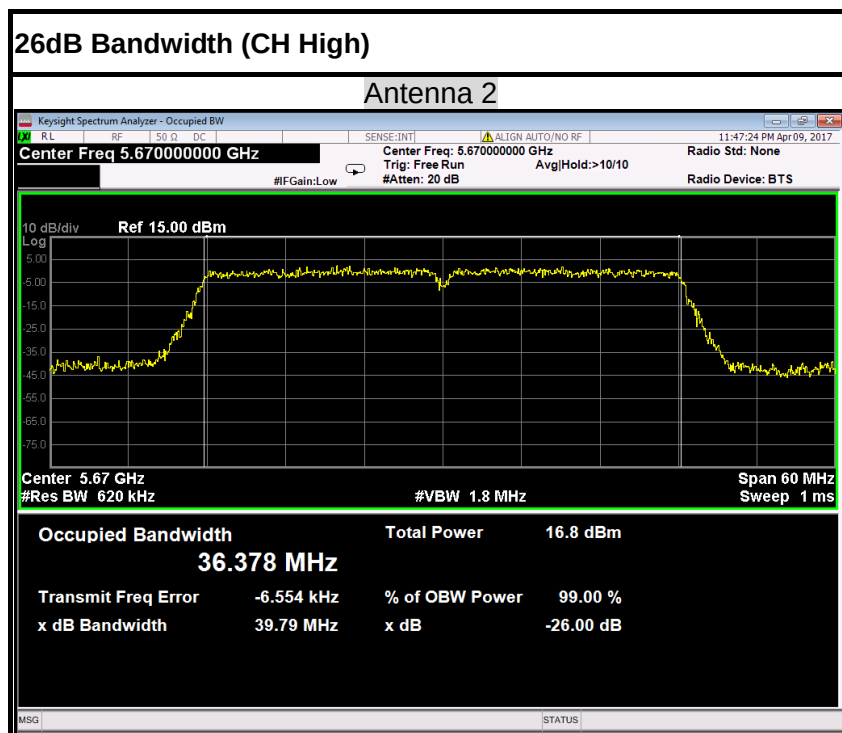
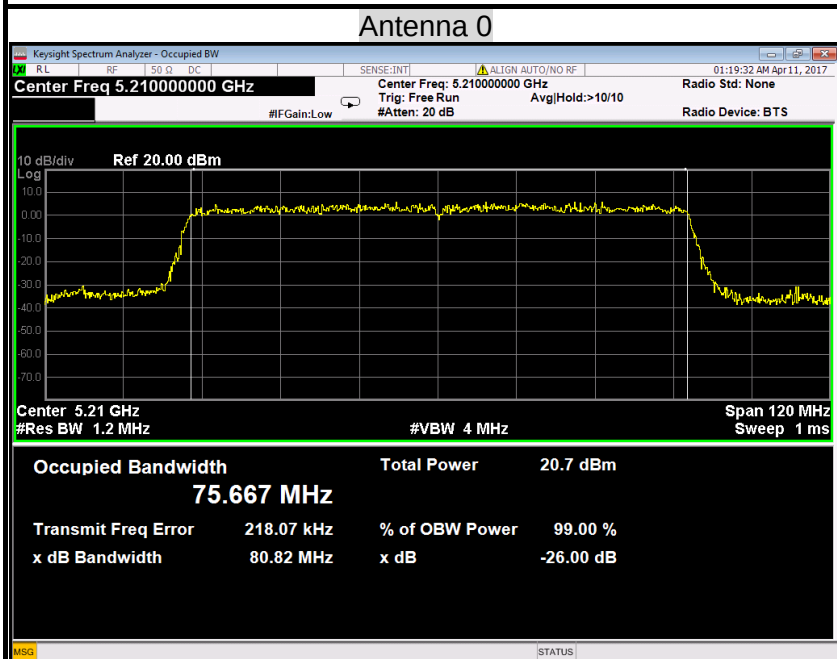






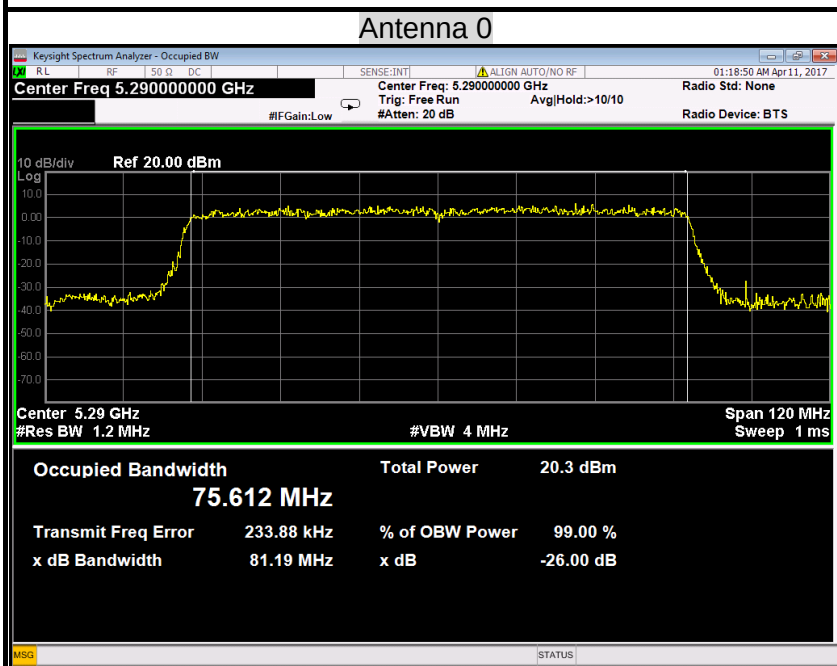
IEEE 802.11ac 80 mode / 5210MHz

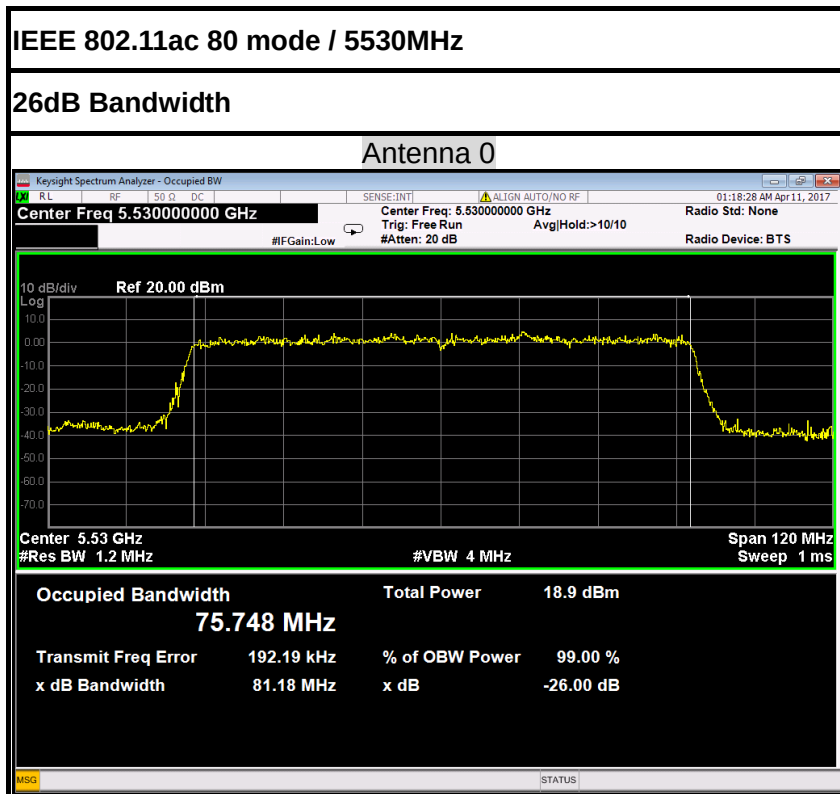
26dB Bandwidth



IEEE 802.11ac 80 mode / 5290MHz

26dB Bandwidth



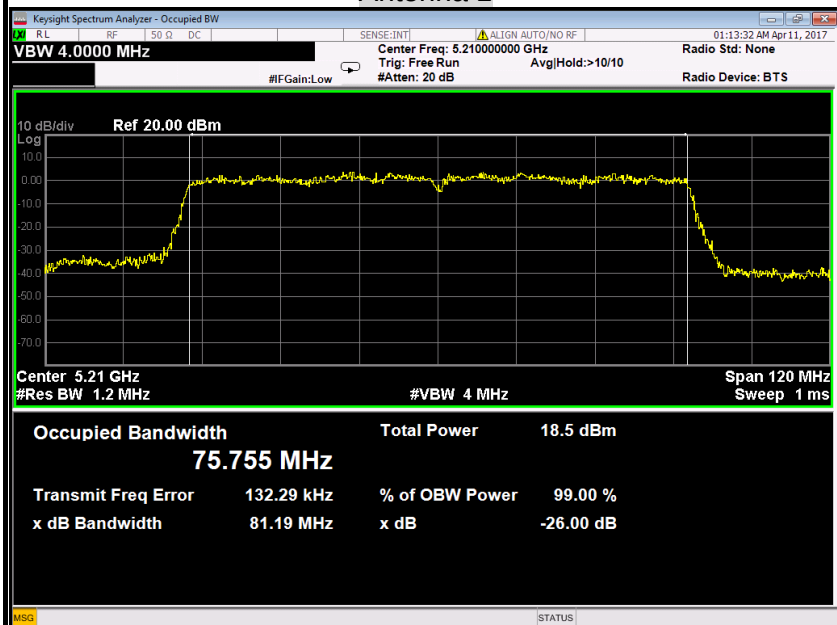




IEEE 802.11ac 80 mode / 5210MHz

26dB Bandwidth

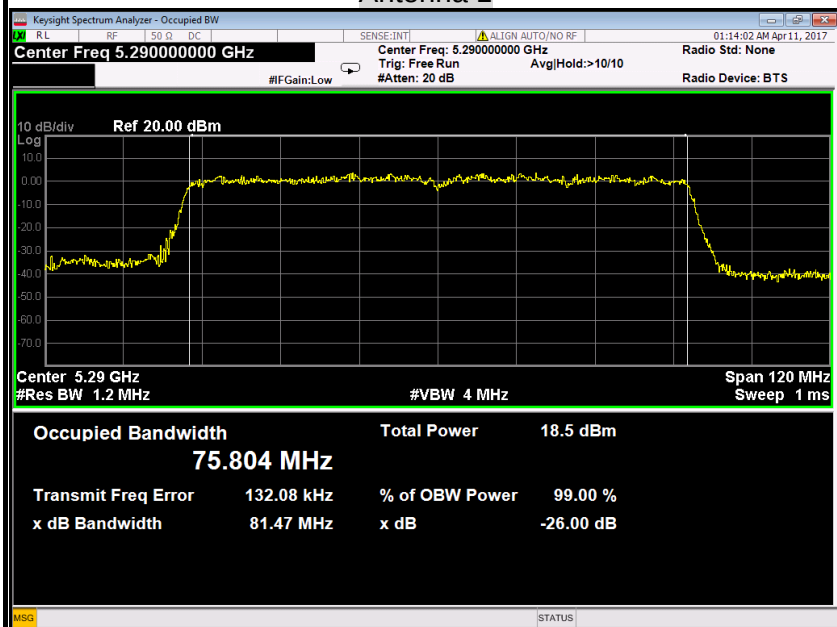
Antenna 1

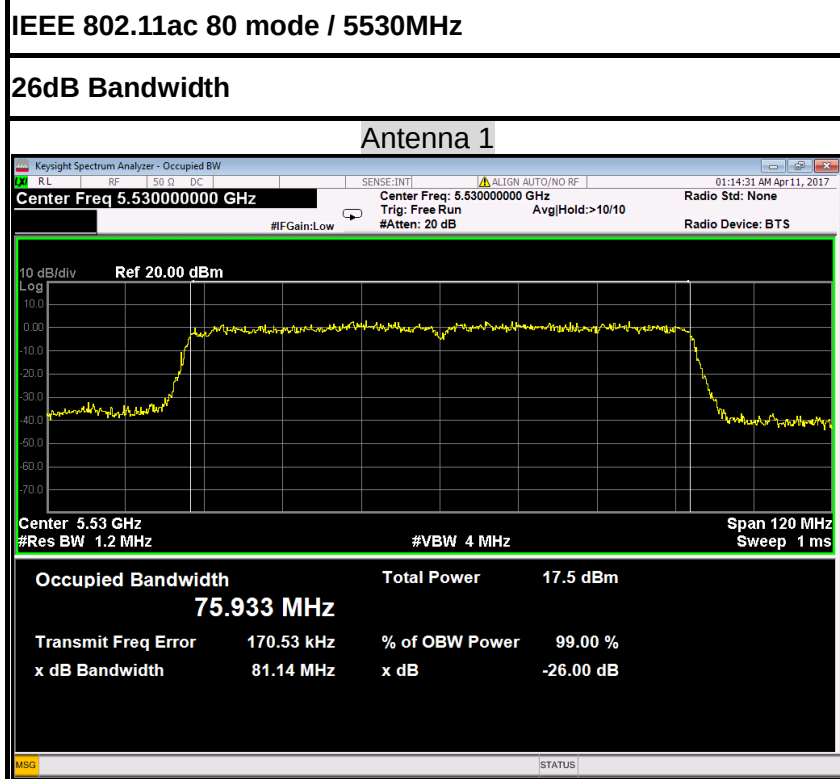


IEEE 802.11ac 80 mode / 5290MHz

26dB Bandwidth

Antenna 1



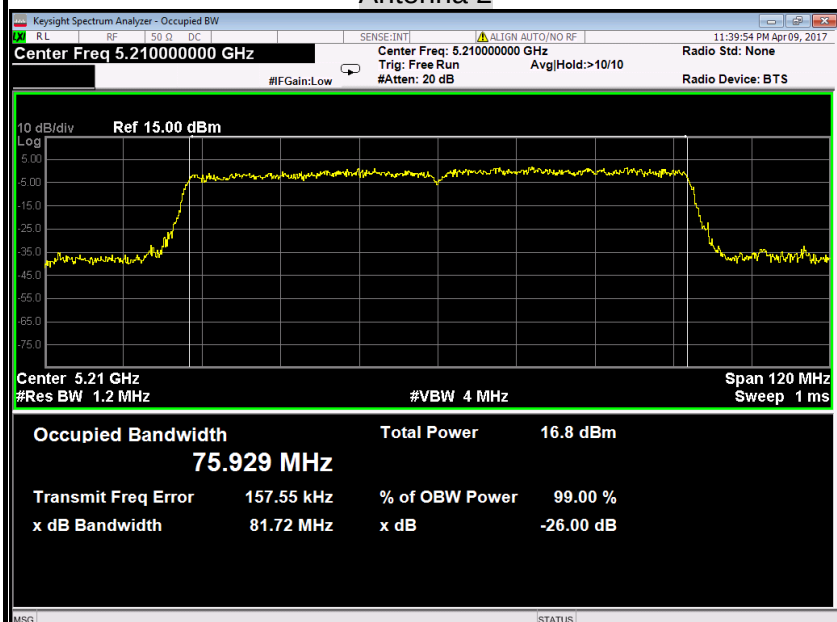




IEEE 802.11ac 80 mode / 5210MHz

26dB Bandwidth

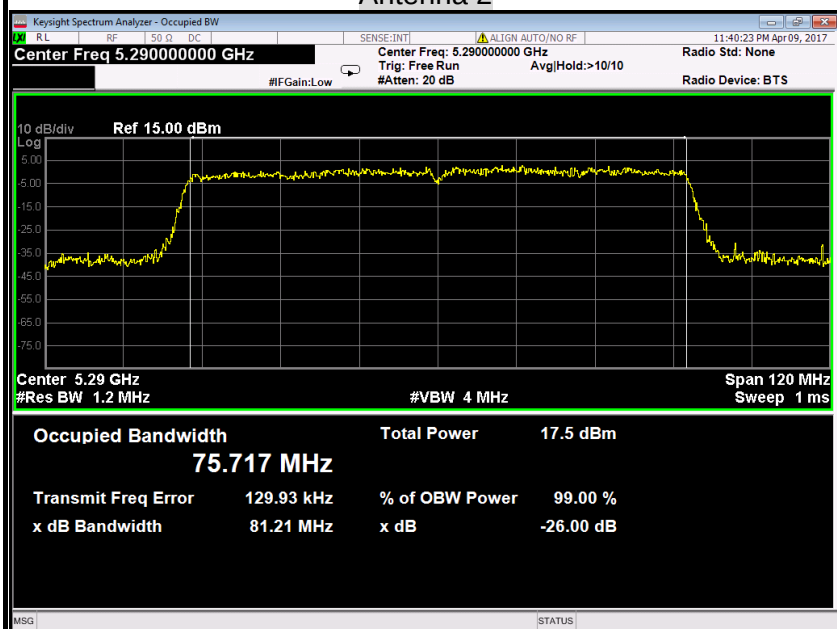
Antenna 2

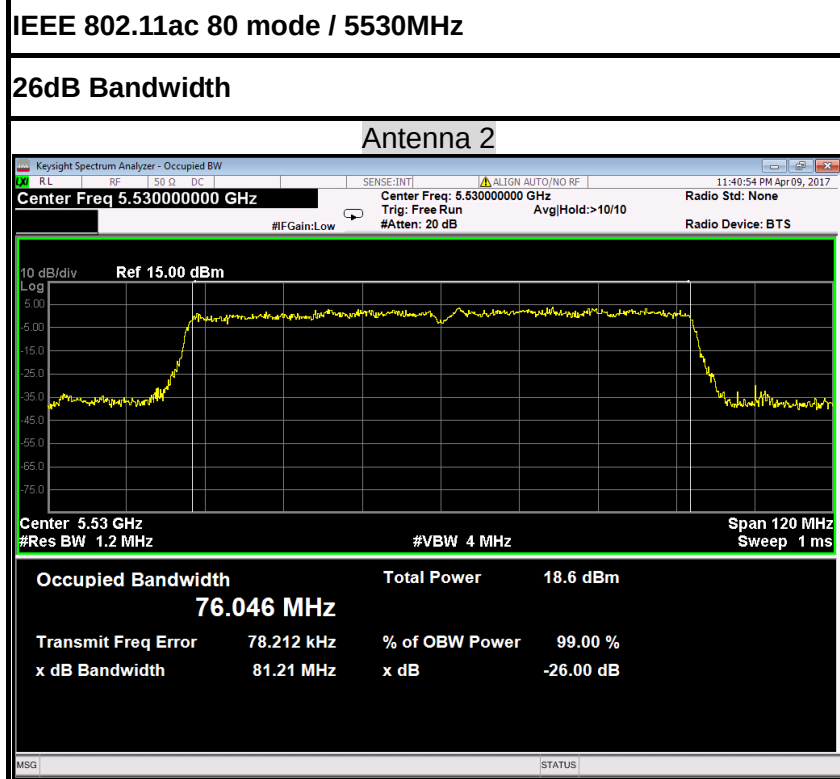


IEEE 802.11ac 80 mode / 5290MHz

26dB Bandwidth

Antenna 2







6.2 6dB BANDWIDTH MEASUREMENT

6.2.1 LIMITS

According to §15.407(e), Within the 5.725-5.85 GHz band, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.

6.2.2 TEST INSTRUMENTS

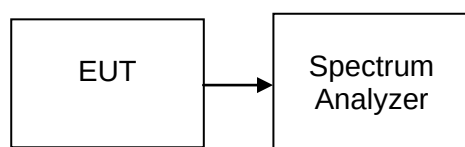
Name of Equipment	Manufacturer	Model	Serial Number	Last Calibration	Calibration Due
Spectrum Analyzer	Agilent	N9010A	MY52221469	02/21/2017	02/20/2018

6.2.3 TEST PROCEDURES (please refer to measurement standard)

8.1 Option 2:

The automatic bandwidth measurement capability of an instrument may be employed using the X dB bandwidth mode with X set to 6 dB, if the functionality described above (i.e., RBW = 100 kHz, VBW $\geq$ 3 RBW, peak detector with maximum hold) is implemented by the instrumentation function. When using this capability, care shall be taken so that the bandwidth measurement is not influenced by any intermediate power nulls in the fundamental emission that might be $\geq$ 6 dB.

6.2.4 TEST SETUP





6.2.5 TEST RESULTS

No non-compliance noted

Test Data

Test mode: IEEE 802.11a mode / 5745 ~ 5825MHz

Channel	Frequency (MHz)	6dB Bandwidth(B) (MHz)			Limit (kHz)	Test Result
		Antenna 0	Antenna 1	Antenna 2		
Low	5745	16.29	16.49	16.37	>500	PASS
Mid	5785	16.45	16.39	16.43		PASS
High	5825	16.39	16.41	16.39		PASS

Test mode: IEEE 802.11n HT 20 MHz mode / 5745 ~ 5825MHz

Channel	Frequency (MHz)	6dB Bandwidth(B) (MHz)			Limit (kHz)	Test Result
		Antenna 0	Antenna 1	Antenna 2		
Low	5745	17.59	17.63	16.72	>500	PASS
Mid	5785	17.63	17.58	17.63		PASS
High	5825	17.62	17.62	17.62		PASS

Test mode: IEEE 802.11n HT 40 MHz mode / 5755 ~ 5795MHz

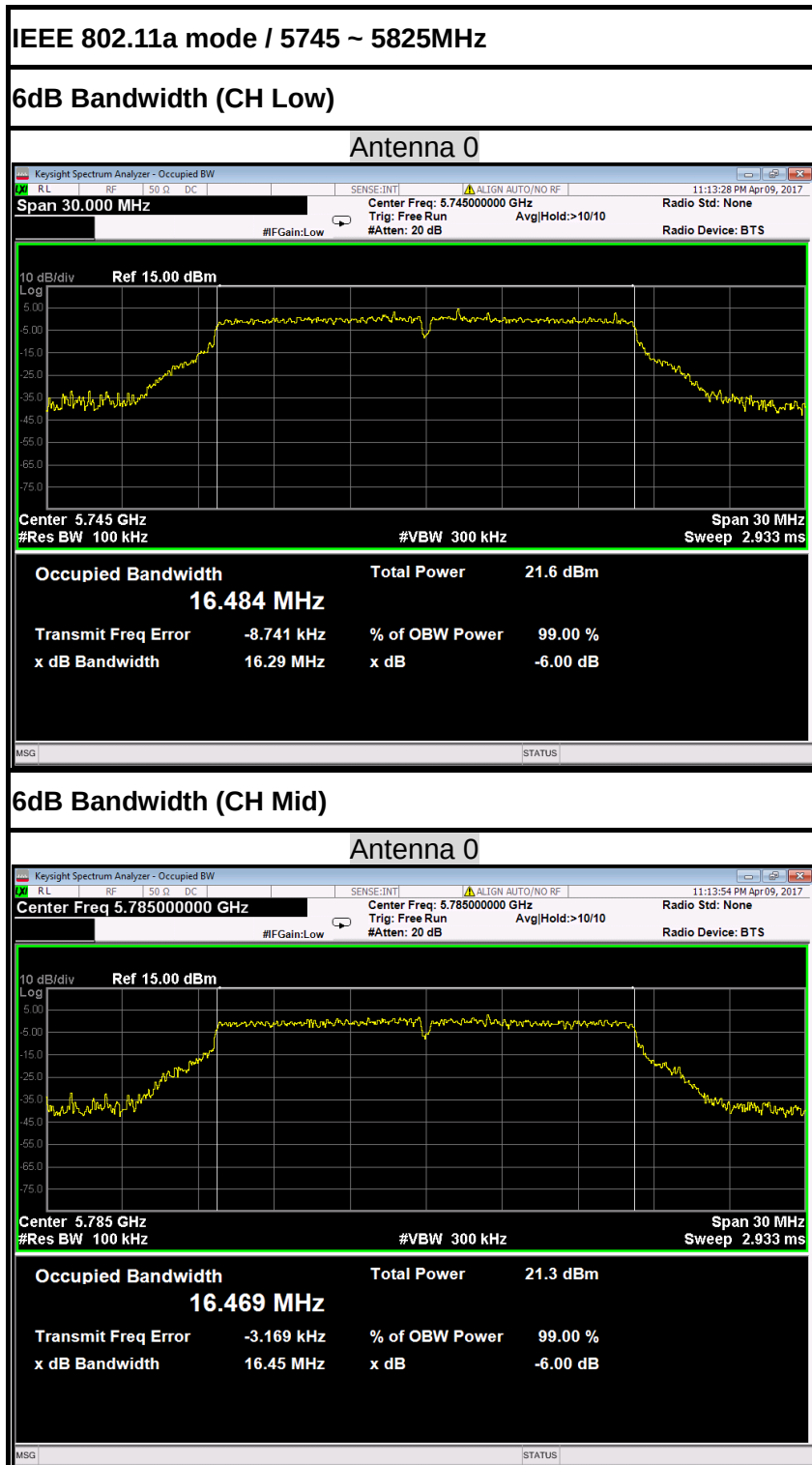
Channel	Frequency (MHz)	6dB Bandwidth(B) (MHz)			Limit (kHz)	Test Result
		Antenna 0	Antenna 1	Antenna 2		
Low	5755	36.45	36.50	36.41	>500	PASS
High	5795	36.48	36.42	36.43		PASS

Test mode: IEEE 802.11ac 80 mode / 5775MHz

Channel	Frequency (MHz)	6dB Bandwidth(B) (MHz)			Limit (kHz)	Test Result
		Antenna 0	Antenna 1	Antenna 2		
	5775	76.23	76.40	76.41	>500	PASS



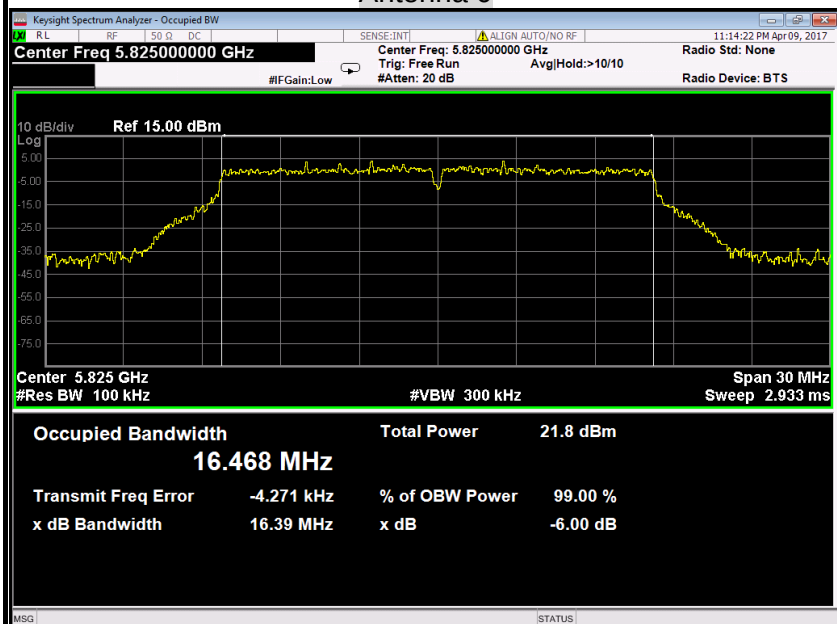
Test Plot





6dB Bandwidth (CH High)

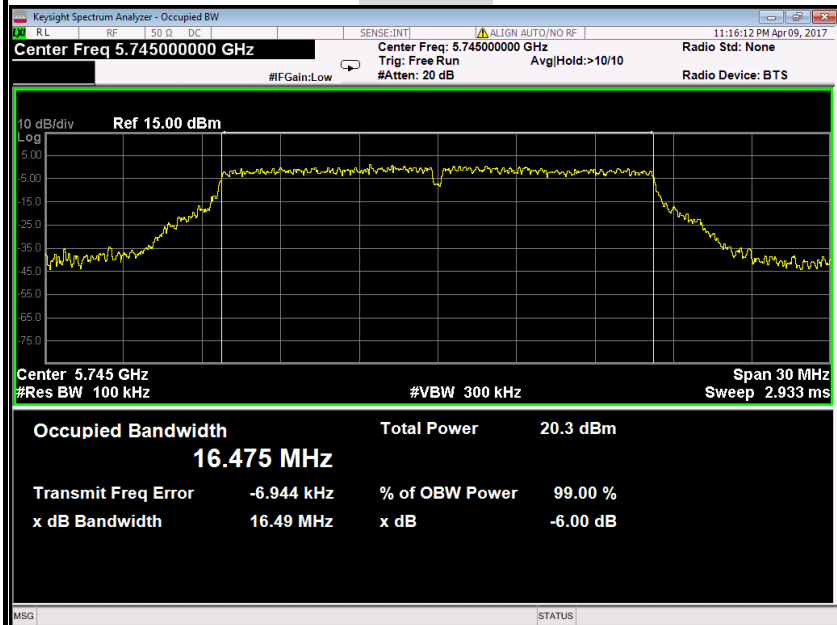
Antenna 0



IEEE 802.11a mode / 5745 ~ 5825MHz

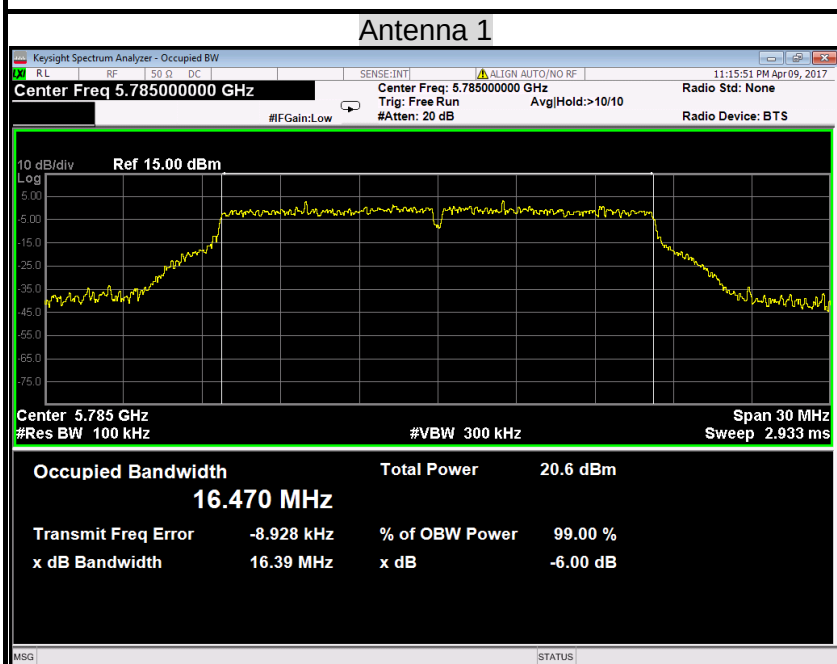
6dB Bandwidth (CH Low)

Antenna 1

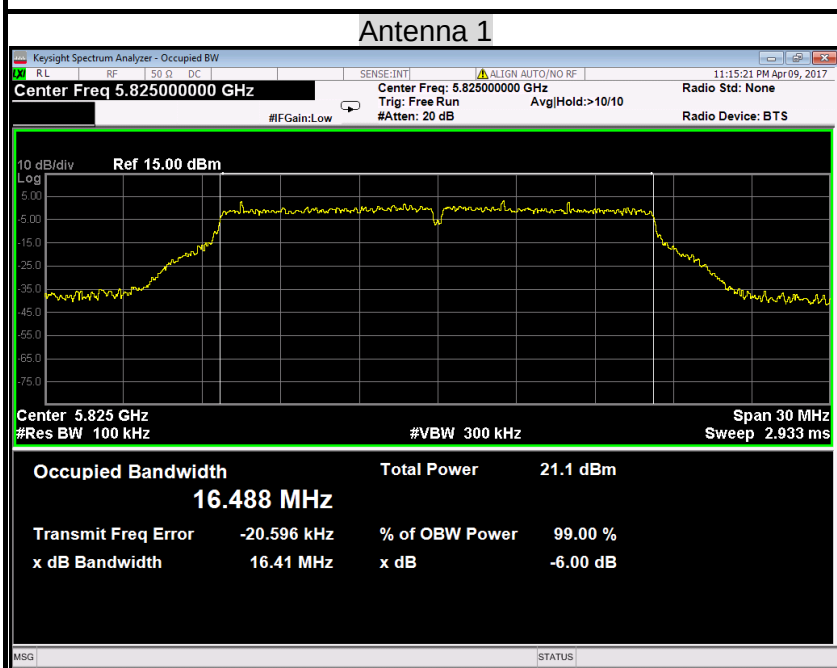




6dB Bandwidth (CH Mid)



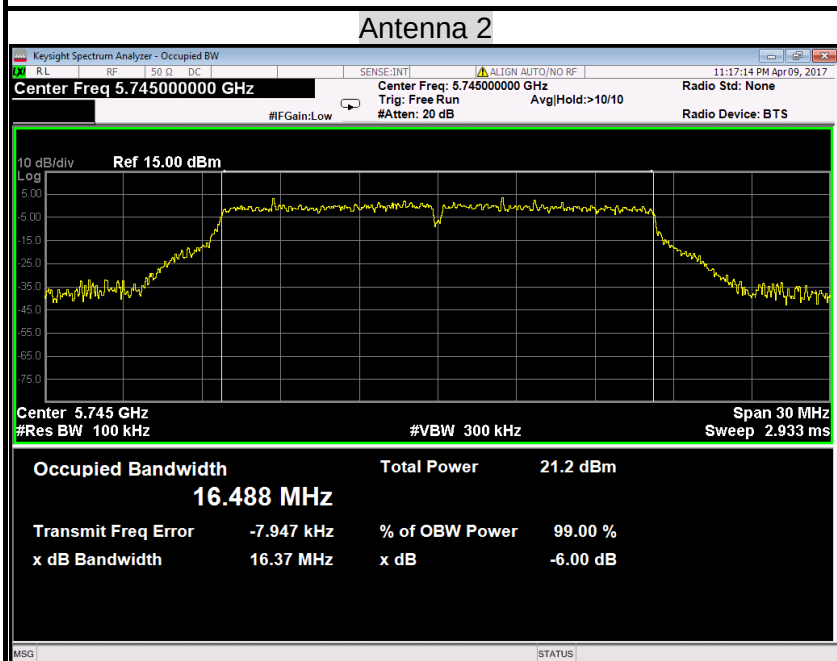
6dB Bandwidth (CH High)



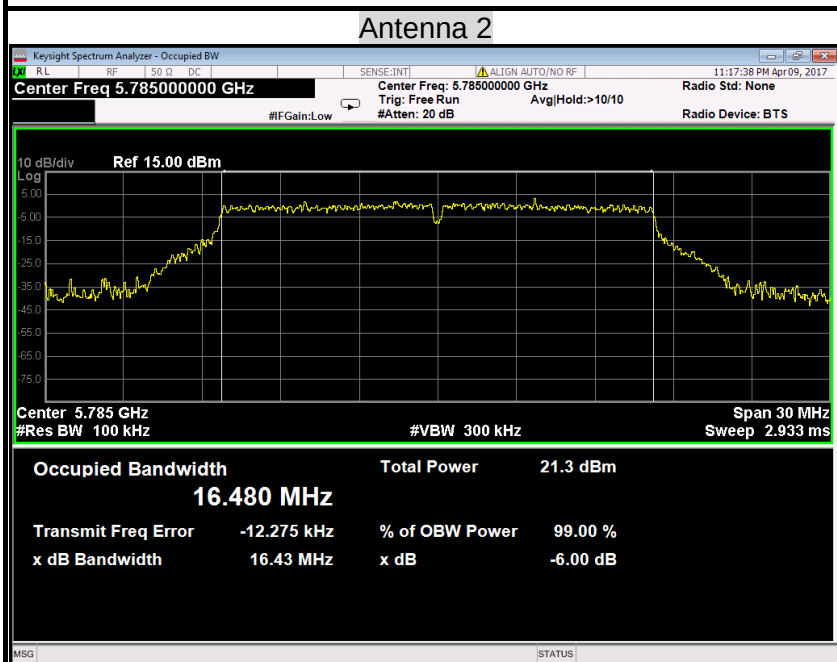


IEEE 802.11a mode / 5745 ~ 5825MHz

6dB Bandwidth (CH Low)

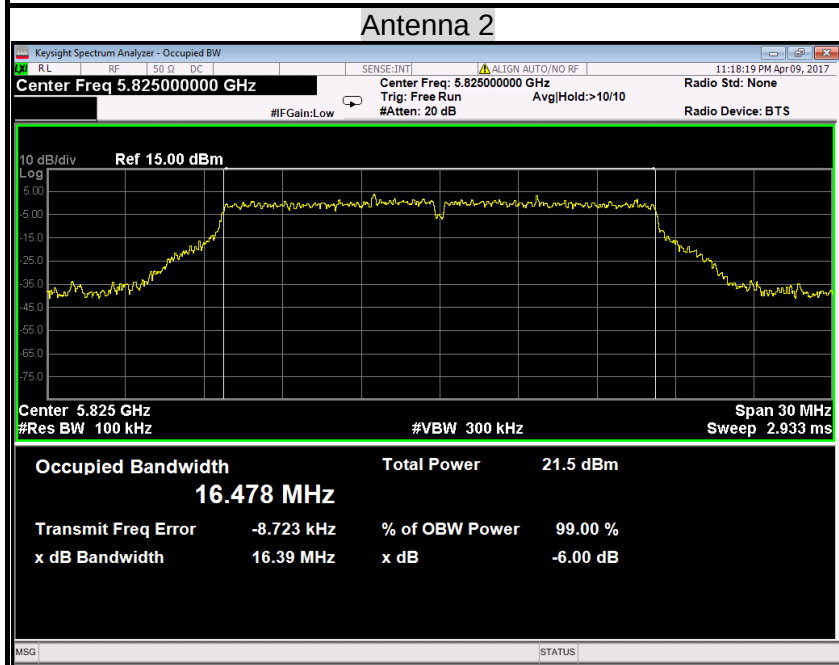


6dB Bandwidth (CH Mid)





6dB Bandwidth (CH High)

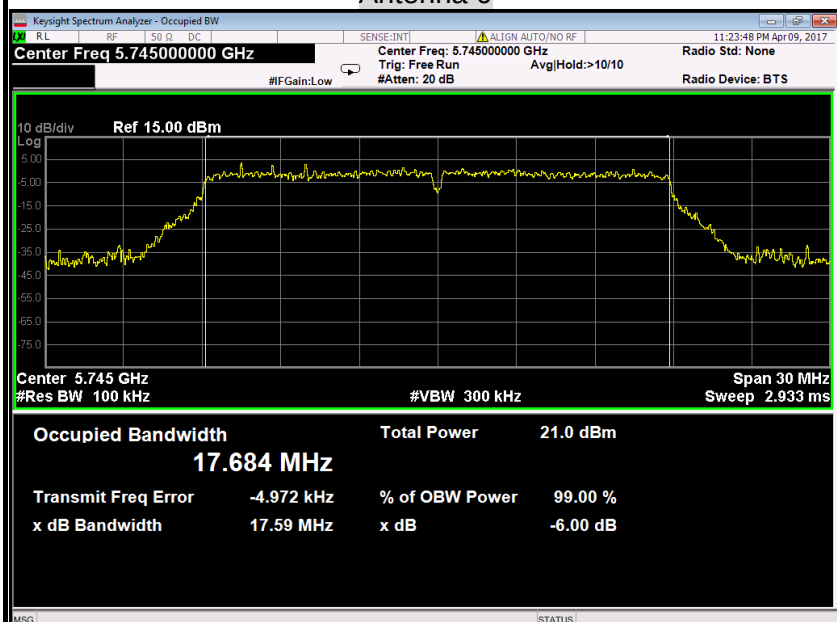




IEEE 802.11n HT 20 MHz mode / 5745 ~ 5825MHz

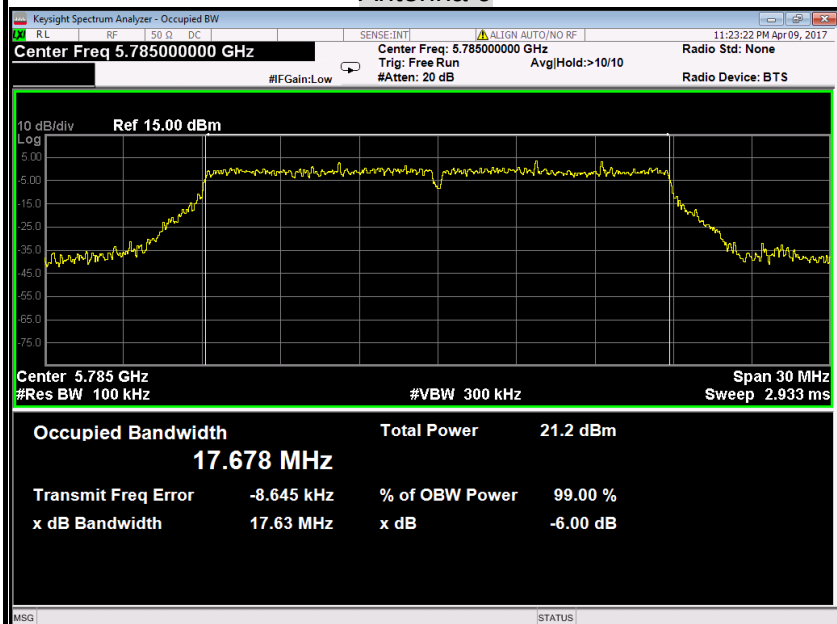
6dB Bandwidth (CH Low)

Antenna 0



6dB Bandwidth (CH Mid)

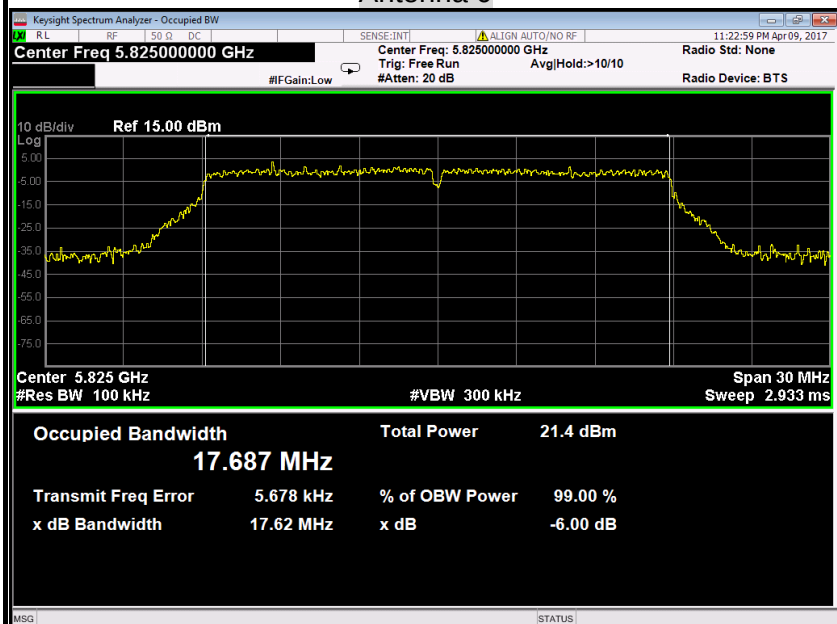
Antenna 0





6dB Bandwidth (CH High)

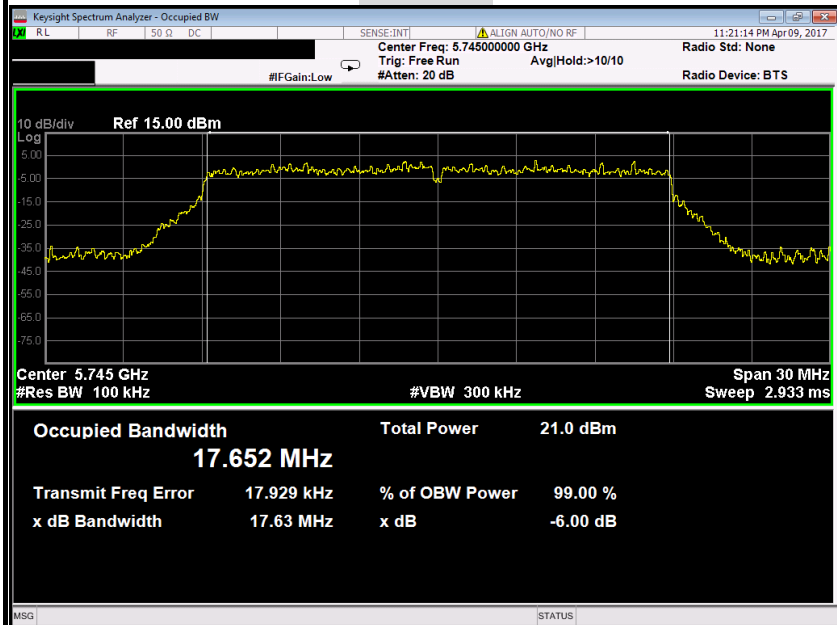
Antenna 0



IEEE 802.11n HT 20 MHz mode / 5745 ~ 5825MHz

6dB Bandwidth (CH Low)

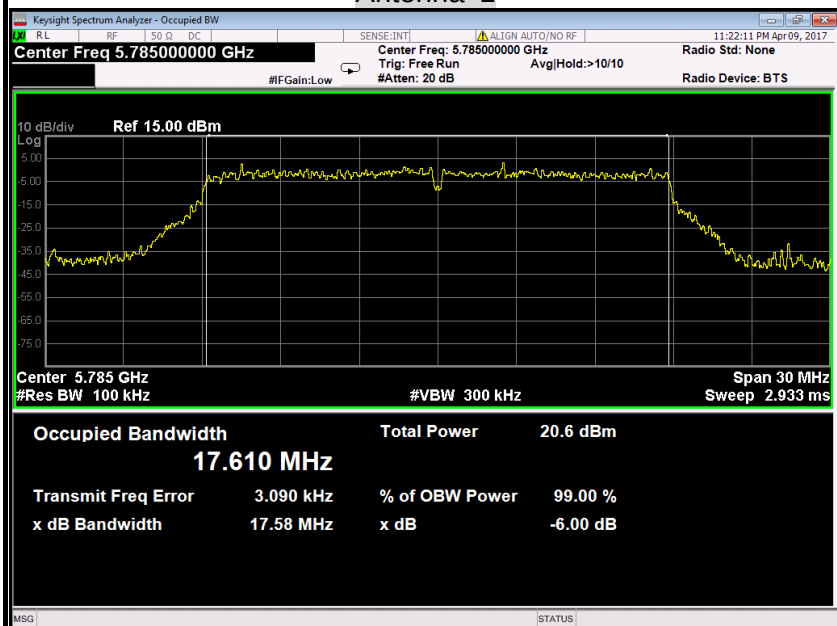
Antenna 1





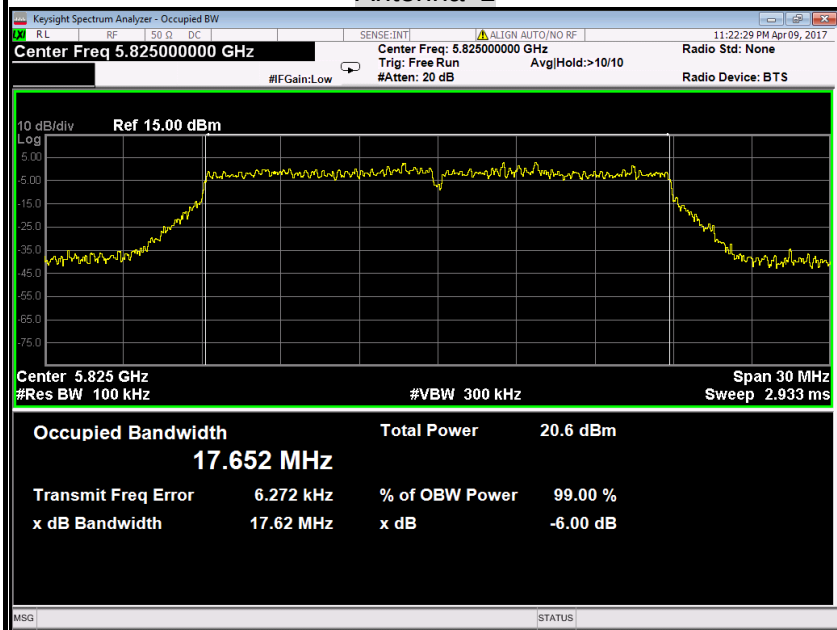
6dB Bandwidth (CH Mid)

Antenna 1



6dB Bandwidth (CH High)

Antenna 1

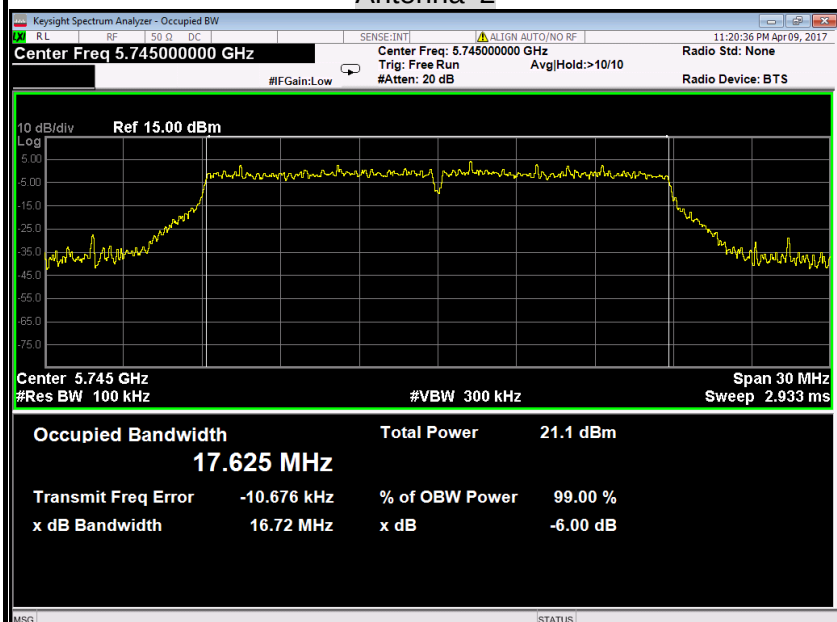




IEEE 802.11n HT 20 MHz mode / 5745 ~ 5825MHz

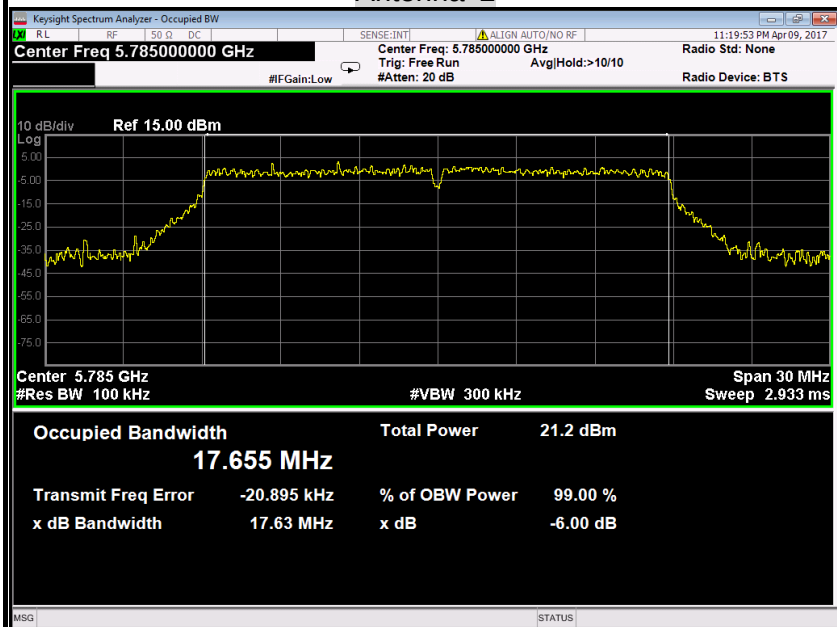
6dB Bandwidth (CH Low)

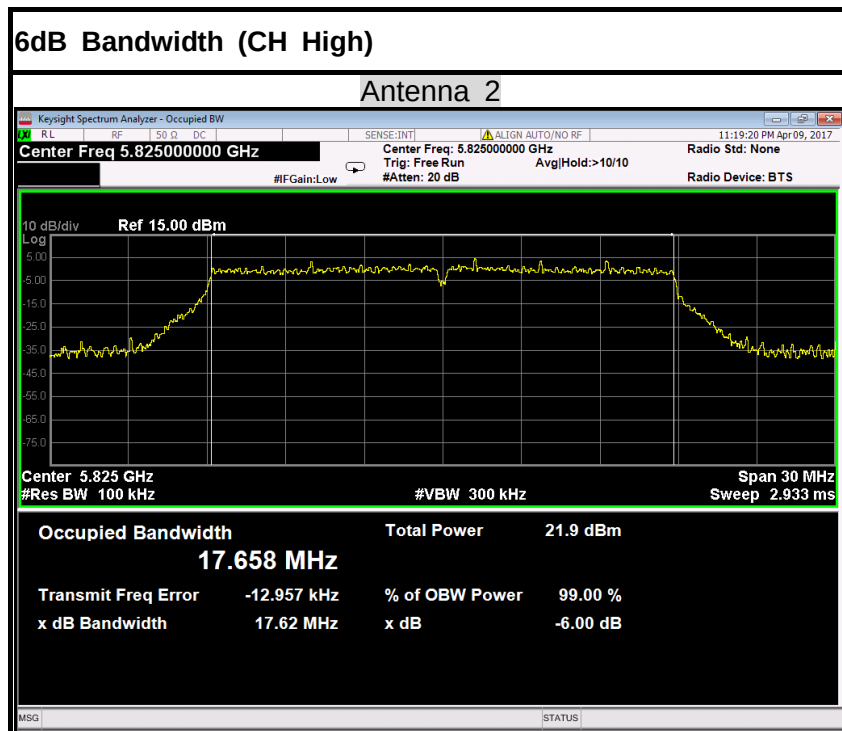
Antenna 2



6dB Bandwidth (CH Mid)

Antenna 2



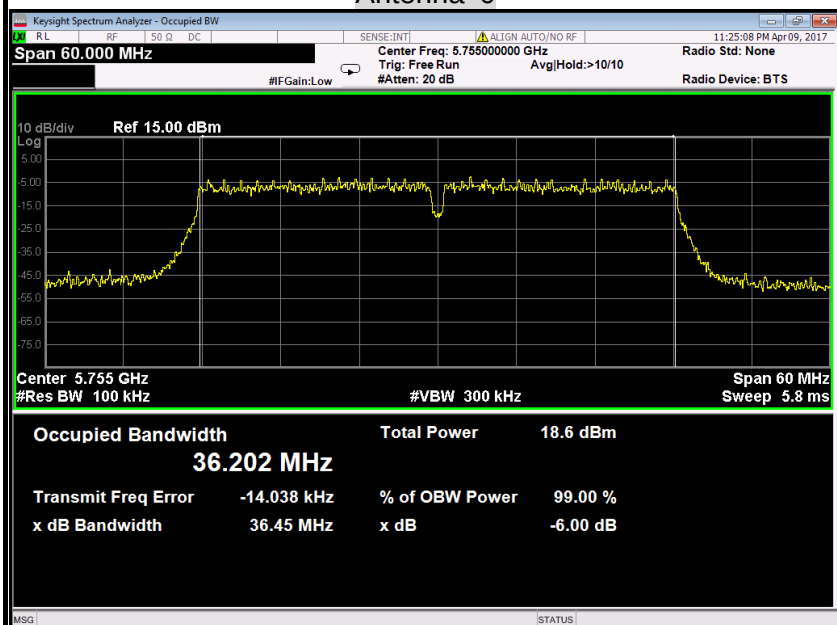




IEEE 802.11n HT 40 MHz mode / 5755 ~ 5795MHz

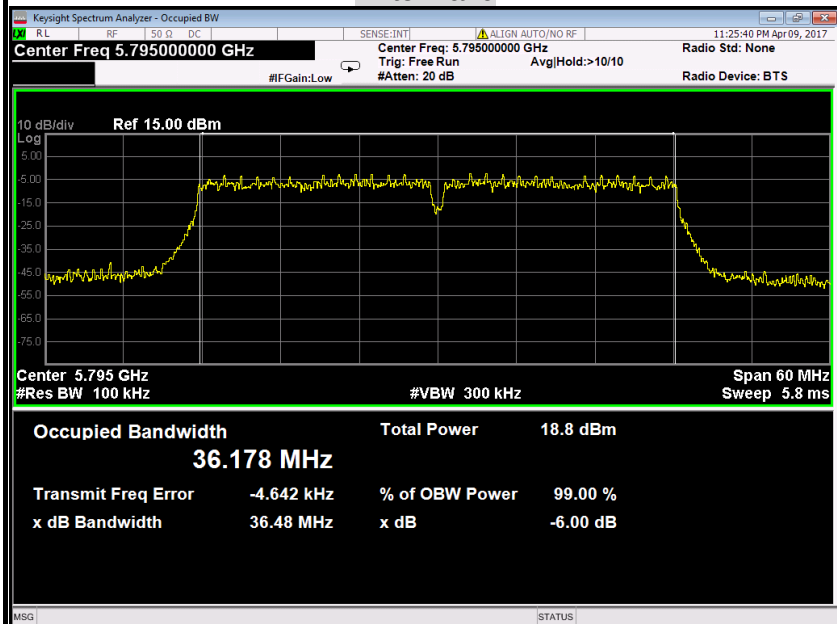
6dB Bandwidth (CH Low)

Antenna 0



6dB Bandwidth (CH High)

Antenna 0

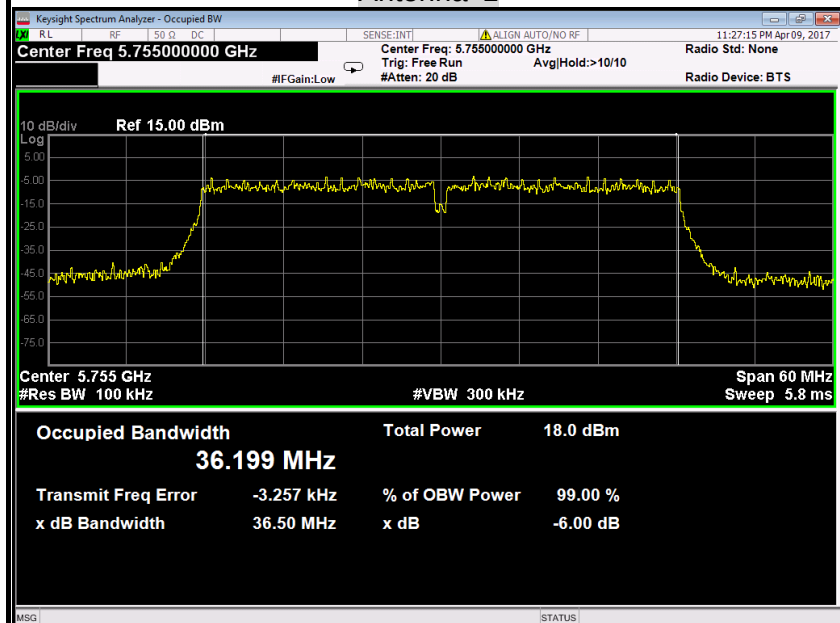




IEEE 802.11n HT 40 MHz mode / 5755 ~ 5795MHz

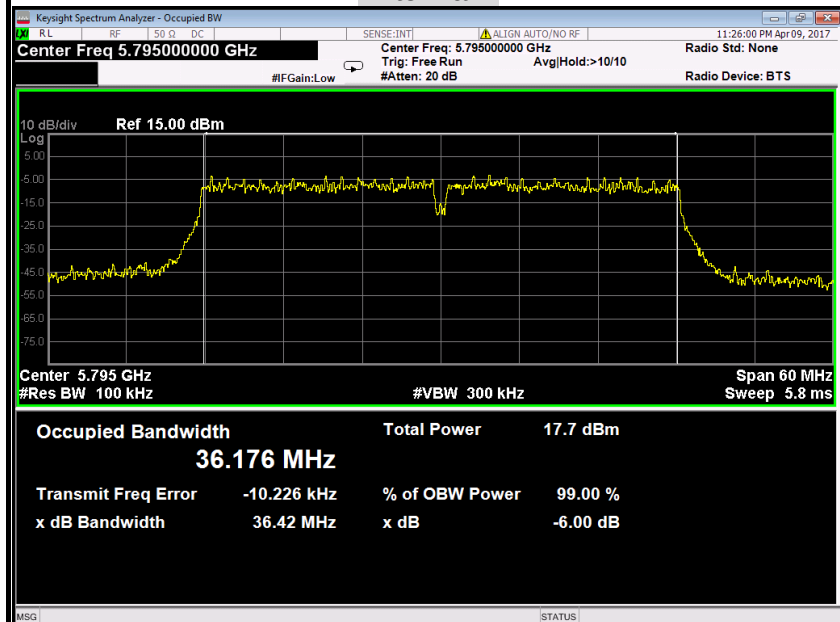
6dB Bandwidth (CH Low)

Antenna 1



6dB Bandwidth (CH High)

Antenna 1

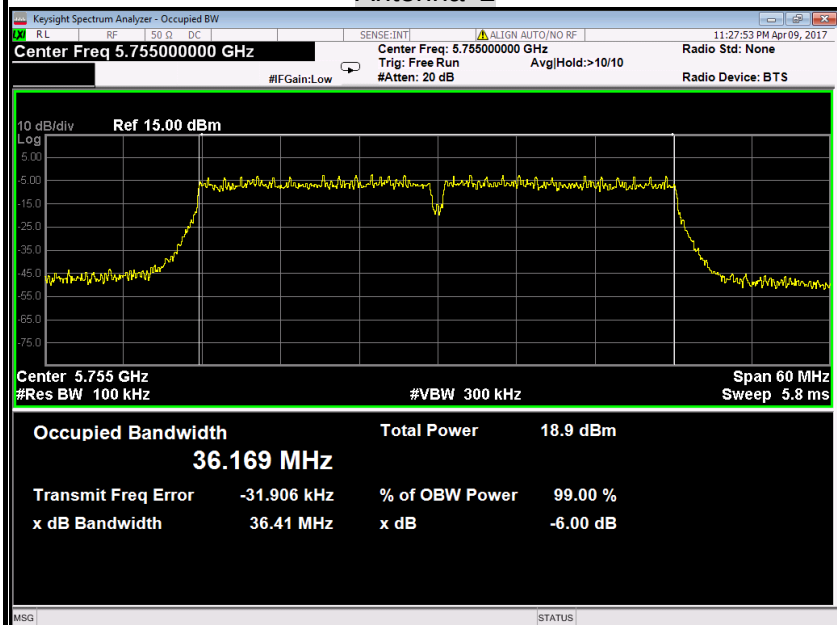




IEEE 802.11n HT 40 MHz mode / 5755 ~ 5795MHz

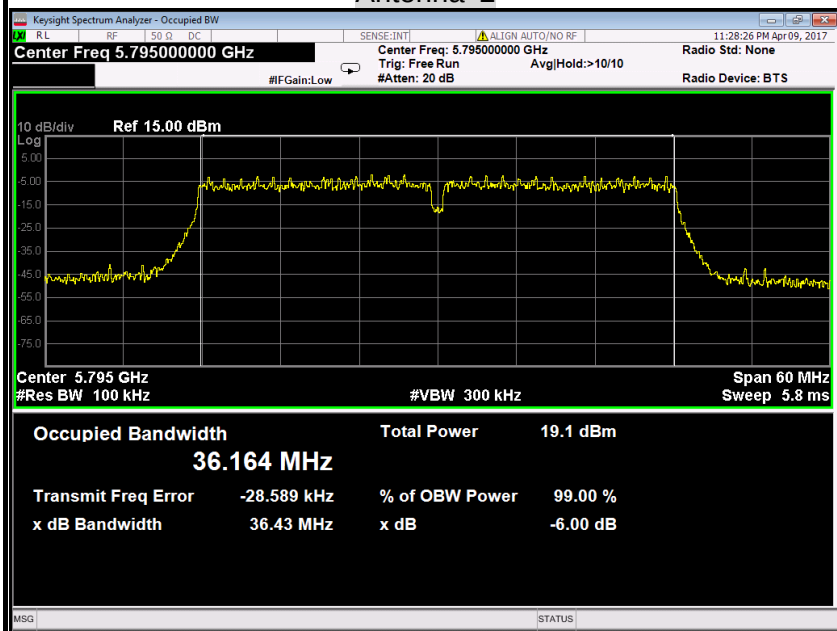
6dB Bandwidth (CH Low)

Antenna 2



6dB Bandwidth (CH High)

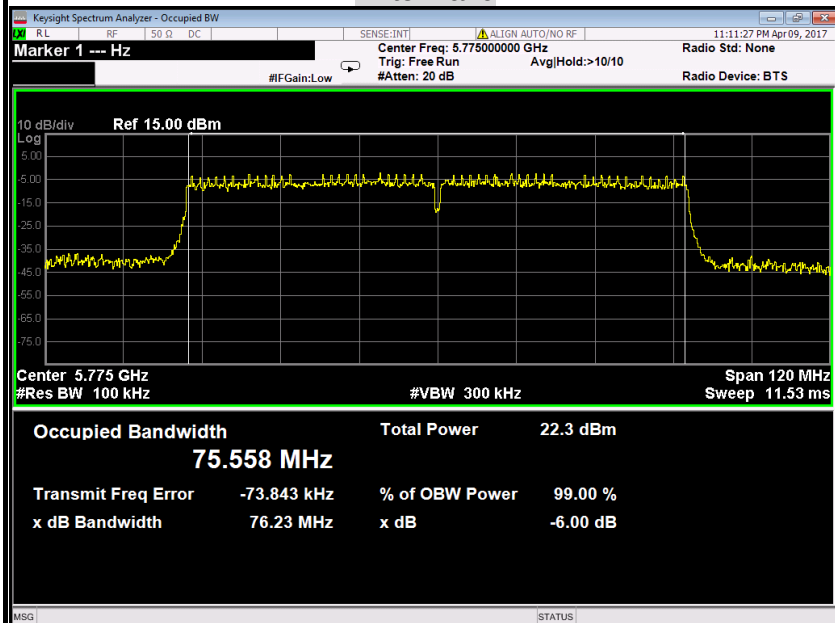
Antenna 2



IEEE 802.11ac 80 MHz mode / 5775MHz

6dB Bandwidth

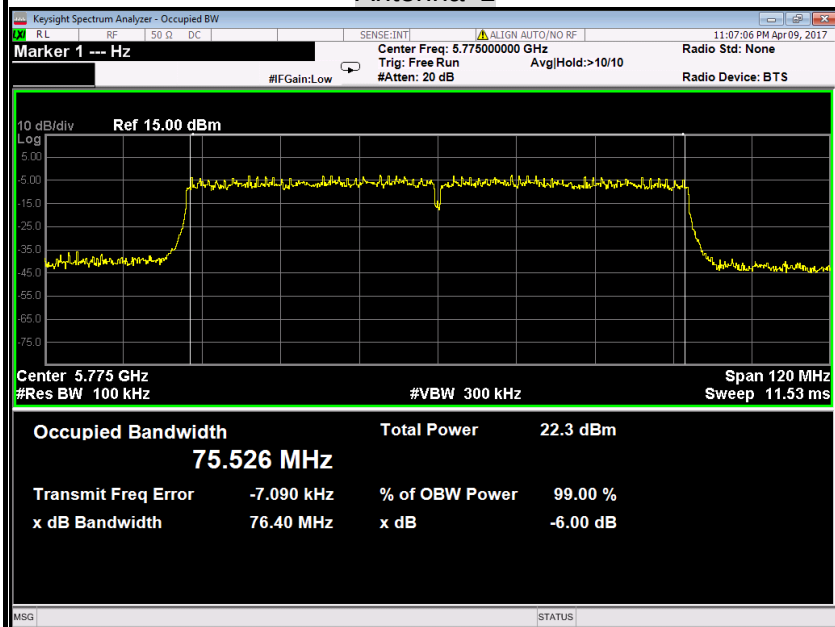
Antenna 0

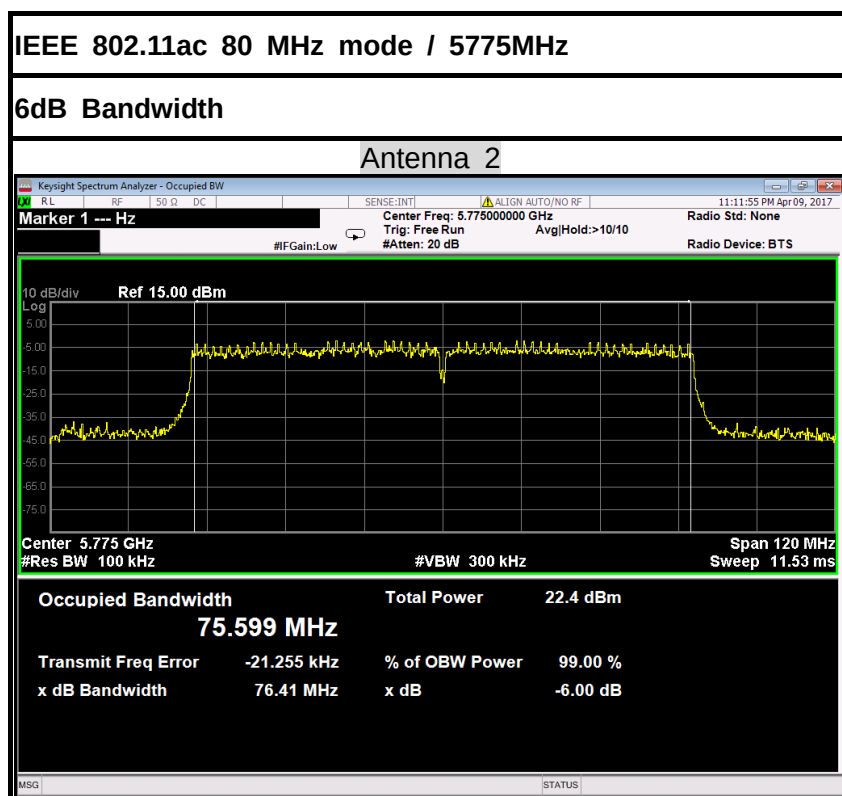


IEEE 802.11ac 80 MHz mode / 5775MHz

6dB Bandwidth

Antenna 1







6.3 ANTENNA GAIN

MEASUREMENT

The antenna gain of the complete system is calculated by the difference of radiated power in EIRP and the conducted power of the module. For UNII devices, the IEEE 802.11a mode is used.

MEASUREMENT PARAMETERS

Measurement parameter	
Detector	Peak
Sweep time	Auto
Resolution bandwidth	3 MHz
Video bandwidth	3 MHz
Trace-Mode	Max hold

LIMITS

FCC	IC
Antenna Gain	
6 dBi	



TEST RESULTS

IEEE 802.11a mode

Antenna 0

IEEE 802.11a mode / 5180 ~ 5240MHz

T _{nom}	V _{nom}	Lowest channel 5180MHz	Highest channel 5240MHz
Conducted power [dBm] Measured with OFDM modulation		9.94	10.24
Radiated power [dBm] Measured with OFDM modulation		11.52	11.79
Gain [dBi] Calculated		1.58	1.55
Measurement uncertainty		± 1.5 dB (cond.) / ± 3 dB (rad.)	

IEEE 802.11a mode / 5260 ~ 5320MHz

T _{nom}	V _{nom}	Lowest channel 5260MHz	Highest channel 5320MHz
Conducted power [dBm] Measured with OFDM modulation		9.55	9.65
Radiated power [dBm] Measured with OFDM modulation		11.43	11.61
Gain [dBi] Calculated		1.88	1.96
Measurement uncertainty		± 1.5 dB (cond.) / ± 3 dB (rad.)	

IEEE 802.11a mode / 5500 ~ 5700MHz

T _{nom}	V _{nom}	Lowest channel 5500MHz	Highest channel 5700MHz
Conducted power [dBm] Measured with OFDM modulation		9.04	8.54
Radiated power [dBm] Measured with OFDM modulation		11.93	10.25
Gain [dBi] Calculated		2.89	1.71
Measurement uncertainty		± 1.5 dB (cond.) / ± 3 dB (rad.)	

IEEE 802.11a mode / 5745 ~ 5825MHz

T _{nom}	V _{nom}	Lowest channel 5745MHz	Highest channel 5825MHz
Conducted power [dBm] Measured with OFDM modulation		9.24	8.84
Radiated power [dBm] Measured with OFDM modulation		10.21	10.85
Gain [dBi] Calculated		0.97	2.01
Measurement uncertainty		± 1.5 dB (cond.) / ± 3 dB (rad.)	

**Antenna 1****IEEE 802.11a mode / 5180 ~ 5240MHz**

T _{nom}	V _{nom}	Lowest channel 5180MHz	Highest channel 5240MHz
Conducted power [dBm] Measured with OFDM modulation		7.94	7.95
Radiated power [dBm] Measured with OFDM modulation		9.29	10.15
Gain [dBi] Calculated		1.35	2.20
Measurement uncertainty		± 1.5 dB (cond.) / ± 3 dB (rad.)	

IEEE 802.11a mode / 5260 ~ 5320MHz

T _{nom}	V _{nom}	Lowest channel 5260MHz	Highest channel 5320MHz
Conducted power [dBm] Measured with OFDM modulation		8.76	8.05
Radiated power [dBm] Measured with OFDM modulation		11.25	10.09
Gain [dBi] Calculated		2.49	2.04
Measurement uncertainty		± 1.5 dB (cond.) / ± 3 dB (rad.)	

IEEE 802.11a mode / 5500 ~ 5700MHz

T _{nom}	V _{nom}	Lowest channel 5500MHz	Highest channel 5700MHz
Conducted power [dBm] Measured with OFDM modulation		7.94	7.26
Radiated power [dBm] Measured with OFDM modulation		9.45	8.54
Gain [dBi] Calculated		1.51	1.28
Measurement uncertainty		± 1.5 dB (cond.) / ± 3 dB (rad.)	

IEEE 802.11a mode / 5745 ~ 5825MHz

T _{nom}	V _{nom}	Lowest channel 5745MHz	Highest channel 5825MHz
Conducted power [dBm] Measured with OFDM modulation		8.16	8.23
Radiated power [dBm] Measured with OFDM modulation		11.13	10.87
Gain [dBi] Calculated		2.97	2.64
Measurement uncertainty		± 1.5 dB (cond.) / ± 3 dB (rad.)	

**Antenna 2****IEEE 802.11a mode / 5180 ~ 5240MHz**

T _{nom}	V _{nom}	Lowest channel 5180MHz	Highest channel 5240MHz
Conducted power [dBm] Measured with OFDM modulation		9.75	9.04
Radiated power [dBm] Measured with OFDM modulation		11.29	11.15
Gain [dBi] Calculated		1.54	2.11
Measurement uncertainty		± 1.5 dB (cond.) / ± 3 dB (rad.)	

IEEE 802.11a mode / 5260 ~ 5320MHz

T _{nom}	V _{nom}	Lowest channel 5260MHz	Highest channel 5320MHz
Conducted power [dBm] Measured with OFDM modulation		9.55	9.76
Radiated power [dBm] Measured with OFDM modulation		11.25	11.09
Gain [dBi] Calculated		1.70	1.33
Measurement uncertainty		± 1.5 dB (cond.) / ± 3 dB (rad.)	

IEEE 802.11a mode / 5500 ~ 5700MHz

T _{nom}	V _{nom}	Lowest channel 5500MHz	Highest channel 5700MHz
Conducted power [dBm] Measured with OFDM modulation		9.04	8.63
Radiated power [dBm] Measured with OFDM modulation		11.86	11.54
Gain [dBi] Calculated		2.82	2.91
Measurement uncertainty		± 1.5 dB (cond.) / ± 3 dB (rad.)	

IEEE 802.11a mode / 5745 ~ 5825MHz

T _{nom}	V _{nom}	Lowest channel 5745MHz	Highest channel 5825MHz
Conducted power [dBm] Measured with OFDM modulation		8.73	9.93
Radiated power [dBm] Measured with OFDM modulation		10.13	11.87
Gain [dBi] Calculated		1.40	1.94
Measurement uncertainty		± 1.5 dB (cond.) / ± 3 dB (rad.)	



6.4 OUTPUT POWER

6.4.1 LIMIT

According to §15.407(a)& FCC R&O FCC 14 - 30,

(1) For the band 5.15-5.25 GHz.

(i) For an outdoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).

(ii) For an indoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

(iii) For fixed point-to-point access points operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. Fixed point-to-point U-NII devices may employ antennas with directional gain up to 23 dBi without any corresponding reduction in the maximum conducted output power or maximum power spectral density. For fixed point-to-point transmitters that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in maximum conducted output power and maximum power spectral density is required for each 1 dB of antenna gain in excess of 23 dBi. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple colocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

(iv) For mobile and portable client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

(2) For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in megahertz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.



(3) For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple colocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

Note to paragraph (a)(3): The Commission strongly recommends that parties employing U-NII devices to provide critical communications services should determine if there are any nearby Government radar systems that could affect their operation.

**Specified Limit of the Output Power****Test mode: IEEE 802.11a mode / 5260 ~ 5320MHz**

Channel	Frequency (MHz)	26 dB Bandwidth (B) (MHz)			10*Log(B) (dB)			11 + 10*Log(B) (dBm)			Maximum Conducted Output Power Limit (dBm)		
		Antenna 0	Antenna 1	Antenna 2	Antenna 0	Antenna 1	Antenna 2	Antenna 0	Antenna 1	Antenna 2	Antenna 0	Antenna 1	Antenna 2
Low	5260	21.01	20.77	20.59	13.22	13.17	13.14	24.22	24.17	24.14	24.00	24.00	24.00
Mid	5300	20.54	20.60	20.70	13.13	13.14	13.16	24.13	24.14	24.16	24.00	24.00	24.00
High	5320	20.53	20.64	20.93	13.12	13.15	13.21	24.12	24.15	24.21	24.00	24.00	24.00

Test mode: IEEE 802.11a mode / 5500 ~ 5700MHz

Channel	Frequency (MHz)	26 dB Bandwidth (B) (MHz)			10*Log(B) (dB)			11 + 10*Log(B) (dBm)			Maximum Conducted Output Power Limit (dBm)		
		Antenna 0	Antenna 1	Antenna 2	Antenna 0	Antenna 1	Antenna 2	Antenna 0	Antenna 1	Antenna 2	Antenna 0	Antenna 1	Antenna 2
Low	5500	20.96	20.67	20.87	13.21	13.15	13.20	24.21	24.15	24.20	24.00	24.00	24.00
Mid	5580	20.86	20.83	20.65	13.19	13.19	13.15	24.19	24.19	24.15	24.00	24.00	24.00
High	5700	20.49	20.95	20.93	13.12	13.21	13.21	24.12	24.21	24.21	24.00	24.00	24.00

Test mode: IEEE 802.11n HT 20 MHz mode / 5260 ~ 5320MHz

Channel	Frequency (MHz)	26 dB Bandwidth (B) (MHz)			10*Log(B) (dB)			11 + 10*Log(B) (dBm)			Maximum Conducted Output Power Limit (dBm)		
		Antenna 0	Antenna 1	Antenna 2	Antenna 0	Antenna 1	Antenna 2	Antenna 0	Antenna 1	Antenna 2	Antenna 0	Antenna 1	Antenna 2
Low	5260	21.06	20.92	21.06	13.23	13.21	13.23	24.23	24.21	24.23	24.00	24.00	24.00
Mid	5300	21.05	20.87	20.87	13.23	13.20	13.20	24.23	24.20	24.20	24.00	24.00	24.00
High	5320	20.84	21.01	20.92	13.19	13.22	13.21	24.19	24.22	24.21	24.00	24.00	24.00

Test mode: IEEE 802.11n HT 20 MHz mode / 5500 ~ 5700MHz

Channel	Frequency (MHz)	26 dB Bandwidth (B) (MHz)			10*Log(B) (dB)			11 + 10*Log(B) (dBm)			Maximum Conducted Output Power Limit (dBm)		
		Antenna 0	Antenna 1	Antenna 2	Antenna 0	Antenna 1	Antenna 2	Antenna 0	Antenna 1	Antenna 2	Antenna 0	Antenna 1	Antenna 2
Low	5500	20.66	20.72	21.08	13.15	13.16	13.24	24.15	24.16	24.24	24.00	24.00	24.00
Mid	5580	20.52	20.88	20.85	13.12	13.20	13.19	24.12	24.20	24.19	24.00	24.00	24.00
High	5700	20.89	21.00	20.98	13.20	13.22	13.22	24.20	24.22	24.22	24.00	24.00	24.00

**IEEE 802.11n HT 40 MHz mode / 5270 ~ 5310MHz**

Channel	Frequency (MHz)	26 dB Bandwidth (B) (MHz)			10*Log(B) (dB)			11 + 10*Log(B) (dBm)			Maximum Conducted Output Power Limit (dBm)		
		Antenna 0	Antenna 1	Antenna 2	Antenna 0	Antenna 1	Antenna 2	Antenna 0	Antenna 1	Antenna 2	Antenna 0	Antenna 1	Antenna 2
Low	5270	39.82	39.74	39.94	16.00	15.99	16.01	27.00	26.99	27.01	24.00	24.00	24.00
High	5310	39.64	39.80	39.98	15.98	16.00	16.02	26.98	27.00	27.02	24.00	24.00	24.00

IEEE 802.11n HT 40 MHz mode / 5510 ~ 5670MHz

Channel	Frequency (MHz)	26 dB Bandwidth (B) (MHz)			10*Log(B) (dB)			11 + 10*Log(B) (dBm)			Maximum Conducted Output Power Limit (dBm)		
		Antenna 0	Antenna 1	Antenna 2	Antenna 0	Antenna 1	Antenna 2	Antenna 0	Antenna 1	Antenna 2	Antenna 0	Antenna 1	Antenna 2
Low	5510	39.28	39.93	39.86	15.94	16.01	16.01	26.94	27.01	27.01	24.00	24.00	24.00
Mid	5550	39.79	39.63	40.16	16.00	15.98	16.04	27.00	26.98	27.04	24.00	24.00	24.00
High	5670	39.53	39.78	39.79	15.97	16.00	16.00	26.97	27.00	27.00	24.00	24.00	24.00

IEEE 802.11ac 80 mode / 5290MHz

Channel	Frequency (MHz)	26 dB Bandwidth (B) (MHz)			10*Log(B) (dB)			11 + 10*Log(B) (dBm)			Maximum Conducted Output Power Limit (dBm)		
		Antenna 0	Antenna 1	Antenna 2	Antenna 0	Antenna 1	Antenna 2	Antenna 0	Antenna 1	Antenna 2	Antenna 0	Antenna 1	Antenna 2
	5290	81.19	81.47	81.21	19.10	19.11	19.10	30.10	30.11	30.10	24.00	24.00	24.00

IEEE 802.11ac 80 mode / 5530MHz

Channel	Frequency (MHz)	26 dB Bandwidth (B) (MHz)			10*Log(B) (dB)			11 + 10*Log(B) (dBm)			Maximum Conducted Output Power Limit (dBm)		
		Antenna 0	Antenna 1	Antenna 2	Antenna 0	Antenna 1	Antenna 2	Antenna 0	Antenna 1	Antenna 2	Antenna 0	Antenna 1	Antenna 2
	5530	81.18	81.14	81.21	19.09	19.09	19.10	30.09	30.09	30.10	24.00	24.00	24.00

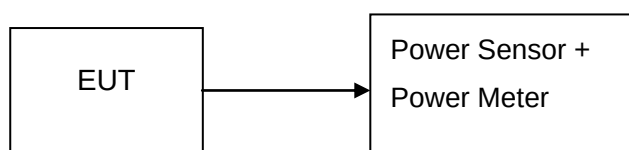


6.4.2 MEASUREMENT EQUIPMENT USED

Name of Equipment	Manufacturer	Model	Serial Number	Last Calibration	Calibration Due
Power Meter	Anritsu	ML2495A	1204003	02/21/2017	02/20/2018
Power Sensor	Anritsu	MA2411B	1126150	02/21/2017	02/20/2018

Remark: Each piece of equipment is scheduled for calibration once a year.

6.4.3 TEST CONFIGURATIONS



6.4.4 TEST PROCEDURE

The EUT was connected to a Power Meter through a 50Ω RF cable.

6.4.5 TEST RESULTS

No non-compliance noted

**6.4.6 TEST DATA****IEEE 802.11a mode / 5180 ~ 5240MHz**

Channel	Frequency (MHz)	AVG Output Power (dBm)			AVG Output Power (W)			Limit (dBm)	Result
		Antenna 0	Antenna 1	Antenna 2	Antenna 0	Antenna 1	Antenna 2		
Low	5180	12.60	10.00	12.60	0.01820	0.01000	0.01820	30.00	PASS
Mid	5200	12.20	10.10	12.40	0.01660	0.01023	0.01738		PASS
High	5240	12.40	9.80	12.40	0.01738	0.00955	0.01738		PASS

IEEE 802.11a mode / 5260~ 5320MHz

Channel	Frequency (MHz)	AVG Output Power (dBm)			AVG Output Power (W)			Limit (dBm)	Result
		Antenna 0	Antenna 1	Antenna 2	Antenna 0	Antenna 1	Antenna 2		
Low	5260	12.40	10.70	12.60	0.01738	0.01175	0.01820	24.00	PASS
Mid	5300	12.20	10.70	12.80	0.01660	0.01175	0.01905		PASS
High	5320	12.20	10.90	12.70	0.01660	0.01230	0.01862		PASS

IEEE 802.11a mode / 5500 ~ 5700MHz

Channel	Frequency (MHz)	AVG Output Power (dBm)			AVG Output Power (W)			Limit (dBm)	Result
		Antenna 0	Antenna 1	Antenna 2	Antenna 0	Antenna 1	Antenna 2		
Low	5500	11.20	10.40	11.50	0.01318	0.01096	0.01413	24.00	PASS
Mid	5580	11.20	10.30	11.00	0.01318	0.01072	0.01259		PASS
High	5700	11.00	10.40	11.20	0.01259	0.01096	0.01318		PASS

IEEE 802.11a mode / 5745 ~ 5825MHz

Channel	Frequency (MHz)	AVG Output Power (dBm)			AVG Output Power (W)			Limit (dBm)	Result
		Antenna 0	Antenna 1	Antenna 2	Antenna 0	Antenna 1	Antenna 2		
Low	5745	11.70	10.90	12.10	0.01479	0.01230	0.01622	30.00	PASS
Mid	5785	11.80	10.90	12.40	0.01514	0.01230	0.01738		PASS
High	5825	11.70	10.80	12.40	0.01479	0.01202	0.01738		PASS

**IEEE 802.11n HT 20 MHz mode / 5180 ~ 5240MHz**

Channel	Frequency (MHz)	AVG Output Power (dBm)				AVG Output Power (W)	Limit (dBm)	Result
		Antenna 0	Antenna 1	Antenna 2	Total			
Low	5180	11.90	9.20	12.10	16.02	0.04002	30.00	PASS
Mid	5200	12.10	9.40	11.90	16.07	0.04042		PASS
High	5240	11.80	9.40	12.10	16.03	0.04006		PASS

IEEE 802.11n HT 20 MHz mode / 5260~ 5320MHz

Channel	Frequency (MHz)	AVG Output Power (dBm)				AVG Output Power (W)	Limit (dBm)	Result
		Antenna 0	Antenna 1	Antenna 2	Total			
Low	5260	12.00	10.20	12.40	16.40	0.04370	24.00	PASS
Mid	5300	11.90	10.30	12.20	16.31	0.04280		PASS
High	5320	12.10	10.20	12.40	16.44	0.04407		PASS

IEEE 802.11n HT 20 MHz mode / 5500 ~ 5700MHz

Channel	Frequency (MHz)	AVG Output Power (dBm)				AVG Output Power (W)	Limit (dBm)	Result
		Antenna 0	Antenna 1	Antenna 2	Total			
Low	5500	11.00	10.10	11.00	15.49	0.03541	24.00	PASS
Mid	5580	10.80	10.20	10.80	15.38	0.03452		PASS
High	5700	10.90	10.30	10.80	15.45	0.03504		PASS

IEEE 802.11n HT 20 MHz mode / 5745 ~ 5825MHz

Channel	Frequency (MHz)	AVG Output Power (dBm)				AVG Output Power (W)	Limit (dBm)	Result
		Antenna 0	Antenna 1	Antenna 2	Total			
Low	5745	11.40	10.70	11.90	16.13	0.04104	30.00	PASS
Mid	5785	11.50	10.60	11.90	16.14	0.04110		PASS
High	5825	11.50	10.30	11.70	15.98	0.03963		PASS

**IEEE 802.11n HT 40 MHz mode / 5190 ~ 5230MHz**

Channel	Frequency (MHz)	AVG Output Power (dBm)				AVG Output Power (W)	Limit (dBm)	Result
		Antenna 0	Antenna 1	Antenna 2	Total			
Low	5190	10.50	7.40	10.20	14.34	0.02719	30.00	PASS
High	5230	10.50	7.50	10.10	14.33	0.02708		PASS

IEEE 802.11n HT 40 MHz mode / 5270 ~ 5310MHz

Channel	Frequency (MHz)	AVG Output Power (dBm)				AVG Output Power (W)	Limit (dBm)	Result
		Antenna 0	Antenna 1	Antenna 2	Total			
Low	5270	10.40	8.30	10.70	14.69	0.02947	24.00	PASS
High	5310	10.50	8.50	10.40	14.66	0.02926		PASS

IEEE 802.11n HT 40 MHz mode / 5510 ~ 5670MHz

Channel	Frequency (MHz)	AVG Output Power (dBm)				AVG Output Power (W)	Limit (dBm)	Result
		Antenna 0	Antenna 1	Antenna 2	Total			
Low	5510	9.30	8.20	9.30	13.73	0.02363	24.00	PASS
Mid	5550	9.10	8.20	8.90	13.52	0.02250		PASS
High	5670	9.10	8.10	8.60	13.39	0.02183		PASS

IEEE 802.11n HT 40 MHz mode / 5755 ~ 5795MHz

Channel	Frequency (MHz)	AVG Output Power (dBm)				AVG Output Power (W)	Limit (dBm)	Result
		Antenna 0	Antenna 1	Antenna 2	Total			
Low	5755	9.30	8.50	9.90	14.04	0.02536	30.00	PASS
High	5795	9.50	8.40	10.00	14.12	0.02583		PASS

**IEEE 802.11ac 80 mode / 5210MHz**

Channel	Frequency (MHz)	AVG Output Power (dBm)				AVG Output Power (W)	Limit (dBm)	Result
		Antenna 0	Antenna 1	Antenna 2	Total			
	5210	10.00	7.50	9.90	14.05	0.02540	30.00	PASS

IEEE 802.11ac 80 mode / 5290MHz

Channel	Frequency (MHz)	AVG Output Power (dBm)				AVG Output Power (W)	Limit (dBm)	Result
		Antenna 0	Antenna 1	Antenna 2	Total			
	5290	9.90	8.20	10.10	14.25	0.02661	24.00	PASS

IEEE 802.11ac 80 mode / 5530MHz

Channel	Frequency (MHz)	AVG Output Power (dBm)				AVG Output Power (W)	Limit (dBm)	Result
		Antenna 0	Antenna 1	Antenna 2	Total			
	5530	8.80	7.90	8.70	13.26	0.02116	24.00	PASS

IEEE 802.11ac 80 mode / 5775MHz

Channel	Frequency (MHz)	AVG Output Power (dBm)				AVG Output Power (W)	Limit (dBm)	Result
		Antenna 0	Antenna 1	Antenna 2	Total			
	5775	9.60	8.70	9.80	14.16	0.02608	30.00	PASS



6.5 BAND EDGES MEASUREMENT

6.5.1 LIMIT

According to §15.407(b)

- (1) The provisions of Section 15.205 of this part apply to intentional radiators operating under this section.
- (2) When measuring the emission limits, the nominal carrier frequency shall be adjusted as close to the upper and lower frequency block edges as the design of the equipment permits.

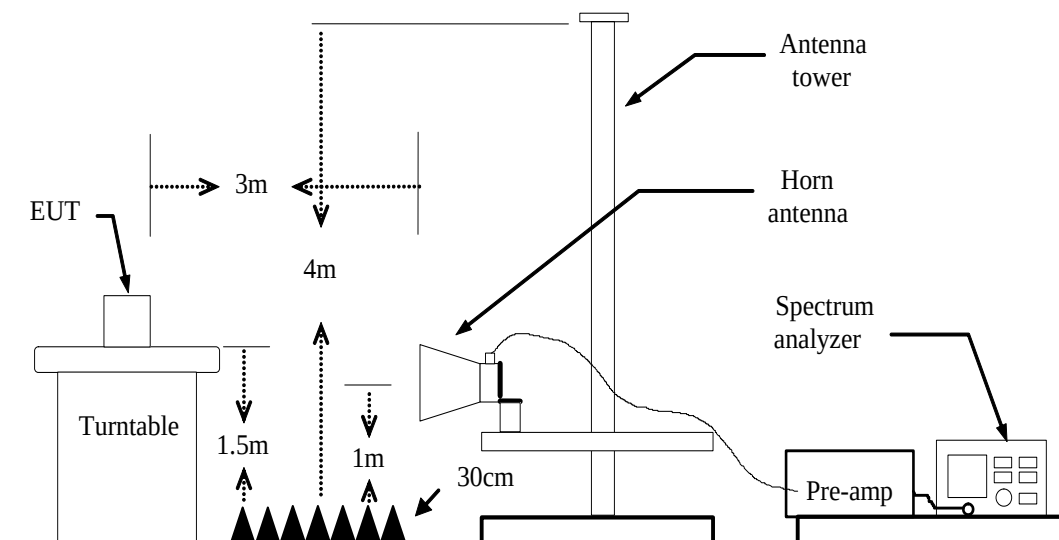
6.5.2 MEASUREMENT EQUIPMENT USED

Radiated Emission Test Site 966(2)					
Name of Equipment	Manufacturer	Model Number	Serial Number	Last Calibration	Due Calibration
PSA Series Spectrum Analyzer	Agilent	N9010A	MY52221469	02/21/2017	02/20/2018
EMI TEST RECEIVER	ROHDE&SCHWARZ	ESCI	100783	02/21/2017	02/20/2018
Amplifier	EMEC	EM330	060661	03/18/2017	03/17/2018
High Noise Amplifier	Agilent	8449B	3008A01838	02/21/2017	02/20/2018
Loop Antenna	COM-POWER	AL-130	121044	09/25/2016	09/24/2017
Bilog Antenna	SCHAFFNER	CBL6143	5082	02/21/2017	02/20/2018
Horn Antenna	SCHWARZBECK	BBHA9120	D286	02/28/2017	02/27/2018
Board-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170-497	02/28/2017	02/27/2018
Turn Table	N/A	N/A	N/A	N.C.R	N.C.R
Antenna Tower	SUNOL	TLT2	N/A	N.C.R	N.C.R
Controller	Sunol Sciences	SC104V	022310-1	N.C.R	N.C.R
Controller	CT	N/A	N/A	N.C.R	N.C.R
Temp. / Humidity Meter	Anymetre	JR913	N/A	02/21/2017	02/20/2018
Test S/W	FARAD	LZ-RF / CCS-SZ-3A2			

- NOTE:** 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. The FCC Site Registration number is 101879.
3. N.C.R = No Calibration Required.



6.5.3 TEST CONFIGURATION



6.5.4 TEST PROCEDURE

1. The EUT is placed on a turntable, which is 1.5m above the ground plane.
2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emission.
4. Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission:
 - (a) PEAK: RBW=1 / VBW=3MHz / Sweep=AUTO
 - (b) AVERAGE: RBW=1MHz / VBW=10Hz / Sweep=AUTO / Detector=Peak
5. Repeat the procedures until all the PEAK and AVERAGE versus POLARIZATION are measured.



6.5.5 TEST RESULT

IEEE 802.11a mode / 5500 ~ 5700MHz

Antenna 0:

1. Operating Frequency: 5500-5700MHz
2. CH Low: 5500MHz, CH High: 5700MHz
3. 26dB bandwidth: CH Low: 20.96MHz, CH High: 20.49MHz
4. Frequency Range: 5489.5200MHz, 5710.2450MHz

Antenna 1:

1. Operating Frequency: 5500-5700MHz
2. CH Low: 5500MHz, CH High: 5700MHz
3. 26dB bandwidth: CH Low: 20.67MHz, CH High: 20.95MHz
4. Frequency Range: 5489.6650MHz, 5710.4750MHz

Antenna 2:

1. Operating Frequency: 5500-5700MHz
2. CH Low: 5500MHz, CH High: 5700MHz
3. 26dB bandwidth: CH Low: 20.87MHz, CH High: 20.93MHz
4. Frequency Range: 5489.5650MHz, 5710.4650MHz

IEEE 802.11a mode / 5745 ~ 5825MHz

Antenna 0:

1. Operating Frequency: 5745-5825MHz
2. CH Low: 5745MHz, CH High: 5825MHz
3. 26dB bandwidth: CH Low: 20.97MHz, CH High: 20.69MHz
4. Frequency Range: 5734.5150MHz, 5835.3450MHz

Antenna 1:

1. Operating Frequency: 5745-5825MHz
2. CH Low: 5745MHz, CH High: 5825MHz
3. 26dB bandwidth: CH Low: 20.98MHz, CH High: 20.90MHz
4. Frequency Range: 5734.5100MHz, 5835.4500MHz

Antenna 2:

1. Operating Frequency: 5745-5825MHz
2. CH Low: 5745MHz, CH High: 5825MHz
3. 26dB bandwidth: CH Low: 20.88MHz, CH High: 20.67MHz
4. Frequency Range: 5734.5600MHz, 5835.3350MHz



IEEE 802.11n HT 20 MHz mode / 5500 ~ 5700MHz

Antenna 0:

1. Operating Frequency: 5500-5700MHz
2. CH Low: 5500MHz, CH High: 5700MHz
3. 26dB bandwidth: CH Low: 20.66MHz, CH High: 20.89MHz
4. Frequency Range: 5489.6700MHz, 5710.4450MHz

Antenna 1:

1. Operating Frequency: 5500-5700MHz
2. CH Low: 5500MHz, CH High: 5700MHz
3. 26dB bandwidth: CH Low: 20.72MHz, CH High: 21.00MHz
4. Frequency Range: 5489.6400MHz, 5710.500MHz

Antenna 2:

1. Operating Frequency: 5500-5700MHz
2. CH Low: 5500MHz, CH High: 5700MHz
3. 26dB bandwidth: CH Low: 21.08MHz, CH High: 20.98MHz
4. Frequency Range: 5489.4600MHz, 5710.4900MHz

IEEE 802.11n HT 20 MHz mode / 5745 ~ 5825MHz

Antenna 0:

1. Operating Frequency: 5745-5825MHz
2. CH Low: 5745MHz, CH High: 5825MHz
3. 26dB bandwidth: CH Low: 20.83MHz, CH High: 20.60MHz
4. Frequency Range: 5734.5850MHz, 5835.3000MHz

Antenna 1:

1. Operating Frequency: 5745-5825MHz
2. CH Low: 5745MHz, CH High: 5825MHz
3. 26dB bandwidth: CH Low: 20.91MHz, CH High: 20.76MHz
4. Frequency Range: 5734.5450MHz, 5835.3800MHz

Antenna 2:

1. Operating Frequency: 5745-5825MHz
2. CH Low: 5745MHz, CH High: 5825MHz
3. 26dB bandwidth: CH Low: 20.83MHz, CH High: 20.71MHz
4. Frequency Range: 5734.5850MHz, 5835.3550MHz



IEEE 802.11n HT 40 MHz mode / 5510 ~ 5670MHz

Antenna 0:

1. Operating Frequency: 5510-5670MHz
2. CH Low: 5510MHz, CH High: 5670MHz
3. 26dB bandwidth: CH Low: 39.28MHz, CH High: 39.53MHz
4. Frequency Range: 5490.3600MHz, 5689.7650MHz

Antenna 1:

1. Operating Frequency: 5510-5670MHz
2. CH Low: 5510MHz, CH High: 5670MHz
3. 26dB bandwidth: CH Low: 39.93MHz, CH High: 39.78MHz
4. Frequency Range: 5490.0350MHz, 5689.8900MHz

Antenna 2:

1. Operating Frequency: 5510-5670MHz
2. CH Low: 5510MHz, CH High: 5670MHz
3. 26dB bandwidth: CH Low: 39.86MHz, CH High: 39.79MHz
4. Frequency Range: 5490.0700MHz, 5689.8950MHz

IEEE 802.11n HT 40 MHz mode / 5755 ~ 5795MHz

Antenna 0:

1. Operating Frequency: 5755-5795MHz
2. CH Low: 5755MHz, CH High: 5795MHz
3. 26dB bandwidth: CH Low: 40.04MHz, CH High: 39.69MHz
4. Frequency Range: 5734.9800MHz, 5814.8450MHz

Antenna 1:

1. Operating Frequency: 5755-5795MHz
2. CH Low: 5755MHz, CH High: 5795MHz
3. 26dB bandwidth: CH Low: 39.69MHz, CH High: 39.69MHz
4. Frequency Range: 5735.1550MHz, 5814.8450MHz

Antenna 2:

1. Operating Frequency: 5755-5795MHz
2. CH Low: 5755MHz, CH High: 5795MHz
3. 26dB bandwidth: CH Low: 40.11MHz, CH High: 39.66MHz
4. Frequency Range: 5734.9450MHz, 5814.8300MHz



IEEE 802.11ac 80 mode / 5530MHz

Antenna 0:

1. Operating Frequency: 5530MHz
2. CH: 5530MHz
3. 26dB bandwidth: CH: 81.18MHz
4. Frequency Range: 5489.4100MHz, 5570.5900MHz

Antenna 1:

1. Operating Frequency: 5530MHz
2. CH: 5530MHz
3. 26dB bandwidth: CH: 81.14MHz
4. Frequency Range: 5489.4300MHz, 5570.5700MHz

Antenna 2:

1. Operating Frequency: 5530MHz
2. CH: 5530MHz
3. 26dB bandwidth: CH: 81.21MHz
4. Frequency Range: 5489.3950MHz, 5570.6050MHz

IEEE 802.11ac 80 mode / 5775MHz

Antenna 0:

1. Operating Frequency: 5775MHz
2. CH: 5775MHz
3. 26dB bandwidth: CH: 81.15MHz
4. Frequency Range: 5734.4250MHz, 5815.5750MHz

Antenna 1:

1. Operating Frequency: 5775MHz
2. CH: 5775MHz
3. 26dB bandwidth: CH: 81.05MHz
4. Frequency Range: 5734.4750MHz, 5815.5250MHz

Antenna 2:

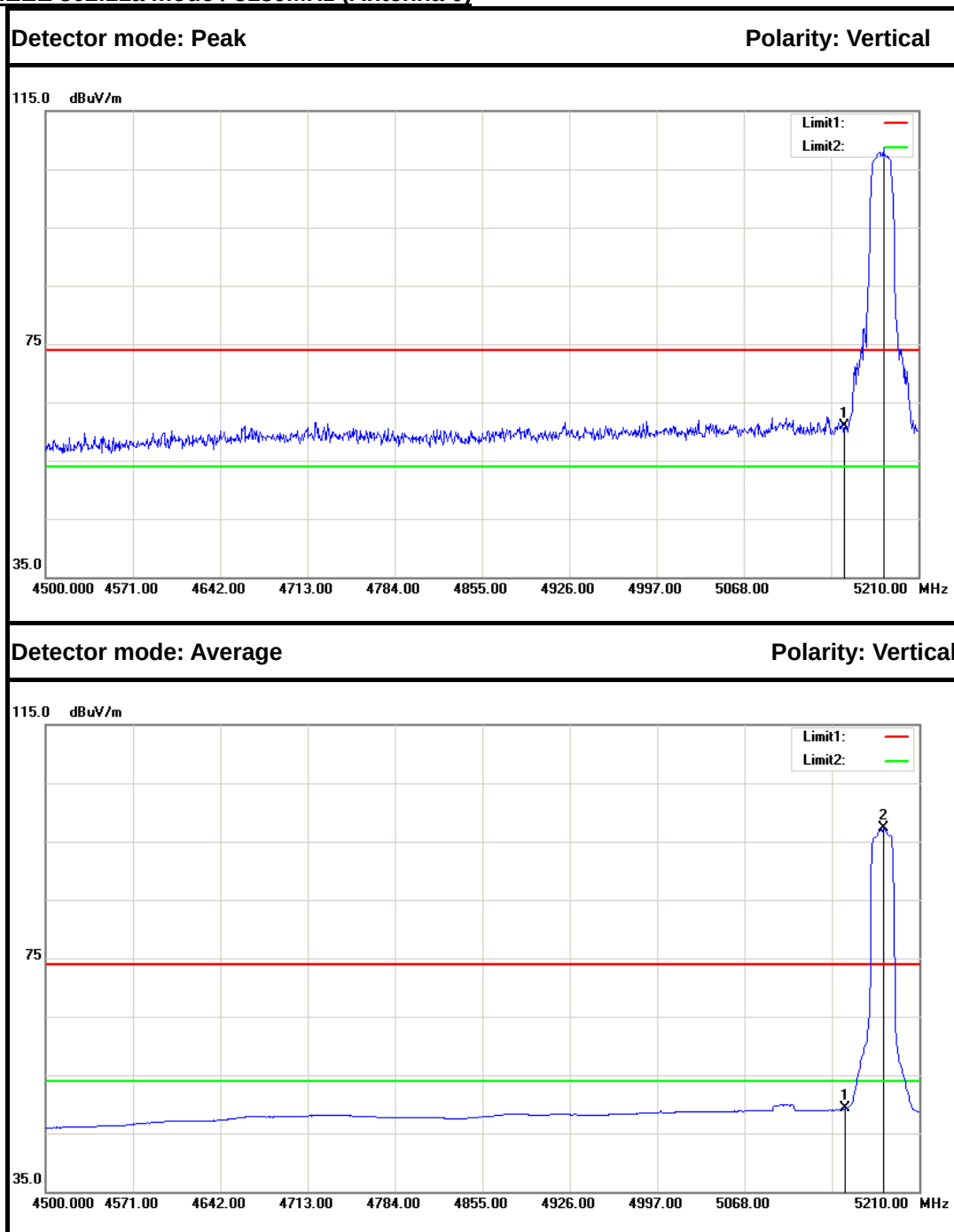
1. Operating Frequency: 5775MHz
2. CH: 5775MHz
3. 26dB bandwidth: CH: 81.02MHz
4. Frequency Range: 5734.4900MHz, 5815.5100MHz

Because the mentioned conditions the Fundamental Frequency Range was far away from the restricted bands in the table published in 15.205, the test is not applicable.

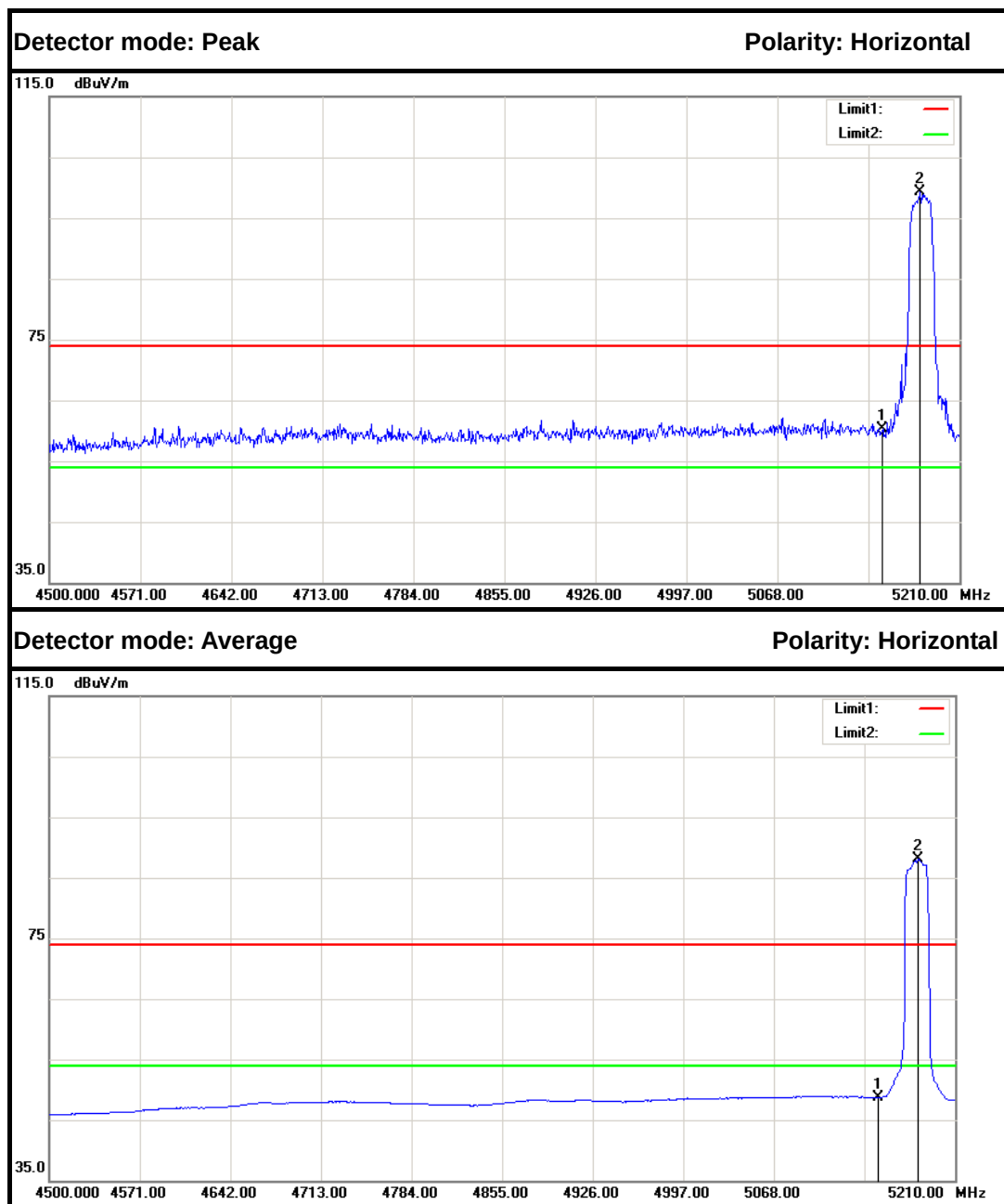


Test Plot

IEEE 802.11a mode / 5180MHz (Antenna 0)



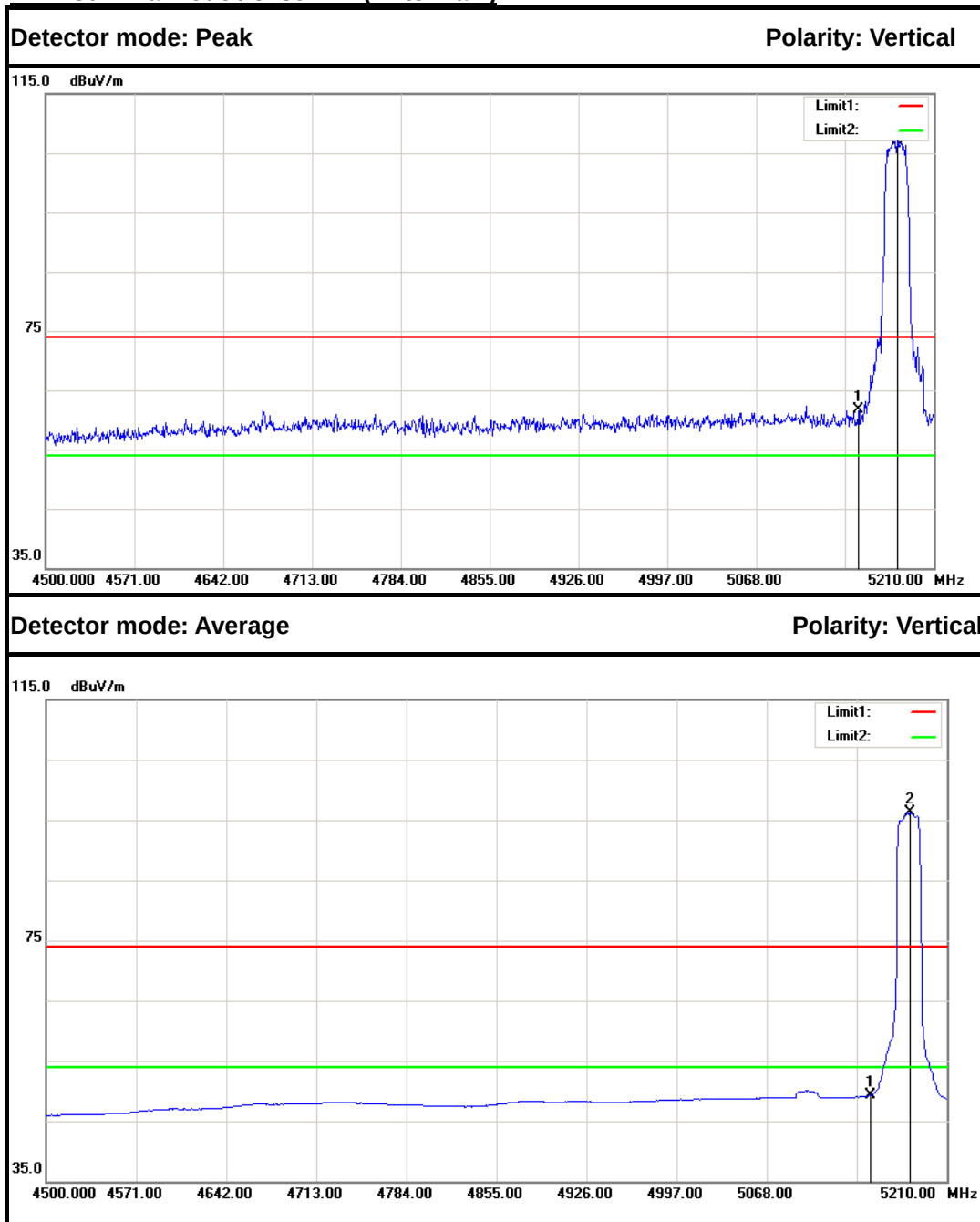
No.	Frequency (MHz)	Reading (dB)	Factor (dB/m)	Result (dB/m)	Limit (dB/m)	Margin (dB)	Remark	Antenna Polar
1	5150.000	55.72	5.25	60.97	74.00	-13.03	Peak	Vertical
2	5181.600	103.38	5.30	108.68	---	---	Peak	Vertical
1	5150.000	44.00	5.25	49.25	54.00	-4.75	Average	Vertical
2	5180.890	91.94	5.30	97.24	---	---	Average	Vertical



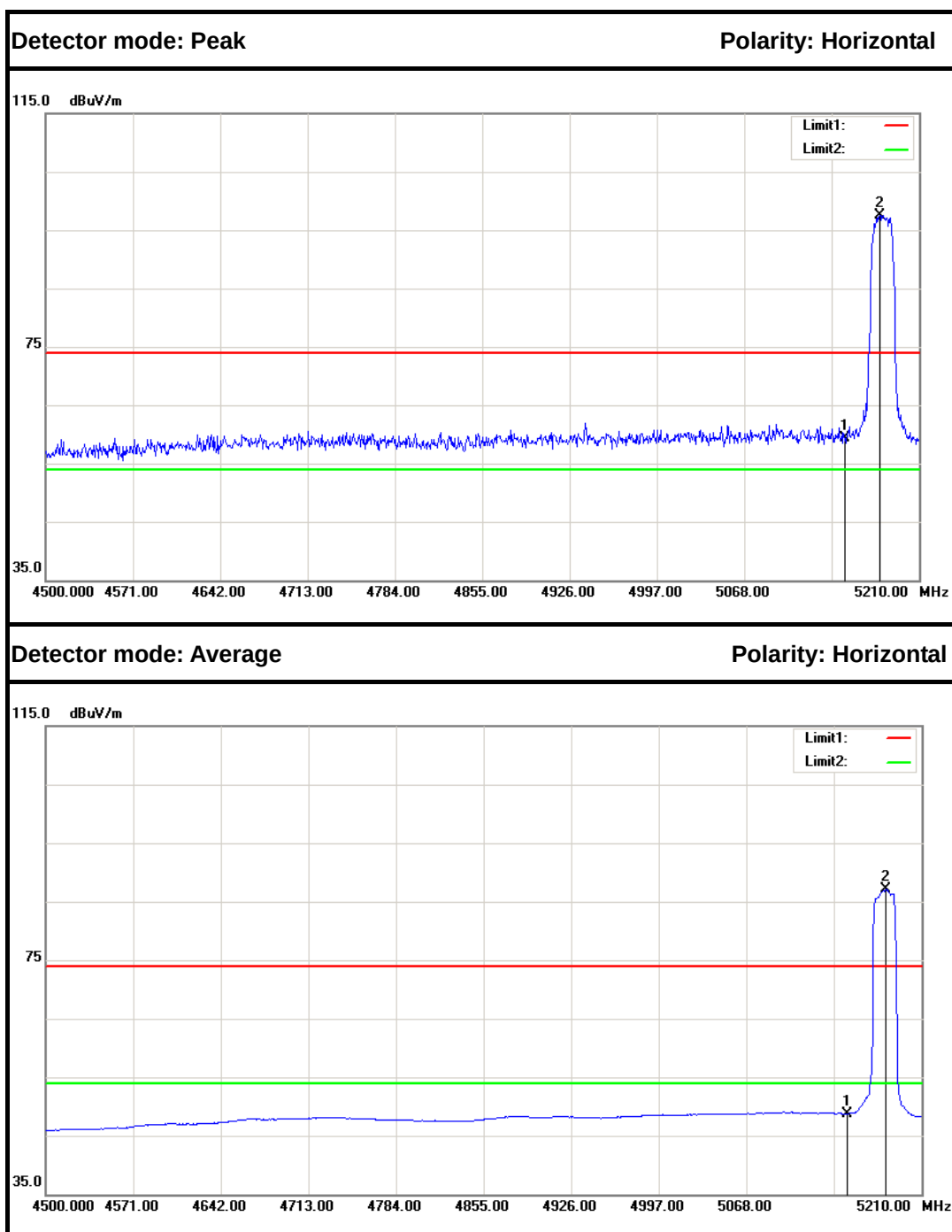
No.	Frequency (MHz)	Reading (dB)	Factor (dB/m)	Result (dB/m)	Limit (dB/m)	Margin (dB)	Remark	Antenna Polar
1.	5150.000	55.06	5.25	60.31	74.00	-13.69	Peak	Horizontal
2.	5179.470	93.98	5.30	99.28	---	---	Peak	Horizontal
1	5150.000	43.52	5.25	48.77	54.00	-5.23	Average	Horizontal
2	5180.890	82.86	5.30	88.16	---	---	Average	Horizontal



IEEE 802.11a mode / 5180MHz (Antenna 1)



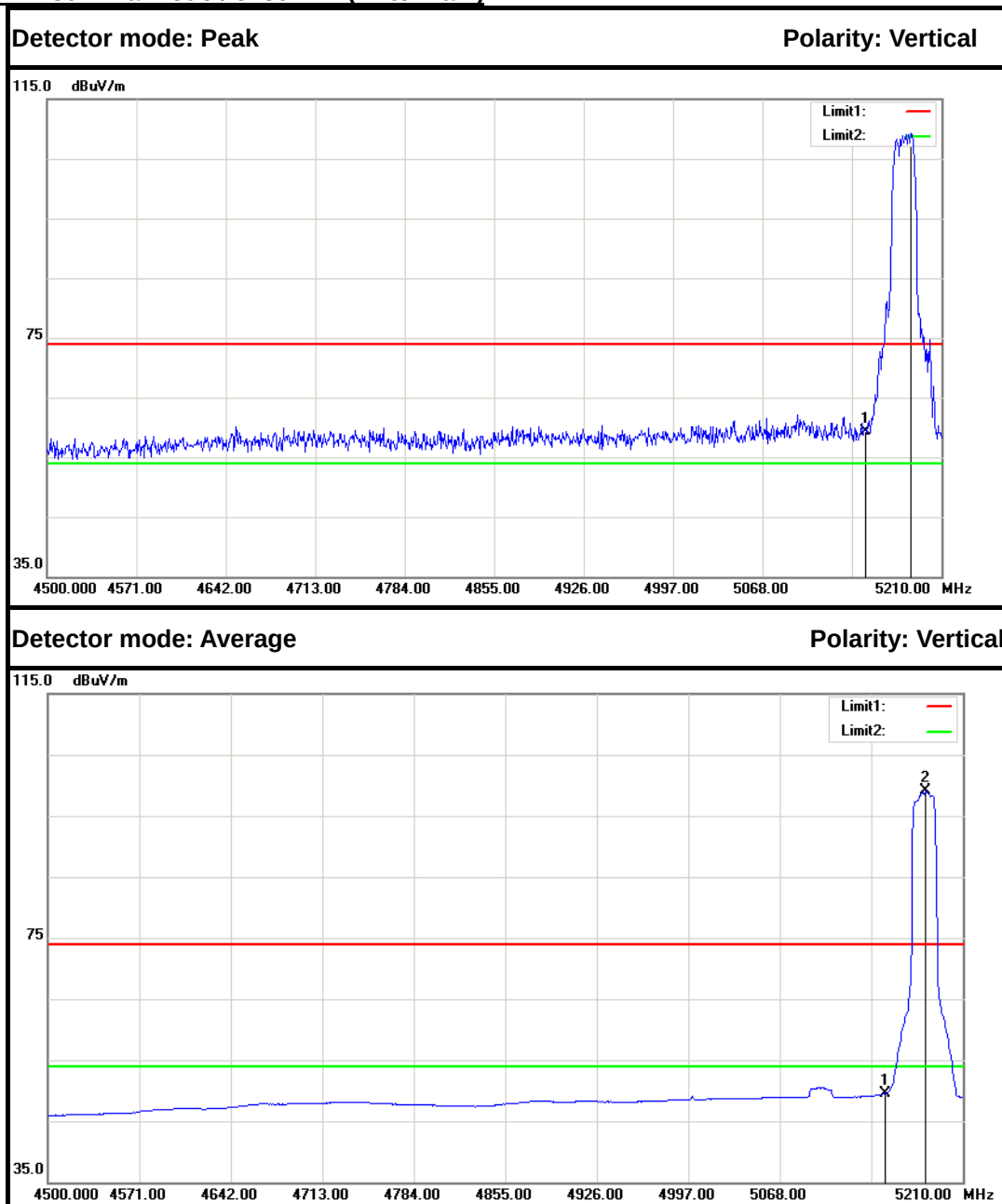
No.	Frequency (MHz)	Reading (dB)	Factor (dB/m)	Result (dB/m)	Limit (dB/m)	Margin (dB)	Remark	Antenna Polar
1	5150.000	56.44	5.25	61.69	74.00	-12.31	Peak	Vertical
2	5180.890	101.79	5.30	107.09	---	---	Peak	Vertical
1	5150.000	44.08	5.25	49.33	54.00	-4.67	Average	Vertical
2	5180.890	91.10	5.30	96.40	---	---	Average	Vertical



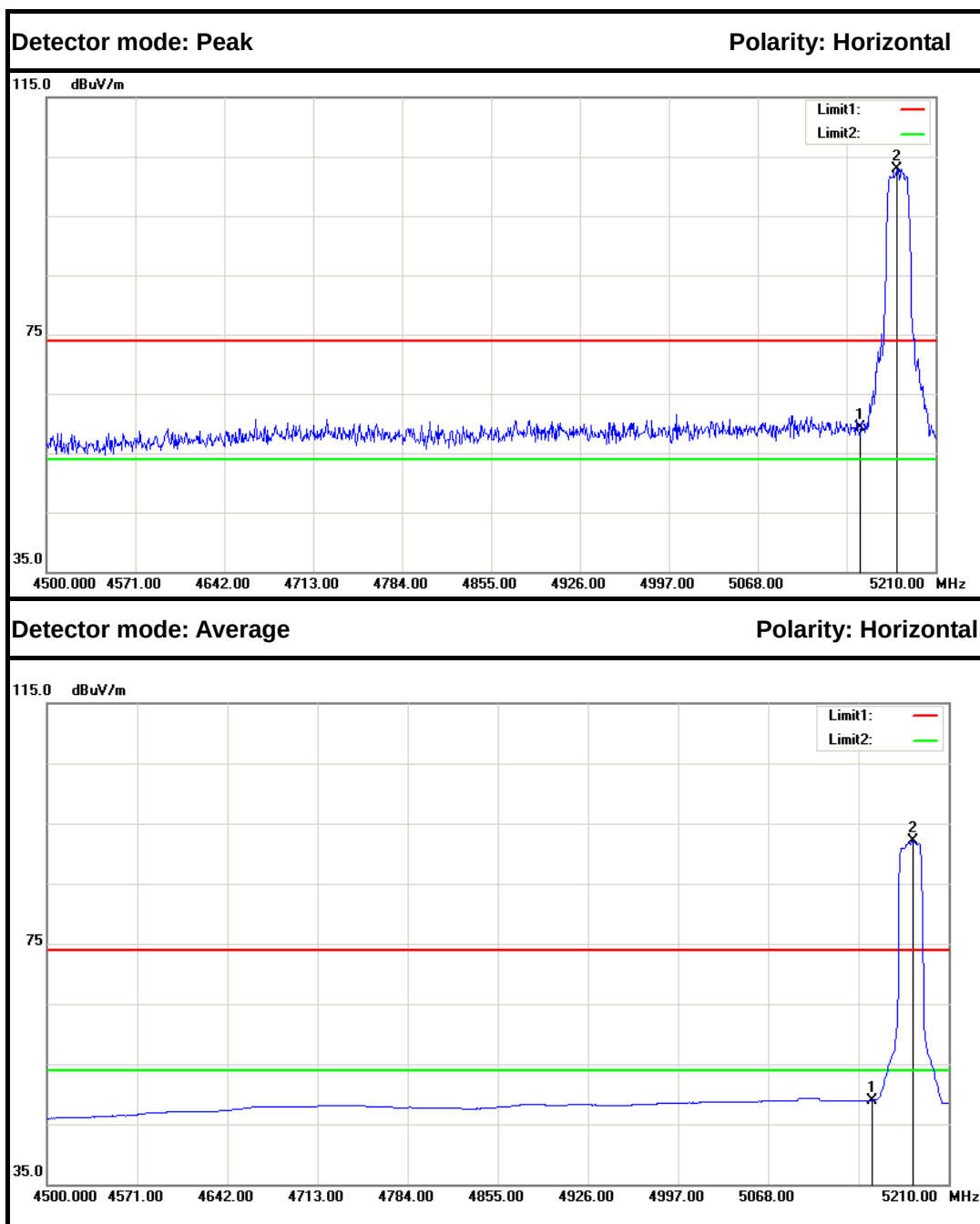
No.	Frequency (MHz)	Reading (dB)	Factor (dB/m)	Result (dB/m)	Limit (dB/m)	Margin (dB)	Remark	Antenna Polar
1	5150.000	54.11	5.25	59.36	74.00	-14.64	Peak	Horizontal
2	5178.050	92.24	5.30	97.54	---	---	Peak	Horizontal
1	5150.000	43.53	5.25	48.78	54.00	-5.22	Average	Horizontal
2	5180.890	81.90	5.30	87.20	---	---	Average	Horizontal



IEEE 802.11a mode / 5180MHz (Antenna 2)



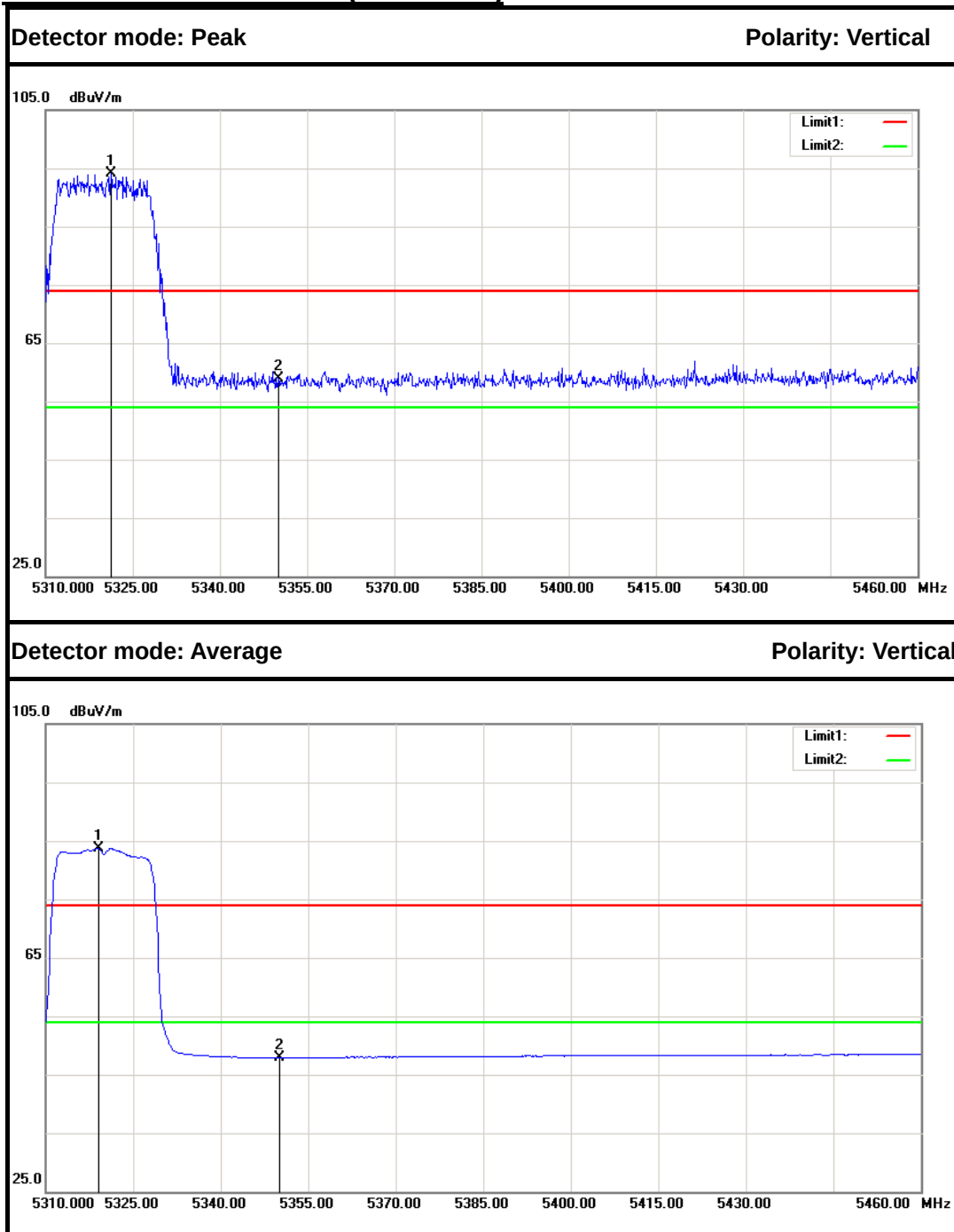
No.	Frequency (MHz)	Reading (dB)	Factor (dB/m)	Result (dB/m)	Limit (dB/m)	Margin (dB)	Remark	Antenna Polar
1.	5150.000	54.03	5.25	59.28	74.00	-14.72	Peak	Vertical
2.	5185.860	103.93	5.31	109.24	---	---	Peak	Vertical
1.	5150.000	44.33	5.25	49.58	54.00	-4.42	Average	Vertical
2.	5180.890	93.81	5.30	99.11	---	---	Average	Vertical



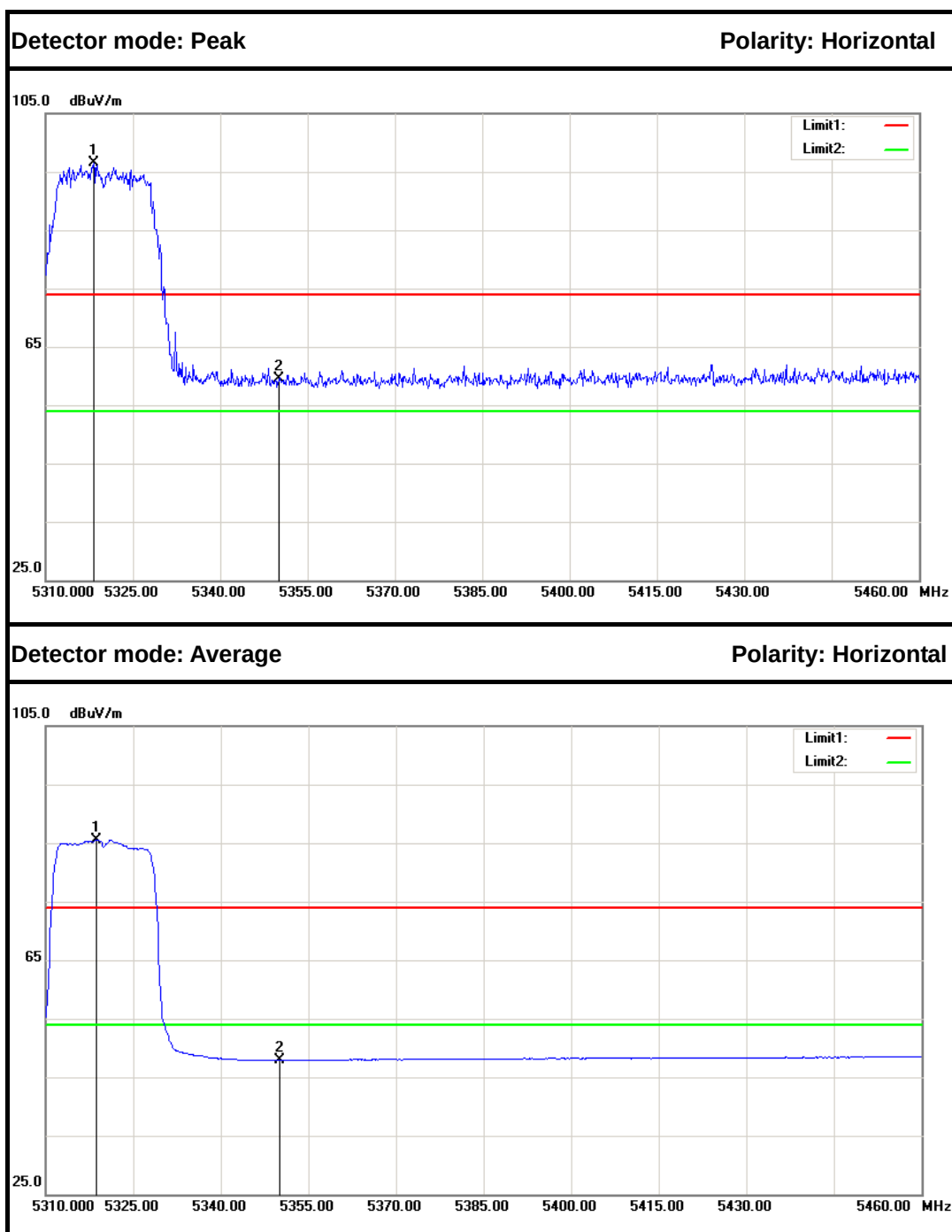
No.	Frequency (MHz)	Reading (dB)	Factor (dB/m)	Result (dB/m)	Limit (dB/m)	Margin (dB)	Remark	Antenna Polar
1	5150.000	54.07	5.25	59.32	74.00	-14.68	Peak	Horizontal
2	5179.470	97.62	5.30	102.92	---	---	Peak	Horizontal
1	5150.000	43.74	5.25	48.99	54.00	-5.01	Average	Horizontal
2	5181.600	86.82	5.30	92.12	---	---	Average	Horizontal



IEEE 802.11a mode / 5320(Antenna 0)



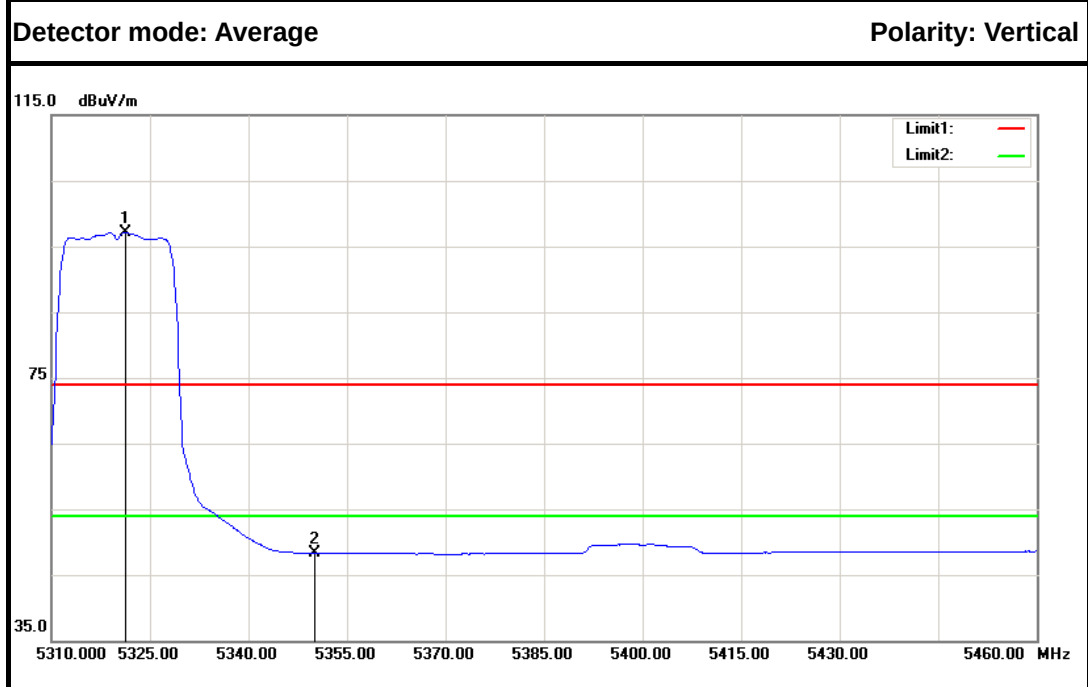
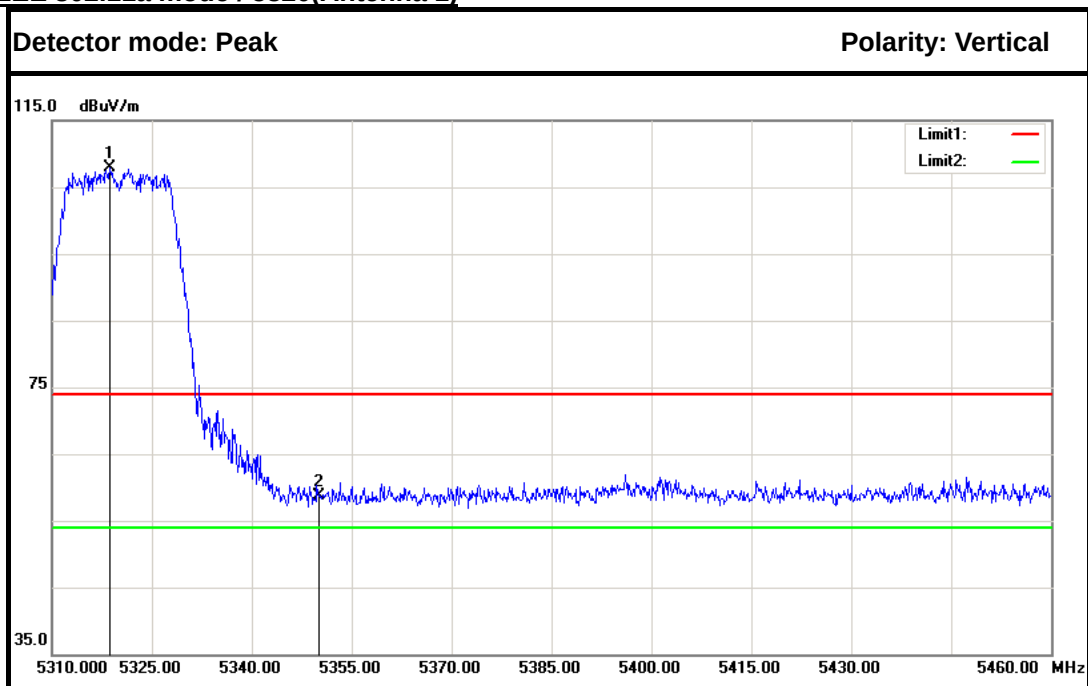
No.	Frequency (MHz)	Reading (dB)	Factor (dB/m)	Result (dB/m)	Limit (dB/m)	Margin (dB)	Remark	Antenna Polar
1	5321.250	88.48	5.55	94.03	---	---	Peak	Vertical
2	5350.000	53.27	5.60	58.87	74.00	-15.13	Peak	Vertical
1	5319.000	78.12	5.55	83.67	---	---	Average	Vertical
2	5350.000	42.34	5.60	47.94	54.00	-6.06	Average	Vertical



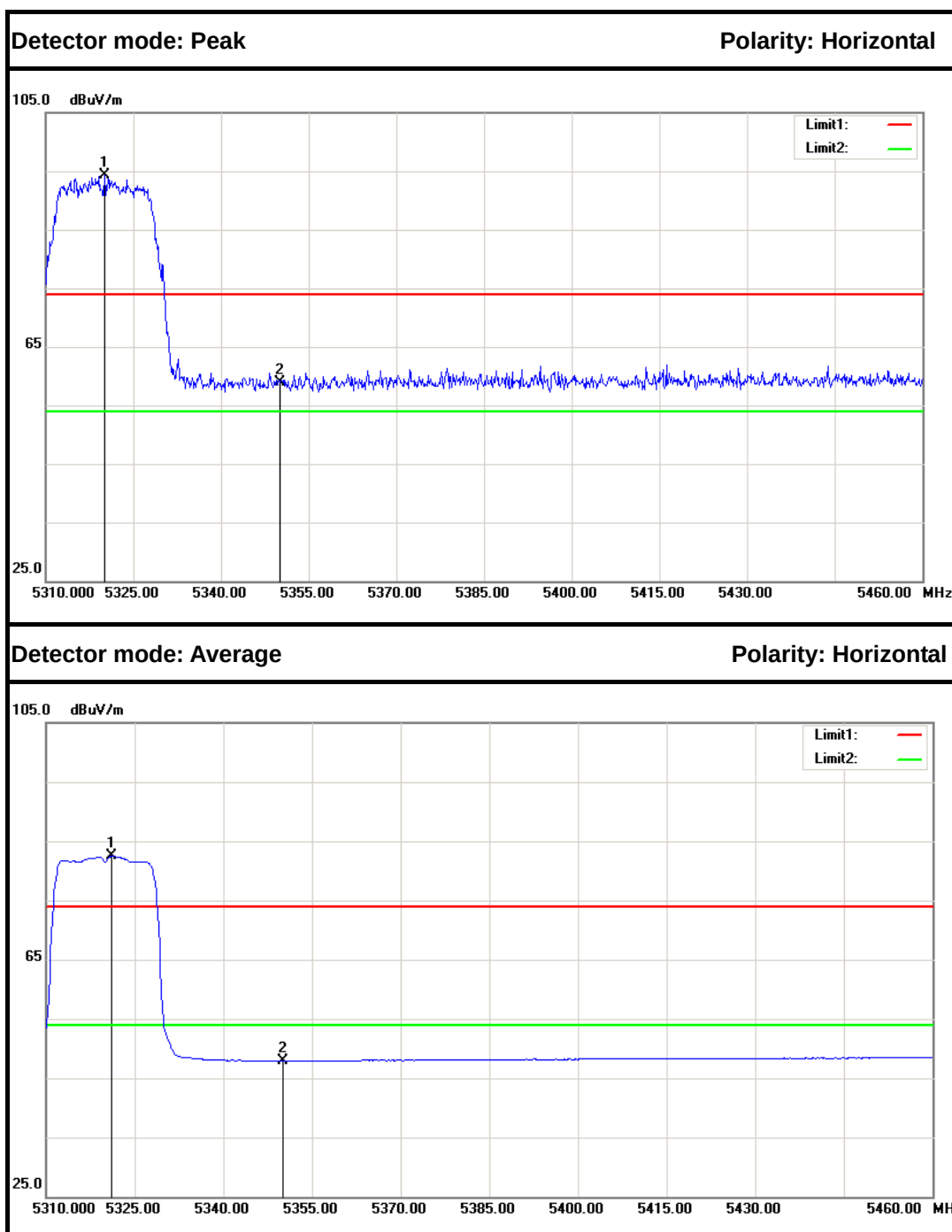
No.	Frequency (MHz)	Reading (dB)	Factor (dB/m)	Result (dB/m)	Limit (dB/m)	Margin (dB)	Remark	Antenna Polar
1	5318.250	90.95	5.55	96.50	---	---	Peak	Horizontal
2	5350.000	53.97	5.60	59.57	74.00	-14.43	Peak	Horizontal
1	5318.700	79.96	5.55	85.51	---	---	Average	Horizontal
2	5350.000	42.33	5.60	47.93	54.00	-6.07	Average	Horizontal



IEEE 802.11a mode / 5320(Antenna 1)



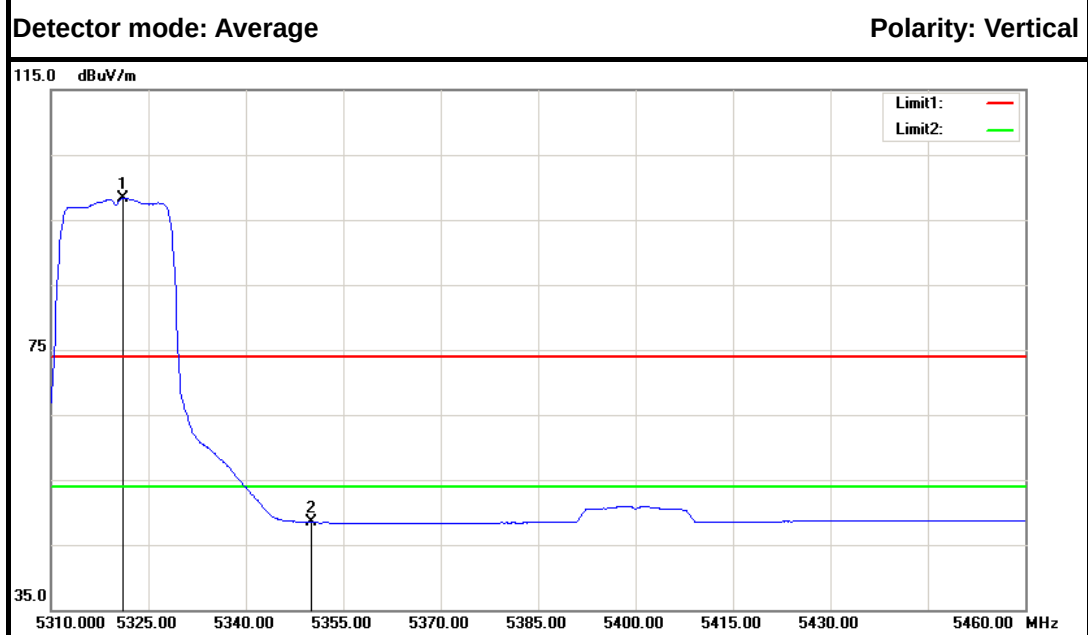
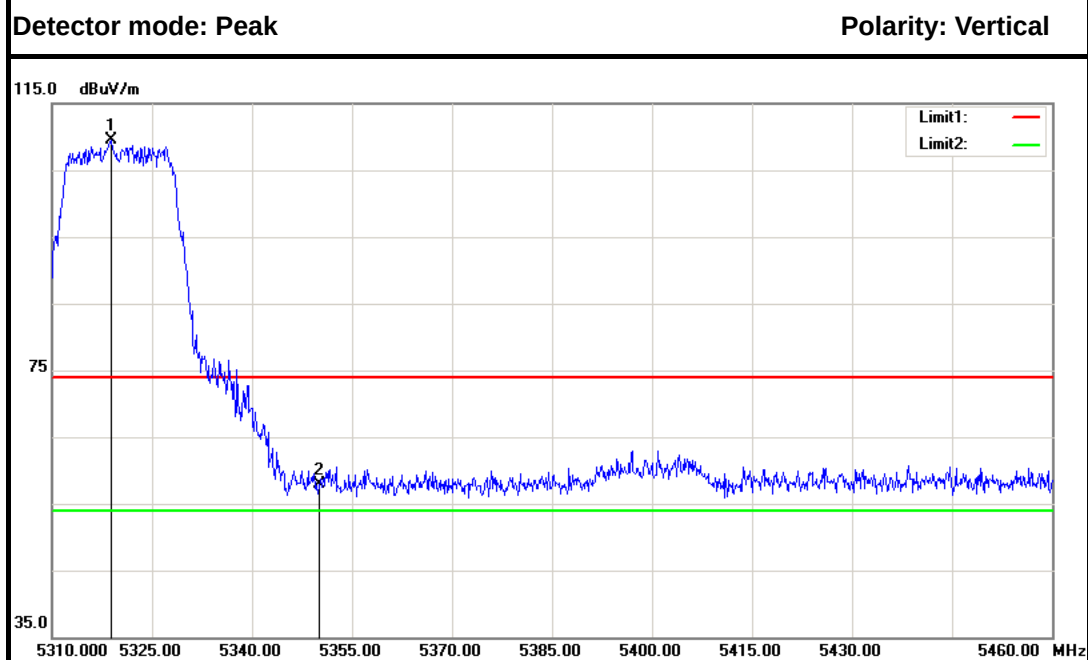
No.	Frequency (MHz)	Reading (dB)	Factor (dB/m)	Result (dB/m)	Limit (dB/m)	Margin (dB)	Remark	Antenna Polar
1	5318.700	102.35	5.55	107.90	---	---	Peak	Vertical
2	5350.000	53.17	5.60	58.77	74.00	-15.23	Peak	Vertical
1	5321.250	91.59	5.55	97.14	---	---	Average	Vertical
2	5350.000	42.70	5.60	48.30	54.00	-5.70	Average	Vertical



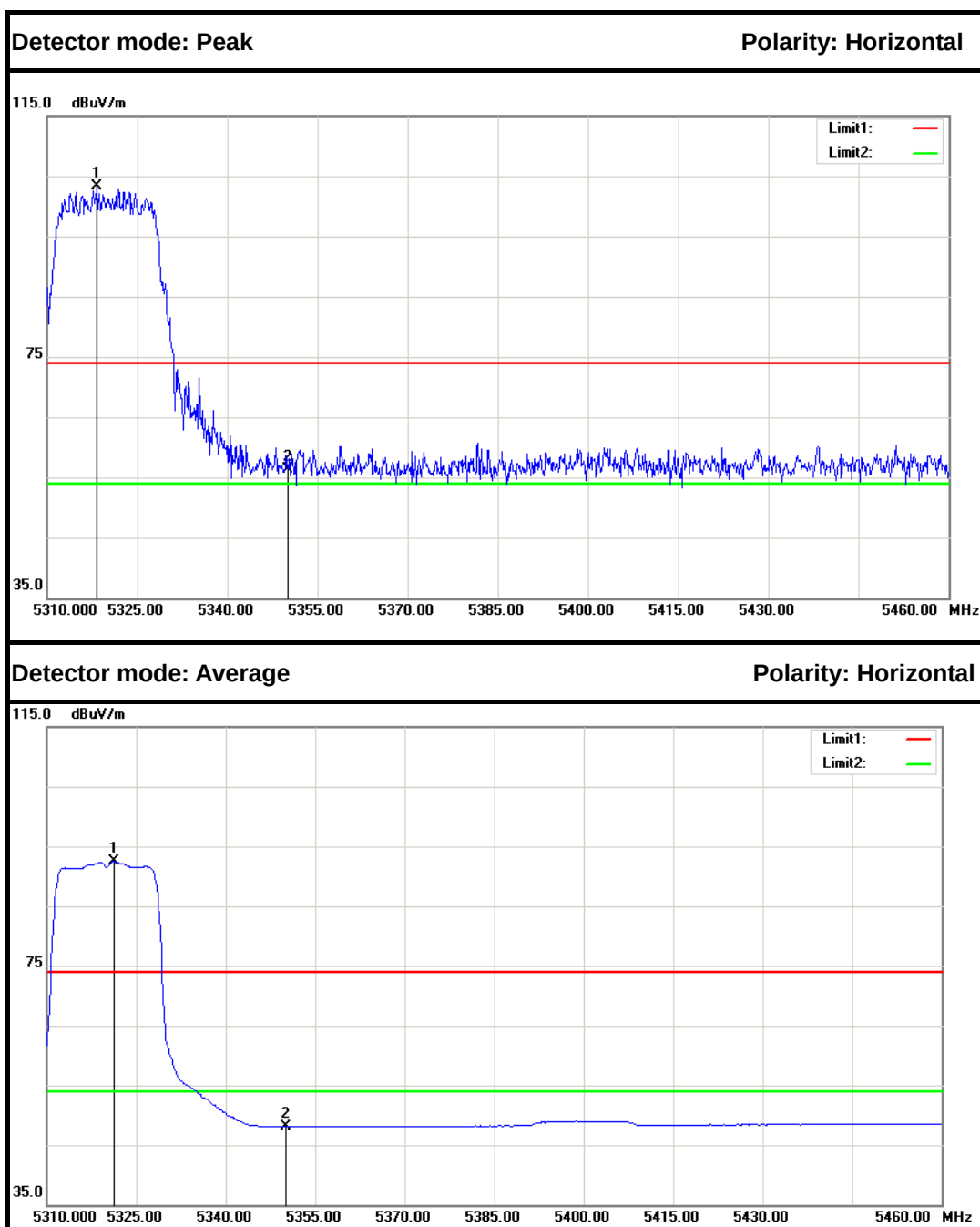
No.	Frequency (MHz)	Reading (dB)	Factor (dB/m)	Result (dB/m)	Limit (dB/m)	Margin (dB)	Remark	Antenna Polar
1.	5320.050	88.71	5.55	94.26	---	---	Peak	Horizontal
2.	5350.000	53.24	5.60	58.84	74.00	-15.16	Peak	Horizontal
1.	5321.100	76.97	5.55	82.52	---	---	Average	Horizontal
2.	5350.000	42.39	5.60	47.99	54.00	-6.01	Average	Horizontal



IEEE 802.11a mode / 5320(Antenna 2)



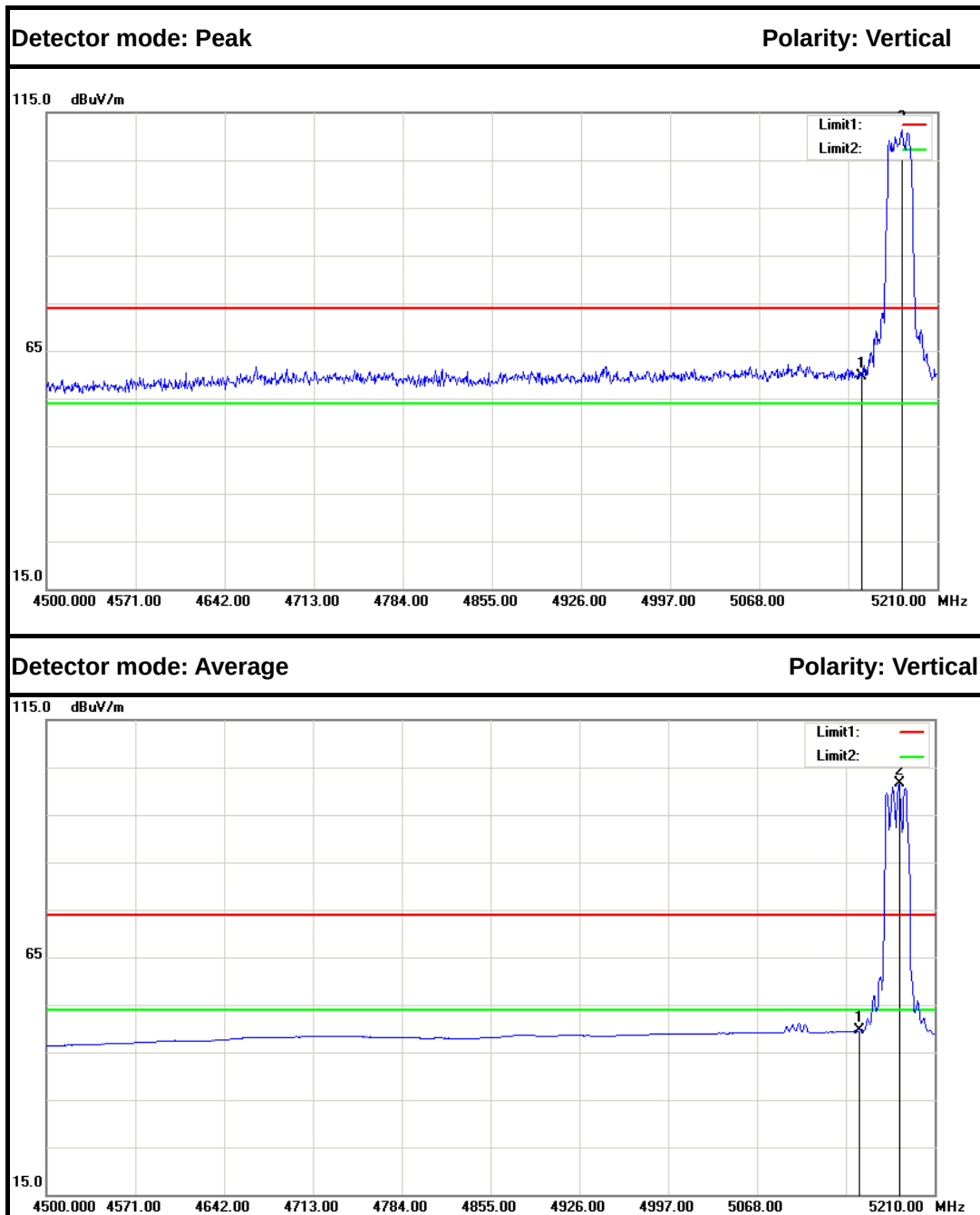
No.	Frequency (MHz)	Reading (dB)	Factor (dB/m)	Result (dB/m)	Limit (dB/m)	Margin (dB)	Remark	Antenna Polar
1	5318.850	103.86	5.55	109.41	---	---	Peak	Vertical
2	5350.000	52.38	5.60	57.98	74.00	-16.02	Peak	Vertical
1	5321.100	92.80	5.55	98.35	---	---	Average	Vertical
2	5350.000	42.83	5.60	48.43	54.00	-5.57	Average	Vertical



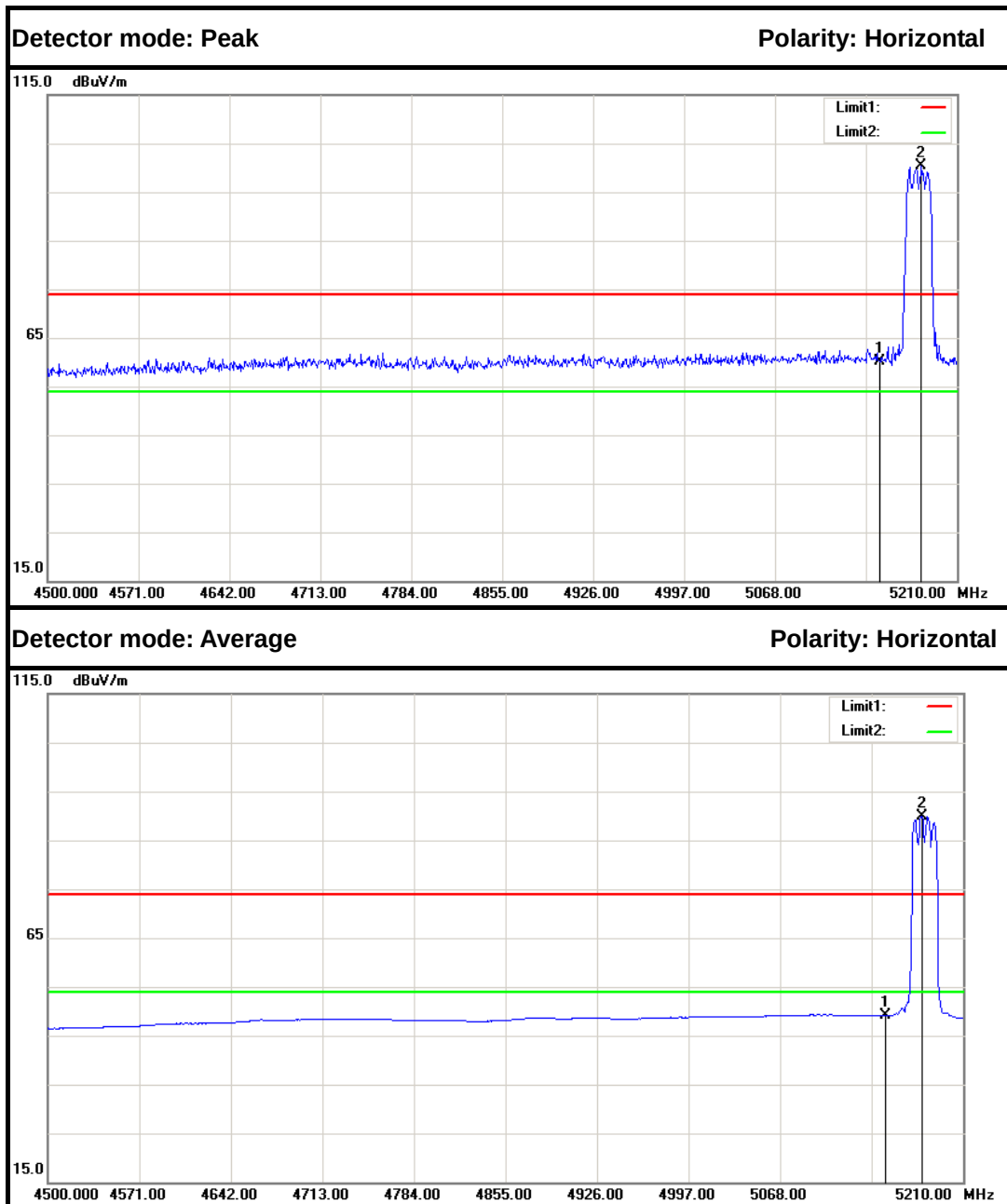
No.	Frequency (MHz)	Reading (dB)	Factor (dB/m)	Result (dB/m)	Limit (dB/m)	Margin (dB)	Remark	Antenna Polar
1.	5318.250	97.66	5.55	103.21	---	---	Peak	Horizontal
2.	5350.000	50.71	5.60	56.31	74.00	-17.69	Peak	Horizontal
1.	5321.250	86.88	5.55	92.43	---	---	Average	Horizontal
2.	5350.000	42.49	5.60	48.09	54.00	-5.91	Average	Horizontal



IEEE 802.11n HT 20 MHz mode / 5180 MHz (Antenna 0+ Antenna 1+ Antenna 2)



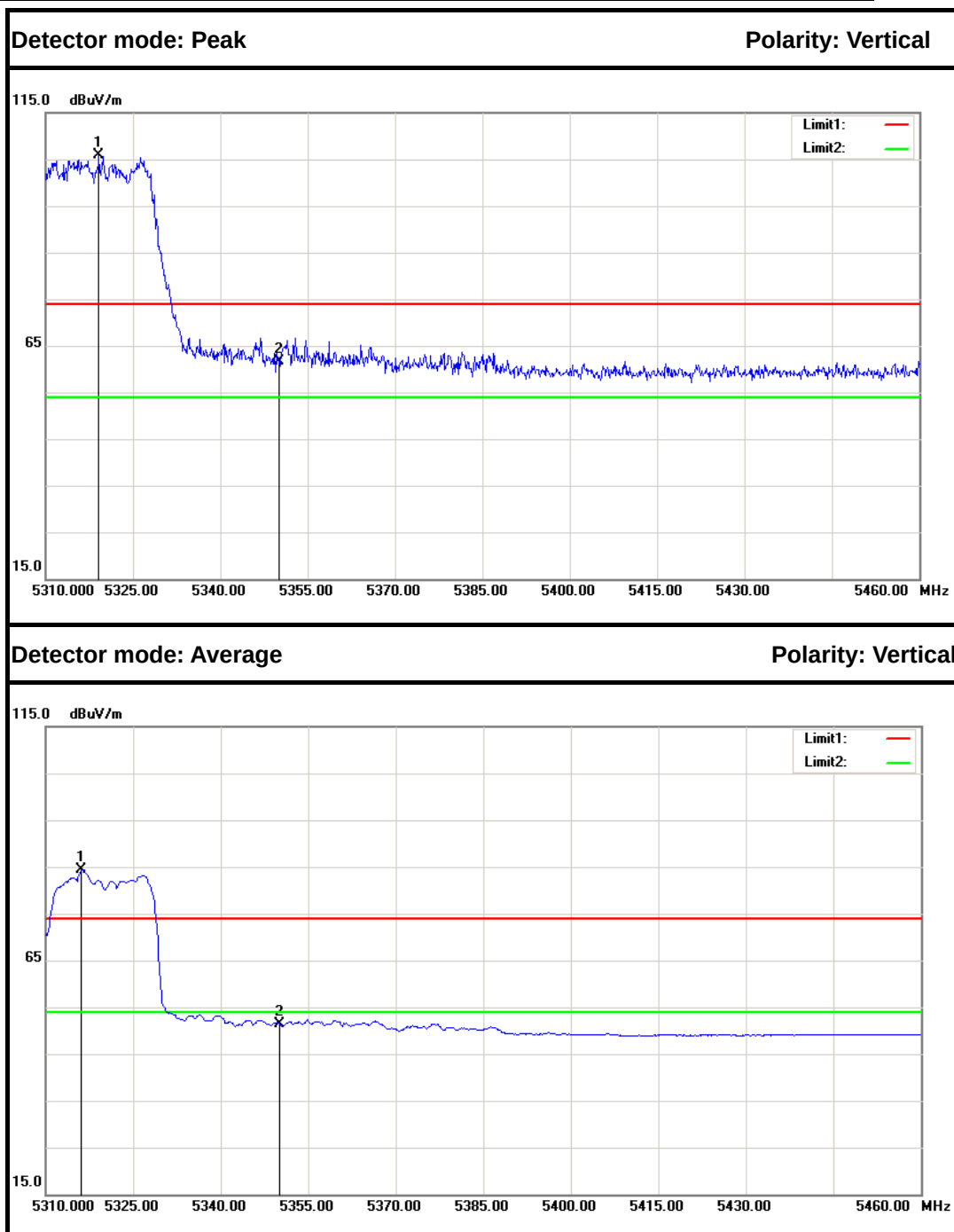
No.	Frequency (MHz)	Reading (dB)	Factor (dB/m)	Result (dB/m)	Limit (dB/m)	Margin (dB)	Remark	Antenna Polar
1	5150.000	54.31	5.25	59.56	74.00	-14.44	Peak	Vertical
2	5182.310	106.13	5.30	111.43	---	---	Peak	Vertical
1	5150.000	44.41	5.25	49.66	54.00	-4.34	Average	Vertical
2	5181.600	96.27	5.30	101.57	---	---	Average	Vertical



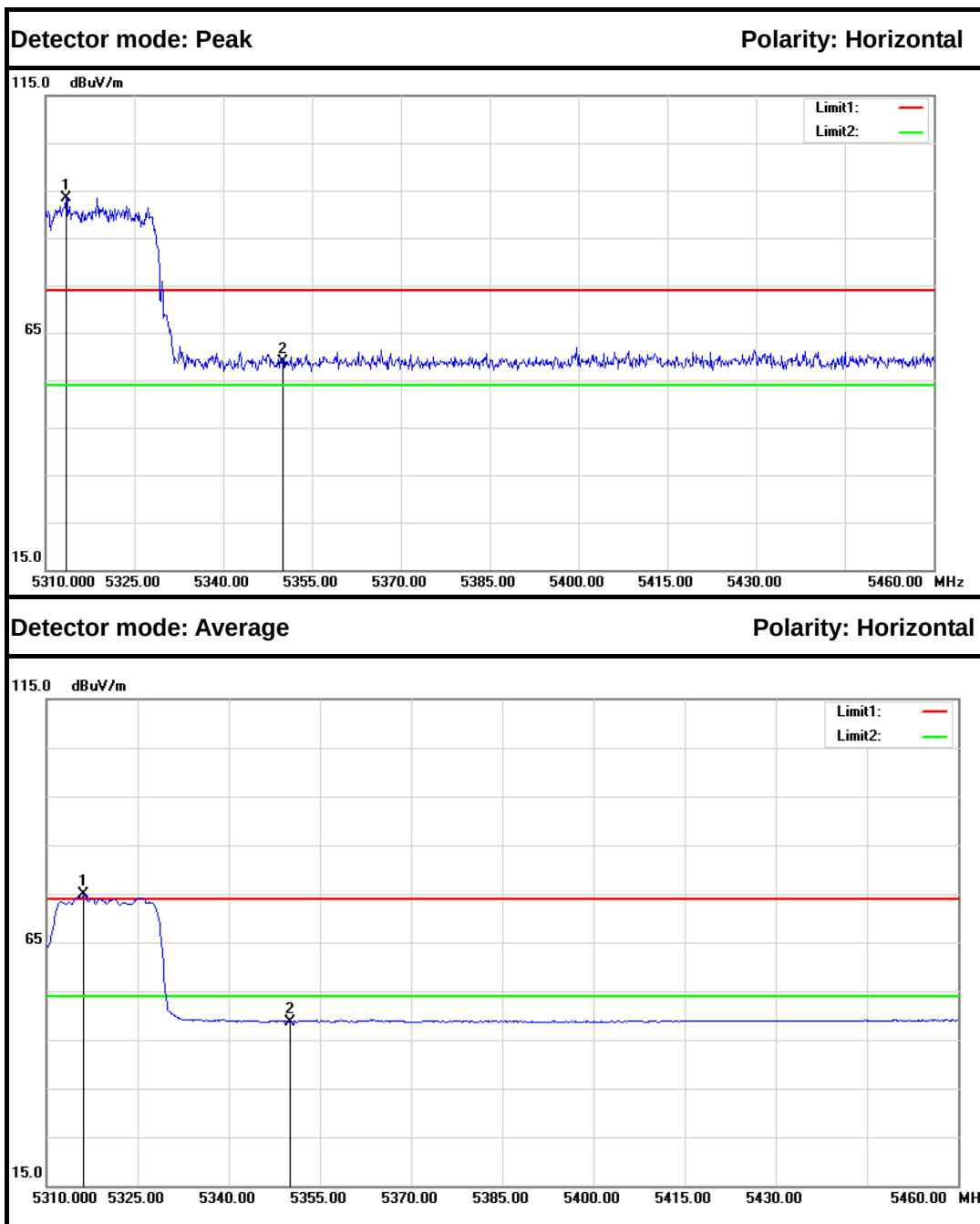
No.	Frequency (MHz)	Reading (dB)	Factor (dB/m)	Result (dB/m)	Limit (dB/m)	Margin (dB)	Remark	Antenna Polar
1	5150.000	54.88	5.25	60.13	74.00	-13.87	Peak	Horizontal
2	5182.310	95.01	5.30	100.31	---	---	Peak	Horizontal
1	5150.000	43.80	5.25	49.05	54.00	-4.95	Average	Horizontal
2	5178.050	84.67	5.30	89.97	---	---	Average	Horizontal



IEEE 802.11n HT 20 MHz mode / 5320 MHz (Antenna 0+ Antenna 1+ Antenna 2)



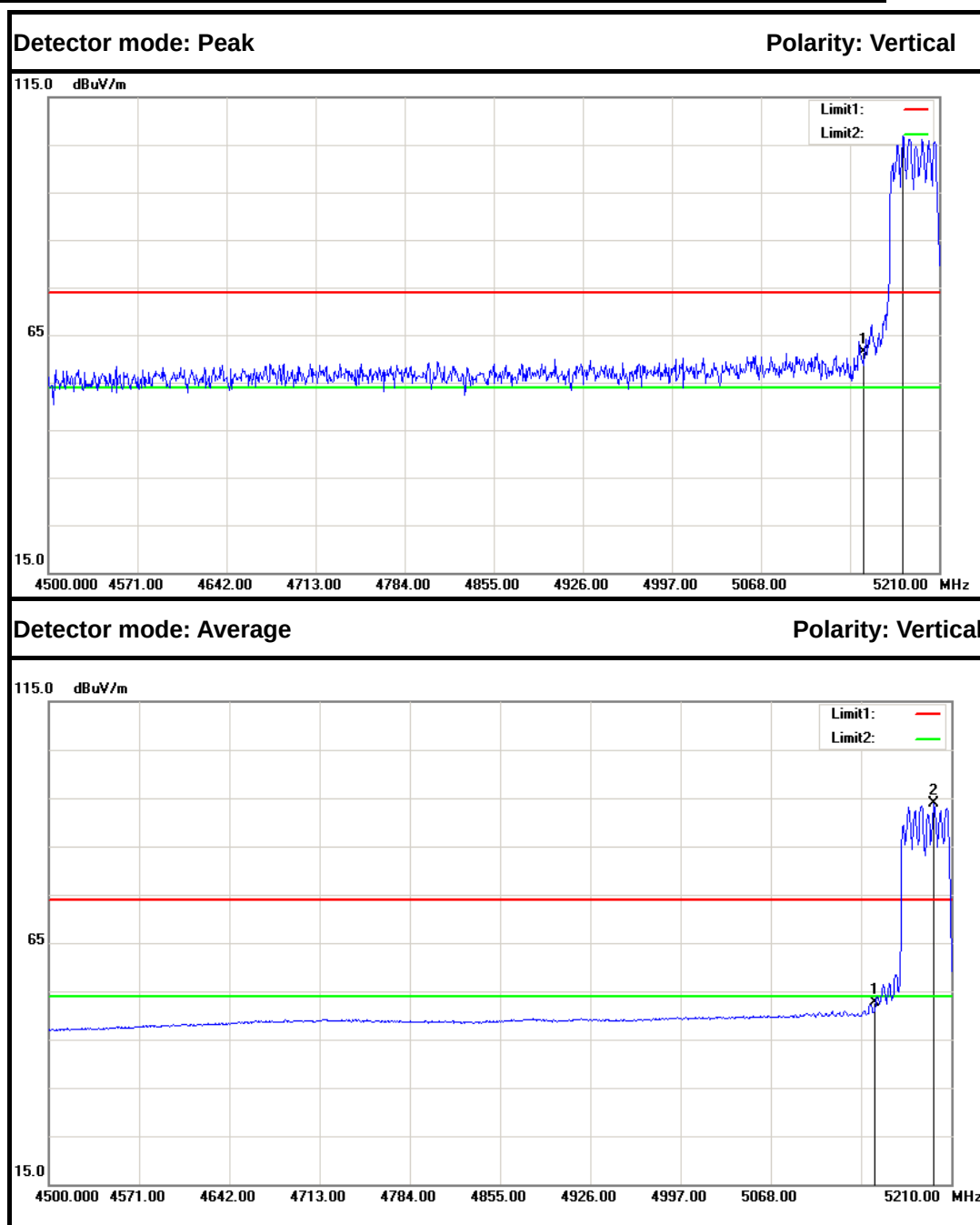
No.	Frequency (MHz)	Reading (dB)	Factor (dB/m)	Result (dB/m)	Limit (dB/m)	Margin (dB)	Remark	Antenna Polar
1	5319.150	100.30	5.55	105.85	---	---	Peak	Vertical
2	5350.000	56.14	5.60	61.74	74.00	-12.26	Peak	Vertical
1	5316.150	78.85	5.54	84.39	---	---	Average	Vertical
2	5350.000	45.90	5.60	51.50	54.00	-2.50	Average	Vertical



No.	Frequency (MHz)	Reading (dB)	Factor (dB/m)	Result (dB/m)	Limit (dB/m)	Margin (dB)	Remark	Antenna Polar
1	5313.450	87.86	5.54	93.40	---	---	Peak	Horizontal
2	5350.000	53.23	5.60	58.83	74.00	-15.17	Peak	Horizontal
1	5316.150	69.24	5.54	74.78	---	---	Average	Horizontal
2	5350.000	43.11	5.60	48.71	54.00	-5.29	Average	Horizontal



IEEE 802.11n HT 40 MHz mode / 5190 MHz (Antenna 0+ Antenna 1+ Antenna 2)



No.	Frequency (MHz)	Reading (dB)	Factor (dB/m)	Result (dB/m)	Limit (dB/m)	Margin (dB)	Remark	Antenna Polar
1	5150.000	56.16	5.25	61.41	74.00	-12.59	Peak	Vertical
2	5180.890	101.53	5.30	106.83	---	---	Peak	Vertical
1	5150.000	47.33	5.25	52.58	54.00	-1.42	Average	Vertical
2	5196.510	88.48	5.33	93.81	---	---	Average	Vertical