density	5710.000	10.0	20.000000	PASS
Occupied Channel Bandwidth 99%	5710.000	10.0	20.000000	PASS
Tx Spurious Emission	5710.000	10.0	20.000000	PASS
Emissions in restricted frequency bands (Average)	5710.000	10.0	20.000000	PASS
Emissions in restricted frequency bands (Peak)	5710.000	10.0	20.000000	PASS
Emission Bandwidth 26 dB	5490.000	10.0	30.000000	PASS
RF output power	5490.000	10.0	30.000000	PASS
Power Spectral Density	5490.000	10.0	30.000000	PASS
Occupied Channel Bandwidth 99%	5490.000	10.0	30.000000	PASS
Tx Spurious Emission	5490.000	10.0	30.000000	PASS
Emissions in restricted frequency bands (Average)	5490.000	10.0	30.000000	PASS
Emissions in restricted frequency bands (Peak)	5490.000	10.0	30.000000	PASS
Emission Bandwidth 26 dB	5600.000	10.0	30.000000	PASS
RF output power	5600.000	10.0	30.000000	PASS
Power Spectral Density	5600.000	10.0	30.000000	PASS
Occupied Channel Bandwidth 99%	5600.000	10.0	30.000000	PASS
Emissions in restricted frequency bands (Average)	5600.000	10.0	30.000000	PASS
Emissions in restricted frequency bands (Peak)	5600.000	10.0	30.000000	PASS
Emission Bandwidth 26 dB	5705.000	10.0	30.000000	PASS
RF output power	5705.000	10.0	30.000000	PASS
Power Spectral Density	5705.000	10.0	30.000000	PASS
Occupied Channel Bandwidth 99%	5705.000	10.0	30.000000	PASS
Tx Spurious Emission	5705.000	10.0	30.000000	PASS
Emissions in restricted frequency bands (Average)	5705.000	10.0	30.000000	PASS

Test	Frequency (MHz)	Nominal Power (dBm)	Nominal Bandwidth (MHz)	Result
Emissions in restricted frequency bands (Peak)	5705.000	10.0	30.000000	PASS
Emission Bandwidth 26 dB	5495.000	10.0	40.000000	PASS
RF output power	5495.000	10.0	40.000000	PASS
Power Spectral Density	5495.000	10.0	40.000000	PASS
Occupied Channel Bandwidth 99%	5495.000	10.0	40.000000	PASS
Tx Spurious Emission	5495.000	10.0	40.000000	PASS
Emissions in restricted frequency bands (Average)	5495.000	10.0	40.000000	PASS
Emissions in restricted frequency bands (Peak)	5495.000	10.0	40.000000	PASS
Emission Bandwidth 26 dB	5600.000	10.0	40.000000	PASS
RF output power	5600.000	10.0	40.000000	PASS
Power Spectral Density	5600.000	10.0	40.000000	PASS
Occupied Channel Bandwidth 99%	5600.000	10.0	40.000000	PASS
Emissions in restricted frequency bands (Average)	5600.000	10.0	40.000000	PASS
Emissions in restricted frequency bands (Peak)	5600.000	10.0	40.000000	PASS
Emission Bandwidth 26 dB	5705.000	10.0	40.000000	PASS
RF output power	5705.000	10.0	40.000000	PASS
Power Spectral Density	5705.000	10.0	40.000000	PASS
Occupied Channel Bandwidth 99%	5705.000	10.0	40.000000	PASS
Tx Spurious Emission	5705.000	10.0	40.000000	PASS
Emissions in restricted frequency bands (Average)	5705.000	10.0	40.000000	PASS
Emissions in restricted frequency bands (Peak)	5705.000	10.0	40.000000	PASS
Emission Bandwidth 26 dB	5500.000	10.0	50.000000	PASS
RF output power	5500.000	10.0	50.000000	PASS
Power Spectral Density	5500.000	10.0	50.000000	PASS
Occupied Channel Bandwidth 99%	5500.000	10.0	50.000000	PASS
Tx Spurious Emission	5500.000	10.0	50.000000	PASS
Emissions in restricted frequency bands (Average)	5500.000	10.0	50.000000	PASS
Emissions in restricted frequency bands (Peak)	5500.000	10.0	50.000000	PASS
Emission Bandwidth 26 dB	5600.000	10.0	50.000000	PASS
RF output power	5600.000	10.0	50.000000	PASS
Power Spectral Density	5600.000	10.0	50.000000	PASS
Occupied Channel Bandwidth 99%	5600.000	10.0	50.000000	PASS
Emissions in restricted frequency bands (Average)	5600.000	10.0	50.000000	PASS
Emissions in restricted frequency bands (Peak)	5600.000	10.0	50.000000	PASS
Emission Bandwidth 26 dB	5690.000	10.0	50.000000	PASS
RF output power	5690.000	10.0	50.000000	PASS
Power Spectral Density	5690.000	10.0	50.000000	PASS
Occupied Channel Bandwidth 99%	5690.000	10.0	50.000000	PASS
Tx Spurious Emission	5690.000	10.0	50.000000	PASS
Emissions in restricted frequency bands (Average)	5690.000	10.0	50.000000	PASS
Emissions in restricted frequency bands (Peak)	5690.000	10.0	50.000000	PASS

Emission Bandwidth 26 dB (5480 MHz; 10 MHz)

Customized settings.

Test according to FCC title 47 part 15 §15.407(a),(e), KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 D and ANSI C63.10-2013

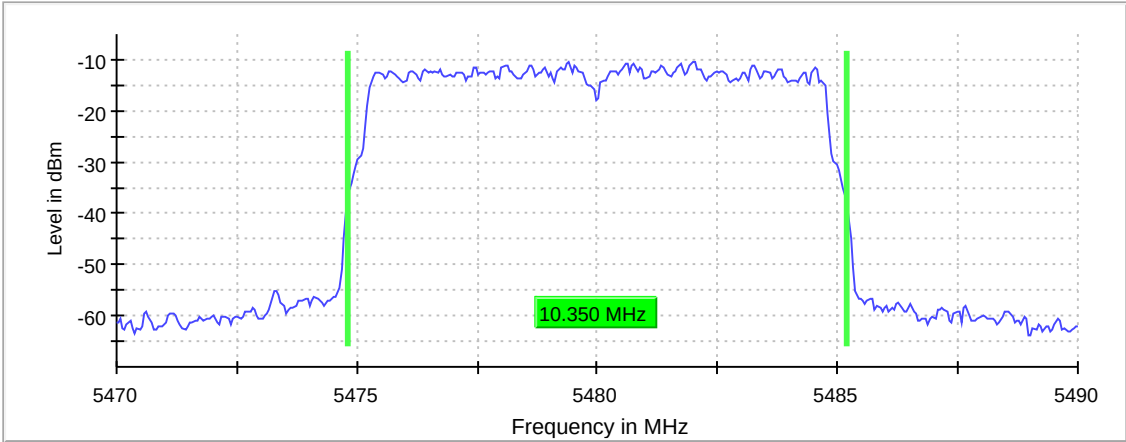
26 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5480.000000	10.350000	---	---	5474.825000	5485.175000

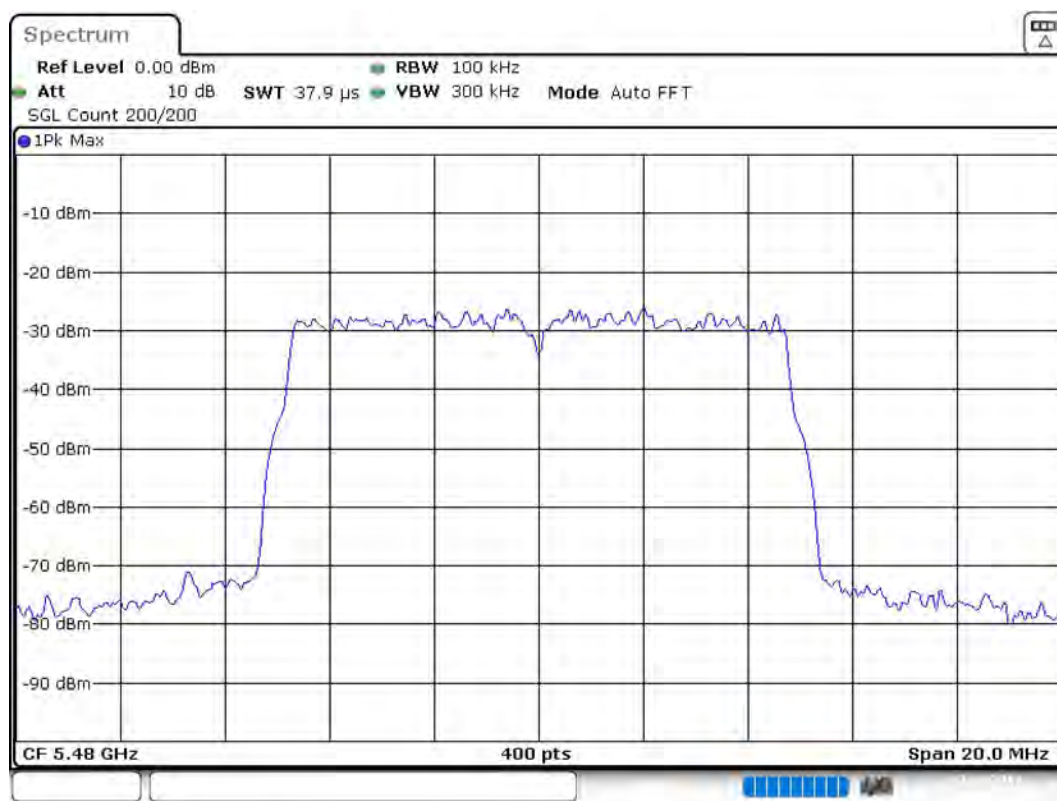
(continuation of the "26 dB Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
5480.000000	-10.3	PASS

26 dB Bandwidth



Bandwidth



Date: 2.AUG.2019 00:22:10

Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.47000 GHz	5.47000 GHz
Stop Frequency	5.49000 GHz	5.49000 GHz
Span	20.000 MHz	20.000 MHz
RBW	100.000 kHz	~ 100.000 kHz
VBW	300.000 kHz	>= 300.000 kHz
SweepPoints	400	~ 400
Sweeptime	37.891 μ s	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	10.000 dB	0.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off

RF output power (5480 MHz; 10 MHz)

Customized settings.

Test according to FCC title 47 part 15 §15.407(a), KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 II.E and ANSI C63.10-2013

Result

DUT Frequency (MHz)	Gated RMS (dBm)	Limit Max (dBm)	Gated EIRP (dBm)	DutyCycle (%)	Result
5480.000000	27.7	---	27.7	98.356	PASS

Power Spectral Density (5480 MHz; 10 MHz)

Customized settings.

Test according to FCC title 47 part 15 §15.407(a), KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 II.F and ANSI C63.10-2013

Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
5480.000000	5477.821782	-6.930	-6.0	PASS

Ports

Port	Duty Cycle (%)
1	0.000
2	0.000

Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.47500 GHz	5.47500 GHz
Stop Frequency	5.48500 GHz	5.48500 GHz
Span	10.000 MHz	10.000 MHz
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	101	~ 20
SweepTime	2.020 ms	2.020 ms
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	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off

Occupied Channel Bandwidth 99% (5480 MHz; 10 MHz)

Customized settings.

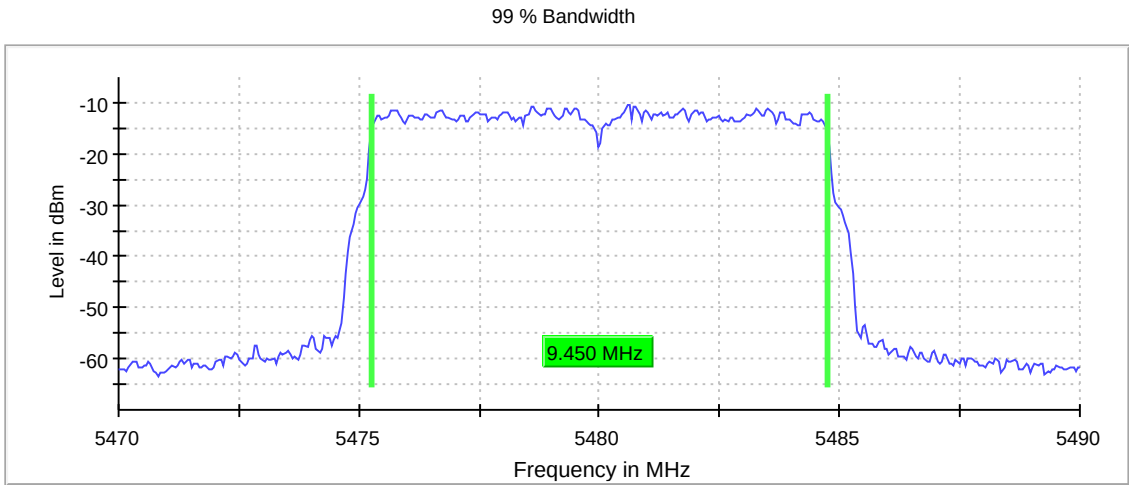
Test according to FCC title 47 part 15 §15.407(a),(e), KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 D and ANSI C63.10-2013

99 % Bandwidth

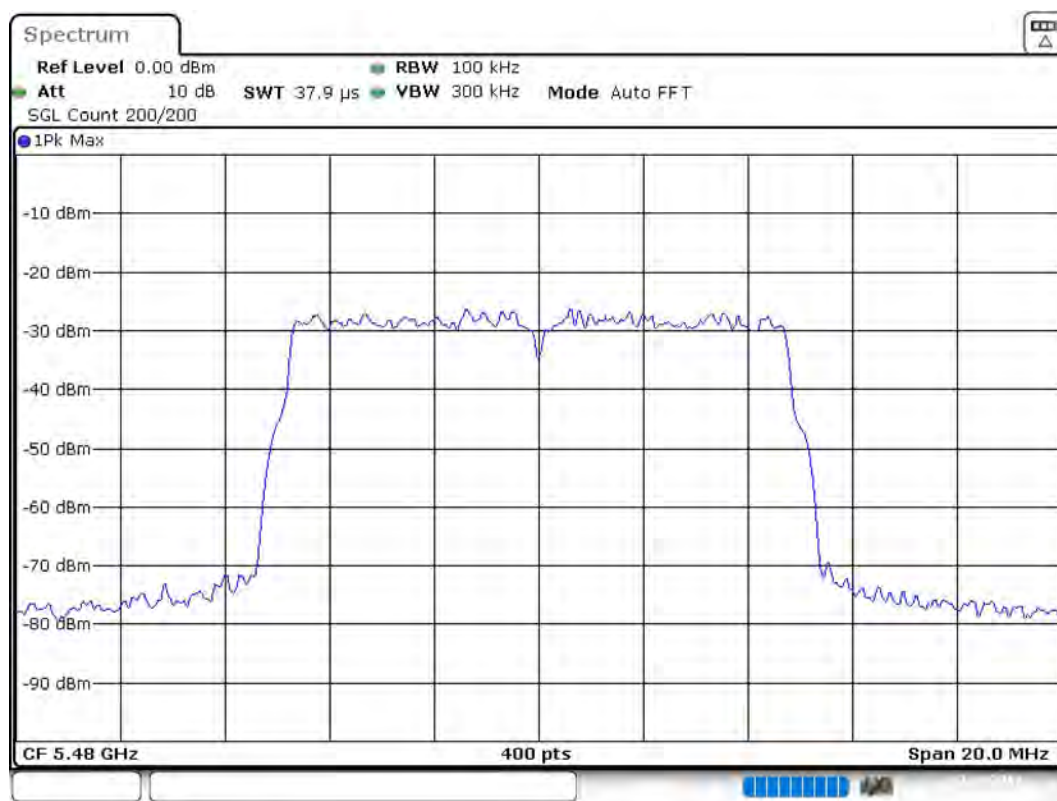
DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5480.000000	9.450000	---	---	5475.275000	5484.725000

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

DUT Frequency (MHz)	Result
5480.000000	PASS



Bandwidth



Date: 2.AUG.2019 00:23:01

Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.47000 GHz	5.47000 GHz
Stop Frequency	5.49000 GHz	5.49000 GHz
Span	20.000 MHz	20.000 MHz
RBW	100.000 kHz	≥ 100.000 kHz
VBW	300.000 kHz	≥ 300.000 kHz
SweepPoints	400	~ 400
Sweeptime	37.891 μ s	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	10.000 dB	0.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off

Frequency stability (5480 MHz; 10 MHz)

Test according to FCC title 47 part 15 §15.407(g), KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 A.3 and ANSI C63.10-2013

Result

DUT Frequency (MHz)	Frequency (MHz)	Difference (ppm)	Frequency Difference (kHz)	Limit Min (MHz)	Limit Max (MHz)	Result
5480.000000	5479.993001	1.277	-6.999000	---	---	PASS

Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.47500 GHz	5.47500 GHz
Stop Frequency	5.48500 GHz	5.48500 GHz
Span	10.000 MHz	10.000 MHz
RBW	10.000 kHz	<= 10.000 kHz
VBW	30.000 kHz	>= 30.000 kHz
SweepPoints	10001	~ 10001
SweepTime	568.782 µs	AUTO
Reference Level	20.000 dBm	20.000 dBm
Attenuation	40.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	50	50
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	1.00 dB	1.00 dB
Run	15 / max. 150	max. 150
Stable	1 / 1	1
Max Stable Difference	0.89 dB	1.00 dB

Tx Spurious Emission (5480 MHz; 10 MHz)

Customized settings.

Test according to FCC title 47 part 15 §15.407(b), KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 II.G.4&5 and ANSI C63.10-2013

Result

DUT Frequency (MHz)	Result
5480.000000	PASS

Final measurements

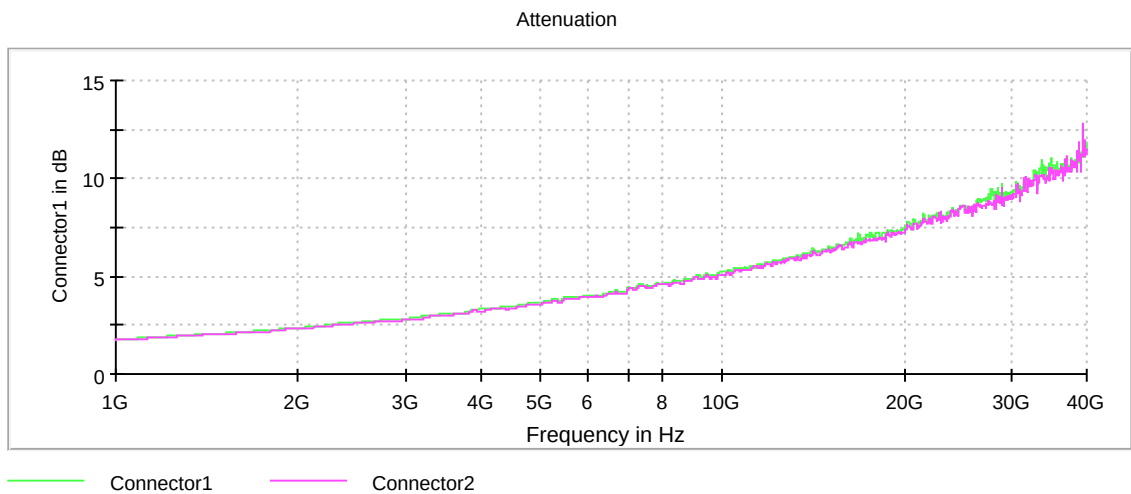
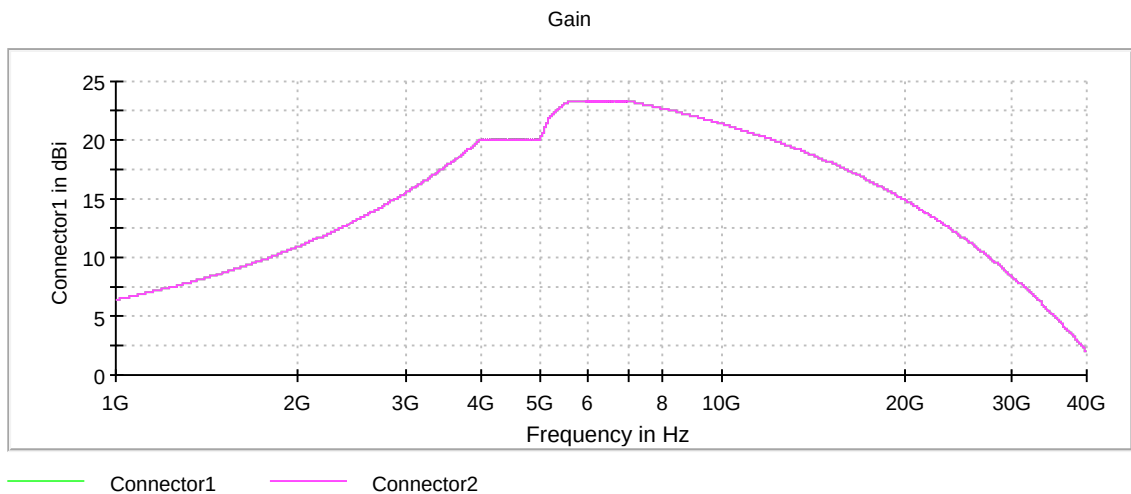
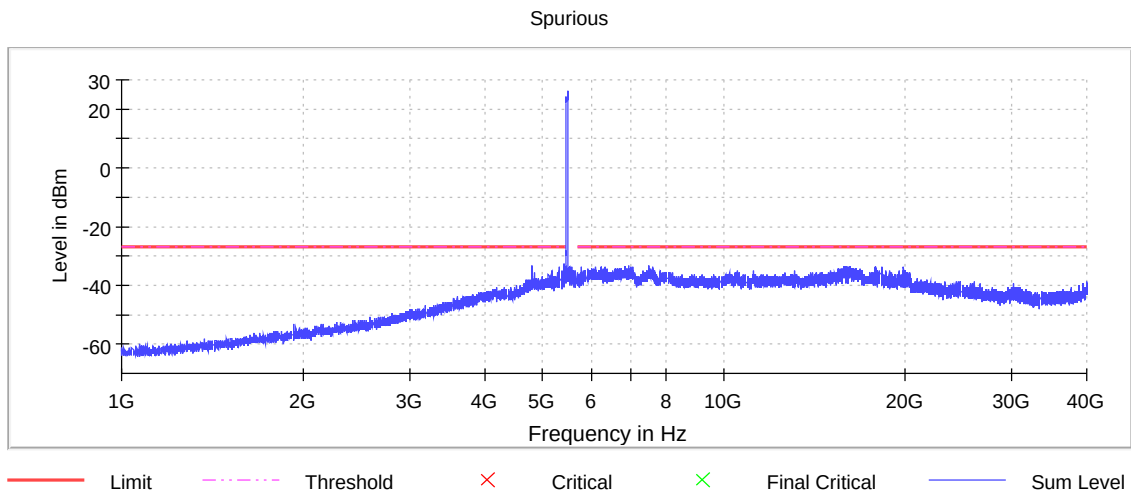
Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result
---	---	---	---	---	---

Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
5469.750000	-28.2	1.2	-27.0
5469.250000	-28.5	1.5	-27.0
5468.750000	-30.3	3.3	-27.0
5435.250000	-32.6	5.6	-27.0
5434.750000	-32.8	5.8	-27.0
5468.250000	-33.0	6.0	-27.0
5435.750000	-33.1	6.1	-27.0
4800.250000	-33.1	6.1	-27.0
6967.250000	-33.2	6.2	-27.0
6966.750000	-33.2	6.2	-27.0
7520.750000	-33.3	6.3	-27.0
16113.250000	-33.5	6.5	-27.0
6989.250000	-33.6	6.6	-27.0
5320.750000	-33.7	6.7	-27.0
19907.250000	-33.7	6.7	-27.0

Measurement Settings

Start Frequency (MHz)	Stop Frequency (MHz)	Pre Measurement	Final Measurement
1000.000000	5150.000000	2	2
5150.000000	5250.000000	2	2
5250.000000	5350.000000	2	2
5350.000000	5470.000000	2	2
5470.000000	5725.000000	2	2
5725.000000	5850.000000	2	2
5850.000000	7000.000000	2	2
7000.000000	18000.000000	2	2
18000.000000	26000.000000	2	2
26000.000000	40000.000000	2	2



Pre Measurement 2

Setting	Instrument Value	Target Value
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	8300	~ 8300
SweepTime	8.300 ms	AUTO
Reference Level	0.000 dBm	AUTO
Attenuation	10.000 dB	10.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	30	30
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off

Emissions in restricted frequency bands (Average) (5480 MHz; 10 MHz)

Customized settings.

Test according to FCC title 47 part 15 §15.407(b), KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 II.G.1 and ANSI C63.10-2013

Result

DUT Frequency (MHz)	Result
5480.000000	PASS

Final measurements

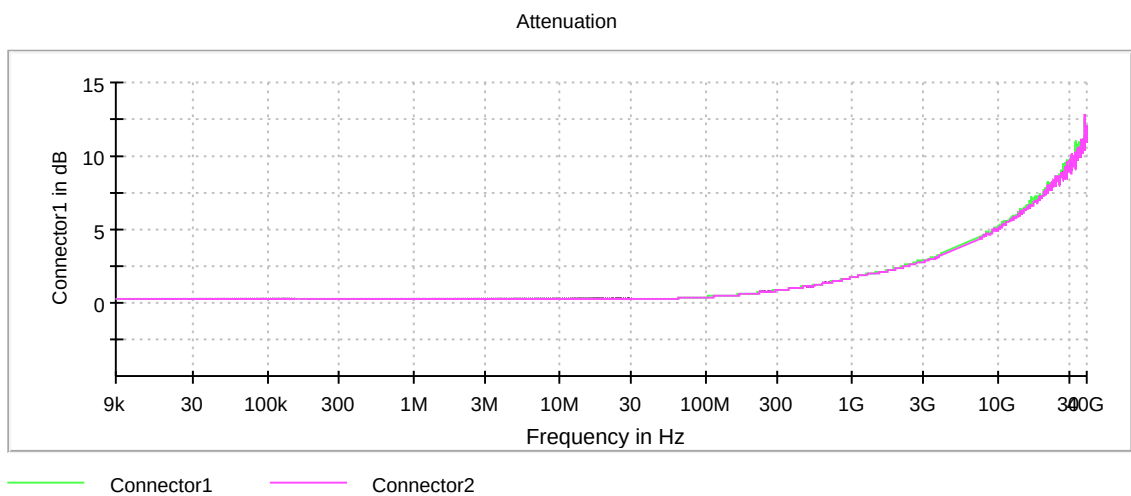
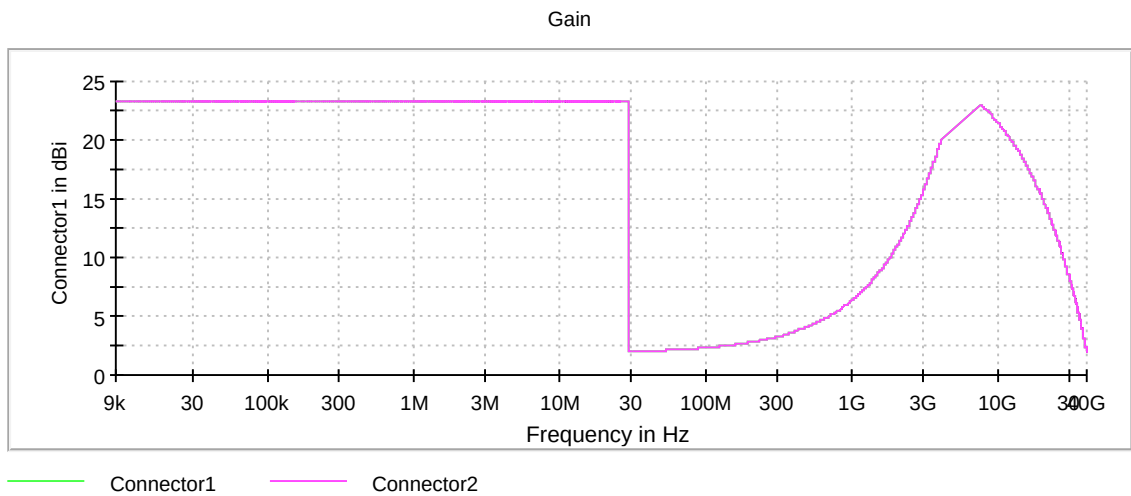
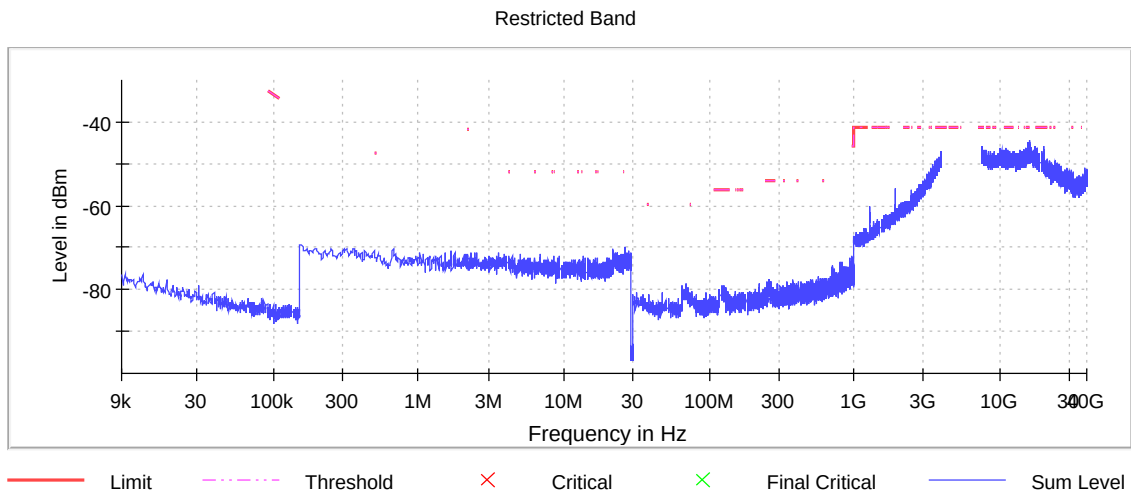
Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result
---	---	---	---	---	---

Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
16170.250000	-44.4	3.2	-41.2
15812.750000	-44.7	3.5	-41.2
16173.250000	-45.1	3.9	-41.2
15902.750000	-45.1	3.9	-41.2
15854.250000	-45.1	3.9	-41.2
15881.750000	-45.3	4.1	-41.2
16180.750000	-45.3	4.1	-41.2
15914.750000	-45.4	4.2	-41.2
15906.250000	-45.4	4.2	-41.2
15811.750000	-45.4	4.2	-41.2
15892.750000	-45.5	4.3	-41.2
15876.250000	-45.5	4.3	-41.2
15866.750000	-45.5	4.3	-41.2
15902.250000	-45.5	4.3	-41.2
15844.250000	-45.5	4.3	-41.2

Measurement Settings

Start Frequency (MHz)	Stop Frequency (MHz)	Pre Measurement	Final Measurement
0.009000	0.090000	1	1
0.090000	0.110000	2	2
0.110000	0.150000	1	1
0.150000	0.490000	1	1
0.490000	30.000000	2	2
30.000000	1000.000000	2	2
1000.000000	4000.000000	1	1
7500.000000	18000.000000	1	1
18000.000000	26000.000000	1	1
26000.000000	40000.000000	1	1



Pre Measurement 1

Setting	Instrument Value	Target Value
RBW	300.000 Hz	<= 300.000 Hz
VBW	1.000 kHz	>= 900.000 Hz
SweepPoints	540	~ 540
SweepTime	6.322 ms	AUTO
Reference Level	-5.000 dBm	AUTO
Attenuation	5.000 dB	5.000 dB
Detector	RMS	RMS
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off

Pre Measurement 2

Setting	Instrument Value	Target Value
RBW	300.000 Hz	<= 300.000 Hz
VBW	1.000 kHz	>= 900.000 Hz
SweepPoints	133	~ 133
SweepTime	6.312 ms	AUTO
Reference Level	-5.000 dBm	AUTO
Attenuation	5.000 dB	5.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	30	30
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off

Emissions in restricted frequency bands (Peak) (5480 MHz; 10 MHz)

Customized settings.

Test according to FCC title 47 part 15 §15.407(b), KDB 789033 D02 General U-NII Test Procedures
New Rules v02r01 II.G.1 and ANSI C63.10-2013

Result

DUT Frequency (MHz)	Result
5480.000000	PASS

Final measurements

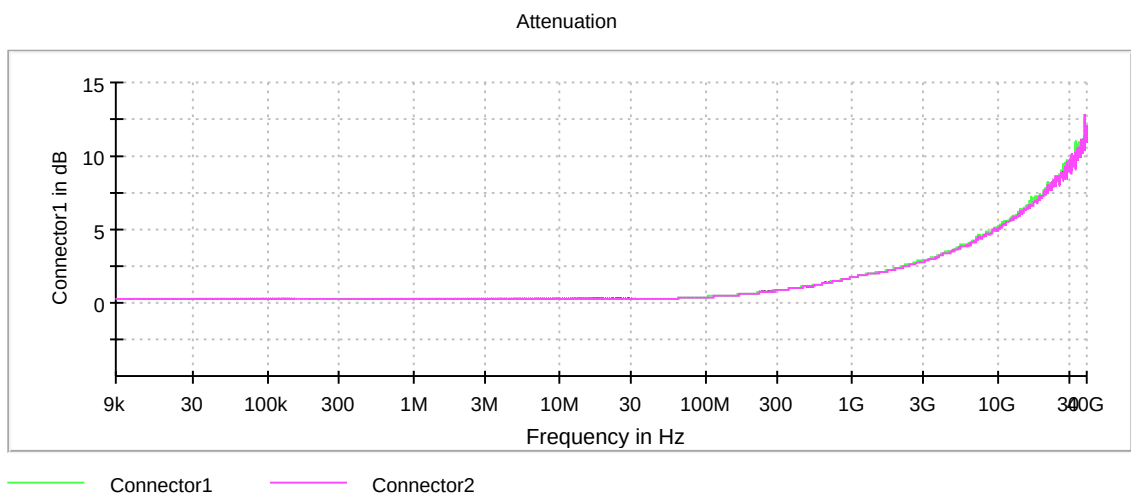
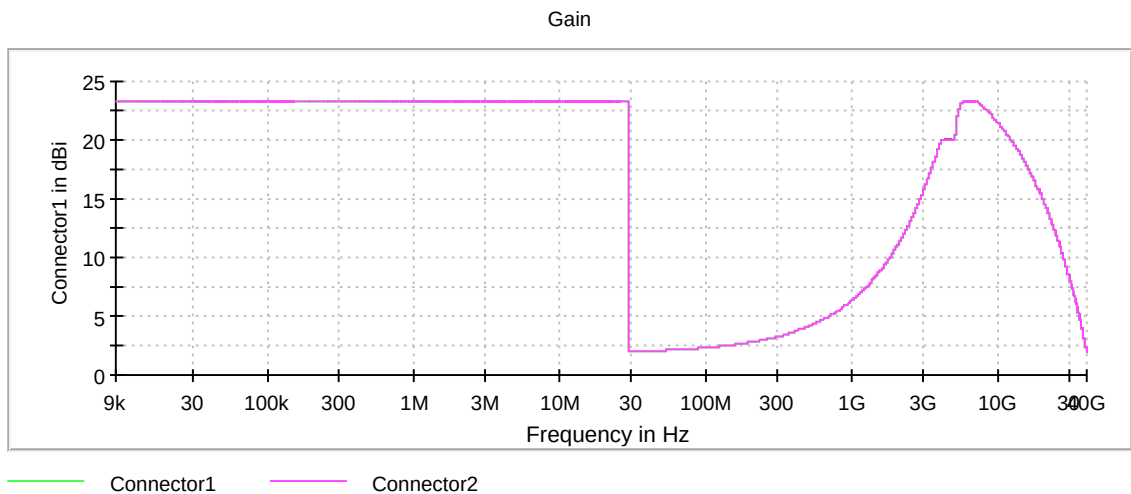
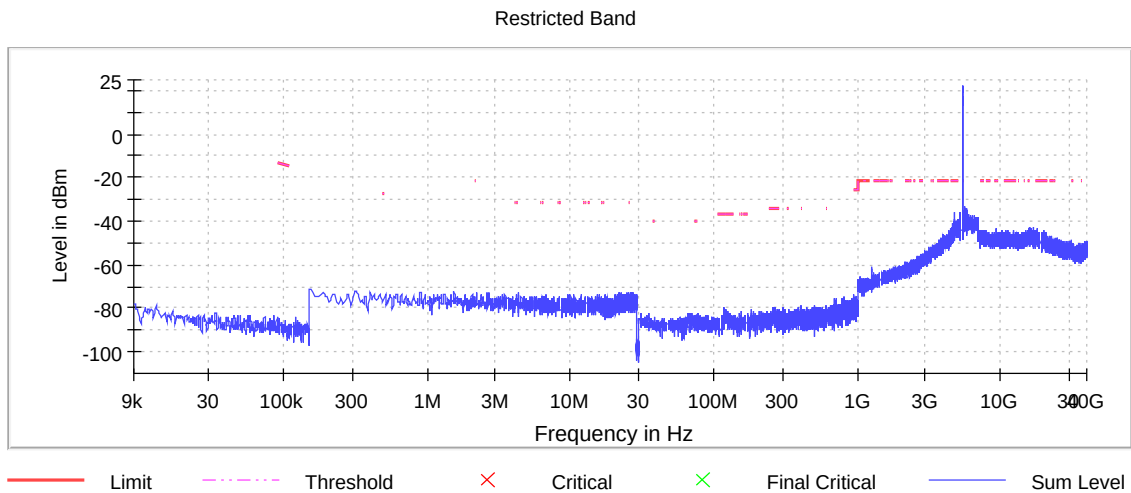
Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result
---	---	---	---	---	---

Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
4800.250000	-35.9	14.7	-21.2
5439.750000	-36.1	14.9	-21.2
5438.250000	-36.2	15.0	-21.2
5432.750000	-36.3	15.1	-21.2
5433.250000	-36.4	15.2	-21.2
5425.750000	-36.4	15.2	-21.2
5425.250000	-36.4	15.2	-21.2
5440.250000	-36.8	15.6	-21.2
5436.250000	-36.8	15.6	-21.2
4799.750000	-36.8	15.6	-21.2
5438.750000	-36.9	15.7	-21.2
5436.750000	-36.9	15.7	-21.2
5437.750000	-37.2	16.0	-21.2
5432.250000	-37.3	16.1	-21.2
5439.250000	-37.5	16.3	-21.2

Measurement Settings

Start Frequency (MHz)	Stop Frequency (MHz)	Pre Measurement	Final Measurement
0.009000	0.150000	1	1
0.150000	30.000000	1	1
30.000000	1000.000000	1	1
1000.000000	5150.000000	1	2
5150.000000	5350.000000	1	2
5350.000000	5470.000000	1	2
5470.000000	5850.000000	1	2
5850.000000	18000.000000	1	2
18000.000000	26000.000000	1	2
26000.000000	40000.000000	1	2



Pre Measurement 1

Setting	Instrument Value	Target Value
RBW	300.000 Hz	<= 300.000 Hz
VBW	1.000 kHz	>= 900.000 Hz
SweepPoints	940	~ 940
SweepTime	6.322 ms	AUTO
Reference Level	-5.000 dBm	AUTO
Attenuation	5.000 dB	5.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	3	3
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off

Emission Bandwidth 26 dB (5600 MHz; 10 MHz)

Customized settings.

Test according to FCC title 47 part 15 §15.407(a),(e), KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 D and ANSI C63.10-2013

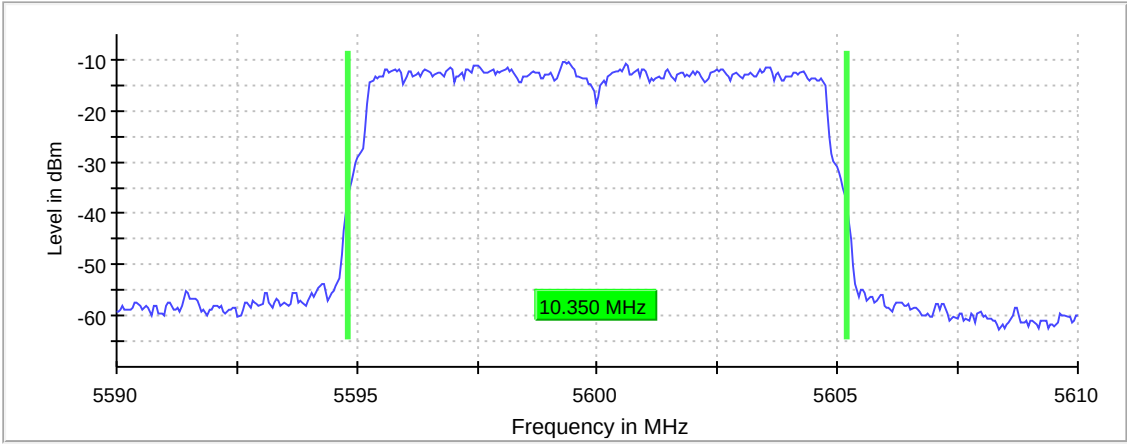
26 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5600.000000	10.350000	---	---	5594.825000	5605.175000

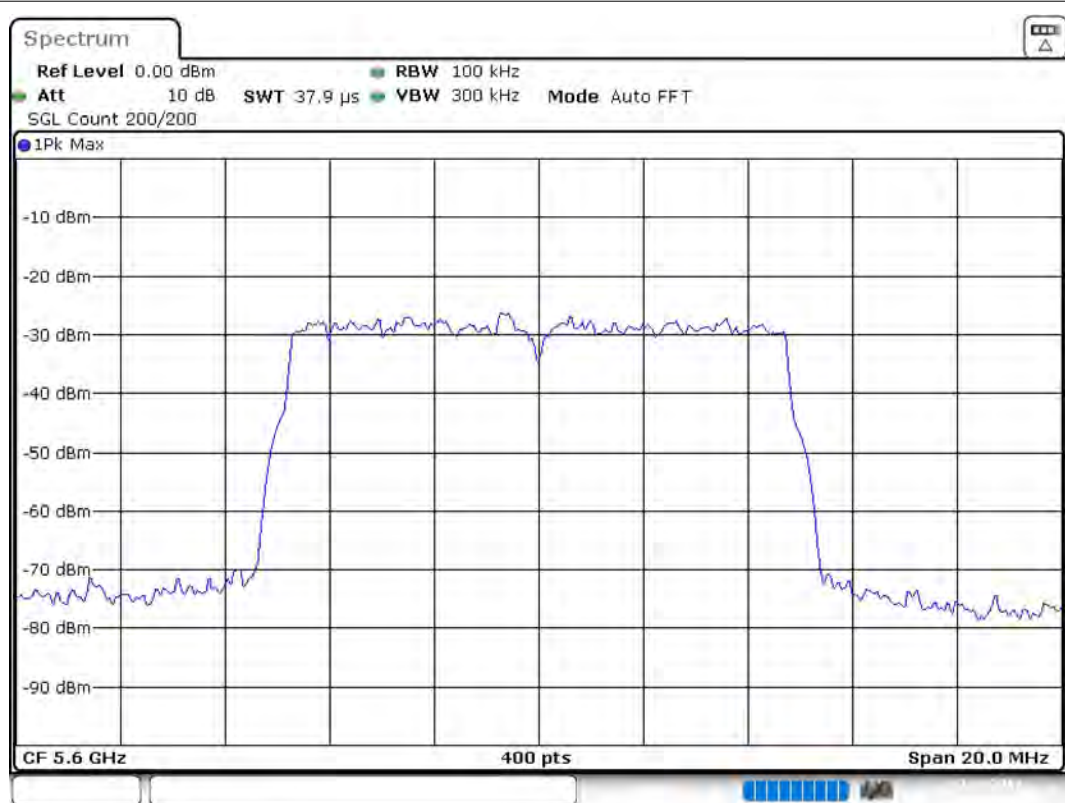
(continuation of the "26 dB Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
5600.000000	-10.3	PASS

26 dB Bandwidth



Bandwidth



Date: 2.AUG.2019 00:44:09

Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.59000 GHz	5.59000 GHz
Stop Frequency	5.61000 GHz	5.61000 GHz
Span	20.000 MHz	20.000 MHz
RBW	100.000 kHz	~ 100.000 kHz
VBW	300.000 kHz	>= 300.000 kHz
SweepPoints	400	~ 400
Sweeptime	37.891 μ s	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	10.000 dB	0.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off

RF output power (5600 MHz; 10 MHz)

Customized settings.

Test according to FCC title 47 part 15 §15.407(a), KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 II.E and ANSI C63.10-2013

Result

DUT Frequency (MHz)	Gated RMS (dBm)	Limit Max (dBm)	Gated EIRP (dBm)	DutyCycle (%)	Result
5600.000000	27.7	---	27.7	98.357	PASS

Power Spectral Density (5600 MHz; 10 MHz)

Customized settings.

Test according to FCC title 47 part 15 §15.407(a), KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 II.F and ANSI C63.10-2013

Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
5600.000000	5597.920792	-6.669	-6.3	PASS

Ports

Port	Duty Cycle (%)
1	0.000
2	0.000

Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.59500 GHz	5.59500 GHz
Stop Frequency	5.60500 GHz	5.60500 GHz
Span	10.000 MHz	10.000 MHz
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	101	~ 20
SweepTime	2.020 ms	2.020 ms
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	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off

Occupied Channel Bandwidth 99% (5600 MHz; 10 MHz)

Customized settings.

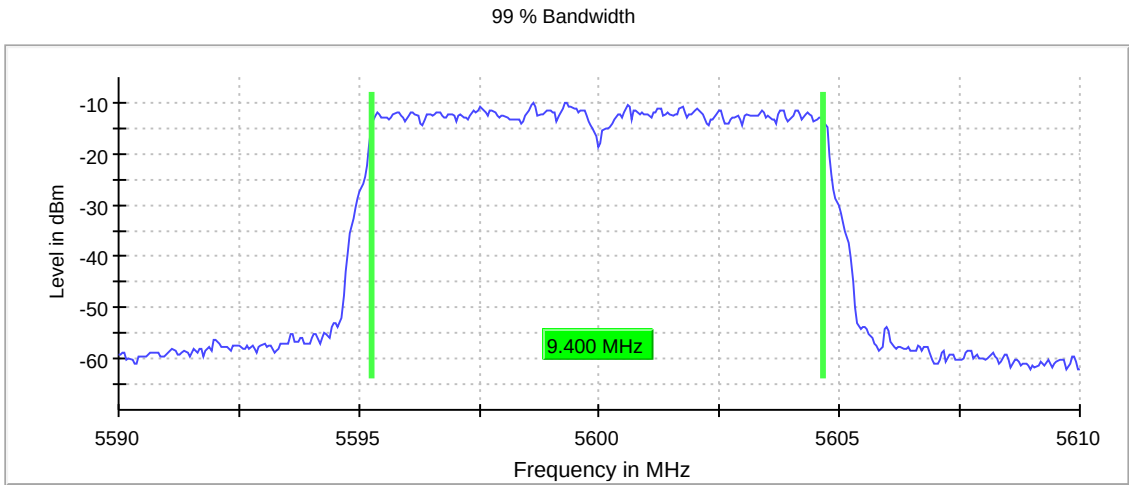
Test according to FCC title 47 part 15 §15.407(a),(e), KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 D and ANSI C63.10-2013

99 % Bandwidth

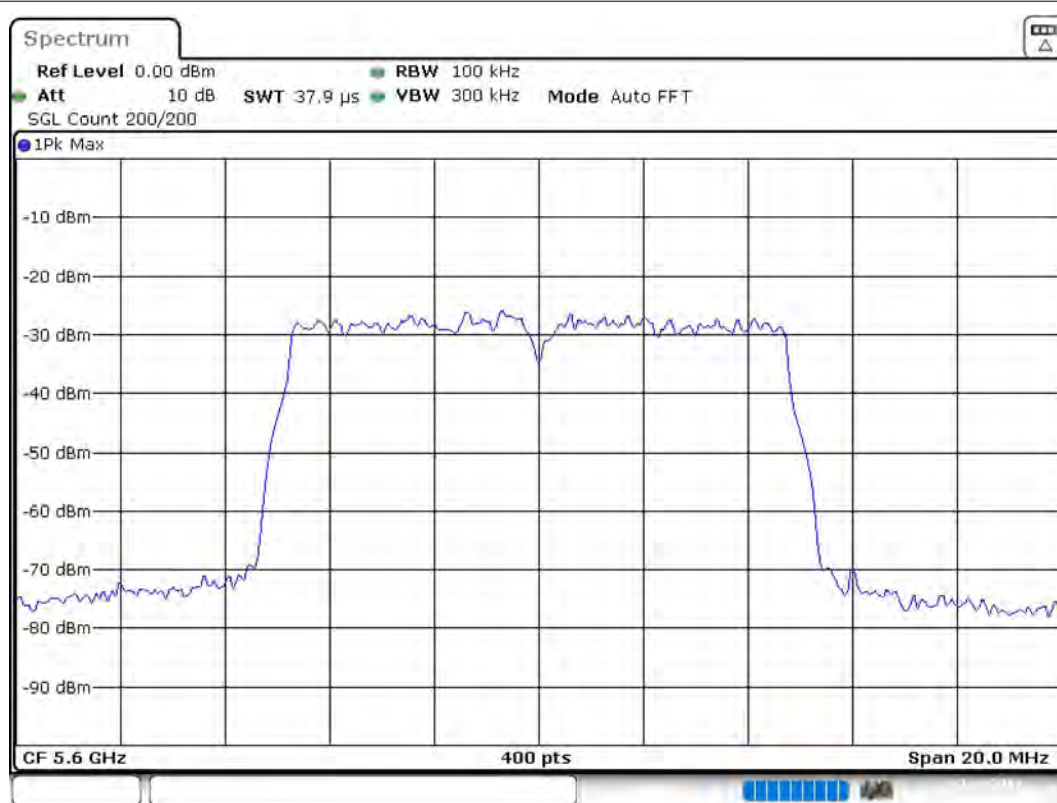
DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5600.000000	9.400000	---	---	5595.275000	5604.675000

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

DUT Frequency (MHz)	Result
5600.000000	PASS



Bandwidth



Date: 2.AUG.2019 00:44:59

Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.59000 GHz	5.59000 GHz
Stop Frequency	5.61000 GHz	5.61000 GHz
Span	20.000 MHz	20.000 MHz
RBW	100.000 kHz	≥ 100.000 kHz
VBW	300.000 kHz	≥ 300.000 kHz
SweepPoints	400	~ 400
Sweeptime	37.891 μ s	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	10.000 dB	0.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off

Emissions in restricted frequency bands (Average) (5600 MHz; 10 MHz)

Customized settings.

Test according to FCC title 47 part 15 §15.407(b), KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 II.G.1 and ANSI C63.10-2013

Result

DUT Frequency (MHz)	Result
5600.000000	PASS

Final measurements

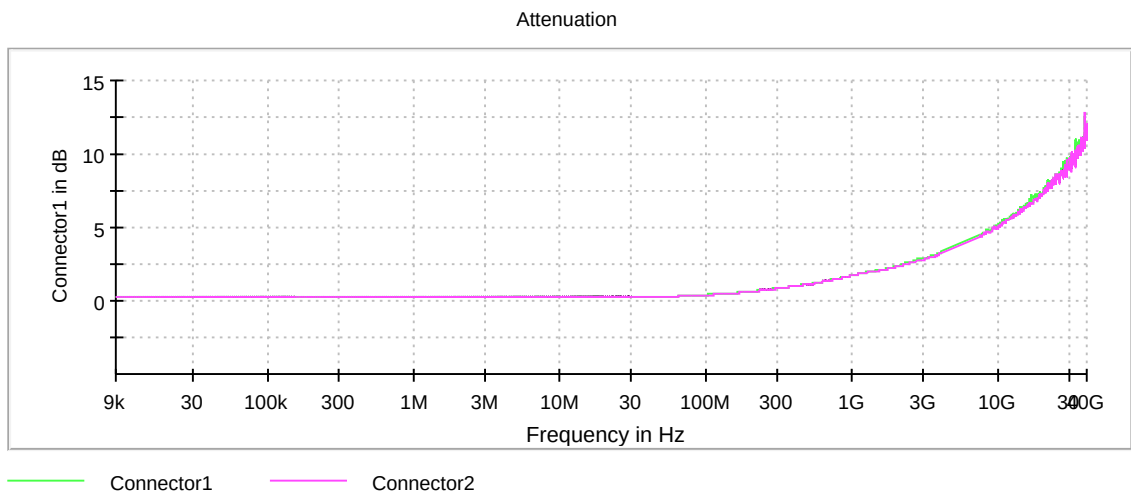
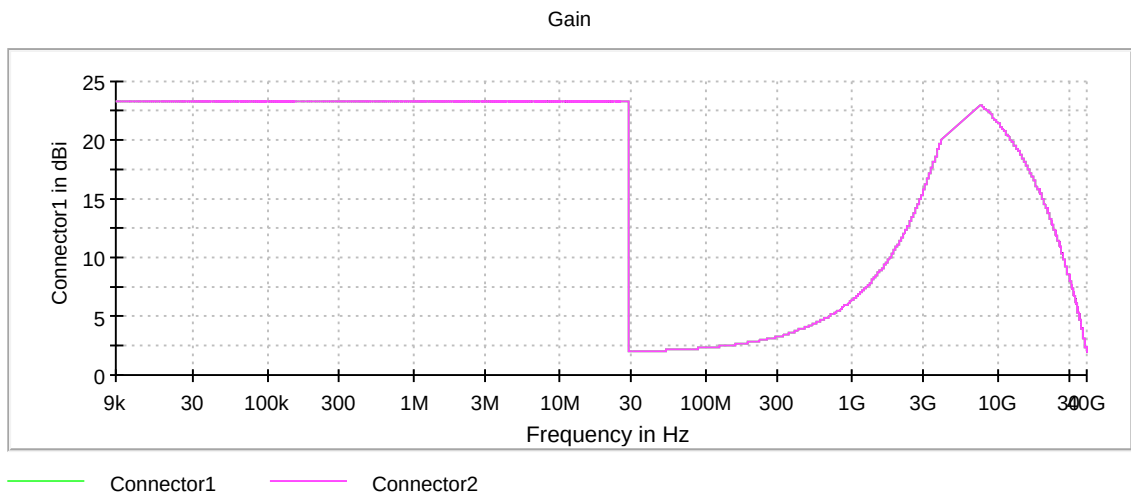
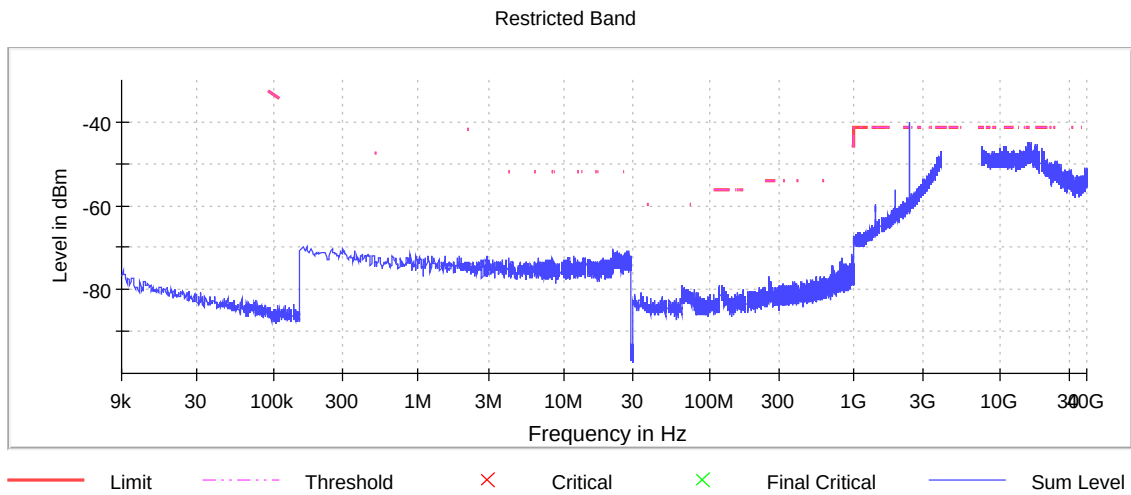
Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result
---	---	---	---	---	---

Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
15856.250000	-44.9	3.7	-41.2
15795.250000	-44.9	3.7	-41.2
15802.750000	-44.9	3.7	-41.2
15887.250000	-45.0	3.8	-41.2
15828.750000	-45.0	3.8	-41.2
15912.750000	-45.2	4.0	-41.2
15824.250000	-45.3	4.1	-41.2
15819.250000	-45.3	4.1	-41.2
15852.250000	-45.4	4.2	-41.2
18239.250000	-45.4	4.2	-41.2
15862.750000	-45.5	4.3	-41.2
15773.750000	-45.5	4.3	-41.2
17898.250000	-45.5	4.3	-41.2
15811.250000	-45.5	4.3	-41.2
15900.750000	-45.5	4.3	-41.2

Measurement Settings

Start Frequency (MHz)	Stop Frequency (MHz)	Pre Measurement	Final Measurement
0.009000	0.090000	1	1
0.090000	0.110000	2	2
0.110000	0.150000	1	1
0.150000	0.490000	1	1
0.490000	30.000000	2	2
30.000000	1000.000000	2	2
1000.000000	4000.000000	1	1
7500.000000	18000.000000	1	1
18000.000000	26000.000000	1	1
26000.000000	40000.000000	1	1



Pre Measurement 1

Setting	Instrument Value	Target Value
RBW	300.000 Hz	<= 300.000 Hz
VBW	1.000 kHz	>= 900.000 Hz
SweepPoints	540	~ 540
SweepTime	6.322 ms	AUTO
Reference Level	-5.000 dBm	AUTO
Attenuation	5.000 dB	5.000 dB
Detector	RMS	RMS
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off

Pre Measurement 2

Setting	Instrument Value	Target Value
RBW	300.000 Hz	<= 300.000 Hz
VBW	1.000 kHz	>= 900.000 Hz
SweepPoints	133	~ 133
SweepTime	6.312 ms	AUTO
Reference Level	-5.000 dBm	AUTO
Attenuation	5.000 dB	5.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	30	30
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off

Emissions in restricted frequency bands (Peak) (5600 MHz; 10 MHz)

Customized settings.

Test according to FCC title 47 part 15 §15.407(b), KDB 789033 D02 General U-NII Test Procedures
New Rules v02r01 II.G.1 and ANSI C63.10-2013

Result

DUT Frequency (MHz)	Result
5600.000000	PASS

Final measurements

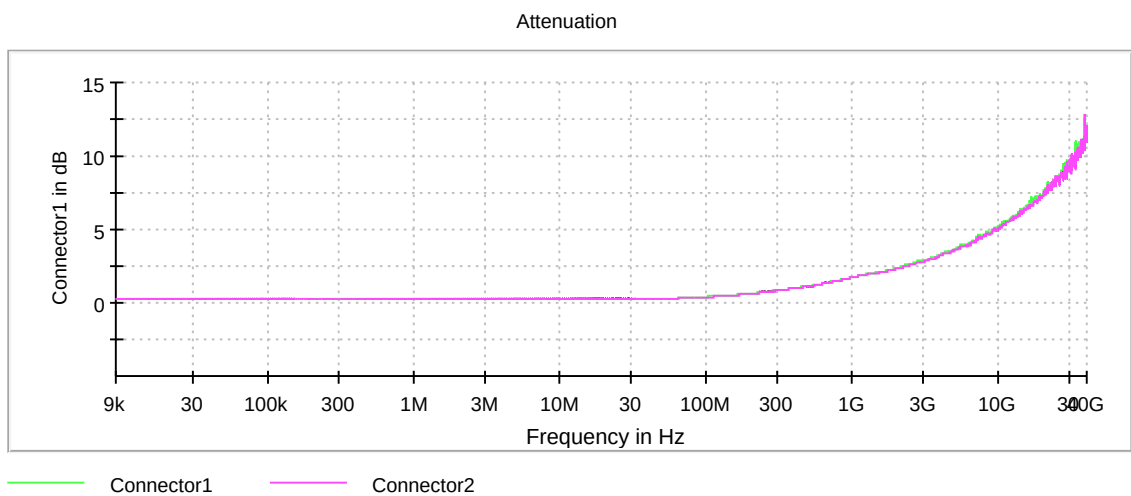
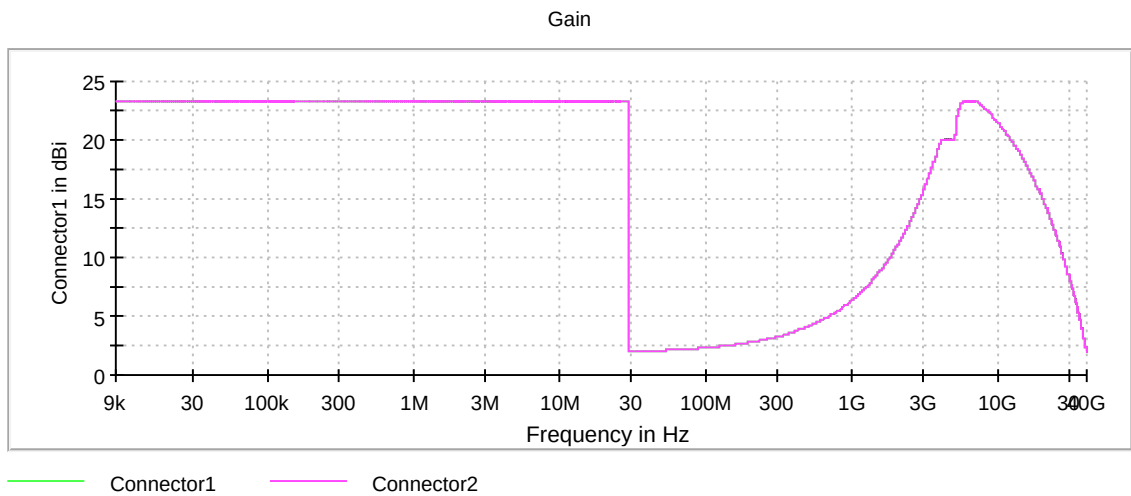
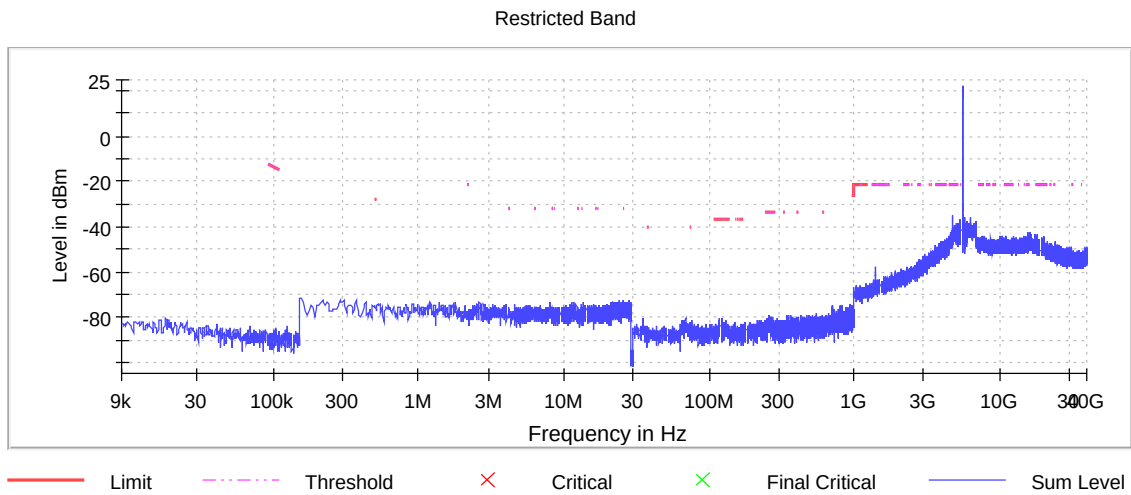
Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result
---	---	---	---	---	---

Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
4800.750000	-34.9	13.7	-21.2
4800.250000	-35.9	14.7	-21.2
5423.250000	-36.7	15.5	-21.2
5436.750000	-37.0	15.8	-21.2
4799.750000	-37.1	15.9	-21.2
5423.750000	-37.1	15.9	-21.2
5375.750000	-37.3	16.1	-21.2
5417.750000	-37.3	16.1	-21.2
5421.250000	-37.3	16.1	-21.2
5422.750000	-37.4	16.2	-21.2
5420.750000	-37.4	16.2	-21.2
5376.250000	-37.5	16.3	-21.2
5417.250000	-37.8	16.6	-21.2
5436.250000	-37.9	16.7	-21.2
5420.250000	-37.9	16.7	-21.2

Measurement Settings

Start Frequency (MHz)	Stop Frequency (MHz)	Pre Measurement	Final Measurement
0.009000	0.150000	1	1
0.150000	30.000000	1	1
30.000000	1000.000000	1	1
1000.000000	5150.000000	1	2
5150.000000	5350.000000	1	2
5350.000000	5470.000000	1	2
5470.000000	5850.000000	1	2
5850.000000	18000.000000	1	2
18000.000000	26000.000000	1	2
26000.000000	40000.000000	1	2



Pre Measurement 1

Setting	Instrument Value	Target Value
RBW	300.000 Hz	<= 300.000 Hz
VBW	1.000 kHz	>= 900.000 Hz
SweepPoints	940	~ 940
SweepTime	6.322 ms	AUTO
Reference Level	-5.000 dBm	AUTO
Attenuation	5.000 dB	5.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	3	3
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off

Emission Bandwidth 26 dB (5715 MHz; 10 MHz)

Customized settings.

Test according to FCC title 47 part 15 §15.407(a),(e), KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 D and ANSI C63.10-2013

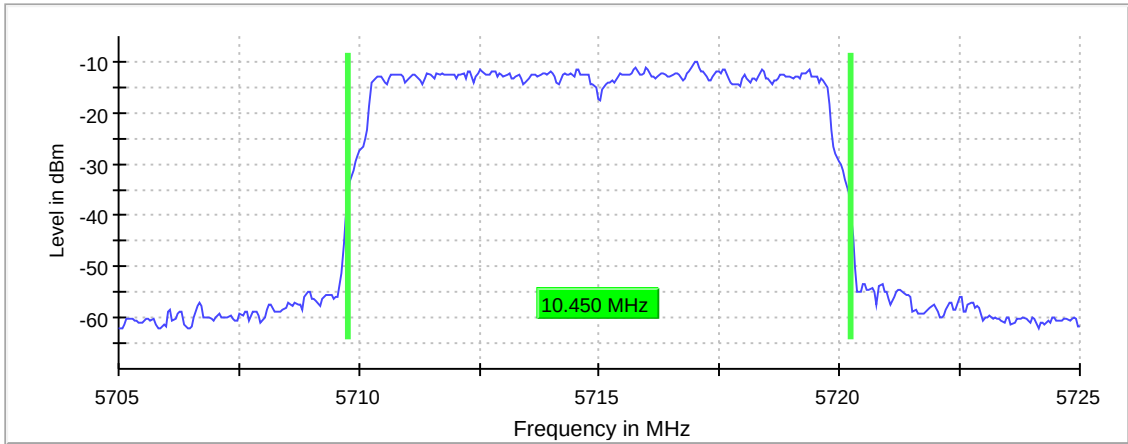
26 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5715.000000	10.450000	---	---	5709.775000	5720.225000

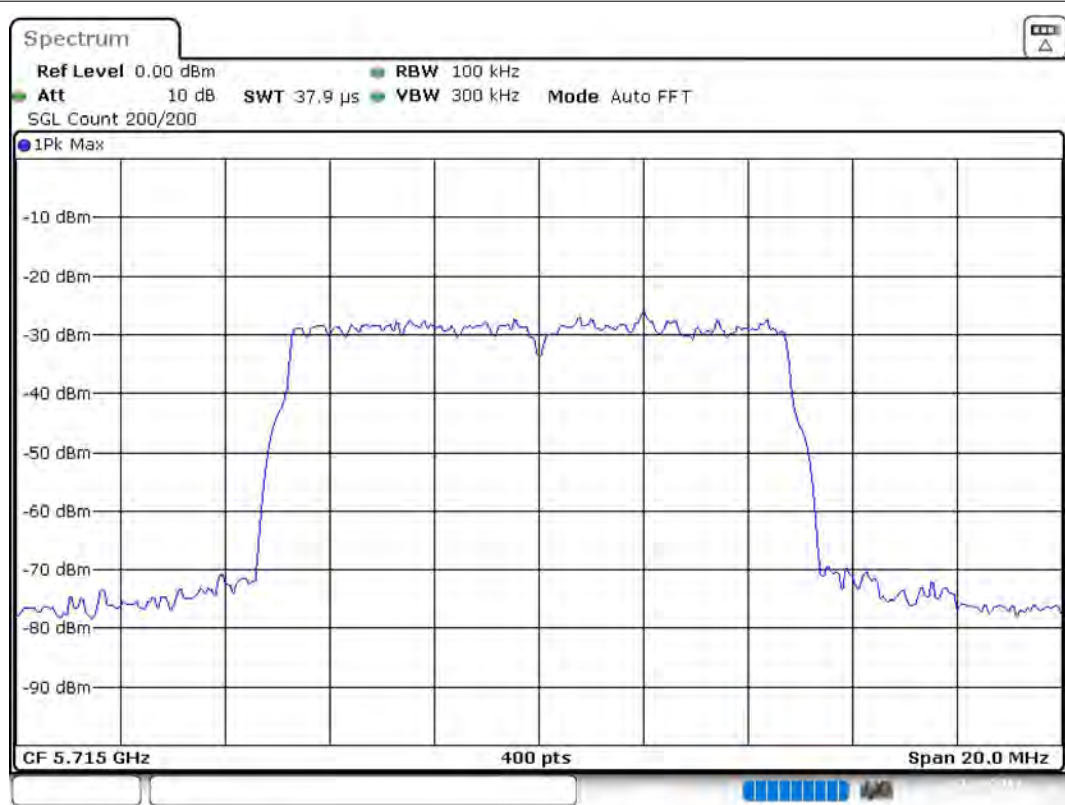
(continuation of the "26 dB Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
5715.000000	-10.2	PASS

26 dB Bandwidth



Bandwidth



Date: 2.AUG.2019 00:55:45

Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.70500 GHz	5.70500 GHz
Stop Frequency	5.72500 GHz	5.72500 GHz
Span	20.000 MHz	20.000 MHz
RBW	100.000 kHz	~ 100.000 kHz
VBW	300.000 kHz	>= 300.000 kHz
SweepPoints	400	~ 400
Sweeptime	37.891 μ s	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	10.000 dB	0.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off

RF output power (5715 MHz; 10 MHz)

Customized settings.

Test according to FCC title 47 part 15 §15.407(a), KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 II.E and ANSI C63.10-2013

Result

DUT Frequency (MHz)	Gated RMS (dBm)	Limit Max (dBm)	Gated EIRP (dBm)	DutyCycle (%)	Result
5715.000000	27.7	---	27.7	98.358	PASS

Power Spectral Density (5715 MHz; 10 MHz)

Customized settings.

Test according to FCC title 47 part 15 §15.407(a), KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 II.F and ANSI C63.10-2013

Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
5715.000000	5716.386139	-7.524	-6.3	PASS

Ports

Port	Duty Cycle (%)
1	0.000
2	0.000

Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.71000 GHz	5.71000 GHz
Stop Frequency	5.72000 GHz	5.72000 GHz
Span	10.000 MHz	10.000 MHz
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	101	~ 20
SweepTime	2.020 ms	2.020 ms
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	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off

Occupied Channel Bandwidth 99% (5715 MHz; 10 MHz)

Customized settings.

Test according to FCC title 47 part 15 §15.407(a),(e), KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 D and ANSI C63.10-2013

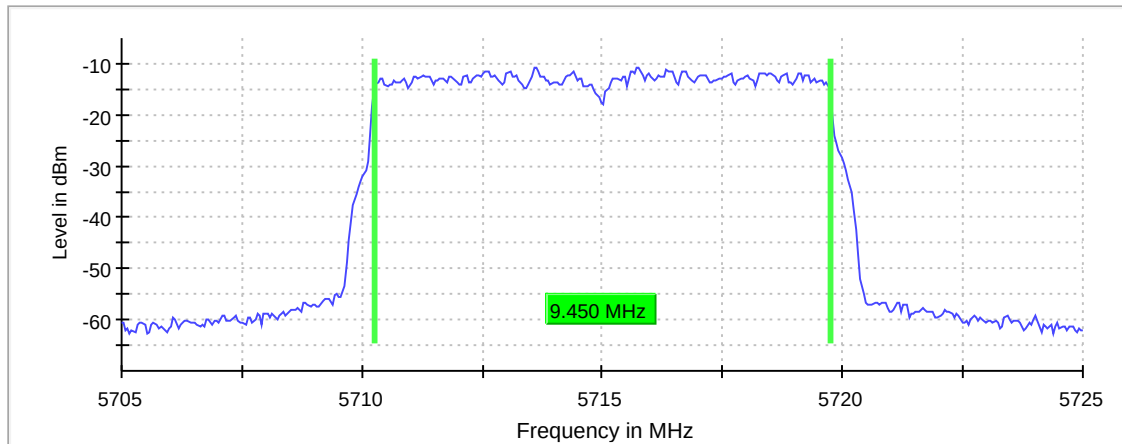
99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5715.000000	9.450000	---	---	5710.275000	5719.725000

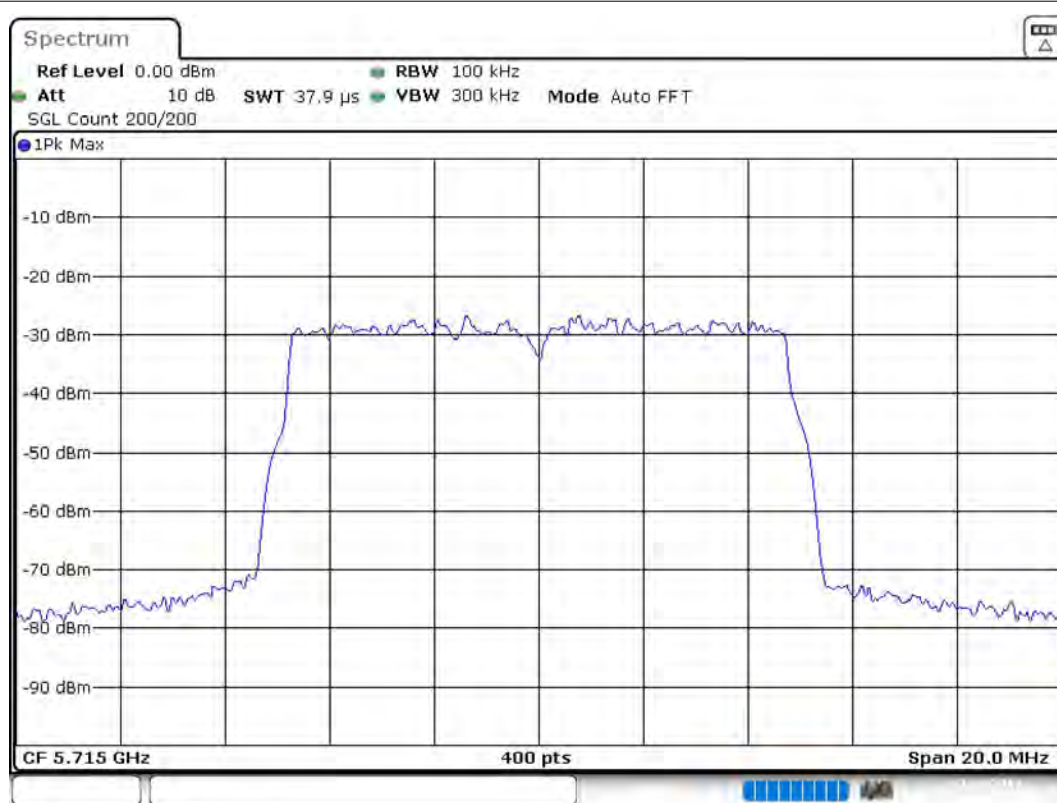
(continuation of the "99 % Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Result
5715.000000	PASS

99 % Bandwidth



Bandwidth



Date: 2.AUG.2019 00:56:38

Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.70500 GHz	5.70500 GHz
Stop Frequency	5.72500 GHz	5.72500 GHz
Span	20.000 MHz	20.000 MHz
RBW	100.000 kHz	≥ 100.000 kHz
VBW	300.000 kHz	≥ 300.000 kHz
SweepPoints	400	~ 400
Sweeptime	37.891 μ s	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	10.000 dB	0.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off

Frequency stability (5715 MHz; 10 MHz)

Test according to FCC title 47 part 15 §15.407(g), KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 A.3 and ANSI C63.10-2013

Result

DUT Frequency (MHz)	Frequency (MHz)	Difference (ppm)	Frequency Difference (kHz)	Limit Min (MHz)	Limit Max (MHz)	Result
5715.000000	5714.992501	1.312	-7.499000	---	---	PASS

Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.71000 GHz	5.71000 GHz
Stop Frequency	5.72000 GHz	5.72000 GHz
Span	10.000 MHz	10.000 MHz
RBW	10.000 kHz	<= 10.000 kHz
VBW	30.000 kHz	>= 30.000 kHz
SweepPoints	10001	~ 10001
SweepTime	568.782 µs	AUTO
Reference Level	20.000 dBm	20.000 dBm
Attenuation	40.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	50	50
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	1.00 dB	1.00 dB
Run	15 / max. 150	max. 150
Stable	1 / 1	1
Max Stable Difference	0.78 dB	1.00 dB

Tx Spurious Emission (5715 MHz; 10 MHz)

Customized settings.

Test according to FCC title 47 part 15 §15.407(b), KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 II.G.4&5 and ANSI C63.10-2013

Result

DUT Frequency (MHz)	Result
5715.000000	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)
5725.750000	-28.4	1.4	-27.0
5725.250000	-28.6	1.6	-27.0
5726.250000	-29.3	2.3	-27.0
16149.250000	-32.2	5.2	-27.0
5726.750000	-32.3	5.3	-27.0
5879.250000	-32.3	5.3	-27.0
5760.750000	-32.5	5.5	-27.0
4800.250000	-32.7	5.7	-27.0
5758.750000	-32.8	5.8	-27.0
5878.750000	-32.9	5.9	-27.0
17903.750000	-32.9	5.9	-27.0
5873.250000	-32.9	5.9	-27.0
5761.250000	-32.9	5.9	-27.0
5196.750000	-33.0	6.0	-27.0
5759.250000	-33.0	6.0	-27.0

Measurement Settings

Start Frequency (MHz)	Stop Frequency (MHz)	Pre Measurement	Final Measurement
1000.000000	5150.000000	2	2
5150.000000	5250.000000	2	2
5250.000000	5350.000000	2	2
5350.000000	5470.000000	2	2
5470.000000	5725.000000	2	2
5725.000000	5850.000000	2	2
5850.000000	7000.000000	2	2
7000.000000	18000.000000	2	2
18000.000000	26000.000000	2	2
26000.000000	40000.000000	2	2