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1. 26dB Bandwidth and 99% Bandwidth

1.1 Test Datas

Channel (mode)	Channel Frequency (MHz)	Emission Bandwidth	
		26dB Bandwidth (MHz)	99% Bandwidth (MHz)
36 (802.11a)	5180	22.300	16.600
40 (802.11a)	5220	22.300	16.600
48 (802.11a)	5240	22.300	16.700
52 (802.11a)	5260	22.300	16.700
56 (802.11a)	5300	22.600	16.600
64 (802.11a)	5320	22.500	16.600
100 (802.11a)	5500	22.900	16.600
116 (802.11a)	5580	22.300	16.300
140 (802.11a)	5700	22.300	16.600
144 (802.11a)	5720	23.100 16.750 for U-NII 2C 6.350 or U-NII 3	16.700 13.350 for U-NII 2C 3.350 for U-NII 3
149 (802.11a)	5745	--	16.600
157 (802.11a)	5785	--	16.600
165 (802.11a)	5825	--	16.600

Channel (mode)	Channel Frequency (MHz)	Emission Bandwidth	
		26dB Bandwidth (MHz)	99% Bandwidth (MHz)
36 (802.11n-HT20)	5180	23.200	17.900
40 (802.11n-HT20)	5220	23.200	17.900
48 (802.11n-HT20)	5240	23.500	17.900
52 (802.11n-HT20)	5260	23.200	17.900
56 (802.11n-HT20)	5300	22.900	17.800
64 (802.11n-HT20)	5320	23.300	17.900
100 (802.11n-HT20)	5500	23.200	17.800
116 (802.11n-HT20)	5580	23.200	17.900
140 (802.11n-HT20)	5700	22.800	17.900
144 (802.11n-HT20)	5720	23.200 16.450 for U-NII 2C 6.750 or U-NII 3	17.900 13.950 for U-NII 2C 3.850 for U-NII 3
149 (802.11n-HT20)	5745	--	17.800
157 (802.11n-HT20)	5785	--	17.800
165 (802.11n-HT20)	5825	--	17.800

Channel (mode)	Channel Frequency (MHz)	Emission Bandwidth	
		26dB Bandwidth (MHz)	99% Bandwidth (MHz)
36 (802.11ac20)	5180	23.200	17.900
40 (802.11ac20)	5220	23.200	17.900
48 (802.11ac20)	5240	23.200	17.900
52 (802.11ac20)	5260	22.800	17.900
56 (802.11ac20)	5300	23.400	17.800
64 (802.11ac20)	5320	23.200	17.800
100 (802.11ac20)	5500	23.200	17.900
116 (802.11ac20)	5580	23.200	17.700
140 (802.11ac20)	5700	22.900	17.800
144 (802.11ac20)	5720	23.200 16.450 for U-NII 2C 6.750 for U-NII 3	17.800 13.950 for U-NII 2C 3.850 for U-NII 3
149 (802.11ac20)	5745	--	17.800

157 (802.11ac20)	5785	--	17.900
165 (802.11ac20)	5825	--	17.700

Channel (mode)	Channel Frequency (MHz)	Emission Bandwidth	
		26dB Bandwidth (MHz)	99% Bandwidth (MHz)
38 (802.11n-HT40)	5190	42.026	36.500
46 (802.11n-HT40)	5230	42.026	36.500
54 (802.11n-HT40)	5270	41.876	36.500
62 (802.11n-HT40)	5310	42.176	36.500
102 (802.11n-HT40)	5510	42.176	36.500
110 (802.11n-HT40)	5550	42.176	36.500
134 (802.11n-HT40)	5670	42.326	36.500
142 (802.11n-HT40)	5710	41.176 36.014 for U-NII 2C 5.162 for UNII 3	36.500 33.125 for U-NII 2C 3.375 for U-NII 3
151 (802.11n-HT40)	5755	--	36.500
159 (802.11n-HT40)	5795	--	36.500

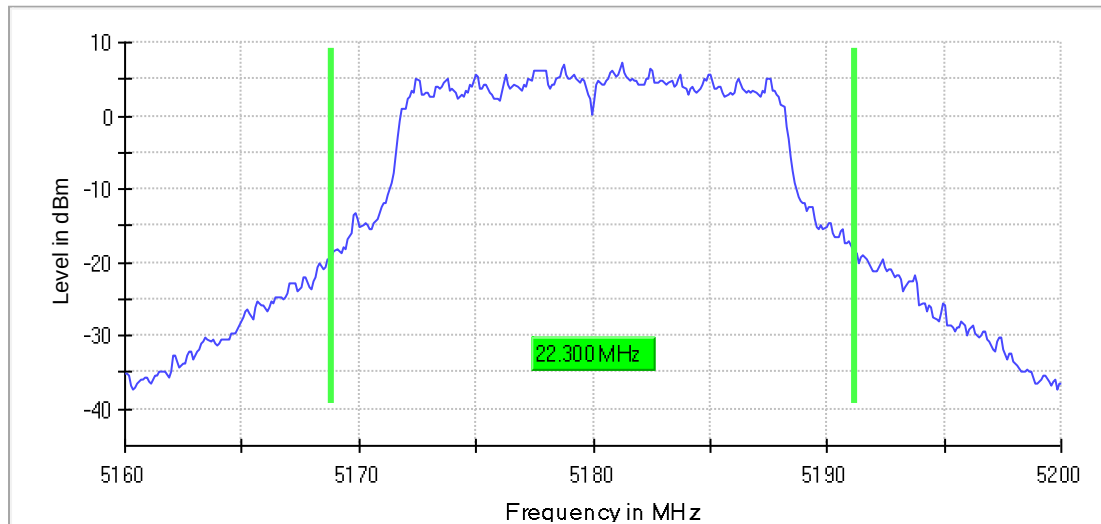
Channel (mode)	Channel Frequency (MHz)	Emission Bandwidth	
		26dB Bandwidth (MHz)	99% Bandwidth (MHz)
38 (802.11ac40)	5190	42.026	36.500
46 (802.11ac40)	5230	42.026	36.500
54 (802.11ac40)	5270	41.876	36.500
62 (802.11ac40)	5310	42.026	36.500
102 (802.11ac40)	5510	42.176	36.500
110 (802.11ac40)	5550	42.326	36.500
134 (802.11ac40)	5670	42.176	36.500
142 (802.11ac40)	5710	42.326 36.163 for U-NII 2C 6.163 for U-NII 3	36.500 33.125 for U-NII 2C 3.375 for U-NII 3
151 (802.11ac40)	5755	--	36.500
159 (802.11ac40)	5795	--	36.500

Channel (mode)	Channel Frequency (MHz)	Emission Bandwidth	
		26dB Bandwidth (MHz)	99% Bandwidth (MHz)
42 (802.11ac80)	5210	85.500	76.000
58 (802.11ac80)	5290	85.500	76.000
106 (802.11ac80)	5530	85.500	76.000
138 (802.11ac80)	5690	85.500 77.750 for U-NII 2C 7.750 for U-NII 3	76.000 72.750 for U-NII 2C 3.250 for U-NII 3
155 (802.11ac80)	5775	--	76.000

1.2 Test Graphs (The widest bandwidth plots in each UNII band)

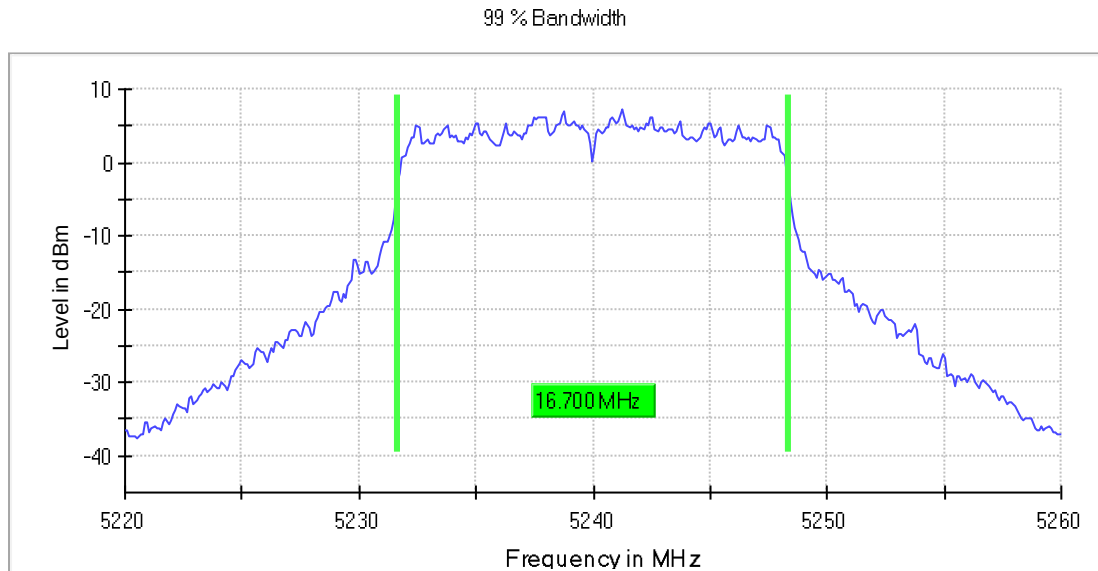
802.11a

26 dB Bandwidth



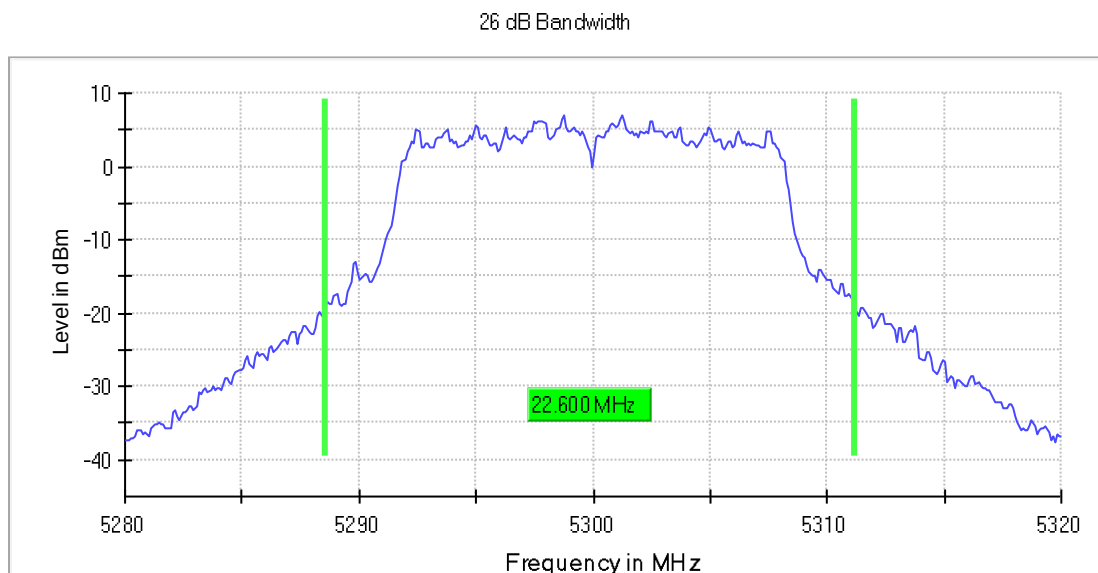
Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.16000 GHz	5.16000 GHz
Stop Frequency	5.20000 GHz	5.20000 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	47.266 µs	AUTO
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	27 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.22 dB	0.30 dB



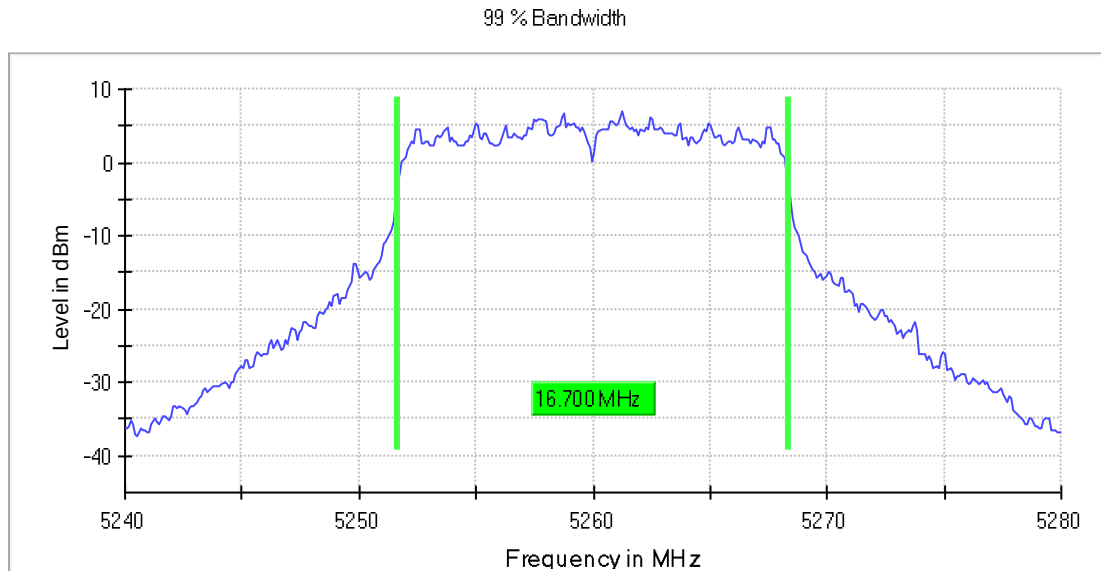
Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.22000 GHz	5.22000 GHz
Stop Frequency	5.26000 GHz	5.26000 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	47.266 μ s	AUTO
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	45 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.00 dB	0.30 dB



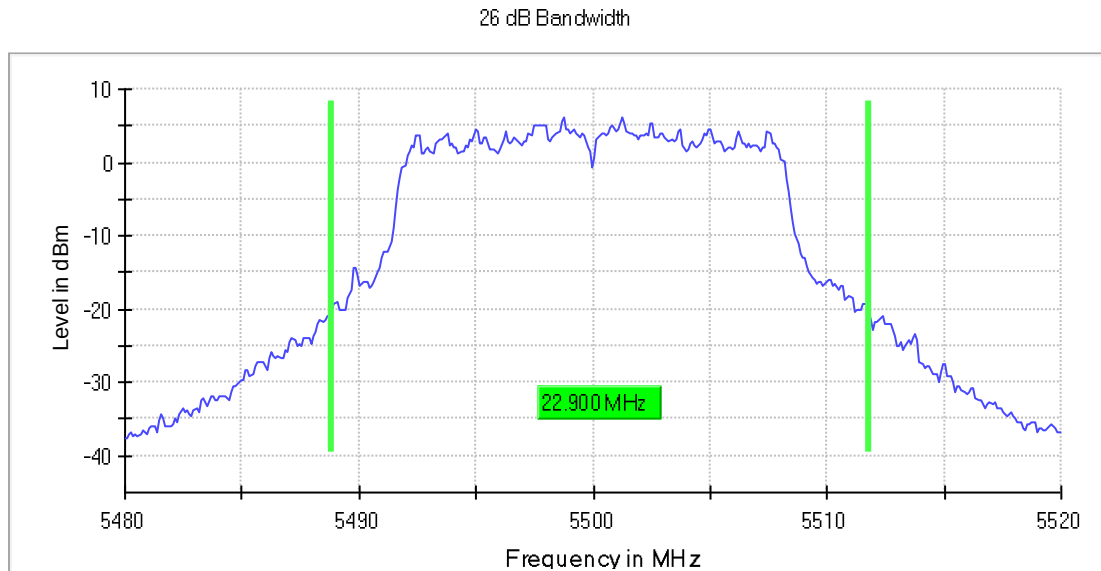
Measurement

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	200.000 kHz	~ 200.000 kHz
VBW	1.000 MHz	>= 600.000 kHz
SweepPoints	400	~ 400
Sweeptime	47.266 μ s	AUTO
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	31 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.12 dB	0.30 dB



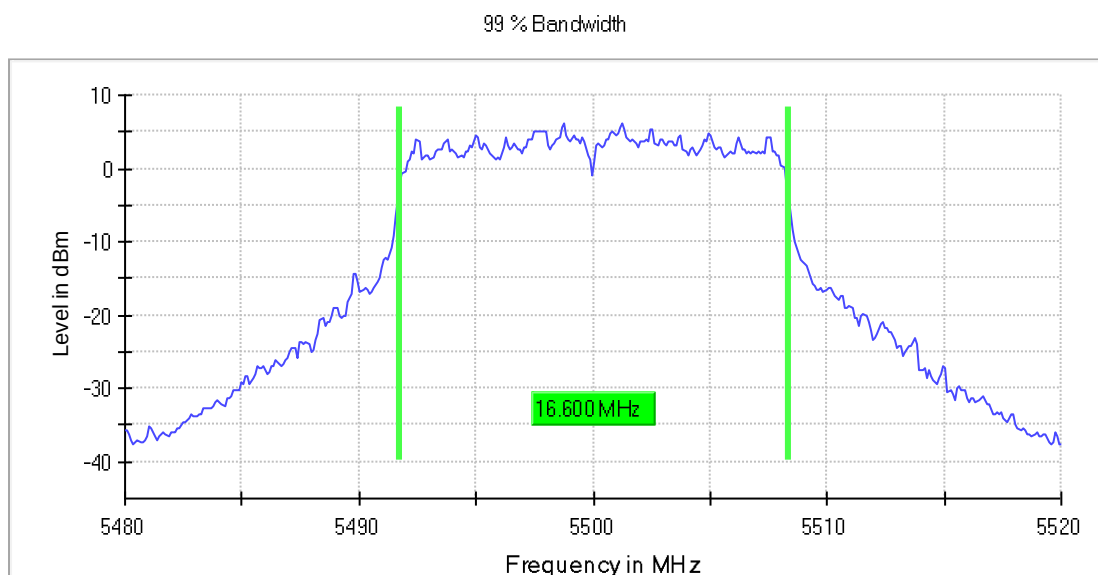
Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.24000 GHz	5.24000 GHz
Stop Frequency	5.28000 GHz	5.28000 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	47.266 µs	AUTO
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	54 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.11 dB	0.30 dB



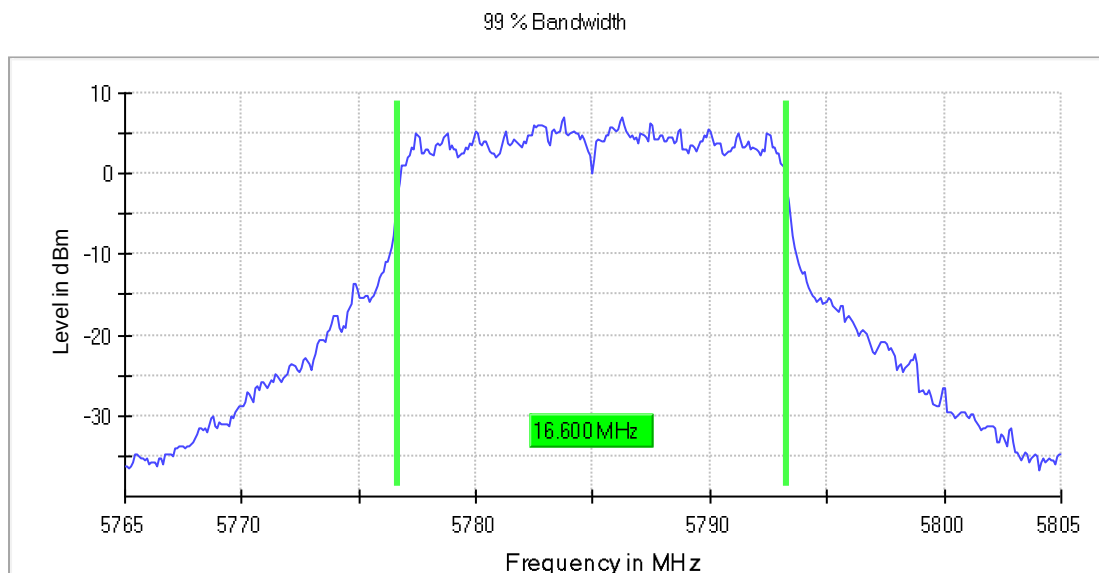
Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.48000 GHz	5.48000 GHz
Stop Frequency	5.52000 GHz	5.52000 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	47.266 µs	AUTO
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	38 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.05 dB	0.30 dB



Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.48000 GHz	5.48000 GHz
Stop Frequency	5.52000 GHz	5.52000 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	47.266 µs	AUTO
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	35 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.29 dB	0.30 dB

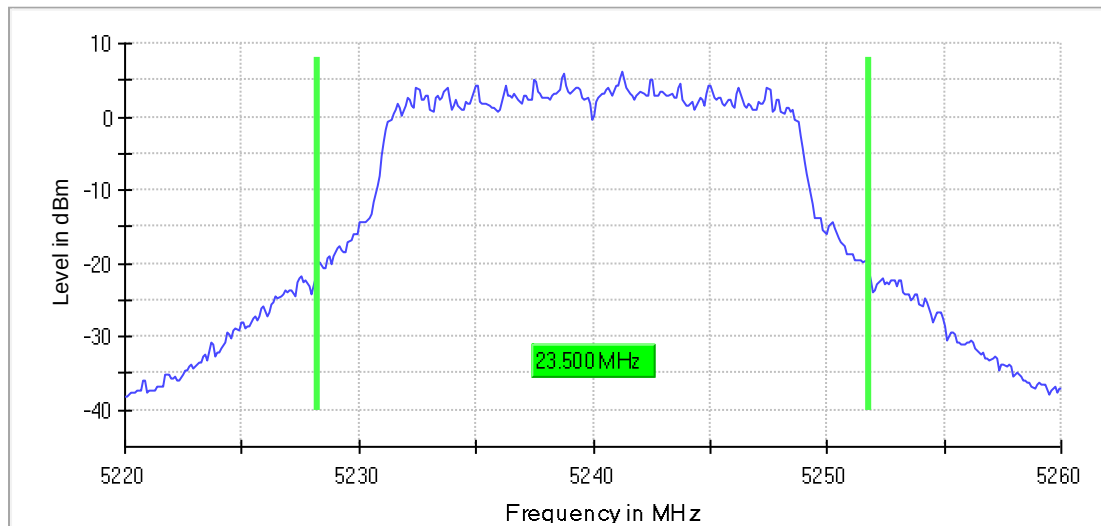


Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.76500 GHz	5.76500 GHz
Stop Frequency	5.80500 GHz	5.80500 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	47.266 μ s	AUTO
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	38 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.08 dB	0.30 dB

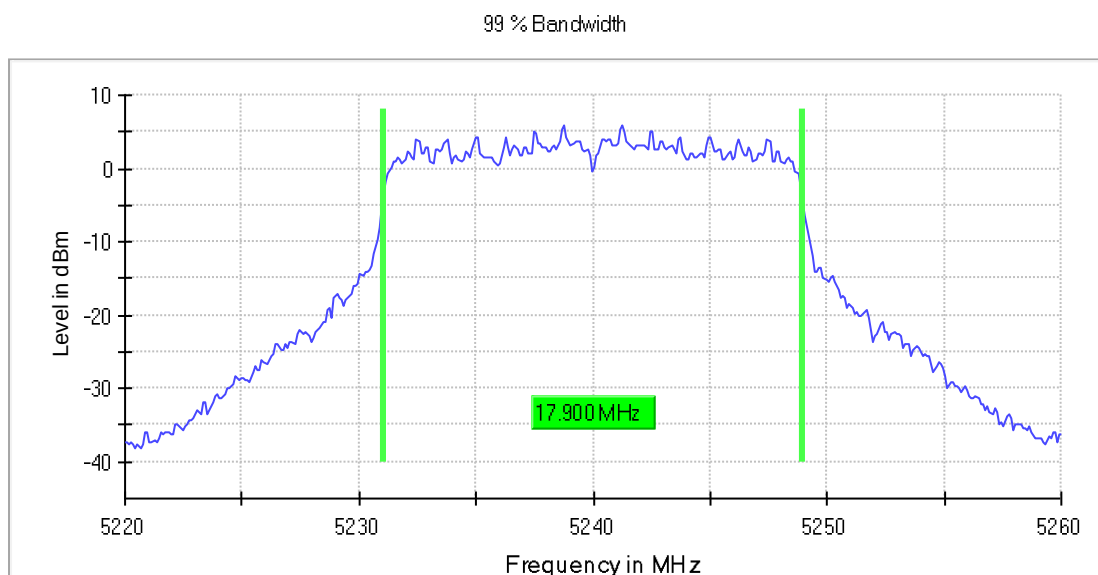
802.11n-HT20

26 dB Bandwidth



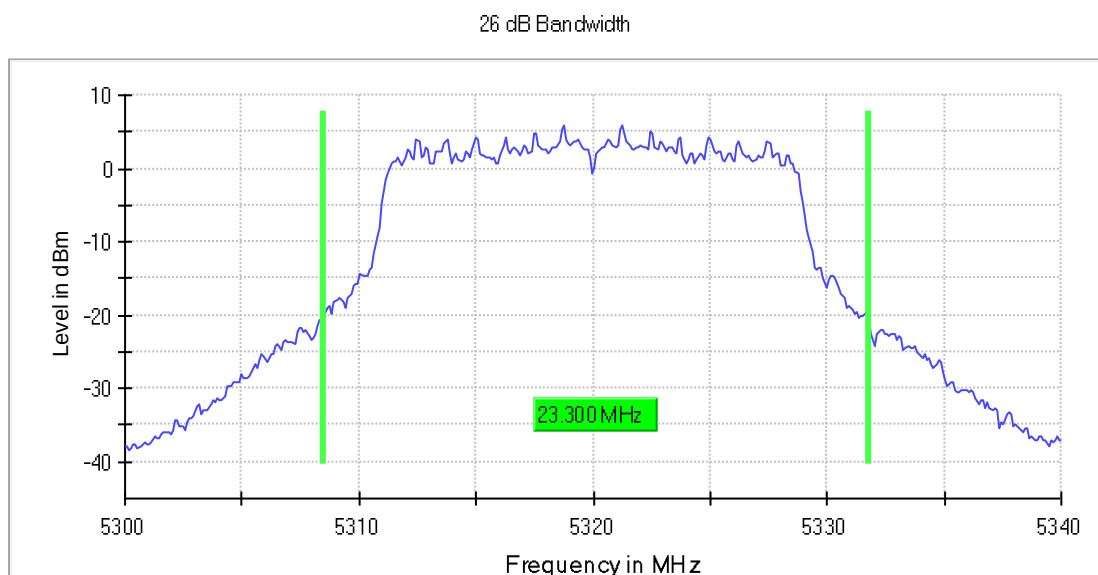
Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.22000 GHz	5.22000 GHz
Stop Frequency	5.26000 GHz	5.26000 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	47.266 µs	AUTO
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	39 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.00 dB	0.30 dB



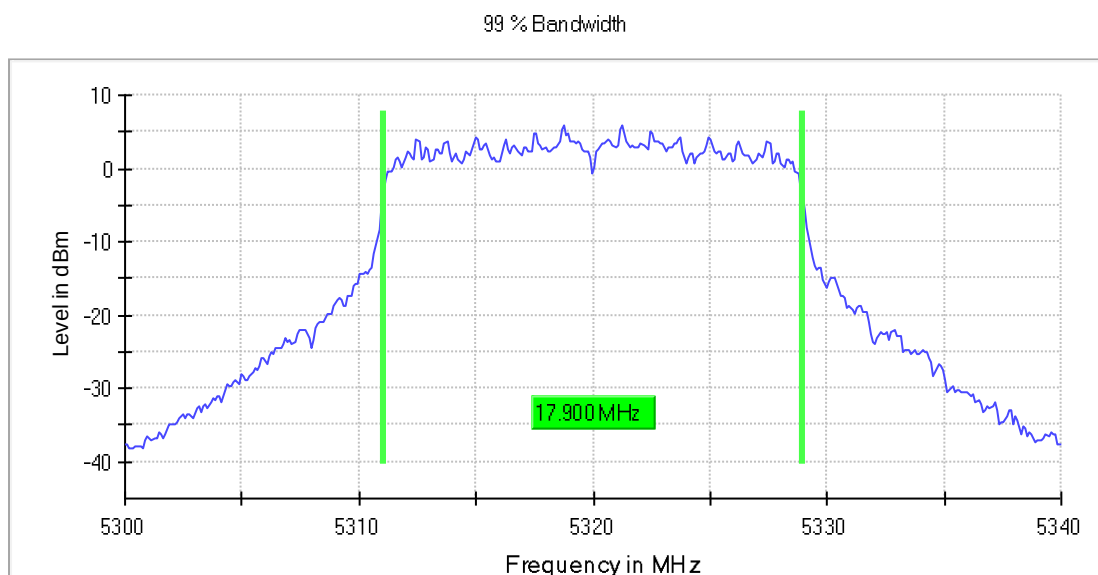
Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.22000 GHz	5.22000 GHz
Stop Frequency	5.26000 GHz	5.26000 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	47.266 µs	AUTO
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	41 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.07 dB	0.30 dB



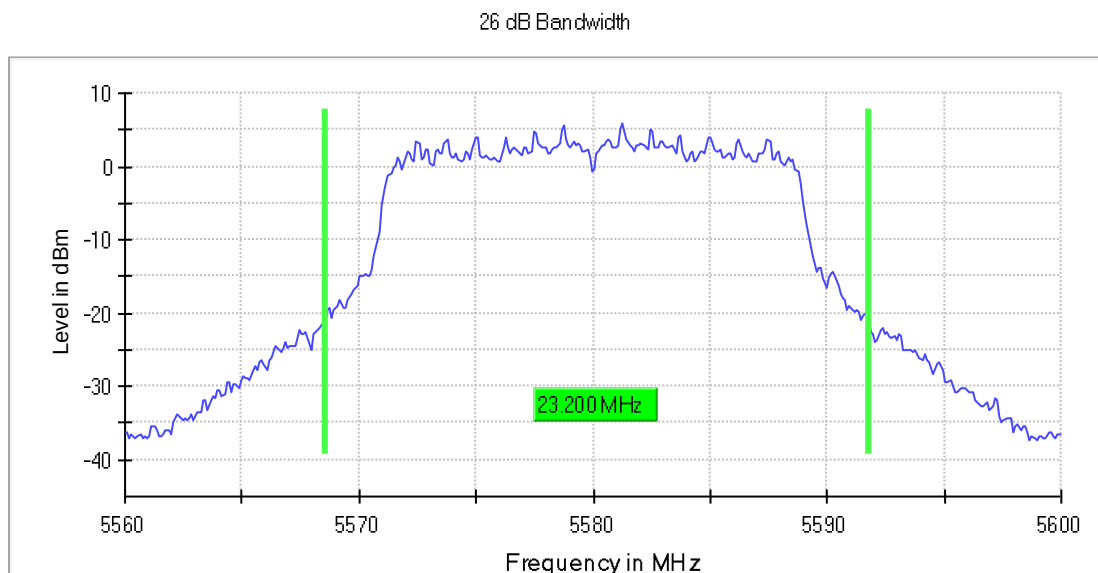
Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.30000 GHz	5.30000 GHz
Stop Frequency	5.34000 GHz	5.34000 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	47.266 µs	AUTO
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	49 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.28 dB	0.30 dB



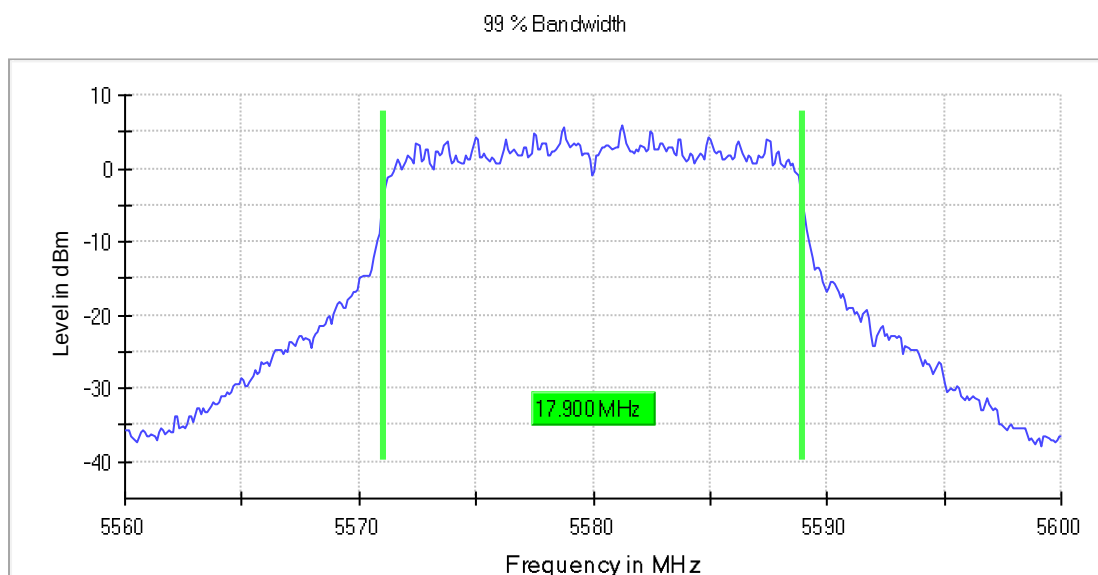
Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.30000 GHz	5.30000 GHz
Stop Frequency	5.34000 GHz	5.34000 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	47.266 µs	AUTO
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	57 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.14 dB	0.30 dB



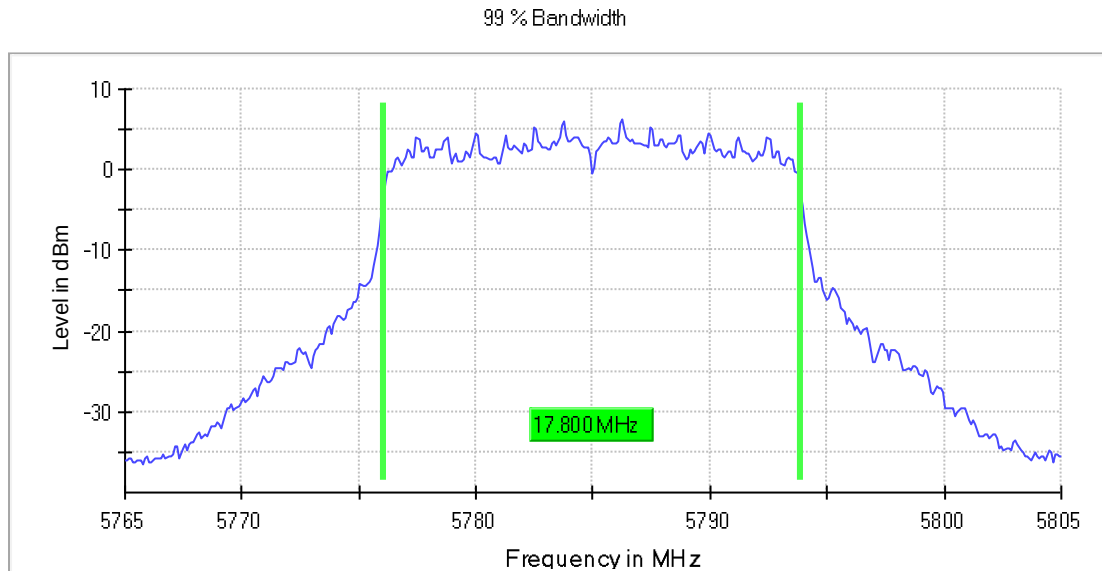
Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.56000 GHz	5.56000 GHz
Stop Frequency	5.60000 GHz	5.60000 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	47.266 µs	AUTO
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	43 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.05 dB	0.30 dB



Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.56000 GHz	5.56000 GHz
Stop Frequency	5.60000 GHz	5.60000 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	47.266 µs	AUTO
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	34 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.17 dB	0.30 dB

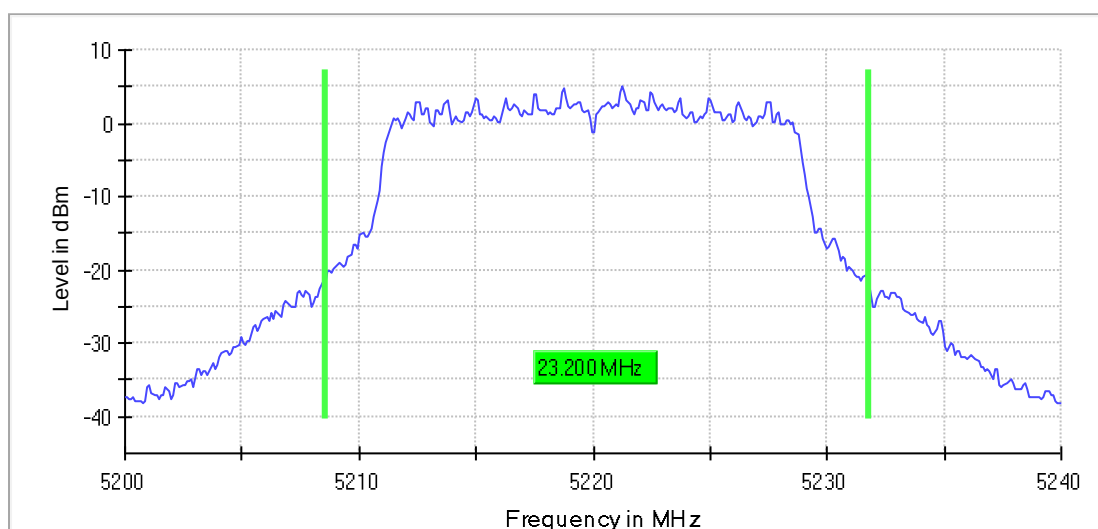


Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.76500 GHz	5.76500 GHz
Stop Frequency	5.80500 GHz	5.80500 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	47.266 µs	AUTO
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	44 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.21 dB	0.30 dB

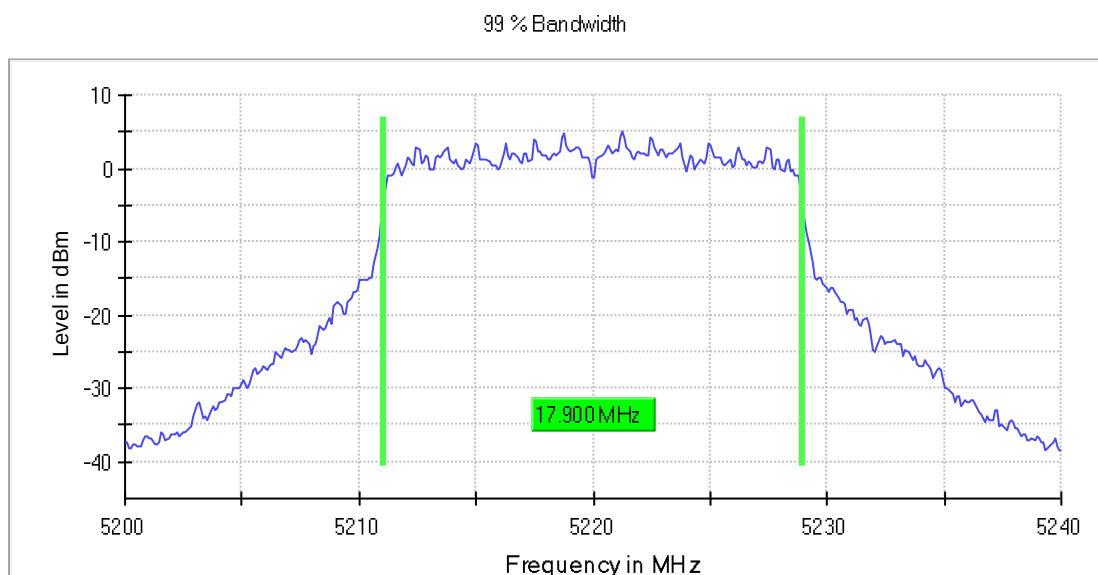
802.11ac20

26 dB Bandwidth



Measurement

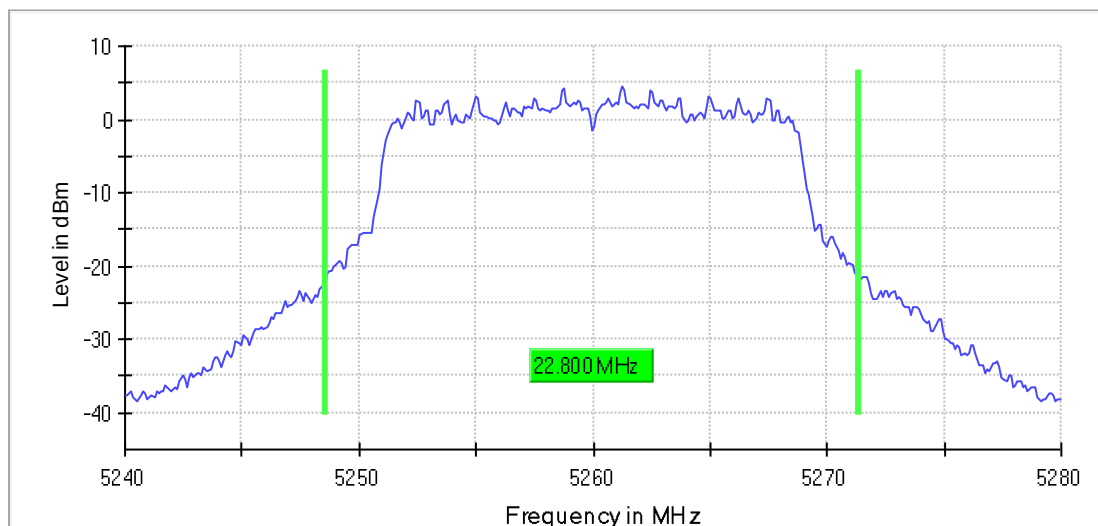
Setting	Instrument Value	Target Value
Start Frequency	5.20000 GHz	5.20000 GHz
Stop Frequency	5.24000 GHz	5.24000 GHz
Span	40.000 MHz	40.000 MHz
RBW	200.000 kHz	~ 200.000 kHz
VBW	1.000 MHz	>= 600.000 kHz
SweepPoints	400	~ 400
Sweeptime	47.266 µs	AUTO
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	33 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.17 dB	0.30 dB



Measurement

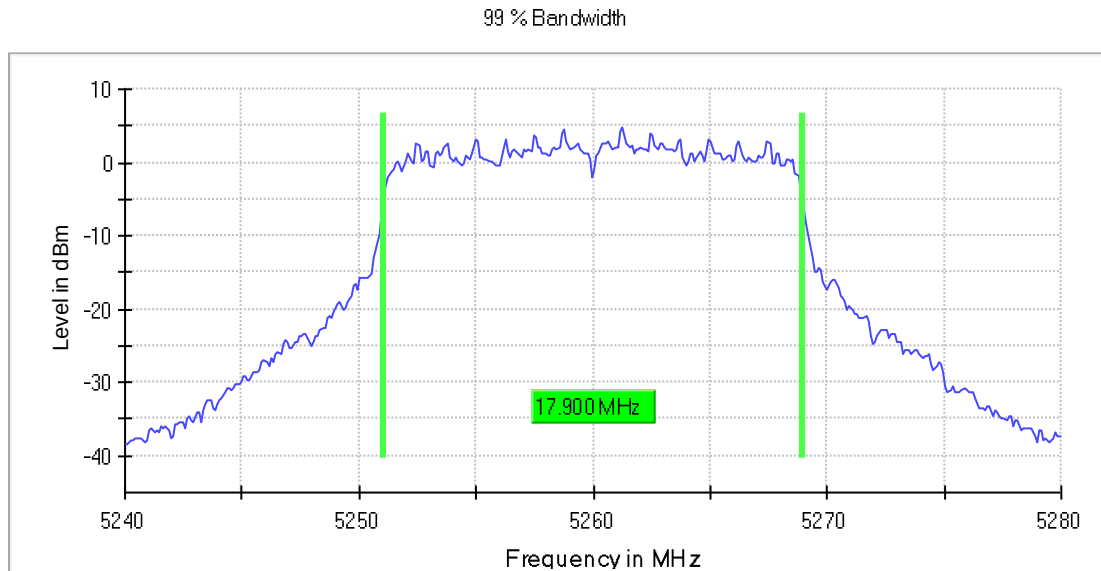
Setting	Instrument Value	Target Value
Start Frequency	5.20000 GHz	5.20000 GHz
Stop Frequency	5.24000 GHz	5.24000 GHz
Span	40.000 MHz	40.000 MHz
RBW	200.000 kHz	>= 200.000 kHz
VBW	1.000 MHz	>= 600.000 kHz
SweepPoints	400	~ 400
SweepTime	47.266 µs	AUTO
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	38 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.06 dB	0.30 dB

26 dB Bandwidth



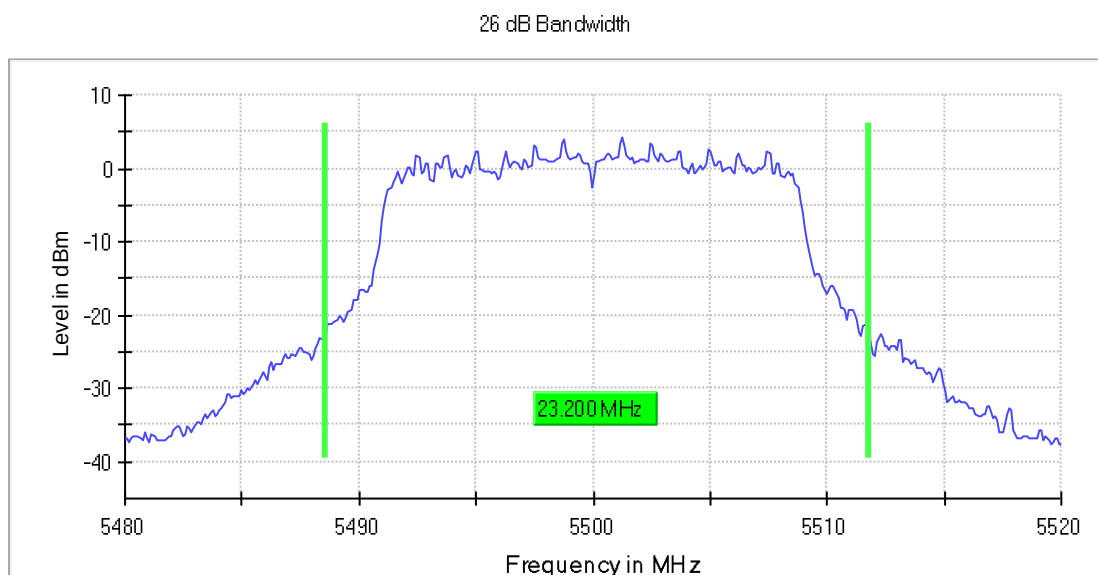
Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.24000 GHz	5.24000 GHz
Stop Frequency	5.28000 GHz	5.28000 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	47.266 µs	AUTO
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	23 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.12 dB	0.30 dB



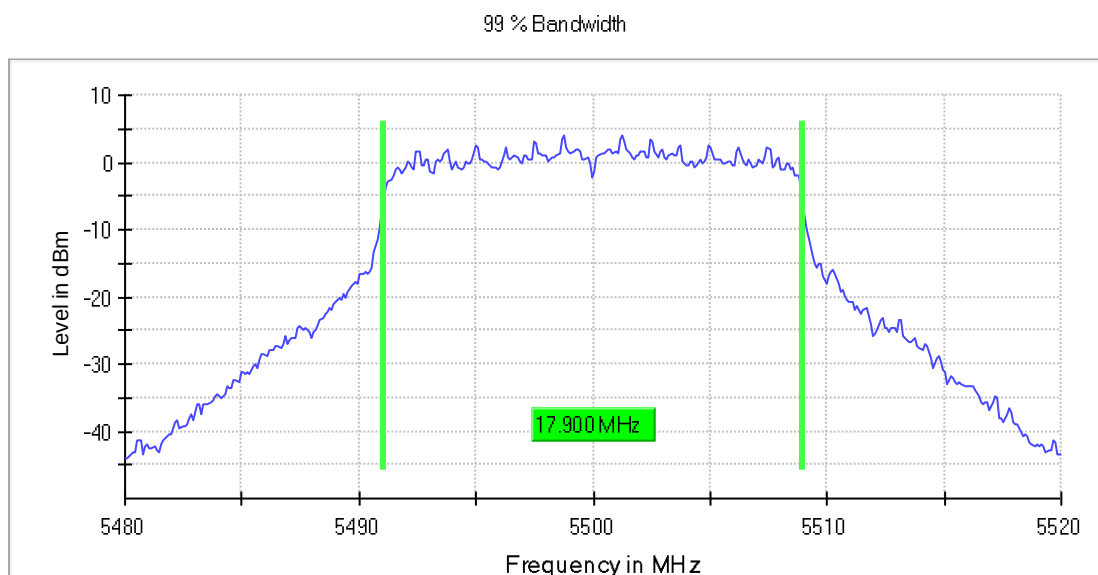
Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.24000 GHz	5.24000 GHz
Stop Frequency	5.28000 GHz	5.28000 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	47.266 µs	AUTO
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	48 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.02 dB	0.30 dB



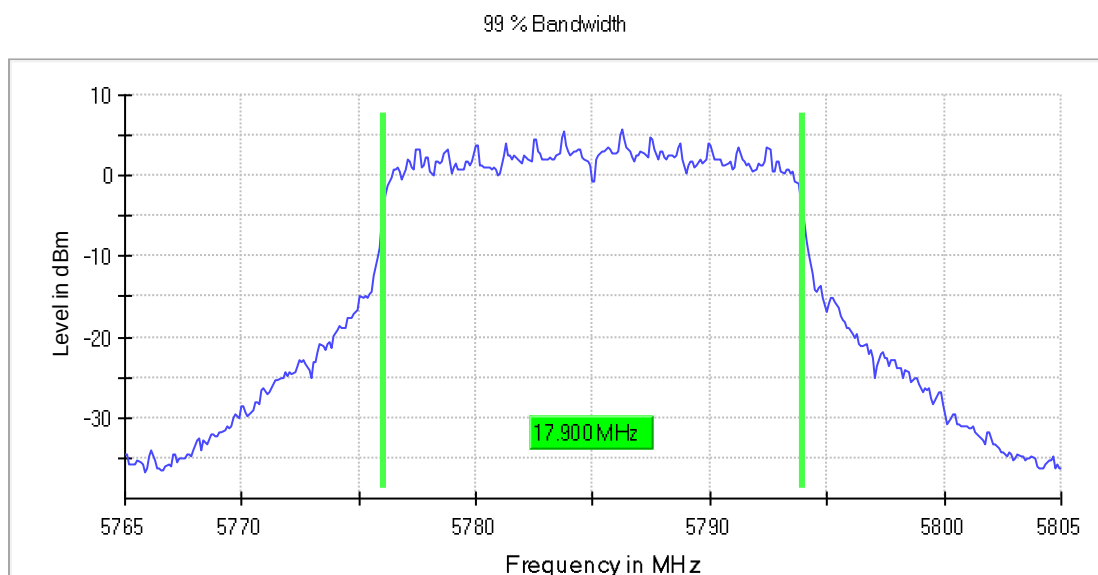
Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.48000 GHz	5.48000 GHz
Stop Frequency	5.52000 GHz	5.52000 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	47.266 µs	AUTO
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	42 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.13 dB	0.30 dB



Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.48000 GHz	5.48000 GHz
Stop Frequency	5.52000 GHz	5.52000 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	47.266 µs	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	46 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.18 dB	0.30 dB

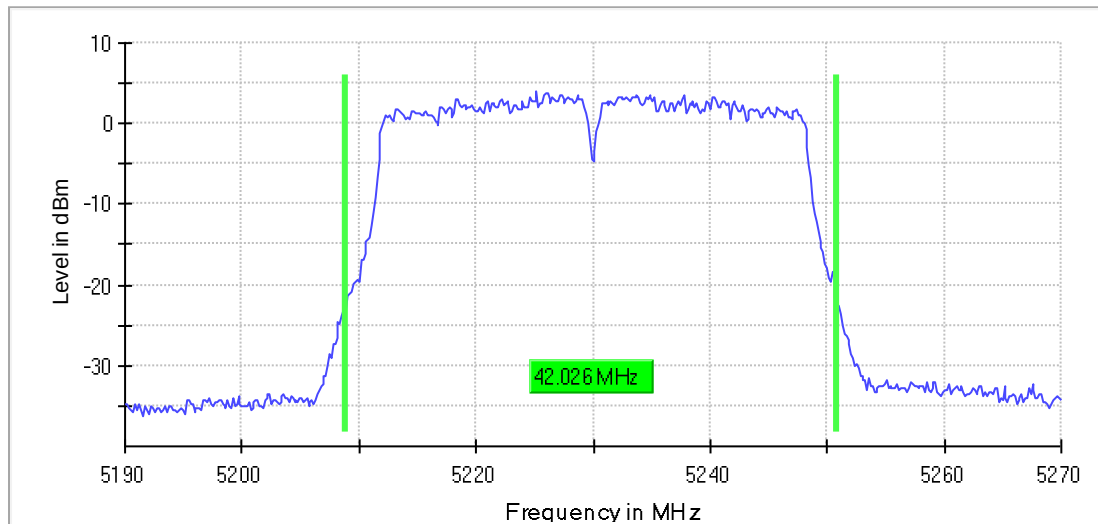


Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.76500 GHz	5.76500 GHz
Stop Frequency	5.80500 GHz	5.80500 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	47.266 µs	AUTO
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	55 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.07 dB	0.30 dB

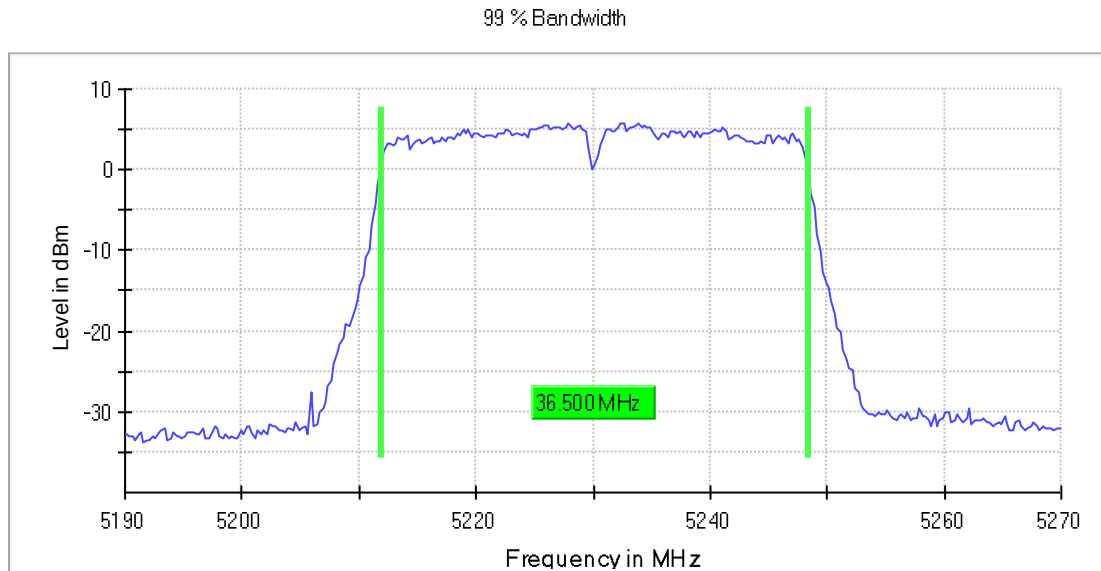
802.11n-HT40

26 dB Bandwidth



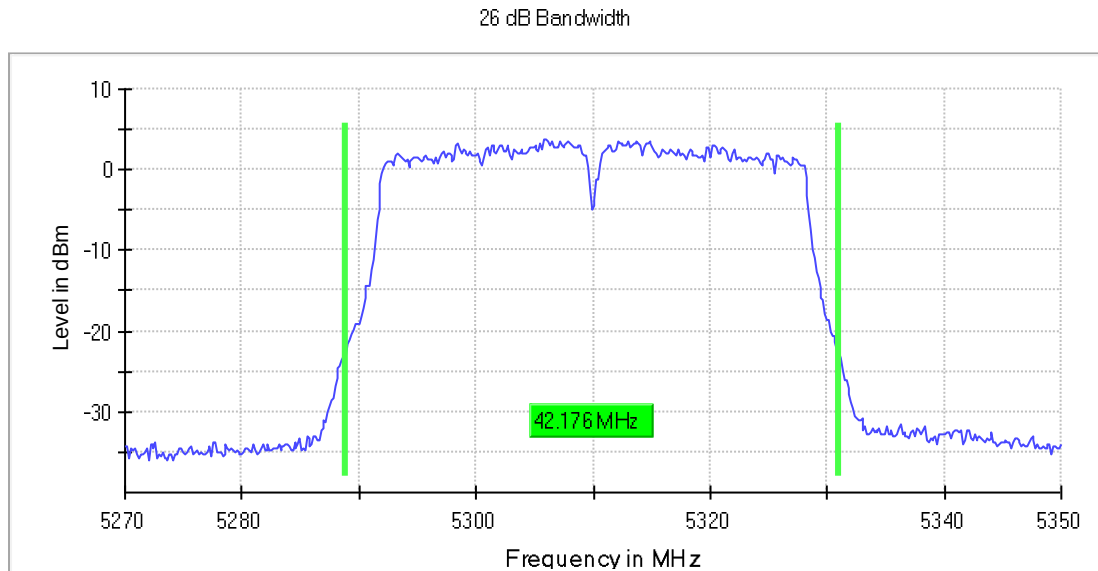
Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.19000 GHz	5.19000 GHz
Stop Frequency	5.27000 GHz	5.27000 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	1.000 ms	AUTO
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	101 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.27 dB	0.30 dB



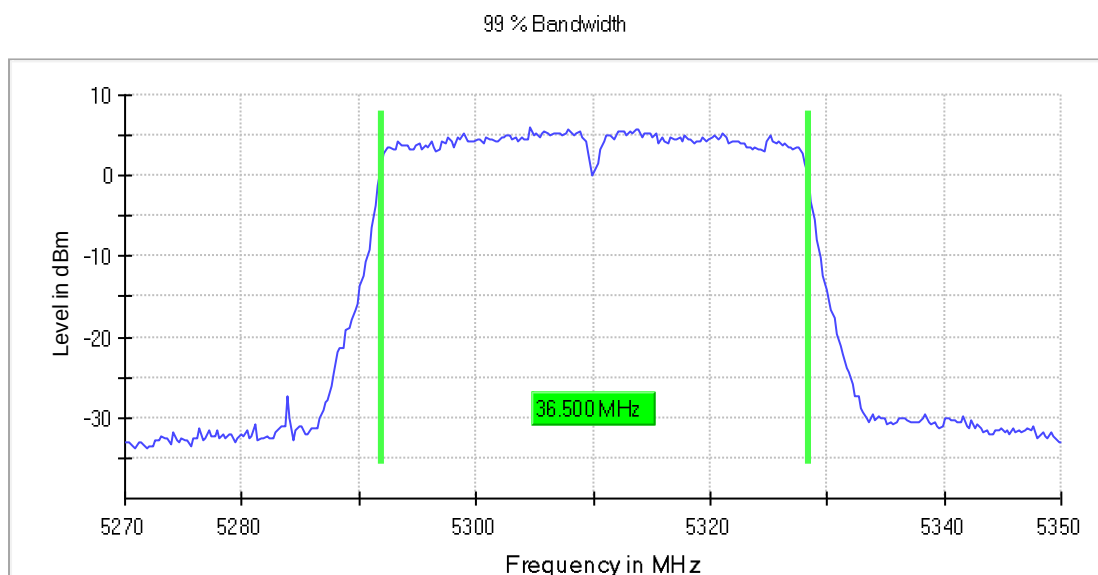
Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.19000 GHz	5.19000 GHz
Stop Frequency	5.27000 GHz	5.27000 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
Sweptime	1.000 ms	AUTO
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	44 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.03 dB	0.30 dB



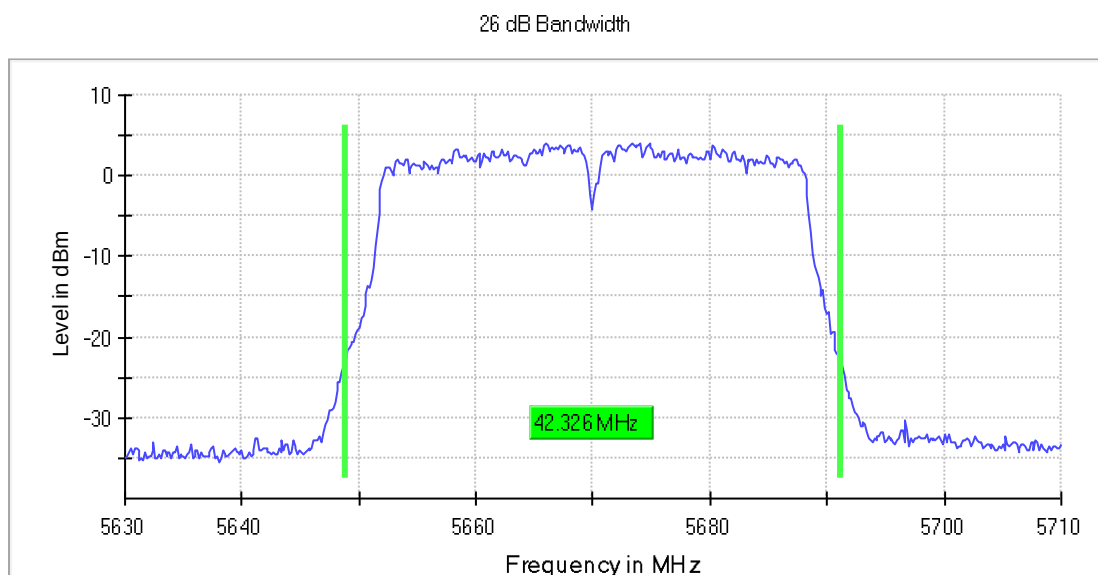
Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.27000 GHz	5.27000 GHz
Stop Frequency	5.35000 GHz	5.35000 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	1.000 ms	AUTO
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	87 / max. 150	max. 150
Stable	5 / 5	5



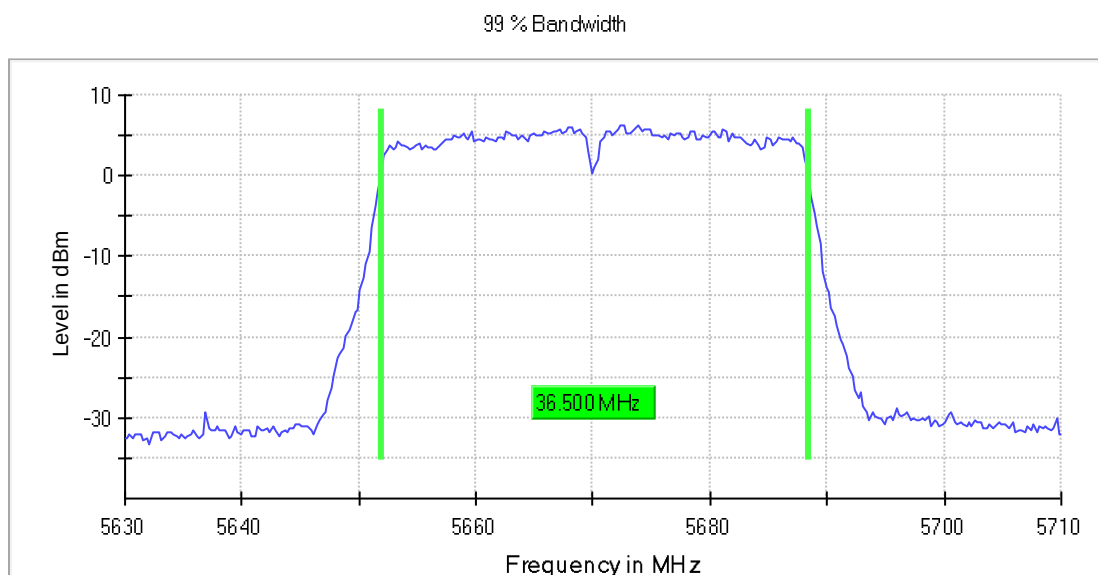
Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.27000 GHz	5.27000 GHz
Stop Frequency	5.35000 GHz	5.35000 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	1.000 ms	AUTO
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	42 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.04 dB	0.30 dB



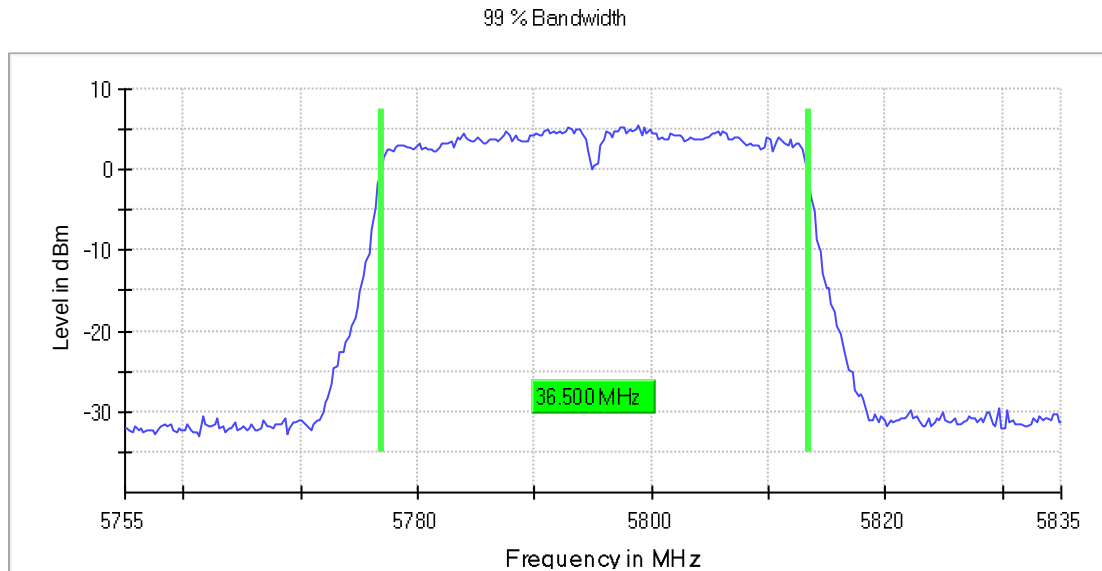
Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.63000 GHz	5.63000 GHz
Stop Frequency	5.71000 GHz	5.71000 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	1.000 ms	AUTO
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	82 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.28 dB	0.30 dB



Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.63000 GHz	5.63000 GHz
Stop Frequency	5.71000 GHz	5.71000 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	1.000 ms	AUTO
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	56 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.20 dB	0.30 dB

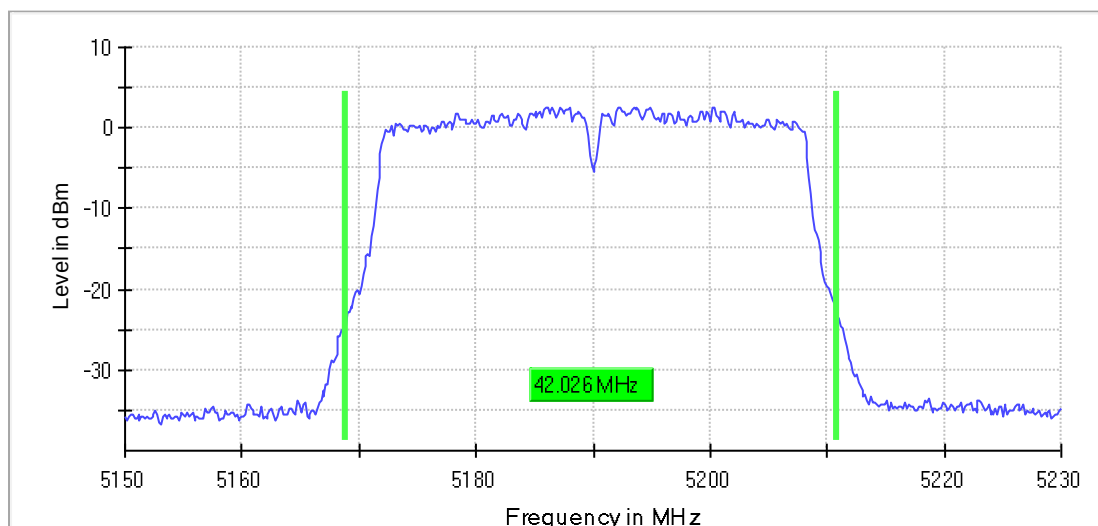


Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.75500 GHz	5.75500 GHz
Stop Frequency	5.83500 GHz	5.83500 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	1.000 ms	AUTO
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamplifier	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	25 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.06 dB	0.30 dB

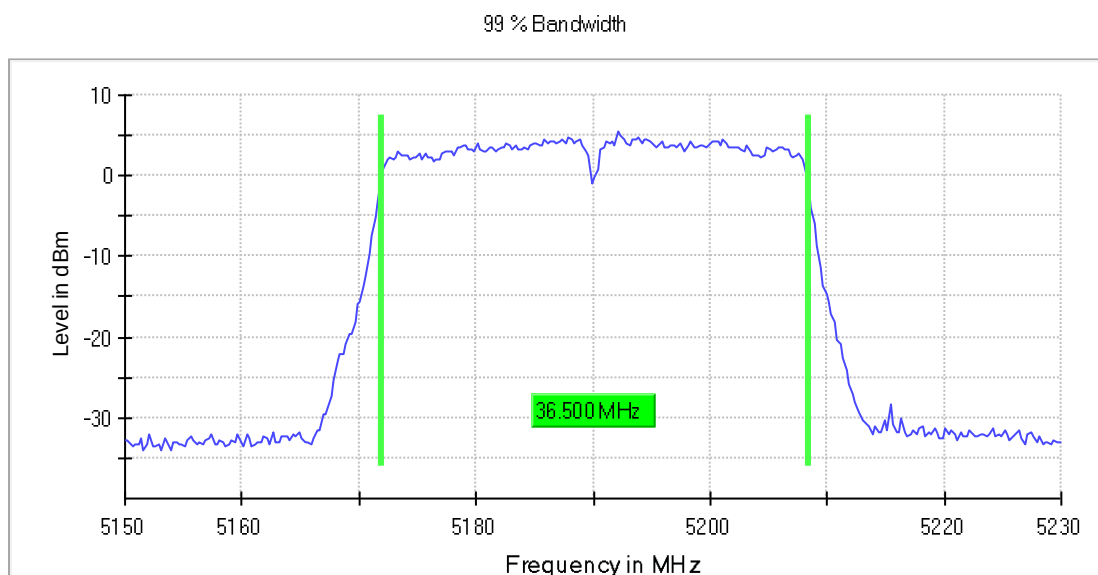
802.11ac40

26 dB Bandwidth



Measurement

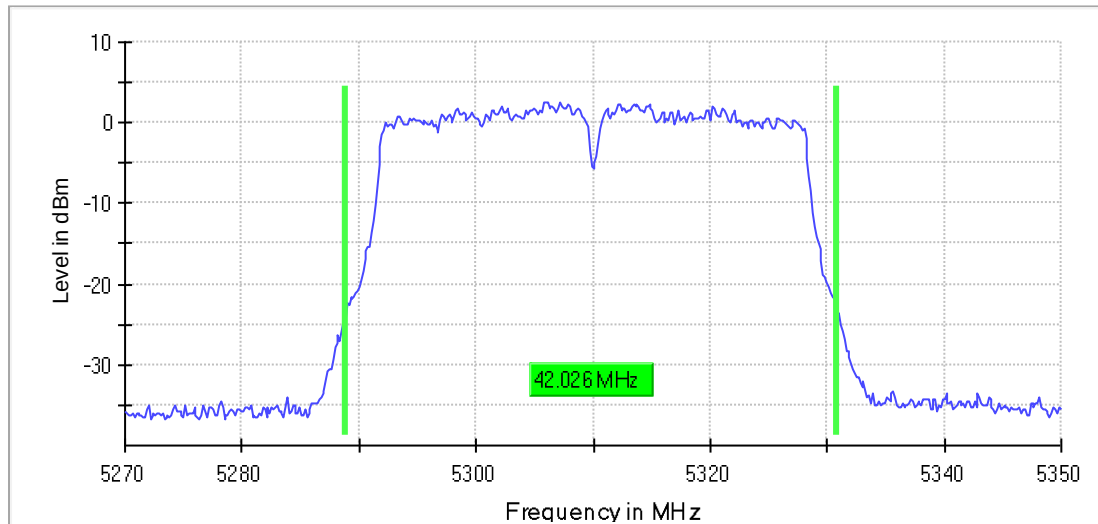
Setting	Instrument Value	Target Value
Start Frequency	5.15000 GHz	5.15000 GHz
Stop Frequency	5.23000 GHz	5.23000 GHz
Span	80.000 MHz	80.000 MHz
RBW	300.000 kHz	~ 400.000 kHz
VBW	1.000 MHz	>= 900.000 kHz
SweepPoints	533	~ 533
SweepTime	1.000 ms	AUTO
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	66 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.13 dB	0.30 dB



Measurement

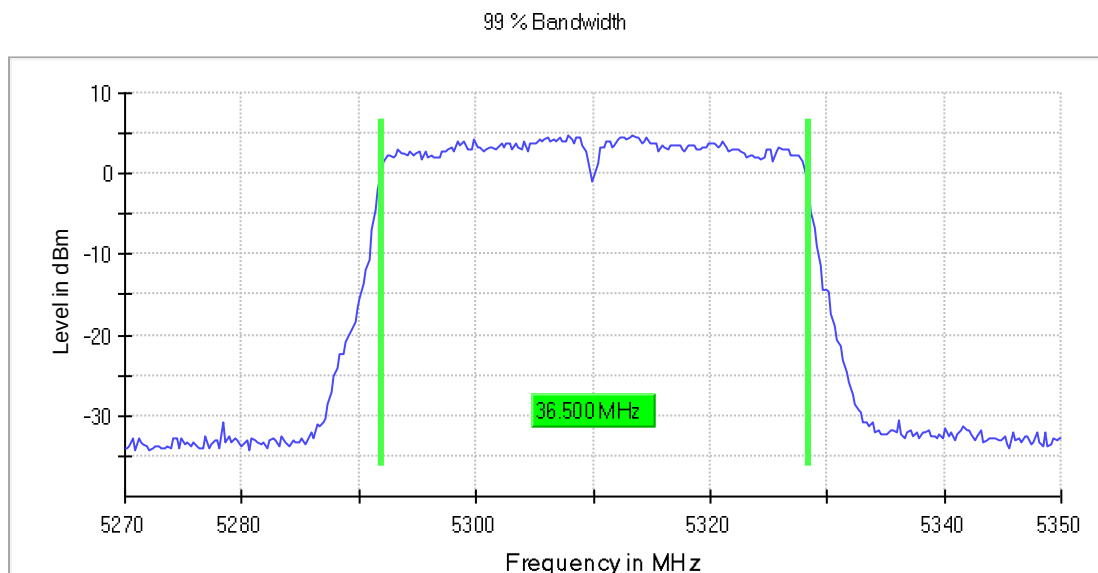
Setting	Instrument Value	Target Value
Start Frequency	5.15000 GHz	5.15000 GHz
Stop Frequency	5.23000 GHz	5.23000 GHz
Span	80.000 MHz	80.000 MHz
RBW	500.000 kHz	>= 400.000 kHz
VBW	2.000 MHz	>= 1.500 MHz
SweepPoints	320	~ 320
SweepTime	1.000 ms	AUTO
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	54 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.13 dB	0.30 dB

26 dB Bandwidth



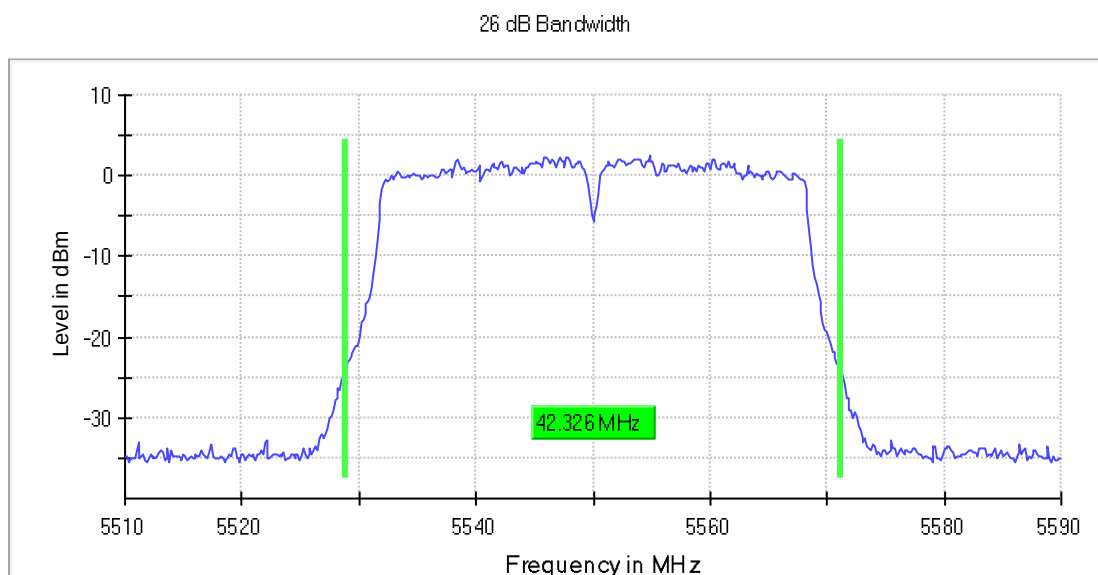
Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.27000 GHz	5.27000 GHz
Stop Frequency	5.35000 GHz	5.35000 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	1.000 ms	AUTO
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	40 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.26 dB	0.30 dB



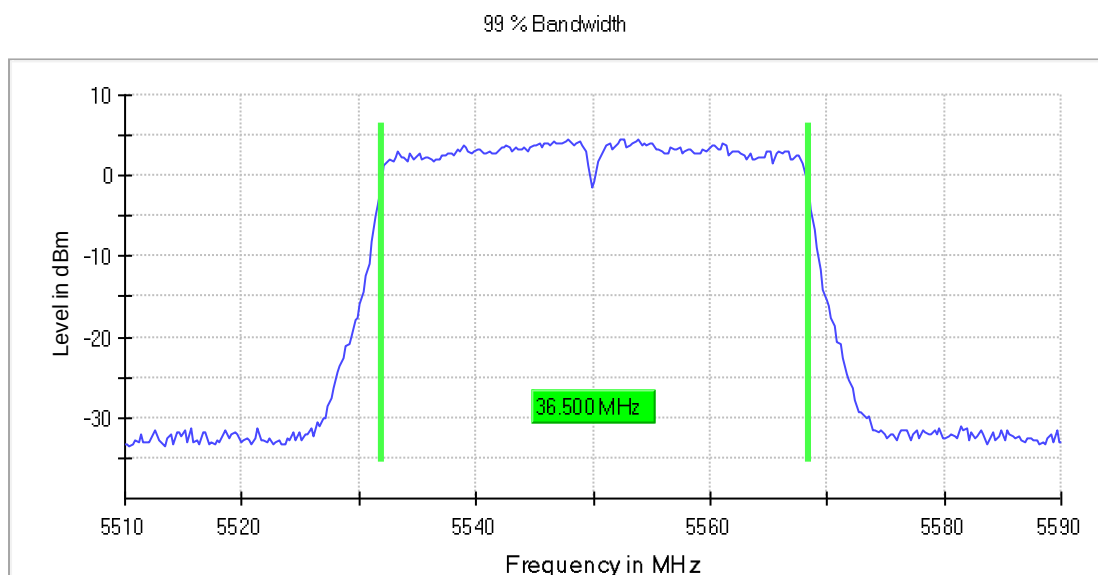
Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.27000 GHz	5.27000 GHz
Stop Frequency	5.35000 GHz	5.35000 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	1.000 ms	AUTO
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	29 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.23 dB	0.30 dB



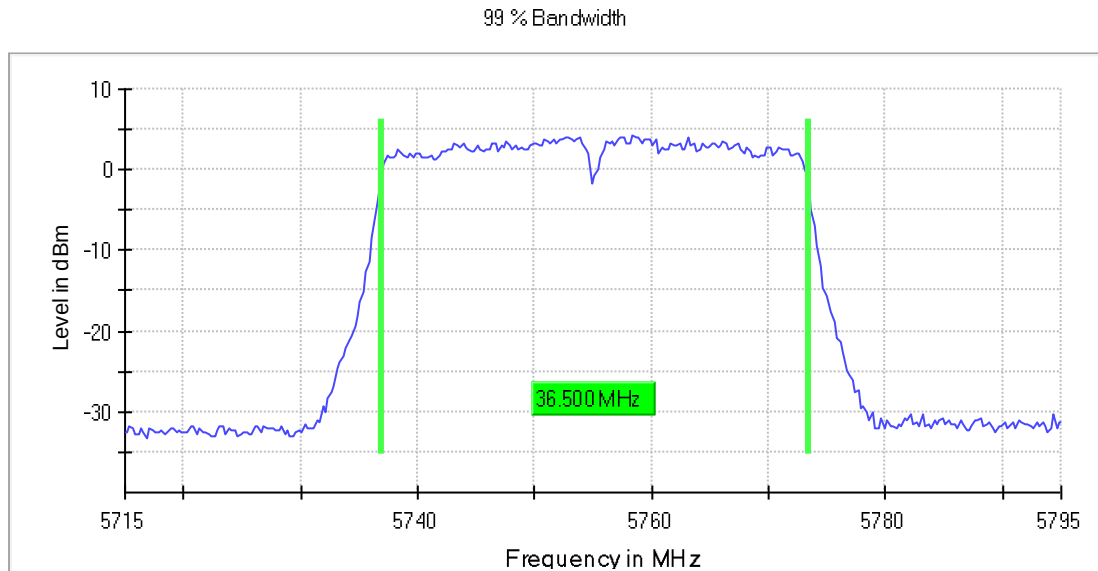
Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.51000 GHz	5.51000 GHz
Stop Frequency	5.59000 GHz	5.59000 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	1.000 ms	AUTO
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	101 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.15 dB	0.30 dB



Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.51000 GHz	5.51000 GHz
Stop Frequency	5.59000 GHz	5.59000 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	1.000 ms	AUTO
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	28 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.16 dB	0.30 dB

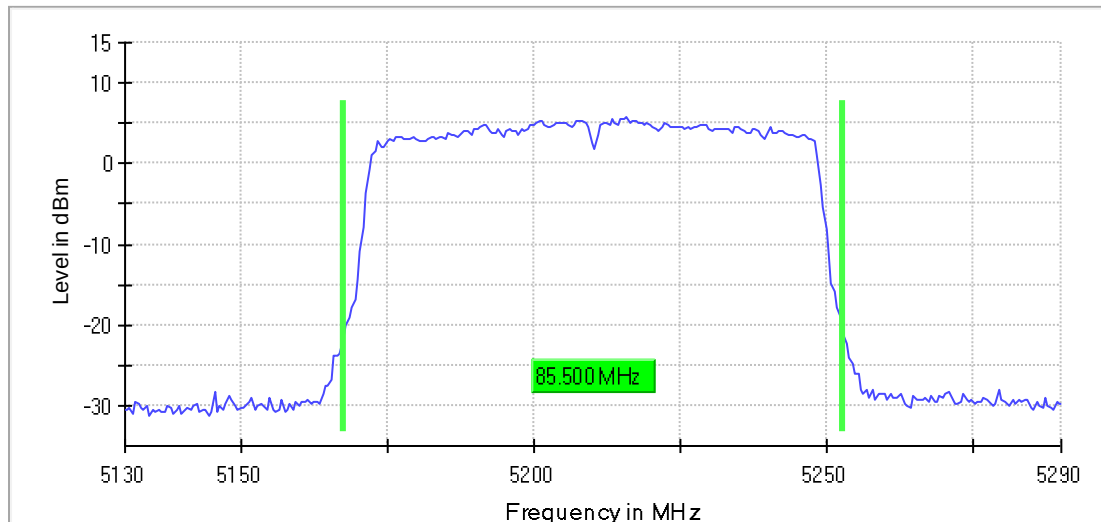


Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.71500 GHz	5.71500 GHz
Stop Frequency	5.79500 GHz	5.79500 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	1.000 ms	AUTO
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	40 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.14 dB	0.30 dB

802.11ac80

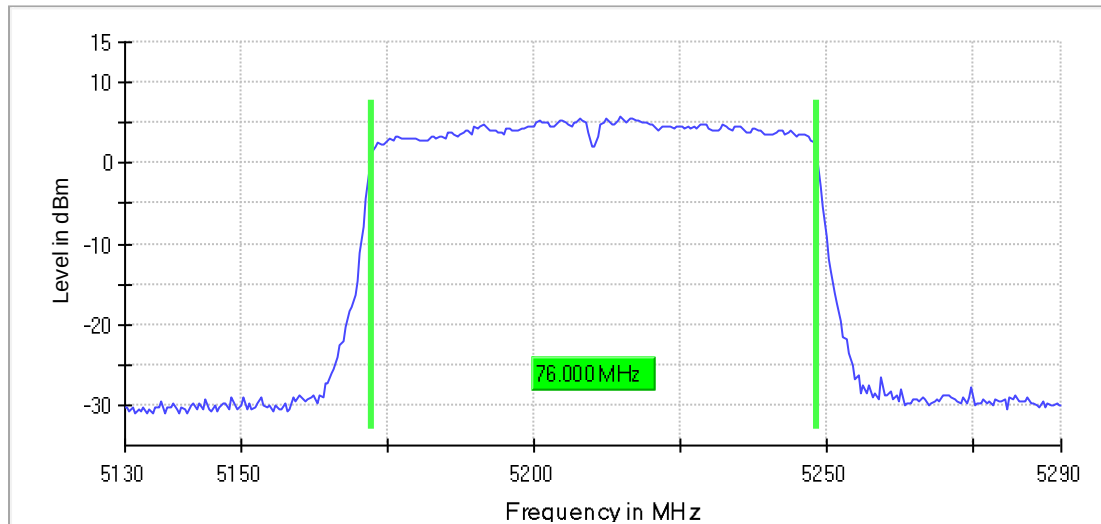
26 dB Bandwidth



Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.13000 GHz	5.13000 GHz
Stop Frequency	5.29000 GHz	5.29000 GHz
Span	160.000 MHz	160.000 MHz
RBW	1.000 MHz	~ 800.000 kHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	320	~ 320
Sweeptime	1.000 ms	AUTO
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	35 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.18 dB	0.30 dB

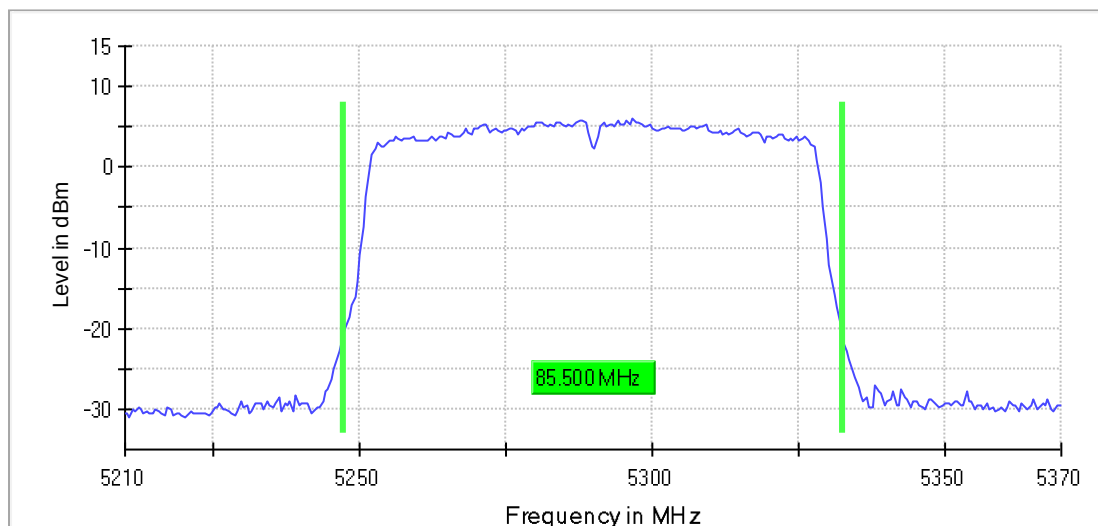
99 % Bandwidth



Measurement

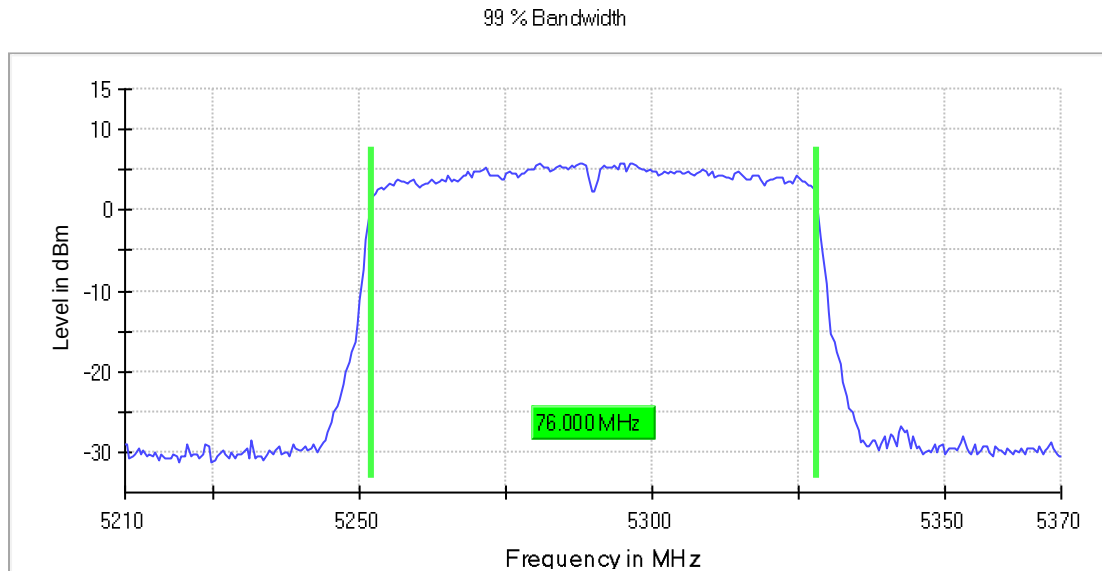
Setting	Instrument Value	Target Value
Start Frequency	5.13000 GHz	5.13000 GHz
Stop Frequency	5.29000 GHz	5.29000 GHz
Span	160.000 MHz	160.000 MHz
RBW	1.000 MHz	>= 800.000 kHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	320	~ 320
Sweeptime	1.000 ms	AUTO
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	46 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.01 dB	0.30 dB

26 dB Bandwidth



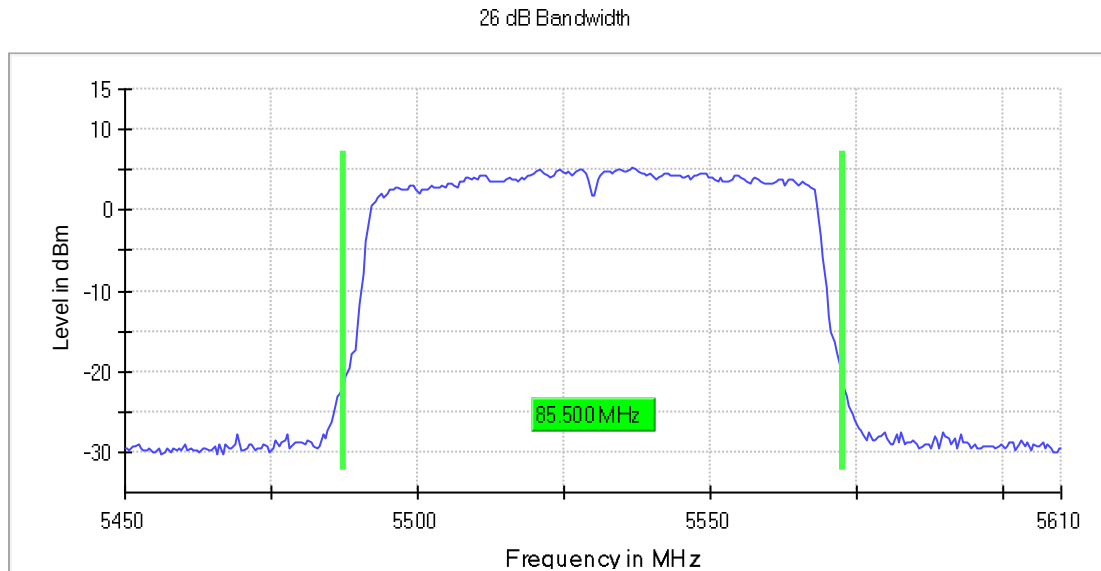
Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.21000 GHz	5.21000 GHz
Stop Frequency	5.37000 GHz	5.37000 GHz
Span	160.000 MHz	160.000 MHz
RBW	1.000 MHz	~ 800.000 kHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	320	~ 320
Sweptime	1.000 ms	AUTO
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	37 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.24 dB	0.30 dB



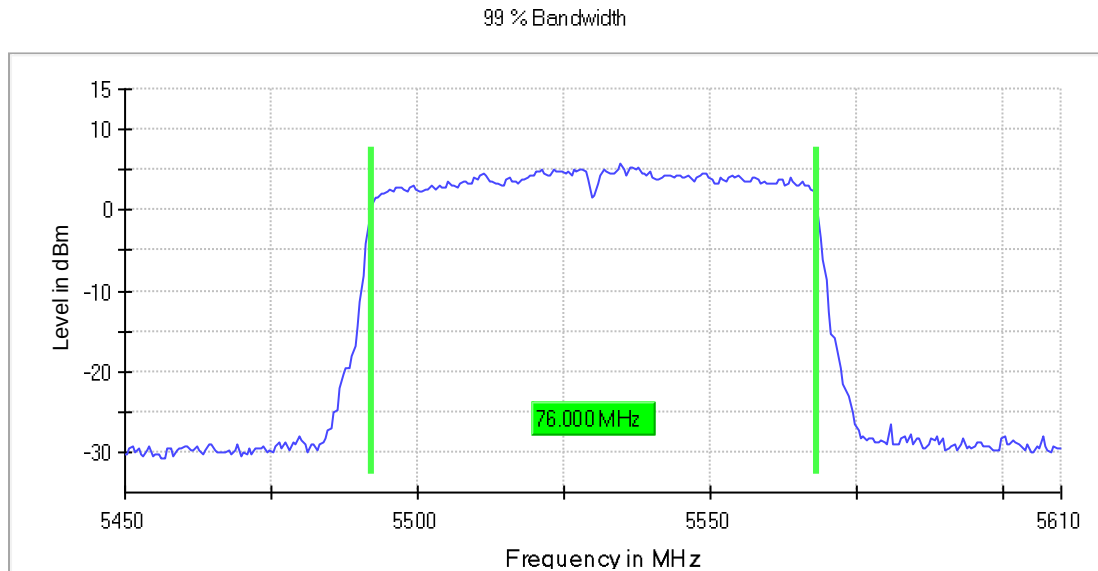
Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.21000 GHz	5.21000 GHz
Stop Frequency	5.37000 GHz	5.37000 GHz
Span	160.000 MHz	160.000 MHz
RBW	1.000 MHz	>= 800.000 kHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	320	~ 320
Sweptime	1.000 ms	AUTO
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	25 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.21 dB	0.30 dB



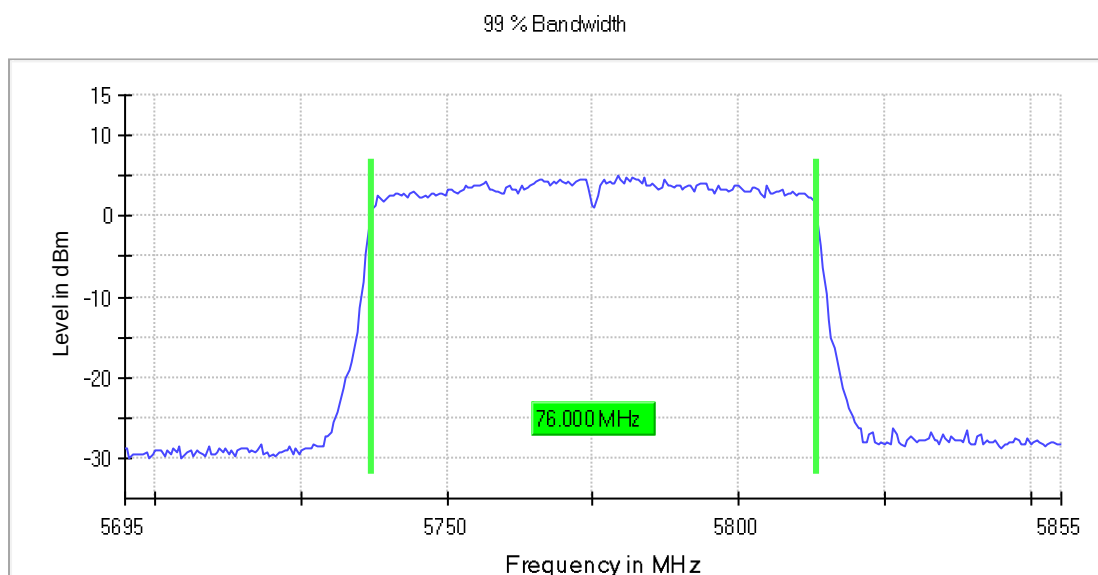
Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.45000 GHz	5.45000 GHz
Stop Frequency	5.61000 GHz	5.61000 GHz
Span	160.000 MHz	160.000 MHz
RBW	1.000 MHz	~ 800.000 kHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	320	~ 320
Sweeptime	1.000 ms	AUTO
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	48 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.00 dB	0.30 dB



Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.45000 GHz	5.45000 GHz
Stop Frequency	5.61000 GHz	5.61000 GHz
Span	160.000 MHz	160.000 MHz
RBW	1.000 MHz	≥ 800.000 kHz
VBW	3.000 MHz	≥ 3.000 MHz
SweepPoints	320	~ 320
Sweeptime	1.000 ms	AUTO
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	32 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.10 dB	0.30 dB



Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.69500 GHz	5.69500 GHz
Stop Frequency	5.85500 GHz	5.85500 GHz
Span	160.000 MHz	160.000 MHz
RBW	1.000 MHz	>= 800.000 kHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	320	~ 320
SweepTime	1.000 ms	AUTO
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	44 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.10 dB	0.30 dB

2. 6dB Bandwidth

2.1 Test Datas

Channel (mode)	Channel Frequency (MHz)	Emissions bandwidth
		6dB Bandwidth (MHz)
149 (802.11a)	5745	15.600
157 (802.11a)	5785	15.750
165 (802.11a)	5825	15.750

Channel (mode)	Channel Frequency (MHz)	Emissions bandwidth
		6dB Bandwidth (MHz)
149 (802.11n-HT20)	5745	16.650
157 (802.11n-HT20)	5785	16.650
165 (802.11n-HT20)	5825	16.650

Channel (mode)	Channel Frequency (MHz)	Emissions bandwidth
		6dB Bandwidth (MHz)
149 (802.11ac20)	5745	16.900
157 (802.11ac20)	5785	16.650
165 (802.11ac20)	5825	16.650

Channel (mode)	Channel Frequency (MHz)	Emissions bandwidth
		6dB Bandwidth (MHz)
151 (802.11n-HT40)	5755	33.450
159 (802.11n-HT40)	5795	33.750

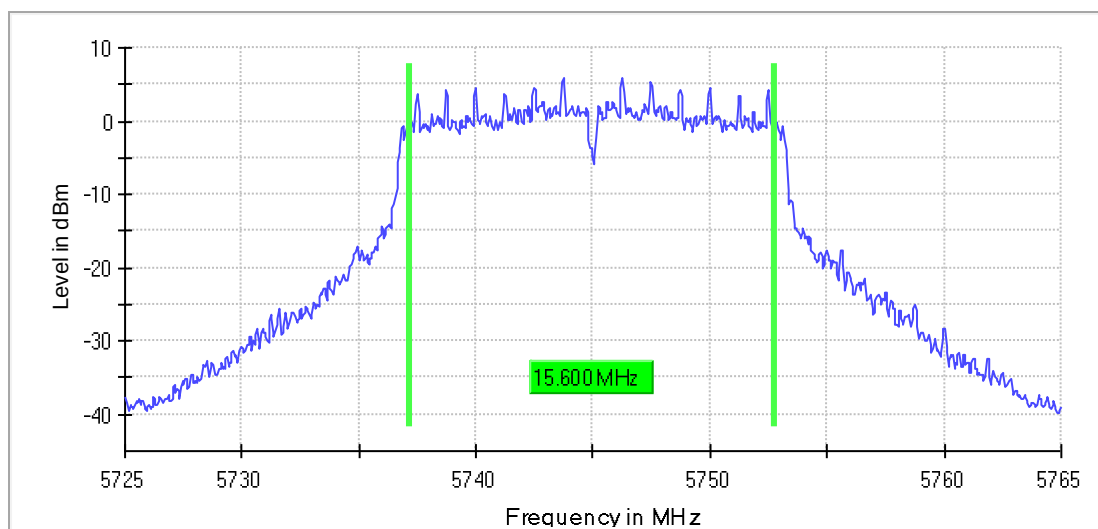
Channel (mode)	Channel Frequency (MHz)	Emissions bandwidth
		6dB Bandwidth (MHz)
151 (802.11ac40)	5755	35.650
159 (802.11ac40)	5795	35.650

Channel (mode)	Channel Frequency (MHz)	Emissions bandwidth
		6dB Bandwidth (MHz)
155 (802.11ac80)	5775	75.200

2.2 Test Graphs

802.11a

6 dB Bandwidth

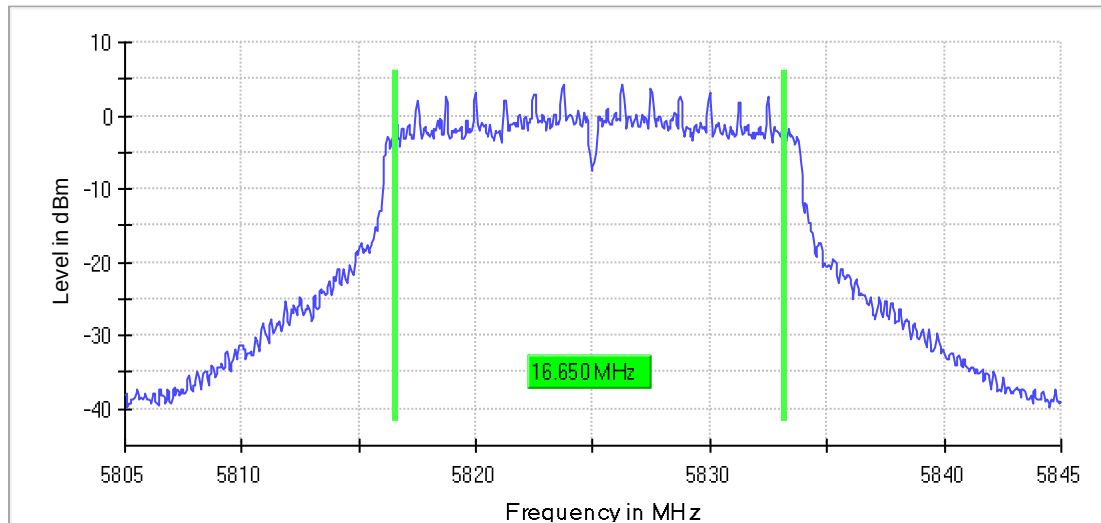


Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.72500 GHz	5.72500 GHz
Stop Frequency	5.76500 GHz	5.76500 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	94.922 µs	AUTO
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	70 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.12 dB	0.30 dB

802.11n-HT20

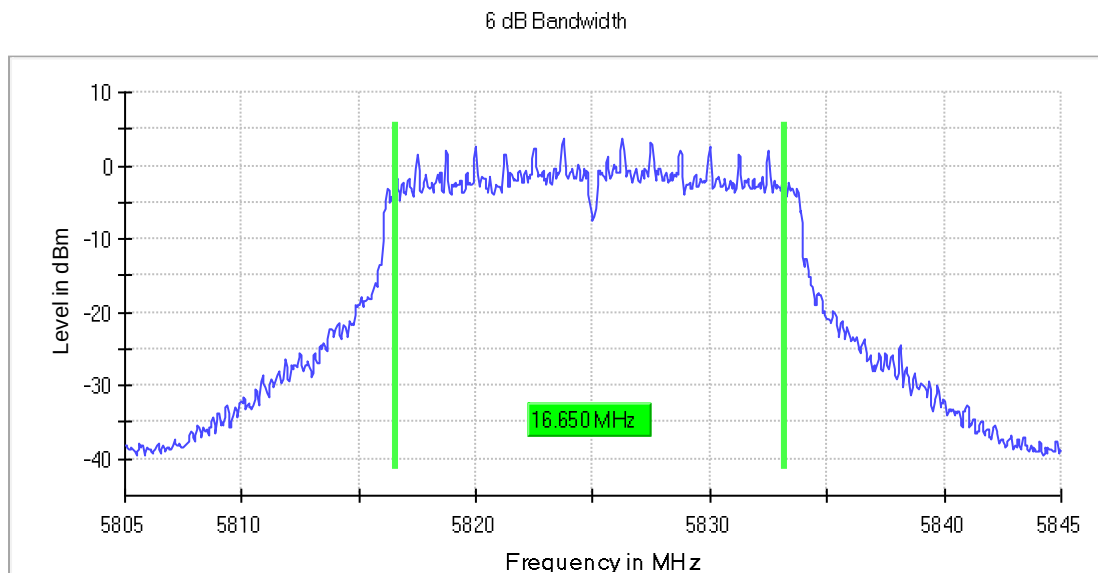
6 dB Bandwidth



Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.80500 GHz	5.80500 GHz
Stop Frequency	5.84500 GHz	5.84500 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	94.922 µs	AUTO
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	66 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.11 dB	0.30 dB

802.11ac20

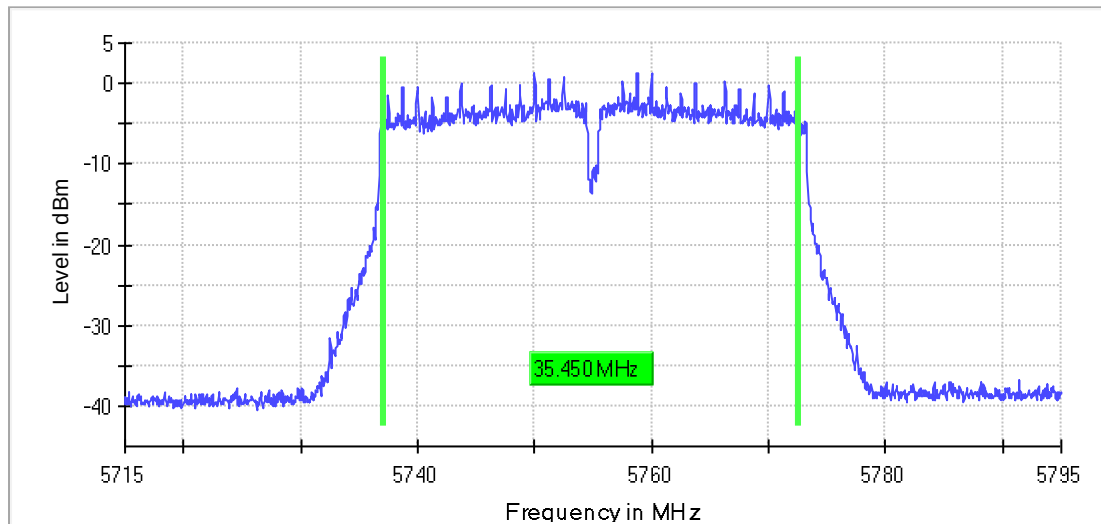


Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.80500 GHz	5.80500 GHz
Stop Frequency	5.84500 GHz	5.84500 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	94.922 μ s	AUTO
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	67 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.13 dB	0.30 dB

802.11n-HT40

6 dB Bandwidth

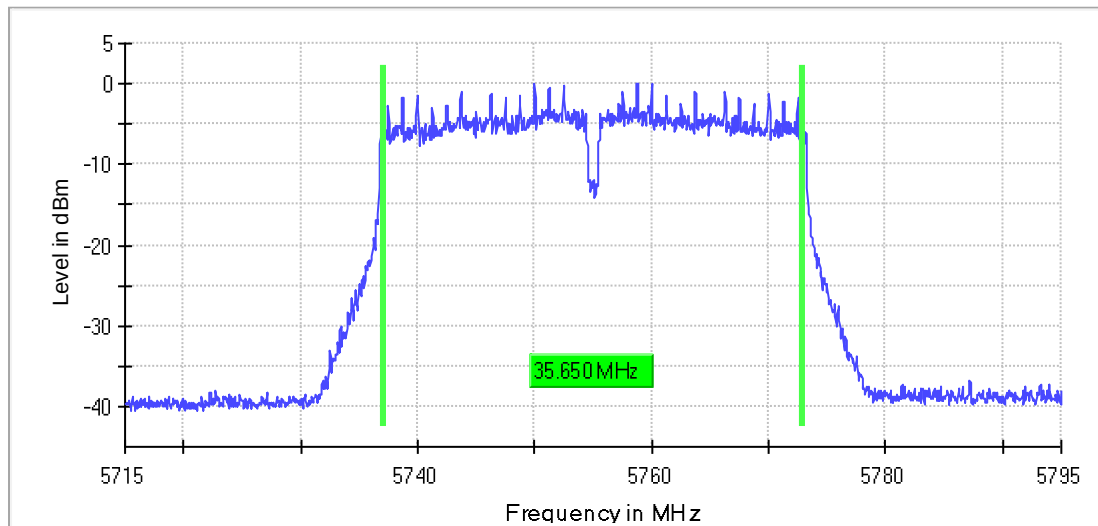


Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.71500 GHz	5.71500 GHz
Stop Frequency	5.79500 GHz	5.79500 GHz
Span	80.000 MHz	80.000 MHz
RBW	100.000 kHz	~ 100.000 kHz
VBW	300.000 kHz	~ 300.000 kHz
SweepPoints	1600	~ 1600
Sweptime	1.600 ms	AUTO
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	113 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.00 dB	0.30 dB

802.11ac40

6 dB Bandwidth

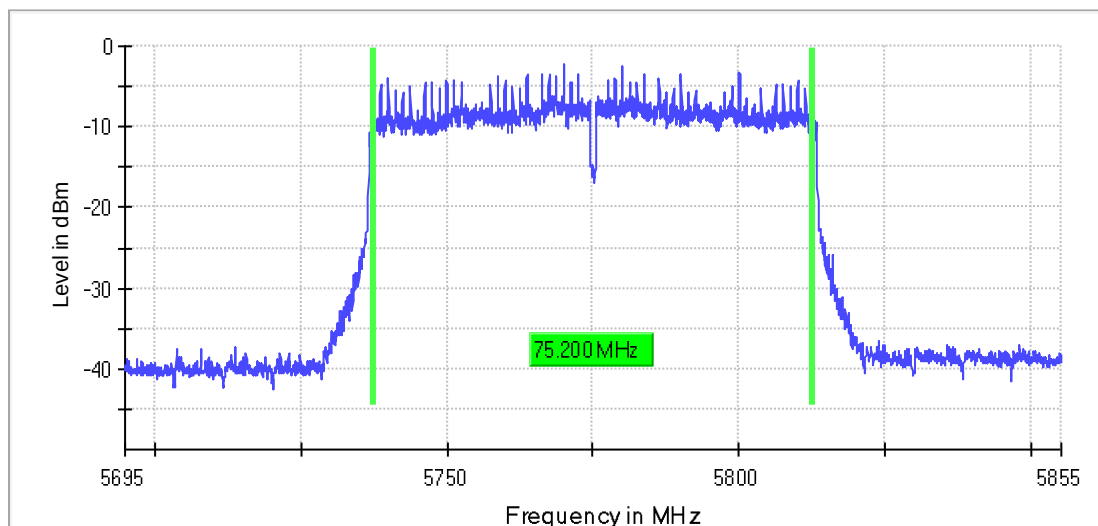


Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.71500 GHz	5.71500 GHz
Stop Frequency	5.79500 GHz	5.79500 GHz
Span	80.000 MHz	80.000 MHz
RBW	100.000 kHz	~ 100.000 kHz
VBW	300.000 kHz	~ 300.000 kHz
SweepPoints	1600	~ 1600
Sweeptime	1.600 ms	AUTO
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	86 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.00 dB	0.30 dB

802.11ac80

6 dB Bandwidth



Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.69500 GHz	5.69500 GHz
Stop Frequency	5.85500 GHz	5.85500 GHz
Span	160.000 MHz	160.000 MHz
RBW	100.000 kHz	~ 100.000 kHz
VBW	300.000 kHz	~ 300.000 kHz
SweepPoints	3200	~ 3200
SweepTime	360.703 µs	AUTO
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	92 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.01 dB	0.30 dB

3. Maximum output power

Note: 23.98dBm=250mW, 30dBm=1000mW.

Channel (mode)	Channel Frequency (MHz)	RF Output Power (dBm)	FCC Limit (dBm)	IC E.I.R.P. Limit (dBm)	Result
36 (802.11a)	5180	12.2	23.98	22.25	Pass
44 (802.11a)	5220	12.4	23.98	22.22	Pass
48 (802.11a)	5240	11.9	23.98	22.30	Pass
52 (802.11a)	5260	12.3	23.98	30	Pass
56 (802.11a)	5280	12.2	23.98	30	Pass
64 (802.11a)	5320	12.2	23.98	30	Pass
100 (802.11a)	5500	8.5	23.98	30	Pass
116 (802.11a)	5580	8.9	23.98	30	Pass
140 (802.11a)	5700	10.6	23.98	30	Pass
144 (802.11a)	5720	10.4	23.98	30	Pass
149 (802.11a)	5745	10.3	30	36	Pass
157 (802.11a)	5785	10.6	30	36	Pass
165 (802.11a)	5825	9.5	30	36	Pass

Max. e.i.r.p.= max. $P_{(\text{Peak power})} + G$, which is far below the IC Limit
G = 2.0dBi

Channel (mode)	Channel Frequency (MHz)	RF Output Power (dBm)	FCC Limit (dBm)	IC Limit (dBm)	Result
36 (802.11n-HT20)	5180	11.9	23.98	22.50	Pass
44 (802.11n-HT20)	5220	12.1	23.98	22.50	Pass
48 (802.11n-HT20)	5240	11.6	23.98	22.50	Pass
52 (802.11n-HT20)	5260	12.1	23.98	30	Pass
56 (802.11n-HT20)	5280	12.0	23.98	30	Pass
64 (802.11n-HT20)	5320	12.0	23.98	30	Pass
100 (802.11n-HT20)	5500	8.4	23.98	30	Pass
116 (802.11n-HT20)	5580	8.7	23.98	30	Pass
140 (802.11n-HT20)	5700	10.4	23.98	30	Pass
144 (802.11n-HT20)	5720	10.2	23.98	30	Pass
149 (802.11n-HT20)	5745	10.1	30	36	Pass
157 (802.11n-HT20)	5785	10.4	30	36	Pass
165 (802.11n-HT20)	5825	9.4	30	36	Pass

Max. e.i.r.p.= max. $P_{(\text{Peak power})} + G$, which is far below the IC Limit
G = 2.0dBi

Channel (mode)	Channel Frequency (MHz)	RF Output Power (dBm)	FCC Limit (dBm)	IC Limit (dBm)	Result
36 (802.11ac20)	5180	11.9	23.98	22.47	Pass
44 (802.11ac20)	5220	12.0	23.98	22.47	Pass
48 (802.11ac20)	5240	11.6	23.98	22.47	Pass
52 (802.11ac20)	5260	12.0	23.98	30	Pass
56 (802.11ac20)	5280	12.0	23.98	30	Pass
64 (802.11ac20)	5320	12.0	23.98	30	Pass
100 (802.11ac20)	5500	8.4	23.98	30	Pass
116 (802.11ac20)	5580	8.8	23.98	30	Pass
140 (802.11ac20)	5700	10.4	23.98	30	Pass

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142 (802.11ac20)	5720	10.2	23.98	30	Pass
149 (802.11ac20)	5745	10.0	30	36	Pass
157 (802.11ac20)	5785	10.4	30	36	Pass
165 (802.11ac20)	5825	9.4	30	36	Pass

Max. e.i.r.p.= max. $P_{(Peak\ power)} + G$, which is far below the IC Limit
G = 2.0dBi

Channel (mode)	Channel Frequency (MHz)	RF Output Power (dBm)	FCC Limit (dBm)	IC Limit (dBm)	Result
38 (802.11n-HT40)	5190	12.7	23.98	23.00	Pass
46 (802.11n-HT40)	5230	12.5	23.98	23.00	Pass
54 (802.11n-HT40)	5270	12.8	23.98	30	Pass
62 (802.11n-HT40)	5310	12.6	23.98	30	Pass
102 (802.11n-HT40)	5510	9.4	23.98	30	Pass
110 (802.11n-HT40)	5550	9.3	23.98	30	Pass
134 (802.11n-HT40)	5670	10.5	23.98	30	Pass
142 (802.11n-HT40)	5710	10.5	23.98	30	Pass
151 (802.11n-HT40)	5755	10.4	30	36	Pass
159 (802.11n-HT40)	5795	10.3	30	36	Pass

Max. e.i.r.p.= max. $P_{(Peak\ power)} + G$, which is far below the IC Limit
G = 2.0dBi

Channel (mode)	Channel Frequency (MHz)	RF Output Power (dBm)	FCC Limit (dBm)	IC Limit (dBm)	Result
38 (802.11ac40)	5190	12.7	23.98	23.00	Pass
46 (802.11ac40)	5230	12.5	23.98	23.00	Pass
54 (802.11ac40)	5270	12.8	23.98	30	Pass
62 (802.11ac40)	5310	12.6	23.98	30	Pass
102 (802.11ac40)	5510	9.3	23.98	30	Pass
110 (802.11ac40)	5550	9.2	23.98	30	Pass
134 (802.11ac40)	5670	10.5	23.98	30	Pass
142 (802.11ac40)	5710	10.5	23.98	30	Pass
151 (802.11ac40)	5755	10.4	30	36	Pass
159 (802.11ac40)	5795	10.4	30	36	Pass

Max. e.i.r.p.= max. $P_{(Peak\ power)} + G$, which is far below the IC Limit
G = 2.0dBi

Channel (mode)	Channel Frequency (MHz)	RF Output Power (dBm)	FCC Limit (dBm)	IC Limit (dBm)	Result
42 (802.11ac80)	5210	12.2	23.98	23.00	Pass
58 (802.11ac80)	5290	12.8	23.98	30	Pass
106 (802.11ac80)	5530	9.4	23.98	30	Pass
138 (802.11ac80)	5690	9.3	23.98	30	Pass
155 (802.11ac80)	5775	9.4	30	36	Pass

Max. e.i.r.p.= max. $P_{(Peak\ power)} + G$, which is far below the IC Limit
G = 2.0dBi

4. Power Spectral Density

4.1 Test Datas

Channel (mode)	Channel Frequency (MHz)	Power Spectral Density (dBm/MHz)		FCC Limit (dBm/MHz)	IC Limit (dBm/MHz**)	Result
		FCC	IC*			
36 (802.11a)	5180	0.25		11	10	Pass
44 (802.11a)	5220	0.49		11	10	Pass
48 (802.11a)	5240	-0.04		11	10	Pass
52 (802.11a)	5260	0.43	0.43	11	11	Pass
60 (802.11a)	5300	0.41	0.41	11	11	Pass
64 (802.11a)	5320	0.33	0.33	11	11	Pass
100 (802.11a)	5500	-2.49	-2.49	11	11	Pass
116 (802.11a)	5580	-2.08	-2.08	11	11	Pass
140 (802.11a)	5700	-0.88	-0.88	11	11	Pass
142 (802.11a)	5720	-1.06	-1.06	11	11	Pass

*The measurement power spectral density for U-NII-1 band is the e.i.r.p. spectral density, for U-NII-2A/2C/3 is the conducted spectral density.

**For U-NII-1 band the limit is the e.i.r.p. spectral density, for U-NII-2A/2C/3 is the conducted spectral density.

Channel (mode)	Channel Frequency (MHz)	Power Spectral Density	Limit (dBm/500KHz)	Result
		dBm/500KHz		
149 (802.11a)	5745	-3.91	30	Pass
157 (802.11a)	5785	-3.81	30	Pass
165 (802.11a)	5825	-4.74	30	Pass

Channel (mode)	Channel Frequency (MHz)	Power Spectral Density (dBm/MHz)		FCC Limit (dBm/MHz)	IC Limit (dBm/MHz**)	Result
		FCC	IC*			
36 (802.11n-HT20)	5180	-0.29		11	10	Pass
44 (802.11n-HT20)	5220	-0.10		11	10	Pass
48 (802.11n-HT20)	5240	-0.51		11	10	Pass
52 (802.11n-HT20)	5260	-0.13	-0.13	11	11	Pass
60 (802.11n-HT20)	5300	-0.12	-0.12	11	11	Pass
64 (802.11n-HT20)	5320	-0.16	-0.16	11	11	Pass
100 (802.11n-HT20)	5500	-3.12	-3.12	11	11	Pass
116 (802.11n-HT20)	5580	-2.68	-2.68	11	11	Pass
140 (802.11n-HT20)	5700	-1.45	-1.45	11	11	Pass
142 (802.11n-HT20)	5720	-1.58	-1.58	11	11	Pass

*The measurement power spectral density for U-NII-1 band is the e.i.r.p. spectral density, for U-NII-2A/2C/3 is the conducted spectral density.

**For U-NII-1 band the limit is the e.i.r.p. spectral density, for U-NII-2A/2C/3 is the conducted spectral density.

Channel (mode)	Channel Frequency (MHz)	Power Spectral Density	Limit (dBm/500KHz)	Result
		dBm/500KHz		
149 (802.11n-HT20)	5745	-4.51	30	Pass
157 (802.11n-HT20)	5785	-4.42	30	Pass
165 (802.11n-HT20)	5825	-5.43	30	Pass

Channel (mode)	Channel Frequency (MHz)	Power Spectral Density (dBm/MHz)		FCC Limit (dBm/MHz)	IC Limit (dBm/MHz**)	Result
		FCC	IC*			
36 (802.11ac20)	5180	-0.20		11	10	Pass
44 (802.11ac20)	5220	-0.16		11	10	Pass
48 (802.11ac20)	5240	-0.57		11	10	Pass
52 (802.11ac20)	5260	-0.09	-0.09	11	11	Pass
60 (802.11ac20)	5300	-0.06	-0.06	11	11	Pass
64 (802.11ac20)	5320	-0.08	-0.08	11	11	Pass
100 (802.11ac20)	5500	-3.15	-3.15	11	11	Pass
116 (802.11ac20)	5580	-2.64	-2.64	11	11	Pass
140 (802.11ac20)	5700	-1.46	-1.46	11	11	Pass
142 (802.11ac20)	5720	-1.57	-1.57	11	11	Pass

*The measurement power spectral density for U-NII-1 band is the e.i.r.p. spectral density, for U-NII-2A/2C/3 is the conducted spectral density.

**For U-NII-1 band the limit is the e.i.r.p. spectral density, for U-NII-2A/2C/3 is the conducted spectral density.

Channel (mode)	Channel Frequency (MHz)	Power Spectral Density	Limit (dBm/500KHz)	Result
		dBm/500KHz		
149 (802.11ac20)	5745	-4.51	30	Pass
157 (802.11ac20)	5785	-4.40	30	Pass
165 (802.11ac20)	5825	-5.34	30	Pass

Channel (mode)	Channel Frequency (MHz)	Power Spectral Density (dBm/MHz)		FCC Limit (dBm/MHz)	IC Limit (dBm/MHz**)	Result
		FCC	IC*			
38 (802.11n-HT40)	5190	-2.49		11	10	Pass
46 (802.11n-HT40)	5230	-2.65		11	10	Pass
54 (802.11n-HT40)	5270	-2.12	-2.12	11	10	Pass
62 (802.11n-HT40)	5310	-2.16	-2.16	11	11	Pass
102 (802.11n-HT40)	5510	-5.31	-5.31	11	11	Pass
110 (802.11n-HT40)	5550	-5.64	-5.64	11	11	Pass
134 (802.11n-HT40)	5670	-4.38	-4.38	11	11	Pass
142 (802.11n-HT40)	5710	-4.53	-4.53	11	11	Pass

*The measurement power spectral density for U-NII-1 band is the e.i.r.p. spectral density, for U-NII-2A/2C/3 is the conducted spectral density.

**For U-NII-1 band the limit is the e.i.r.p. spectral density, for U-NII-2A/2C/3 is the conducted spectral density.

Channel (mode)	Channel Frequency (MHz)	Power Spectral Density	Limit (dBm/500KHz)	Result
		dBm/500KHz		
151 (802.11n-HT40)	5755	-7.60	30	Pass
159 (802.11n-HT40)	5795	-7.83	30	Pass

Channel (mode)	Channel Frequency (MHz)	Power Spectral Density (dBm/MHz)		FCC Limit (dBm/MHz)	IC Limit (dBm/MHz**)	Result
		FCC	IC*			
38 (802.11ac40)	5190	-2.46		11	10	Pass
46 (802.11ac40)	5230	-2.66		11	10	Pass
54 (802.11ac40)	5270	-2.19	-2.19	11	10	Pass
62 (802.11ac40)	5310	-2.47	-2.47	11	11	Pass
102 (802.11ac40)	5510	-5.31	-5.31	11	11	Pass
110 (802.11ac40)	5550	-5.64	-5.64	11	11	Pass
134 (802.11ac40)	5670	-4.38	-4.38	11	11	Pass
142 (802.11ac40)	5710	-4.52	-4.52	11	11	Pass

*The measurement power spectral density for U-NII-1 band is the e.i.r.p. spectral density, for U-NII-2A/2C/3 is the conducted spectral density.

**For U-NII-1 band the limit is the e.i.r.p. spectral density, for U-NII-2A/2C/3 is the conducted spectral density.

Channel (mode)	Channel Frequency (MHz)	Power Spectral Density	Limit (dBm/500KHz)	Result
		dBm/500KHz		
151 (802.11ac40)	5755	-7.22	30	Pass
159 (802.11ac40)	5795	-7.70	30	Pass

Channel (mode)	Channel Frequency (MHz)	Power Spectral Density (dBm/MHz)		FCC Limit (dBm/MHz)	IC Limit (dBm/MHz**)	Result
		FCC	IC*			
42 (802.11ac80)	5210	-5.97		11	10	Pass
58 (802.11ac80)	5290	-5.38	-5.38	11	10	Pass
106 (802.11ac80)	5530	-8.51	-8.51	11	10	Pass

*The measurement power spectral density for U-NII-1 band is the e.i.r.p. spectral density, for U-NII-2A/2C/3 is the conducted spectral density.

**For U-NII-1 band the limit is the e.i.r.p. spectral density, for U-NII-2A/2C/3 is the conducted spectral density.

Channel (mode)	Channel Frequency (MHz)	Power Spectral Density	Limit (dBm/500KHz)	Result
		dBm/500KHz		
155 (802.11ac80)	5775	-11.94	30	Pass

5. Dynamic Frequency Selection (DFS)

DFS In-Service Monitoring (5290 MHz; 15.400 dBm; 80 MHz)

Test according to FCC title 47 part 15 §15.407(h), KDB 905462 D02 U-NII DFS Compliance Procedures New Rules v02

Measurement Summary

DUT Frequency (MHz)	Radar Type No.	Type of Measurement value	Overall Result
5290.000000	0	First of all Transmitt Test	---
5290.000000	0	Channel Move Time	PASS
5290.000000	0	Channel Closing Transmission Time	PASS
5290.000000	0	Non-occupancy period	PASS

(continuation of the "Measurement Summary" table from column 4 ...)

DUT Frequency (MHz)	Overall Comment
5290.000000	not performed / not finished
5290.000000	
5290.000000	
5290.000000	

Channel Move Time Detailed Results

DUT Frequency (MHz)	Radar Type No.	CMT Tx Time (s)	CMT Limit (s)	CMT Result
5290.000000	0	1.012	10.000	PASS

(continuation of the "Channel Move Time Detailed Results" table from column 5 ...)

DUT Frequency (MHz)	CMT Comment
5290.000000	Tx Time value is last trailing edge found within sweep. See Note 1.

Channel Closing Transmission Time Detailed Results

DUT Frequency (MHz)	Radar Type No.	CCTT Type of Value	CCTT No. of Pulses found	CCTT Tx Time (ms)
5290.000000	0	first 200 ms	132	8.912
5290.000000	0	remaining 10.0 second(s) period	410	25.612

(continuation of the "Channel Closing Transmission Time Detailed Results" table from column 5 ...)

DUT Frequency (MHz)	CCTT Tx Time Limit (ms)	CCTT Result	CCTT Comment
5290.000000	200.000	PASS	See Note 1.
5290.000000	60.000	PASS	See Note 1.

Non-occupancy period Detailed Results

DUT Frequency (MHz)	Radar Type No.	NOP No. of Pulses found	NOP No. of Pulses Limit	NOP Tx Time (s)	NOP Tx Time Limit (s)
5290.000000	0	0	0	0.000	0.000

(continuation of the "Non-occupancy period Detailed Results" table from column 6 ...)

DUT Frequency (MHz)	NOP Result	NOP Comment
5290.000000	PASS	not performed because of Channel Closing Transmission Time / Channel Move Time Test failed

Transmitting Test Detailed Results

DUT Frequency (MHz)	Tx-Test Result	Tx-Test Comment
5290.000000	---	not performed / not finished

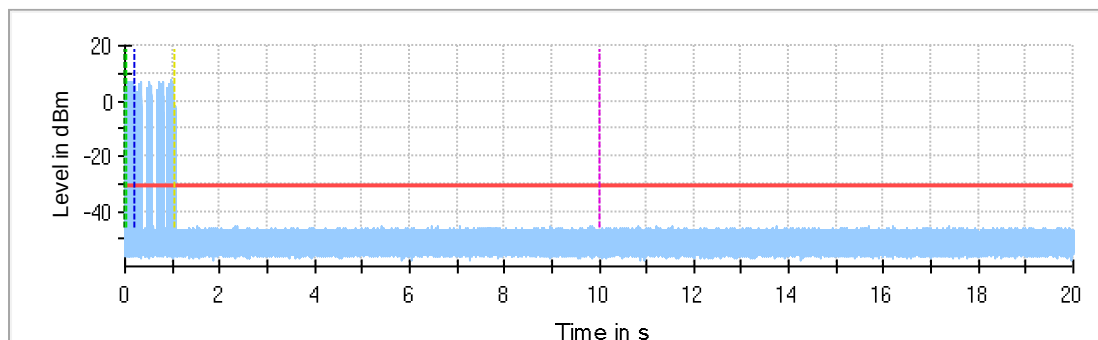
Radar level verification

Description / Formula	Value	Unit
IF(({DFS Mode(0/1/2)}=0)or({DFS Mode(0/1/2)}=1) , IF((dBm2W({Nominal Power[dBm]})>0.2) , -64 , IF(({Configured PSD[dBm]}<10) , -62 , -64))+ {Attenuation Vector Generator to DUT[dB]} , -50+ {Attenuation Vector Generator to COMP[dB]})+ {Radar Signal Level Offset[dB]})	Given setting / formula to calculate Vector Generator level	--
Configured DUT EIRP:	28.84	mW
Configured DUT PSD:	-3.70	dBm/MHz
Requirement of the Detection threshold value for this given values acc. to FCC clause 5.2 / Table 3	-62	dBm
Vector Generator level setting	-3.29	dBm
Configured overall pathloss from Vector Generator RF out to DUT connector of 'DUT to OSP'-cable	35.53	dB
Given additional level added to the amplitude of the waveform to account for variations in measurement equipment acc. to FCC clause 5.2 / Table 3 / Note 2	1.00	dB
This results in the following radar signal level at the DUT	-38.82	dBm

Additional Information

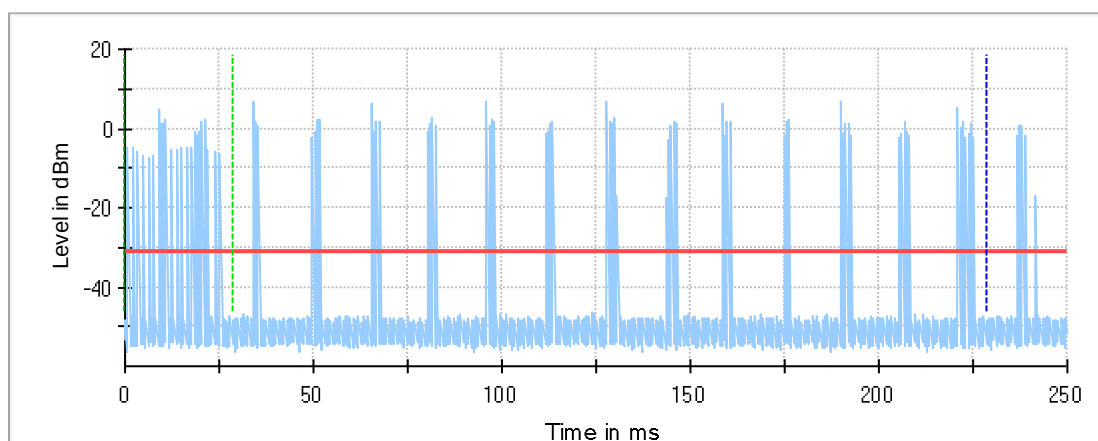
Note	Description
Note 1:	Because of the radar pulse event at the beginning, the investigation of the trace begins with an offset of 28.7 ms conforming to the end of the Radar burst.
Note 2:	Channel move time (CMT) / channel closing transmission time (CCTT) measurement was made with hi resolution video sweep using OSP DAQ channel
Note 3:	Because of the substantially higher sampling rate of the video signal the results for CCTT and CMT are more accurate than in the graphics visible. Reached timing accuracy of the video trace: approx 4 μ s
Note 4:	The Non-Occupancy Period trace starts at the end of the Channel move time trace (20.000 secs.) Labeling of the x-axis (time) is relative to its beginning (0 secs.)

Channel Move Time



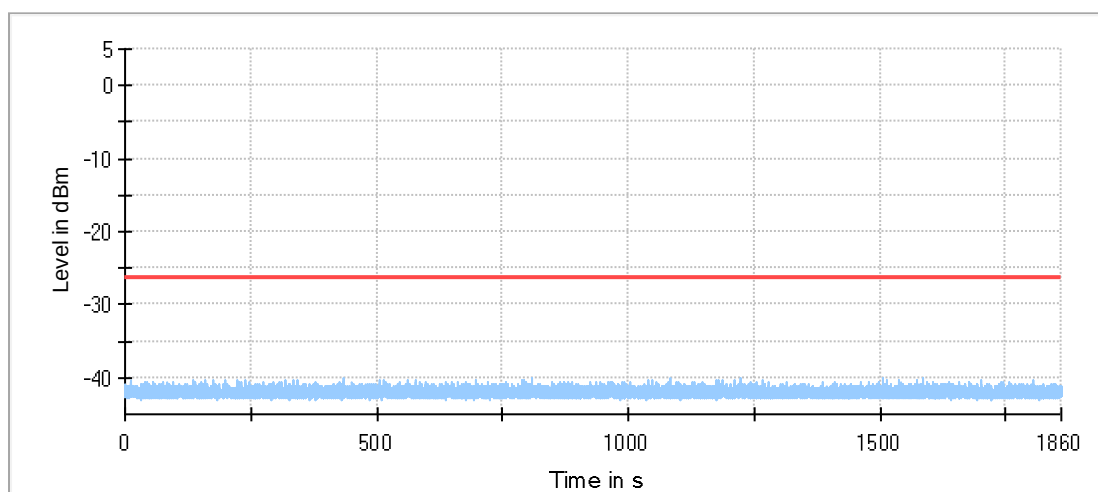
- Channel Move Time
- Threshold
- - - Start of Radar
- - - Trigger at end of Radar
- - - First 200ms of Channel Closing Tx Time
- - - 10sec Channel Move Time Limit
- - - Last measured edge of Channel Closing Tx Time

Channel Move Time first 200ms



— Channel Move Time first 200ms
— Threshold
- - - Start of Radar
- - - First 200ms of Channel Closing Tx Time
- - - Trigger at end of Radar

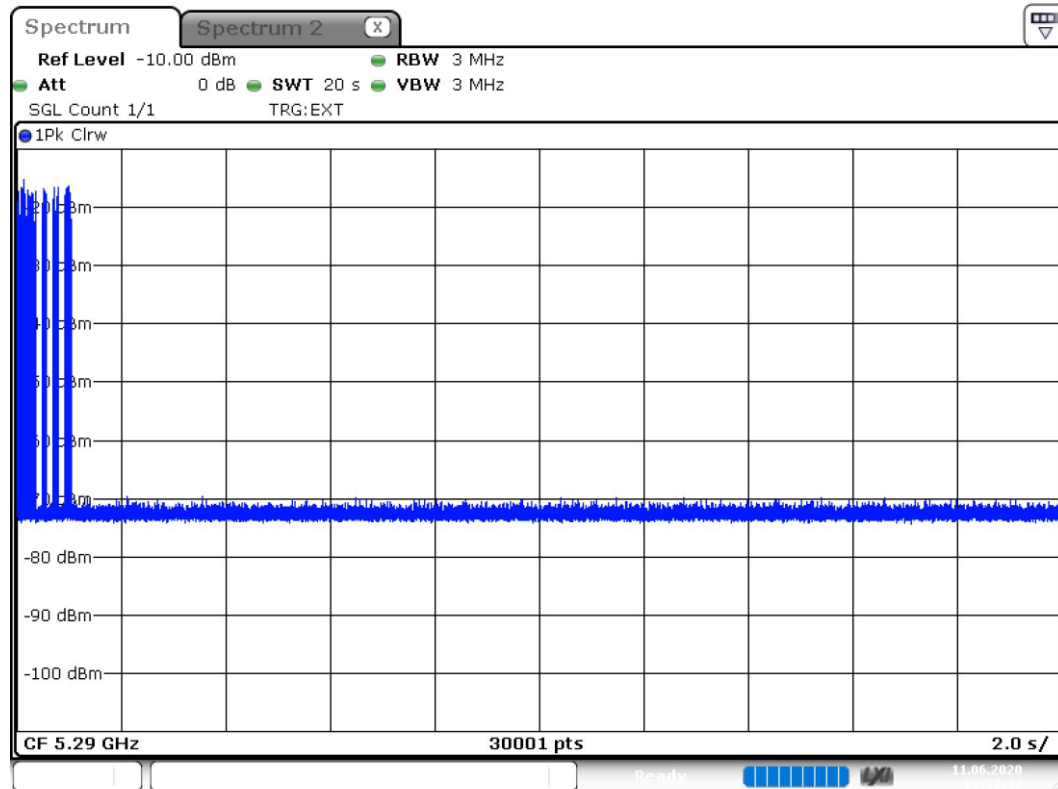
Non-occupancy period



— Non-occupancy period
— Threshold

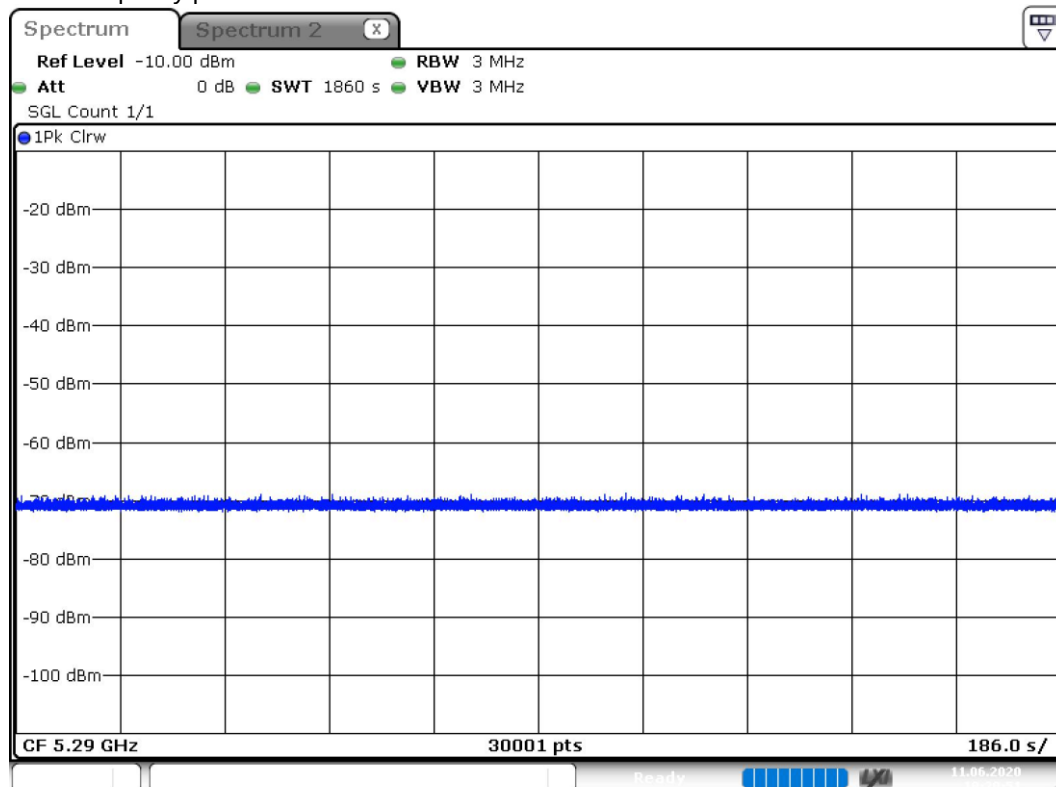
Produkte
Products

Channel Move Time



Date: 11.JUN.2020 09:58:42

Non-occupancy period



Date: 11.JUN.2020 10:29:51

DFS In-Service Monitoring (5530 MHz; 15.400 dBm; 80 MHz)

Test according to FCC title 47 part 15 §15.407(h), KDB 905462 D02 U-NII DFS Compliance Procedures New Rules v02

Measurement Summary

DUT Frequency (MHz)	Radar Type No.	Type of Measurement value	Overall Result
5530.000000	0	First of all Transmitt Test	---
5530.000000	0	Channel Move Time	PASS
5530.000000	0	Channel Closing Transmission Time	PASS
5530.000000	0	Non-occupancy period	PASS

(continuation of the "Measurement Summary" table from column 4 ...)

DUT Frequency (MHz)	Overall Comment
5530.000000	not performed / not finished
5530.000000	
5530.000000	
5530.000000	

Channel Move Time Detailed Results

DUT Frequency (MHz)	Radar Type No.	CMT Tx Time (s)	CMT Limit (s)	CMT Result
5530.000000	0	0.000	10.000	PASS

(continuation of the "Channel Move Time Detailed Results" table from column 5 ...)

DUT Frequency (MHz)	CMT Comment
5530.000000	Tx Time value is last trailing edge found within sweep. See Note 1.

Channel Closing Transmission Time Detailed Results

DUT Frequency (MHz)	Radar Type No.	CCTT Type of Value	CCTT No. of Pulses found	CCTT Tx Time (ms)
5530.000000	0	first 200 ms	0	0.000
5530.000000	0	remaining 10.0 second(s) period	0	0.000

(continuation of the "Channel Closing Transmission Time Detailed Results" table from column 5 ...)

DUT Frequency (MHz)	CCTT Tx Time Limit (ms)	CCTT Result	CCTT Comment
5530.000000	200.000	PASS	See Note 1.
5530.000000	60.000	PASS	See Note 1.

Non-occupancy period Detailed Results

DUT Frequency (MHz)	Radar Type No.	NOP No. of Pulses found	NOP No. of Pulses Limit	NOP Tx Time (s)	NOP Tx Time Limit (s)
5530.000000	0	0	0	0.000	0.000

(continuation of the "Non-occupancy period Detailed Results" table from column 6 ...)

DUT Frequency (MHz)	NOP Result
5530.000000	PASS

Transmitting Test Detailed Results

DUT Frequency (MHz)	Tx-Test Result	Tx-Test Comment
5530.000000	---	not performed / not finished

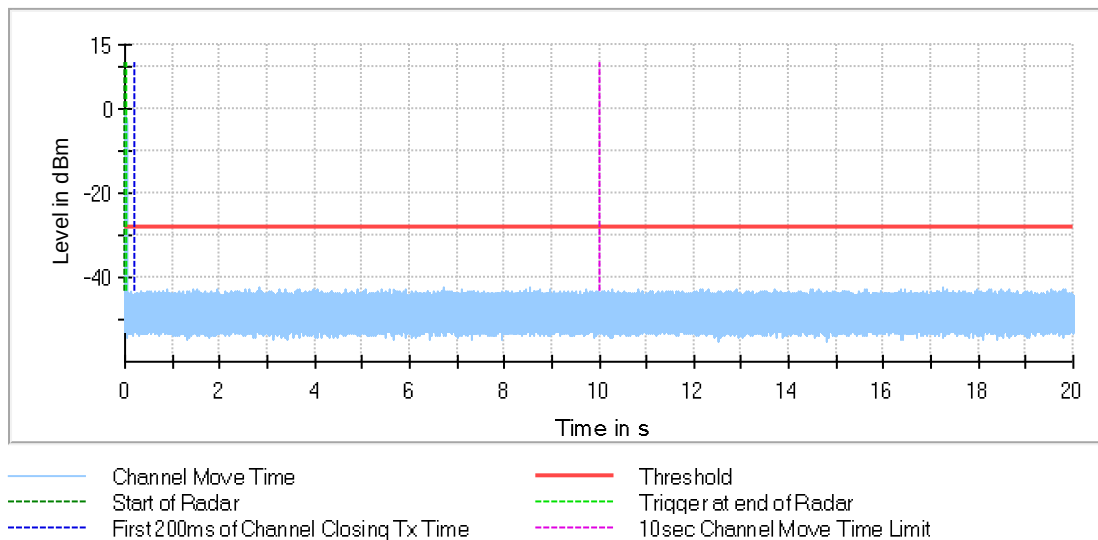
Radar level verification

Description / Formula	Value	Unit
IF(({DFS Mode(0/1/2)}=0)or({DFS Mode(0/1/2)}=1) , IF((dBm2W({Nominal Power[dBm]}>0.2) , -64 , IF({Configured PSD[dBm]}<10) , -62 , -64))+ {Attenuation Vector Generator to DUT[dB]} , -50+ {Attenuation Vector Generator to COMP[dB]}+ {Radar Signal Level Offset[dB]})	Given setting / formula to calculate Vector Generator level	--
Configured DUT EIRP:	25.70	mW
Configured DUT PSD:	-3.70	dBm/MHz
Requirement of the Detection threshold value for this given values acc. to FCC clause 5.2 / Table 3	-62	dBm
Vector Generator level setting	-1.56	dBm
Configured overall pathloss from Vector Generator RF out to DUT connector of 'DUT to OSP'-cable	36.64	dB
Given additional level added to the amplitude of the waveform to account for variations in measurement equipment acc. to FCC clause 5.2 / Table 3 / Note 2	1.00	dB
This results in the following radar signal level at the DUT	-38.20	dBm

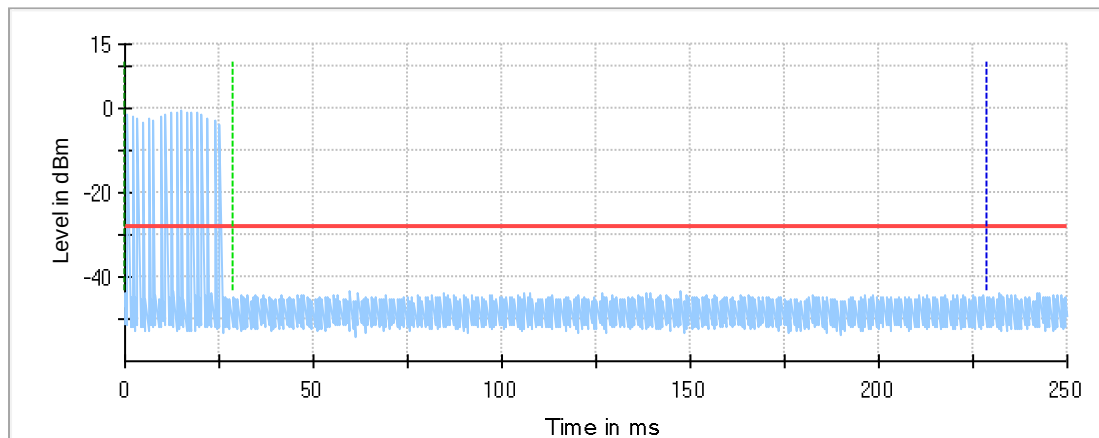
Additional Information

Note	Description
Note 1:	Because of the radar pulse event at the beginning, the investigation of the trace begins with an offset of 28.7 ms conforming to the end of the Radar burst.
Note 2:	Channel move time (CMT) / channel closing transmission time (CCTT) measurement was made with hi resolution video sweep using OSP DAQ channel
Note 3:	Because of the substantially higher sampling rate of the video signal the results for CCTT and CMT are more accurate than in the graphics visible. Reached timing accuracy of the video trace: approx 4 μ s
Note 4:	The Non-Occupancy Period trace starts at the end of the Channel move time trace (20.000 secs.) Labeling of the x-axis (time) is relative to its beginning (0 secs.)

Channel Move Time

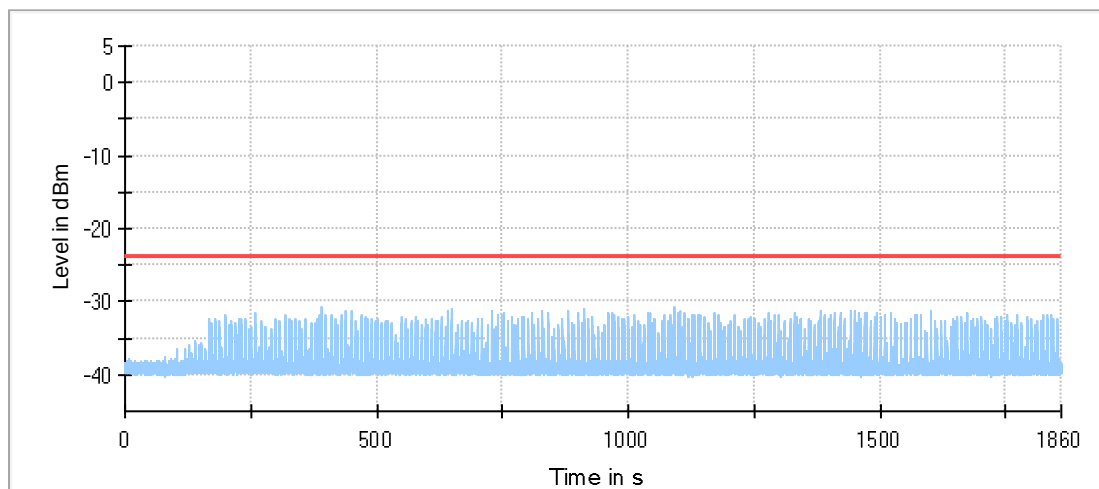


Channel Move Time first 200ms



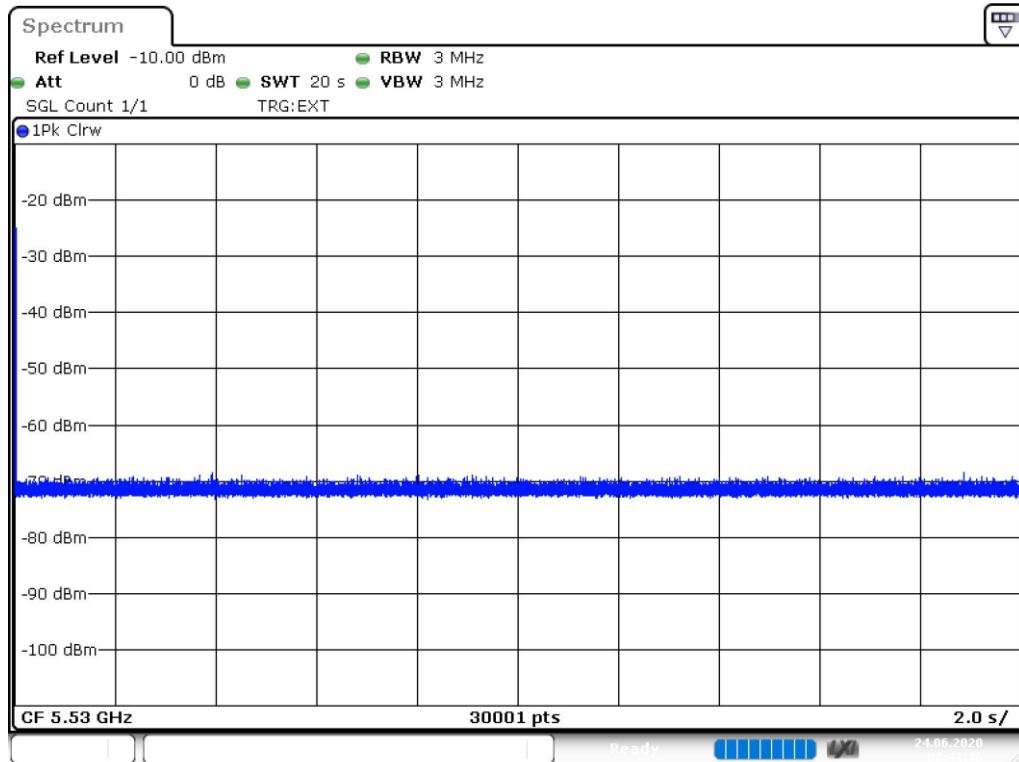
— Channel Move Time first 200ms — Threshold
- - - Start of Radar - - - Trigger at end of Radar
- - - First 200ms of Channel Closing Tx Time

Non-occupancy period



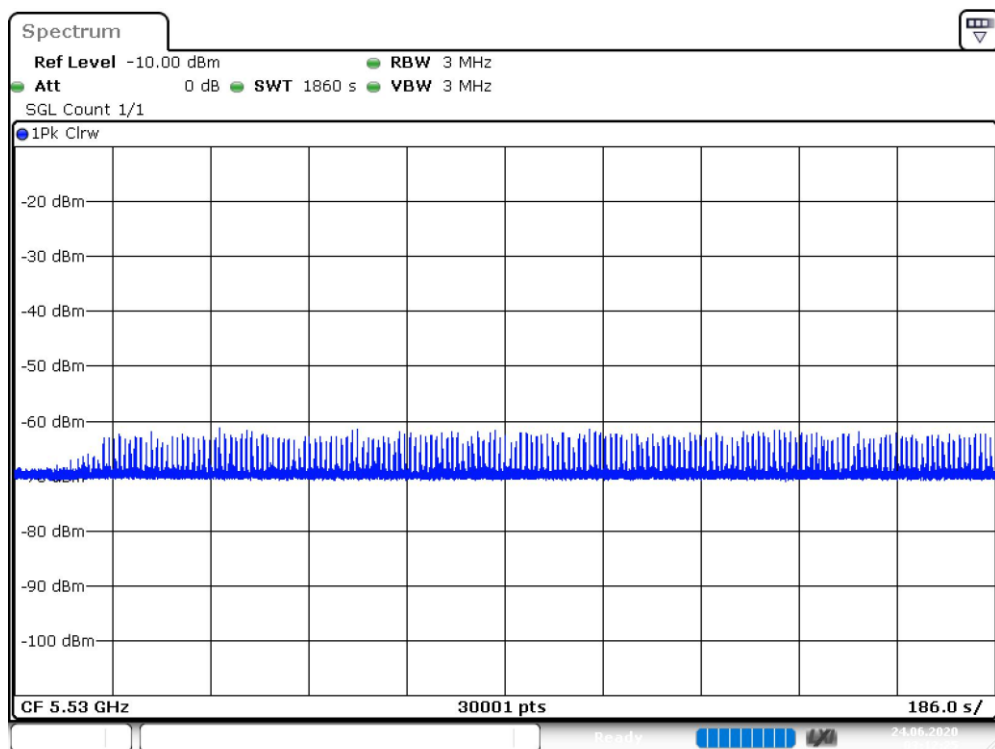
— Non-occupancy period — Threshold

Channel Move Time



Date: 24.JUN.2020 02:41:17

Non-occupancy period



Date: 24.JUN.2020 03:12:26

6. Transmitter Spurious Emissions

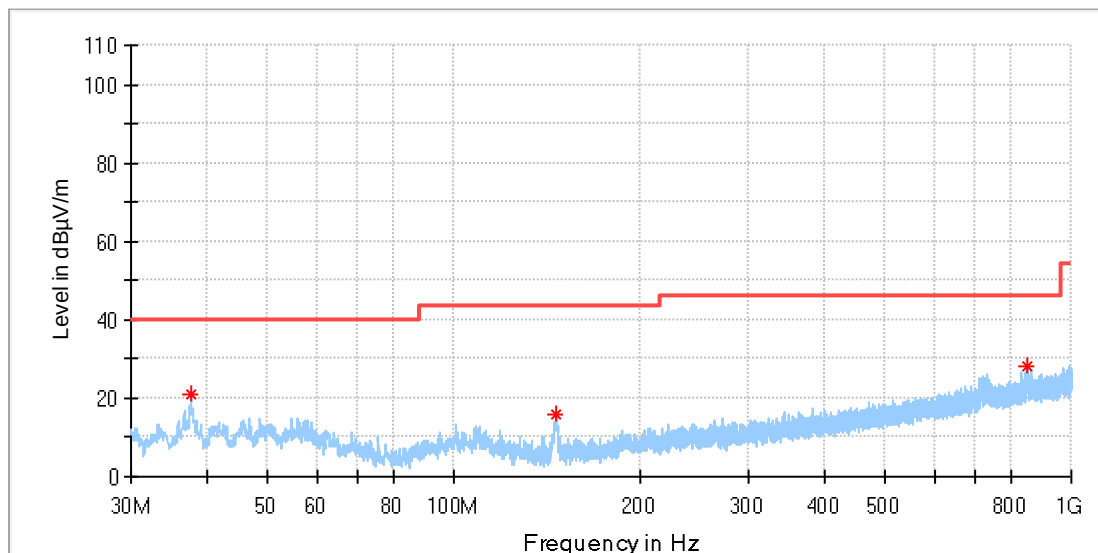
Note:1, Testing is carried out with frequency rang 9kHz to the tenth harmonics.

2, The margin is greater than 20 dB are not shown in this Appendix.

3, All the data rate and configurations have been tested and only the worst case mode (802.11a, n20M/40M and ac 80M) reported.

6.1 Transmitter Spurious Emissions, Below 1GHz

Wi-Fi 5G 11n40M_5190MHz

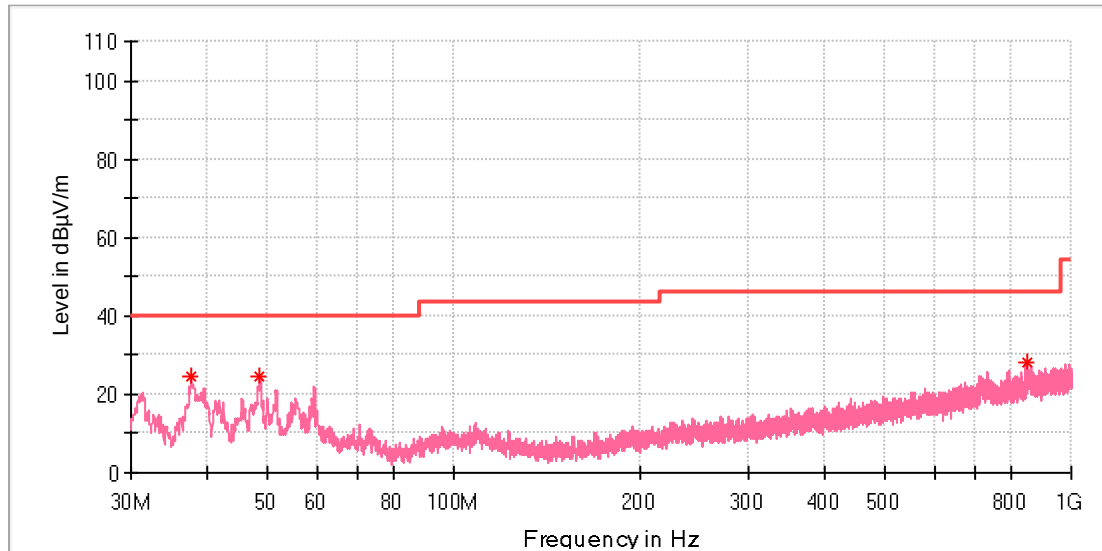


Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
37.469000	21.16	---	40.00	18.84	100.0	H	54.0	-21.3
146.157500	15.97	---	43.50	27.53	100.0	H	294.0	-22.6
845.382000	28.33	---	46.00	17.67	100.0	H	313.0	-6.0

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Wi-Fi 5G 11n40M_5190MHz



Critical_Freqs

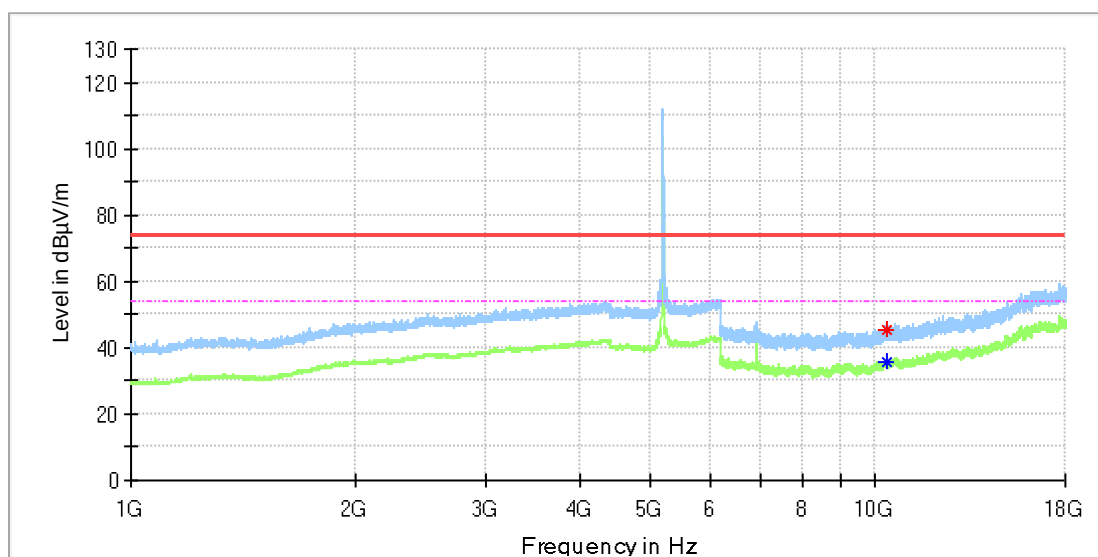
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
37.469000	24.49	---	40.00	15.51	100.0	V	228.0	-21.3
48.575500	24.61	---	40.00	15.39	100.0	V	29.0	-18.7
845.479000	28.09	---	46.00	17.91	100.0	V	147.0	-6.0

Note: Testing was carried out within frequency range 9kHz to 40GHz. The measurement results below 30MHz and 18GHz - 40GHz were greater than 20dB below the limit, so only the radiated spurious emissions from 30MHz to 18GHz were reported. The emission exceed the limite is the fundamental emission.

6.2 Transmitter Spurious Emissions, 1GHz-18GHz

802.11a:

Wi-Fi 5G 11a_Ch36



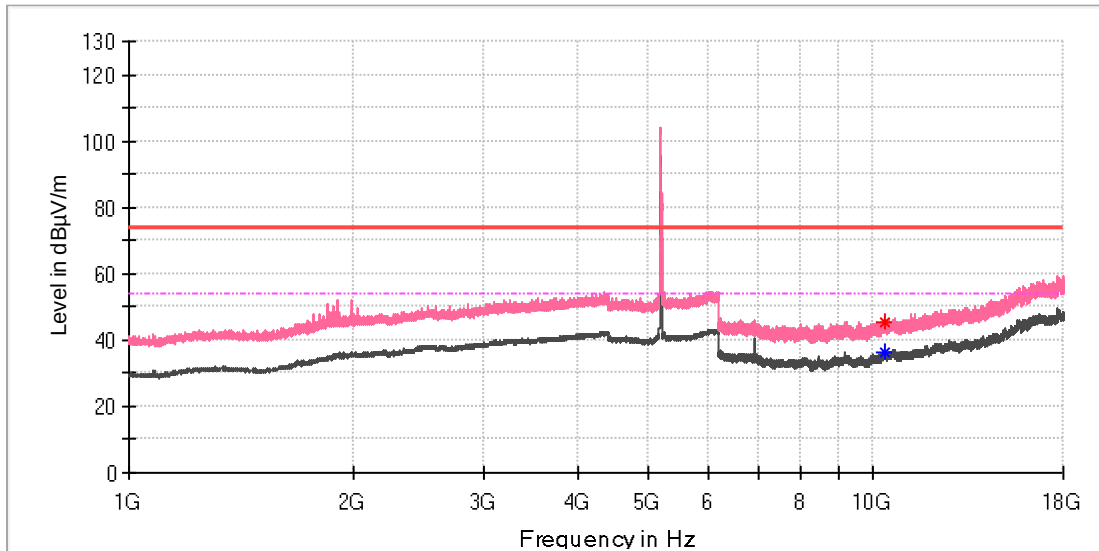
Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
10358.025000	45.09	---	74.00	28.91	100.0	H	338.0	11.8
10367.366667	---	35.70	54.00	18.30	100.0	H	160.0	11.8

Final_Result

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

Wi-Fi 5G 11a_Ch36



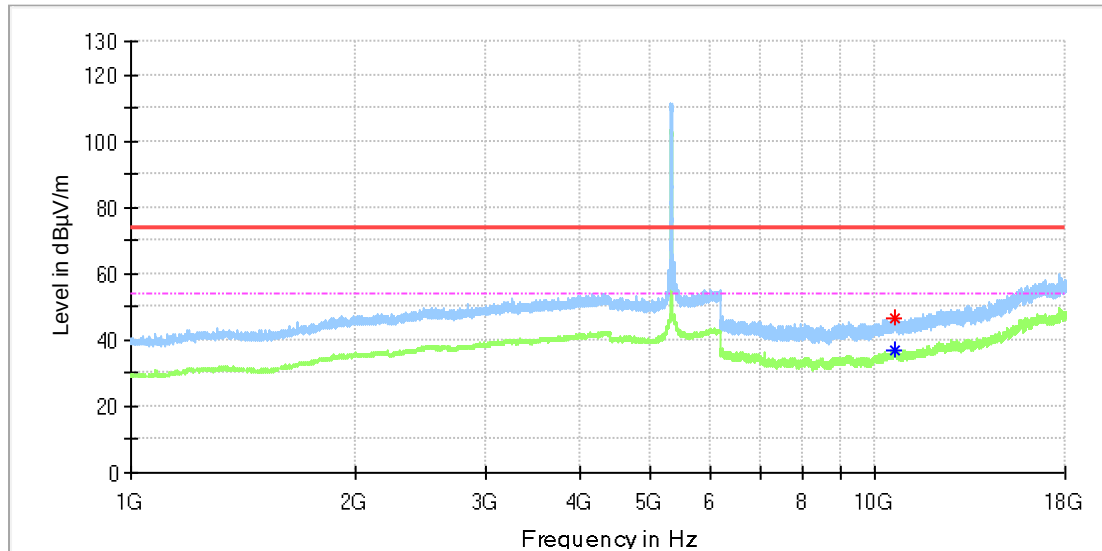
Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
10364.908333	45.56	---	74.00	28.44	100.0	V	117.0	11.8
10365.891667	---	36.43	54.00	17.57	100.0	V	224.0	11.8

Final Result

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

Wi-Fi 5G 11a_Ch64



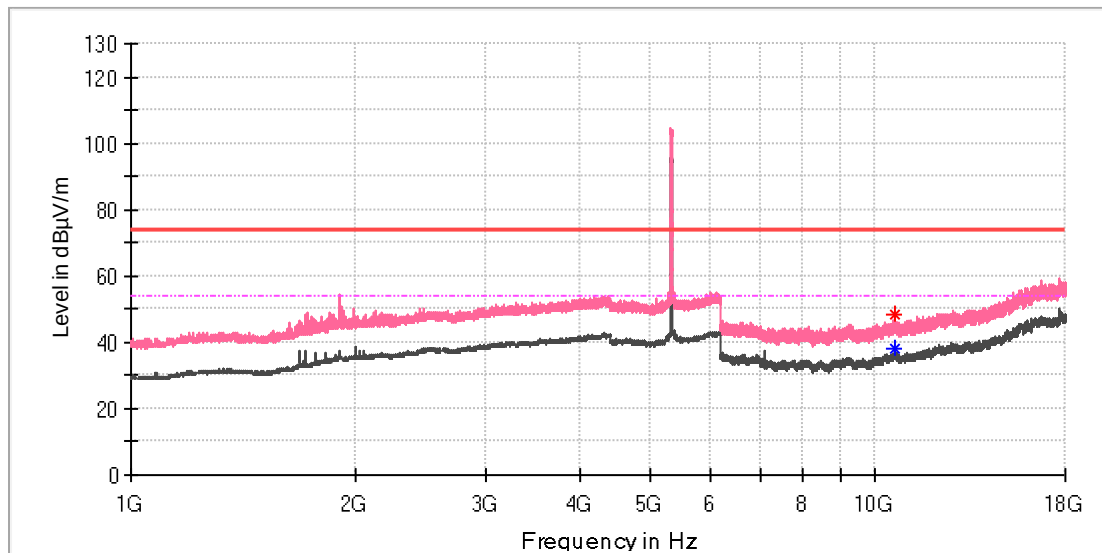
Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
10642.700000	46.43	---	74.00	27.57	100.0	H	351.0	12.0
10652.041667	---	37.05	54.00	16.95	100.0	H	174.0	12.0

Final Result

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

Wi-Fi 5G 11a_Ch64



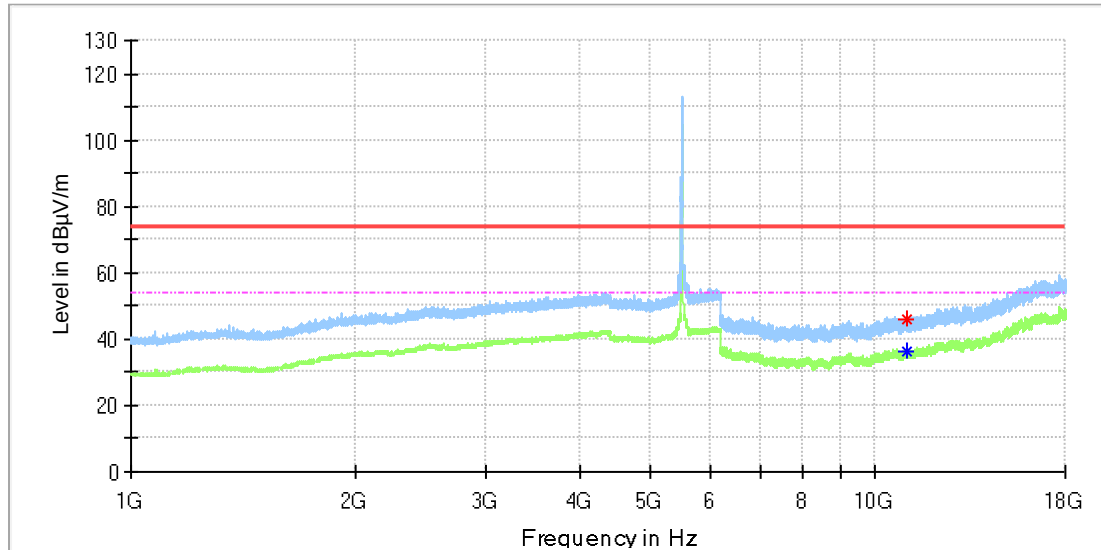
Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
10633.358333	---	38.17	54.00	15.83	100.0	V	184.0	12.0
10643.191667	48.13	---	74.00	25.87	100.0	V	184.0	12.0

Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

Wi-Fi 5G 11a_Ch100



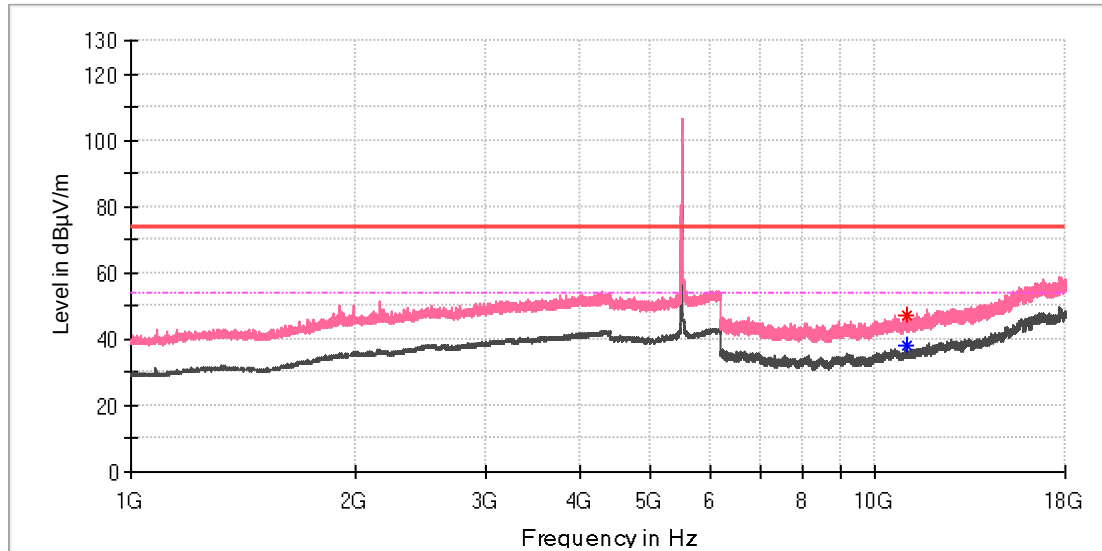
Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
10994.733333	---	36.09	54.00	17.92	100.0	H	153.0	12.2
11005.550000	45.75	---	74.00	28.25	100.0	H	117.0	12.2

Final_Result

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

Wi-Fi 5G 11a_Ch100



Critical_Freqs

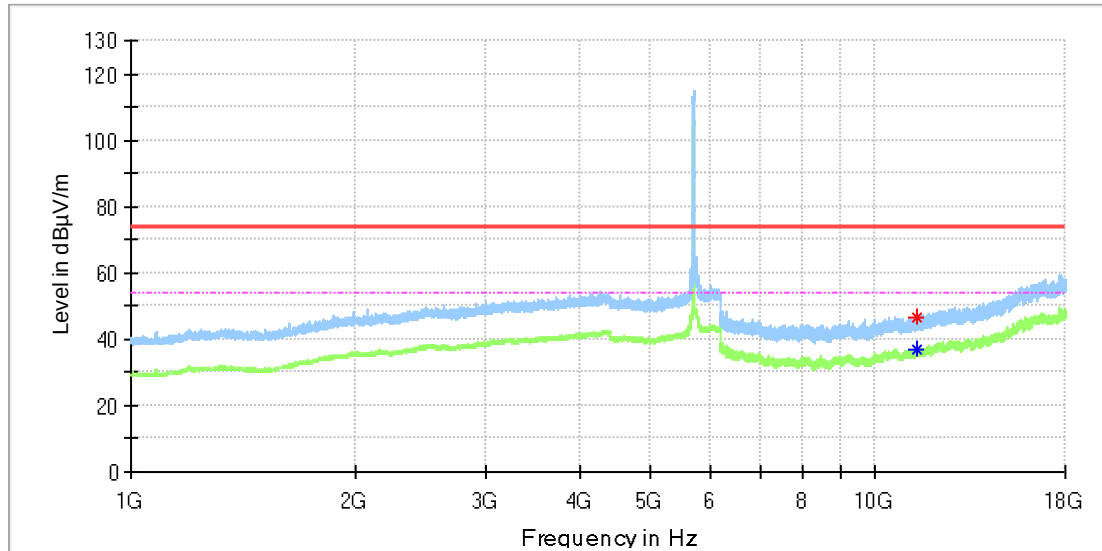
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
10998.175000	---	38.30	54.00	15.70	100.0	V	0.0	12.2
11003.583333	47.12	---	74.00	26.88	100.0	V	204.0	12.2

Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

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Wi-Fi 5G 11a_Ch140



Critical_Freqs

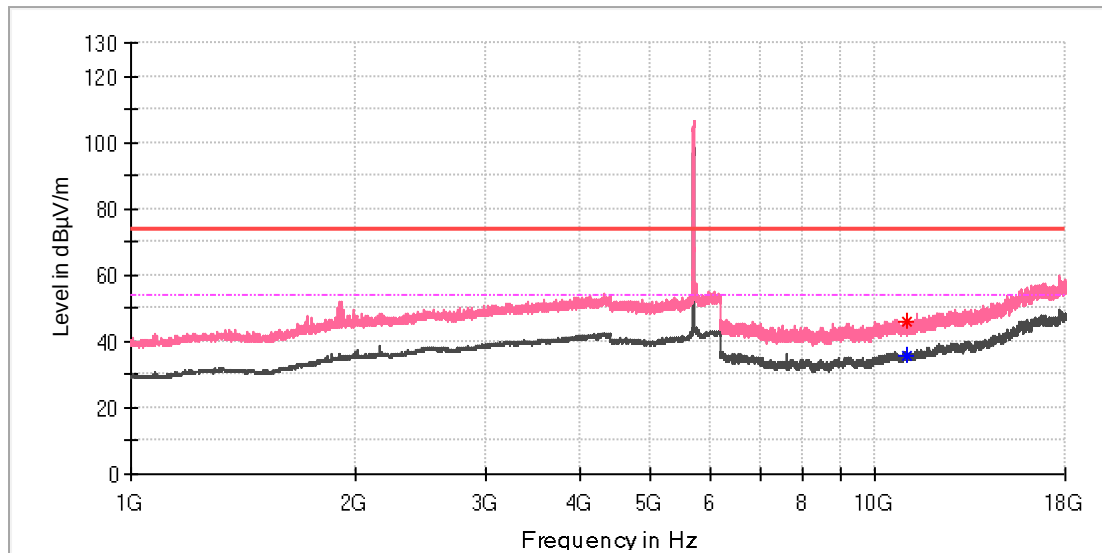
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
11395.441667	46.86	---	74.00	27.14	100.0	H	209.0	12.7
11408.225000	---	36.99	54.00	17.01	100.0	H	135.0	12.9

Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

Produkte
Products

Wi-Fi 5G 11a_Ch140



Critical Freqs

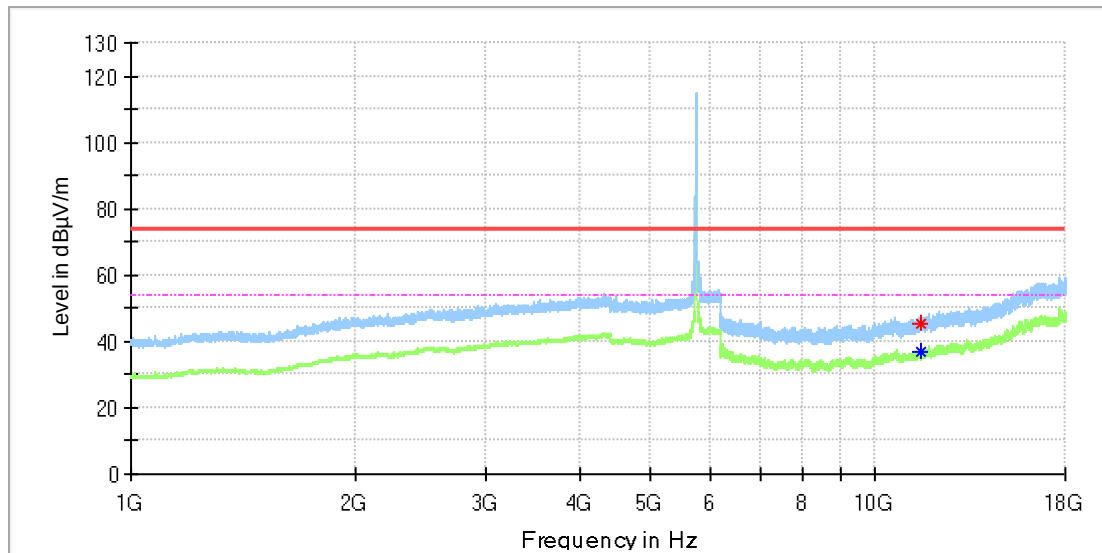
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
11002.108333	45.83	---	74.00	28.17	100.0	V	29.0	12.2
11003.583333	---	35.74	54.00	18.26	100.0	V	114.0	12.2

Final Result

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

Produkte
Products

Wi-Fi 5G 11a_Ch149



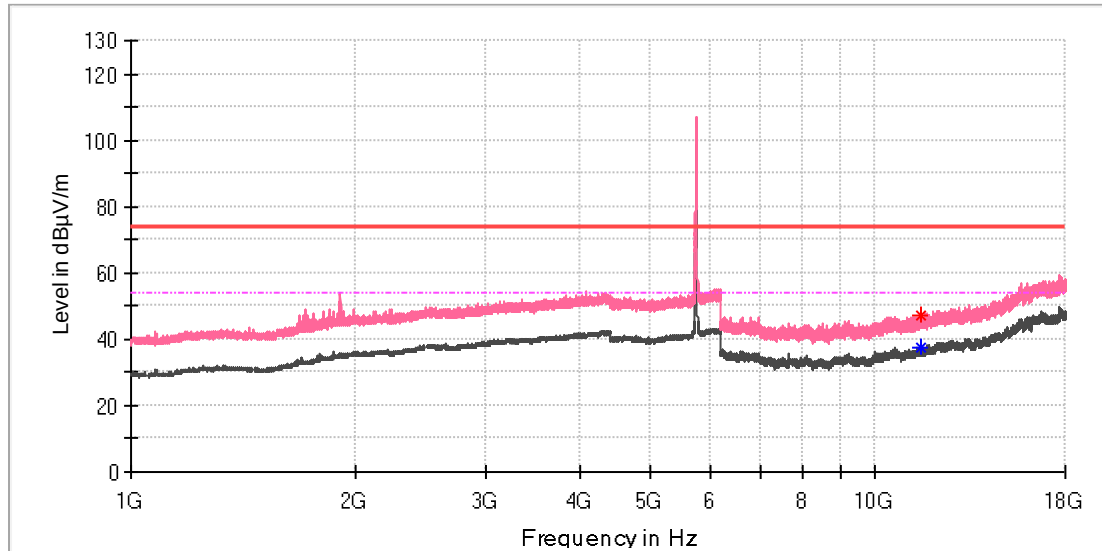
Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
11504.591667	45.49	---	74.00	28.51	100.0	H	319.0	13.7
11506.066667	---	36.71	54.00	17.29	100.0	H	175.0	13.7

Final Result

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

Wi-Fi 5G 11a_Ch149



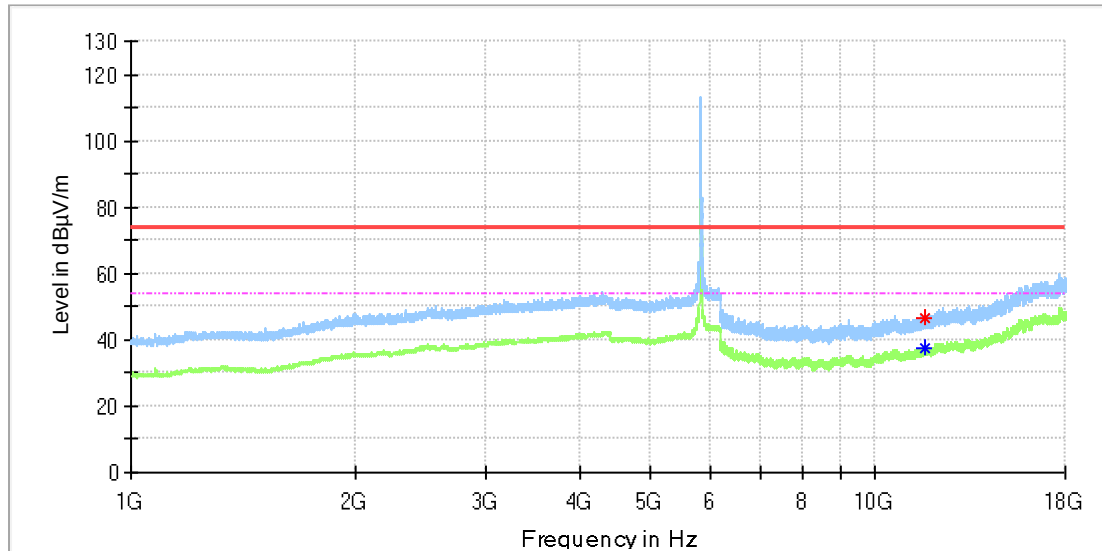
Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
11490.825000	---	37.33	54.00	16.67	100.0	V	136.0	13.7
11495.250000	47.25	---	74.00	26.75	100.0	V	186.0	13.7

Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

Wi-Fi 5G 11a_Ch165



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
11659.958333	---	37.67	54.00	16.33	100.0	H	328.0	13.3
11659.958333	46.40	---	74.00	27.60	100.0	H	328.0	13.3

Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---