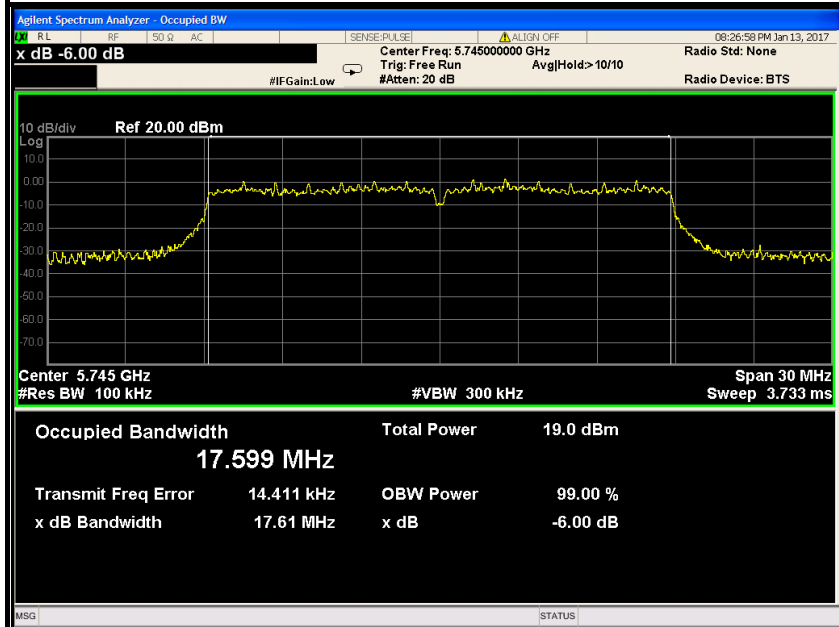


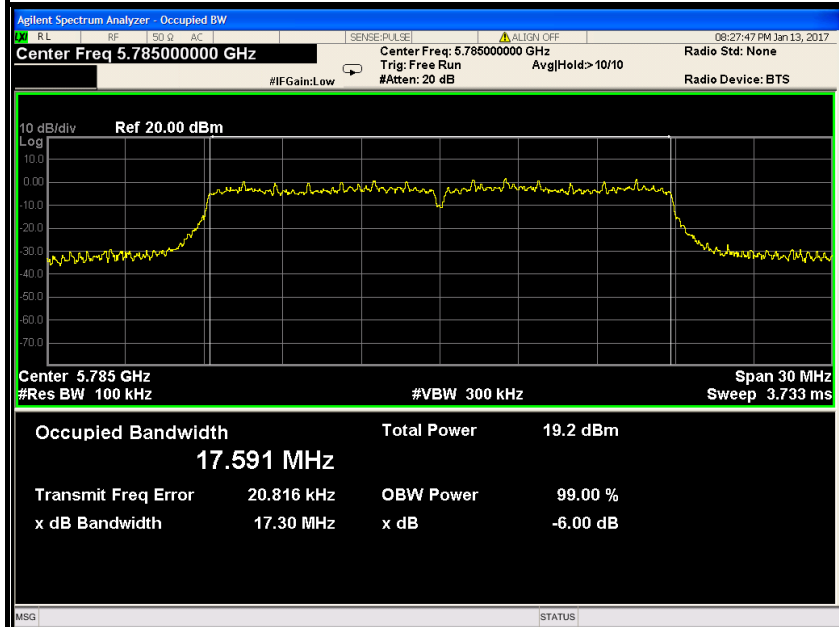


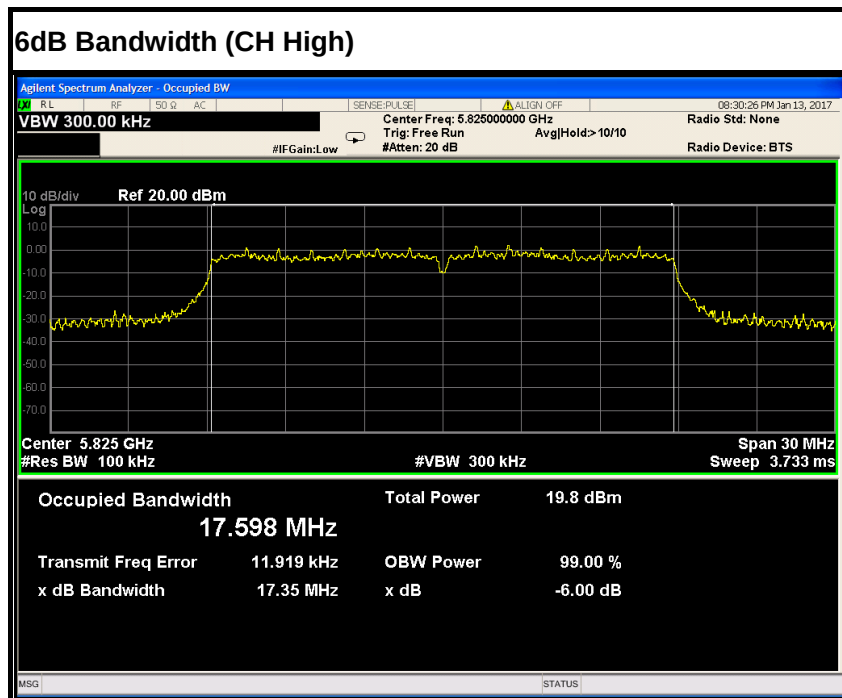
IEEE 802.11ac 20 mode / 5745 ~ 5825MHz

6dB Bandwidth (CH Low)



6dB Bandwidth (CH Mid)

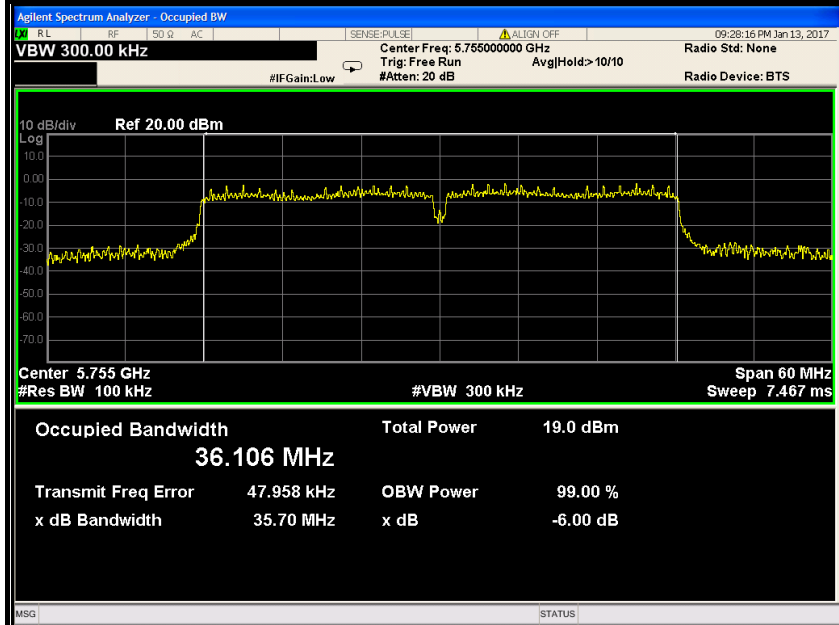




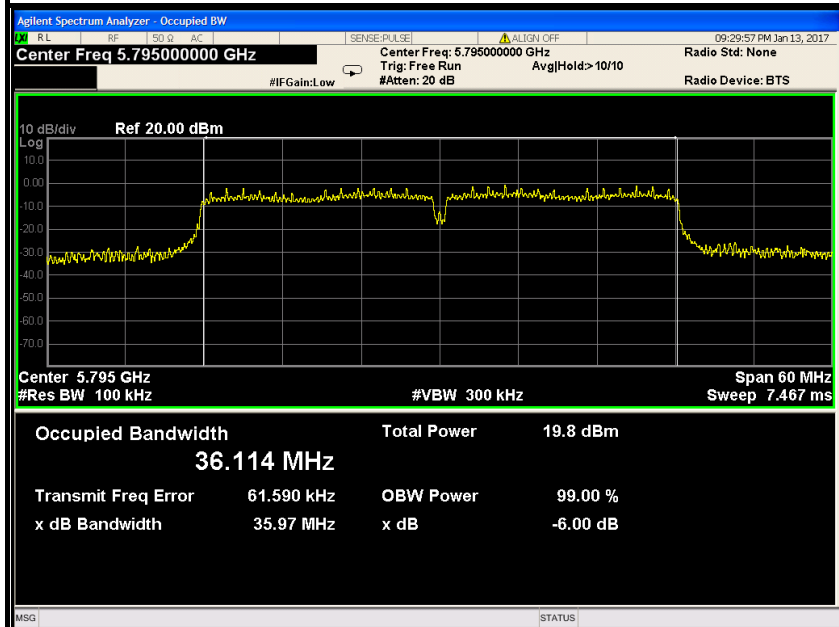


IEEE 802.11ac 40 mode / 5755 ~ 5795MHz

6dB Bandwidth (CH Low)



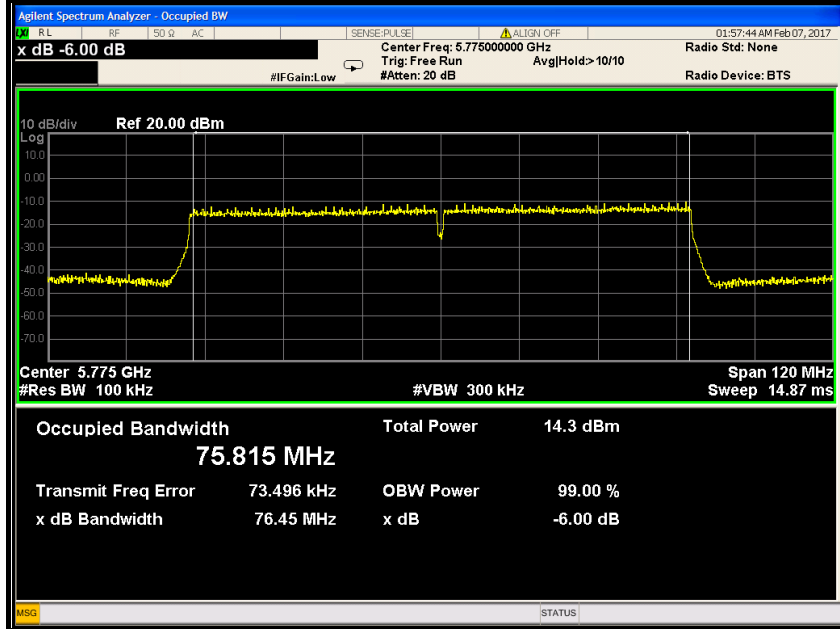
6dB Bandwidth (CH High)





IEEE 802.11ac 80 mode / 5775MHz

6dB Bandwidth

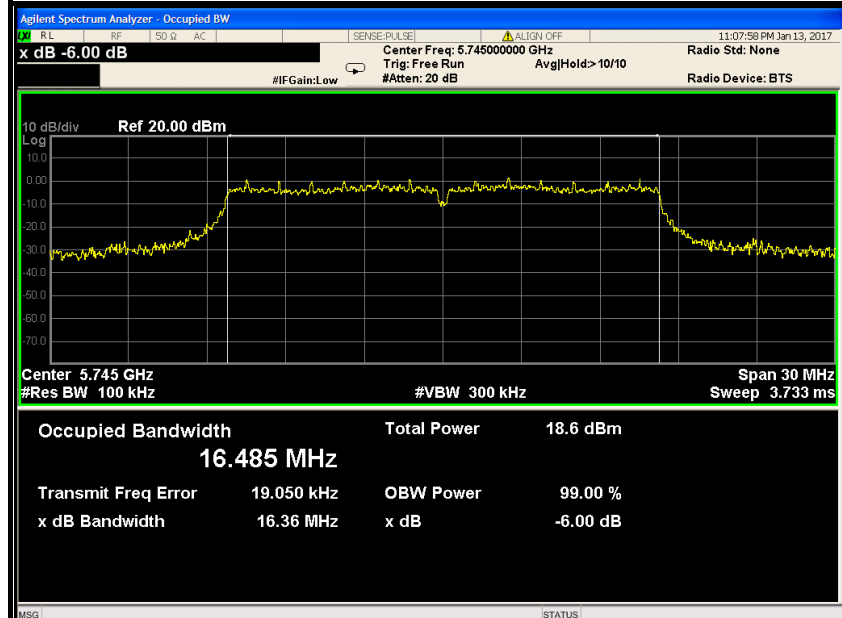




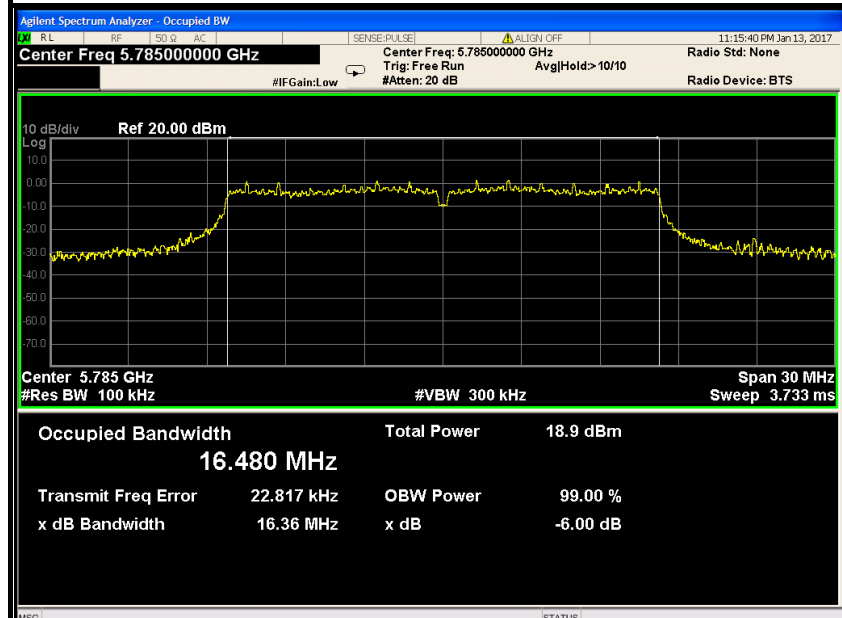
Antenna 2

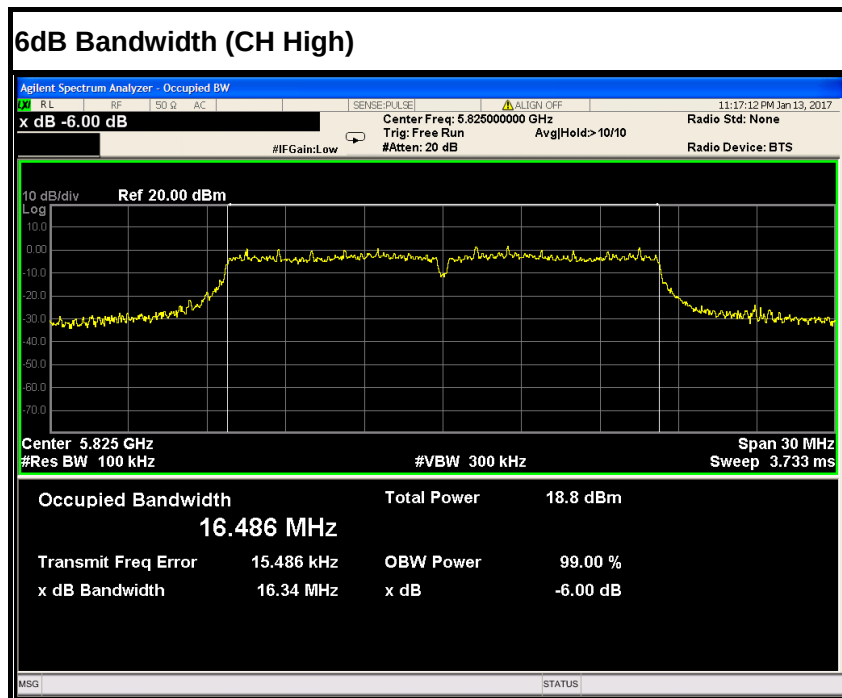
IEEE 802.11a mode / 5745 ~ 5825MHz

6dB Bandwidth (CH Low)



6dB Bandwidth (CH Mid)

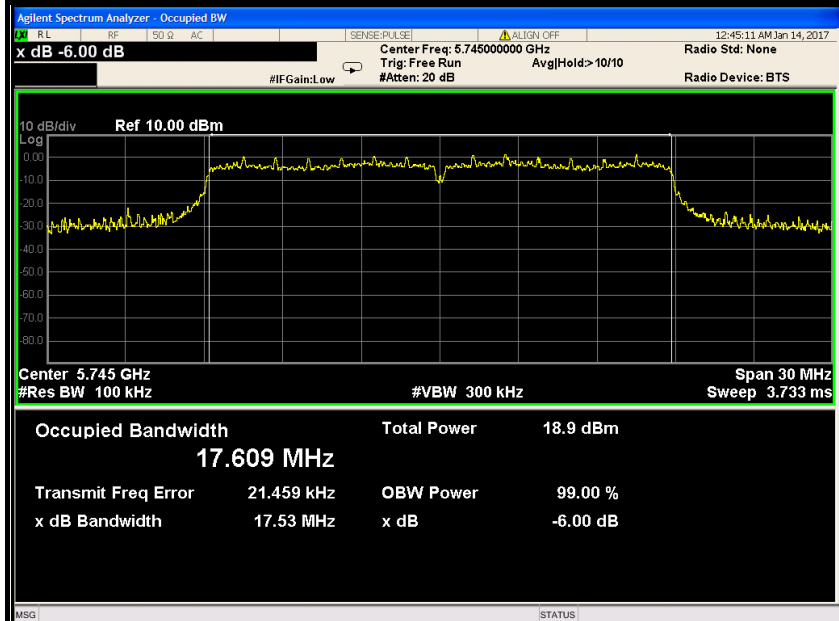




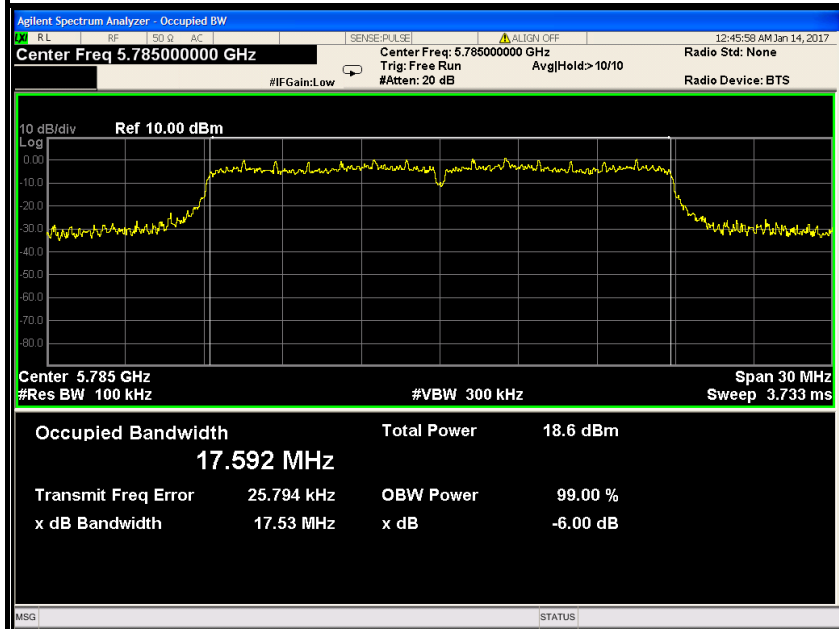


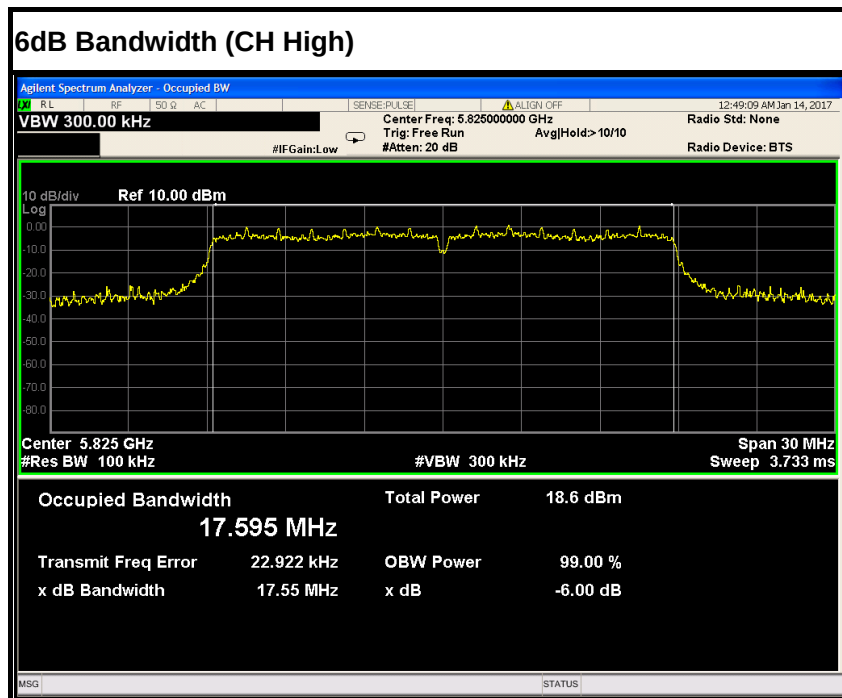
IEEE 802.11n HT 20 MHz mode / 5745 ~ 5825MHz

6dB Bandwidth (CH Low)



6dB Bandwidth (CH Mid)

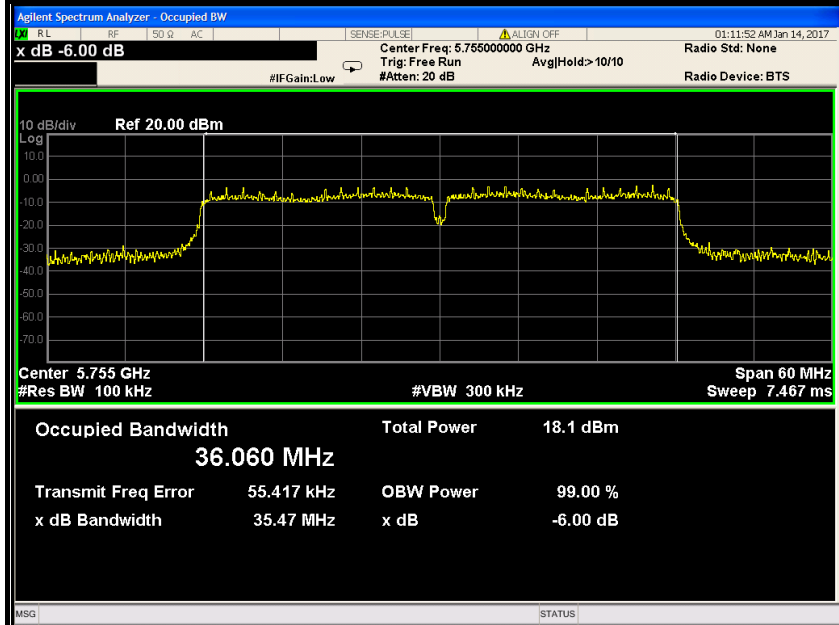




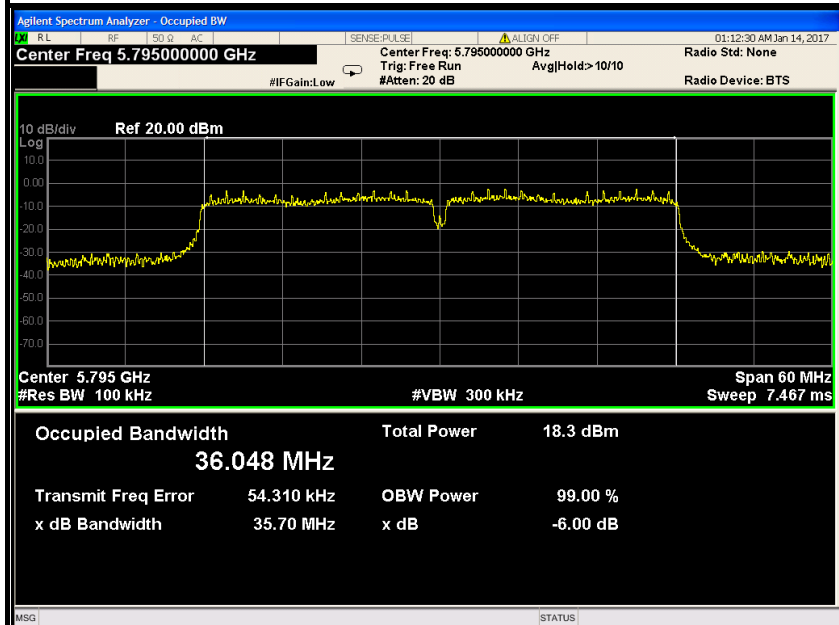


IEEE 802.11n HT 40 MHz mode / 5755 ~ 5795MHz

6dB Bandwidth (CH Low)



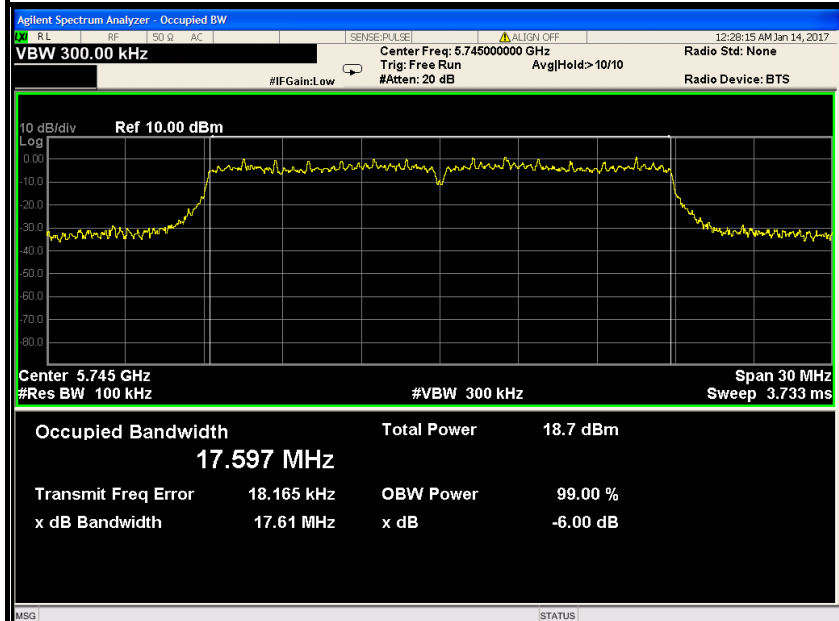
6dB Bandwidth (CH High)



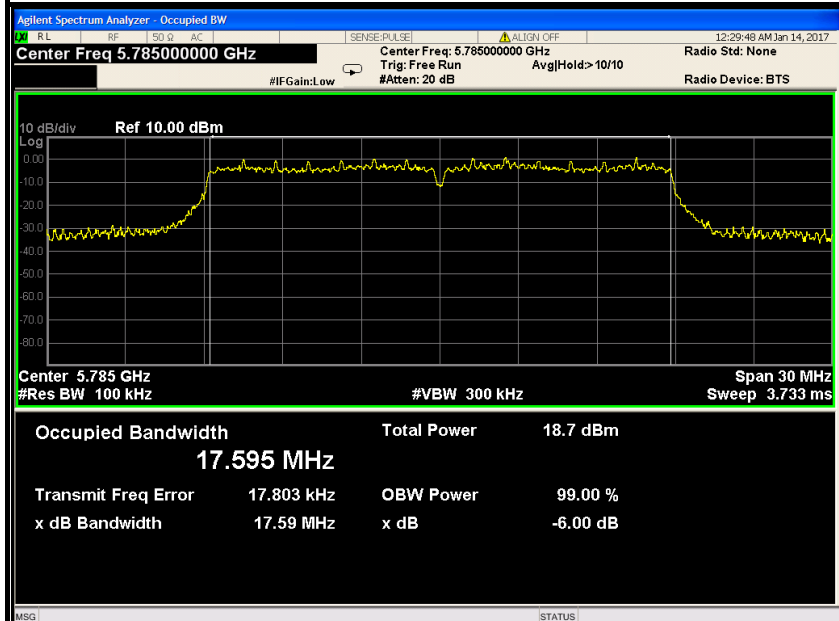


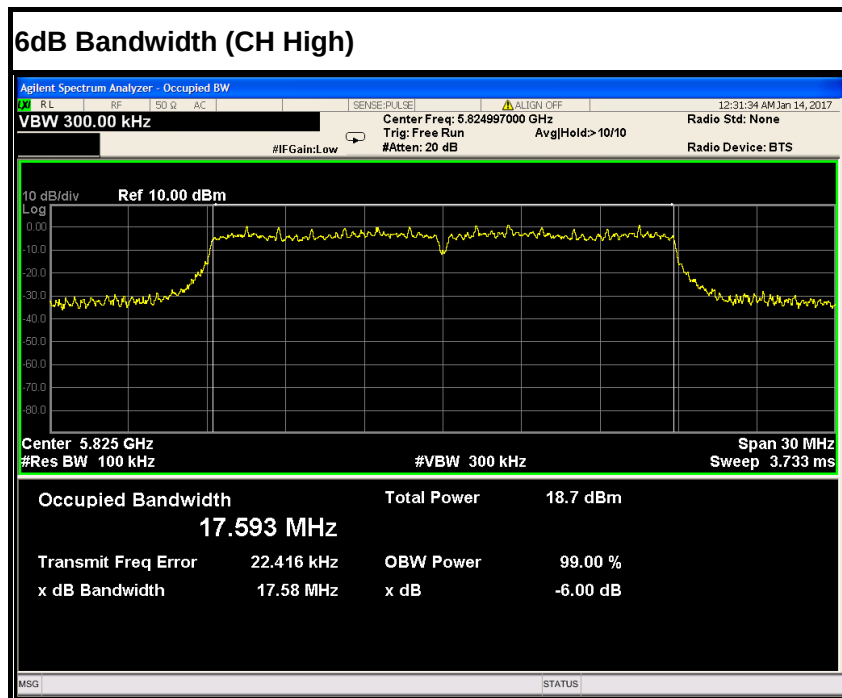
IEEE 802.11ac 20 mode / 5745 ~ 5825MHz

6dB Bandwidth (CH Low)



6dB Bandwidth (CH Mid)

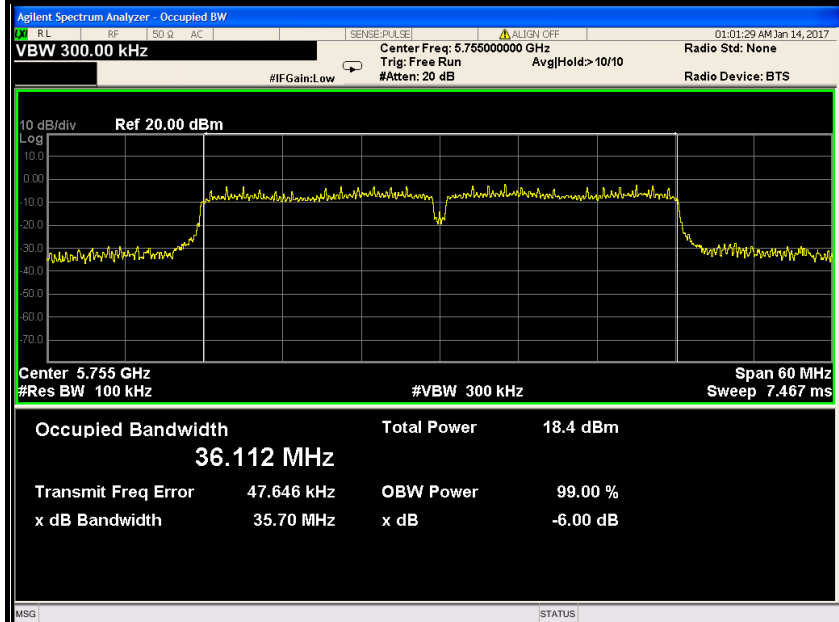




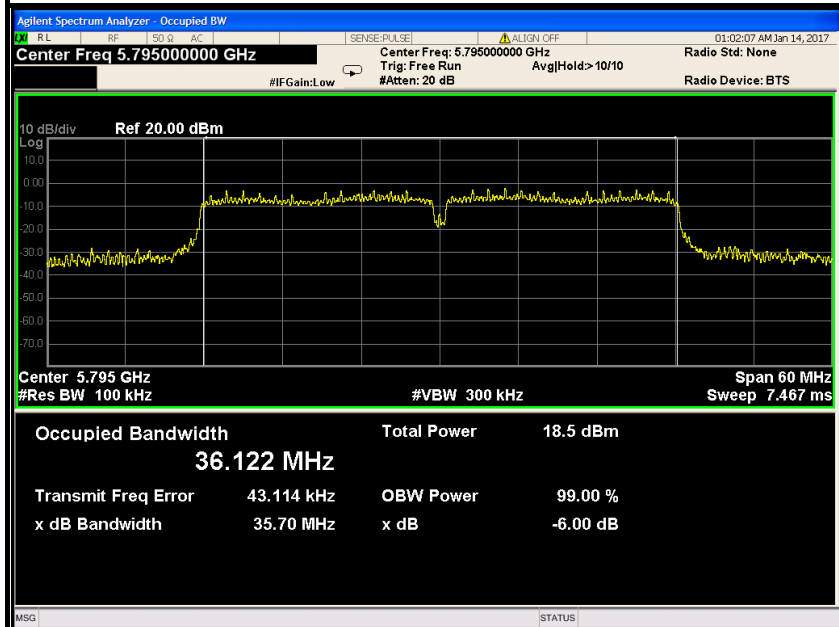


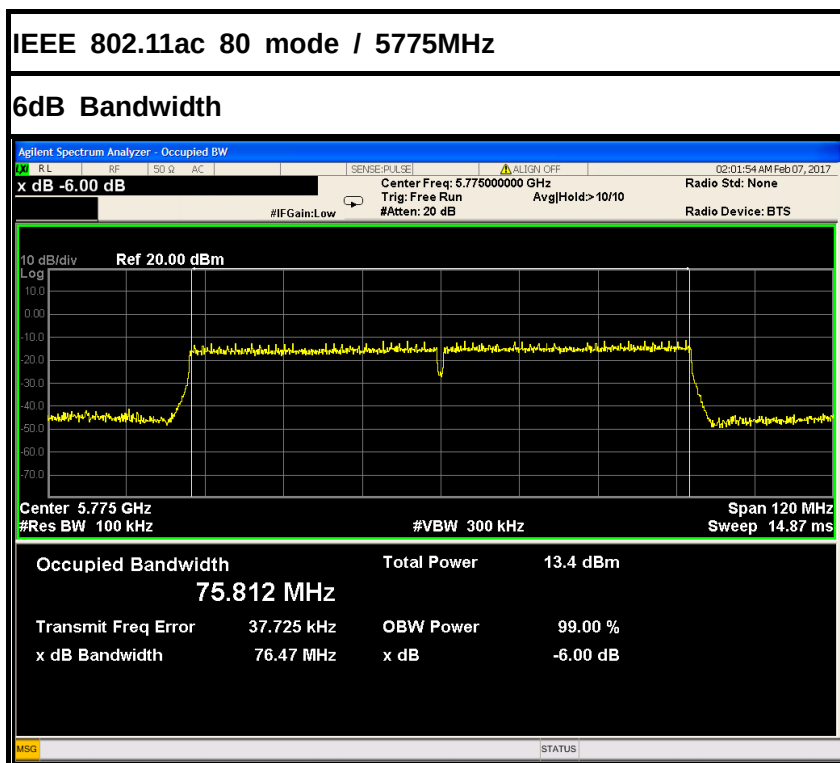
IEEE 802.11ac 40 mode / 5755 ~ 5795MHz

6dB Bandwidth (CH Low)



6dB Bandwidth (CH High)







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 normal WLAN devices, the OFDM 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 1)

T_{nom}	V_{nom}	Lowest channel 5180MHz	Highest channel 5320MHz
Conducted power [dBm] Measured with OFDM modulation		2.10	2.09
Radiated power [dBm] Measured with OFDM modulation		4.93	4.95
Gain [dBi] Calculated		2.83	2.86
Measurement uncertainty		± 1.5 dB (cond.) / ± 3 dB (rad.)	

IEEE 802.11a mode (Antenna 2)

T_{nom}	V_{nom}	Lowest channel 5180MHz	Highest channel 5320MHz
Conducted power [dBm] Measured with OFDM modulation		2.19	1.76
Radiated power [dBm] Measured with OFDM modulation		5.12	4.73
Gain [dBi] Calculated		2.93	2.97
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 collocated 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 collocated 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****Antenna 1****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)
Low	5260	20.60	13.14	24.14	24.00
Mid	5300	20.18	13.05	24.05	24.00
High	5320	21.61	13.35	24.35	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)
Low	5500	24.21	13.84	24.84	24.00
Mid	5580	24.53	13.90	24.90	24.00
High	5700	24.09	13.82	24.82	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)
Low	5260	25.21	14.02	25.02	24.00
Mid	5300	27.08	14.33	25.33	24.00
High	5320	26.18	14.18	25.18	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)
Low	5500	27.16	14.34	25.34	24.00
Mid	5580	27.92	14.46	25.46	24.00
High	5700	26.53	14.24	25.24	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)
Low	5270	40.65	16.09	27.09	24.00
High	5310	40.53	16.08	27.08	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)
Low	5510	41.08	16.14	27.14	24.00
Mid	5550	40.48	16.07	27.07	24.00
High	5670	40.66	16.09	27.09	24.00

Test mode: IEEE 802.11ac 20 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)
Low	5260	20.23	13.06	24.06	24.00
Mid	5300	20.47	13.11	24.11	24.00
High	5320	20.40	13.10	24.10	24.00

Test mode: IEEE 802.11ac 20 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)
Low	5500	20.45	13.11	24.11	24.00
Mid	5580	21.29	13.28	24.28	24.00
High	5700	20.23	13.06	24.06	24.00

IEEE 802.11ac 40 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)
Low	5270	40.32	16.06	27.06	24.00
High	5310	40.20	16.04	27.04	24.00

IEEE 802.11ac 40 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)
Low	5510	40.49	16.07	27.07	24.00
Mid	5550	40.23	16.05	27.05	24.00
High	5670	40.48	16.07	27.07	24.00

**Test mode: 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)
	5290	81.77	19.13	30.13	24.00

Test mode: 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)
	5530	81.63	19.12	30.12	24.00

Antenna 2**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)
Low	5260	20.62	13.14	24.14	24.00
Mid	5300	21.19	13.26	24.26	24.00
High	5320	24.17	13.83	24.83	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)
Low	5500	22.65	13.55	24.55	24.00
Mid	5580	20.88	13.20	24.20	24.00
High	5700	25.85	14.12	25.12	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)
Low	5260	23.45	13.70	24.70	24.00
Mid	5300	25.91	14.13	25.13	24.00
High	5320	24.12	13.82	24.82	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)
Low	5500	25.54	14.07	25.07	24.00
Mid	5580	25.41	14.05	25.05	24.00
High	5700	27.69	14.42	25.42	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)
Low	5270	40.81	16.11	27.11	24.00
High	5310	40.69	16.09	27.09	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)
Low	5510	40.69	16.09	27.09	24.00
Mid	5550	40.74	16.10	27.10	24.00
High	5670	40.48	16.07	27.07	24.00

Test mode: IEEE 802.11ac 20 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)
Low	5260	20.22	13.06	24.06	24.00
Mid	5300	20.24	13.06	24.06	24.00
High	5320	20.44	13.10	24.10	24.00

Test mode: IEEE 802.11ac 20 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)
Low	5500	20.11	13.03	24.03	24.00
Mid	5580	20.25	13.06	24.06	24.00
High	5700	21.12	13.25	24.25	24.00

**IEEE 802.11ac 40 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)
Low	5270	40.03	16.02	27.02	24.00
High	5310	40.33	16.06	27.06	24.00

IEEE 802.11ac 40 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)
Low	5510	43.10	16.34	27.34	24.00
Mid	5550	40.34	16.06	27.06	24.00
High	5670	47.26	16.74	27.74	24.00

Test mode: 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)
	5290	81.86	19.13	30.13	24.00

Test mode: 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)
	5530	81.91	19.13	30.13	24.00



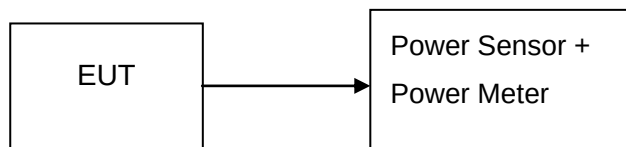
6.4.2 MEASUREMENT EQUIPMENT USED

Name of Equipment	Manufacturer	Model	Serial Number	Last Calibration	Calibration Due
Power Meter	Anritsu	ML2495A	1204003	02/21/2016	02/20/2017
Power Sensor	Anritsu	MA2411B	1126150	02/21/2016	02/20/2017

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

6.4.3 TEST CONFIGURATIONS

The EUT was connected to a spectrum analyzer through a 50Ω RF cable.



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)	Output Power (dBm)		Output Power (W)		Limit (dBm)	Result
		Antenna 1	Antenna 2	Antenna 1	Antenna 2		
Low	5180	14.43	14.36	0.02773	0.02729	24.00	PASS
Mid	5200	14.42	14.37	0.02767	0.02735		PASS
High	5240	14.01	14.34	0.02518	0.02716		PASS

IEEE 802.11a mode / 5260~ 5320MHz

Channel	Frequency (MHz)	Output Power (dBm)		Output Power (W)		Limit (dBm)	Result
		Antenna 1	Antenna 2	Antenna 1	Antenna 2		
Low	5260	14.17	13.97	0.02612	0.02495	24.00	PASS
Mid	5300	13.70	14.10	0.02344	0.02570		PASS
High	5320	13.72	13.55	0.02355	0.02265		PASS

IEEE 802.11a mode / 5500 ~ 5700MHz

Channel	Frequency (MHz)	Output Power (dBm)		Output Power (W)		Limit (dBm)	Result
		Antenna 1	Antenna 2	Antenna 1	Antenna 2		
Low	5500	14.71	14.41	0.02958	0.02761	24.00	PASS
Mid	5580	14.75	14.34	0.02985	0.02716		PASS
High	5700	14.57	14.23	0.02864	0.02649		PASS

IEEE 802.11a mode / 5745 ~ 5825MHz

Channel	Frequency (MHz)	Output Power (dBm)		Output Power (W)		Limit (dBm)	Result
		Antenna 1	Antenna 2	Antenna 1	Antenna 2		
Low	5745	15.02	14.32	0.03177	0.02704	30.00	PASS
Mid	5785	15.08	14.19	0.03221	0.02624		PASS
High	5825	15.07	14.14	0.03214	0.02594		PASS

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

Channel	Frequency (MHz)	Output Power (dBm)		Output Power (W)		Limit (dBm)	Result
		Antenna 1	Antenna 2	Antenna 1	Antenna 2		
Low	5180	14.54	14.41	0.02844	0.02761	24.00	PASS
Mid	5200	14.09	14.40	0.02564	0.02754		PASS
High	5240	14.28	13.86	0.02679	0.02432		PASS

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

Channel	Frequency (MHz)	Output Power (dBm)		Output Power (W)		Limit (dBm)	Result
		Antenna 1	Antenna 2	Antenna 1	Antenna 2		
Low	5260	14.10	13.93	0.02570	0.02472	24.00	PASS
Mid	5300	13.36	13.58	0.02168	0.02280		PASS
High	5320	13.72	14.08	0.02355	0.02559		PASS

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

Channel	Frequency (MHz)	Output Power (dBm)		Output Power (W)		Limit (dBm)	Result
		Antenna 1	Antenna 2	Antenna 1	Antenna 2		
Low	5500	14.68	14.35	0.02938	0.02723	24.00	PASS
Mid	5580	14.60	14.43	0.02884	0.02773		PASS
High	5700	14.57	14.04	0.02864	0.02535		PASS

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

Channel	Frequency (MHz)	Output Power (dBm)		Output Power (W)		Limit (dBm)	Result
		Antenna 1	Antenna 2	Antenna 1	Antenna 2		
Low	5745	14.60	14.55	0.02884	0.02851	30.00	PASS
Mid	5785	15.09	14.14	0.03228	0.02594		PASS
High	5825	14.95	14.11	0.03126	0.02576		PASS

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

Channel	Frequency (MHz)	Output Power (dBm)		Output Power (W)		Limit (dBm)	Result
		Antenna 1	Antenna 2	Antenna 1	Antenna 2		
Low	5190	10.23	11.39	0.01054	0.01377	24.00	PASS
High	5230	10.00	11.08	0.01000	0.01282		PASS

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

Channel	Frequency (MHz)	Output Power (dBm)		Output Power (W)		Limit (dBm)	Result
		Antenna 1	Antenna 2	Antenna 1	Antenna 2		
Low	5270	11.40	14.47	0.01380	0.02799	24.00	PASS
High	5310	11.41	10.49	0.01384	0.01119		PASS

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

Channel	Frequency (MHz)	Output Power (dBm)		Output Power (W)		Limit (dBm)	Result
		Antenna 1	Antenna 2	Antenna 1	Antenna 2		
Low	5510	11.30	12.51	0.01349	0.01782	24.00	PASS
Mid	5550	11.46	12.62	0.01400	0.01828		PASS
High	5670	11.30	12.24	0.01349	0.01675		PASS

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

Channel	Frequency (MHz)	Output Power (dBm)		Output Power (W)		Limit (dBm)	Result
		Antenna 1	Antenna 2	Antenna 1	Antenna 2		
Low	5755	15.22	14.55	0.03327	0.02851	30.00	PASS
High	5795	14.99	14.29	0.03155	0.02685		PASS

**IEEE 802.11ac 20 mode / 5180 ~ 5240MHz**

Channel	Frequency (MHz)	Output Power (dBm)		Output Power (W)		Limit (dBm)	Result
		Antenna 1	Antenna 2	Antenna 1	Antenna 2		
Low	5180	14.03	14.50	0.02529	0.02818	24.00	PASS
Mid	5200	14.08	13.93	0.02559	0.02472		PASS
High	5240	13.60	14.08	0.02291	0.02559		PASS

IEEE 802.11ac 20 mode / 5260~ 5320MHz

Channel	Frequency (MHz)	Output Power (dBm)		Output Power (W)		Limit (dBm)	Result
		Antenna 1	Antenna 2	Antenna 1	Antenna 2		
Low	5260	13.89	13.91	0.02449	0.02460	24.00	PASS
Mid	5300	13.77	13.53	0.02382	0.02254		PASS
High	5320	13.65	13.52	0.02317	0.02249		PASS

IEEE 802.11ac 20 mode / 5500 ~ 5700MHz

Channel	Frequency (MHz)	Output Power (dBm)		Output Power (W)		Limit (dBm)	Result
		Antenna 1	Antenna 2	Antenna 1	Antenna 2		
Low	5500	14.36	14.28	0.02729	0.02679	24.00	PASS
Mid	5580	13.65	14.36	0.02317	0.02729		PASS
High	5700	14.68	14.04	0.02938	0.02535		PASS

IEEE 802.11ac 20 mode / 5745 ~ 5825MHz

Channel	Frequency (MHz)	Output Power (dBm)		Output Power (W)		Limit (dBm)	Result
		Antenna 1	Antenna 2	Antenna 1	Antenna 2		
Low	5745	14.71	14.27	0.02958	0.02673	30.00	PASS
Mid	5785	15.03	14.11	0.03184	0.02576		PASS
High	5825	14.93	13.85	0.03112	0.02427		PASS

**IEEE 802.11ac 40 mode / 5190 ~ 5230MHz**

Channel	Frequency (MHz)	Output Power (dBm)		Output Power (W)		Limit (dBm)	Result
		Antenna 1	Antenna 2	Antenna 1	Antenna 2		
Low	5190	12.02	10.15	0.01592	0.01035	24.00	PASS
High	5230	11.82	9.63	0.01521	0.00918		PASS

IEEE 802.11ac 40 mode / 5270 ~ 5310MHz

Channel	Frequency (MHz)	Output Power (dBm)		Output Power (W)		Limit (dBm)	Result
		Antenna 1	Antenna 2	Antenna 1	Antenna 2		
Low	5270	11.77	9.59	0.01503	0.00910	24.00	PASS
High	5310	11.29	9.15	0.01346	0.00822		PASS

IEEE 802.11ac 40 mode / 5510 ~ 5670MHz

Channel	Frequency (MHz)	Output Power (dBm)		Output Power (W)		Limit (dBm)	Result
		Antenna 1	Antenna 2	Antenna 1	Antenna 2		
Low	5510	11.28	12.57	0.01343	0.01807	24.00	PASS
Mid	5550	11.63	12.30	0.01455	0.01698		PASS
High	5670	11.28	12.17	0.01343	0.01648		PASS

IEEE 802.11ac 40 mode / 5755 ~ 5795MHz

Channel	Frequency (MHz)	Output Power (dBm)		Output Power (W)		Limit (dBm)	Result
		Antenna 1	Antenna 2	Antenna 1	Antenna 2		
Low	5755	15.14	14.07	0.03266	0.02553	30.00	PASS
High	5795	14.94	13.94	0.03119	0.02477		PASS

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

Channel	Frequency (MHz)	Output Power (dBm)		Output Power (W)		Limit (dBm)	Result
		Antenna 1	Antenna 2	Antenna 1	Antenna 2		
	5210	8.60	6.61	0.00724	0.00458	24.00	PASS

IEEE 802.11ac 80 mode / 5290MHz

Channel	Frequency (MHz)	Output Power (dBm)		Output Power (W)		Limit (dBm)	Result
		Antenna 1	Antenna 2	Antenna 1	Antenna 2		
	5290	8.52	6.30	0.00711	0.00427	24.00	PASS

IEEE 802.11ac 80 mode / 5530MHz

Channel	Frequency (MHz)	Output Power (dBm)		Output Power (W)		Limit (dBm)	Result
		Antenna 1	Antenna 2	Antenna 1	Antenna 2		
	5530	10.34	10.30	0.01081	0.01072	24.00	PASS

IEEE 802.11ac 80 mode / 5775MHz

Channel	Frequency (MHz)	Output Power (dBm)		Output Power (W)		Limit (dBm)	Result
		Antenna 1	Antenna 2	Antenna 1	Antenna 2		
	5775	10.51	9.62	0.01125	0.00916	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	02/21/2016	02/20/2017
EMI TEST RECEIVER	ROHDE&SCHWARZ	ESCI	100783	02/21/2016	02/20/2017
Amplifier	EMEC	EM330	060661	03/18/2016	03/17/2017
High Noise Amplifier	Agilent	8449B	3008A01838	02/21/2016	02/20/2017
Loop Antenna	COM-POWER	AL-130	121044	09/25/2016	09/24/2017
Bilog Antenna	SCHAFFNER	CBL6143	5082	02/21/2016	02/20/2017
Horn Antenna	SCHWARZBECK	BBHA9120	D286	02/28/2016	02/27/2017
Board-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170-497	02/28/2016	02/27/2017
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	02/21/2016	02/20/2017
Test S/W	FARAD	LZ-RF / CCS-SZ-3A2			

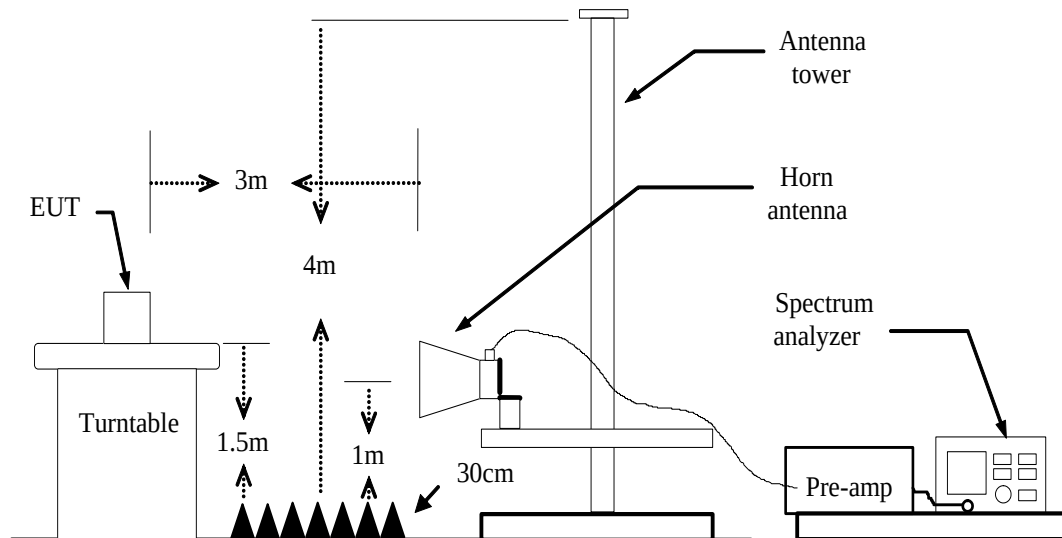
NOTE: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

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 / 1.5kHz / 5.1kHz / Sweep=AUTO / Detector=Peak
5. Repeat the procedures until all the PEAK and AVERAGE versus POLARIZATION are measured.



6.5.5 TEST RESULT

Antenna 1

IEEE 802.11a mode / 5500 ~ 5700MHz

1. Operating Frequency: 5500-5700MHz
2. CH Low: 5500MHz, CH High: 5700MHz
3. 26dB bandwidth: CH Low: 24.21MHz, CH High: 24.09MHz
4. Frequency Range: 5487.895MHz, 5712.045MHz

IEEE 802.11a mode / 5745 ~ 5825MHz

1. Operating Frequency: 5745-5825MHz
2. CH Low: 5745MHz, CH High: 5825MHz
3. 26dB bandwidth: CH Low: 25.68MHz, CH High: 27.15MHz
4. Frequency Range: 5732.160MHz, 5838.575MHz

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

1. Operating Frequency: 5500-5700MHz
2. CH Low: 5500MHz, CH High: 5700MHz
3. 26dB bandwidth: CH Low: 27.16MHz, CH High: 26.53MHz
4. Frequency Range: 5486.420MHz, 5713.265MHz

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

1. Operating Frequency: 5745-5825MHz
2. CH Low: 5745MHz, CH High: 5825MHz
3. 26dB bandwidth: CH Low: 29.48MHz, CH High: 25.76MHz
4. Frequency Range: 5730.260MHz, 5837.880MHz

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

1. Operating Frequency: 5510-5670MHz
2. CH Low: 5510MHz, CH High: 5670MHz
3. 26dB bandwidth: CH Low: 41.08MHz, CH High: 40.66MHz
4. Frequency Range: 5489.460MHz, 5690.330MHz

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

1. Operating Frequency: 5755-5795MHz
2. CH Low: 5755MHz, CH High: 5795MHz
3. 26dB bandwidth: CH Low: 59.07MHz, CH High: 56.49MHz
4. Frequency Range: 5725.465MHz, 5823.245MHz



IEEE 802.11ac 20 mode / 5500 ~ 5700MHz

1. Operating Frequency: 5500-5700MHz
2. CH Low: 5500MHz, CH High: 5700MHz
3. 26dB bandwidth: CH Low: 20.45MHz, CH High: 21.23MHz
4. Frequency Range: 5489.775MHz, 5710.615MHz

IEEE 802.11ac 20 mode / 5745 ~ 5825MHz

1. Operating Frequency: 5745-5825MHz
2. CH Low: 5745MHz, CH High: 5825MHz
3. 26dB bandwidth: CH Low: 20.45MHz, CH High: 20.56MHz
4. Frequency Range: 5734.775MHz, 5835.280MHz

IEEE 802.11ac 40 mode / 5510 ~ 5670MHz

1. Operating Frequency: 5510-5670MHz
2. CH Low: 5510MHz, CH High: 5670MHz
3. 26dB bandwidth: CH Low: 40.49MHz, CH High: 40.48MHz
4. Frequency Range: 5489.755MHz, 5690.240MHz

IEEE 802.11ac 40 mode / 5755 ~ 5795MHz

1. Operating Frequency: 5755-5795MHz
2. CH Low: 5755MHz, CH High: 5795MHz
3. 26dB bandwidth: CH Low: 55.93MHz, CH High: 57.31MHz
4. Frequency Range: 5727.035MHz, 5823.655MHz

Test mode: IEEE 802.11ac 80 mode / 5530MHz

1. Operating Frequency: 5530MHz
2. CH: 5530MHz
3. 26dB bandwidth: CH: 81.63MHz
4. Frequency Range: 5489.185MHz, 5570.815MHz

Test mode: IEEE 802.11ac 80 mode / 5775MHz

1. Operating Frequency: 5775MHz
2. CH: 5775MHz
3. 26dB bandwidth: CH: 82.08MHz
4. Frequency Range: 5733.960MHz, 5816.040MHz



Antenna 2

IEEE 802.11a mode / 5500 ~ 5700MHz

1. Operating Frequency: 5500-5700MHz
2. CH Low: 5500MHz, CH High: 5700MHz
3. 26dB bandwidth: CH Low: 22.65MHz, CH High: 25.85MHz
4. Frequency Range: 5488.675MHz, 5712.925MHz

IEEE 802.11a mode / 5745 ~ 5825MHz

1. Operating Frequency: 5745-5825MHz
2. CH Low: 5745MHz, CH High: 5825MHz
3. 26dB bandwidth: CH Low: 29.25MHz, CH High: 27.83MHz
4. Frequency Range: 5730.375MHz, 5838.915MHz

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

1. Operating Frequency: 5500-5700MHz
2. CH Low: 5500MHz, CH High: 5700MHz
3. 26dB bandwidth: CH Low: 25.54MHz, CH High: 27.693MHz
4. Frequency Range: 5487.230MHz, 5713.847MHz

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

1. Operating Frequency: 5745-5825MHz
2. CH Low: 5745MHz, CH High: 5825MHz
3. 26dB bandwidth: CH Low: 28.94MHz, CH High: 29.42MHz
4. Frequency Range: 5730.530MHz, 5839.710MHz

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

1. Operating Frequency: 5510-5670MHz
2. CH Low: 5510MHz, CH High: 5670MHz
3. 26dB bandwidth: CH Low: 40.69MHz, CH High: 40.48MHz
4. Frequency Range: 5489.655MHz, 5649.760MHz

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

1. Operating Frequency: 5755-5795MHz
2. CH Low: 5755MHz, CH High: 5795MHz
3. 26dB bandwidth: CH Low: 57.42MHz, CH High: 55.69MHz
4. Frequency Range: 5726.290MHz, 5822.845MHz



IEEE 802.11ac 20 mode / 5500 ~ 5700MHz

1. Operating Frequency: 5500-5700MHz
2. CH Low: 5500MHz, CH High: 5700MHz
3. 26dB bandwidth: CH Low: 20.11MHz, CH High: 21.12MHz
4. Frequency Range: 5489.945MHz, 5710.560MHz

IEEE 802.11ac 20 mode / 5745 ~ 5825MHz

1. Operating Frequency: 5745-5825MHz
2. CH Low: 5745MHz, CH High: 5825MHz
3. 26dB bandwidth: CH Low: 20.48MHz, CH High: 20.78MHz
4. Frequency Range: 5734.760MHz, 5835.390MHz

IEEE 802.11ac 40 mode / 5510 ~ 5670MHz

1. Operating Frequency: 5510-5670MHz
2. CH Low: 5510MHz, CH High: 5670MHz
3. 26dB bandwidth: CH Low: 43.10MHz, CH High: 47.26MHz
4. Frequency Range: 5488.450MHz, 5693.630MHz

IEEE 802.11ac 40 mode / 5755 ~ 5795MHz

1. Operating Frequency: 5755-5795MHz
2. CH Low: 5755MHz, CH High: 5795MHz
3. 26dB bandwidth: CH Low: 54.40MHz, CH High: 59.42MHz
4. Frequency Range: 5727.800MHz, 5824.710MHz

Test mode: IEEE 802.11ac 80 mode / 5530MHz

1. Operating Frequency: 5530MHz
2. CH: 5530MHz
3. 26dB bandwidth: CH: 81.91MHz
4. Frequency Range: 5489.045MHz, 5570.955MHz

Test mode: IEEE 802.11ac 80 mode / 5775MHz

1. Operating Frequency: 5775MHz
2. CH: 5775MHz
3. 26dB bandwidth: CH: 81.78MHz
4. Frequency Range: 5734.110MHz, 5815.890MHz

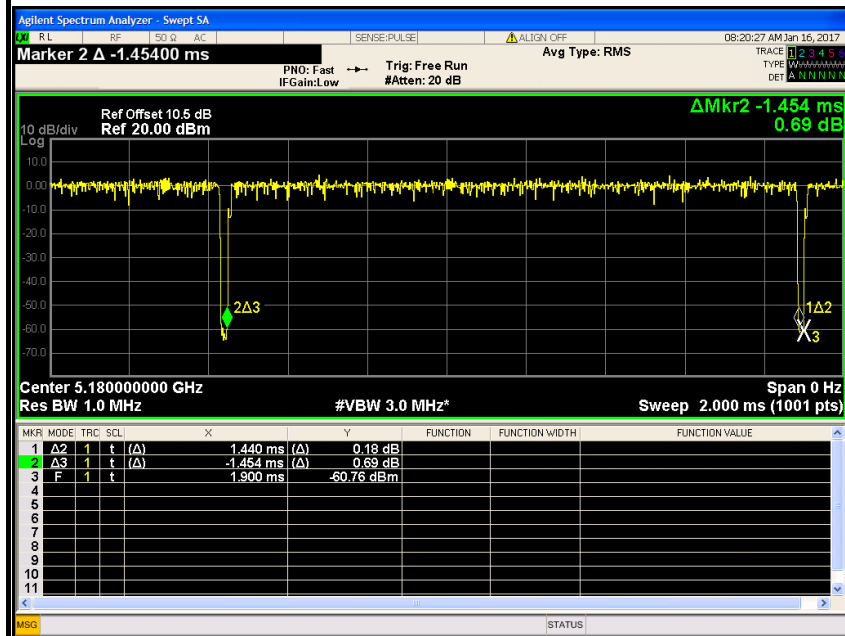
Because the mentioned conditions, the test is not applicable.



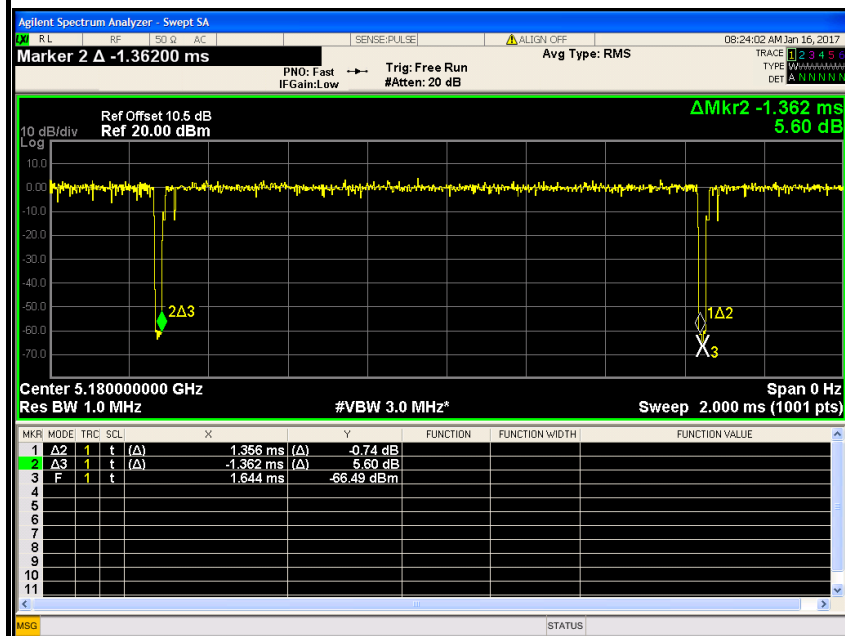
Duty Cycle Test Plot

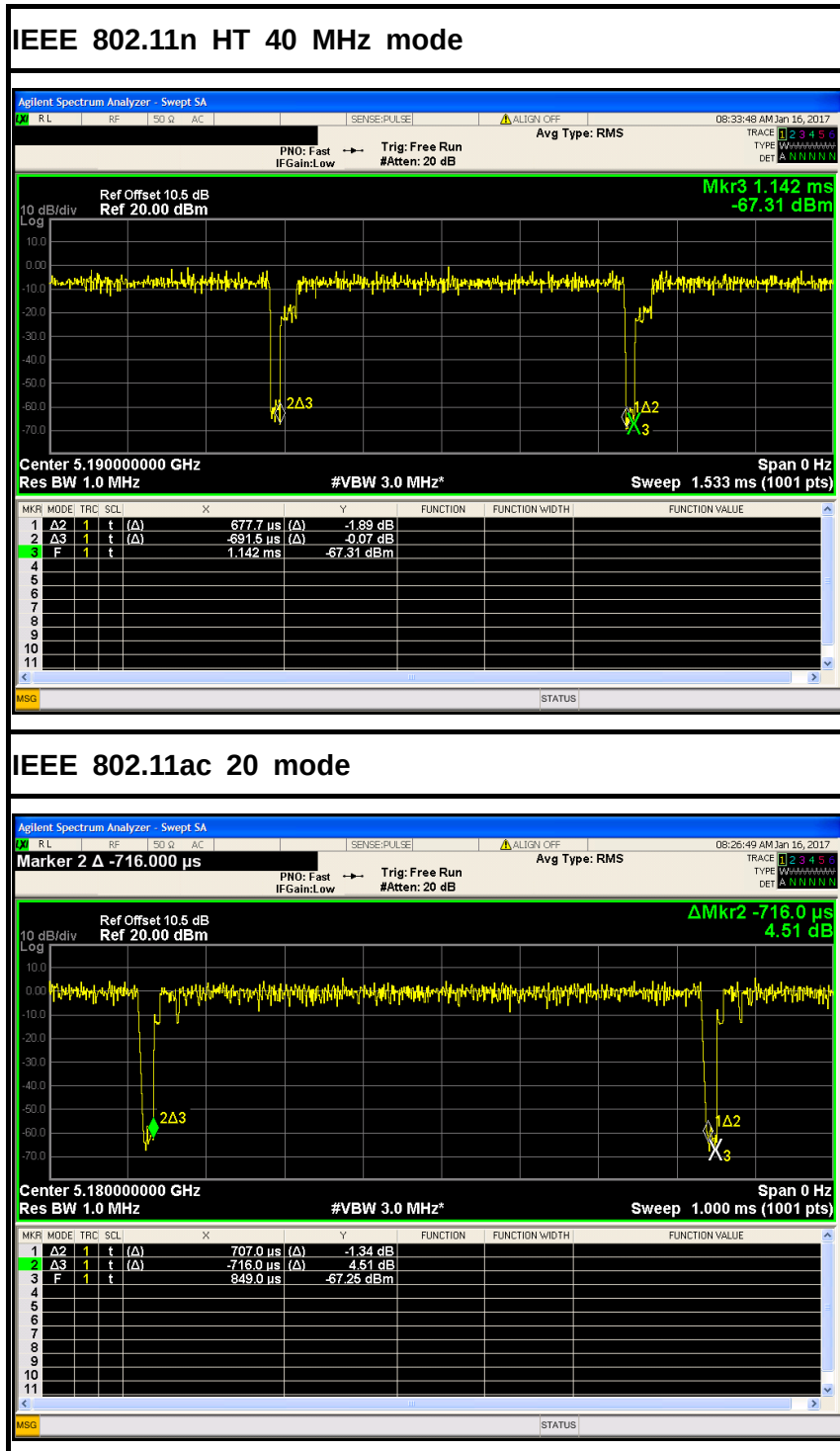
Antenna 1

IEEE 802.11a mode



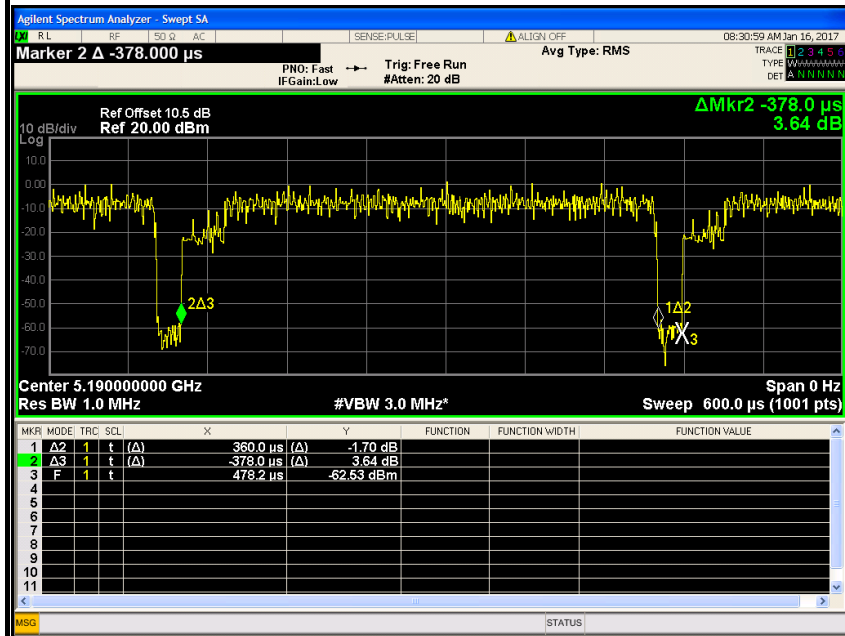
IEEE 802.11n HT 20 MHz mode



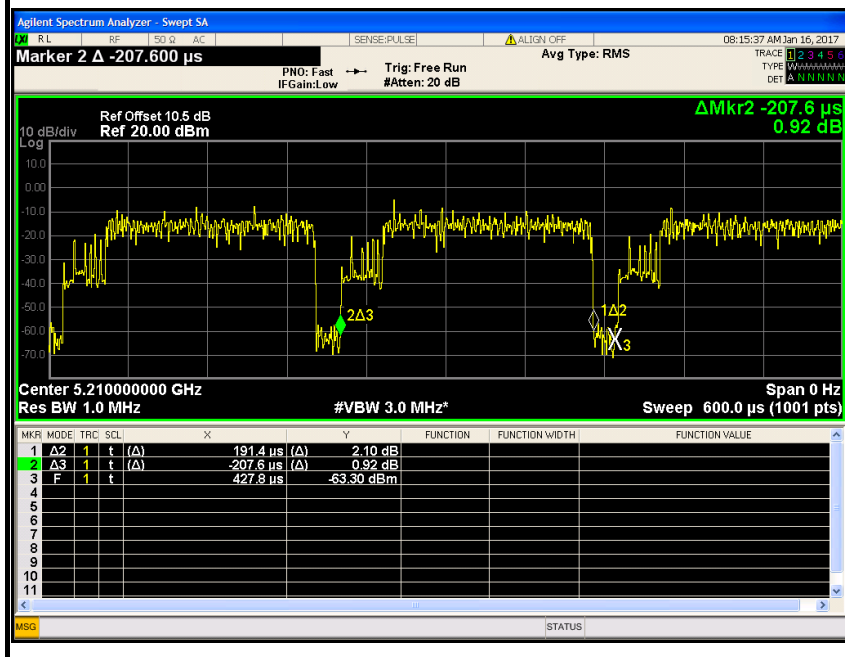




IEEE 802.11ac 40 mode



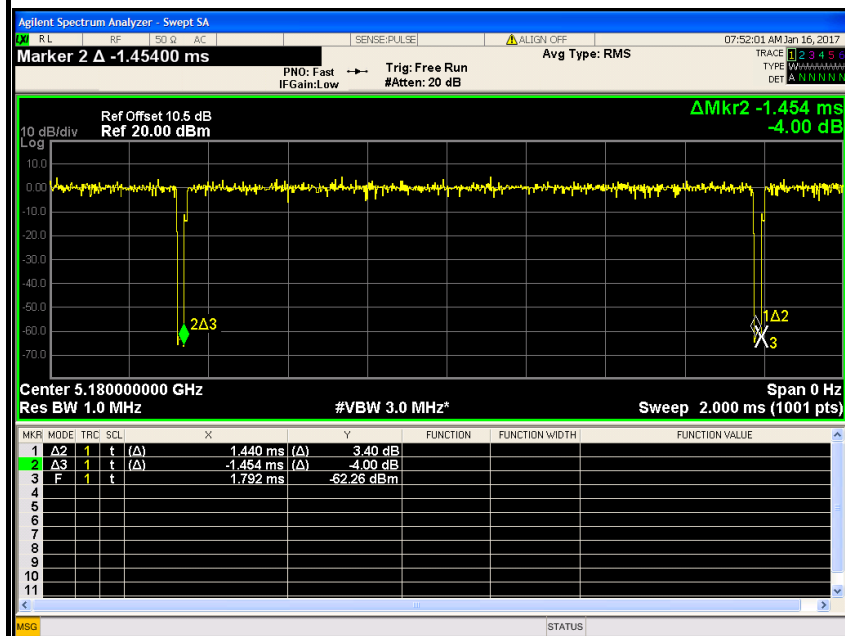
IEEE 802.11ac 80 mode



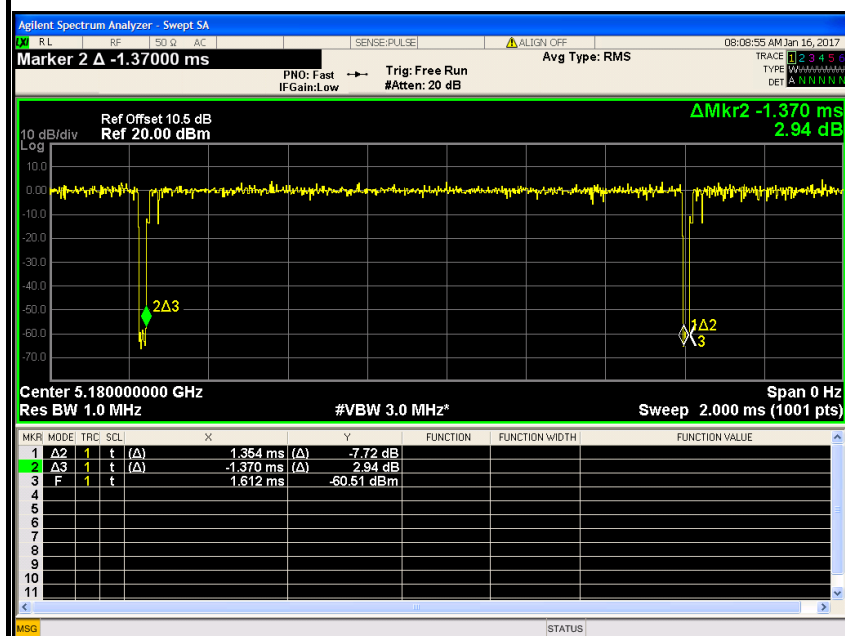


Antenna 2

IEEE 802.11a mode

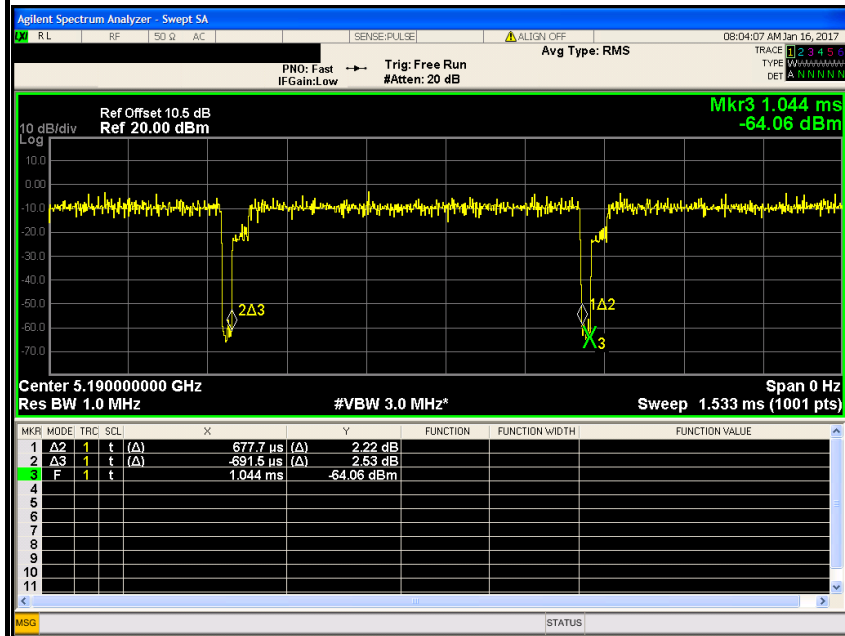


IEEE 802.11n HT 20 MHz mode

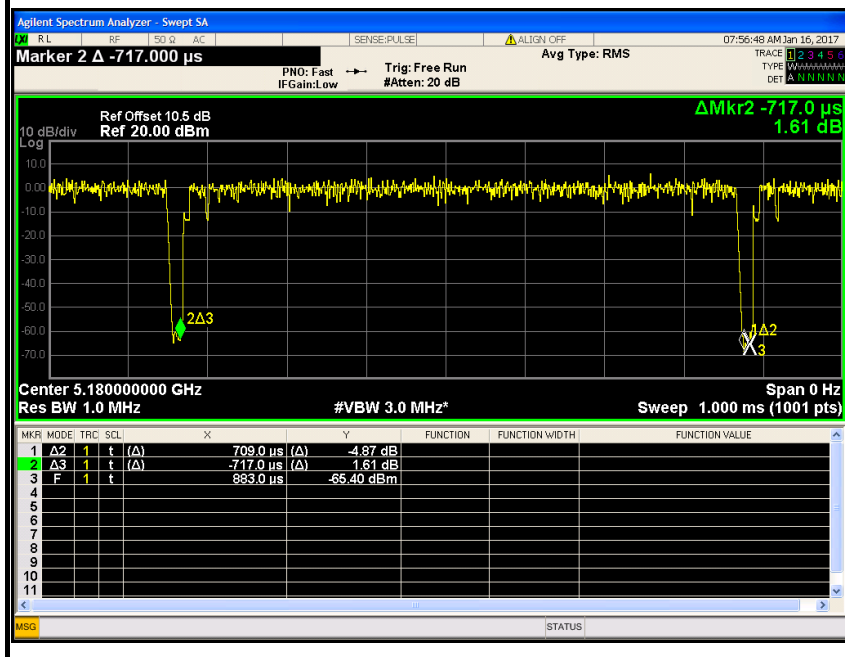




IEEE 802.11n HT 40 MHz mode

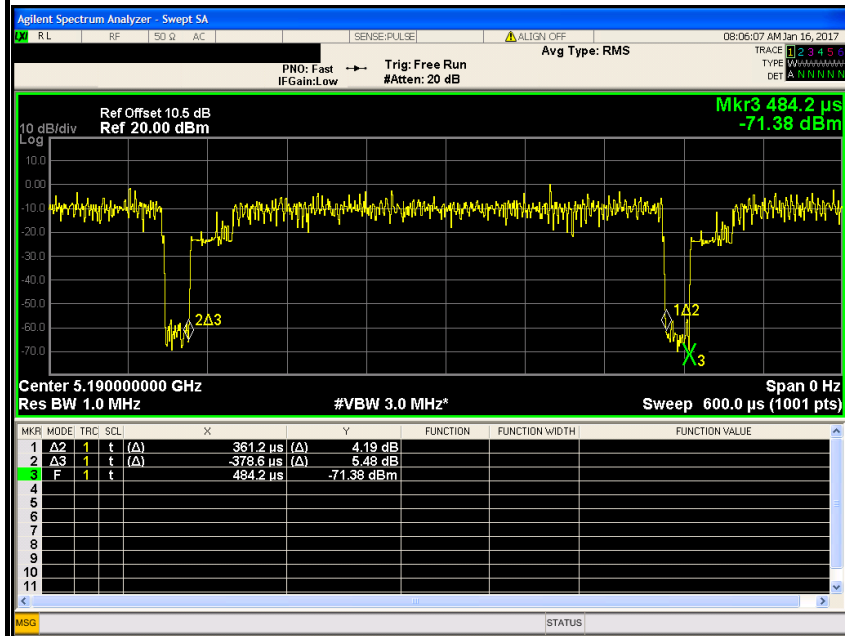


IEEE 802.11ac 20 mode

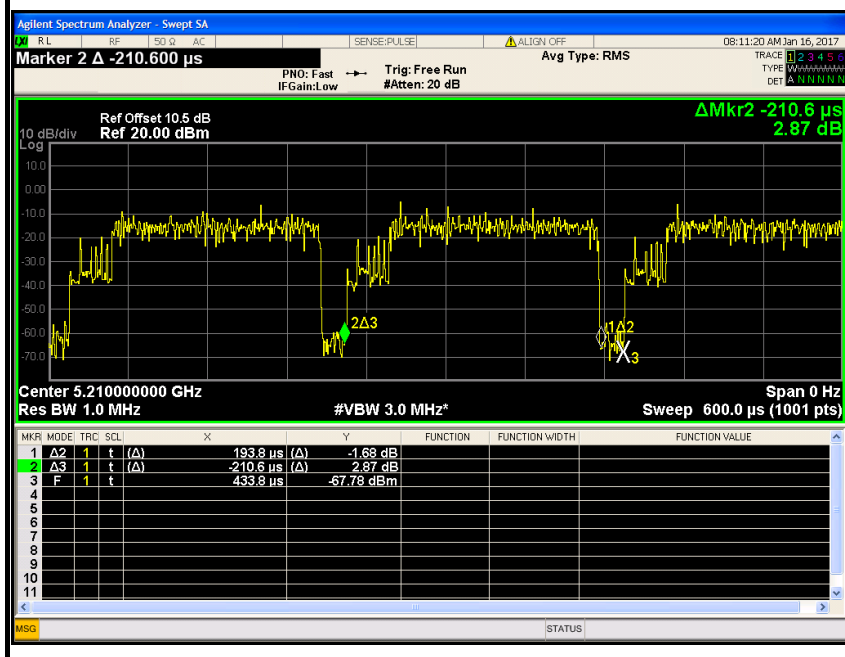




IEEE 802.11ac 40 mode



IEEE 802.11ac 80 mode

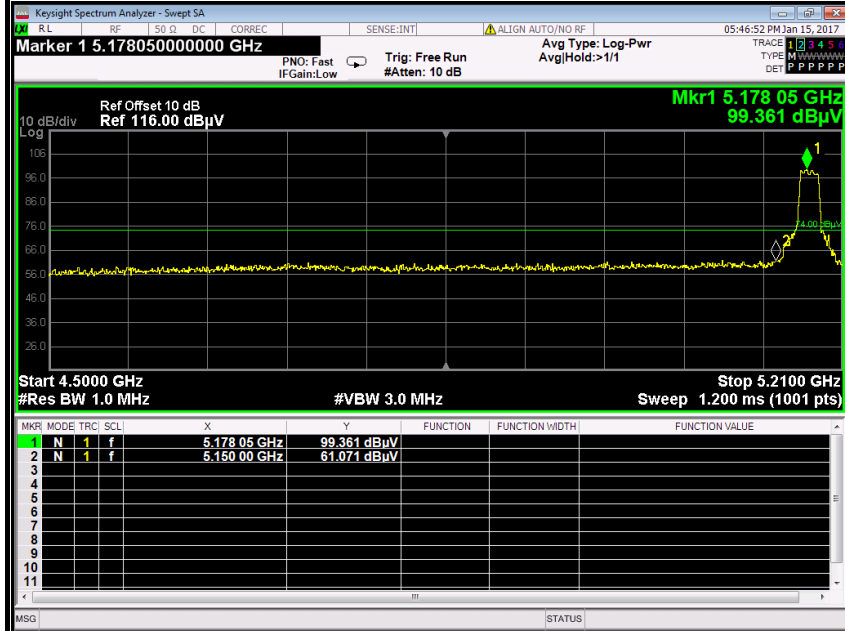




Antenna 1 Test Plot
IEEE 802.11a mode / 5180MHz

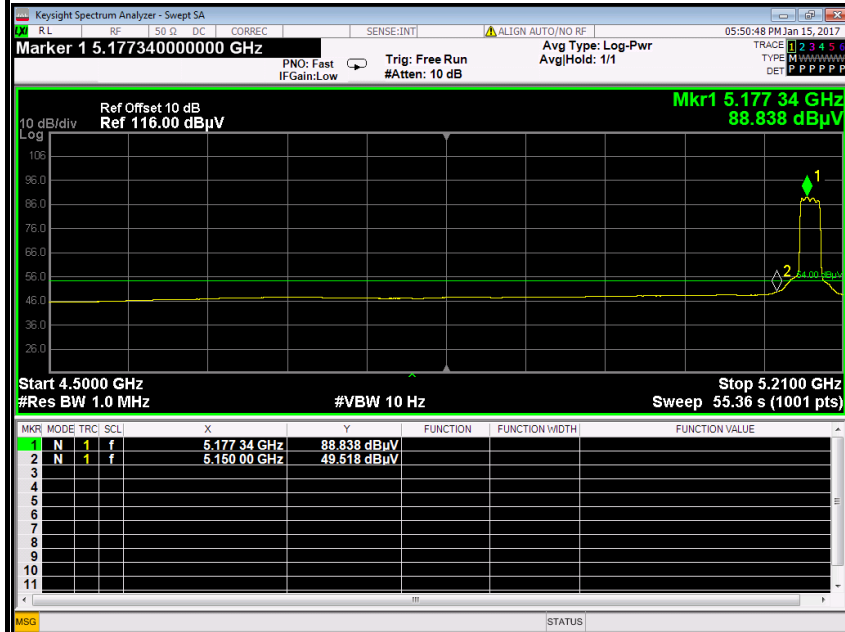
Detector mode: Peak

Polarity: Vertical

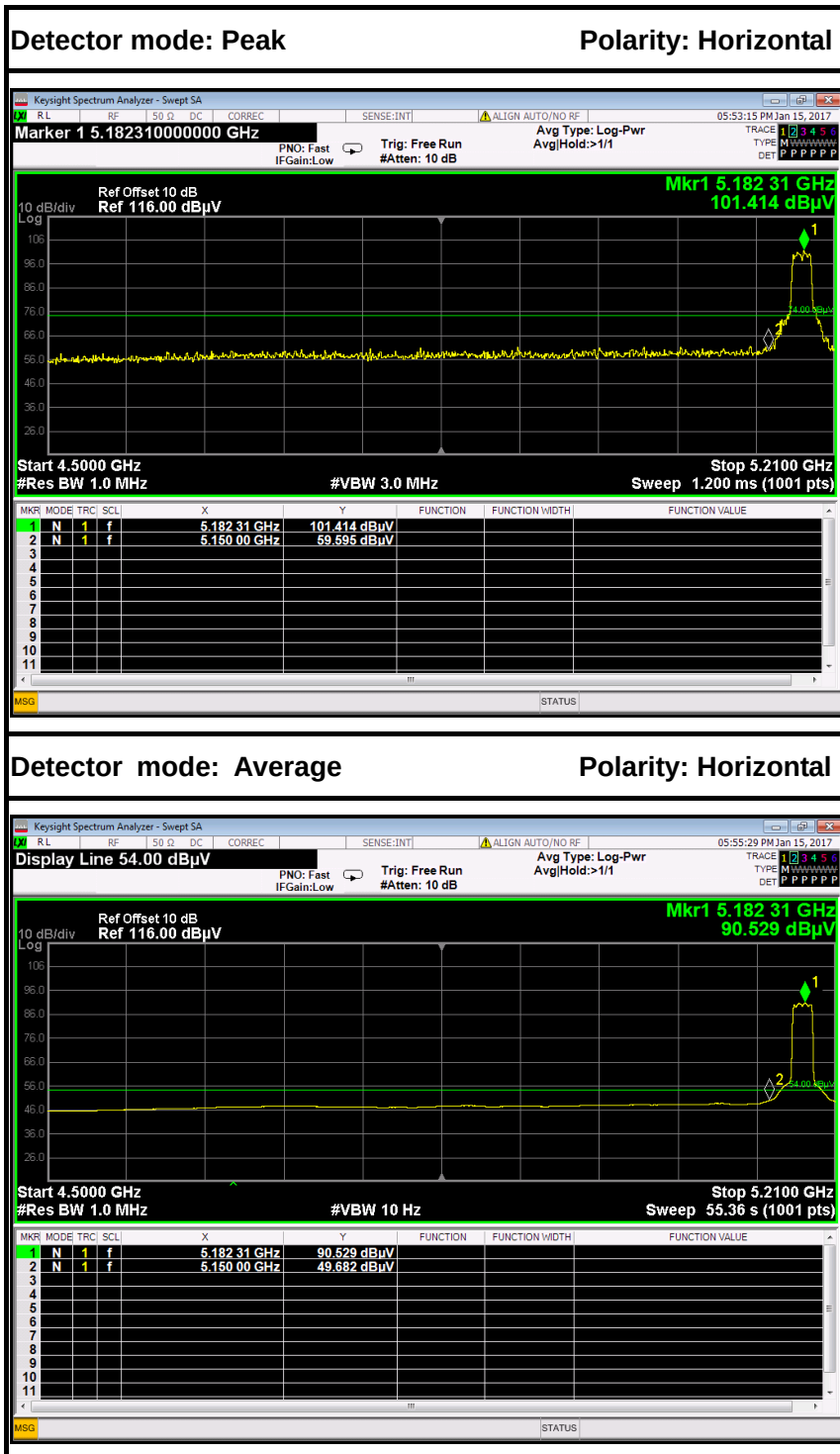


Detector mode: Average

Polarity: Vertical



No.	Frequency (MHz)	Reading (dBuV)	Corrected (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna Pole
1	5150.0000	65.67	5.60	60.07	74.00	-13.93	Peak	Vertical
2	5150.0000	55.12	5.60	49.52	54.00	-4.48	Average	Vertical



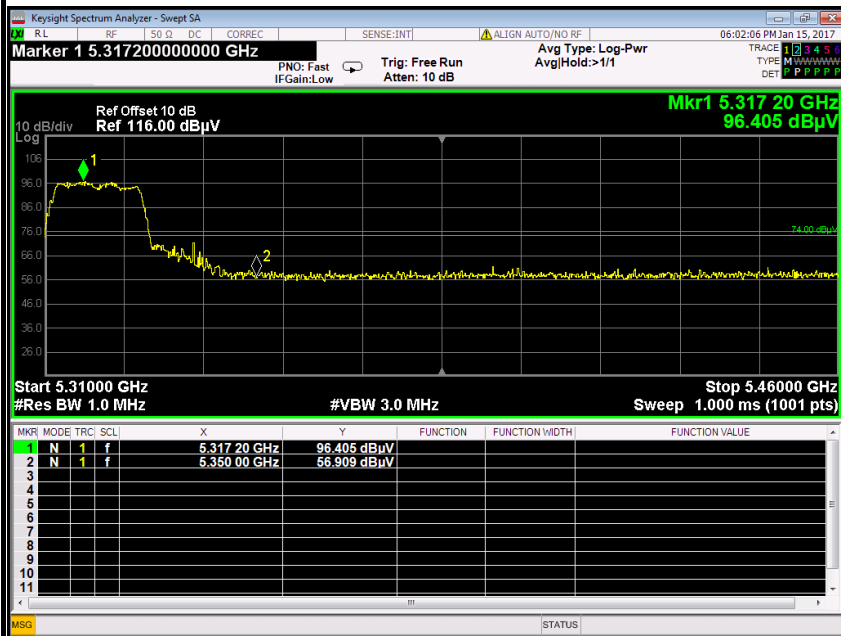
No.	Frequency (MHz)	Reading (dBuV)	Corrected (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna Pole
1	5350.0000	65.20	5.60	59.60	74.00	-14.41	Peak	Vertical
2	5350.0000	55.28	5.60	49.68	54.00	-4.32	Average	Vertical



IEEE 802.11a mode / 5320MHz

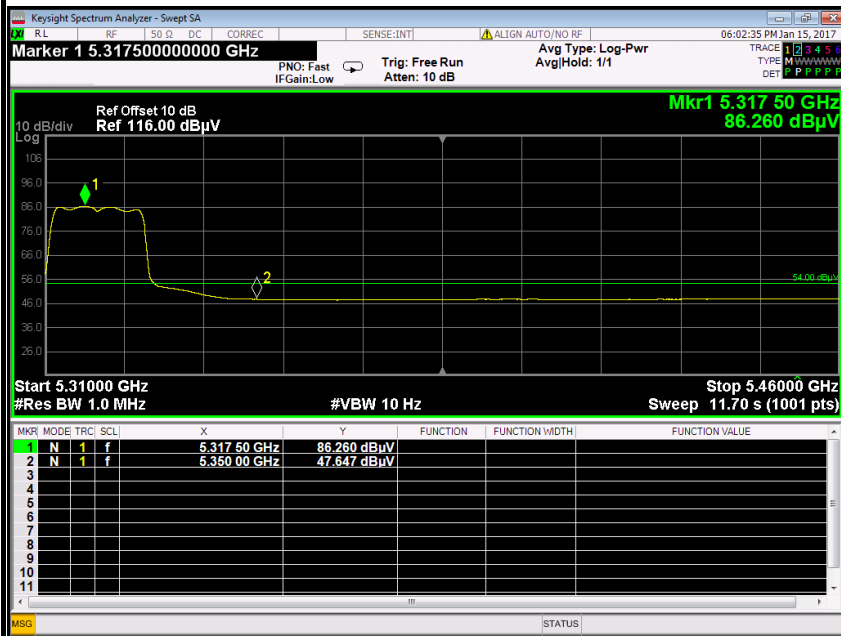
Detector mode: Peak

Polarity: Vertical

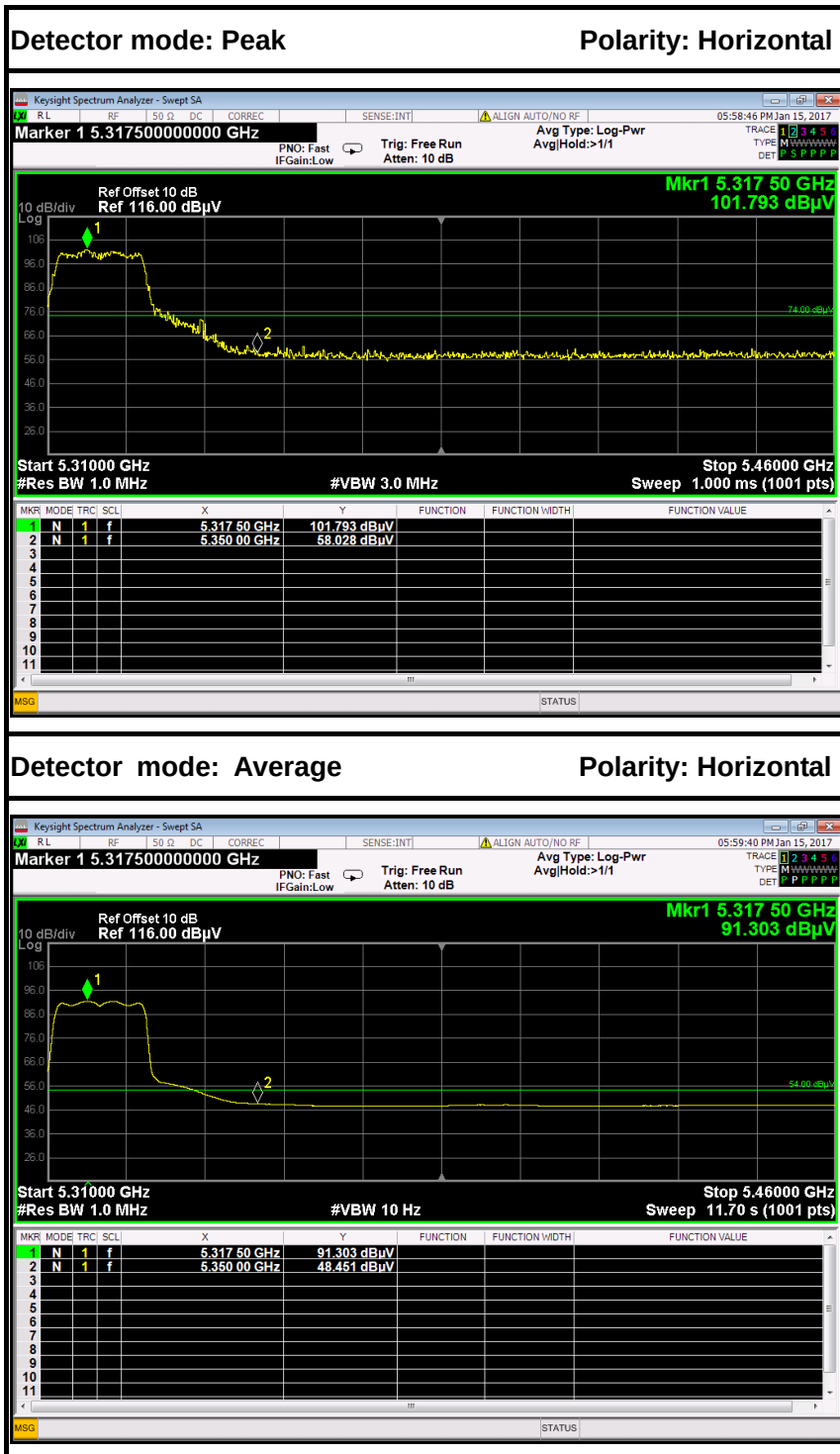


Detector mode: Average

Polarity: Vertical



No.	Frequency (MHz)	Reading (dBuV)	Corrected (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna Pole
1	5350.0000	62.51	5.60	56.91	74.00	-17.09	Peak	Vertical
2	5350.0000	53.25	5.60	47.65	54.00	-6.35	Average	Vertical



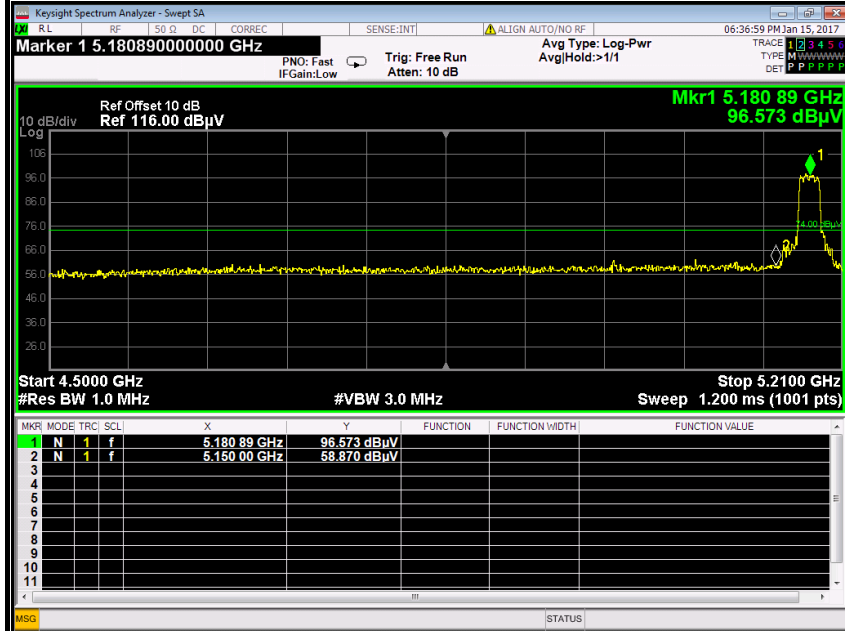
No.	Frequency (MHz)	Reading (dBuV)	Corrected (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna Pole
1	5350.0000	63.63	5.60	58.03	74.00	-15.97	Peak	Horizontal
2	5350.0000	54.05	5.60	48.45	54.00	-5.55	Average	Horizontal



IEEE 802.11n HT 20 MHz mode / 5180 MHz

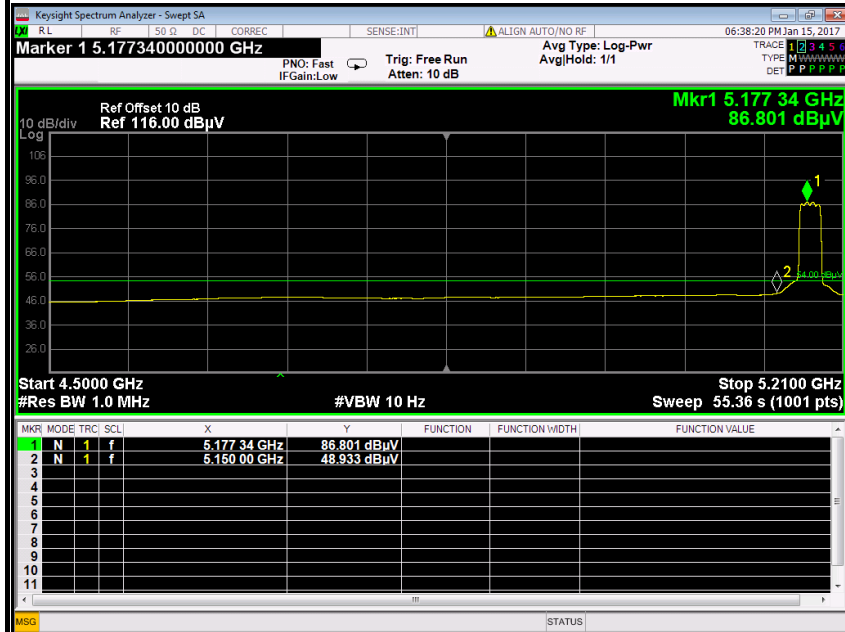
Detector mode: Peak

Polarity: Vertical

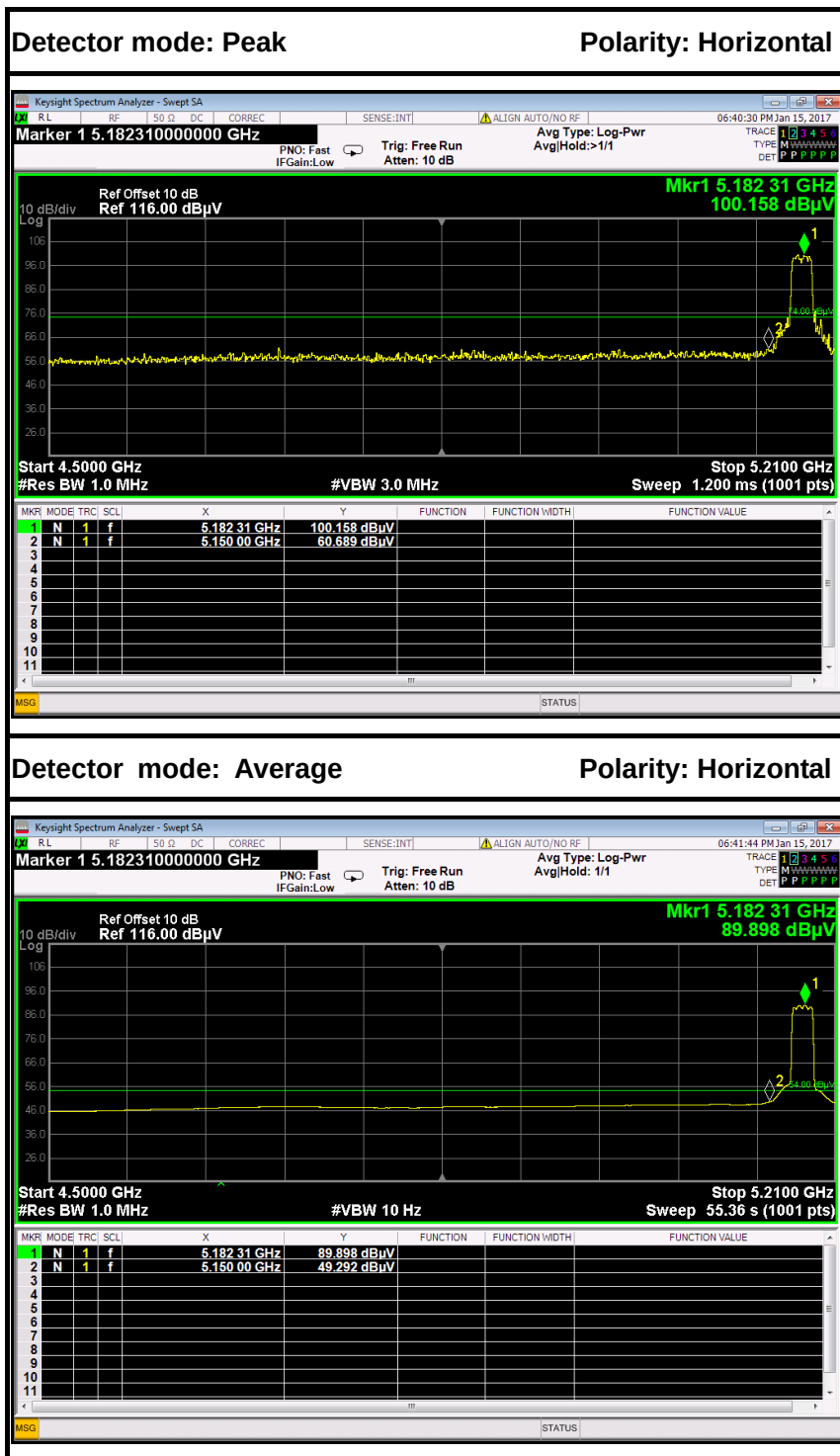


Detector mode: Average

Polarity: Vertical



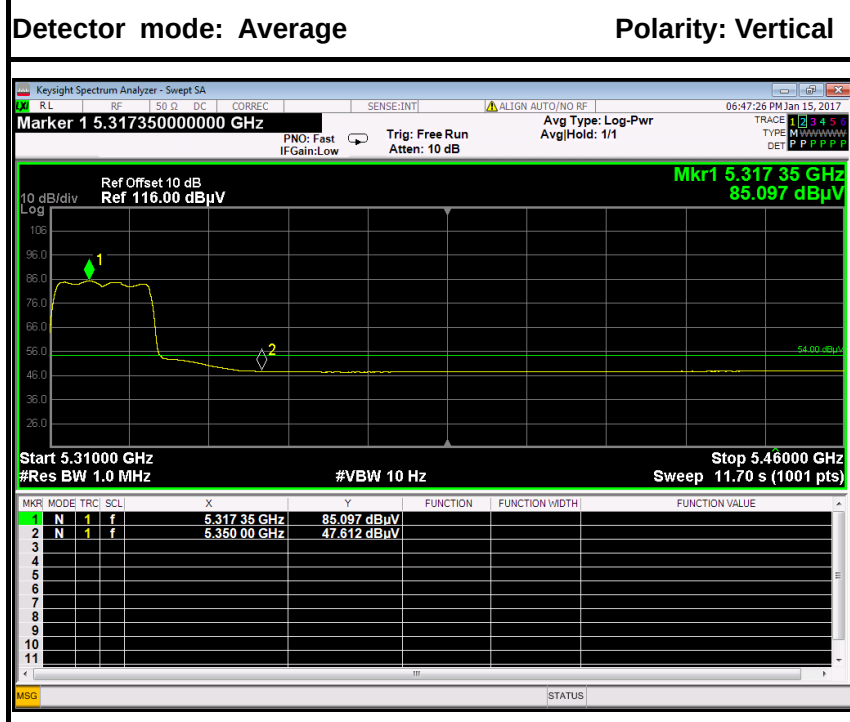
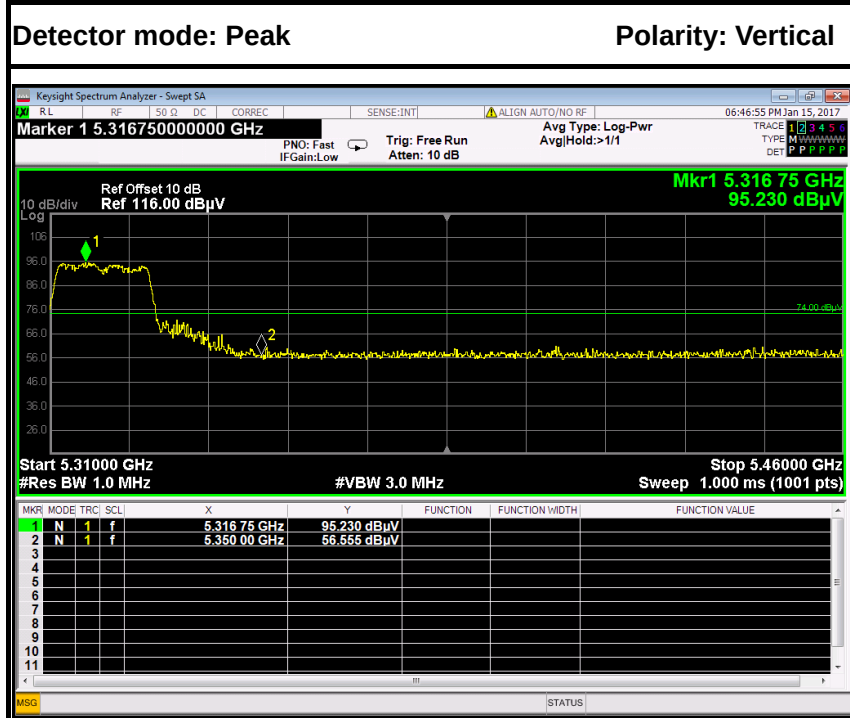
No.	Frequency (MHz)	Reading (dBuV)	Corrected (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna Pole
1	5150.0000	64.47	5.60	58.87	74.00	-15.13	Peak	Vertical
2	5150.0000	54.53	5.60	48.93	54.00	-5.07	Average	Vertical



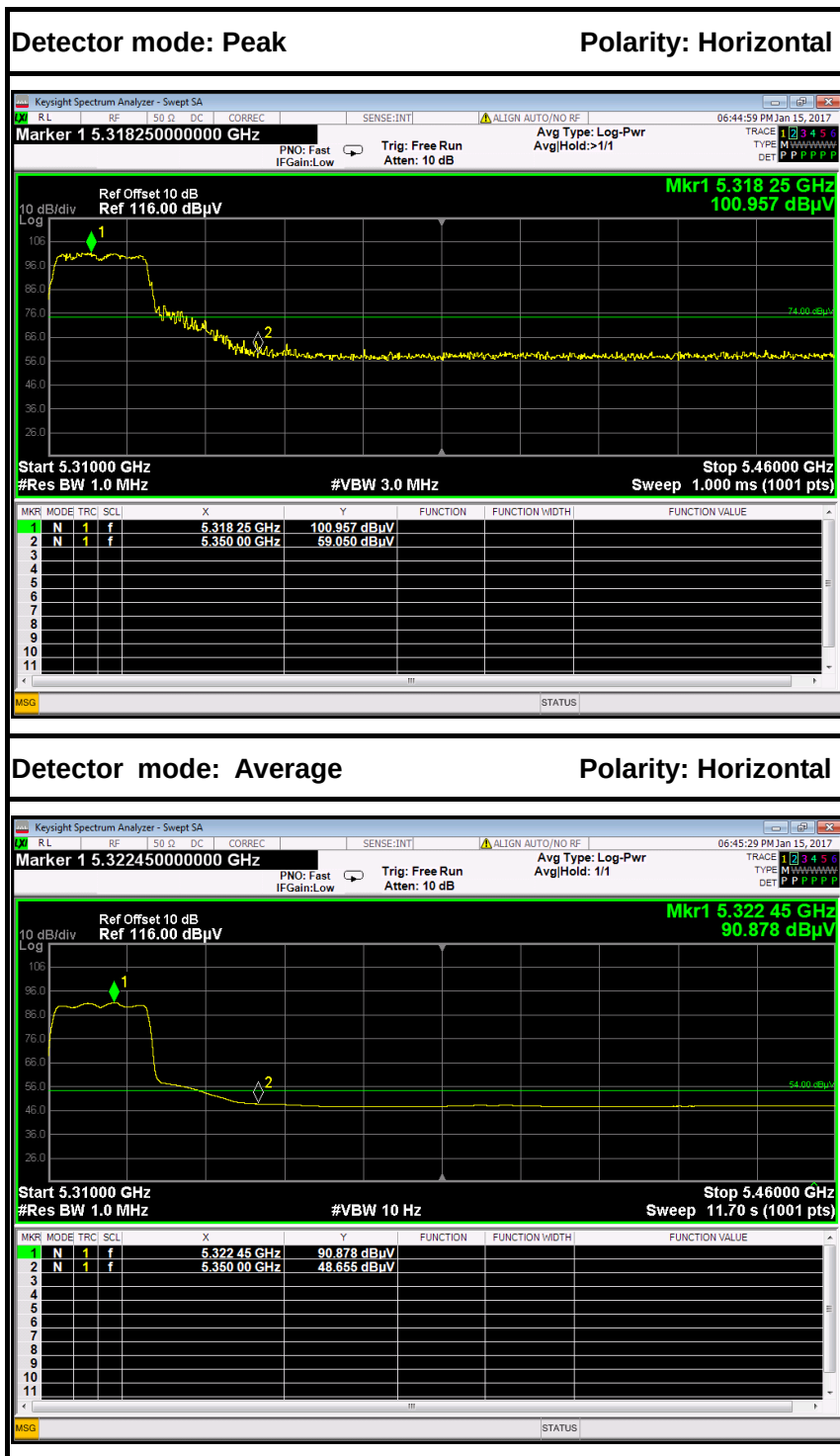
No.	Frequency (MHz)	Reading (dBuV)	Corrected (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna Pole
1	5150.0000	66.29	5.60	60.69	74.00	-13.31	Peak	Horizontal
2	5150.0000	54.89	5.60	49.29	54.00	-4.71	Average	Horizontal



IEEE 802.11n HT 20 MHz mode / 5320 MHz



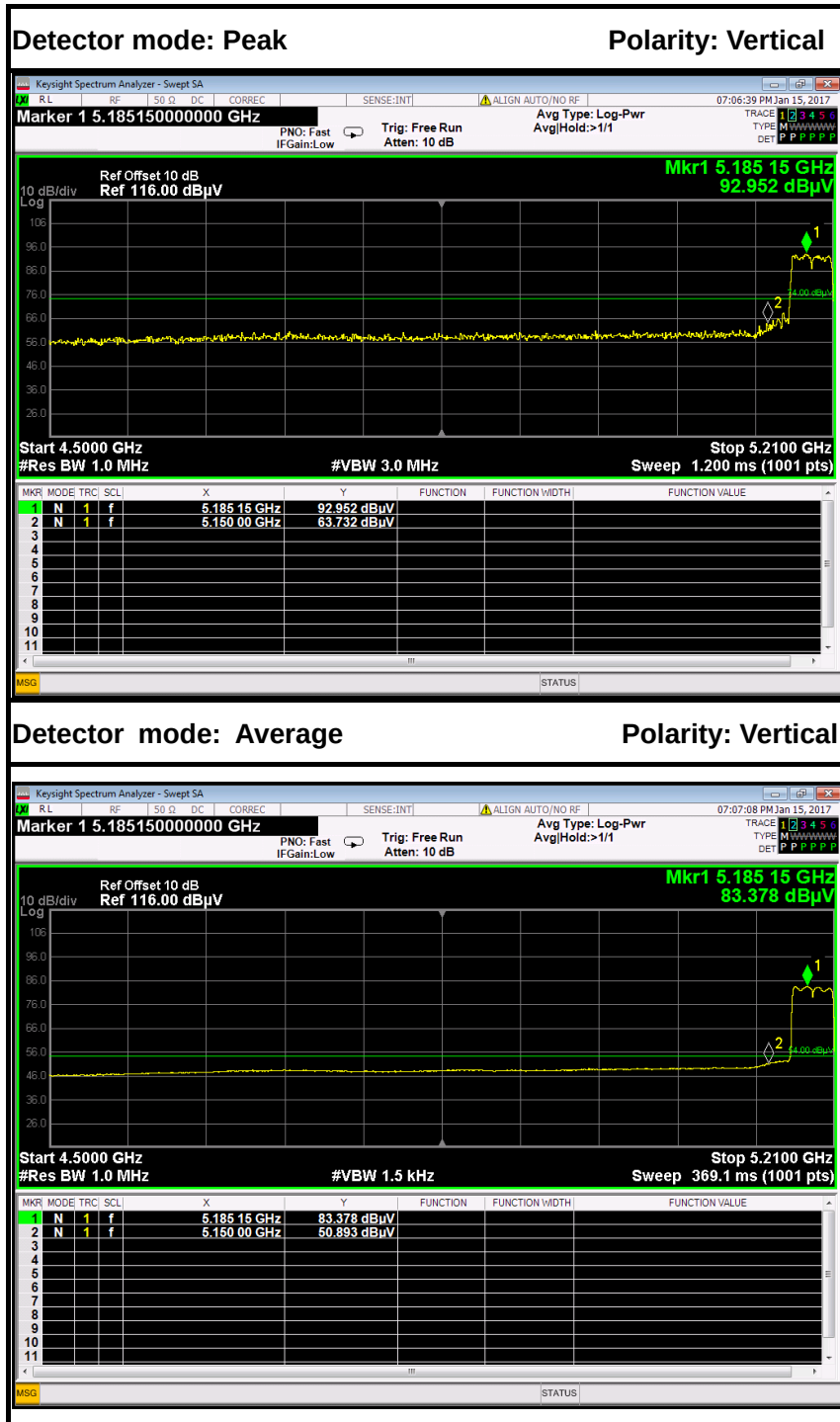
No.	Frequency (MHz)	Reading (dBuV)	Corrected (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna Pole
1	5350.0000	62.16	5.60	56.56	74.00	-17.45	Peak	Vertical
2	5350.0000	53.21	5.60	47.61	54.00	-6.39	Average	Vertical



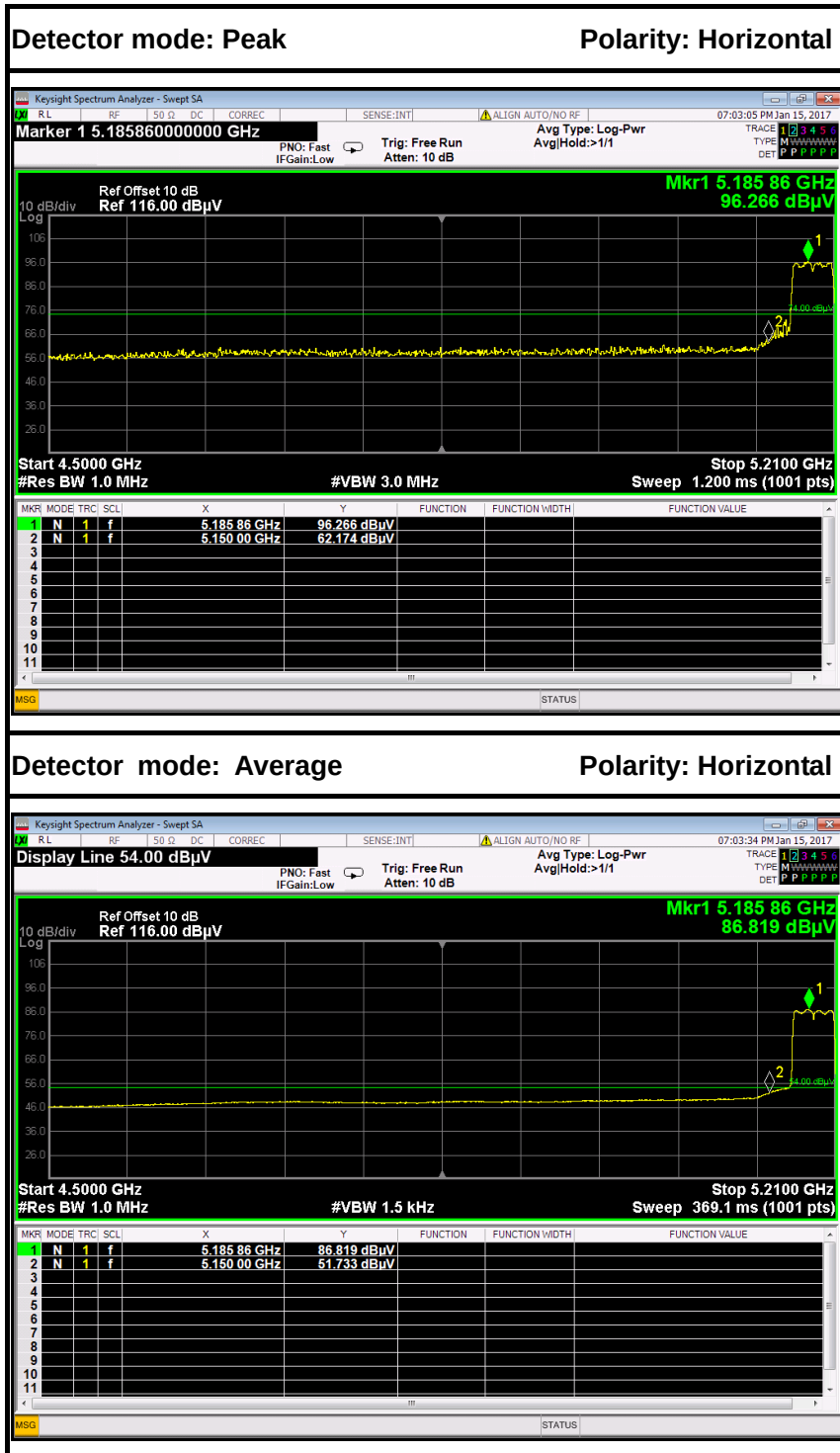
No.	Frequency (MHz)	Reading (dBuV)	Corrected (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna Pole
1	5350.0000	64.65	5.60	59.05	74.00	-14.95	Peak	Horizontal
2	5350.0000	54.26	5.60	48.66	54.00	-5.35	Average	Horizontal



IEEE 802.11n HT 40 MHz mode / 5190 MHz



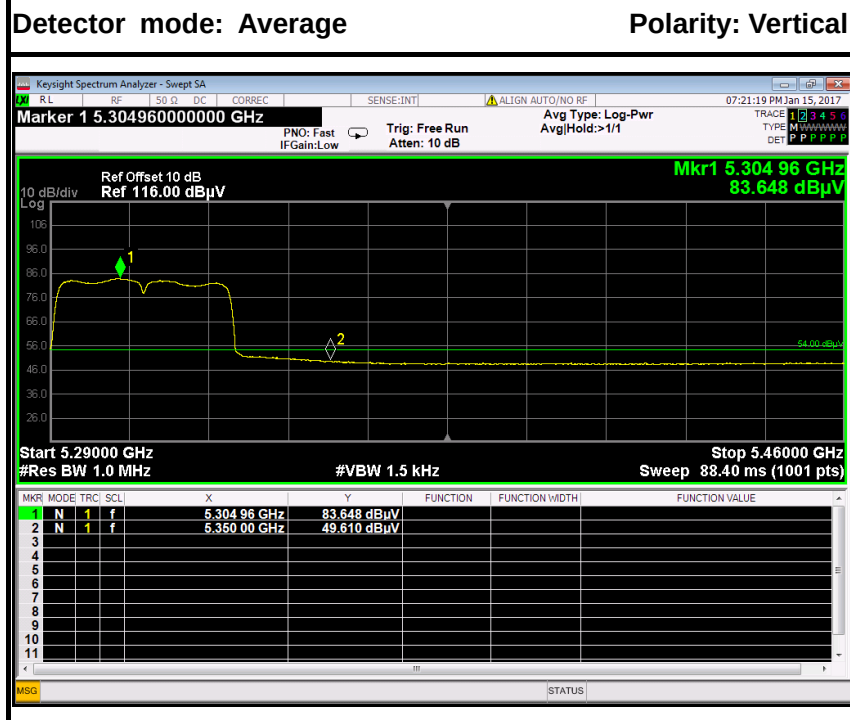
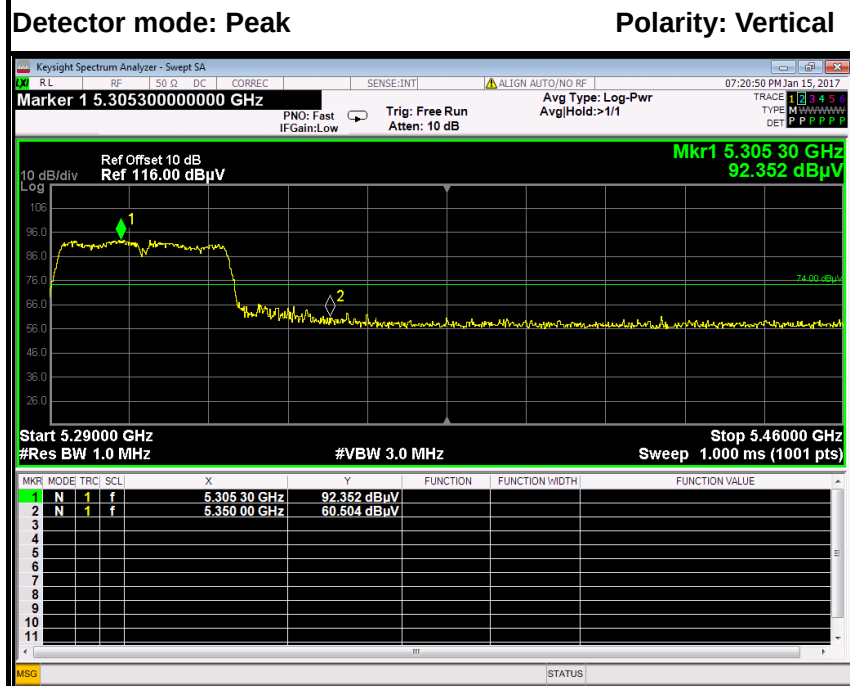
No.	Frequency (MHz)	Reading (dBuV)	Corrected (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna Pole
1	5150.0000	69.33	5.60	63.73	74.00	-10.27	Peak	Vertical
2	5150.0000	56.49	5.60	50.89	54.00	-3.11	Average	Vertical



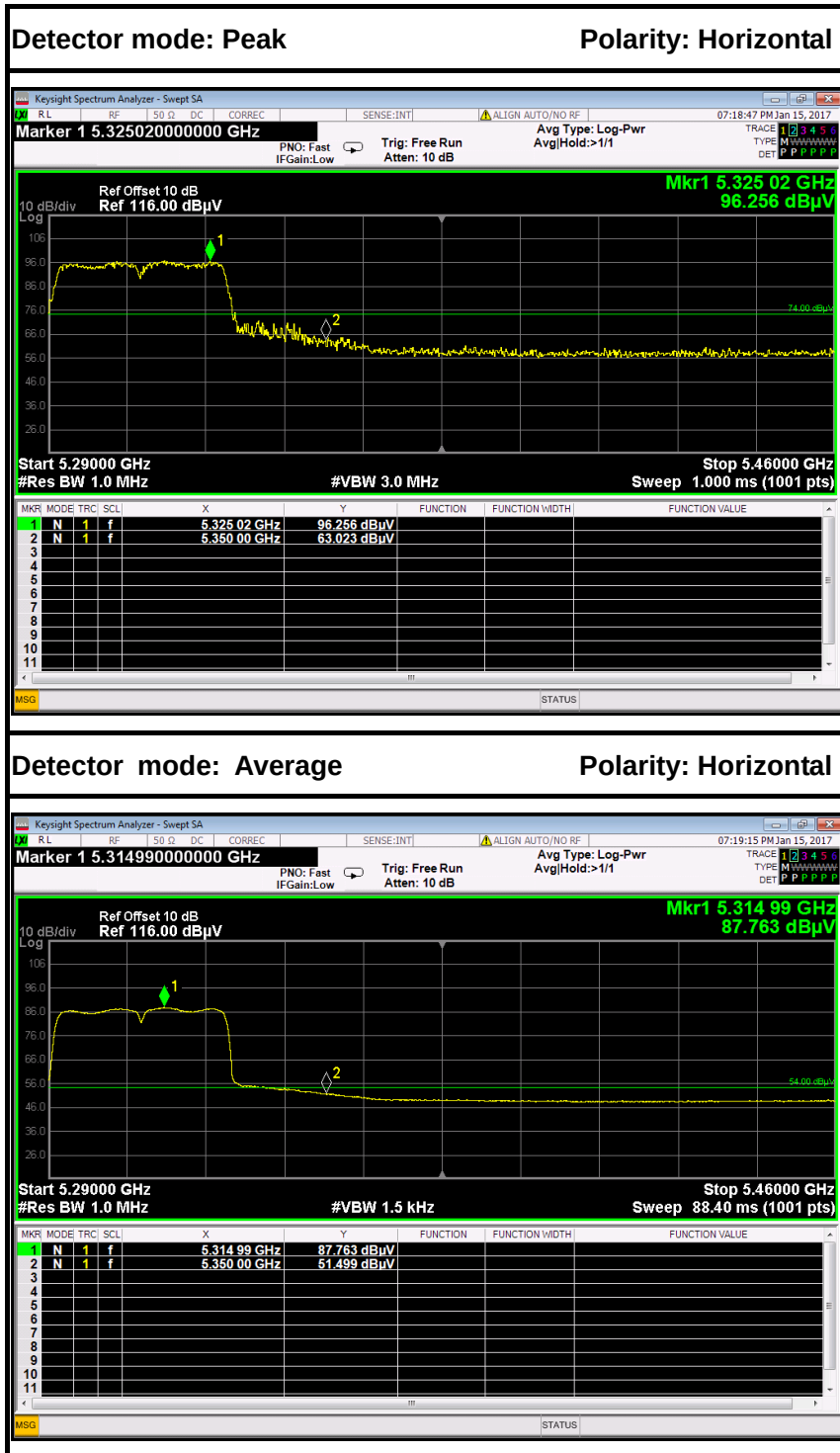
No.	Frequency (MHz)	Reading (dBuV)	Corrected (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna Pole
1	5150.0000	67.77	5.60	62.17	74.00	-11.83	Peak	Horizontal
2	5150.0000	57.33	5.60	51.73	54.00	-2.27	Average	Horizontal



IEEE 802.11n HT 40 MHz mode / 5310 MHz



No.	Frequency (MHz)	Reading (dBuV)	Corrected (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna Pole
1	5350.0000	65.65	5.60	60.05	74.00	-13.95	Peak	Vertical
2	5350.0000	55.21	5.60	49.61	54.00	-4.39	Average	Vertical

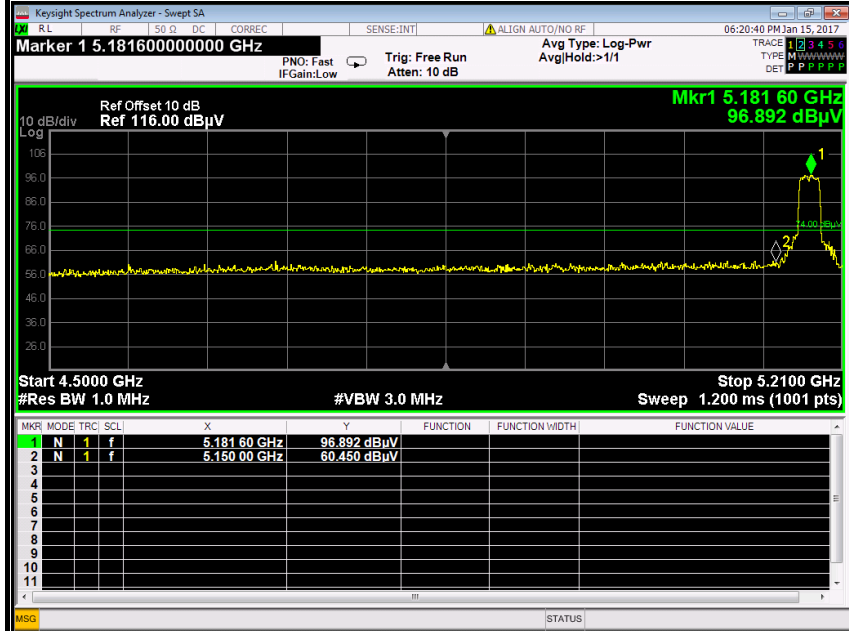


No.	Frequency (MHz)	Reading (dBuV)	Corrected (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna Pole
1	5350.0000	68.62	5.60	63.02	74.00	-10.98	Peak	Horizontal
2	5350.0000	57.10	5.60	51.50	54.00	-2.50	Average	Horizontal

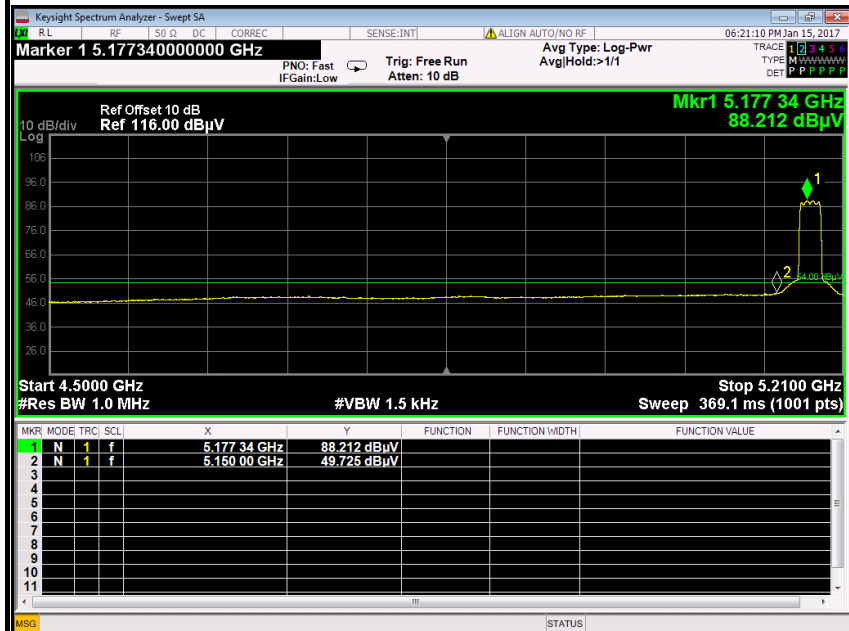


IEEE 802.11ac 20 mode / 5180 MHz

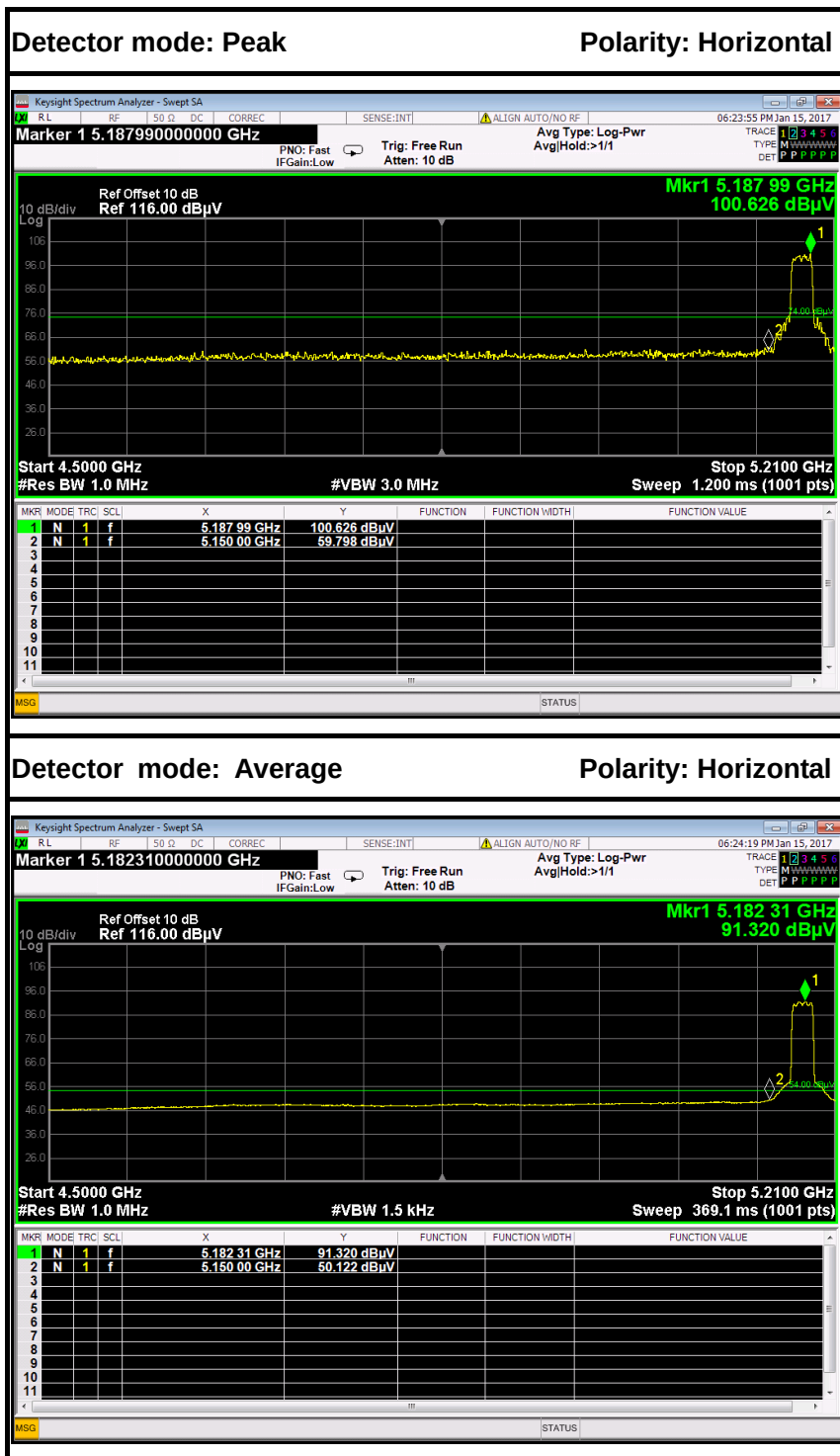
Detector mode: Peak Polarity: Vertical



Detector mode: Average Polarity: Vertical



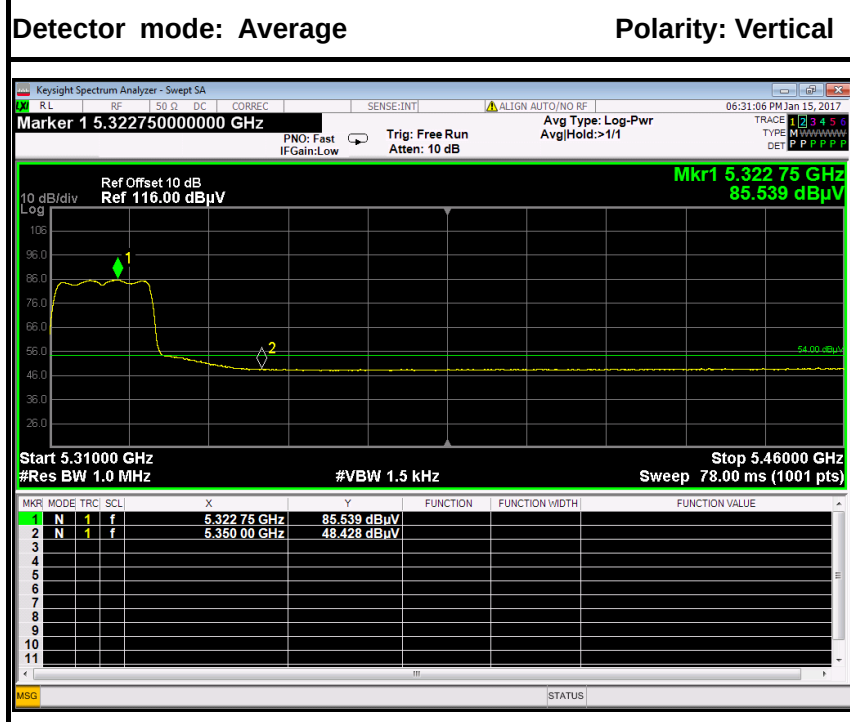
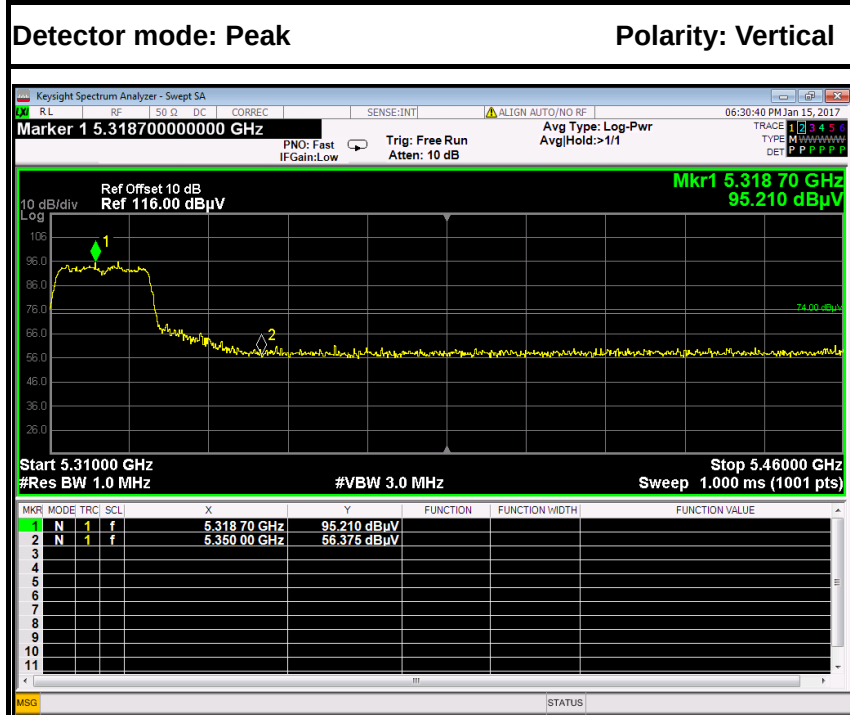
No.	Frequency (MHz)	Reading (dBuV)	Corrected (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna Pole
1	5150.0000	66.05	5.60	60.45	74.00	-13.55	Peak	Vertical
2	5150.0000	55.33	5.60	49.73	54.00	-4.28	Average	Vertical



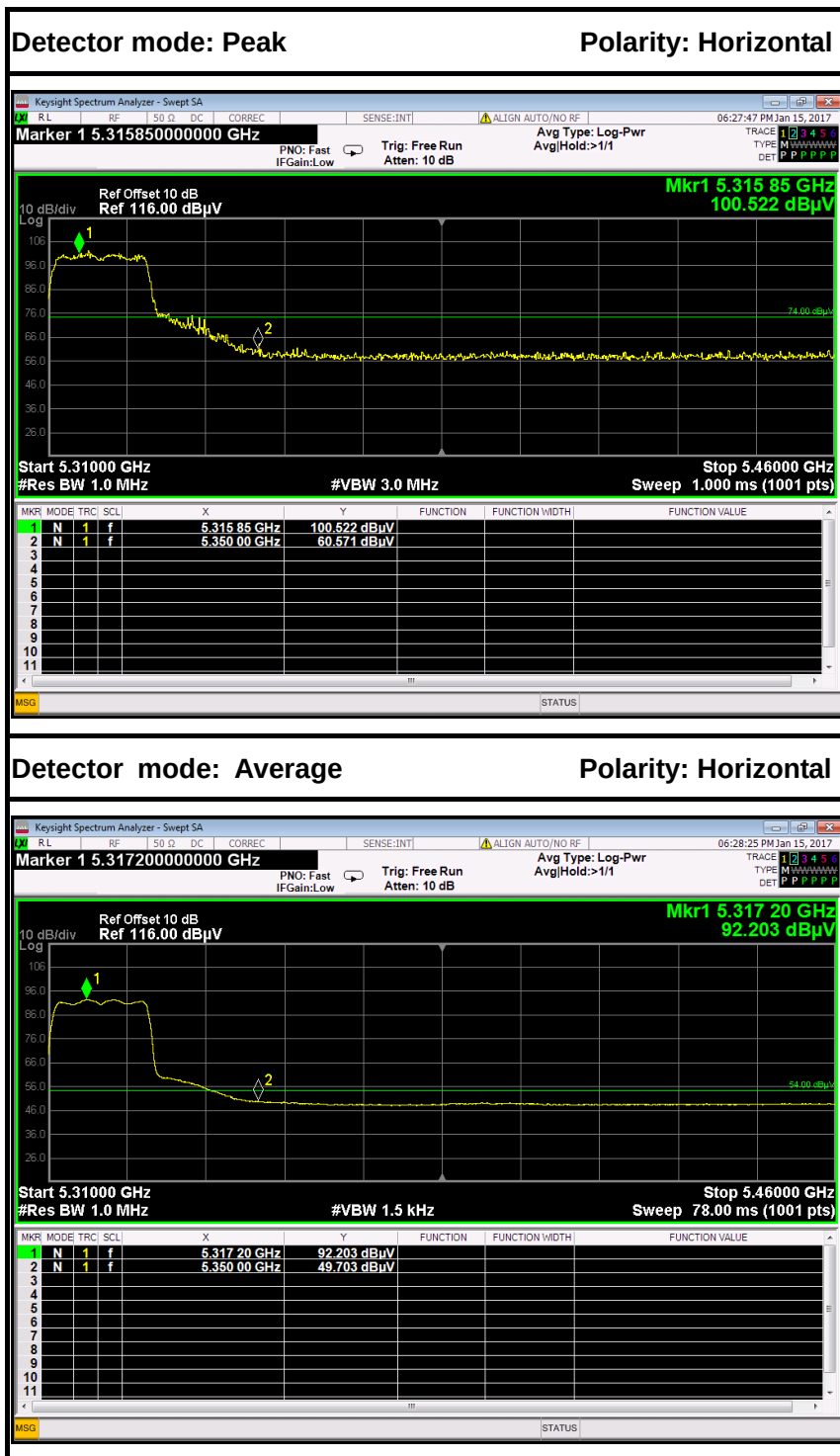
No.	Frequency (MHz)	Reading (dBuV)	Corrected (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna Pole
1	5150.0000	65.40	5.60	59.80	74.00	-14.20	Peak	Horizontal
2	5150.0000	55.72	5.60	50.12	54.00	-3.88	Average	Horizontal



IEEE 802.11ac 20 mode / 5320 MHz



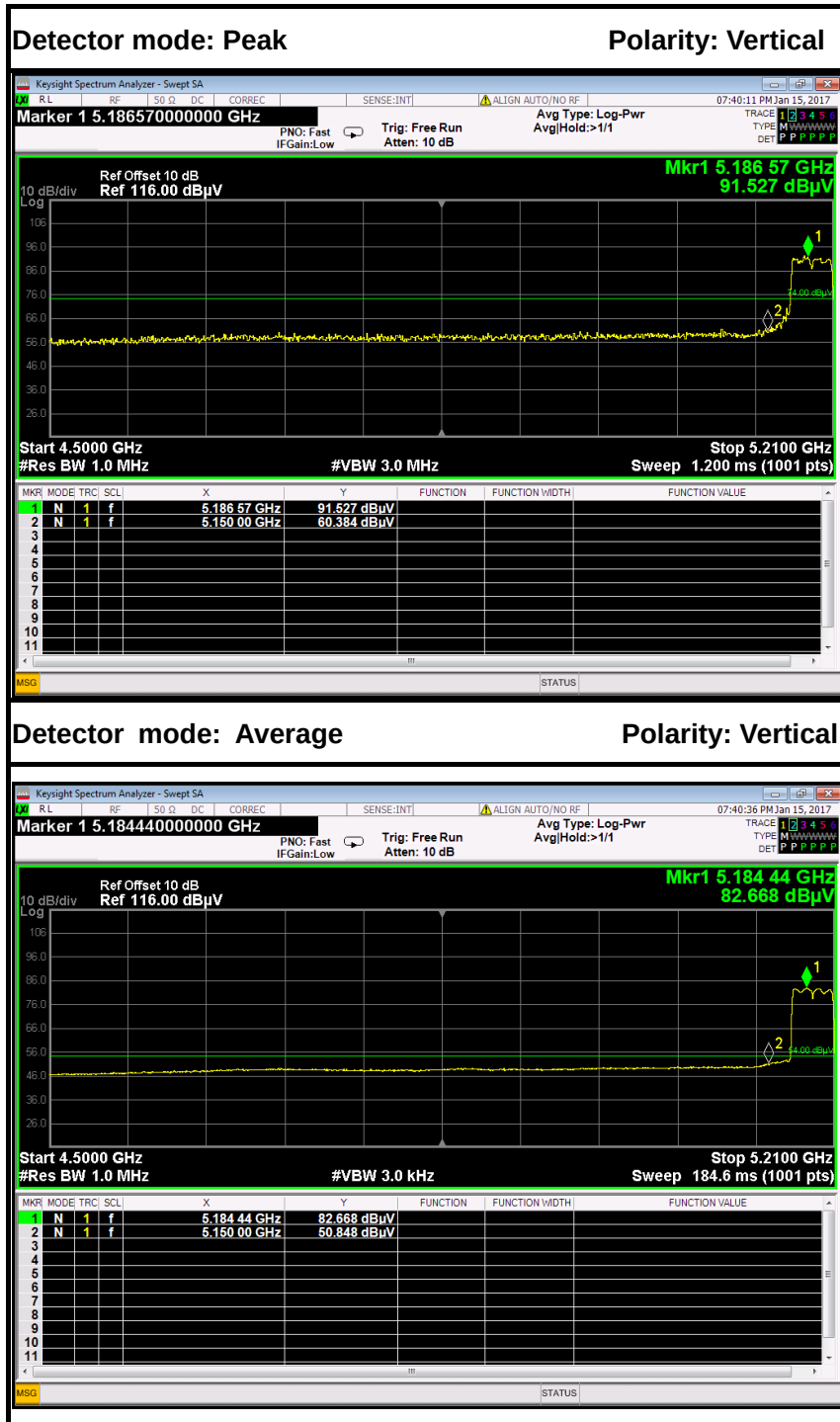
No.	Frequency (MHz)	Reading (dBuV)	Corrected (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna Pole
1	5350.0000	61.98	5.60	56.38	74.00	-17.63	Peak	Vertical
2	5350.0000	54.03	5.60	48.43	54.00	-5.57	Average	Vertical



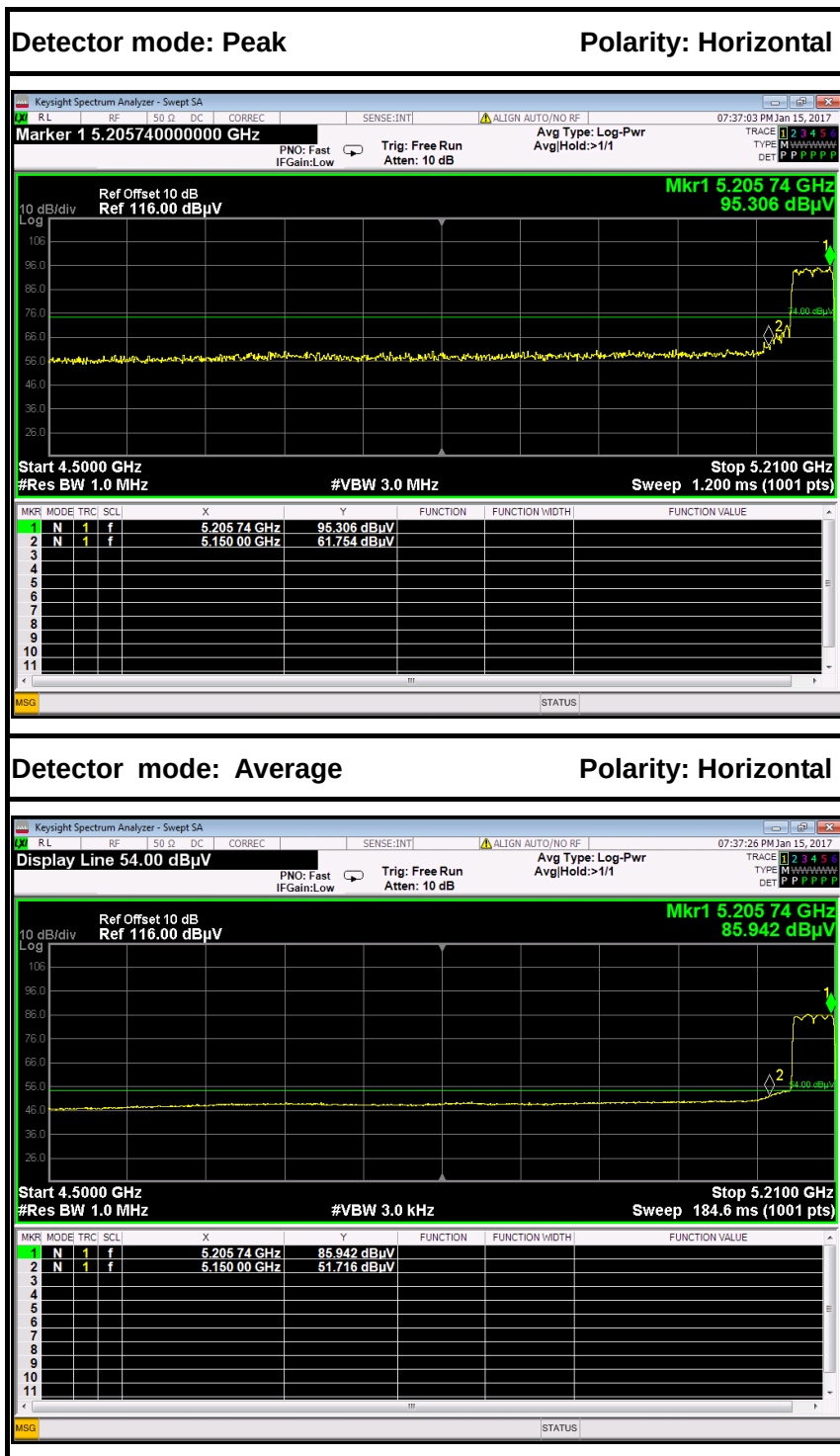
No.	Frequency (MHz)	Reading (dBuV)	Corrected (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna Pole
1	5350.0000	66.17	5.60	60.57	74.00	-13.43	Peak	Horizontal
2	5350.0000	55.30	5.60	49.70	54.00	-4.30	Average	Horizontal



IEEE 802.11ac 40 mode / 5190 MHz



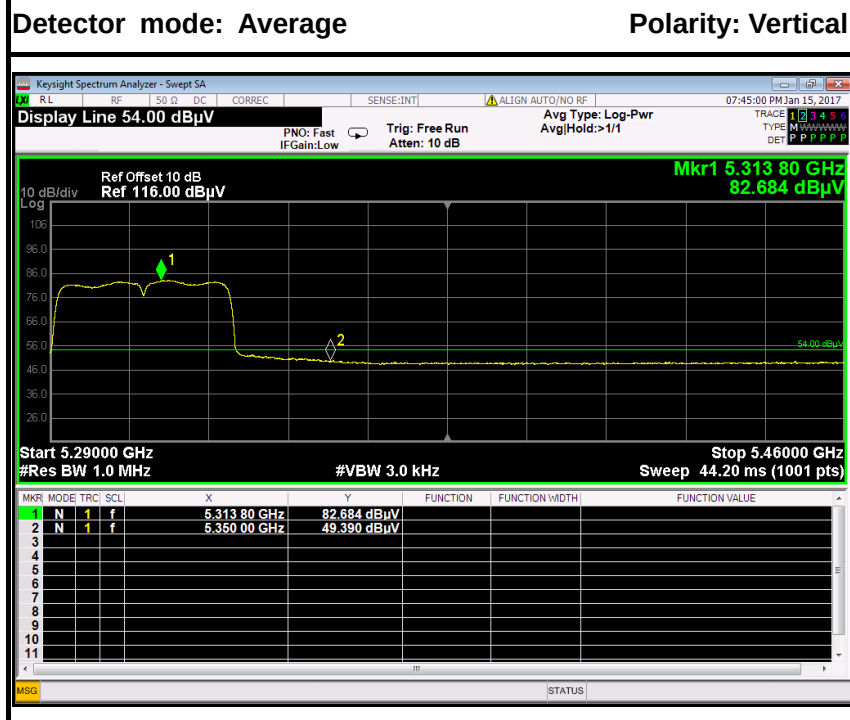
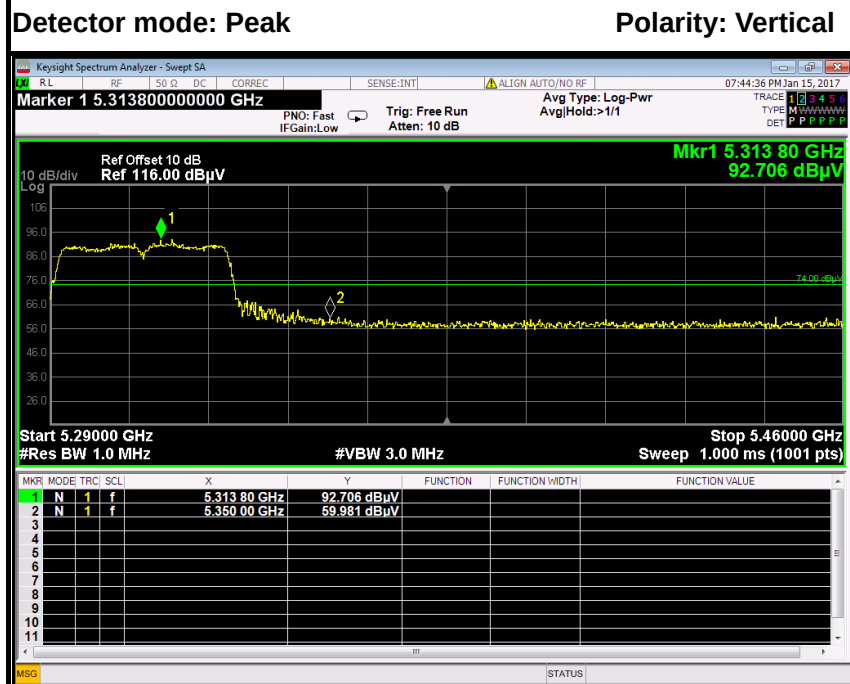
No.	Frequency (MHz)	Reading (dBuV)	Corrected (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna Pole
1	5150.0000	65.98	5.60	60.38	74.00	-13.62	Peak	Vertical
2	5150.0000	56.45	5.60	50.85	54.00	-3.15	Average	Vertical



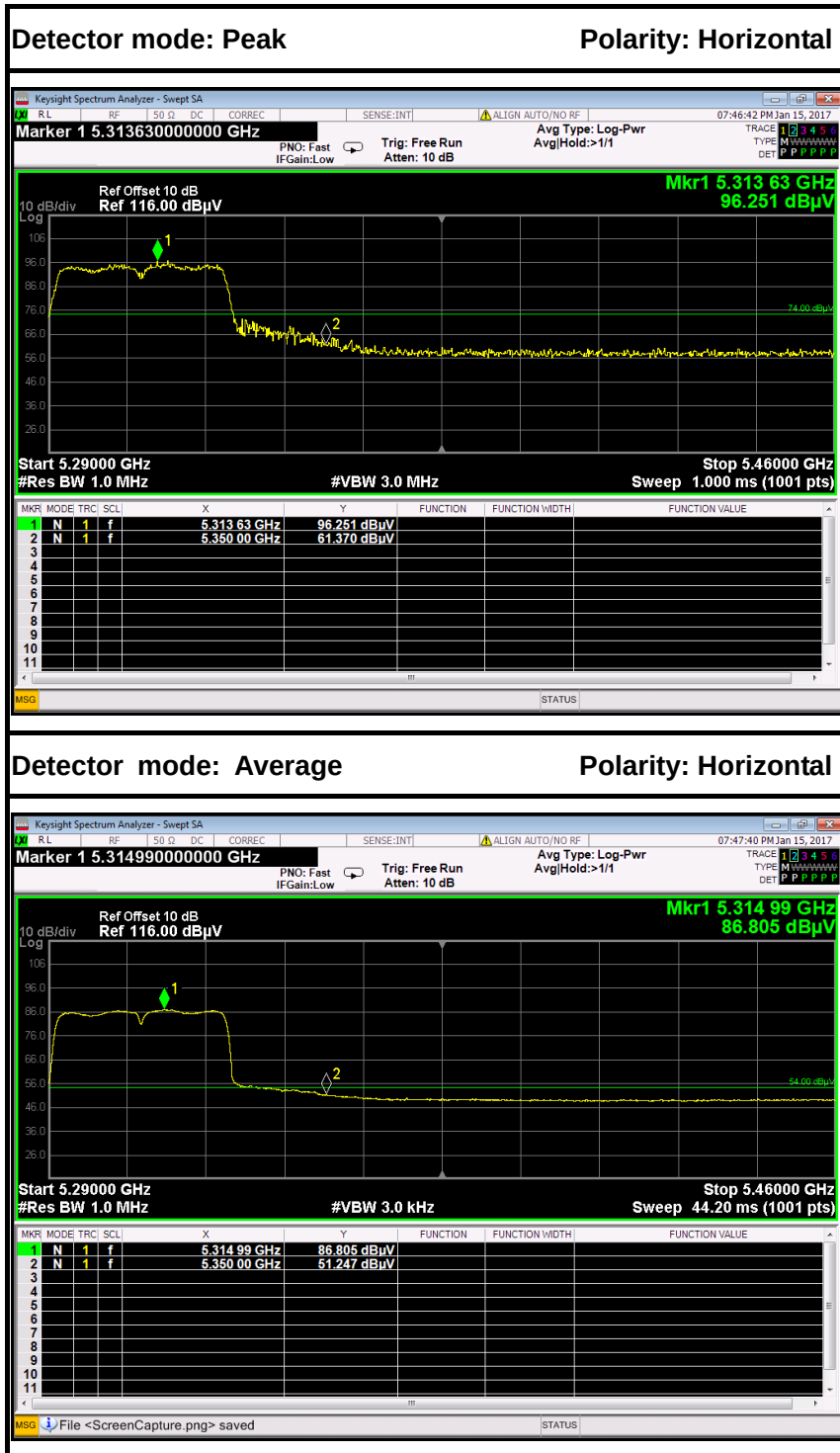
No.	Frequency (MHz)	Reading (dBuV)	Corrected (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna Pole
1	5150.0000	67.35	5.60	61.75	74.00	-12.25	Peak	Horizontal
2	5150.0000	57.32	5.60	51.72	54.00	-2.28	Average	Horizontal



IEEE 802.11ac 40 mode / 5310 MHz



No.	Frequency (MHz)	Reading (dBuV)	Corrected (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna Pole
1	5350.0000	65.58	5.60	59.98	74.00	-14.02	Peak	Vertical
2	5350.0000	54.99	5.60	49.39	54.00	-4.61	Average	Vertical



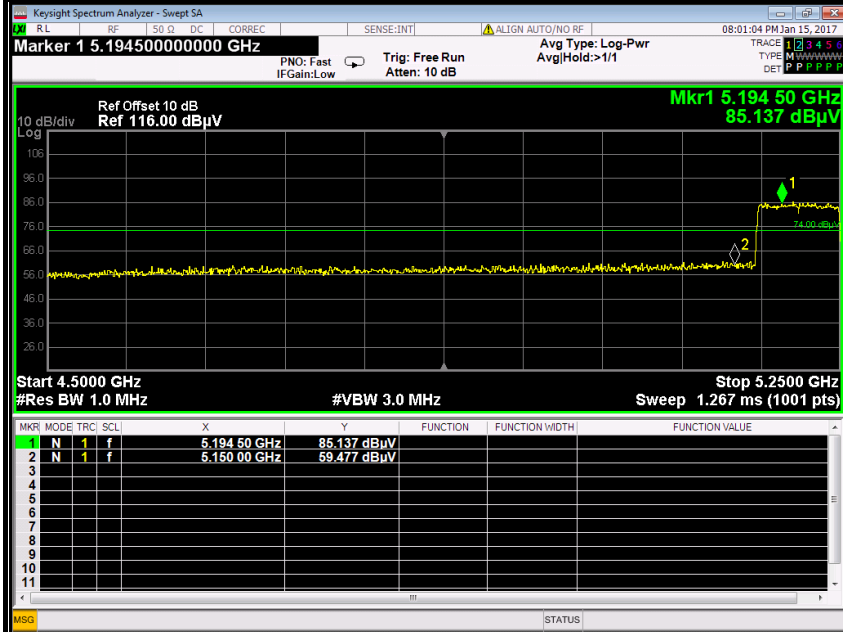
No.	Frequency (MHz)	Reading (dBuV)	Corrected (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna Pole
1	5350.0000	66.97	5.60	61.37	74.00	-12.63	Peak	Horizontal
2	5350.0000	56.85	5.60	51.25	54.00	-2.75	Average	Horizontal



IEEE 802.11ac 80 mode / 5210 MHz

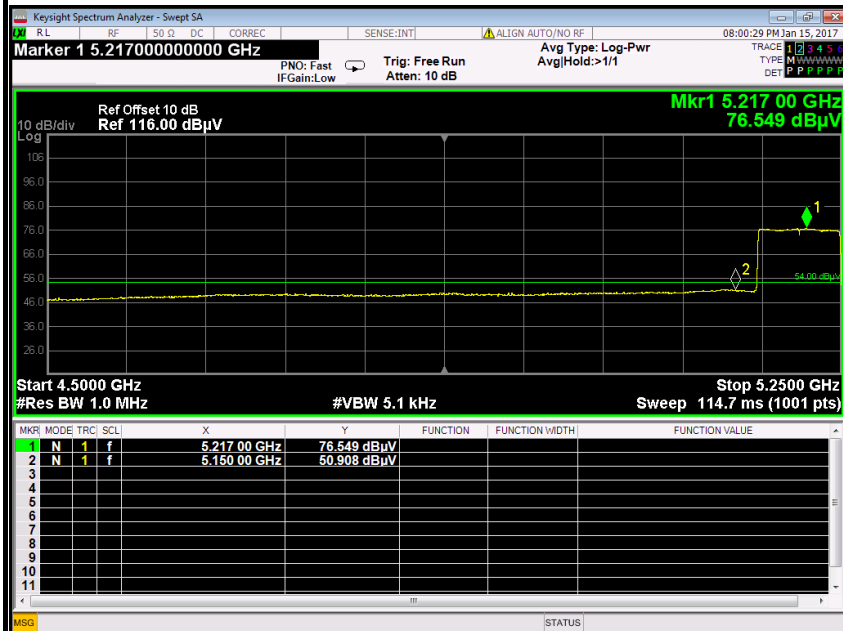
Detector mode: Peak

Polarity: Vertical

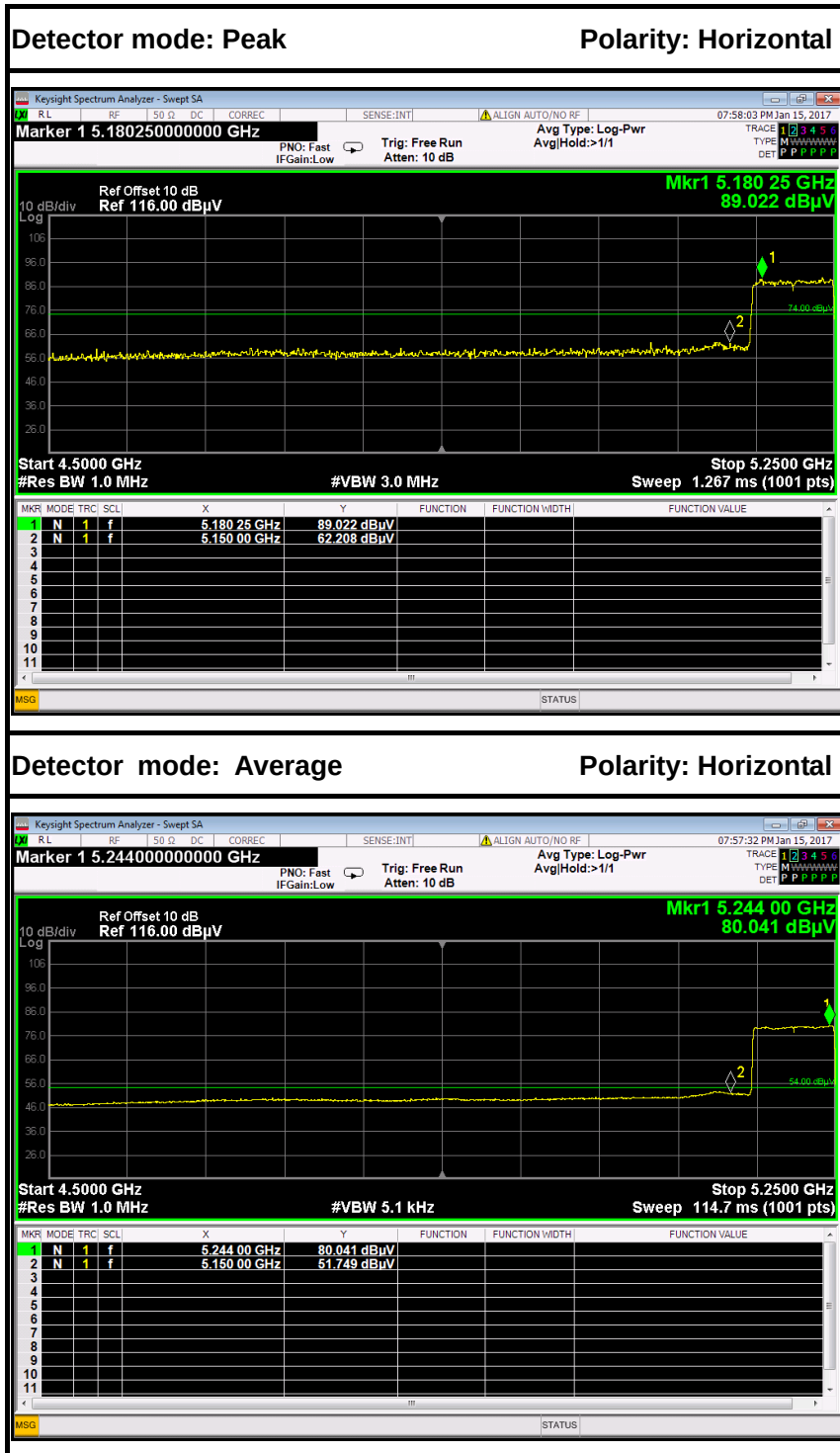


Detector mode: Average

Polarity: Vertical



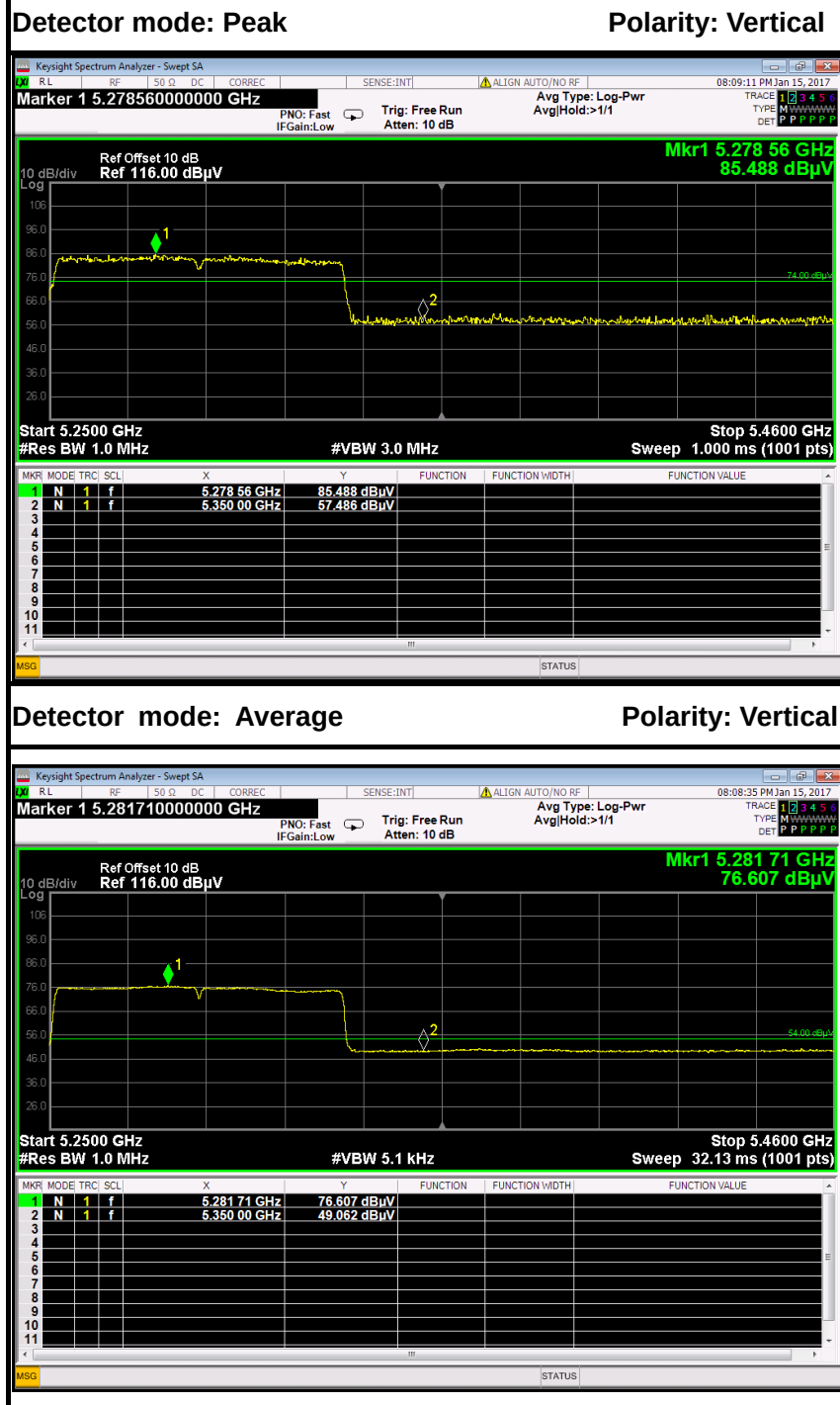
No.	Frequency (MHz)	Reading (dBuV)	Corrected (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna Pole
1	5150.0000	65.08	5.60	59.48	74.00	-14.52	Peak	Vertical
2	5150.0000	56.51	5.60	50.91	54.00	-3.09	Average	Vertical



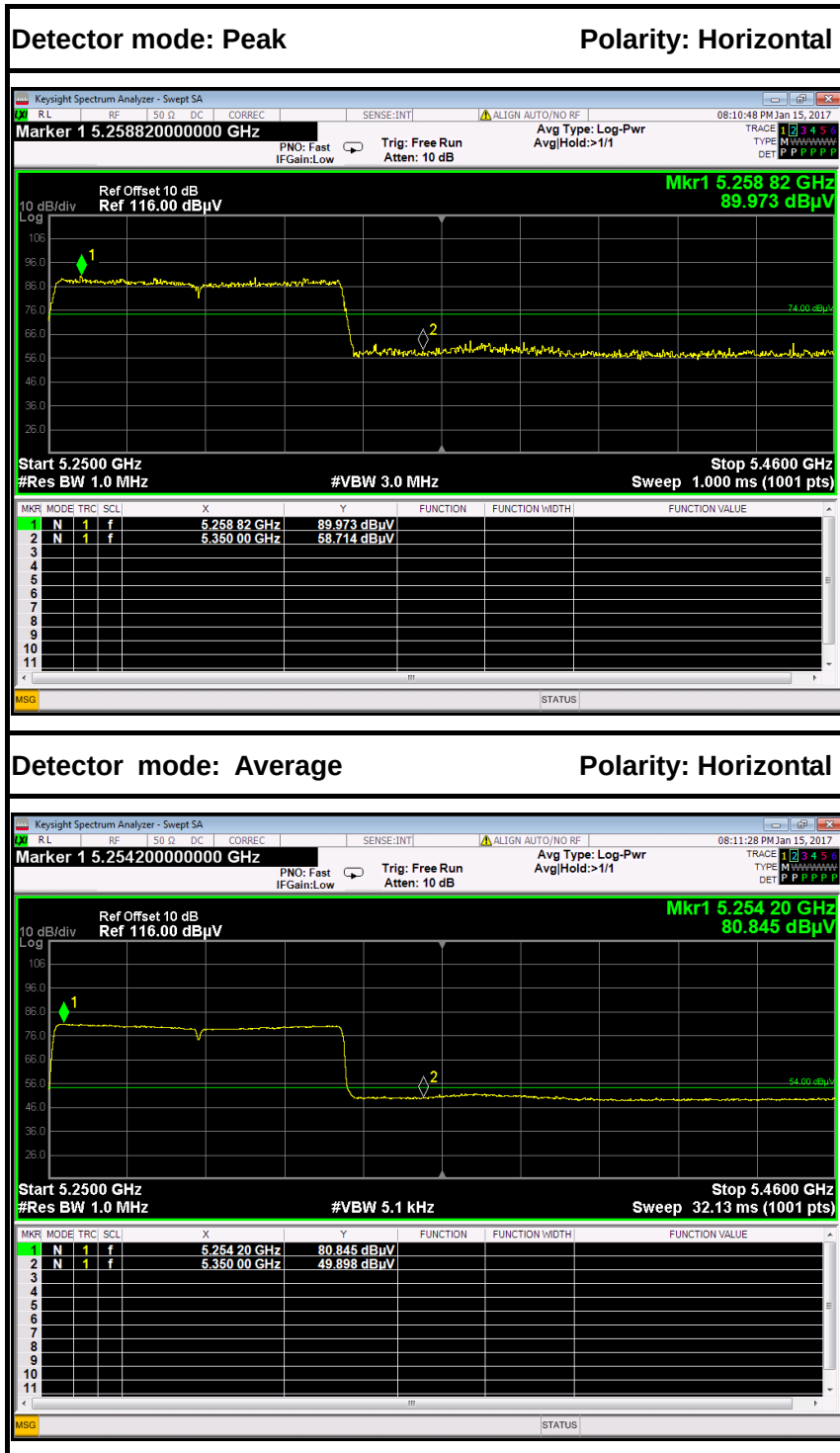
No.	Frequency (MHz)	Reading (dBuV)	Corrected (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna Pole
1	5150.0000	67.81	5.60	62.21	74.00	-11.79	Peak	Horizontal
2	5150.0000	57.35	5.60	51.75	54.00	-2.25	Average	Horizontal



IEEE 802.11ac 80 mode / 5290 MHz



No.	Frequency (MHz)	Reading (dBuV)	Corrected (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna Pole
1	5350.0000	63.09	5.60	57.49	74.00	-16.51	Peak	Vertical
2	5350.0000	54.66	5.60	49.06	54.00	-4.94	Average	Vertical



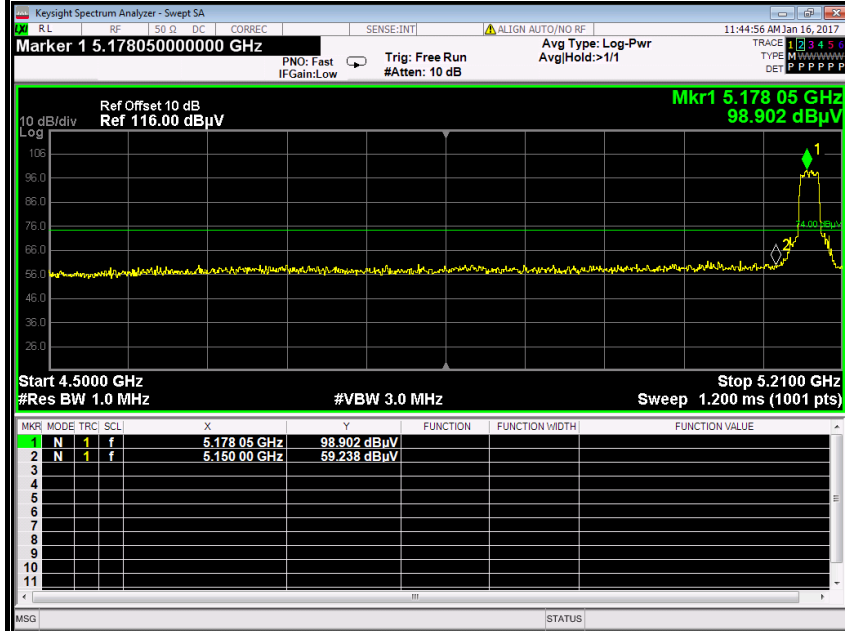
No.	Frequency (MHz)	Reading (dBuV)	Corrected (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna Pole
1	5350.0000	64.31	5.60	58.71	74.00	-15.29	Peak	Horizontal
2	5350.0000	55.50	5.60	49.90	54.00	-4.10	Average	Horizontal



Antenna 2 Test Plot
IEEE 802.11a mode / 5180MHz

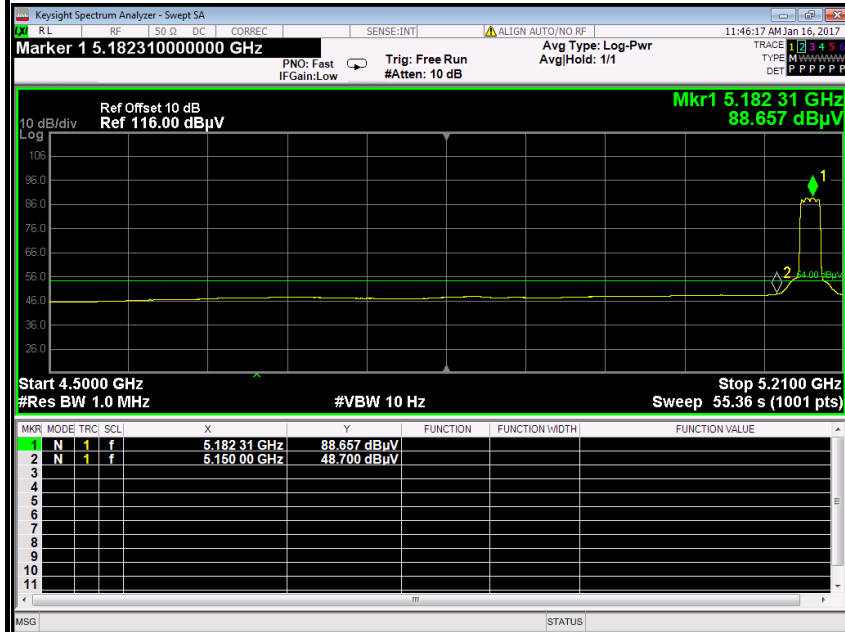
Detector mode: Peak

Polarity: Vertical

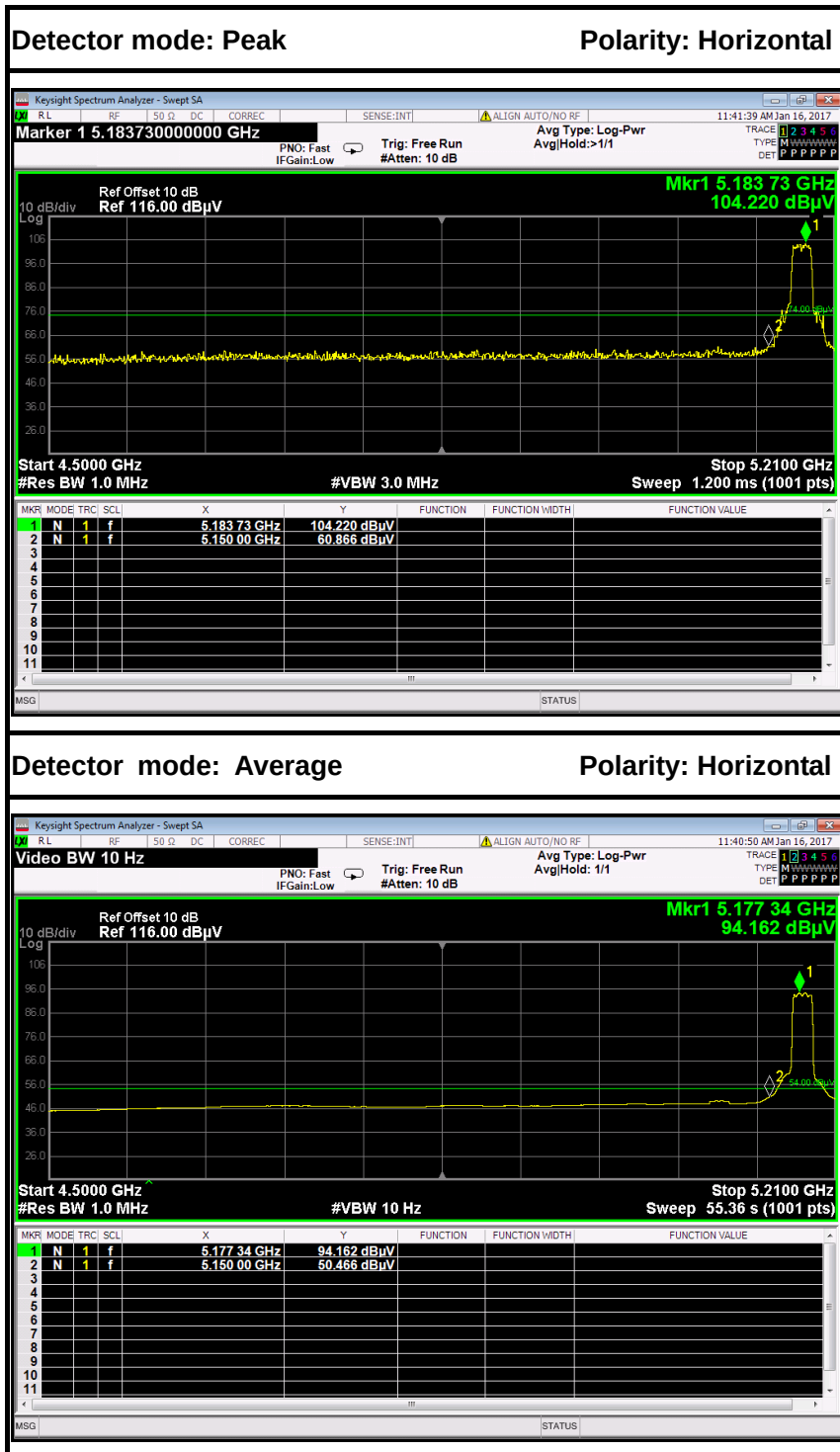


Detector mode: Average

Polarity: Vertical



No.	Frequency (MHz)	Reading (dBuV)	Corrected (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna Pole
1	5150.0000	64.84	5.60	59.24	74.00	-14.76	Peak	Vertical
2	5150.0000	54.30	5.60	48.70	54.00	-5.30	Average	Vertical



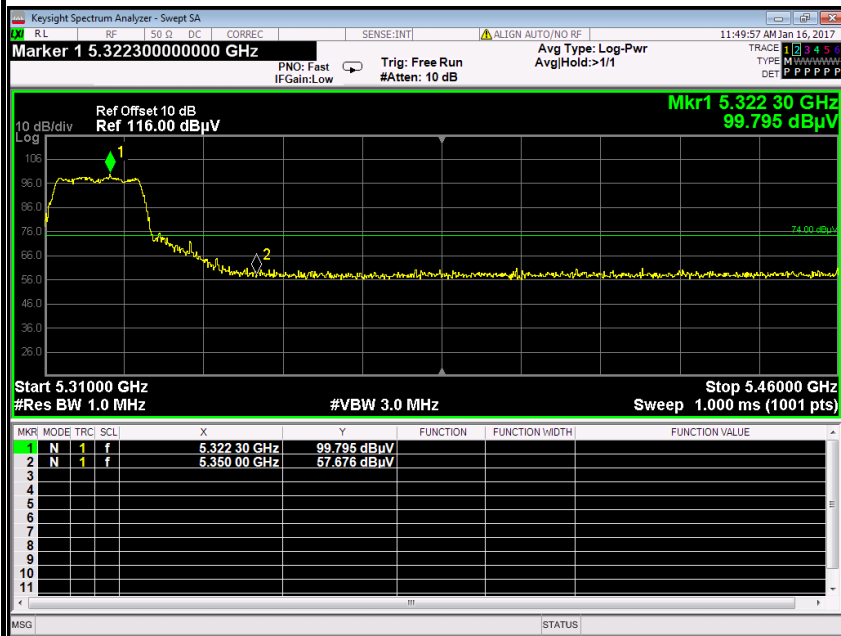
No.	Frequency (MHz)	Reading (dBuV)	Corrected (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna Pole
1	5350.0000	66.47	5.60	60.87	74.00	-13.13	Peak	Vertical
2	5350.0000	56.07	5.60	50.47	54.00	-3.53	Average	Vertical



IEEE 802.11a mode / 5320MHz

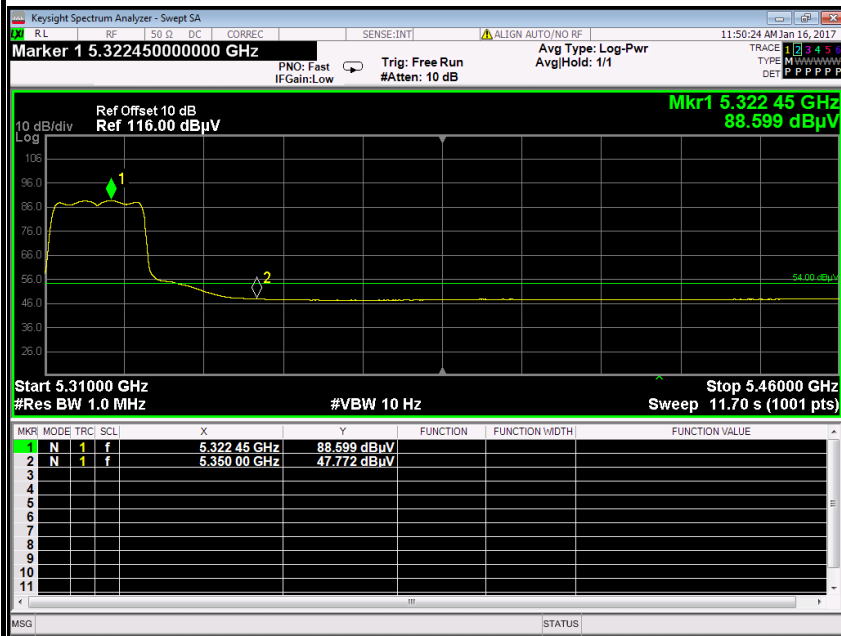
Detector mode: Peak

Polarity: Vertical

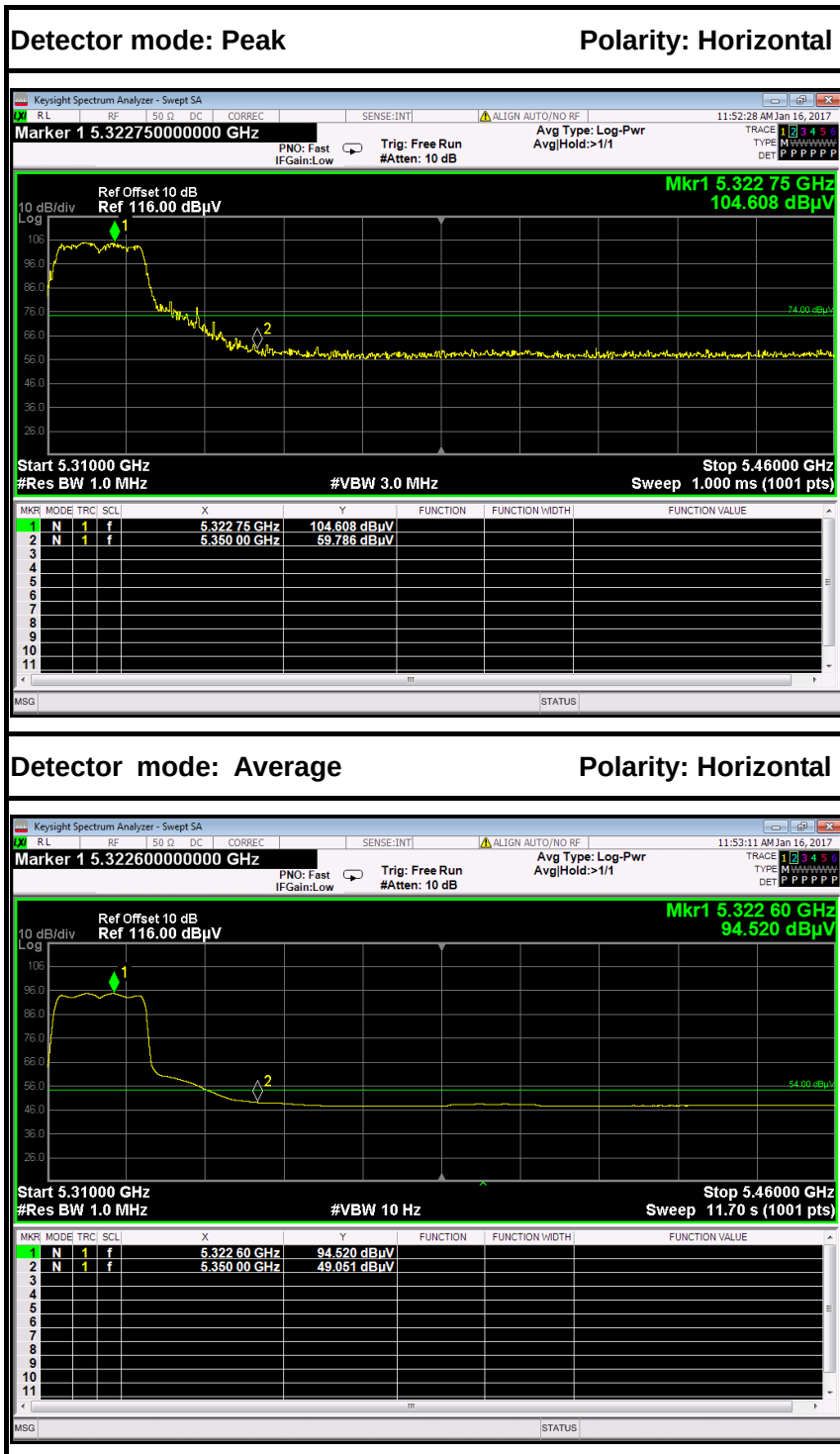


Detector mode: Average

Polarity: Vertical



No.	Frequency (MHz)	Reading (dBuV)	Corrected (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna Pole
1	5350.0000	63.28	5.60	57.68	74.00	-16.32	Peak	Vertical
2	5350.0000	53.37	5.60	47.77	54.00	-6.23	Average	Vertical



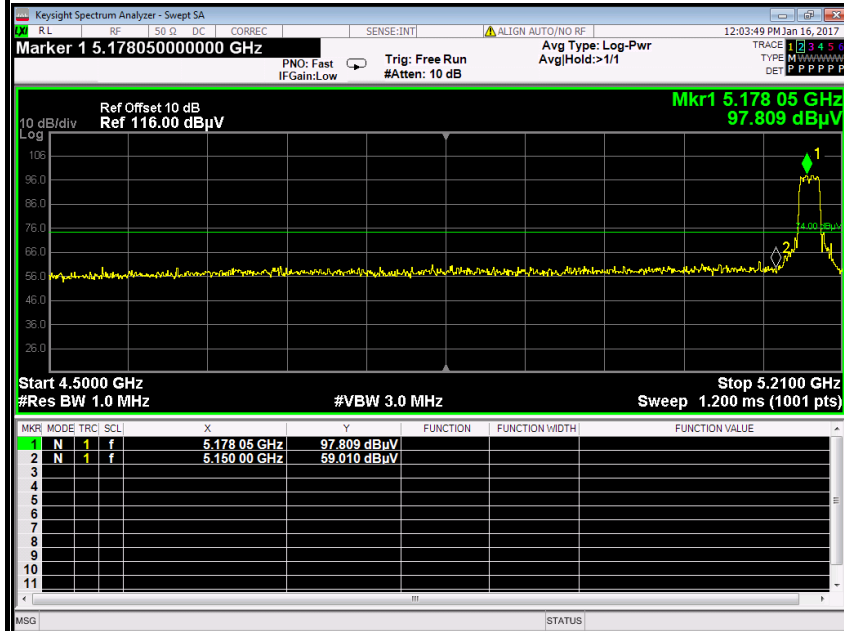
No.	Frequency (MHz)	Reading (dBuV)	Corrected (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna Pole
1	5350.0000	65.39	5.60	59.79	74.00	-14.21	Peak	Horizontal
2	5350.0000	54.65	5.60	49.05	54.00	-4.95	Average	Horizontal



IEEE 802.11n HT 20 MHz mode / 5180 MHz

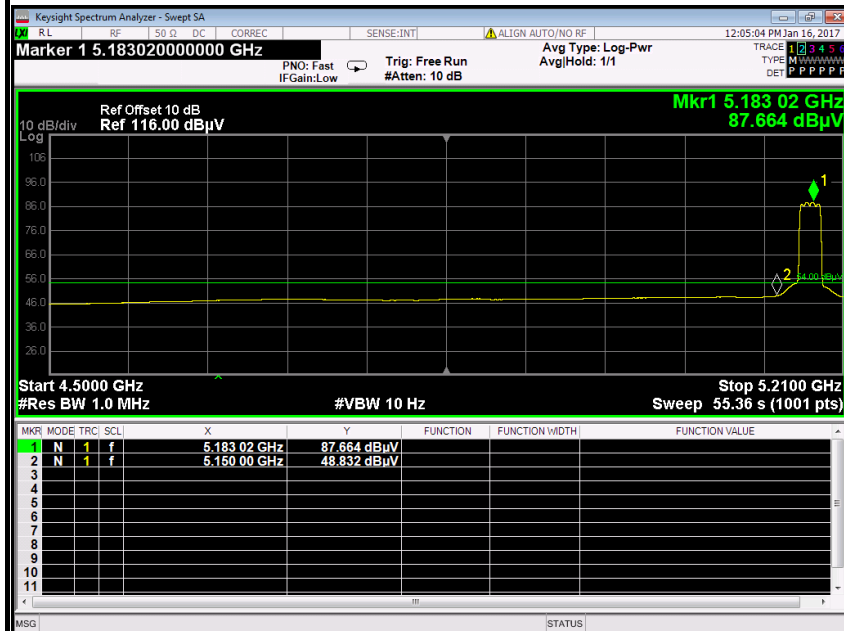
Detector mode: Peak

Polarity: Vertical



Detector mode: Average

Polarity: Vertical



No.	Frequency (MHz)	Reading (dBuV)	Corrected (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna Pole
1	5150.0000	64.61	5.60	59.01	74.00	-14.99	Peak	Vertical
2	5150.0000	54.43	5.60	48.83	54.00	-5.17	Average	Vertical