

# FCC 15.407 2018

## DUT Information

### Frequencies

5155 MHz (5155 MHz)	5160 MHz (5160 MHz)	5165 MHz (5165 MHz)
5170 MHz (5170 MHz)	5175 MHz (5175 MHz)	5180 MHz (5180 MHz)
5185 MHz (5185 MHz)	5190 MHz (5190 MHz)	5195 MHz (5195 MHz)
5200 MHz (5200 MHz)	5205 MHz (5205 MHz)	5210 MHz (5210 MHz)
5215 MHz (5215 MHz)	5220 MHz (5220 MHz)	5225 MHz (5225 MHz)
5230 MHz (5230 MHz)	5235 MHz (5235 MHz)	5240 MHz (5240 MHz)
5245 MHz (5245 MHz)	5250 MHz (5250 MHz)	5255 MHz (5255 MHz)
5260 MHz (5260 MHz)	5265 MHz (5265 MHz)	5270 MHz (5270 MHz)
5275 MHz (5275 MHz)	5280 MHz (5280 MHz)	5285 MHz (5285 MHz)
5290 MHz (5290 MHz)	5295 MHz (5295 MHz)	5300 MHz (5300 MHz)
5305 MHz (5305 MHz)	5310 MHz (5310 MHz)	5315 MHz (5315 MHz)
5320 MHz (5320 MHz)	5325 MHz (5325 MHz)	5330 MHz (5330 MHz)
5335 MHz (5335 MHz)	5340 MHz (5340 MHz)	5345 MHz (5345 MHz)
5350 MHz (5350 MHz)	5470 MHz (5470 MHz)	5475 MHz (5475 MHz)
5480 MHz (5480 MHz)	5485 MHz (5485 MHz)	5490 MHz (5490 MHz)
5495 MHz (5495 MHz)	5500 MHz (5500 MHz)	5505 MHz (5505 MHz)
5510 MHz (5510 MHz)	5515 MHz (5515 MHz)	5520 MHz (5520 MHz)
5525 MHz (5525 MHz)	5530 MHz (5530 MHz)	5535 MHz (5535 MHz)
5540 MHz (5540 MHz)	5545 MHz (5545 MHz)	5550 MHz (5550 MHz)
5555 MHz (5555 MHz)	5560 MHz (5560 MHz)	5565 MHz (5565 MHz)
5570 MHz (5570 MHz)	5575 MHz (5575 MHz)	5580 MHz (5580 MHz)
5585 MHz (5585 MHz)	5590 MHz (5590 MHz)	5595 MHz (5595 MHz)
5600 MHz (5600 MHz)	5605 MHz (5605 MHz)	5610 MHz (5610 MHz)
5615 MHz (5615 MHz)	5620 MHz (5620 MHz)	5625 MHz (5625 MHz)
5630 MHz (5630 MHz)	5635 MHz (5635 MHz)	5640 MHz (5640 MHz)
5645 MHz (5645 MHz)	5650 MHz (5650 MHz)	5655 MHz (5655 MHz)
5660 MHz (5660 MHz)	5665 MHz (5665 MHz)	5670 MHz (5670 MHz)
5675 MHz (5675 MHz)	5680 MHz (5680 MHz)	5685 MHz (5685 MHz)
5690 MHz (5690 MHz)	5695 MHz (5695 MHz)	5700 MHz (5700 MHz)
5705 MHz (5705 MHz)	5710 MHz (5710 MHz)	5715 MHz (5715 MHz)
5720 MHz (5720 MHz)	5725 MHz (5725 MHz)	5730 MHz (5730 MHz)
5735 MHz (5735 MHz)	5740 MHz (5740 MHz)	5745 MHz (5745 MHz)
5750 MHz (5750 MHz)	5755 MHz (5755 MHz)	5760 MHz (5760 MHz)
5765 MHz (5765 MHz)	5770 MHz (5770 MHz)	5775 MHz (5775 MHz)
5780 MHz (5780 MHz)	5785 MHz (5785 MHz)	5790 MHz (5790 MHz)
5795 MHz (5795 MHz)	5800 MHz (5800 MHz)	5805 MHz (5805 MHz)
5810 MHz (5810 MHz)	5815 MHz (5815 MHz)	5820 MHz (5820 MHz)
5825 MHz (5825 MHz)	5830 MHz (5830 MHz)	5835 MHz (5835 MHz)
5840 MHz (5840 MHz)	5845 MHz (5845 MHz)	5850 MHz (5850 MHz)

### Bandwidths

10 MHz (10 MHz)	20 MHz (20 MHz)	30 MHz (30 MHz)
40 MHz (40 MHz)	80 MHz (80 MHz)	50 MHz (50 MHz)
60 MHz (60 MHz)	160 MHz (160 MHz)	

### Power

24.000 dBm (24 dBm)

### Beamforming Gain

Powerstep name (value)  
24.000 dBm (24 dBm)

Beamforming gain table names  
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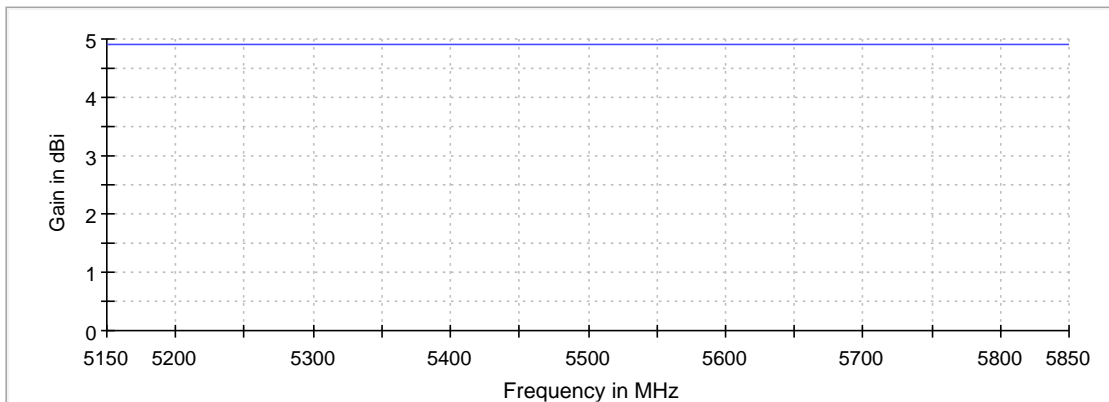
Gain Tables

Powerstep name (value)	Gain table names
24.000 dBm (24 dBm)	Port 1: Nom. Ant.; Port 2: Nom. Ant.;

DUT Settings

No. of transmission chains	2
DFS capability	Yes
DFS Mode	Client with radar detection
Equipment Type	Outdoor AP
TPC	No

Gaintable Nom. Ant.



— Gaintable: Nom. Ant.

## Hardware Setup: WMS Measurements\TS8997 Hardware Setup

Spectrum Analyzer:	SA FSV 40 (SA FSV 40) @ VISA (ADR TCPIP::192.168.48.100::inst0::instr), SN 1321.3008K40/101752, FW 3.60
Vector Generator:	VG SMW200A (VG SMW200A) @ VISA (ADR TCPIP0::A-N5182B- 301471::inst0::INSTR), SN 101752, FW 3.70
Generator:	SMB100A (SMB100A) @ VISA (ADR TCPIP::192.168.48.110::inst0::INSTR), SN 180599, FW 3.20.390.24 / Drv:Rev 2.21.0, 07/2016, CVI 2015
OSP:	OSP-B157W8PLUS (OSP-B157W8PLUS) @ VISA (ADR TCPIP::192.168.48.157::inst0::instr), SN 1527.1144.06 / 100955, FW 2.00.1.0

**Summary**

Test	Frequency (MHz)	Nominal Power (dBm)	Nominal Bandwidth (MHz)	Result
RF output power	5165.000	24.0	20.000000	PASS
Power Spectral Density	5165.000	24.0	20.000000	PASS

**RF output power (5165 MHz; 24.000 dBm; 20 MHz)**

Customized settings.

**Result**

DUT Frequency (MHz)	Gated RMS (dBm)	Limit Max (dBm)	Gated EIRP (dBm)	DutyCycle (%)	Result
5165.000000	9.8	30.0	9.8	85.972	PASS

**OSP PowerMeter settings**

Setting	Instrument Value	Target Value
Measurement Time	1.000 s	1.000 s
Points	1000000	1000000
Time resolution	1.000 $\mu$ s	1.000 $\mu$ s

## Power Spectral Density (5165 MHz; 24.000 dBm; 20 MHz)

Customized settings.

Max level of analyzer (-5.4 dBm) more than 28.0 dB below the nominal power level.

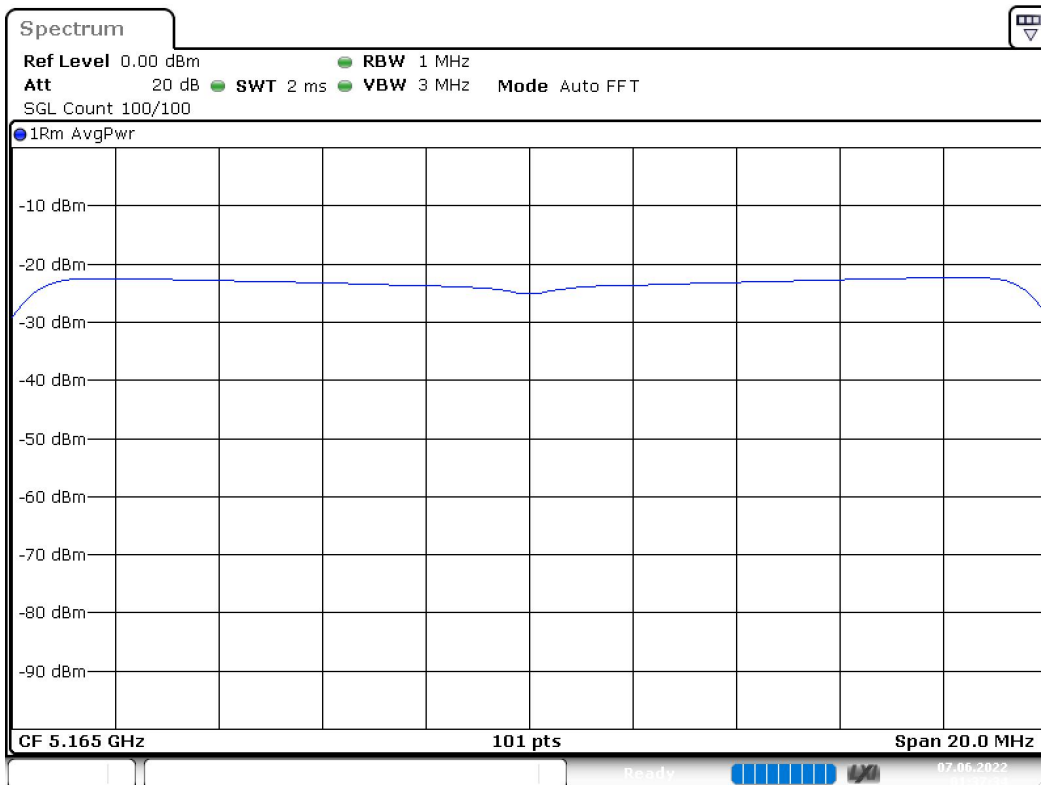
### Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
5165.000000	5173.514851	-5.423	17.0	PASS

### Ports

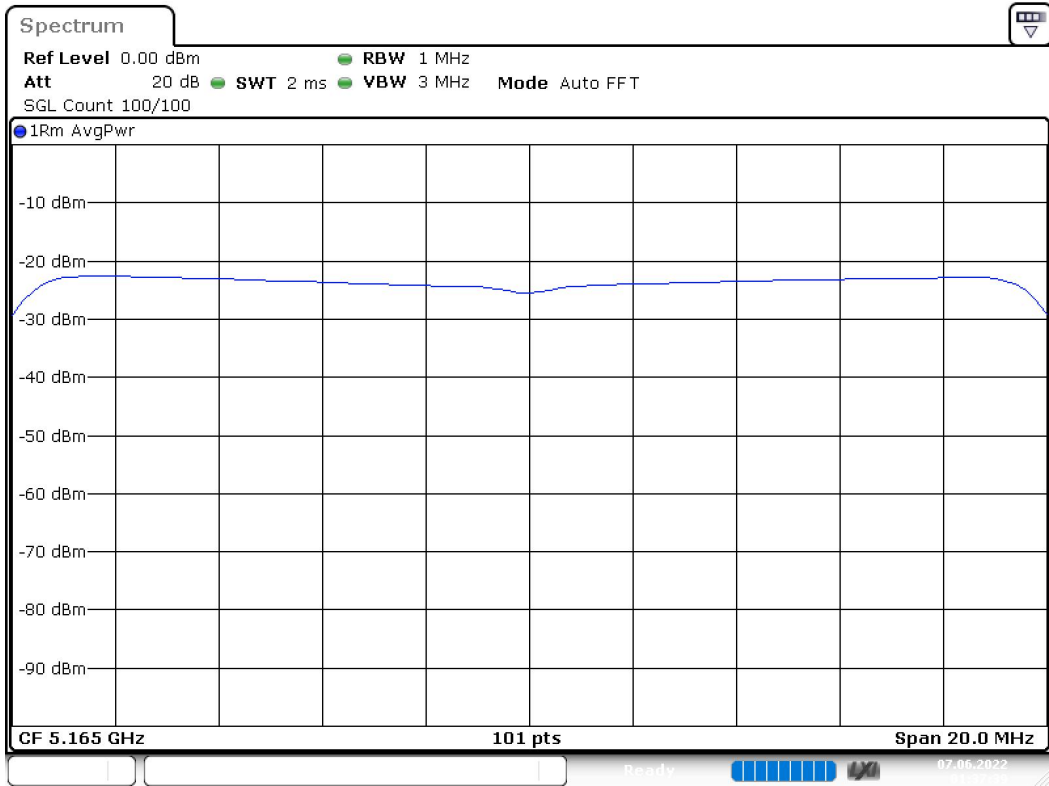
Port	State
1	used
2	used

### PSD Connector 1



Date: 7.JUN.2022 01:37:34

### PSD Connector 2



Date: 7. JUN. 2022 01:37:39

### Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.15500 GHz	5.15500 GHz
Stop Frequency	5.17500 GHz	5.17500 GHz
Span	20.000 MHz	20.000 MHz
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	101	~ 40
SweepTime	2.020 ms	2.020 ms
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	RMS	RMS
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Average Power	Average Power
SweepType	FFT	AUTO
Preamp	off	off