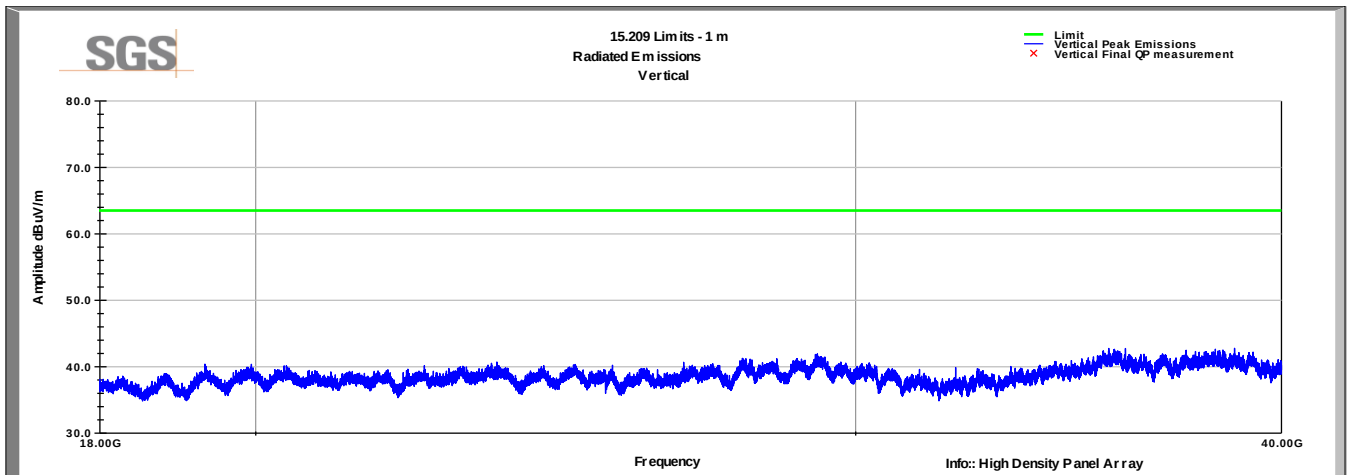
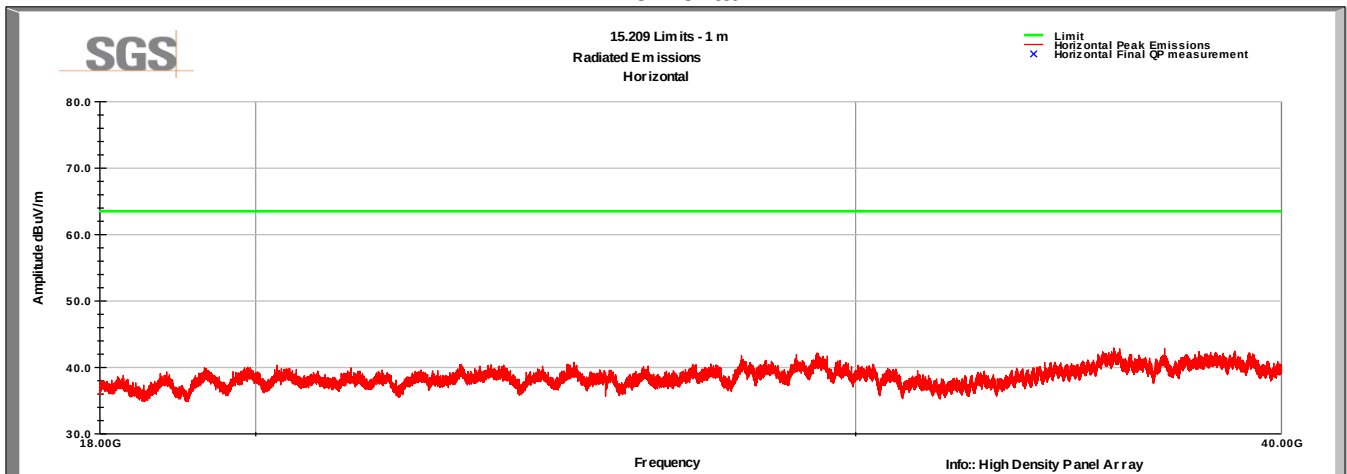


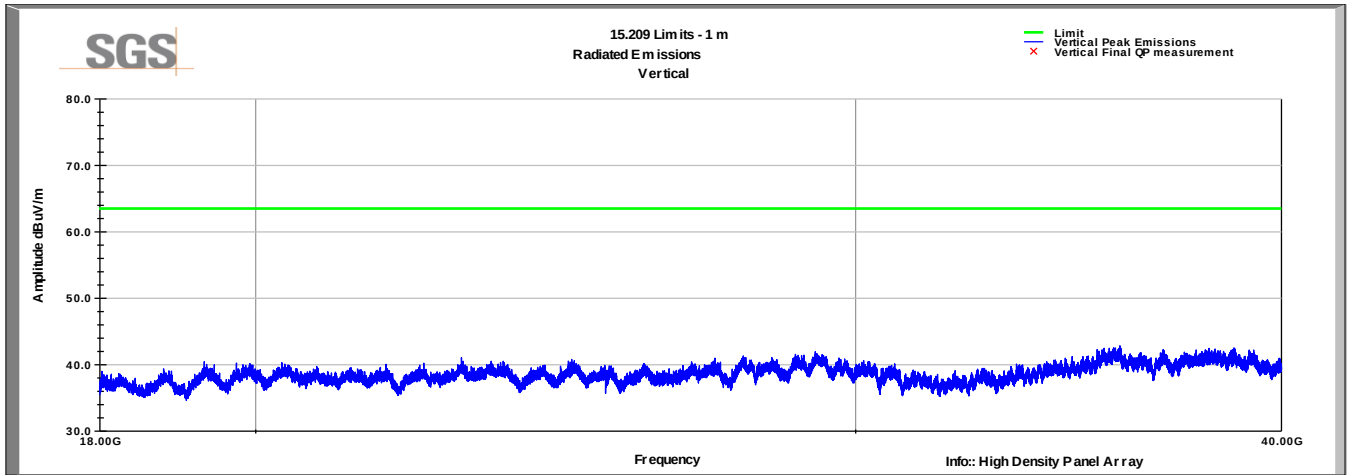
CH 149 6MB/s Vertical



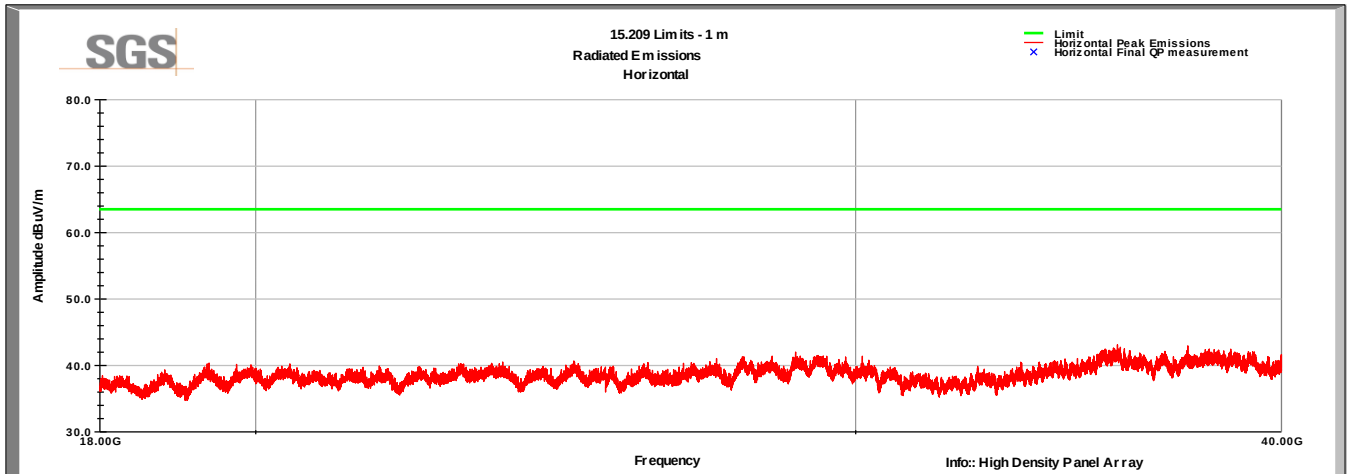
Horizontal



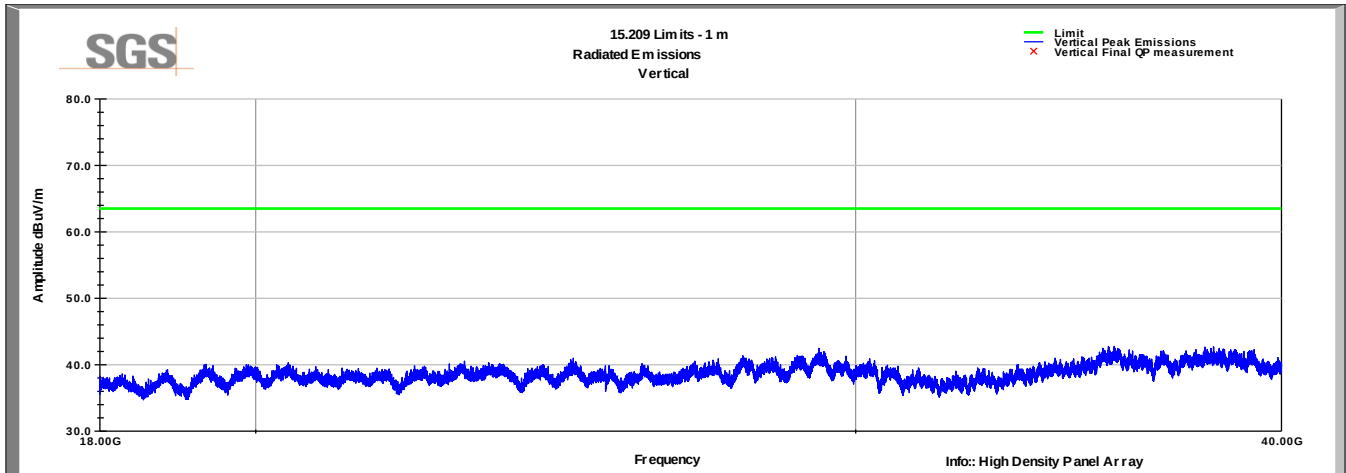
CH 153 6MB/s Vertical



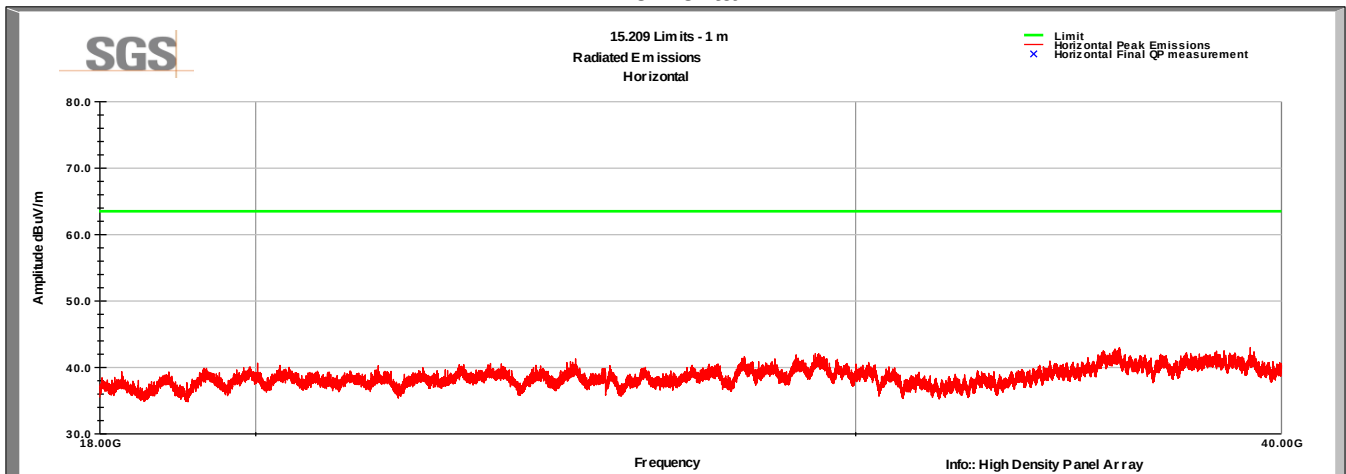
Horizontal



CH 161 6MB/s Vertical



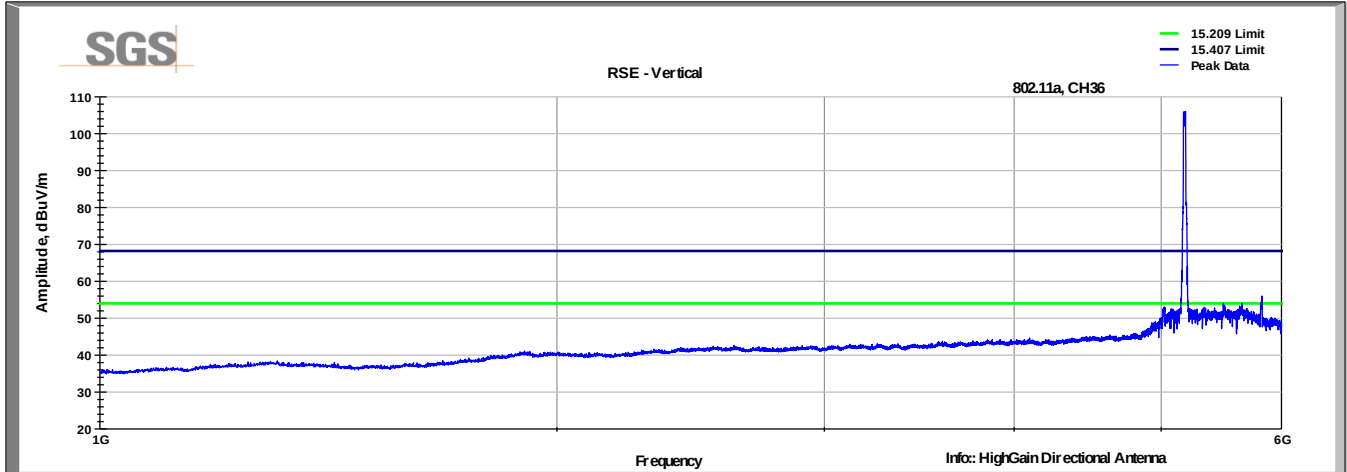
Horizontal



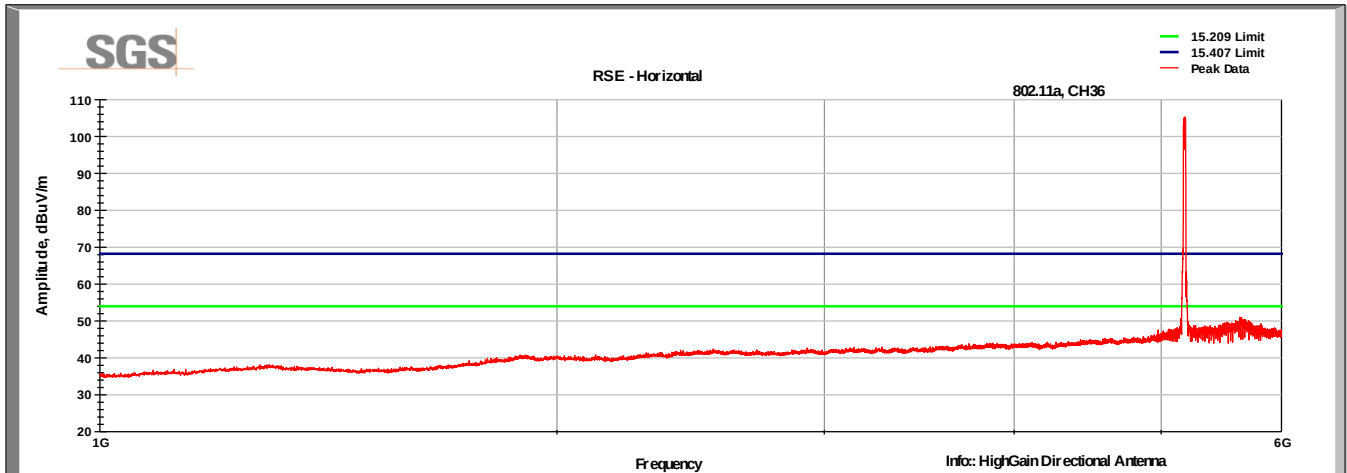
3.11 Test Data – Antenna P/N: M5016019D30006I (1-6GHz)

CH 36 6MB/s

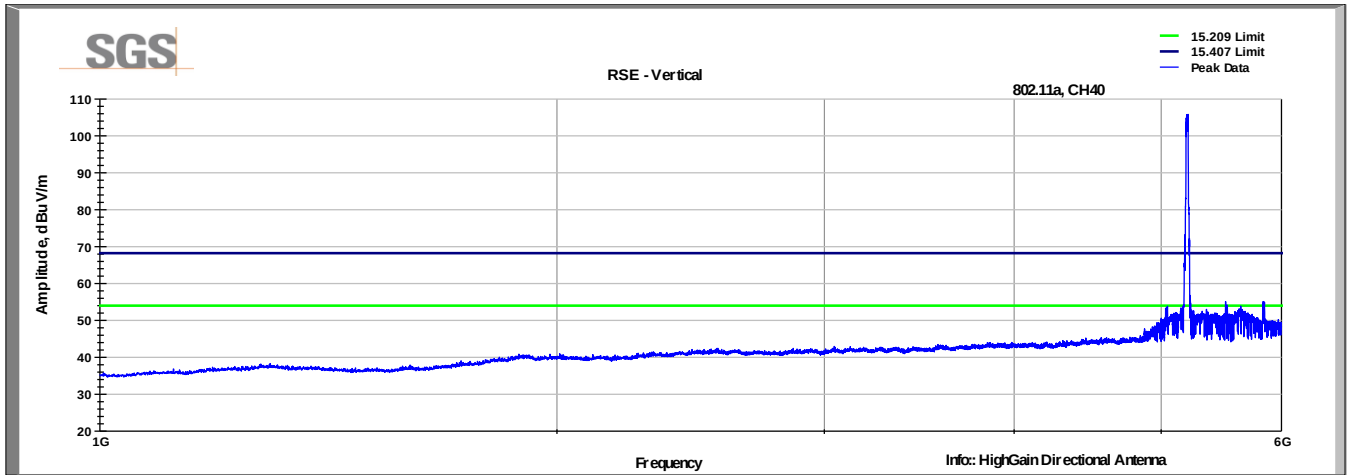
Vertical



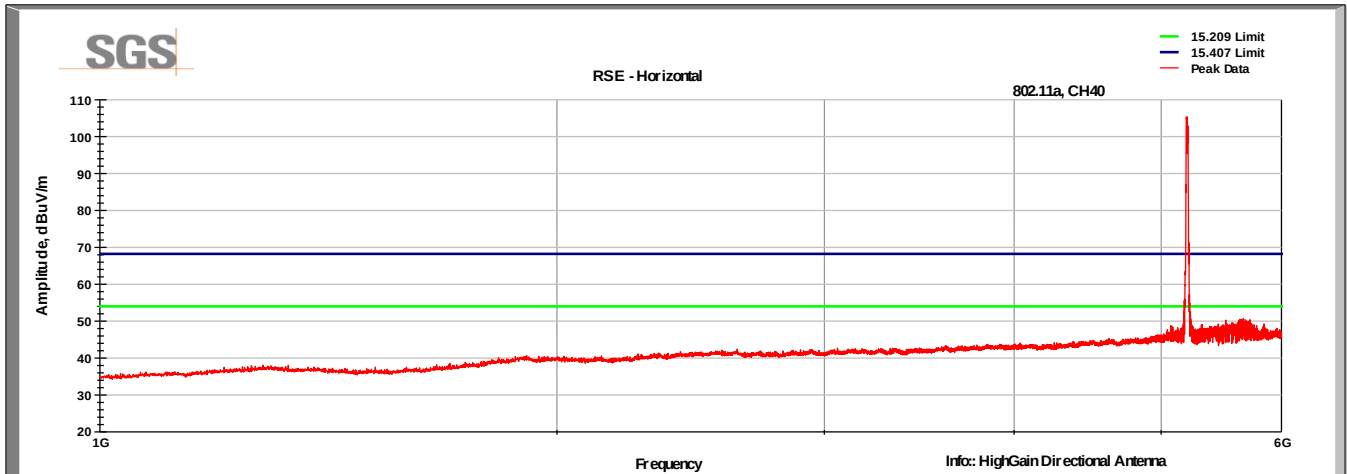
Horizontal



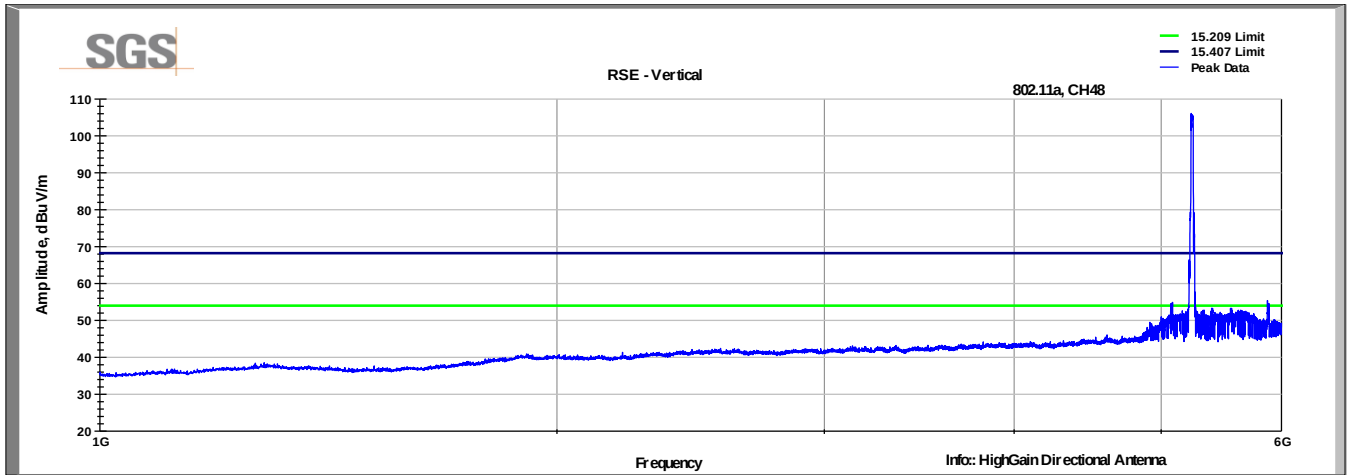
CH 40 6MB/s Vertical



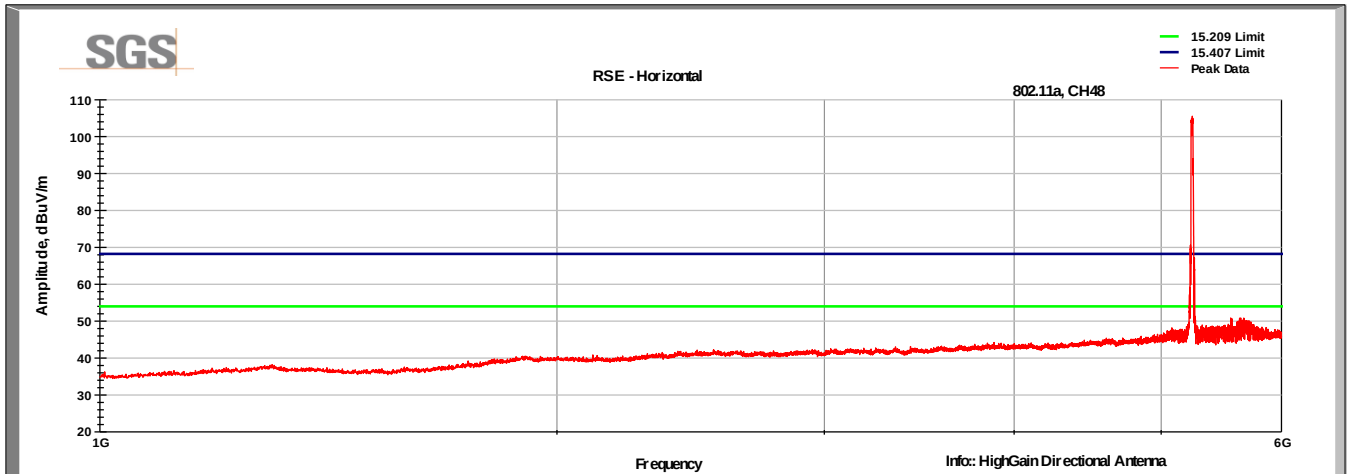
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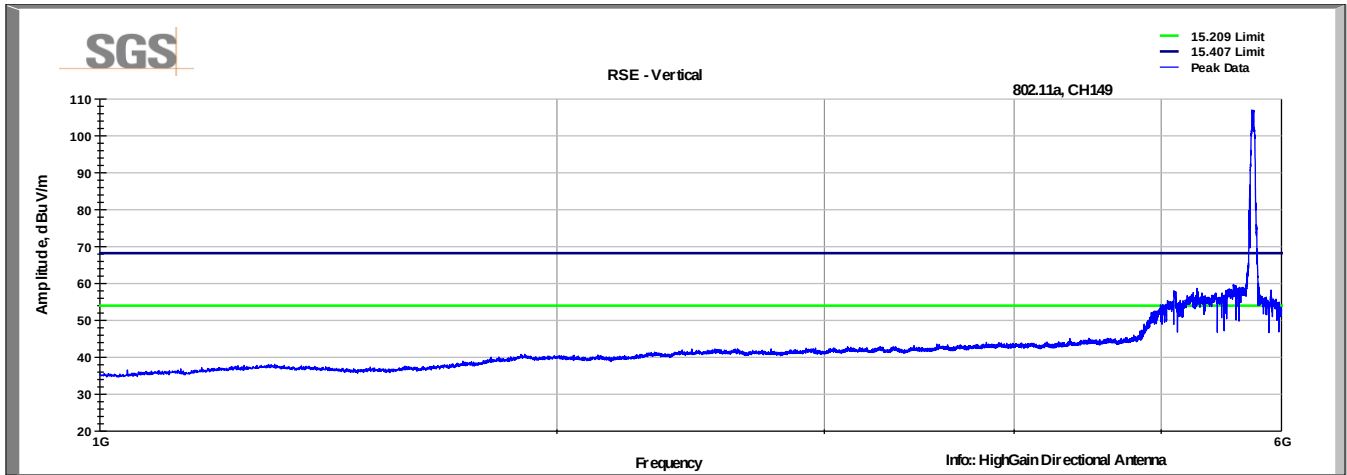
CH 48 6MB/s Vertical



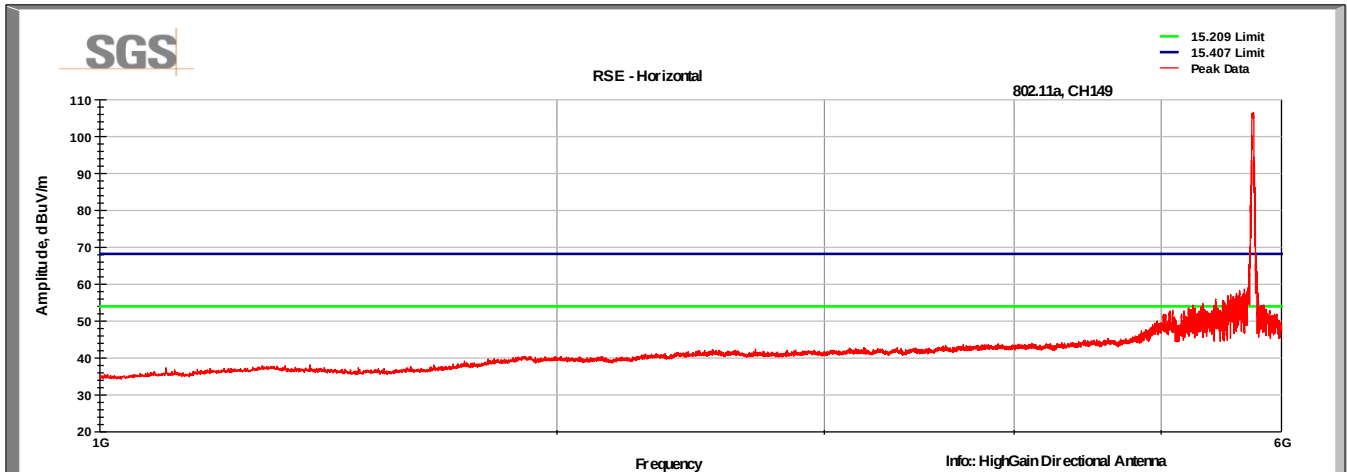
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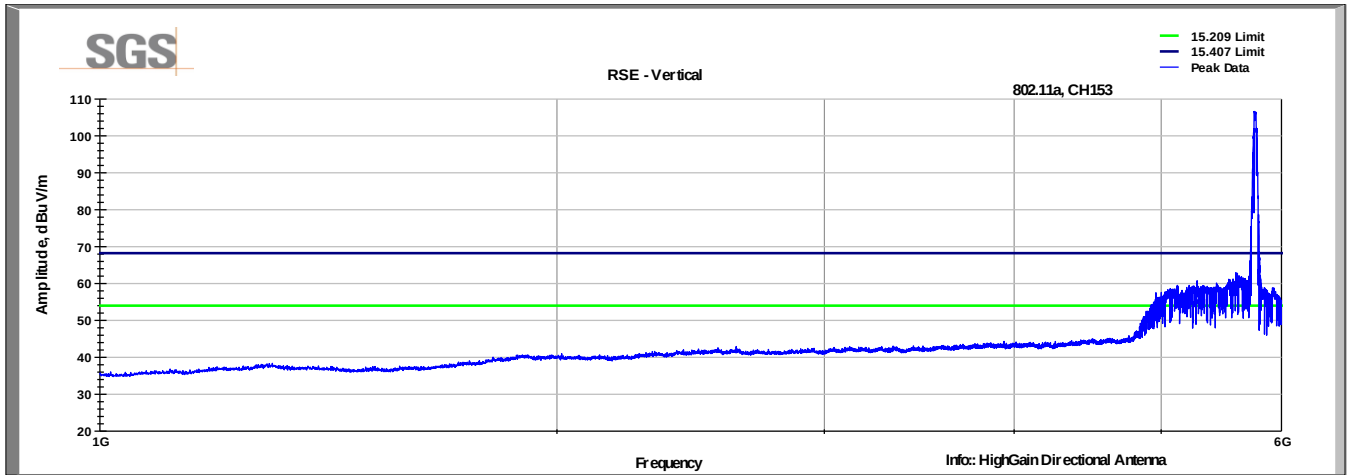
CH 149 6MB/s Vertical



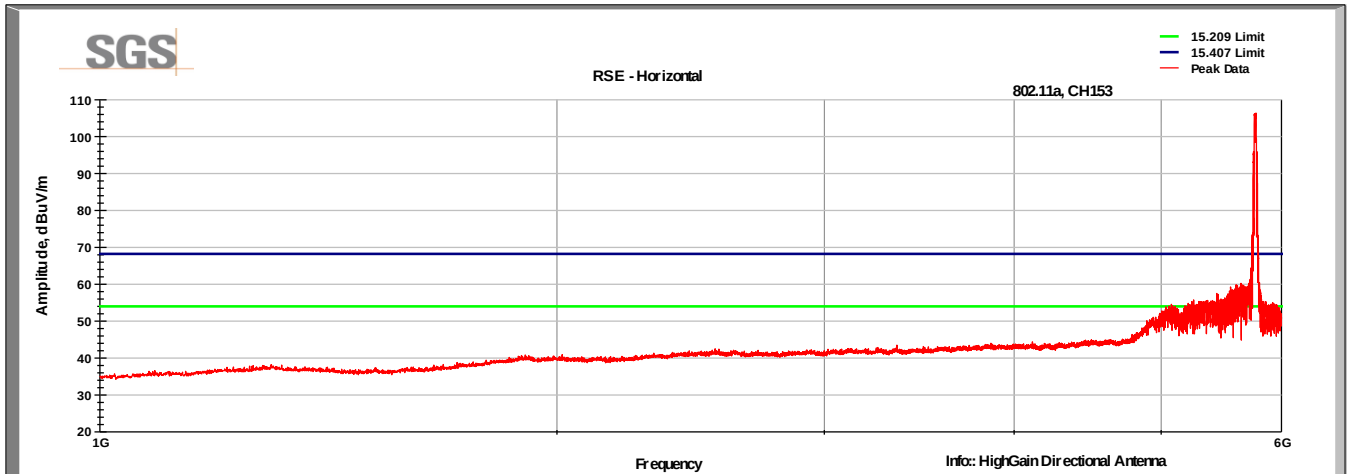
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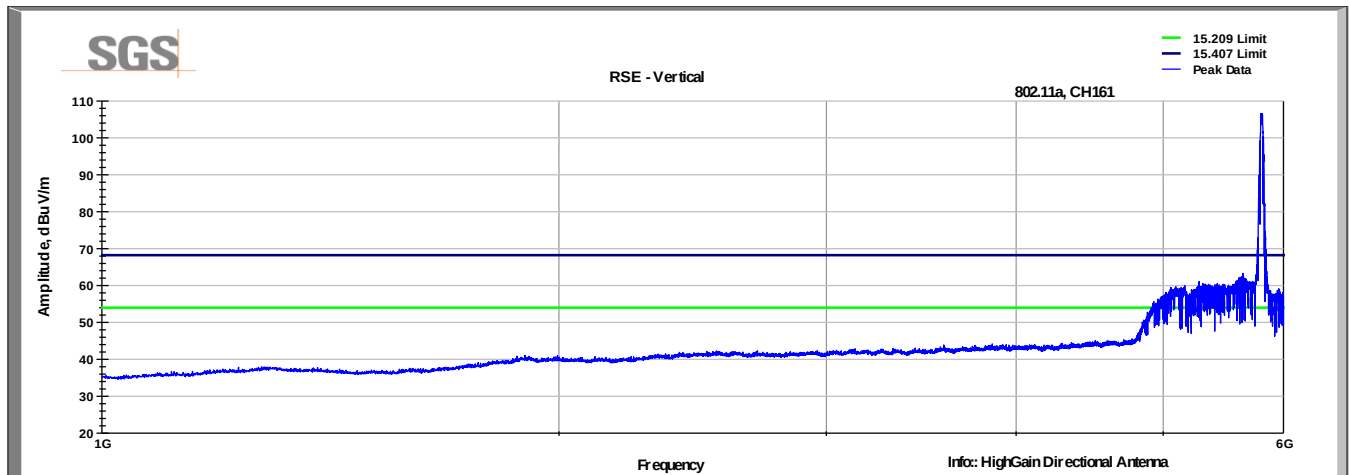
CH 153 6MB/s Vertical



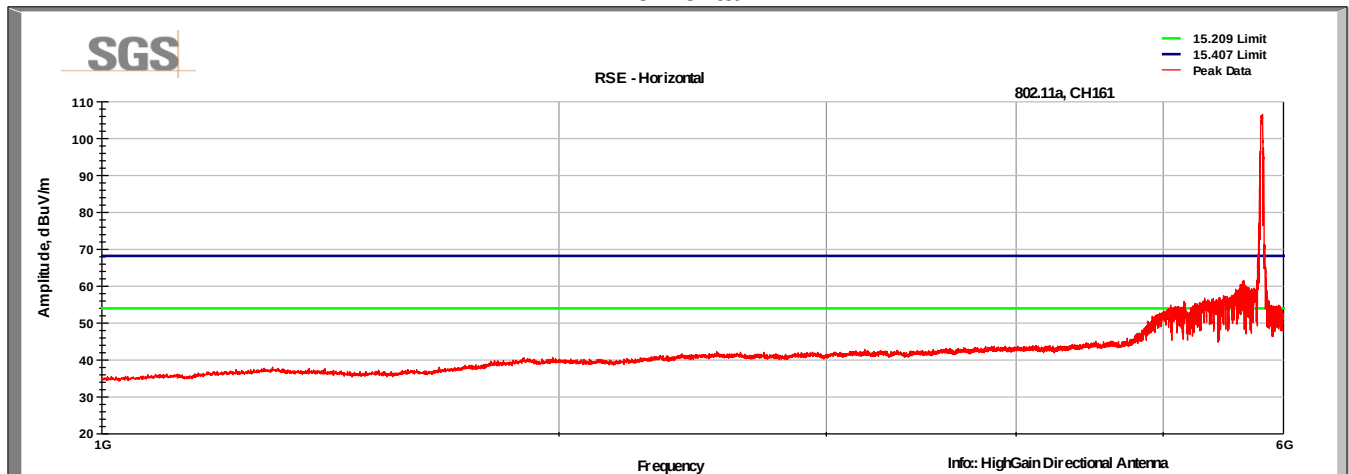
Horizontal



CH 161 6MB/s Vertical



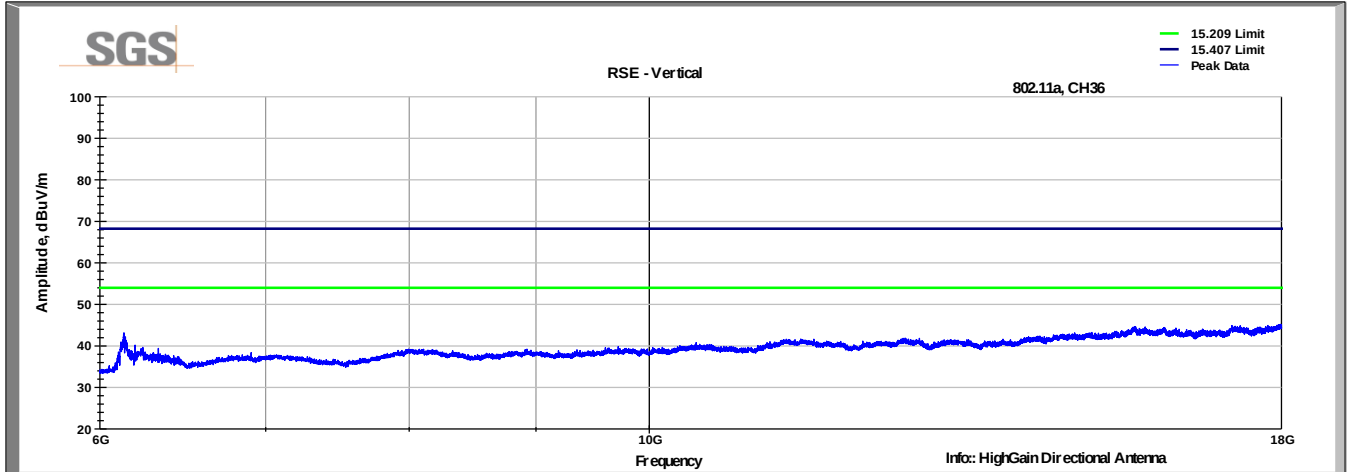
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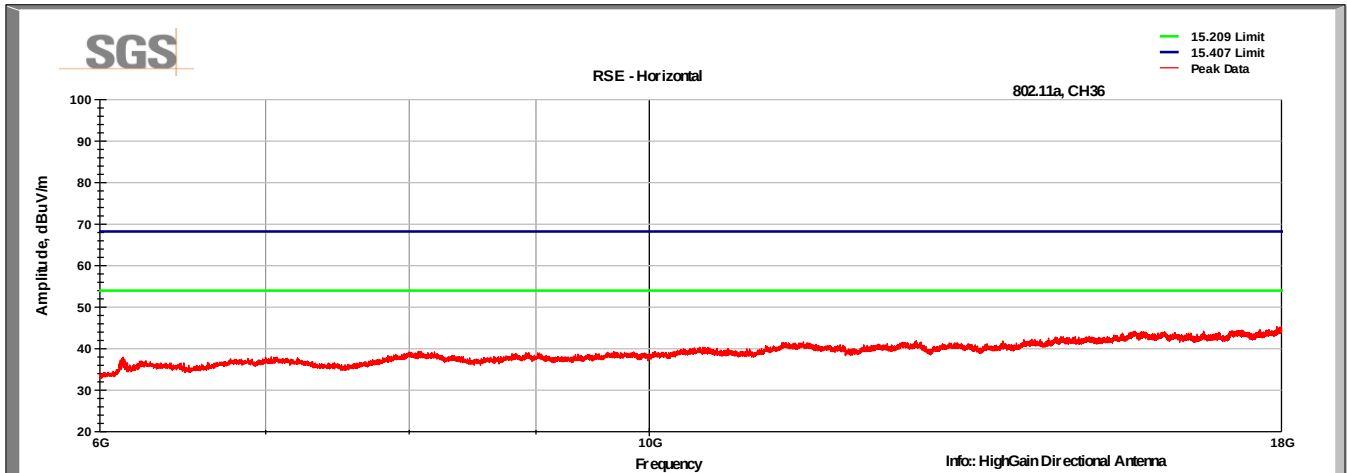
3.12 Test Data – Antenna P/N: M5016019D30006I (6-18GHz)

CH 36 6MB/s

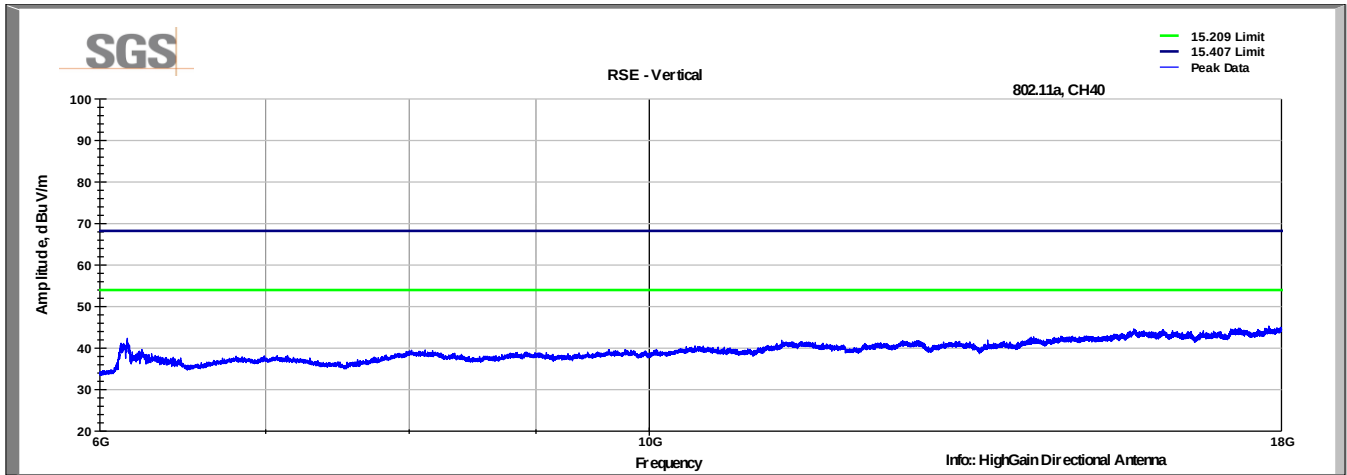
Vertical



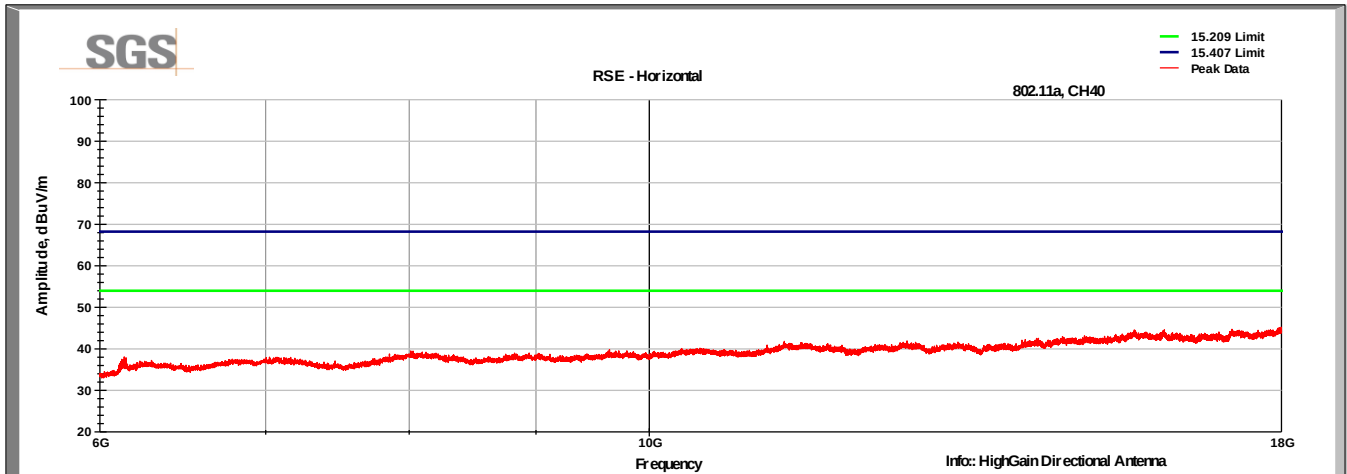
Horizontal



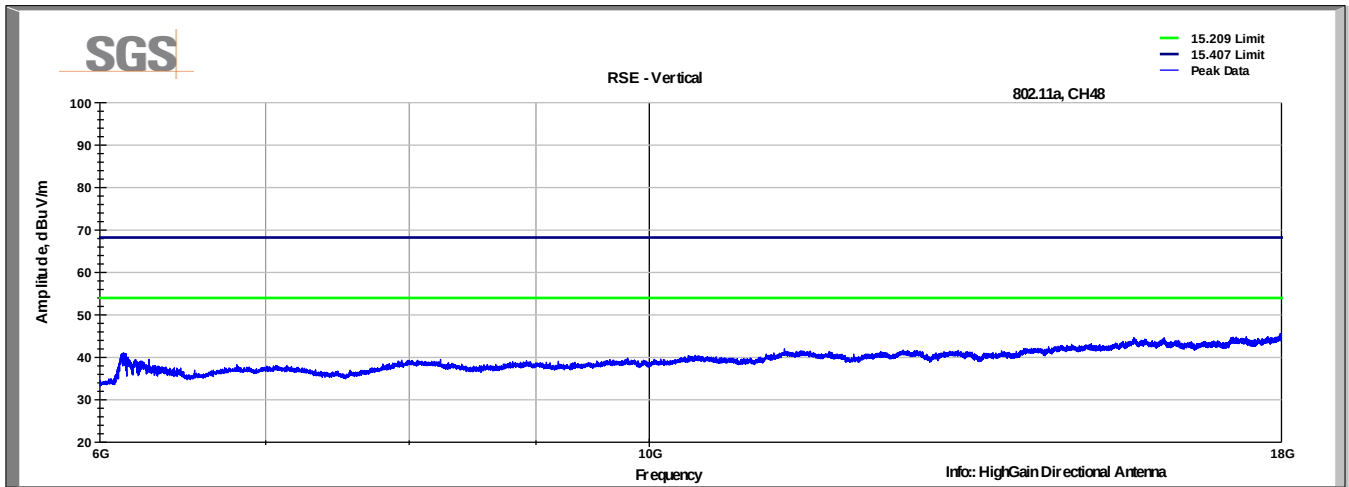
CH 40 6MB/s Vertical



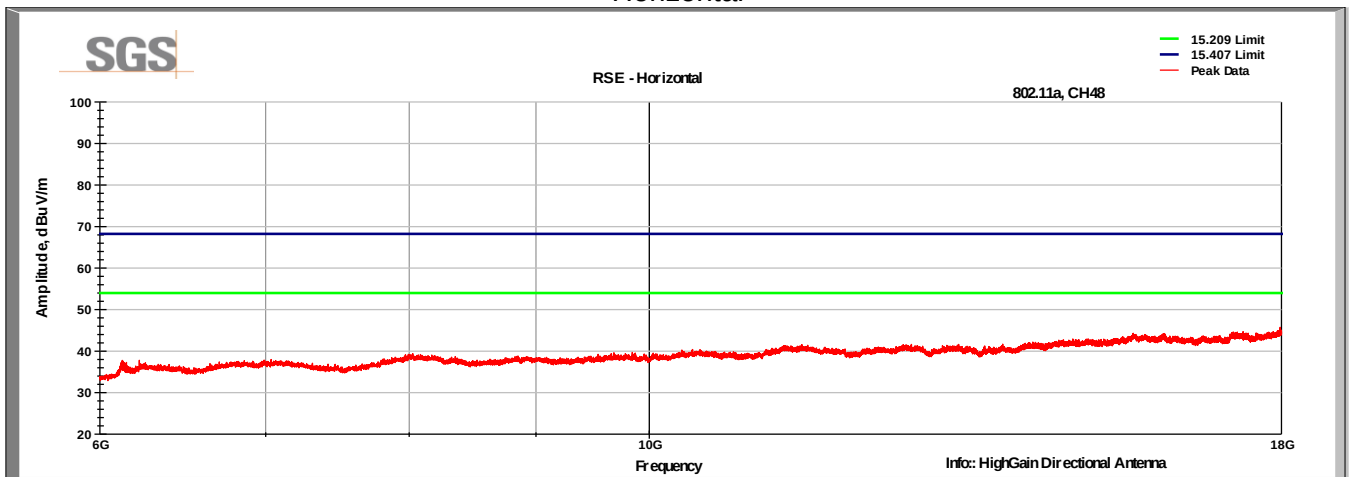
Horizontal



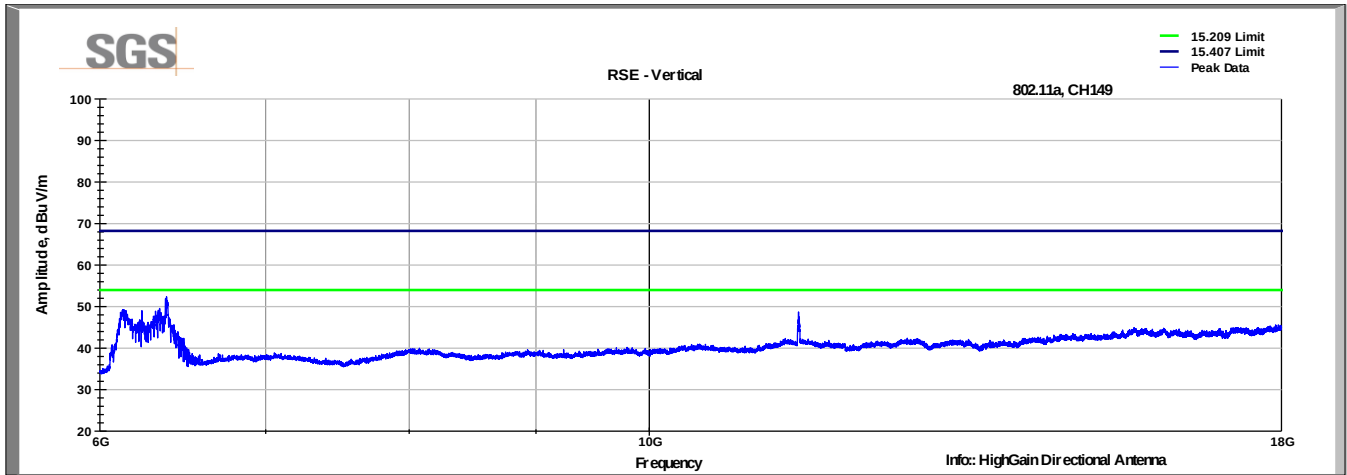
CH 48 6MB/s Vertical



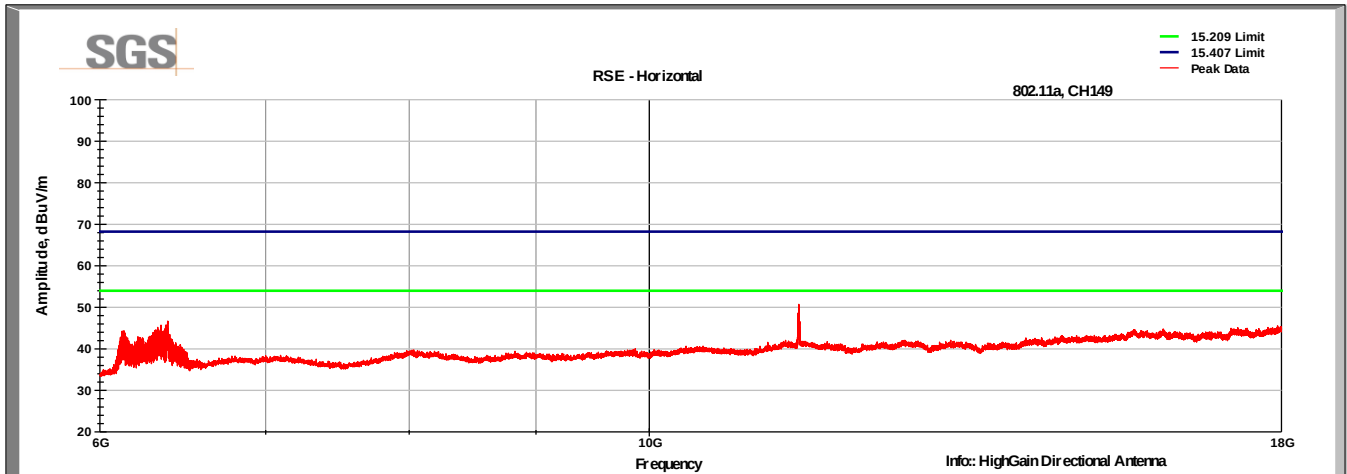
Horizontal



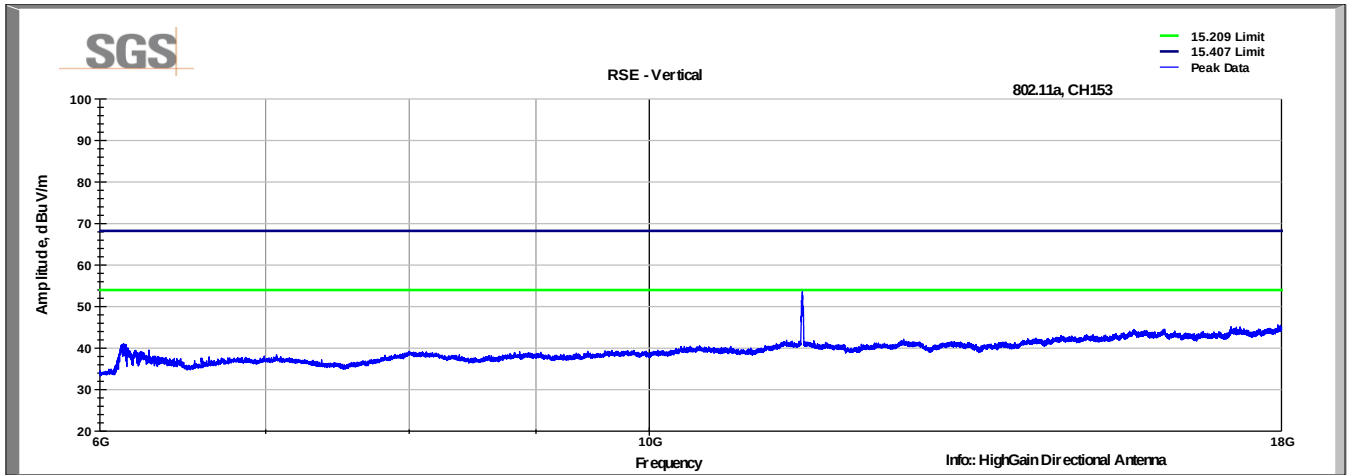
CH 149 6MB/s Vertical



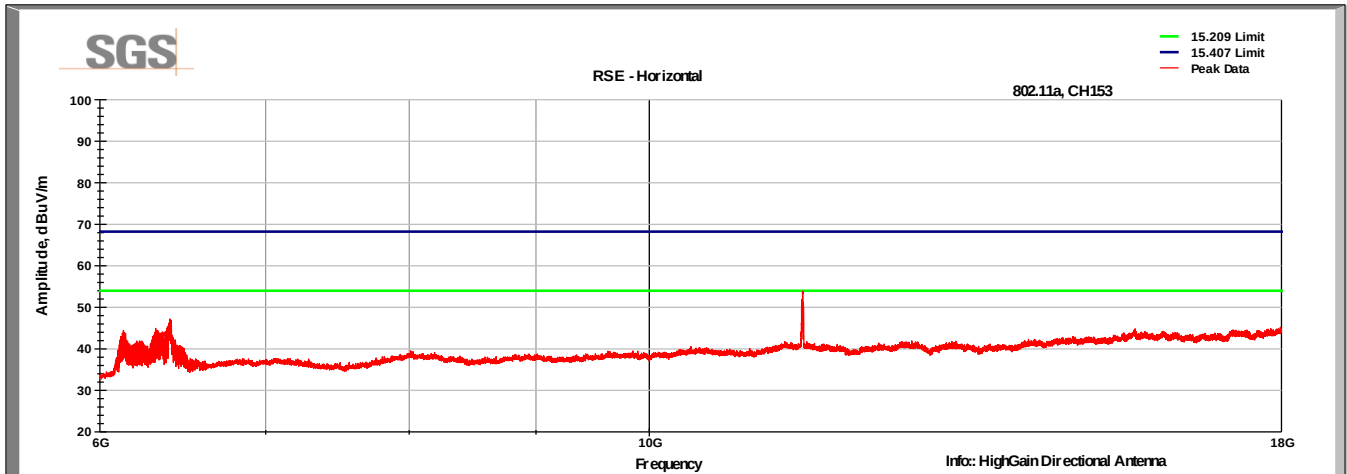
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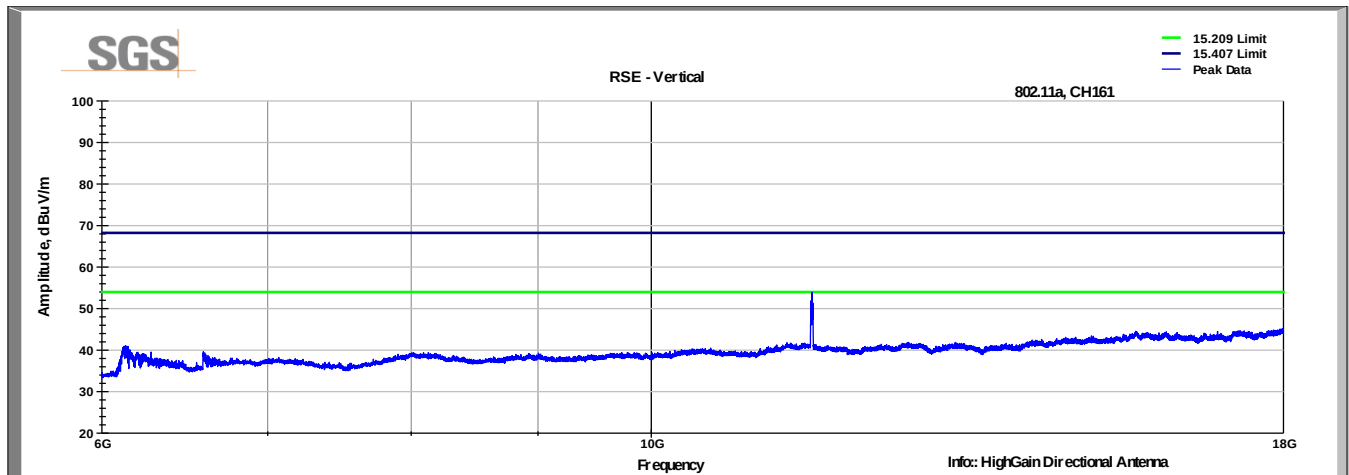
CH 153 6MB/s Vertical



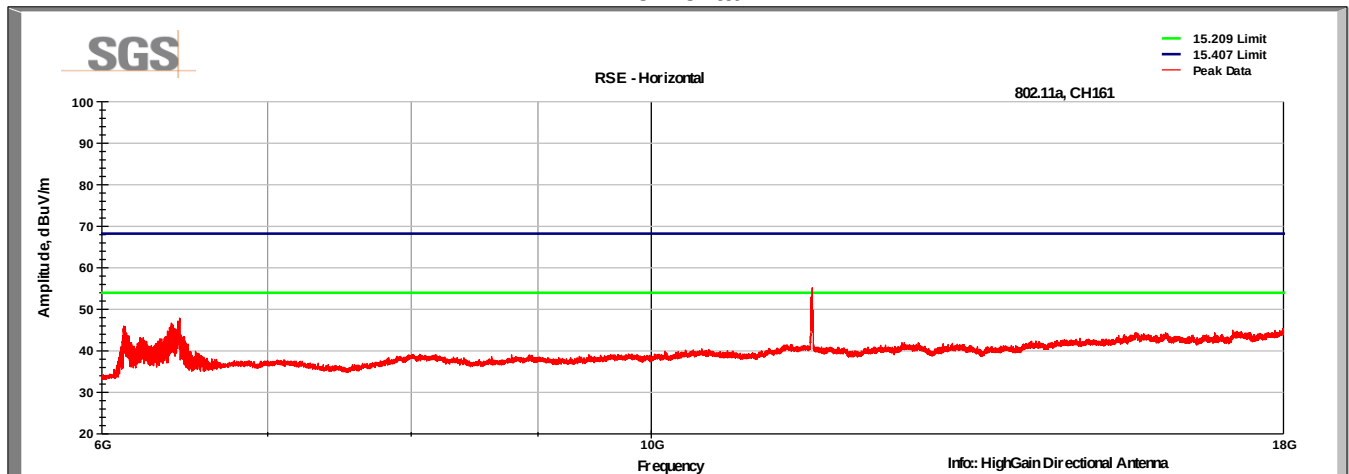
Horizontal



CH 161 6MB/s Vertical



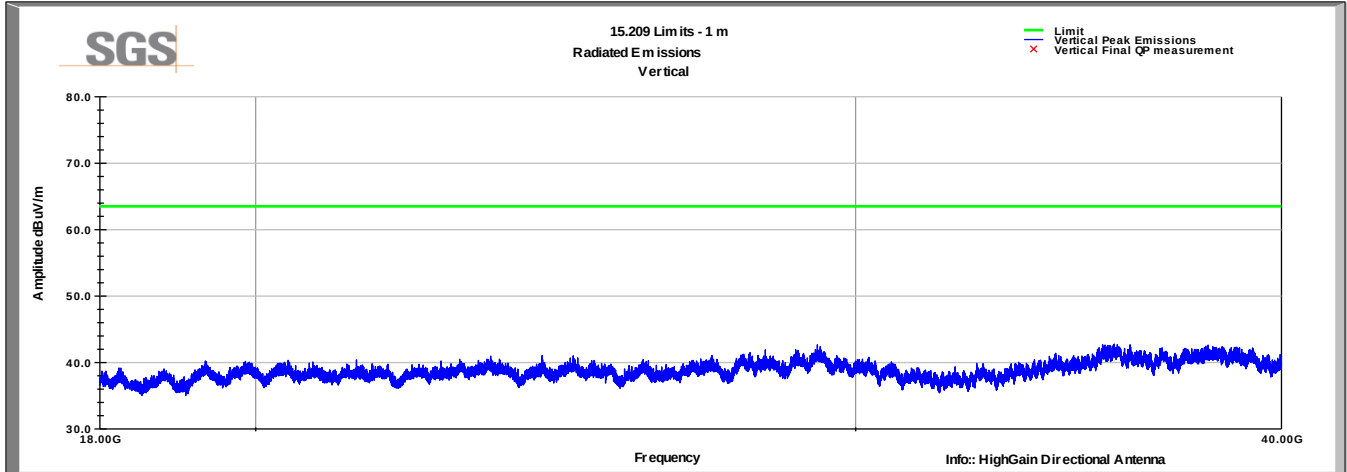
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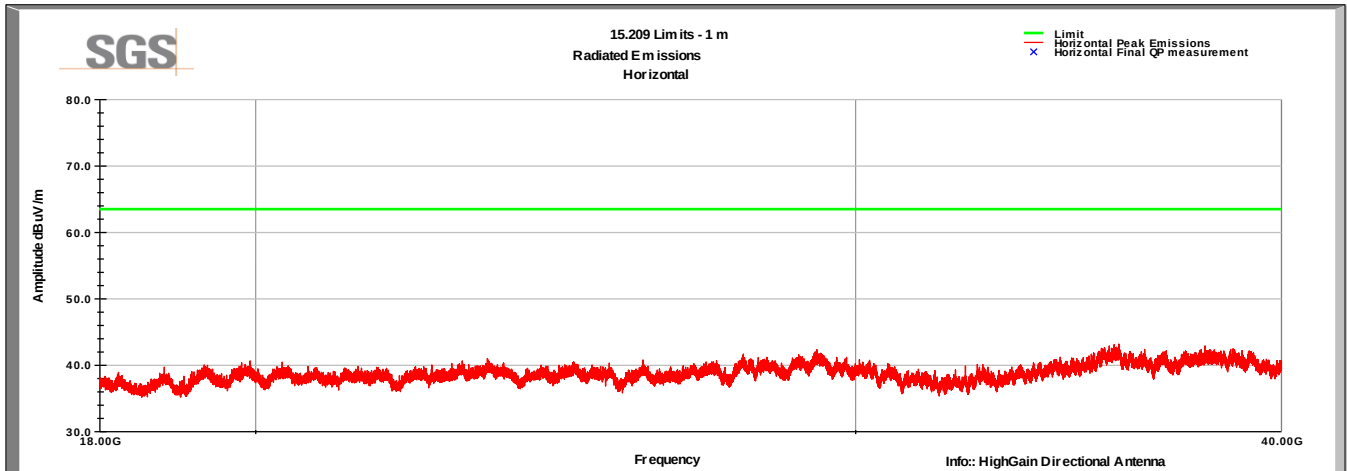
3.13 Test Data – Antenna P/N: M5016019D30006I (18-40GHz)

CH 36 6MB/s

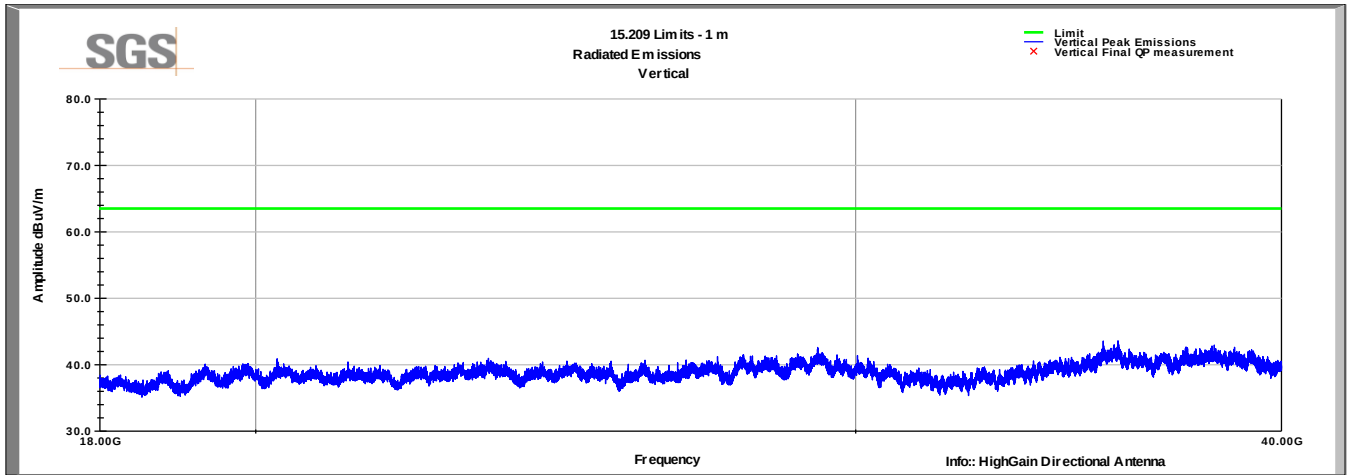
Vertical



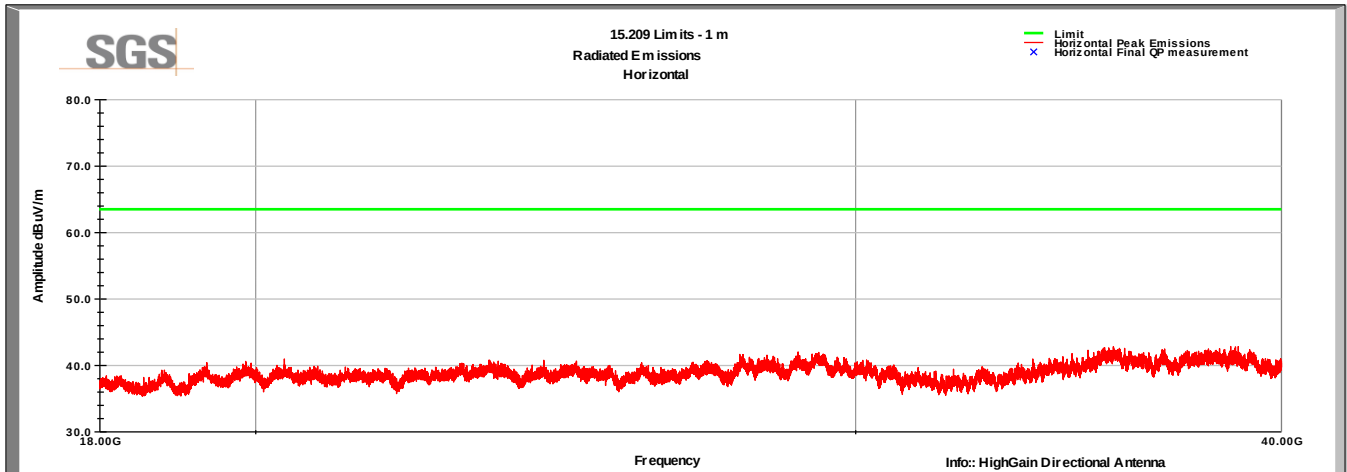
Horizontal



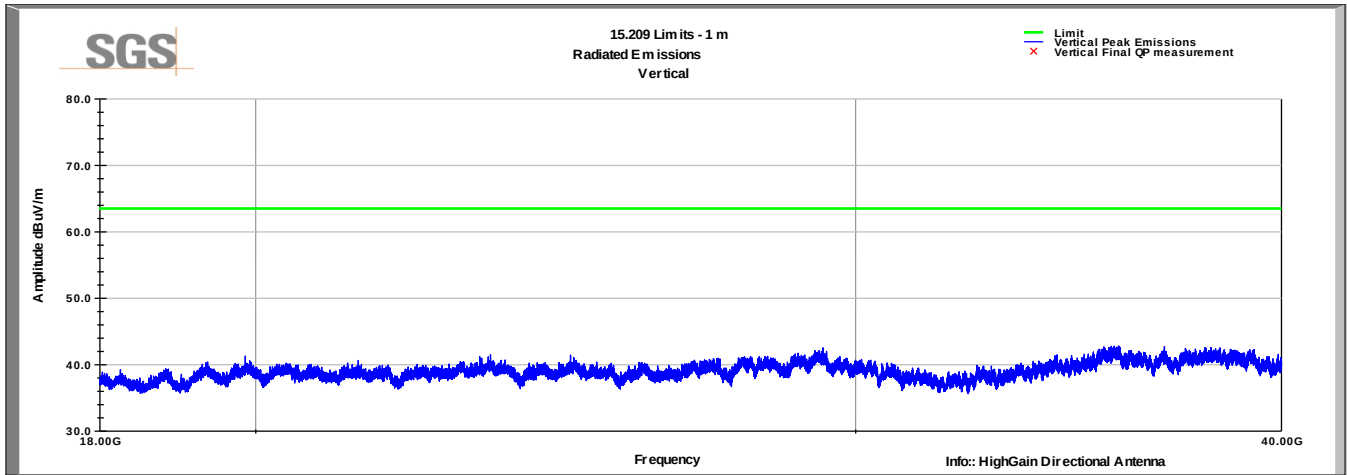
CH 40 6MB/s Vertical



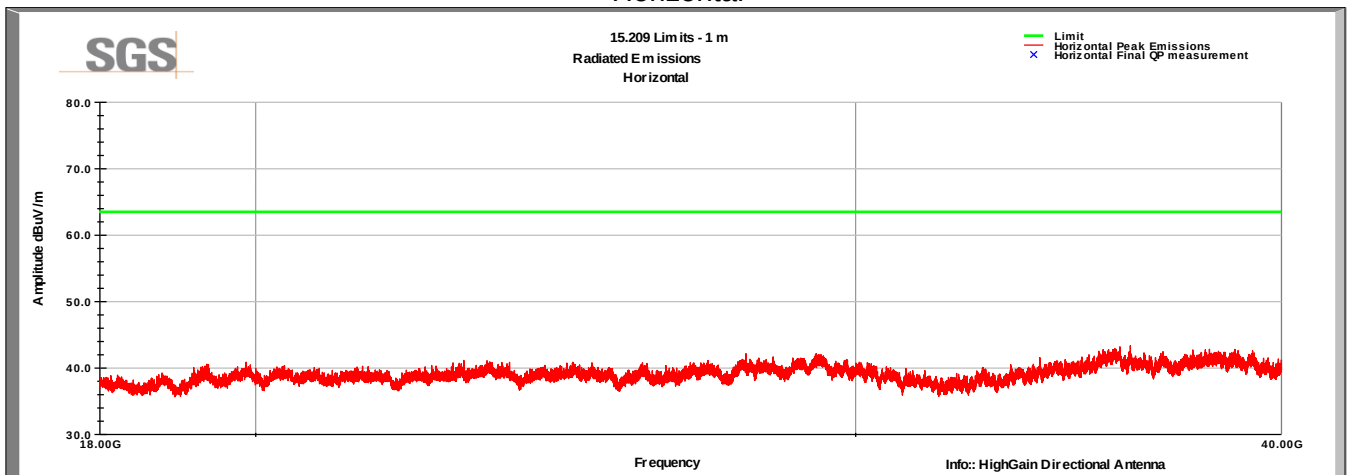
Horizontal



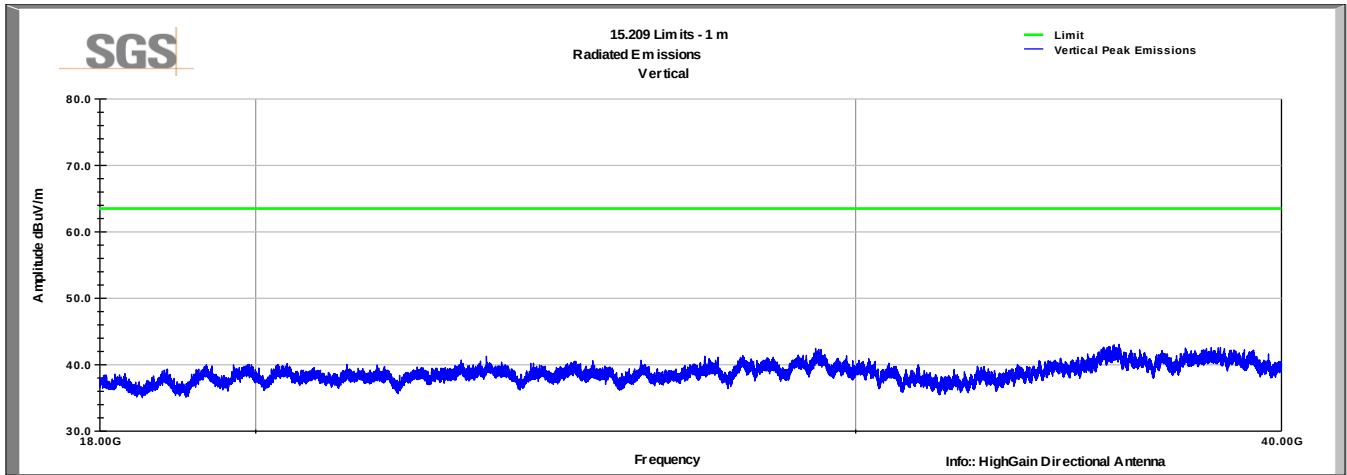
CH 48 6MB/s Vertical



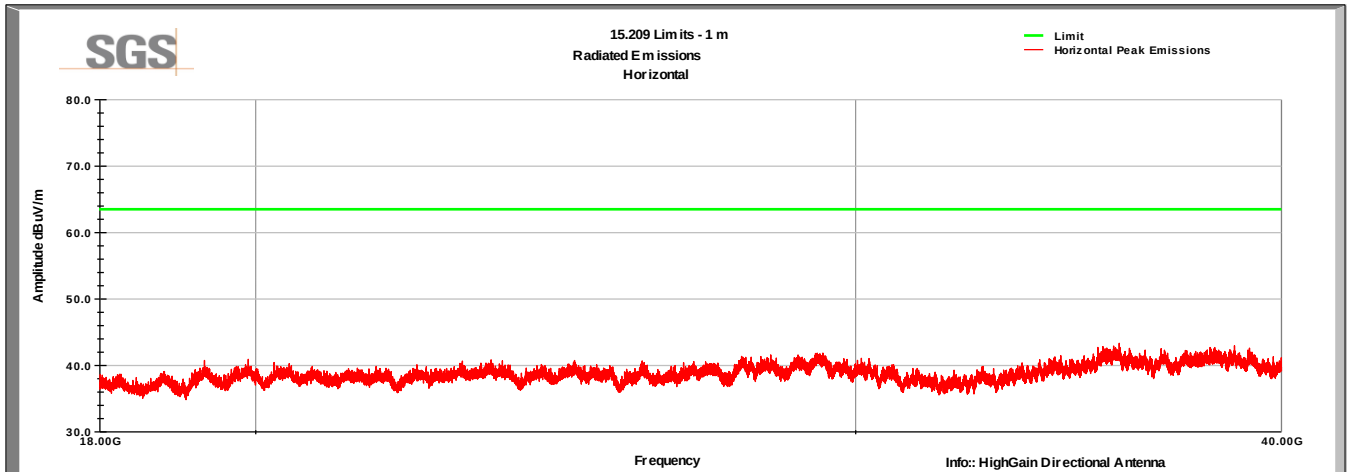
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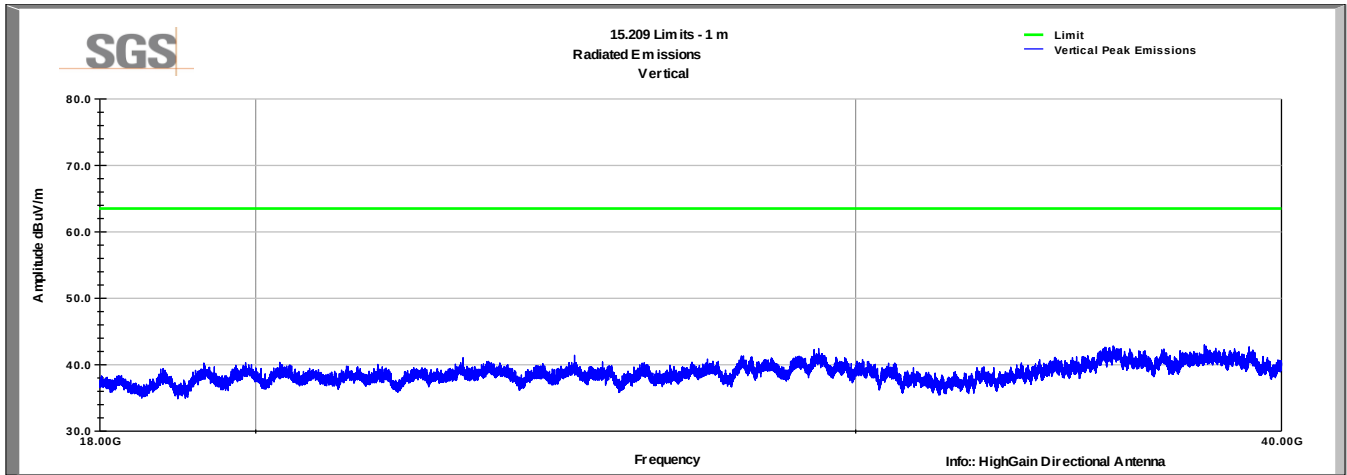
CH 149 6MB/s Vertical



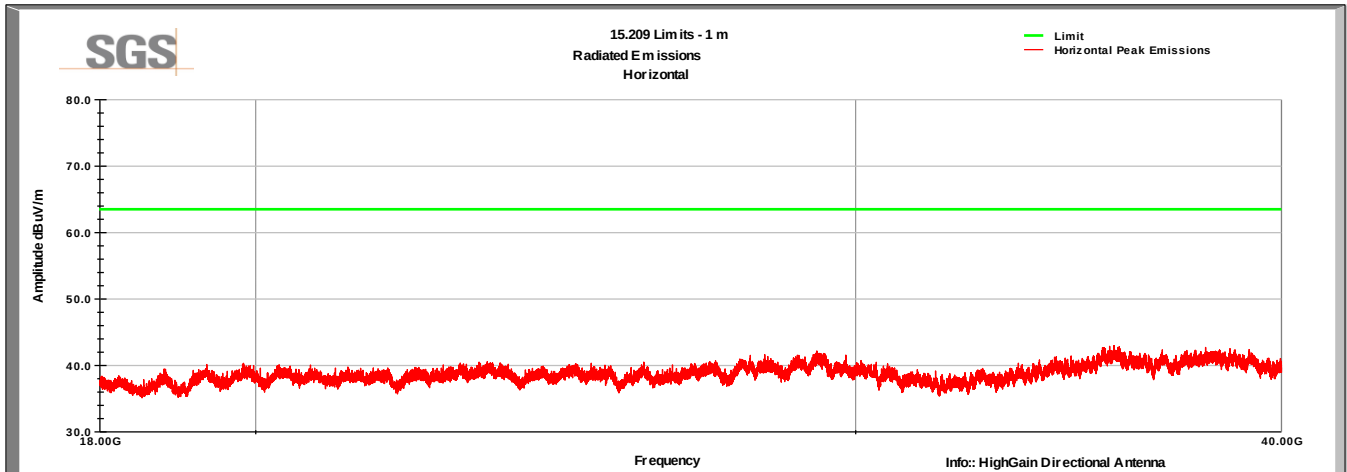
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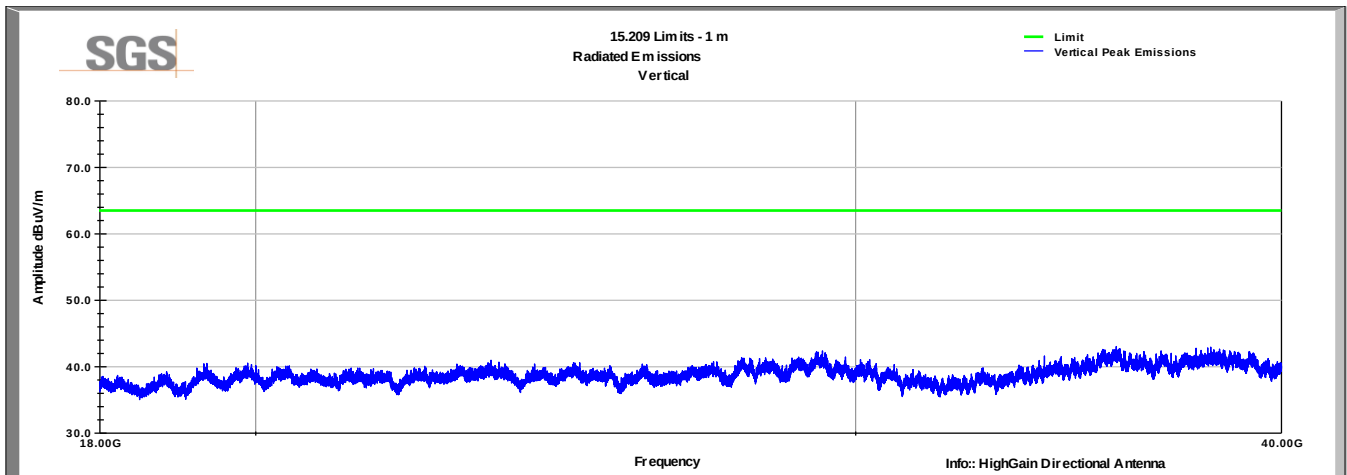
CH 153 6MB/s Vertical



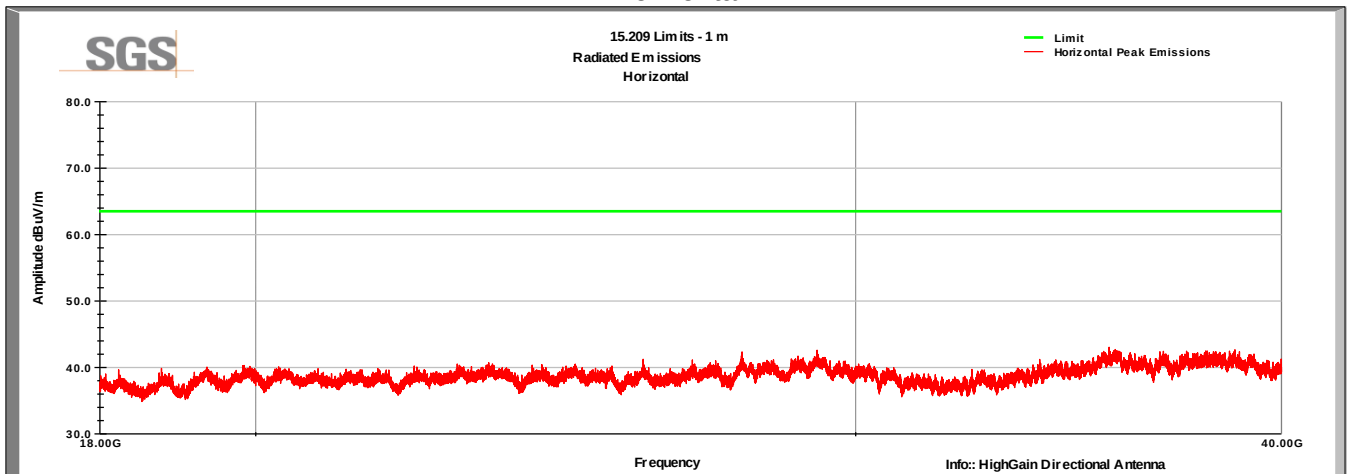
Horizontal



CH 161 6MB/s Vertical



Horizontal



3.14 Test Data – Tabular Results

Frequency MHz	Raw Meas (dBuV)	Polarity (V/H)	AF (dB/m)	CL (dB)	Amp (dB)	Corr Value dBuV/m	Limit (dBuV/m)	Margin (dB)	Detector
Channel 149									
Antenna P/N: M6060070MP13620 (MIMO Patch)									
11492.00	36.1	V	38.2	5.1	32.2	47.2	74.0	-26.8	Peak
11492.00	22.4	V	38.2	5.1	32.2	33.5	54.0	-20.5	Average
11492.00	34.2	H	38.2	5.1	32.2	45.3	74.0	-28.7	Peak
11492.00	20.7	H	38.2	5.1	32.2	31.8	54.0	-22.2	Average
Antenna P/N: M5016019D30006I (Triple Polarization Directional Antenna)									
11489.00	37.6	V	38.2	5.1	32.2	48.7	74.0	-25.3	Peak
11489.00	23.7	V	38.2	5.1	32.2	34.8	54.0	-19.2	Average
11489.00	39.6	H	38.2	5.1	32.2	50.7	74.0	-23.3	Peak
11489.00	25.9	H	38.2	5.1	32.2	37.0	54.0	-17.0	Average
Channel 153									
Antenna P/N: M6060070MP13620 (MIMO Patch)									
11530.80	40.4	V	38.2	5.1	32.2	51.5	74.0	-22.5	Peak
11530.80	26.6	V	38.2	5.1	32.2	37.7	54.0	-16.3	Average
11530.80	35.7	H	38.2	5.1	32.2	46.8	74.0	-27.2	Peak
11530.80	21.8	H	38.2	5.1	32.2	32.9	54.0	-21.1	Average
Antenna P/N: M6013070P30006I (High Density Panel)									
11532.00	37.6	V	38.2	5.1	32.2	48.7	74.0	-25.3	Peak
11532.00	24.1	V	38.2	5.1	32.2	35.2	54.0	-18.8	Average
11532.00	35.3	H	38.2	5.1	32.2	46.4	74.0	-27.6	Peak
11532.00	21.5	H	38.2	5.1	32.2	32.6	54.0	-21.4	Average
Antenna P/N: M5016019D30006I (Triple Polarization Directional Antenna)									
11530.00	42.5	V	38.2	5.1	32.2	53.6	74.0	-20.4	Peak
11530.00	28.6	V	38.2	5.1	32.2	39.7	54.0	-14.3	Average
11530.00	42.8	H	38.2	5.1	32.2	53.9	74.0	-20.1	Peak
11530.00	28.8	H	38.2	5.1	32.2	39.9	54.0	-14.1	Average
Channel 161									
Antenna P/N: M6060070MP13620 (MIMO Patch)									
11611.00	40.7	V	38.3	5.1	32.4	51.7	74.0	-22.3	Peak
11611.00	26.9	V	38.3	5.1	32.4	37.9	54.0	-16.1	Average
11611.00	38.9	H	38.3	5.1	32.4	49.9	74.0	-24.1	Peak
11611.00	25.2	H	38.3	5.1	32.4	36.2	54.0	-17.8	Average
Antenna P/N: M6013070P30006I (High Density Panel)									
11610.00	41.2	V	38.3	5.1	32.4	52.2	74.0	-21.8	Peak
11610.00	27.5	V	38.3	5.1	32.4	38.5	54.0	-15.5	Average
11610.00	41.0	H	38.3	5.1	32.4	52.0	74.0	-22.0	Peak
11610.00	27.4	H	38.3	5.1	32.4	38.4	54.0	-15.6	Average
Antenna P/N: M5016019D30006I (Triple Polarization Directional Antenna)									
11613.00	42.9	V	38.3	5.1	32.4	53.9	74.0	-20.1	Peak
11613.00	29.0	V	38.3	5.1	32.4	40.0	54.0	-14.0	Average
11613.00	44.2	H	38.3	5.1	32.4	55.2	74.0	-18.8	Peak
11613.00	30.7	H	38.3	5.1	32.4	41.7	54.0	-12.3	Average
Avg Value = Level + AF + CL - Amp									
Margin = Avg Value - Limit									

4 Revision History

Revision Level	Description of changes	Revision Date
0	Initial release	30 October 2015
1	- Added reference to KDB 789033 in test method on page 7. - Added Appendix A which includes guidance for power level adjustments needed to maintain compliance with the FCC rules	11 January 2016
2	- Updated KDB reference on page 7 - Corrected adjustment values for U-NII-1 Band 802.11n (HT20) table on page 65.	25 January 2016
3	- Updated Appendix A – the High Gain 5GHz antenna (P/N: M5016019D30006I) is intended for point-to-point operation only.	03 March 2016

Appendix A: Power Adjustment Requirements

To maintain compliance with the power and PSD limits defined in Section 15.407(a)(1)(i), the following guidance will be used for reducing the power settings relative to the original certification measurements.

U-NII-1 Band 802.11a Conducted Power

Channel	Freq (MHz)	Measured Conducted Power (dBm)			Aggregate Power (mW)	Aggregate Power (dBm)	Limit* (dBm)	Required Reduction (dB)
		Chain 0	Chain 1	Chain 2				
36	5180	16.04	16.67	16.02	126.625	21.03	30	0
40	5200	18.46	17.54	18.62	199.678	23.00	30	0
48	5240	18.51	18.26	18.56	209.725	23.22	30	0

* The 19dBi antenna is only intended for point-to-point back haul and bridging. Therefore, the power limits defined in 15.407(a)(1)(iii) were applied which allows for 30dBm conducted power in conjunction with an antenna gain of up to 23dBi.

For the 7dBi antennas, the limit is 29dBm which was met with the original certification measurements.

Power at 30° above as measured from the horizon

Channel	Freq (MHz)	Conducted Power (mW)	Conducted Power (dBm)	Max Antenna Gain above 30 degrees from the horizon (dBi)	EIRP (dBm)	Limit (dBm)	Required Reduction (dB)
19 dBi Triple Polarization Directional Antenna (P/N: M5016019D30006I)							
NA – This antenna is only intended for point-to-point back haul and bridging. Therefore, the power limits defined in 15.407(a)(1)(iii) were applied which allows for 30dBm conducted power in conjunction with an antenna gain of up to 23dBi.							
7 dBi High Density MIMO Patch Array (P/N: M6013070P30006I)							
36	5180	126.625	21.03	6.0	27.03	21	6.03
40	5200	199.678	23.00	6.0	29.00	21	8.00
48	5240	209.725	23.22	6.0	29.22	21	8.22
7 dBi Dual Band MIMO Patch Antenna (P/N: M6060070MP13620)							
36	5180	126.625	21.03	5.0	26.03	21	5.03
40	5200	199.678	23.00	5.0	28.00	21	7.00
48	5240	209.725	23.22	5.0	28.22	21	7.22

Power Spectral Density

Channel	Freq (MHz)	Measured Conducted Power (dBm)			Duty Cycle Factor (dB)	Total PSD (dBm)	Limit* (dBm)	Required Reduction (dB)
		Chain 0	Chain 1	Chain 2				
36	5180	4.28	3.75	4.24	0.37	9.23	17	0
40	5200	6.65	5.58	6.97	0.37	11.58	17	0
48	5240	6.97	6.74	7.41	0.37	12.19	17	0

* The 19dBi antenna is only intended for point-to-point back haul and bridging. Therefore, the power limits defined in 15.407(a)(1)(iii) were applied which allows for 17dBm PSD in conjunction with an antenna gain of up to 23dBi. For the 7dBi antennas, the limit is 16dBm which was met with the original certification measurements.

U-NII-1 Band 802.11n (HT20)

Channel	Freq (MHz)	Measured Conducted Power (dBm)			Aggregate Power (mW)	Aggregate Power (dBm)	Limit* (dBm)	Required Reduction (dB)
		Chain 0	Chain 1	Chain 2				
36	5180	16.73	16.19	16.15	129.899	21.14	30	0
40	5200	18.47	17.77	18.12	195.011	22.9	30	0
48	5240	18.41	18.21	18.43	205.228	23.12	30	0

* The 19dBi antenna is only intended for point-to-point back haul and bridging. Therefore, the power limits defined in 15.407(a)(1)(iii) were applied which allows for 30dBm conducted power in conjunction with an antenna gain of up to 23dBi.

For the 7dBi antennas, the limit is 29dBm which was met with the original certification measurements.

Power at 30° above as measured from the horizon

Channel	Freq (MHz)	Conducted Power (mW)	Conducted Power (dBm)	Max Antenna Gain above 30 degrees from the horizon (dBi)	EIRP (dBm)	Limit (dBm)	Required Reduction (dB)
19 dBi Triple Polarization Directional Antenna (P/N: M5016019D30006I)							
NA – This antenna is only intended for point-to-point back haul and bridging. Therefore, the power limits defined in 15.407(a)(1)(iii) were applied which allows for 30dBm conducted power in conjunction with an antenna gain of up to 23dBi.							
7 dBi High Density MIMO Patch Array (P/N: M6013070P30006I)							
36	5180	129.899	21.14	6.0	27.14	21	6.14
40	5200	195.011	22.9	6.0	28.9	21	7.9
48	5240	205.228	23.12	6.0	29.12	21	8.12
7 dBi Dual Band MIMO Patch Antenna (P/N: M6060070MP13620)							
36	5180	129.899	21.14	5.0	26.14	21	5.14
40	5200	195.011	22.9	5.0	27.9	21	6.9
48	5240	205.228	23.12	5.0	28.12	21	7.12

Power Spectral Density

Channel	Freq (MHz)	Measured Conducted Power (dBm)			Duty Cycle Factor (dB)	Total PSD (dBm)	Limit* (dBm)	Required Reduction (dB)
		Chain 0	Chain 1	Chain 2				
36	5180	4.04	3.54	3.99	0.26	8.89	17	0
40	5200	6.08	4.92	6.62	0.26	10.96	17	0
48	5240	6.78	6.35	7.3	0.26	11.86	17	0

* The 19dBi antenna is only intended for point-to-point back haul and bridging. Therefore, the power limits defined in 15.407(a)(1)(iii) were applied which allows for 17dBm PSD in conjunction with an antenna gain of up to 23dBi. For the 7dBi antennas, the limit is 16dBm which was met with the original certification measurements.

U-NII-1 Band 802.11n (HT40)

Channel	Freq (MHz)	Measured Conducted Power (dBm)			Aggregate Power (mW)	Aggregate Power (dBm)	Limit* (dBm)	Required Reduction (dB)
		Chain 0	Chain 1	Chain 2				
38	5190	11.83	11.16	12.01	44.188	16.45	30	0
46	5230	18.88	17.94	18.9	217.123	23.37	30	0

* The 19dBi antenna is only intended for point-to-point back haul and bridging. Therefore, the power limits defined in 15.407(a)(1)(iii) were applied which allows for 30dBm conducted power in conjunction with an antenna gain of up to 23dBi.

For the 7dBi antennas, the limit is 29dBm which was met with the original certification measurements.

Power at 30° above as measured from the horizon

Channel	Freq (MHz)	Conducted Power (mW)	Conducted Power (dBm)	Max Antenna Gain above 30 degrees from the horizon (dBi)	EIRP (dBm)	Limit (dBm)	Required Reduction (dB)
19 dBi Triple Polarization Directional Antenna (P/N: M5016019D30006I)							
NA – This antenna is only intended for point-to-point back haul and bridging. Therefore, the power limits defined in 15.407(a)(1)(iii) were applied which allows for 30dBm conducted power in conjunction with an antenna gain of up to 23dBi.							
7 dBi High Density MIMO Patch Array (P/N: M6013070P30006I)							
38	5190	44.188	16.45	6.0	22.45	21	1.45
46	5230	217.123	23.37	6.0	29.37	21	8.37
7 dBi Dual Band MIMO Patch Antenna (P/N: M6060070MP13620)							
38	5190	44.188	16.45	5.0	21.45	21	0.45
46	5230	217.123	23.37	5.0	28.37	21	7.37

Power Spectral Density

Channel	Freq (MHz)	Measured Conducted Power (dBm)			Duty Cycle Factor (dB)	Total PSD (dBm)	Limit* (dBm)	Required Reduction (dB)
		Chain 0	Chain 1	Chain 2				
38	5190	-4.79	-5.77	-4.74	0.74	0.43	17	0
46	5230	3.31	3.12	3.16	0.74	8.71	17	0

* The 19dBi antenna is only intended for point-to-point back haul and bridging. Therefore, the power limits defined in 15.407(a)(1)(iii) were applied which allows for 17dBm PSD in conjunction with an antenna gain of up to 23dBi.

For the 7dBi antennas, the limit is 16dBm which was met with the original certification measurements.

U-NII-1 Band 802.11ac (VHT80)

Channel	Freq (MHz)	Measured Conducted Power (dBm)			Aggregate Power (mW)	Aggregate Power (dBm)	Limit* (dBm)	Required Reduction (dB)
		Chain 0	Chain 1	Chain 2				
42	5210	5.1	4.57	5.39	9.559	9.8	30	0

* The 19dBi antenna is only intended for point-to-point back haul and bridging. Therefore, the power limits defined in 15.407(a)(1)(iii) were applied which allows for 30dBm conducted power in conjunction with an antenna gain of up to 23dBi.

For the 7dBi antennas, the limit is 29dBm which was met with the original certification measurements.

Power at 30° above as measured from the horizon

Channel	Freq (MHz)	Conducted Power (mW)	Conducted Power (dBm)	Max Antenna Gain above 30 degrees from the horizon (dBi)	EIRP (dBm)	Limit (dBm)	Required Reduction (dB)
19 dBi Triple Polarization Directional Antenna (P/N: M5016019D30006I)							
NA – This antenna is only intended for point-to-point back haul and bridging. Therefore, the power limits defined in 15.407(a)(1)(iii) were applied which allows for 30dBm conducted power in conjunction with an antenna gain of up to 23dBi.							
7 dBi High Density MIMO Patch Array (P/N: M6013070P30006I)							
42	5210	9.559	9.8	6.0	15.8	21	0
7 dBi Dual Band MIMO Patch Antenna (P/N: M6060070MP13620)							
42	5210	9.559	9.8	5.0	14.8	21	0

Power Spectral Density

Channel	Freq (MHz)	Measured Conducted Power (dBm)			Duty Cycle Factor (dB)	Total PSD (dBm)	Limit* (dBm)	Required Reduction (dB)
		Chain 0	Chain 1	Chain 2				
42	5210	-15.31	-15.13	-15.18	1.21	-9.22	17	0

* The 19dBi antenna is only intended for point-to-point back haul and bridging. Therefore, the power limits defined in 15.407(a)(1)(iii) were applied which allows for 17dBm PSD in conjunction with an antenna gain of up to 23dBi.

For the 7dBi antennas, the limit is 16dBm which was met with the original certification measurements.

U-NII-3 Band 802.11a

Channel	Freq (MHz)	Measured Conducted Power (dBm)			Aggregate Power (mW)	Aggregate Power (dBm)	Limit* (dBm)	Required Reduction (dB)
		Chain 0	Chain 1	Chain 2				
149	5745	16.34	17.91	17.68	163.469	22.13	30	0
157	5785	22.96	23.24	22.6	590.53	27.71	30	0
165	5825	18.52	19.39	19.29	242.935	23.85	30	0

* The 19dBi antenna is only intended for point-to-point back haul and bridging. Therefore, those power limits defined in 15.407(a)(3) were applied which allows for 30dBm conducted power in conjunction with an antenna gain greater than 6dBi.

For the 7dBi antennas, the limit is 29dBm which was met with the original certification measurements.

Power Spectral Density

Chain	Channel	Freq (MHz)	PSD (dBm/500kHz)	10 log (N=3) dB	Duty Cycle Factor (dB)	Total PSD (dBm/500kHz)	Limit* (dBm)	Required Reduction (dB)
0	149	5745	-0.31	4.77	0.26	4.83	30	0
	157	5785	4.97	4.77	0.26	10.11	30	0
	165	5825	1.47	4.77	0.26	6.61	30	0
1	149	5745	1.33	4.77	0.26	6.47	30	0
	157	5785	5.14	4.77	0.26	10.28	30	0
	165	5825	2.07	4.77	0.26	7.21	30	0
2	149	5745	1.37	4.77	0.26	6.51	30	0
	157	5785	4.44	4.77	0.26	9.58	30	0
	165	5825	1.04	4.77	0.26	6.18	30	0

* The 19dBi antenna is only intended for point-to-point back haul and bridging. Therefore, those power limits defined in 15.407(a)(3) were applied which allows for 30dBm PSD in any 500kHz band in conjunction with an antenna gain greater than 6dBi.

For the 7dBi antennas, the limit is 29dBm which was also met with the original certification measurements.

U-NII-3 Band 802.11n (HT20)

Channel	Freq (MHz)	Measured Conducted Power (dBm)			Aggregate Power (mW)	Aggregate Power (dBm)	Limit* (dBm)	Required Reduction (dB)
		Chain 0	Chain 1	Chain 2				
149	5745	16.55	17.59	17.9	164.258	22.16	30	0
157	5785	22.41	23.18	22.61	564.541	27.52	30	0
165	5825	18.67	18.86	19.11	232.004	23.65	30	0

* The 19dBi antenna is only intended for point-to-point back haul and bridging. Therefore, those power limits defined in 15.407(a)(3) were applied which allows for 30dBm conducted power in conjunction with an antenna gain greater than 6dBi.

For the 7dBi antennas, the limit is 29dBm which was met with the original certification measurements.

Power Spectral Density

Chain	Channel	Freq (MHz)	PSD (dBm/500kHz)	10 log (N=3) dB	Duty Cycle Factor (dB)	Total PSD (dBm/500kHz)	Limit* (dBm)	Required Reduction (dB)
0	149	5745	-0.5	4.77	0.26	4.53	30	0
	157	5785	4.92	4.77	0.26	9.95	30	0
	165	5825	1.07	4.77	0.26	6.1	30	0
1	149	5745	0.91	4.77	0.26	5.94	30	0
	157	5785	4.76	4.77	0.26	9.79	30	0
	165	5825	1.48	4.77	0.26	6.51	30	0
2	149	5745	0.55	4.77	0.26	5.58	30	0
	157	5785	4.21	4.77	0.26	9.24	30	0
	165	5825	0.97	4.77	0.26	6.0	30	0

* The 19dBi antenna is only intended for point-to-point back haul and bridging. Therefore, those power limits defined in 15.407(a)(3) were applied which allows for 30dBm PSD in any 500kHz band in conjunction with an antenna gain greater than 6dBi.

For the 7dBi antennas, the limit is 29dBm which was also met with the original certification measurements.

U-NII-3 Band 802.11n (HT40)

Channel	Freq (MHz)	Measured Conducted Power (dBm)			Aggregate Power (mW)	Aggregate Power (dBm)	Limit* (dBm)	Required Reduction (dB)
		Chain 0	Chain 1	Chain 2				
151	5755	14.27	15.69	15.6	100.106	20	30	0
159	5795	19.02	20.05	19.74	275.146	24.4	30	0

* The 19dBi antenna is only intended for point-to-point back haul and bridging. Therefore, those power limits defined in 15.407(a)(3) were applied which allows for 30dBm conducted power in conjunction with an antenna gain greater than 6dBi.

For the 7dBi antennas, the limit is 29dBm which was met with the original certification measurements.

Power Spectral Density

Chain	Channel	Freq (MHz)	PSD (dBm/500kHz)	10 log (N=3) dB	Duty Cycle Factor (dB)	Total PSD (dBm/500kHz)	Limit* (dBm)	Required Reduction (dB)
0	151	5755	-7.73	4.77	0.74	-2.22	30	0
	159	5795	-1.49	4.77	0.74	4.02	30	0
1	151	5755	-6.5	4.77	0.74	-0.99	30	0
	159	5795	-0.52	4.77	0.74	4.99	30	0
2	151	5755	-6.85	4.77	0.74	-1.34	30	0
	159	5795	-1.56	4.77	0.74	3.95	30	0

* The 19dBi antenna is only intended for point-to-point back haul and bridging. Therefore, those power limits defined in 15.407(a)(3) were applied which allows for 30dBm PSD in any 500kHz band in conjunction with an antenna gain greater than 6dBi.

For the 7dBi antennas, the limit is 29dBm which was also met with the original certification measurements.

U-NII-3 Band 802.11ac (VHT80)

Channel	Freq (MHz)	Measured Conducted Power (dBm)			Aggregate Power (mW)	Aggregate Power (dBm)	Limit* (dBm)	Required Reduction (dB)
		Chain 0	Chain 1	Chain 2				
155	5775	4.81	6.14	5.45	10.646	10.27	30	0

* The 19dBi antenna is only intended for point-to-point back haul and bridging. Therefore, those power limits defined in 15.407(a)(3) were applied which allows for 30dBm conducted power in conjunction with an antenna gain greater than 6dBi.

For the 7dBi antennas, the limit is 29dBm which was met with the original certification measurements.

Power Spectral Density

Chain	Channel	Freq (MHz)	PSD (dBm/500kHz)	10 log (N=3) dB	Duty Cycle Factor (dB)	Total PSD (dBm/500kHz)	Limit* (dBm)	Required Reduction (dB)
0	155	5775	-21.25	4.77	1.21	-15.27	30	0
1	155	5775	-18.84	4.77	1.21	-12.86	30	0
2	155	5775	-20.35	4.77	1.21	-14.37	30	0

* The 19dBi antenna is only intended for point-to-point back haul and bridging. Therefore, those power limits defined in 15.407(a)(3) were applied which allows for 30dBm PSD in any 500kHz band in conjunction with an antenna gain greater than 6dBi.

For the 7dBi antennas, the limit is 29dBm which was also met with the original certification measurements.

Summary

The power reductions in the following tables are required to maintain compliance with all of the requirements defined in Sections 15.407(a)(1)(i), 15.407(a)(1)(iii), and 15.407(a)(3) when using these higher gain antennas:

19 dBi Triple Polarization Directional Antenna (P/N: M5016019D30006I)

No reduction required - The 19dBi antenna is only intended for point-to-point back haul and bridging. Therefore, those power limits defined in 15.407(a)(1)(iii) and 15.407(a)(3) were applied.

7 dBi High Density MIMO Patch Array (P/N: M6013070P30006I)

Band	Modulation	Channel	Frequency	Reduction
U-NII-1	802.11a	36	5180	6.03
		40	5200	8.00
		48	5240	8.22
	802.11n (HT20)	36	5180	6.14
		40	5200	7.9
		48	5240	8.12
	802.11n (HT40)	38	5190	1.45
		46	5230	8.37
	802.11ac (VHT80)	42	5210	0
U-NII-3	802.11a	149	5745	0
		157	5785	0
		165	5825	0
	802.11n (HT20)	149	5745	0
		157	5785	0
		165	5825	0
	802.11n (HT40)	151	5755	0
		159	5795	0
	802.11ac (VHT80)	155	5775	0

7 dBi Dual Band MIMO Patch Antenna (P/N: M6060070MP13620)

Band	Modulation	Channel	Frequency	Reduction
U-NII-1	802.11a	36	5180	5.03
		40	5200	7.00
		48	5240	7.22
	802.11n (HT20)	36	5180	5.14
		40	5200	6.9
		48	5240	7.12
	802.11n (HT40)	38	5190	0.45
		46	5230	7.37
	802.11ac (VHT80)	42	5210	0
U-NII-3	802.11a	149	5745	0
		157	5785	0
		165	5825	0
	802.11n (HT20)	149	5745	0
		157	5785	0
		165	5825	0
	802.11n (HT40)	151	5755	0
		159	5795	0
	802.11ac (VHT80)	155	5775	0