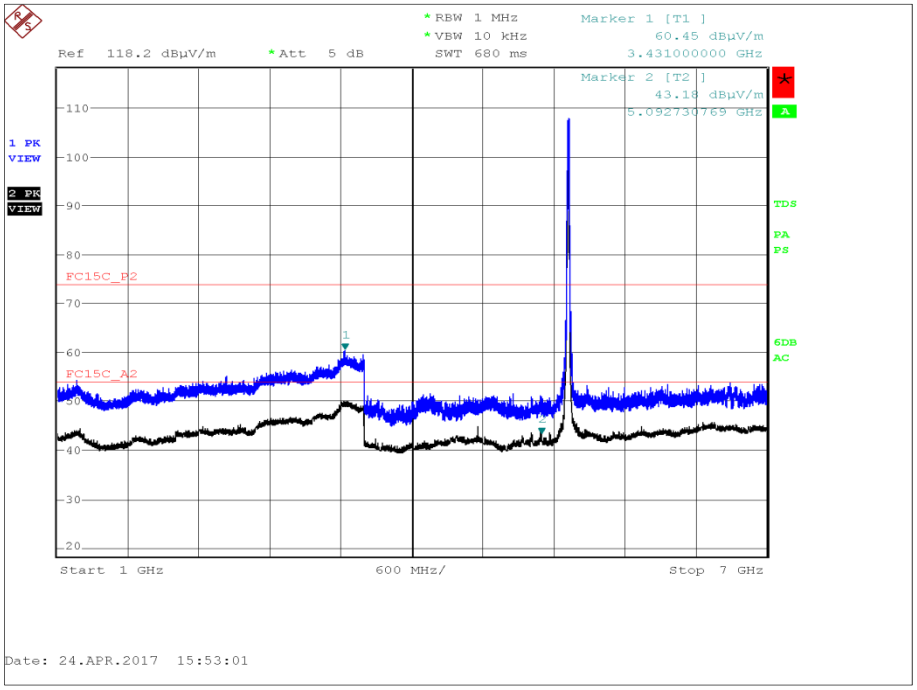

Figure 268 - U-NII 2a - 5320 MHz - 1 GHz to 7 GHz - Horizontal and Vertical

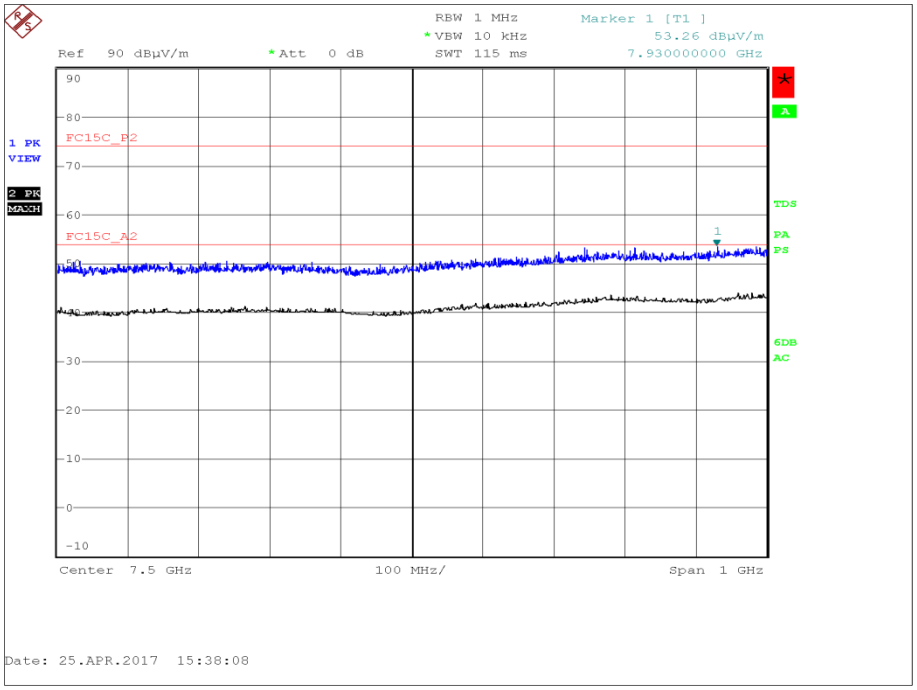

Figure 269 - U-NII 2a - 5320 MHz - 7 GHz to 8 GHz - Horizontal and Vertical

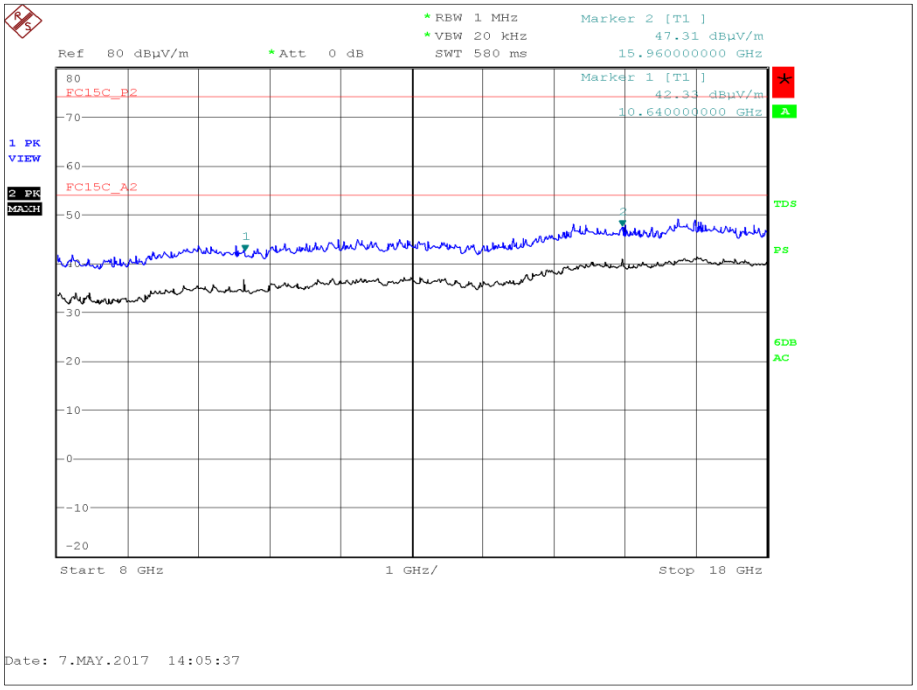

Figure 270 - U-NII 2a - 5320 MHz - 8 GHz to 18 GHz - Horizontal and Vertical

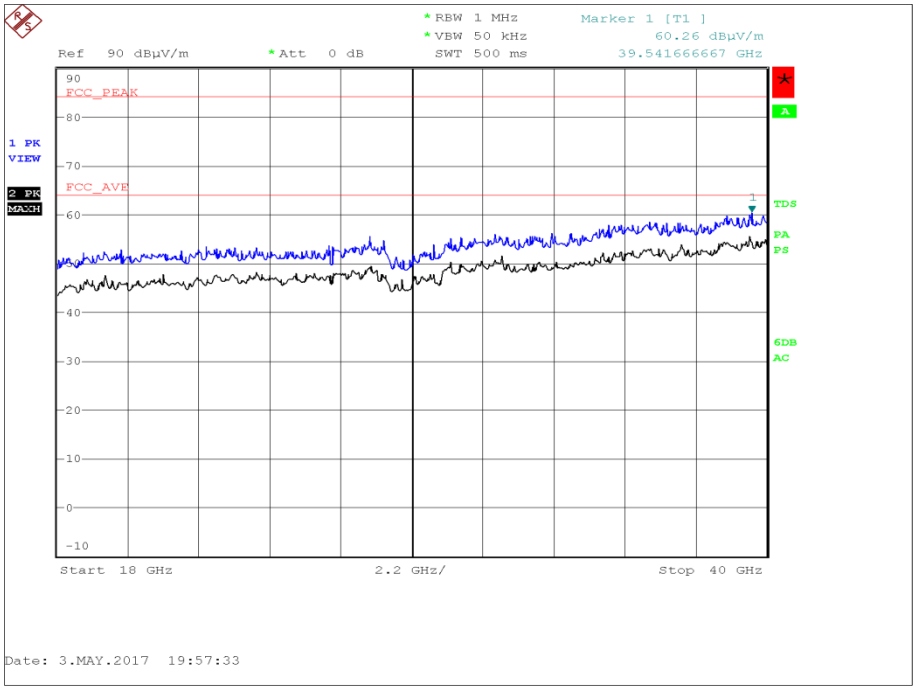

Figure 271 - U-NII 2a - 5320 MHz - 18 GHz to 40 GHz - Horizontal and Vertical

Frequency (MHz)	QP Level (dBuV/m)	QP Limit (dBuV/m)	QP Margin (dBuV/m)	Angle(Deg)	Height(m)	Polarity
37.500	27.0	40.0	-13.0	360	1.00	Horizontal
169.356	33.3	43.5	-10.2	37	1.00	Vertical
260.508	36.4	46.0	-9.6	167	1.00	Horizontal
326.646	33.4	46.0	-12.6	321	1.00	Horizontal
410.000	27.2	46.0	-18.8	87	1.00	Horizontal
614.000	30.7	46.0	-15.3	356	1.00	Horizontal

Table 176 - U-NII 2c - 5500 MHz - 30 MHz to 1 GHz

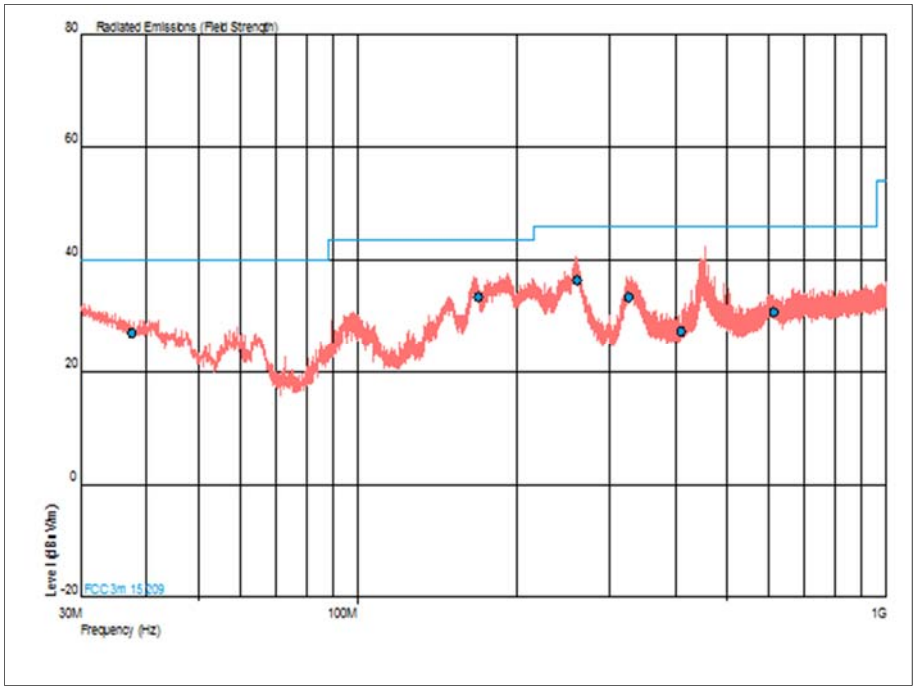

Figure 272 - U-NII 2c - 5500 MHz - 30 MHz to 1 GHz - Horizontal and Vertical

Frequency (GHz)	Result (µV/m)		Limit (µV/m)		Margin (µV/m)	
	Peak	Average	Peak	Average	Peak	Average
*						

Table 177 - U-NII 2c - 5500 MHz - 1 GHz to 40 GHz

*No emissions were detected within 6 dB of the limit.

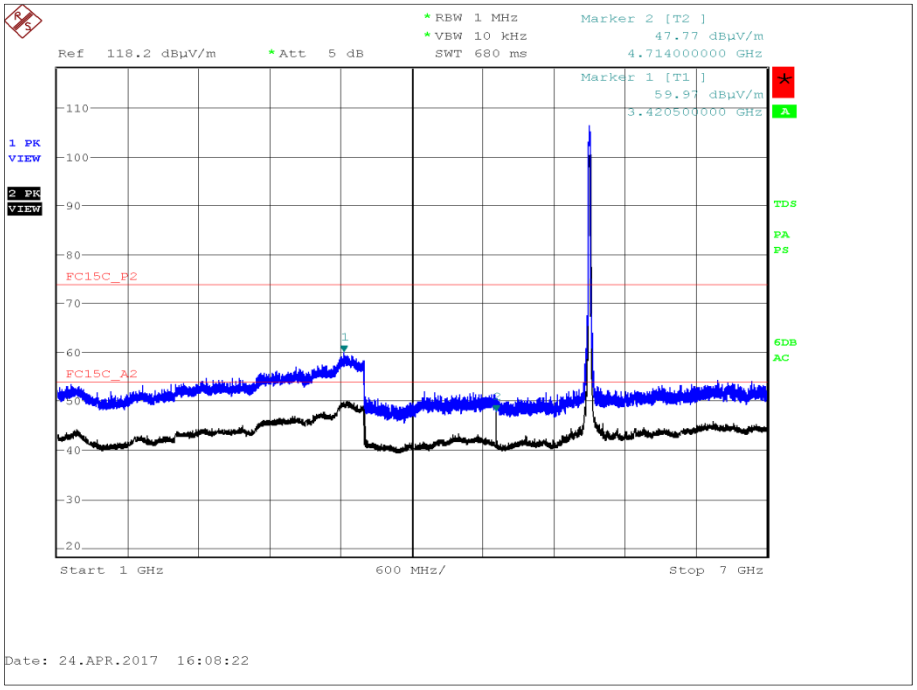

Figure 273 - U-NII 2c - 5500 MHz - 1 GHz to 7 GHz - Horizontal and Vertical

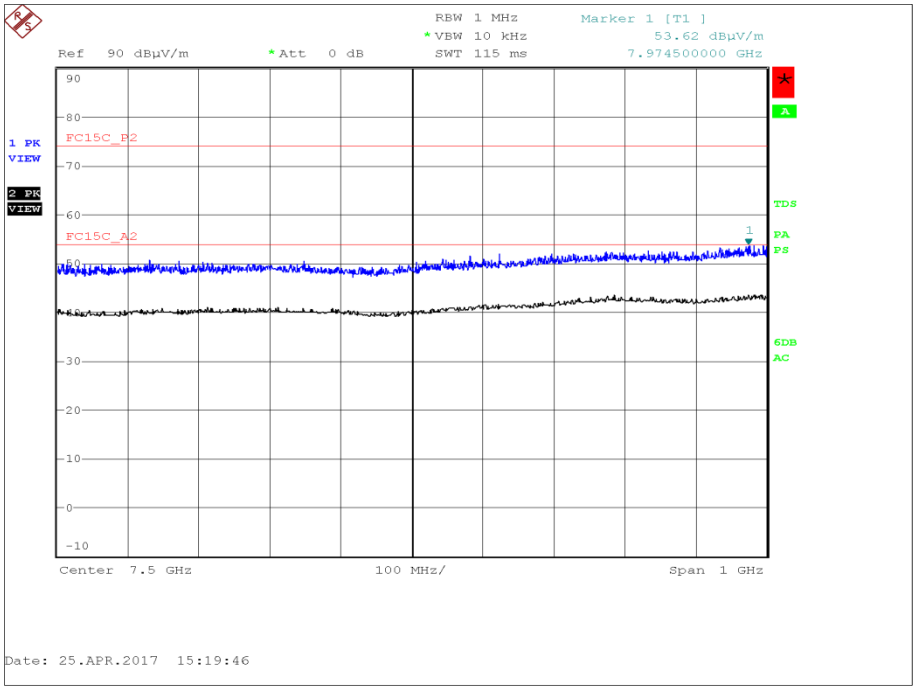

Figure 274 - U-NII 2c - 5500 MHz - 7 GHz to 8 GHz - Horizontal and Vertical

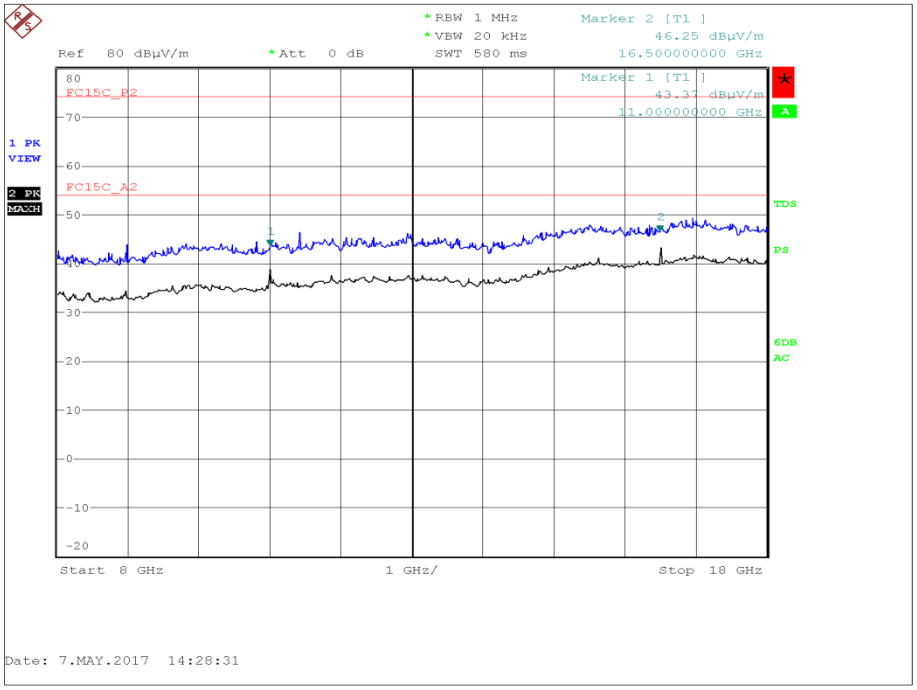

Figure 275 - U-NII 2c - 5500 MHz - 8 GHz to 18 GHz - Horizontal and Vertical

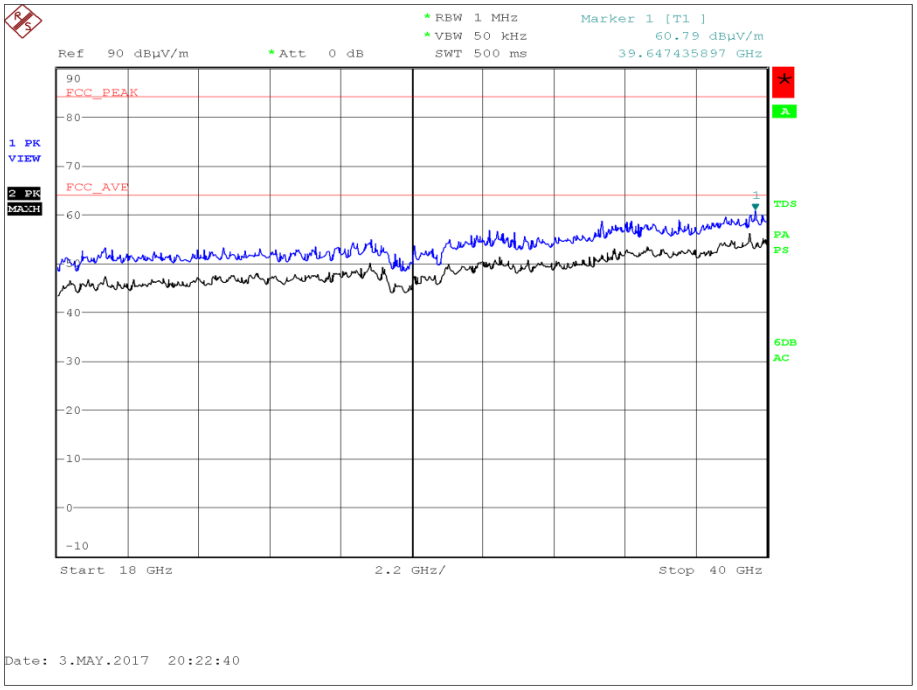

Figure 276 - U-NII 2c - 5500 MHz - 18 GHz to 40 GHz - Horizontal and Vertical

Frequency (MHz)	QP Level (dBuV/m)	QP Limit (dBuV/m)	QP Margin (dBuV/m)	Angle(Deg)	Height(m)	Polarity
37.500	26.8	40.0	-13.2	291	1.00	Horizontal
171.365	32.0	43.5	-11.5	50	1.00	Vertical
260.702	34.8	46.0	-11.2	172	1.00	Horizontal
330.375	32.3	46.0	-13.7	69	1.00	Horizontal
410.000	28.5	46.0	-17.5	165	1.00	Horizontal
614.000	30.4	46.0	-15.6	327	1.00	Horizontal

Table 178 - U-NII 2c - 5600 MHz - 30 MHz to 1 GHz

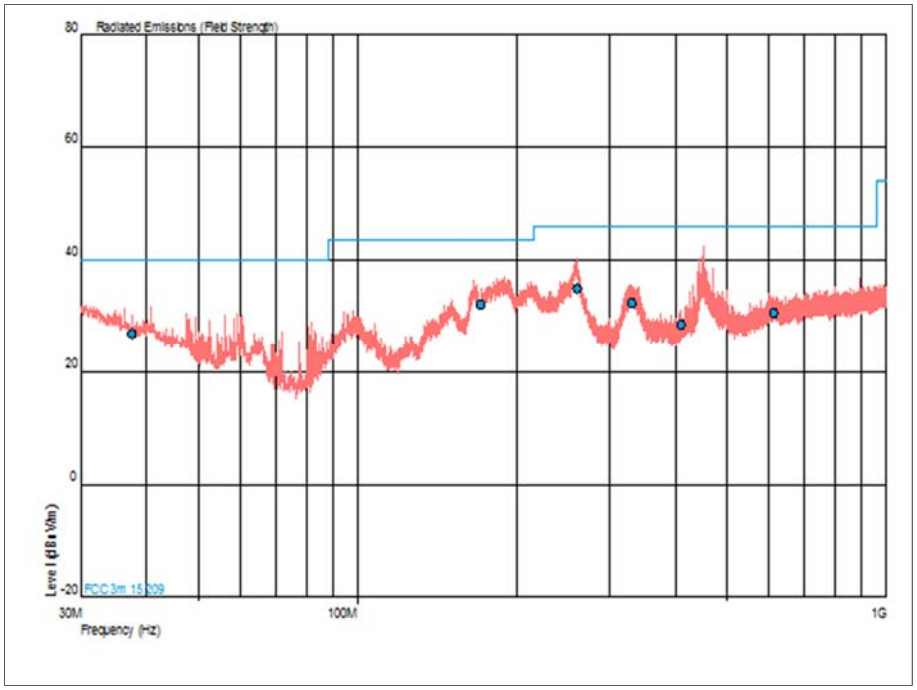

Figure 277 - U-NII 2c - 5600 MHz - 30 MHz to 1 GHz - Horizontal and Vertical

Frequency (GHz)	Result (µV/m)		Limit (µV/m)		Margin (µV/m)	
	Peak	Average	Peak	Average	Peak	Average
*						

Table 179 - U-NII 2c - 5600 MHz - 1 GHz to 40 GHz

*No emissions were detected within 6 dB of the limit.

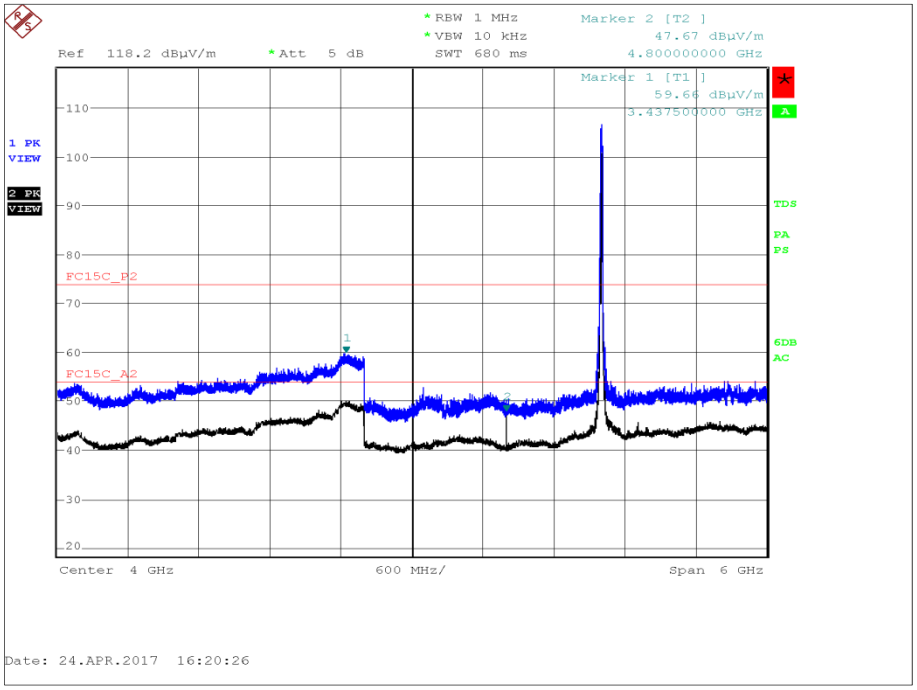

Figure 278 - U-NII 2c - 5600 MHz - 1 GHz to 7 GHz - Horizontal and Vertical

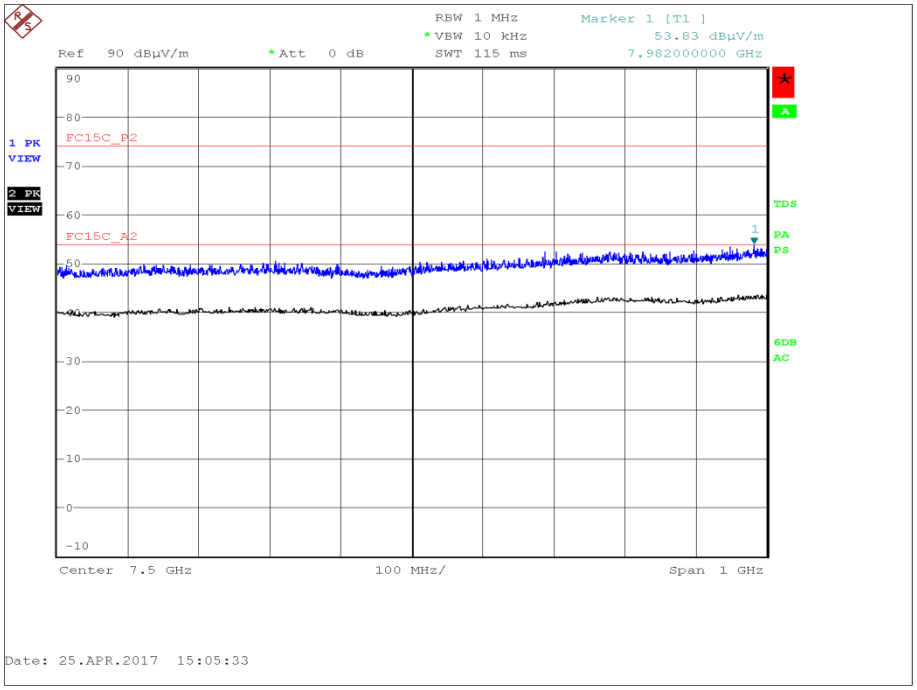

Figure 279 - U-NII 2c - 5600 MHz - 7 GHz to 8 GHz - Horizontal and Vertical

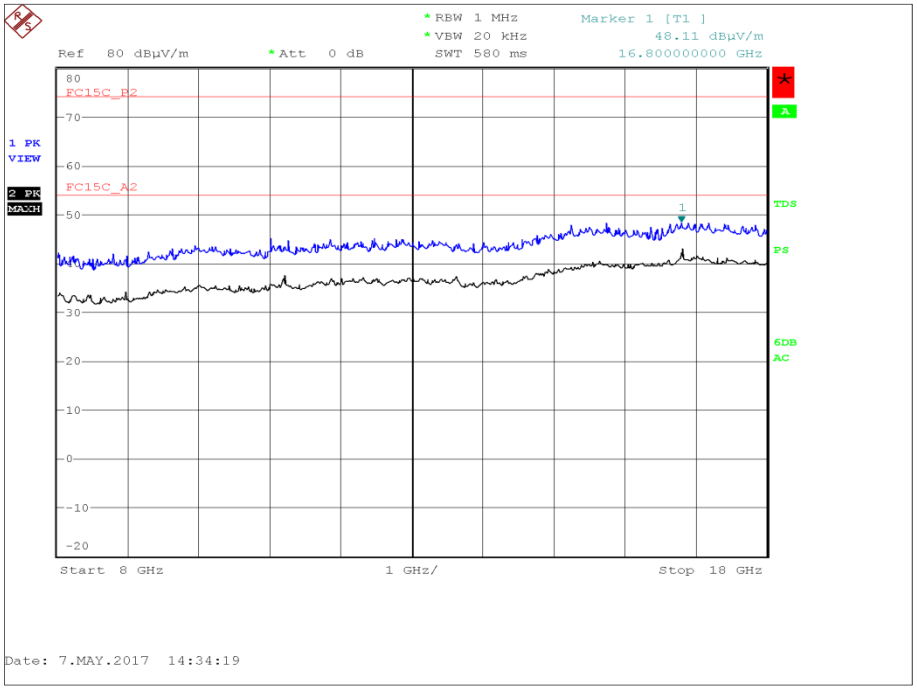

Figure 280 - U-NII 2c - 5600 MHz - 8 GHz to 18 GHz - Horizontal and Vertical

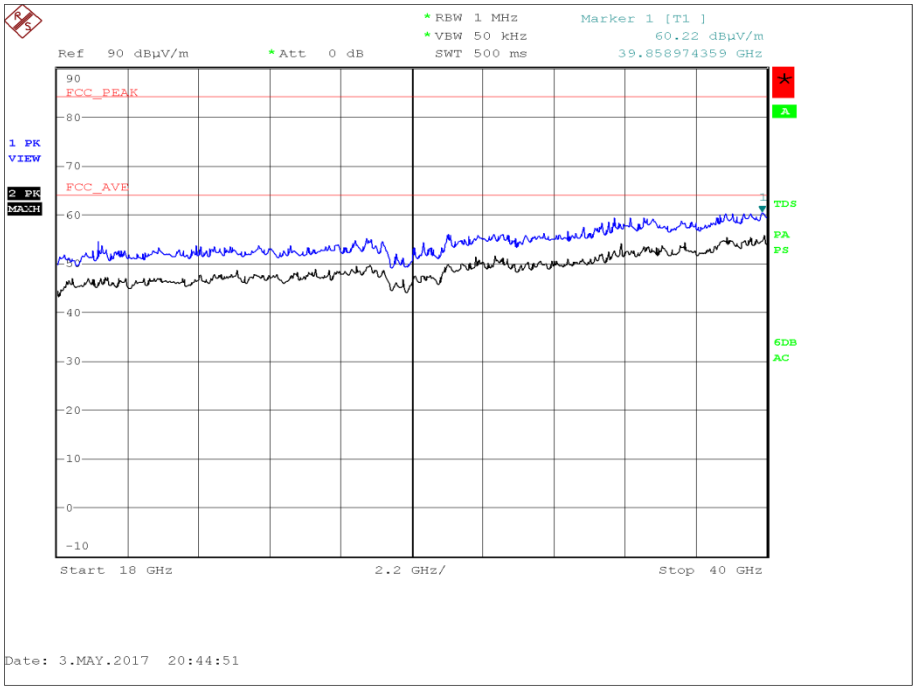

Figure 281 - U-NII 2c - 5600 MHz - 18 GHz to 40 GHz - Horizontal and Vertical

Frequency (MHz)	QP Level (dBuV/m)	QP Limit (dBuV/m)	QP Margin (dBuV/m)	Angle(Deg)	Height(m)	Polarity
37.500	27.0	40.0	-13.0	149	1.00	Vertical
172.817	32.2	43.5	-11.3	44	1.00	Vertical
260.560	34.1	46.0	-11.9	165	1.00	Horizontal
327.354	30.6	46.0	-15.4	73	1.00	Horizontal
410.000	27.2	46.0	-18.8	360	1.00	Horizontal
614.000	30.6	46.0	-15.4	153	1.00	Horizontal

Table 180 - U-NII 2c - 5700 MHz - 30 MHz to 1 GHz

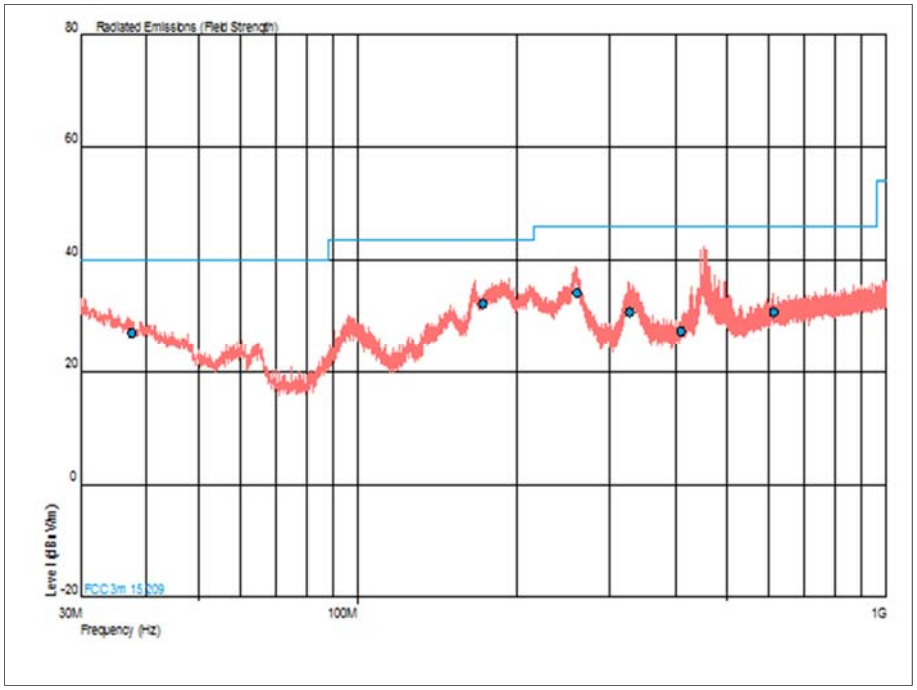

Figure 282 - U-NII 2c - 5700 MHz - 30 MHz to 1 GHz - Horizontal and Vertical

Frequency (GHz)	Result (µV/m)		Limit (µV/m)		Margin (µV/m)	
	Peak	Average	Peak	Average	Peak	Average
4.885	56.67	50.78	74.00	54.00	17.33	3.22

Table 181 - U-NII 2c - 5700 MHz - 1 GHz to 40 GHz

No other emissions were detected within 6 dB of the limit.

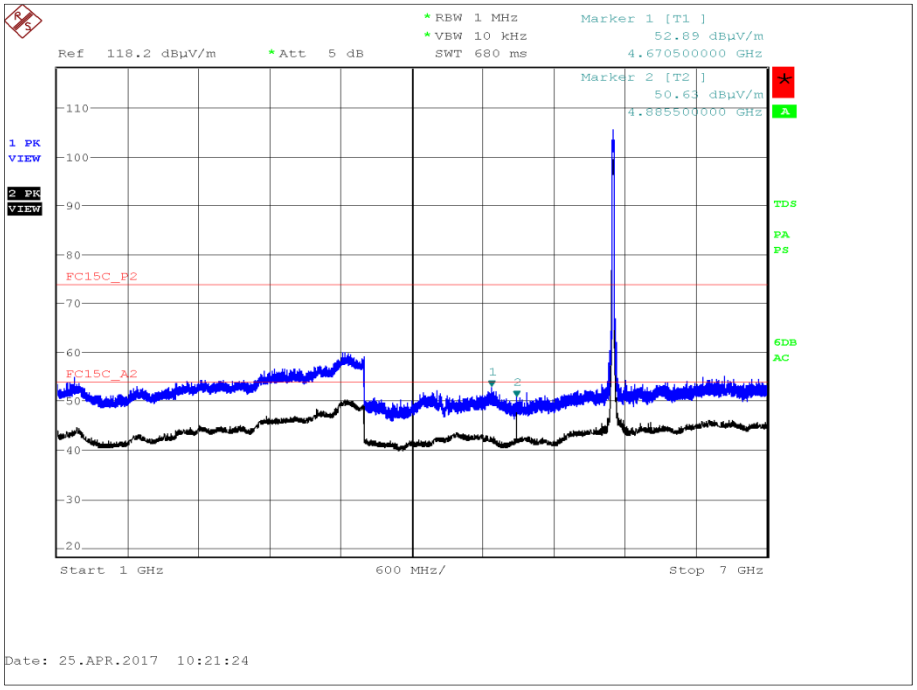

Figure 283 - U-NII 2c - 5700 MHz - 1 GHz to 7 GHz - Horizontal and Vertical

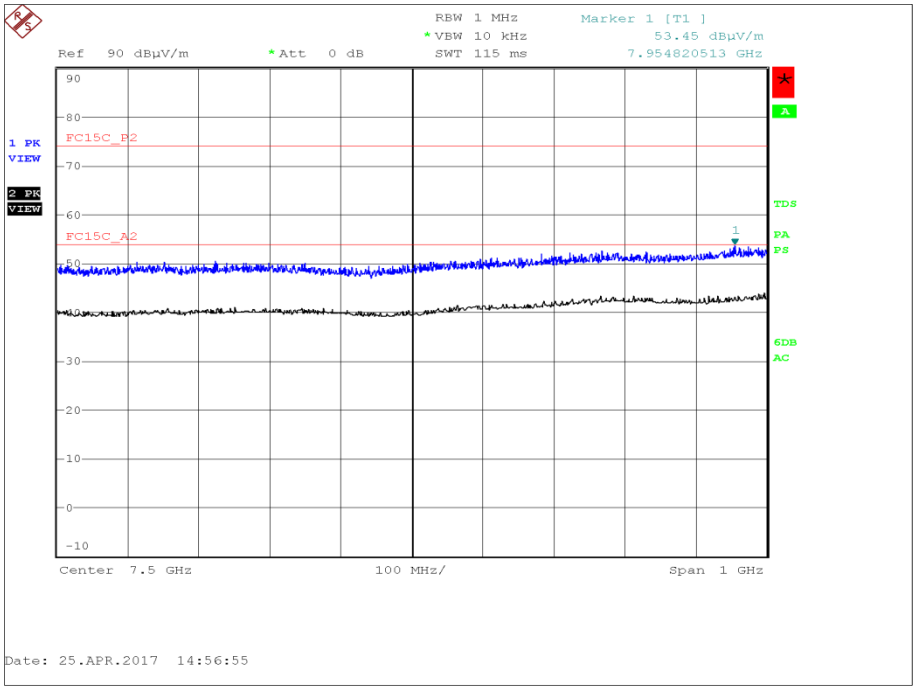

Figure 284 - U-NII 2c - 5700 MHz - 7 GHz to 8 GHz - Horizontal and Vertical

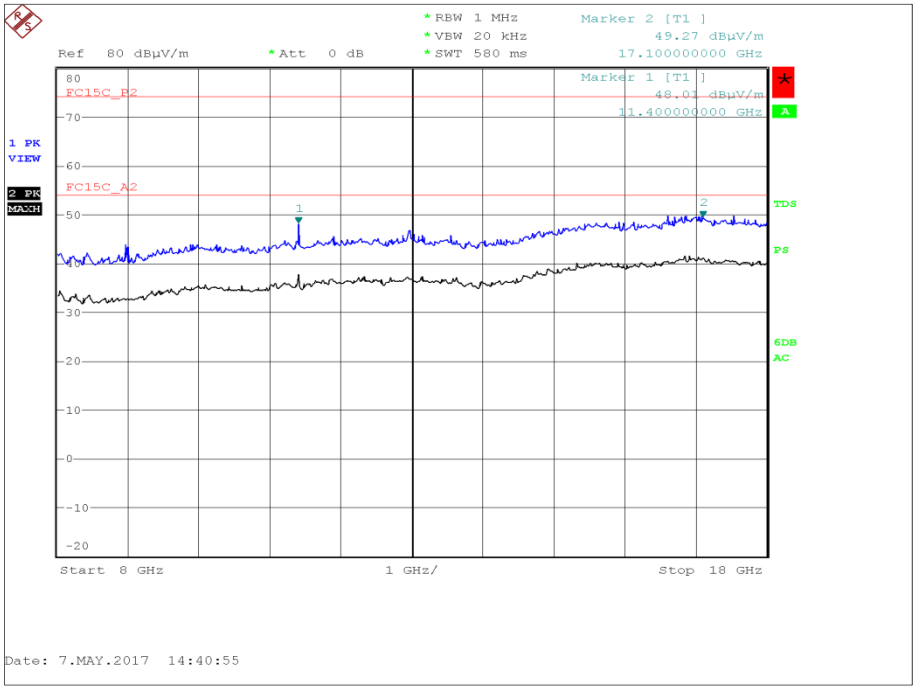

Figure 285 - U-NII 2c - 5700 MHz - 8 GHz to 18 GHz - Horizontal and Vertical

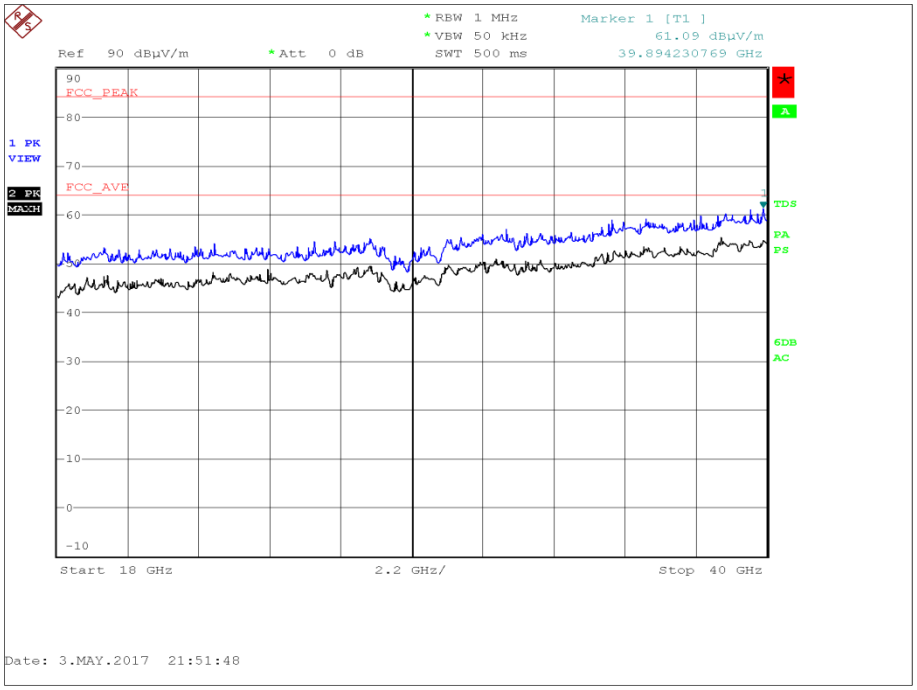

Figure 286 - U-NII 2c - 5700 MHz - 18 GHZ to 40 GHz - Horizontal and Vertical

Frequency (MHz)	QP Level (dBuV/m)	QP Limit (dBuV/m)	QP Margin (dBuV/m)	Angle(Deg)	Height(m)	Polarity
37.500	26.9	40.0	-13.1	271	1.00	Vertical
171.144	29.9	43.5	-13.6	20	1.00	Vertical
260.399	31.8	46.0	-14.2	18	1.00	Horizontal
327.292	26.2	46.0	-19.8	65	1.00	Horizontal
410.000	27.2	46.0	-18.8	8	1.00	Horizontal
614.000	30.5	46.0	-15.5	142	1.00	Horizontal

Table 182 - U-NII 3 - 5745 MHz - 30 MHz to 1 GHz

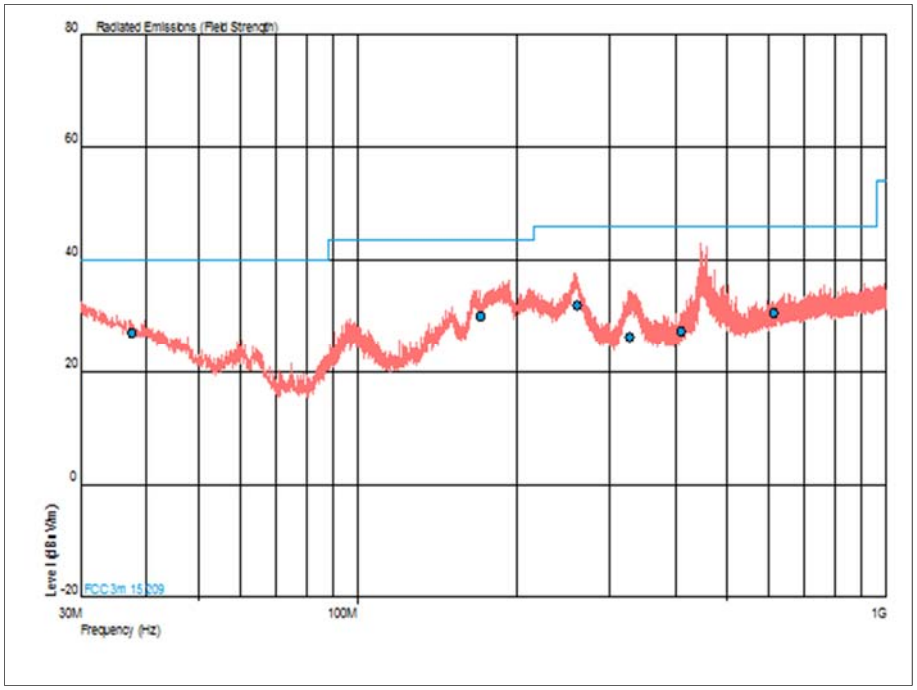

Figure 287 - U-NII 3 - 5745 MHz - 30 MHz to 1 GHz - Horizontal and Vertical

Frequency (GHz)	Result (µV/m)		Limit (µV/m)		Margin (µV/m)	
	Peak	Average	Peak	Average	Peak	Average
4.924	57.21	51.43	74.00	54.00	16.79	2.57

Table 183 - U-NII 3 - 5745 MHz - 1 GHz to 40 GHz

No other emissions were detected within 6 dB of the limit.

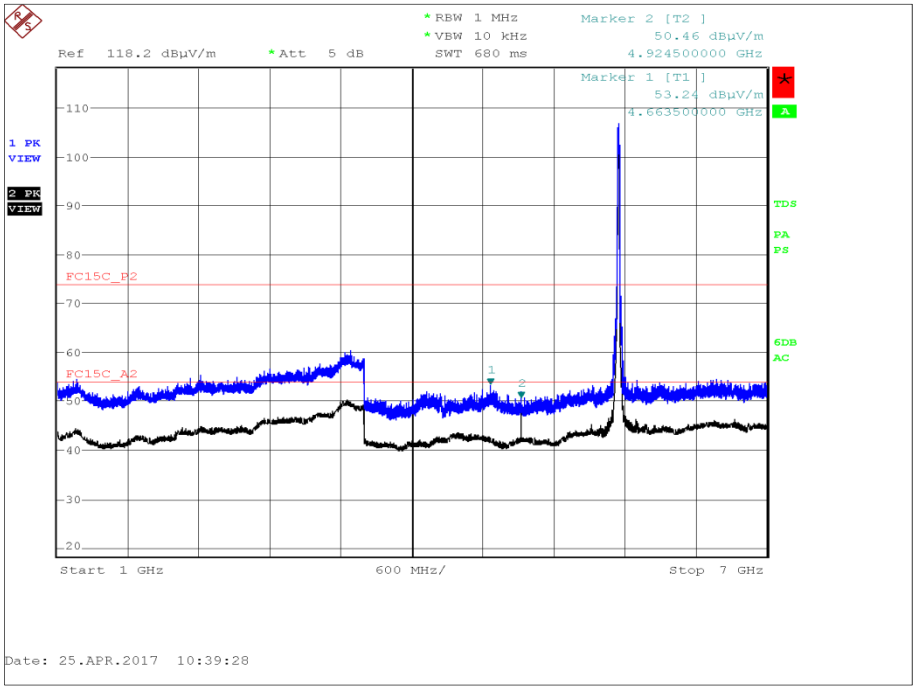

Figure 288 - U-NII 3 - 5745 MHz - 1 GHz to 7 GHz - Horizontal and Vertical

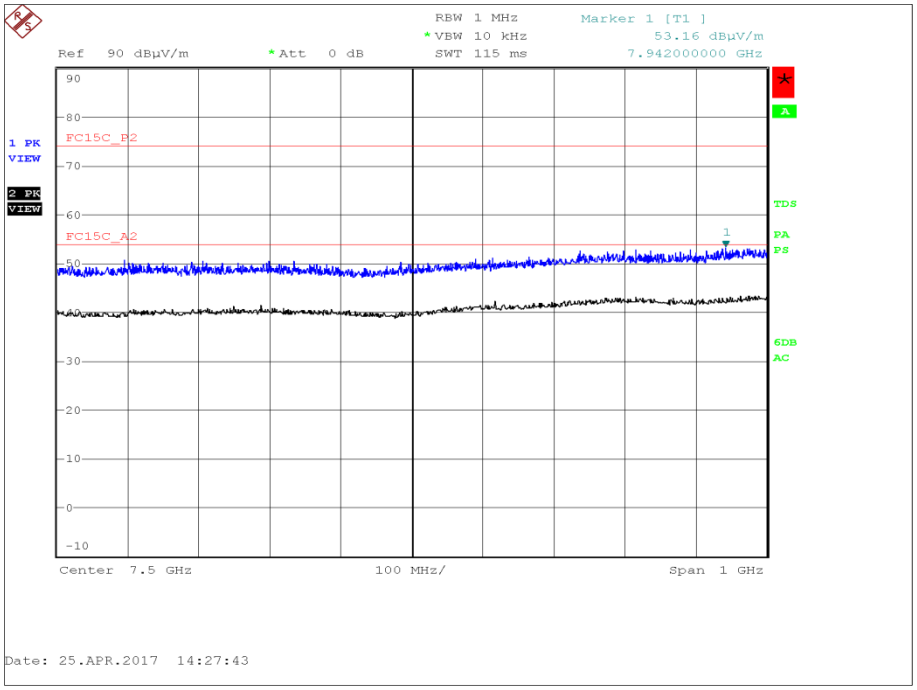

Figure 289 - U-NII 3 - 5745 MHz - 7 GHZ to 8 GHz - Horizontal and Vertical

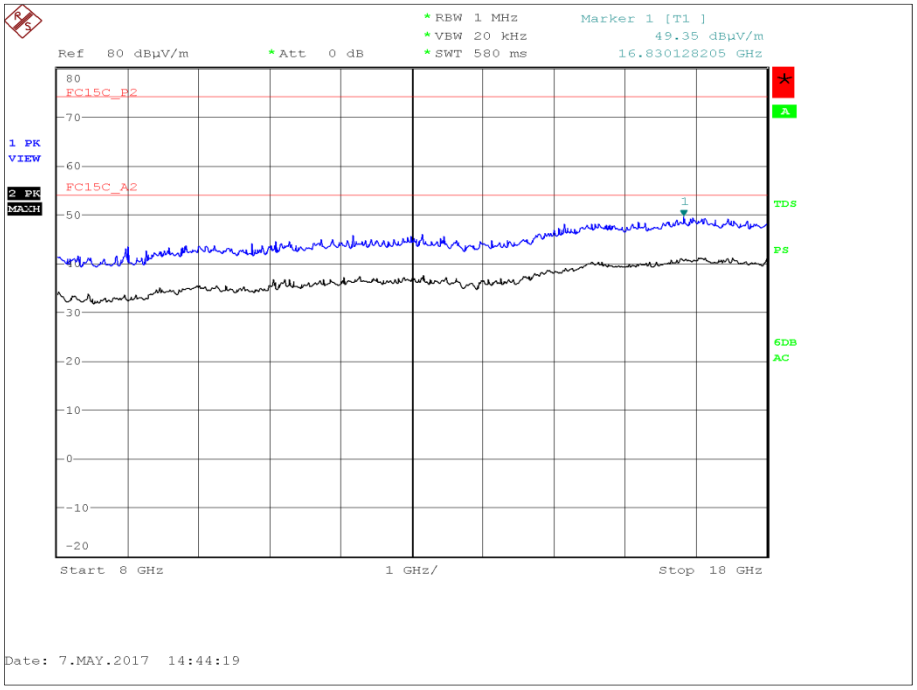

Figure 290 - U-NII 3 - 5745 MHz - 8 GHz to 18 GHz - Horizontal and Vertical

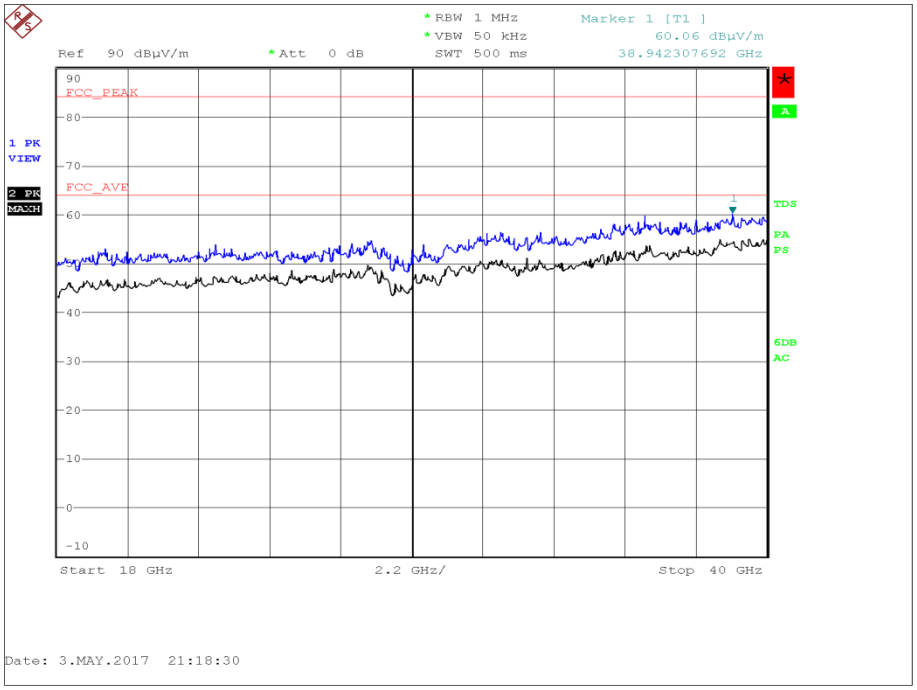

Figure 291 - U-NII 3 - 5745 MHz - 18 GHZ to 40 GHz - Horizontal and Vertical

Frequency (MHz)	QP Level (dBuV/m)	QP Limit (dBuV/m)	QP Margin (dBuV/m)	Angle(Deg)	Height(m)	Polarity
37.500	26.9	40.0	-13.1	137	1.00	Vertical
172.417	27.8	43.5	-15.7	352	1.00	Vertical
260.866	29.1	46.0	-16.9	0	1.00	Horizontal
326.604	29.8	46.0	-16.2	188	1.00	Horizontal
410.000	27.2	46.0	-18.8	0	1.00	Horizontal
610.000	30.5	46.0	-15.5	320	1.00	Horizontal

Table 184 - U-NII 3 - 5785 MHz - 30 MHz to 1 GHz

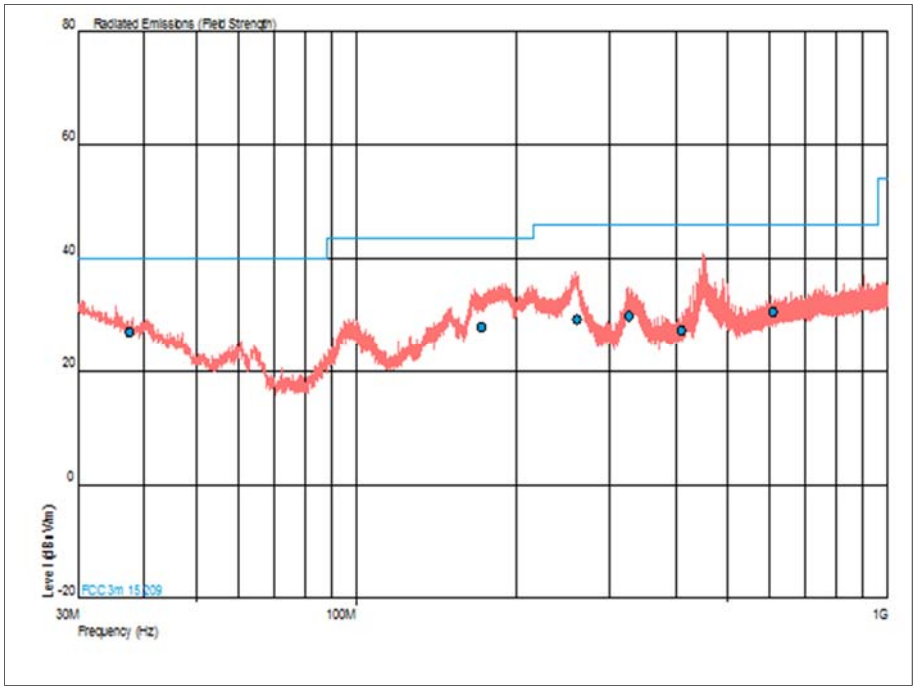

Figure 292 - U-NII 3 - 5785 MHz - 30 MHz to 1 GHz - Horizontal and Vertical

Frequency (GHz)	Result (µV/m)		Limit (µV/m)		Margin (µV/m)	
	Peak	Average	Peak	Average	Peak	Average
4.958	57.40	52.15	74.00	54.00	16.6	1.85

Table 185 - U-NII 3 - 5785 MHz - 1 GHz to 40 GHz

No other emissions were detected within 6 dB of the limit.

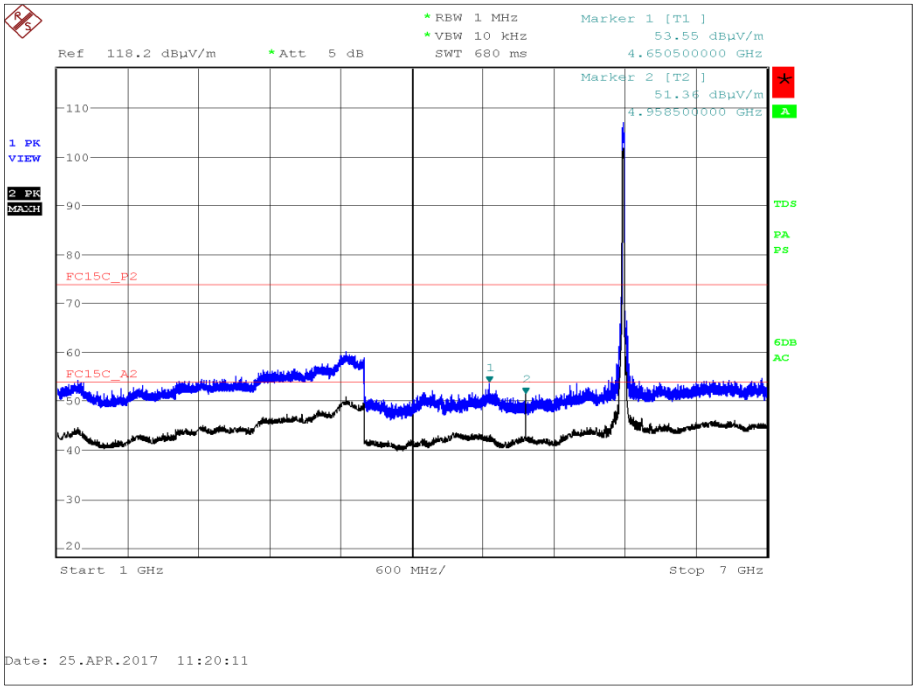

Figure 293 - U-NII 3 - 5785 MHz - 1 GHz to 7 GHz - Horizontal and Vertical

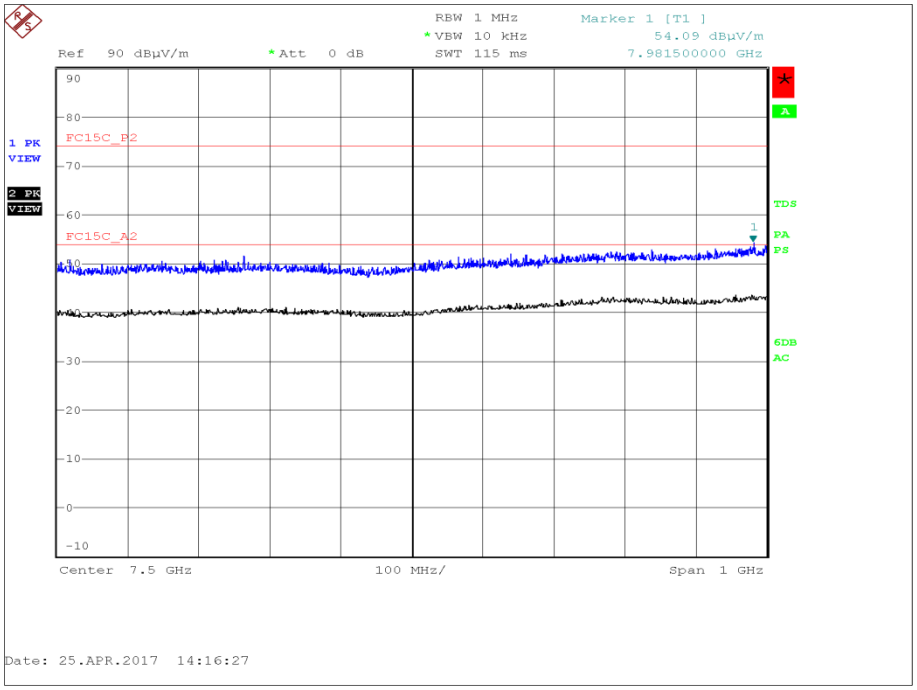

Figure 294 - U-NII 3 - 5785 MHz - 7 GHz to 8 GHz - Horizontal and Vertical

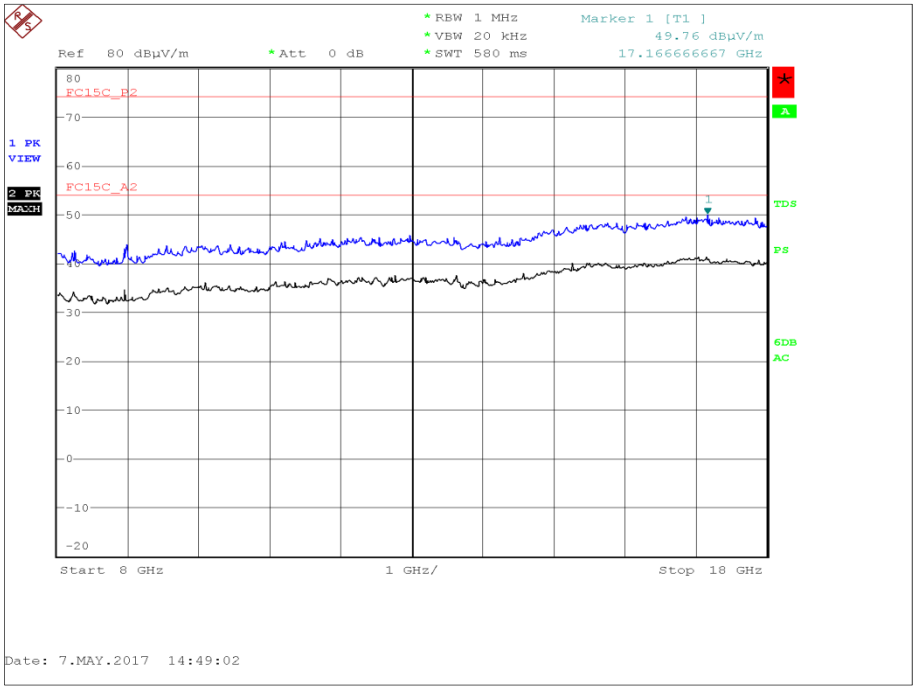

Figure 295 - U-NII 3 - 5785 MHz - 8 GHz to 18 GHz - Horizontal and Vertical

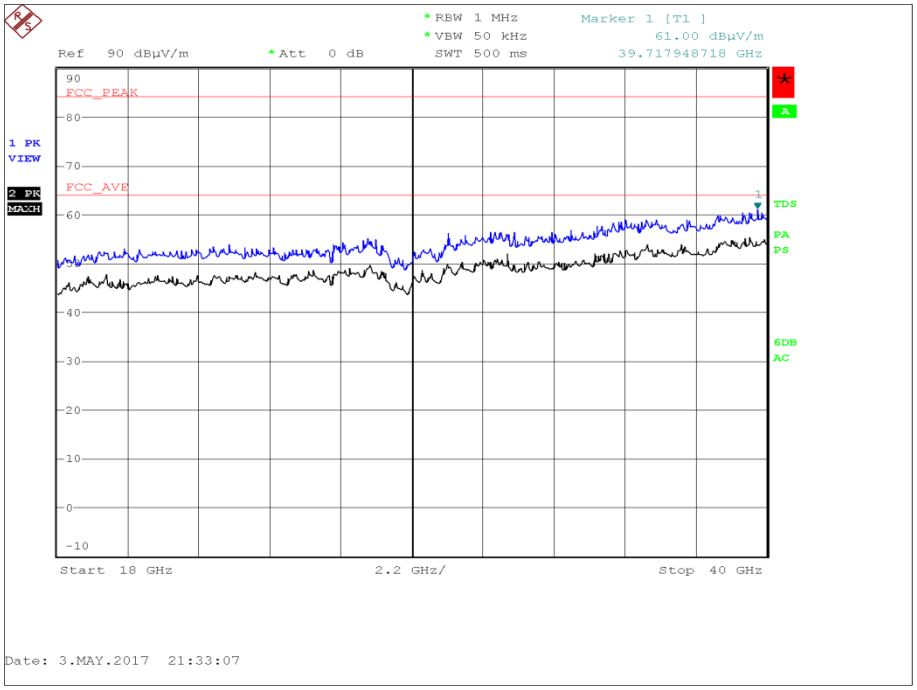

Figure 296 - U-NII 3 - 5785 MHz - 18 GHz to 40 GHz - Horizontal and Vertical

Frequency (MHz)	QP Level (dBuV/m)	QP Limit (dBuV/m)	QP Margin (dBuV/m)	Angle(Deg)	Height(m)	Polarity
37.500	26.9	40.0	-13.1	360	1.00	Vertical
169.933	26.2	43.5	-17.3	30	1.00	Vertical
259.704	26.2	46.0	-19.8	322	1.00	Horizontal
330.691	25.3	46.0	-20.7	297	1.00	Horizontal
410.000	27.1	46.0	-18.9	212	1.00	Horizontal
614.000	30.6	46.0	-15.4	154	1.00	Horizontal

Table 186 - U-NII 3 - 5825 MHz - 30 MHz to 1 GHz

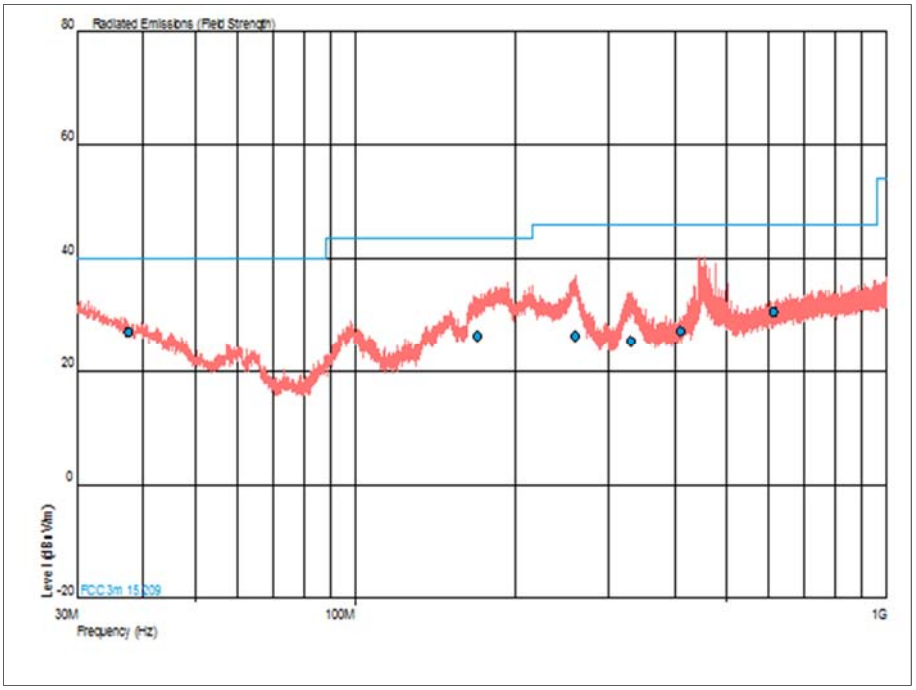

Figure 297 - U-NII 3 - 5825 MHz - 30 MHz to 1 GHz - Horizontal and Vertical

Frequency (GHz)	Result (µV/m)		Limit (µV/m)		Margin (µV/m)	
	Peak	Average	Peak	Average	Peak	Average
4.992	58.27	52.65	74.00	54.00	15.73	1.35

Table 187 - U-NII 3 - 5825 MHz - 1 GHz to 40 GHz

No other emissions were detected within 6 dB of the limit.

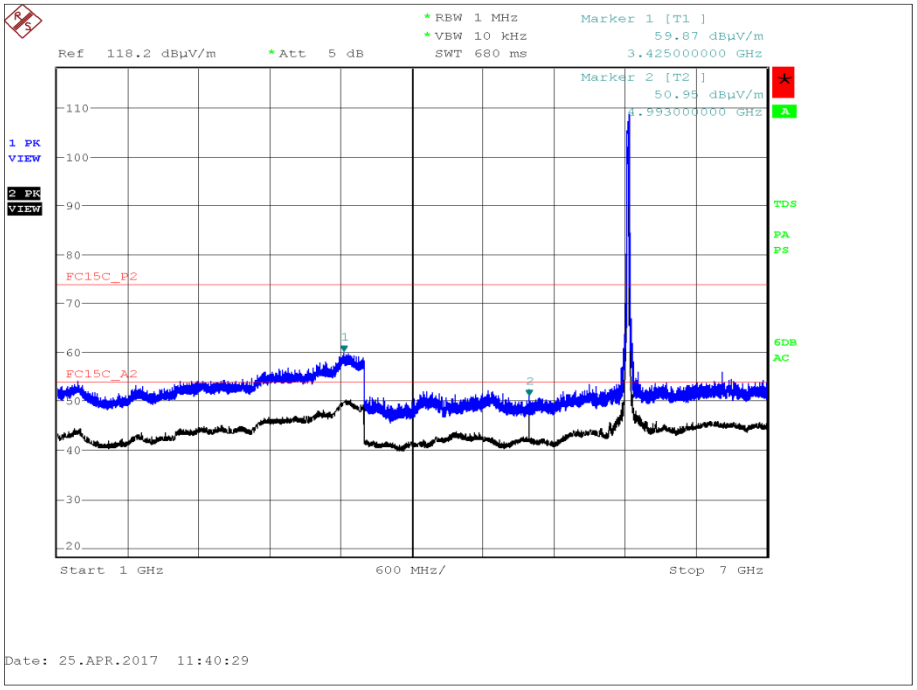

Figure 298 - U-NII 3 - 5825 MHz - 1 GHz to 7 GHz - Horizontal and Vertical

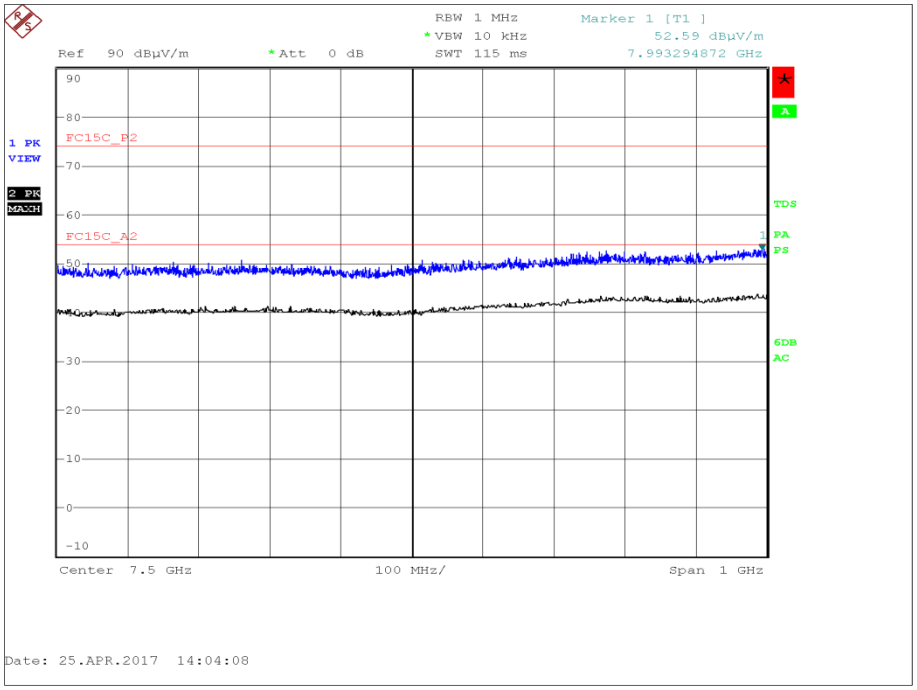

Figure 299 - U-NII 3 - 5825 MHz - 7 GHz to 8 GHz - Horizontal and Vertical

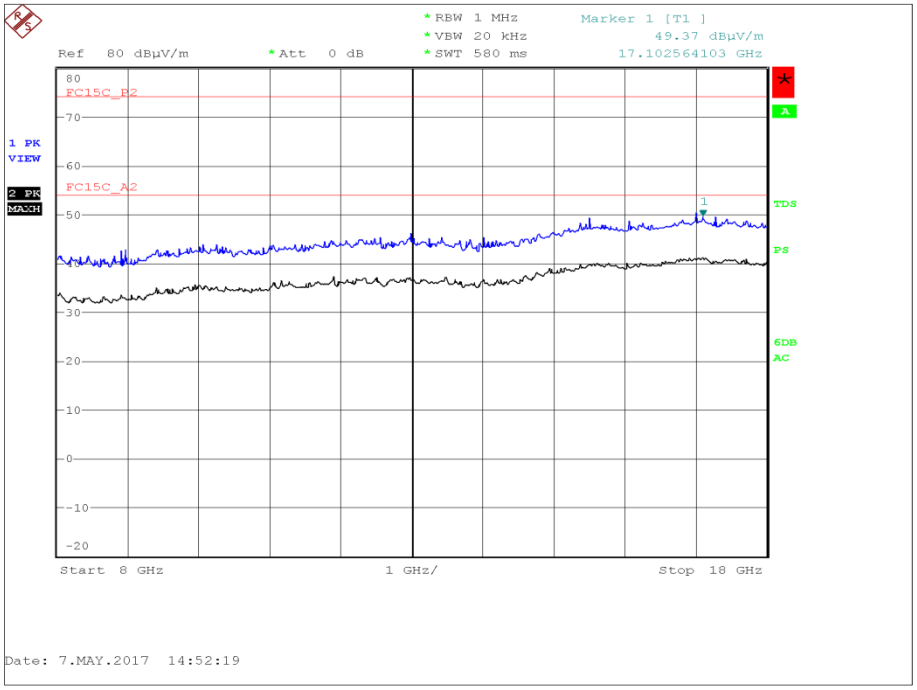

Figure 300 - U-NII 3 - 5825 MHz - 8 GHz to 18 GHz - Horizontal and Vertical

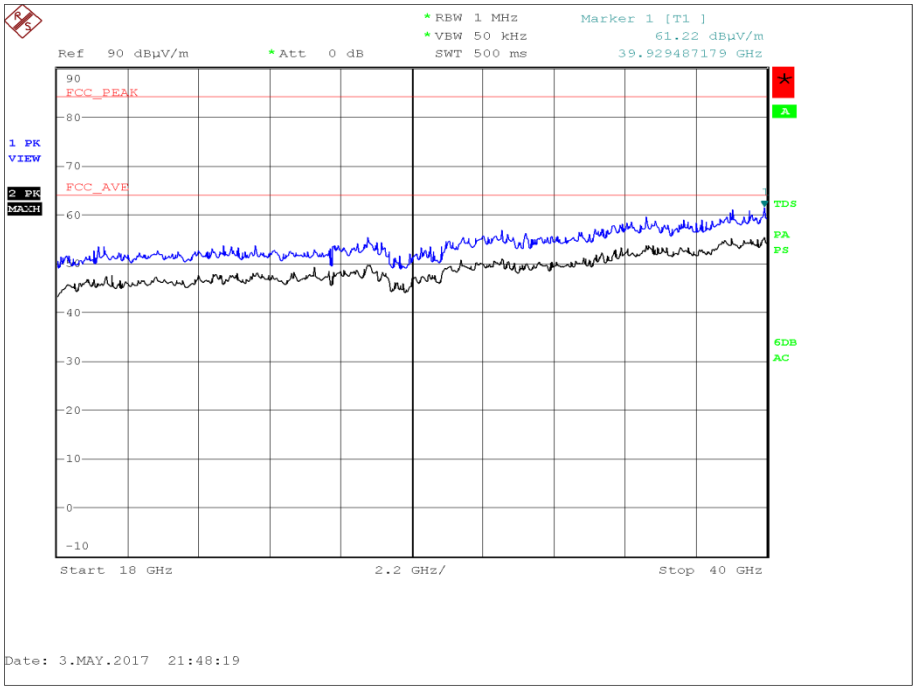

Figure 301 - U-NII 3 - 5825 MHz - 18 GHz to 40 GHz - Horizontal and Vertical

FCC 47 CFR Part 15E, Limit Clause 15.407(b)(1)(2)(3)(4)

Emissions not falling within the restricted bands listed in FCC 47 CFR Part 15E, Clause 15.209:

For transmitters operating in the 5.15-5.25 GHz band: ≤-27 dBm/MHz outside 5150-5350 MHz.
For transmitters operating in the 5.25-5.35 GHz band: ≤-27 dBm/MHz outside 5150-5350 MHz.
For transmitters operating in the 5.47-5.725 GHz band: ≤-27 dBm/MHz outside 5470-5725 MHz
For transmitters operating in the 5.725-5.85 GHz band: All emissions within the frequency range from the band edge to 10 MHz above or below the band edge shall not exceed an e.i.r.p. of -17 dBm/MHz; for frequencies 10 MHz or greater above or below the band edge, emissions shall not exceed an e.i.r.p. of -27 dBm/MHz.

Emissions within the restricted bands listed in FCC 47 CFR Part 15E, Clause 15.209:

Frequency (MHz)	Field Strength (µV/m)	Measurement Distance (m)
0.009 to 0.490	2400/F(kHz)	300
0.490 to 1.705	24000/F(kHz)	30
1.705 to 30	30	30
30 to 88	100	3
88 to 216	150	3
216 to 960	200	3
Above 960	500	3

Industry Canada RSS-247, Limit Clause 6.2.1.2, 6.2.2.2, 6.2.3.2 and 6.2.4.2 and
Industry Canada RSS-GEN, Limit Clause 8.9

Emissions not falling within the restricted bands listed in Industry Canada RSS-GEN, Clause 8.10:

For transmitters with operating frequencies in the band 5150-5250 MHz, all emissions outside the band 5150-5350 MHz shall not exceed -27 dBm/MHz e.i.r.p. Any unwanted emissions that fall into the band 5250-5350 MHz shall be attenuated below the channel power by at least 26 dB.

For transmitters with operating frequencies in the bands 5250-5350 MHz and 5470-5725 MHz, all emissions outside the band 5250-5350 MHz and 5470-5725 MHz shall not exceed -27 dBm/MHz e.i.r.p.

Devices operating in the band 5725-5850 MHz shall have e.i.r.p. of unwanted emissions comply with the following:

a) 27 dBm/MHz at frequencies from the band edges decreasing linearly to 15.6 dBm/MHz at 5 MHz above or below the band edges;
b) 15.6 dBm/MHz at 5 MHz above or below the band edges decreasing linearly to 10 dBm/MHz at 25 MHz above or below the band edges;
c) 10 dBm/MHz at 25 MHz above or below the band edges decreasing linearly to -27 dBm/MHz at 75 MHz above or below the band edges; and
d) -27 dBm/MHz at frequencies more than 75 MHz above or below the band edges.

Emissions not falling within the restricted bands listed in Industry Canada RSS-GEN, Clause 8.10:

Frequency (MHz)	Field Strength (µV/m)
0.009 to 0.490	2400/F(kHz)
0.490 to 1.705	24000/F(kHz)
1.705 to 30	30
30 to 88	100
88 to 216	150
216 to 960	200
Above 960	500

802.11ac (20 MHz Bandwidth)

Testing was performed on the Modulation Coding Scheme which resulted in the highest conducted output power. The Modulation Coding Scheme used during testing was MCS5.

Frequency (MHz)	QP Level (dBuV/m)	QP Limit (dBuV/m)	QP Margin (dBuV/m)	Angle(Deg)	Height(m)	Polarity
37.500	27.2	40.0	-12.8	360	1.00	Vertical
173.200	31.4	43.5	-12.1	24	1.00	Vertical
261.611	32.8	46.0	-13.2	360	1.00	Horizontal
331.083	31.7	46.0	-14.3	47	1.00	Horizontal
410.000	27.0	46.0	-19.0	187	1.00	Horizontal
614.000	30.5	46.0	-15.5	84	1.00	Horizontal

Table 188 - U-NII 1 - 5180 MHz - 30 MHz to 1 GHz

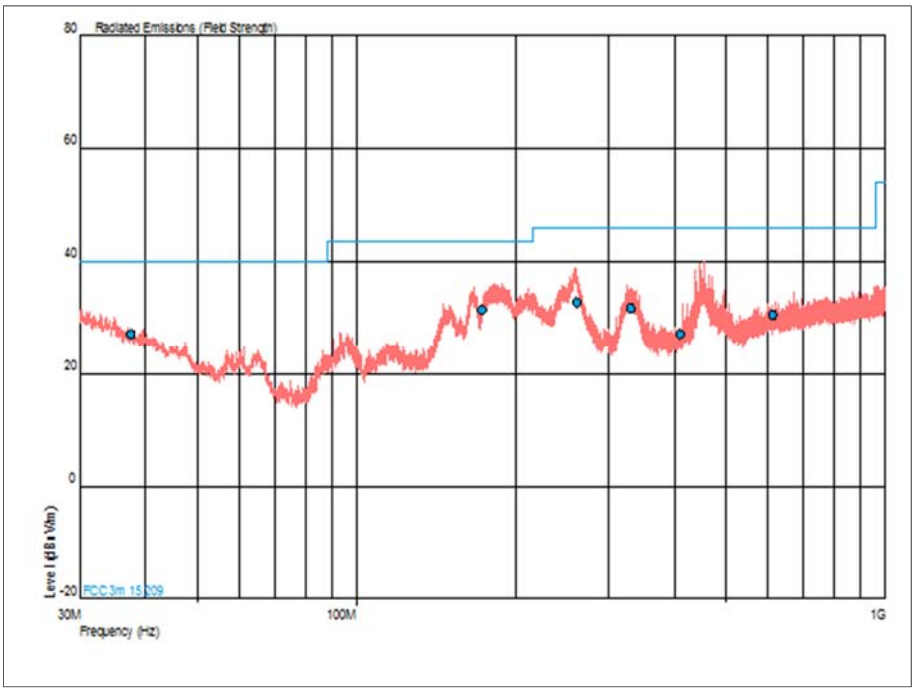

Figure 302 - U-NII 1 - 5180 MHz - 30 MHz to 1 GHz - Horizontal and Vertical

Frequency (GHz)	Result (µV/m)		Limit (µV/m)		Margin (µV/m)	
	Peak	Average	Peak	Average	Peak	Average
*						

Table 189 - U-NII 1 - 5180 MHz - 1 GHz to 40 GHz

*No emissions were detected within 6 dB of the limit.

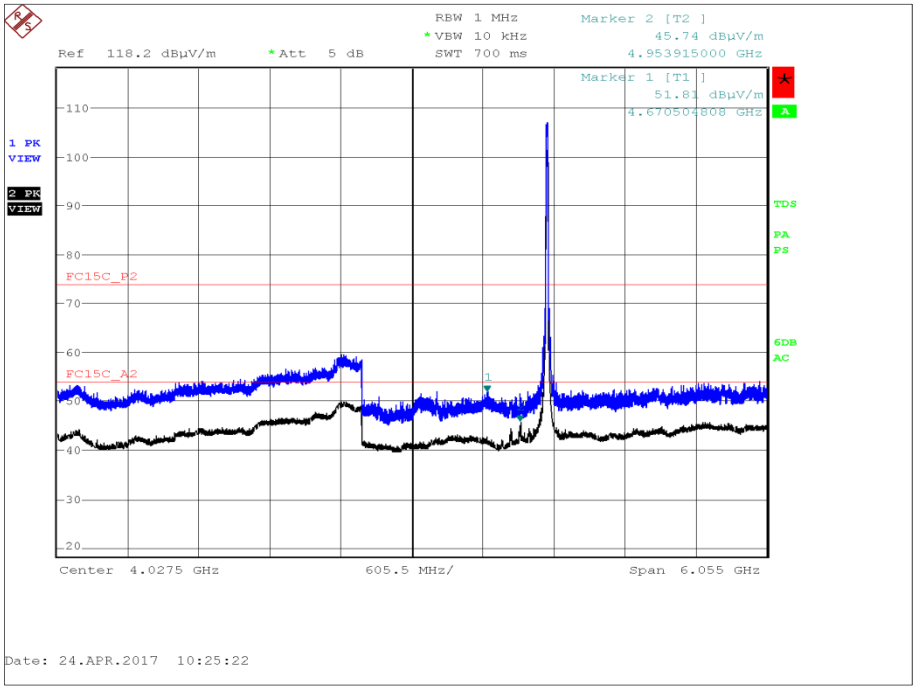

Figure 303 - U-NII 1 - 5180 MHz - 1 GHz to 7 GHz - Horizontal and Vertical

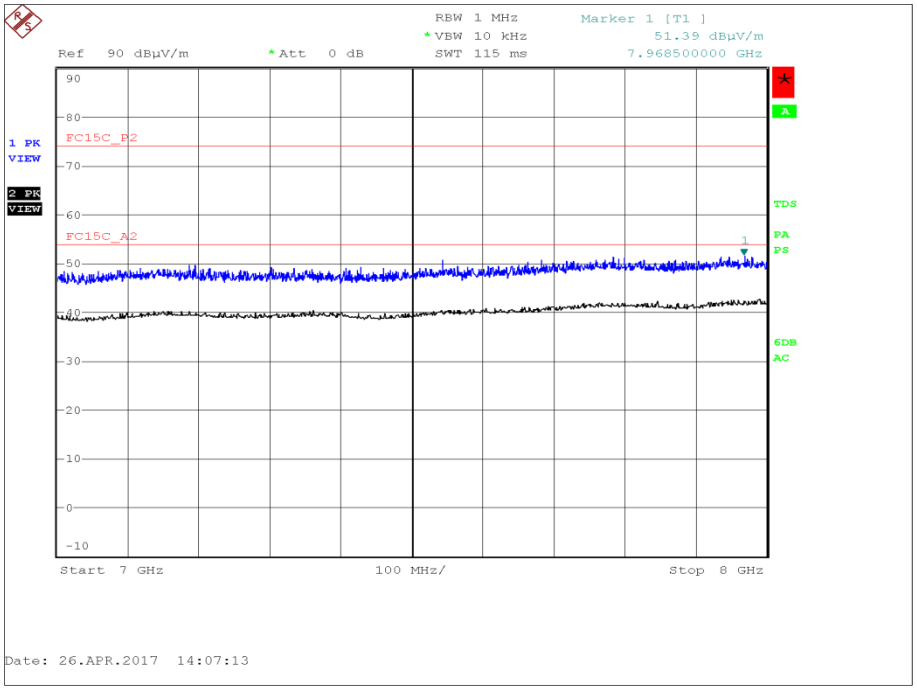

Figure 304 - U-NII 1 - 5180 MHz - 7 GHz to 8 GHz - Horizontal and Vertical

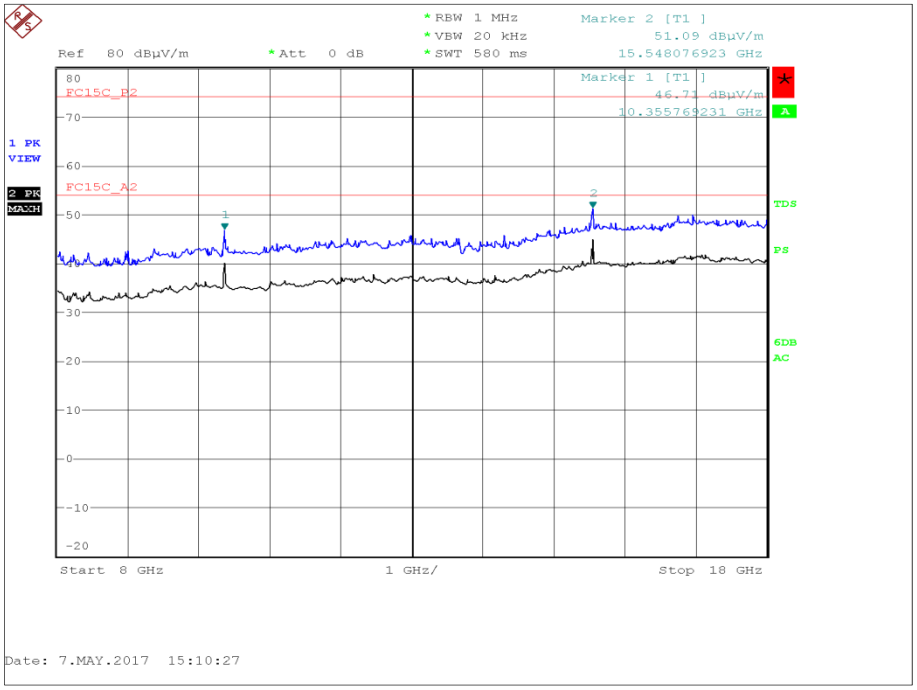

Figure 305 - U-NII 1 - 5180 MHz - 8 GHz to 18 GHz - Horizontal and Vertical

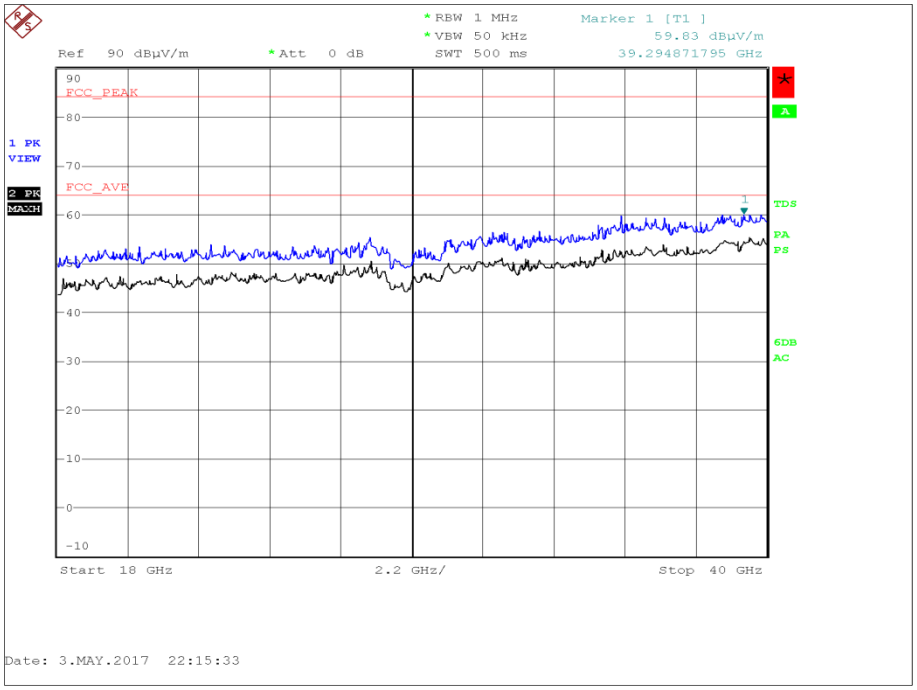

Figure 306 - U-NII 1 - 5180 MHz - 18 GHz to 40 GHz - Horizontal and Vertical

Frequency (MHz)	QP Level (dBuV/m)	QP Limit (dBuV/m)	QP Margin (dBuV/m)	Angle(Deg)	Height(m)	Polarity
37.500	26.9	40.0	-13.1	360	1.00	Horizontal
173.200	31.2	43.5	-12.3	31	1.00	Vertical
260.719	32.9	46.0	-13.1	172	1.00	Horizontal
326.833	31.1	46.0	-14.9	317	1.00	Horizontal
410.000	27.0	46.0	-19.0	111	1.00	Horizontal
614.000	30.5	46.0	-15.5	353	1.00	Horizontal

Table 190 - U-NII 1 - 5200 MHz - 30 MHz to 1 GHz

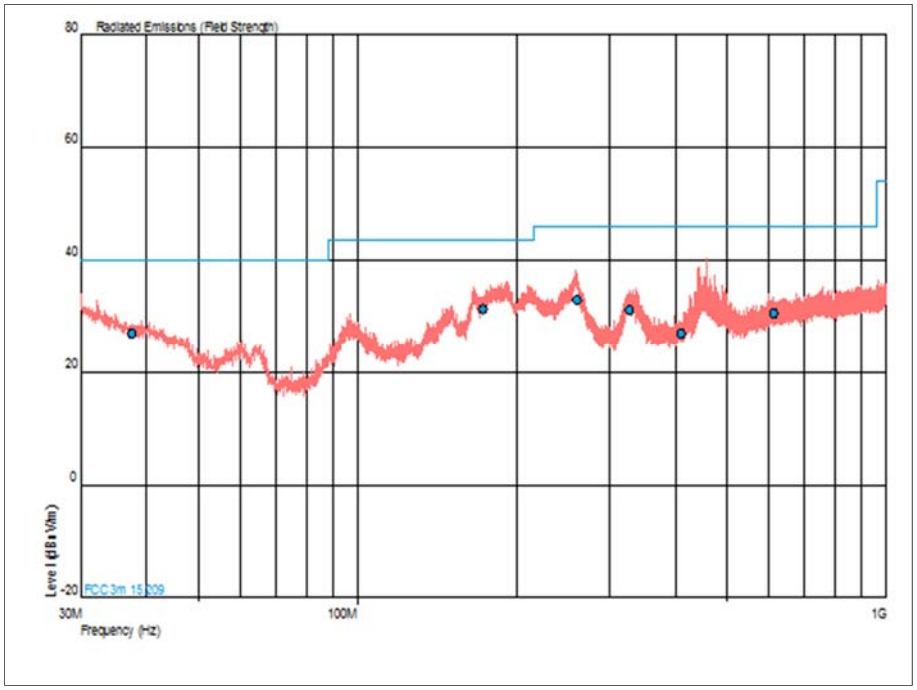

Figure 307 - U-NII 1 - 5200 MHz - 30 MHz to 1 GHz - Horizontal and Vertical

Frequency (GHz)	Result (µV/m)		Limit (µV/m)		Margin (µV/m)	
	Peak	Average	Peak	Average	Peak	Average
*						

Table 191 - U-NII 1 - 5200 MHz - 1 GHz to 40 GHz

*No emissions were detected within 6 dB of the limit.

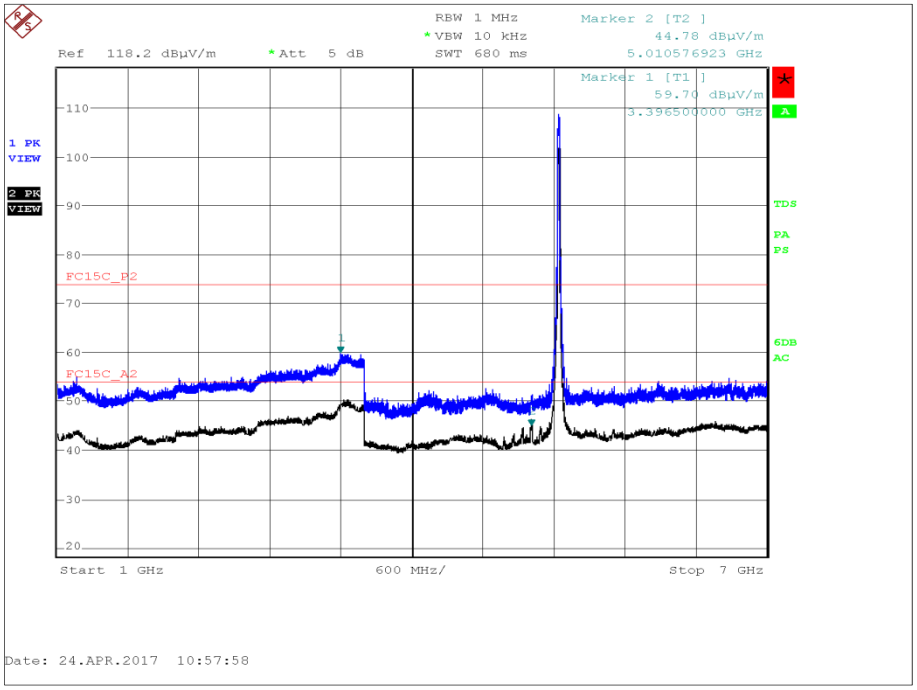

Figure 308 - U-NII 1 - 5200 MHz - 1 GHz to 7 GHz - Horizontal and Vertical

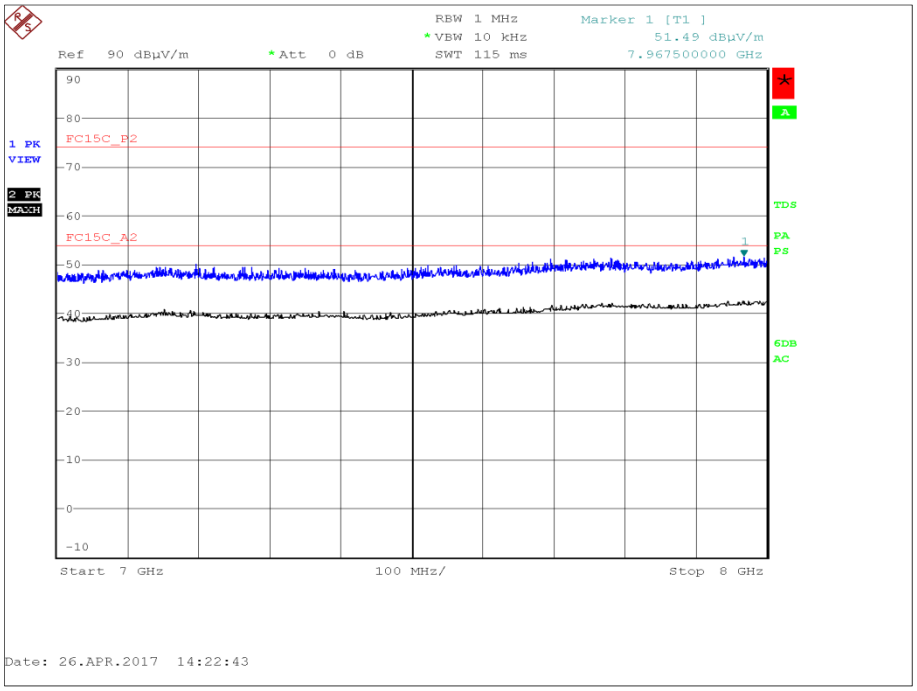

Figure 309 - U-NII 1 - 5200 MHz - 7 GHz to 8 GHz - Horizontal and Vertical

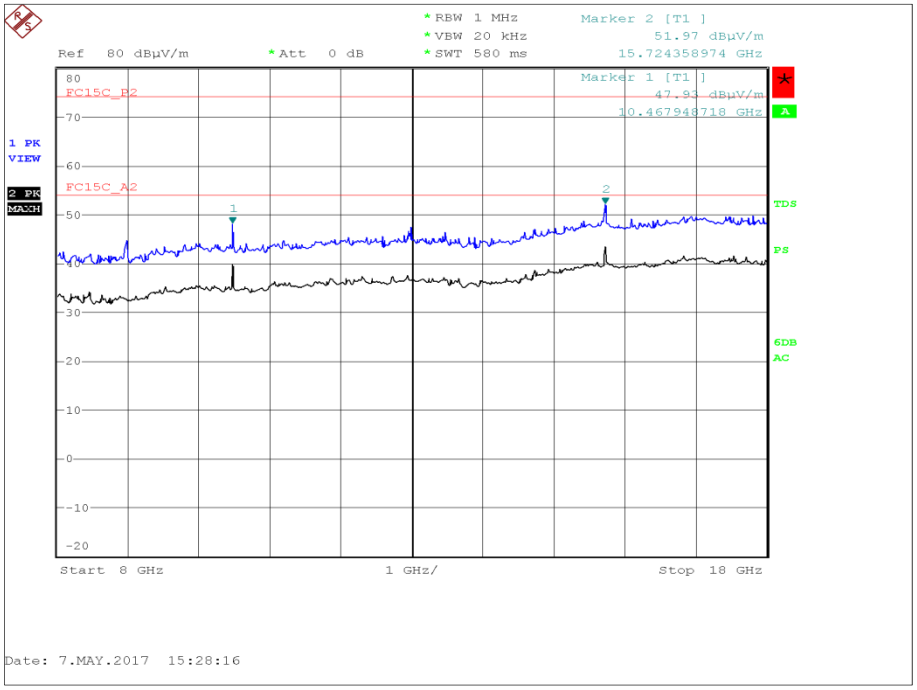

Figure 310 - U-NII 1 - 5200 MHz - 8 GHz to 18 GHz - Horizontal and Vertical

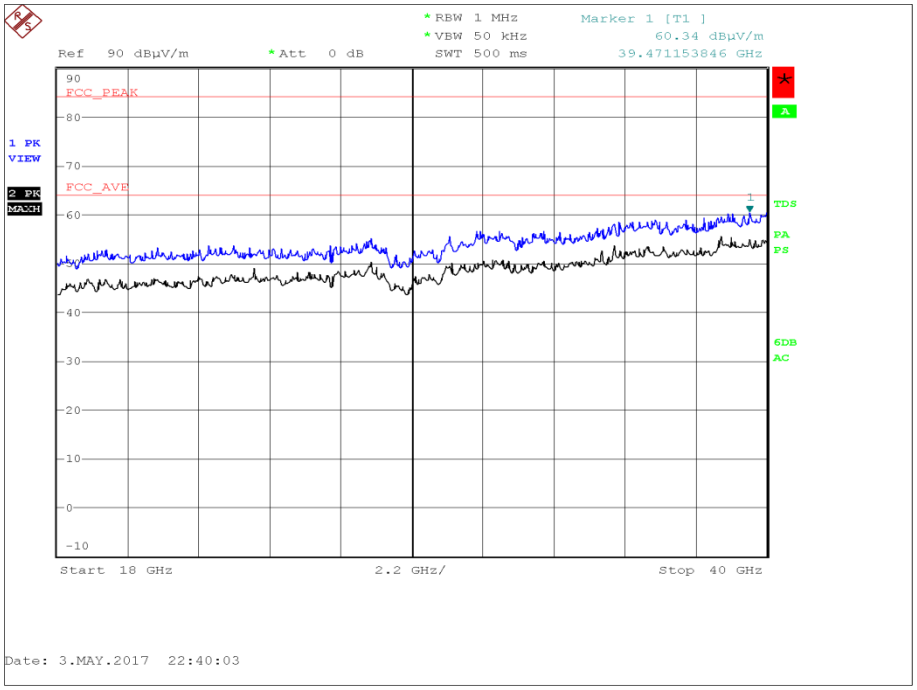

Figure 311 - U-NII 1 - 5200 MHz - 18 GHz to 40 GHz - Horizontal and Vertical

Frequency (MHz)	QP Level (dBuV/m)	QP Limit (dBuV/m)	QP Margin (dBuV/m)	Angle(Deg)	Height(m)	Polarity
37.500	26.9	40.0	-13.1	360	1.00	Vertical
173.091	27.2	43.5	-16.3	352	1.00	Vertical
261.855	29.4	46.0	-16.6	22	1.00	Horizontal
326.146	28.6	46.0	-17.4	345	1.00	Horizontal
410.000	28.0	46.0	-18.0	132	1.00	Horizontal
614.000	30.4	46.0	-15.6	264	1.00	Horizontal

Table 192 - U-NII 1 - 5240 MHz - 30 MHz to 1 GHz

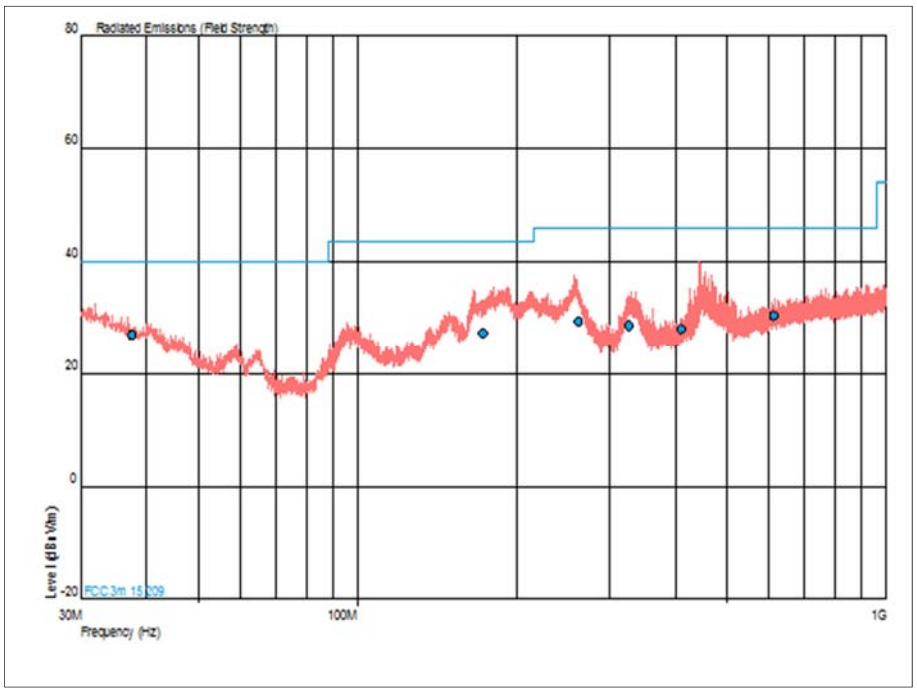

Figure 312 - U-NII 1 - 5240 MHz - 30 MHz to 1 GHz - Horizontal and Vertical

Frequency (GHz)	Result (µV/m)		Limit (µV/m)		Margin (µV/m)	
	Peak	Average	Peak	Average	Peak	Average
*						

Table 193 - U-NII 1 - 5240 MHz - 1 GHz to 40 GHz

*No emissions were detected within 6 dB of the limit.

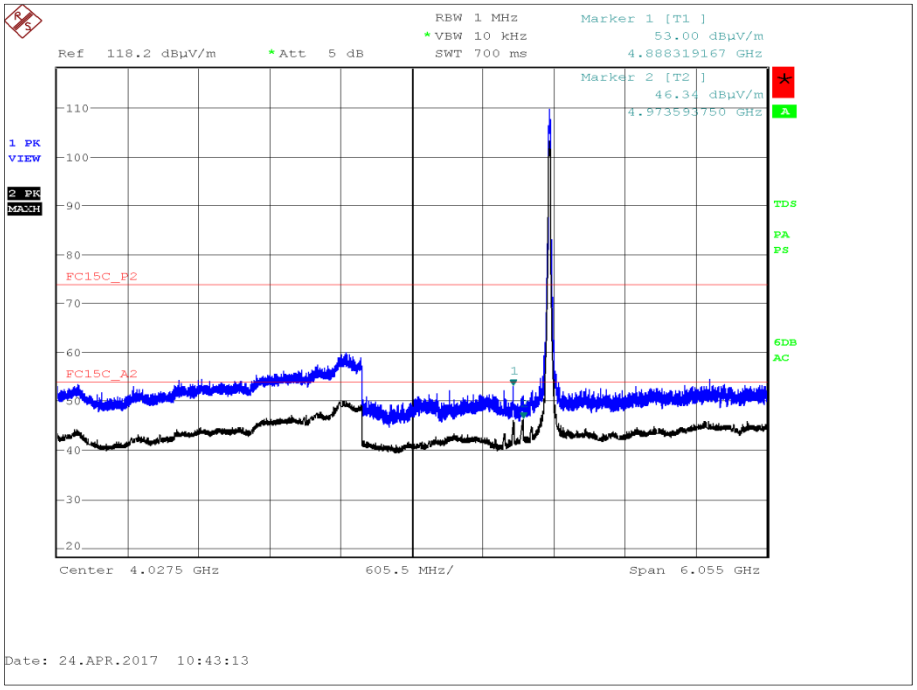

Figure 313 - U-NII 1 - 5240 MHz - 1 GHz to 7 GHz - Horizontal and Vertical

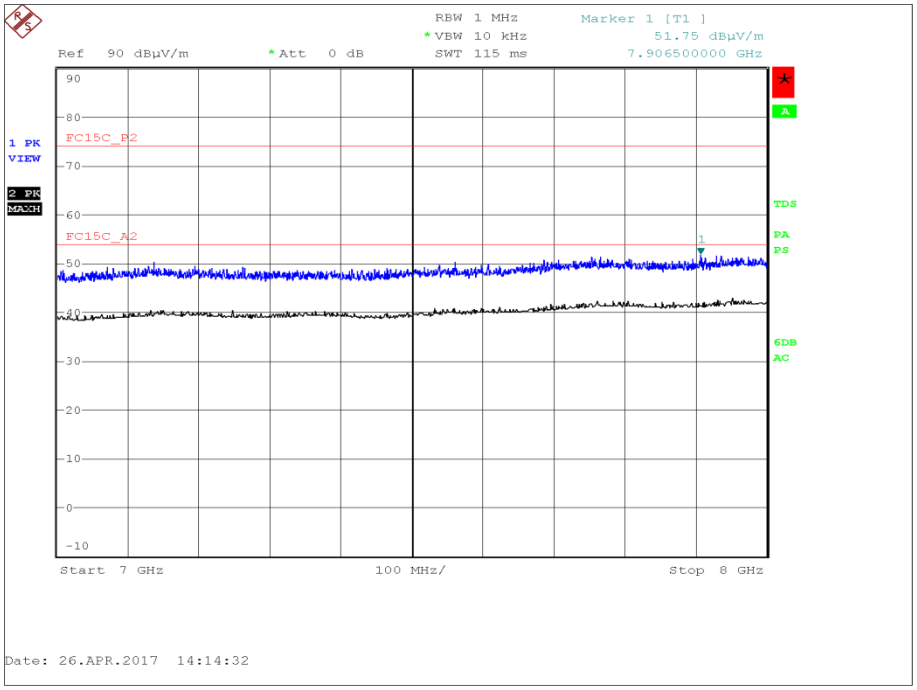

Figure 314 - U-NII 1 - 5240 MHz - 7 GHz to 8 GHz - Horizontal and Vertical

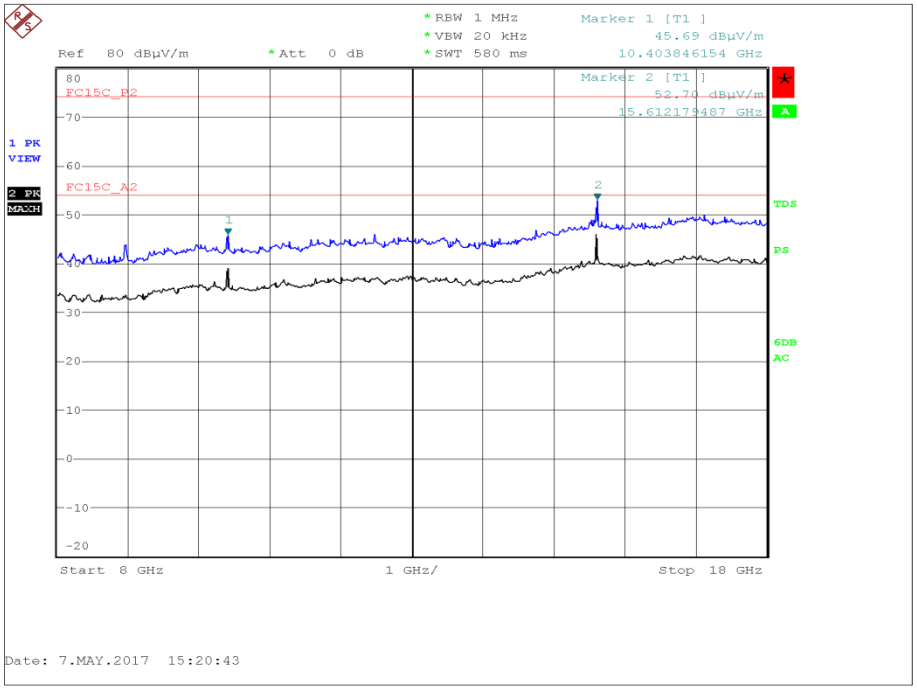

Figure 315 - U-NII 1 - 5240 MHz - 8 GHz to 18 GHz - Horizontal and Vertical

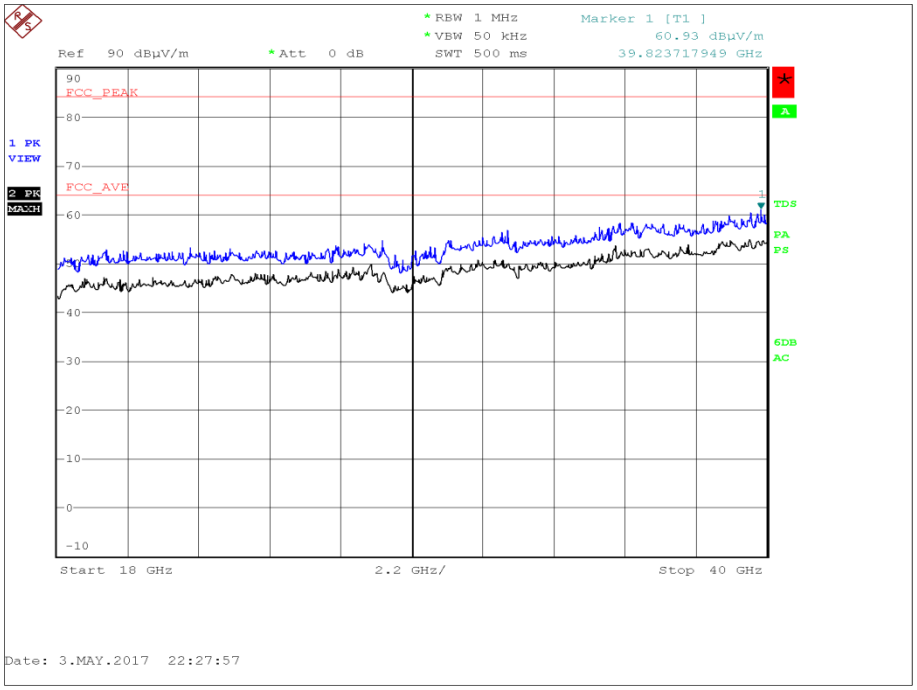

Figure 316 - U-NII 1 - 5240 MHz - 18 GHz to 40 GHz - Horizontal and Vertical

Frequency (MHz)	QP Level (dBuV/m)	QP Limit (dBuV/m)	QP Margin (dBuV/m)	Angle(Deg)	Height(m)	Polarity
37.500	26.8	40.0	-13.2	19	1.00	Horizontal
168.125	27.5	43.5	-16.0	7	1.00	Vertical
260.976	28.5	46.0	-17.5	19	1.00	Horizontal
326.417	26.8	46.0	-19.2	188	1.00	Horizontal
410.000	27.0	46.0	-19.0	90	1.00	Horizontal
614.000	30.9	46.0	-15.1	137	1.00	Horizontal

Table 194 - U-NII 2a - 5260 MHz - 30 MHz to 1 GHz

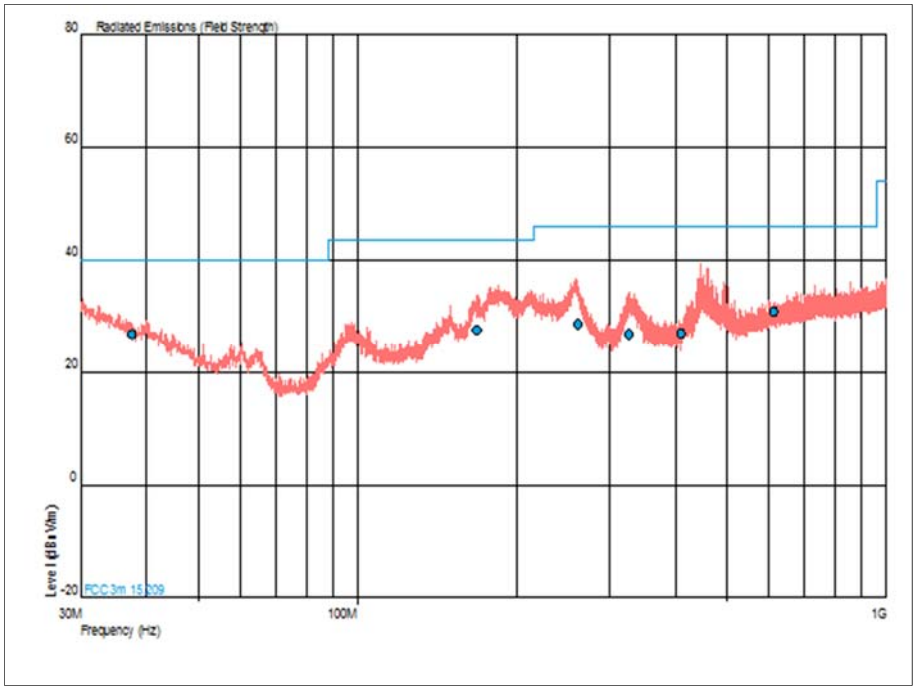

Figure 317 - U-NII 2a - 5260 MHz - 30 MHz to 1 GHz - Horizontal and Vertical

Frequency (GHz)	Result (µV/m)		Limit (µV/m)		Margin (µV/m)	
	Peak	Average	Peak	Average	Peak	Average
*						

Table 195 - U-NII 2a - 5260 - 1 GHz to 40 GHz MHz - Emissions Results

*No emissions were detected within 6 dB of the limit.

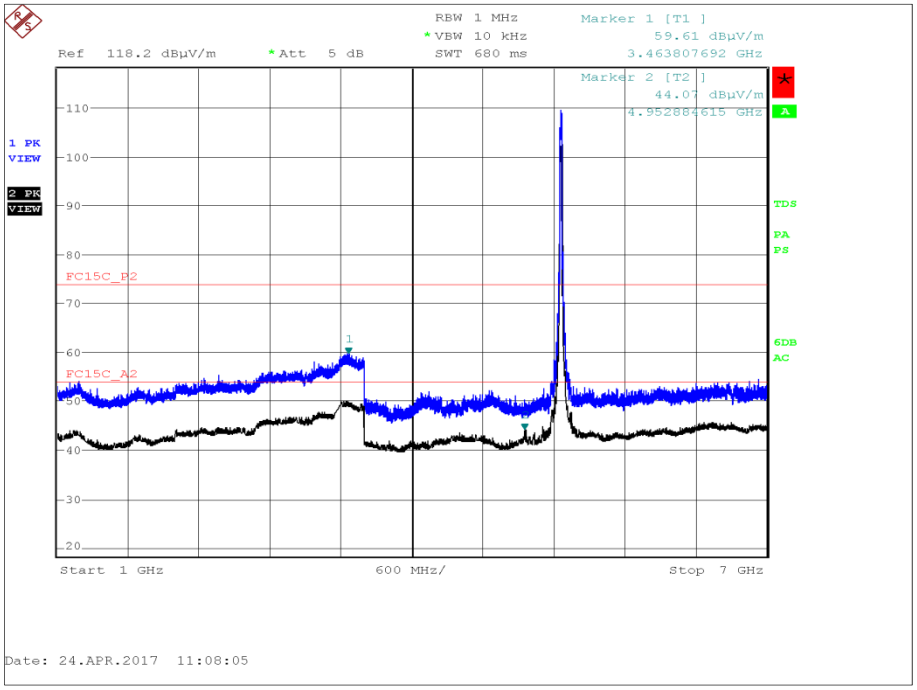

Figure 318 - U-NII 2a - 5260 MHz - 1 GHz to 7 GHz - Horizontal and Vertical

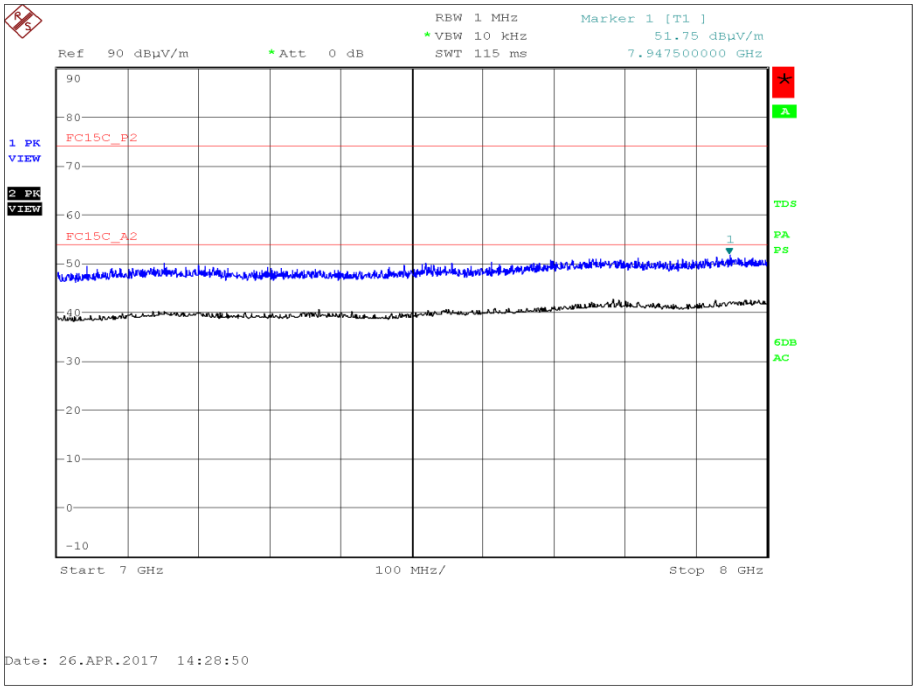

Figure 319 - U-NII 2a - 5260 MHz - 7 GHz to 8 GHz - Horizontal and Vertical

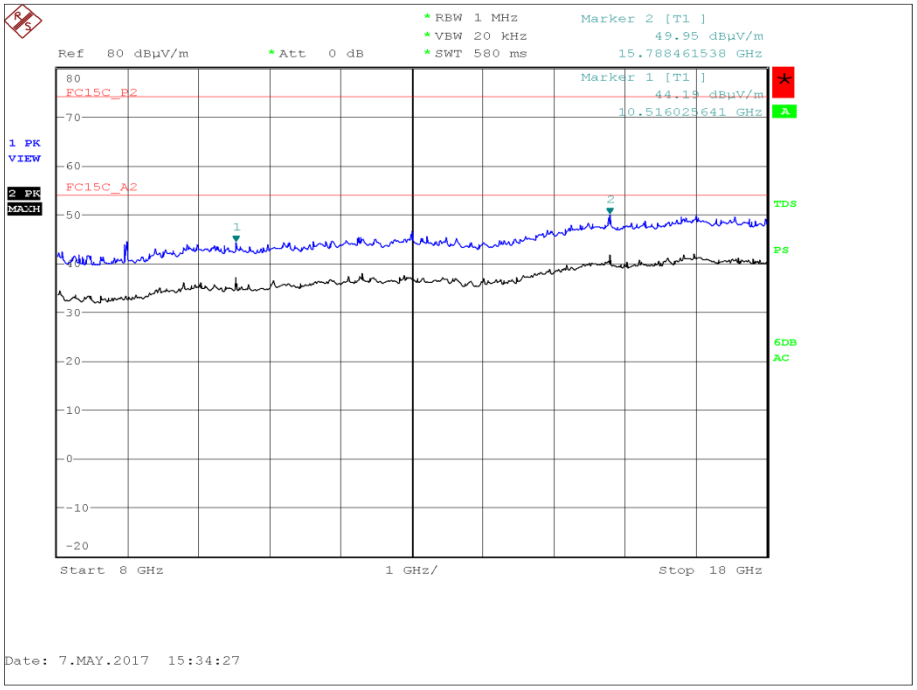

Figure 320 - U-NII 2a - 5260 MHz - 8 GHz to 18 GHz - Horizontal and Vertical

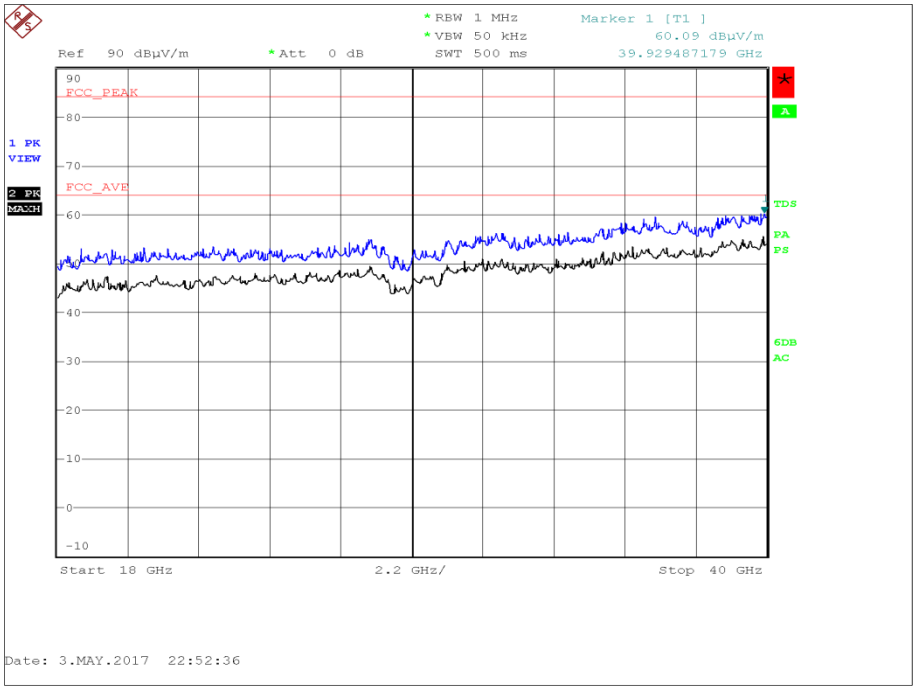

Figure 321 - U-NII 2a - 5260 MHz - 18 GHz to 40 GHz - Horizontal and Vertical

Frequency (MHz)	QP Level (dBuV/m)	QP Limit (dBuV/m)	QP Margin (dBuV/m)	Angle(Deg)	Height(m)	Polarity
37.500	28.2	40.0	-11.8	334	1.00	Vertical
169.659	33.9	43.5	-9.6	298	1.00	Vertical
255.865	36.5	46.0	-9.5	154	1.00	Horizontal
322.354	32.4	46.0	-13.6	360	1.00	Horizontal
410.000	27.7	46.0	-18.3	7	1.00	Horizontal
614.000	30.6	46.0	-15.4	360	1.00	Horizontal

Table 196 - U-NII 2a - 5300 MHz - 30 MHz to 1 GHz

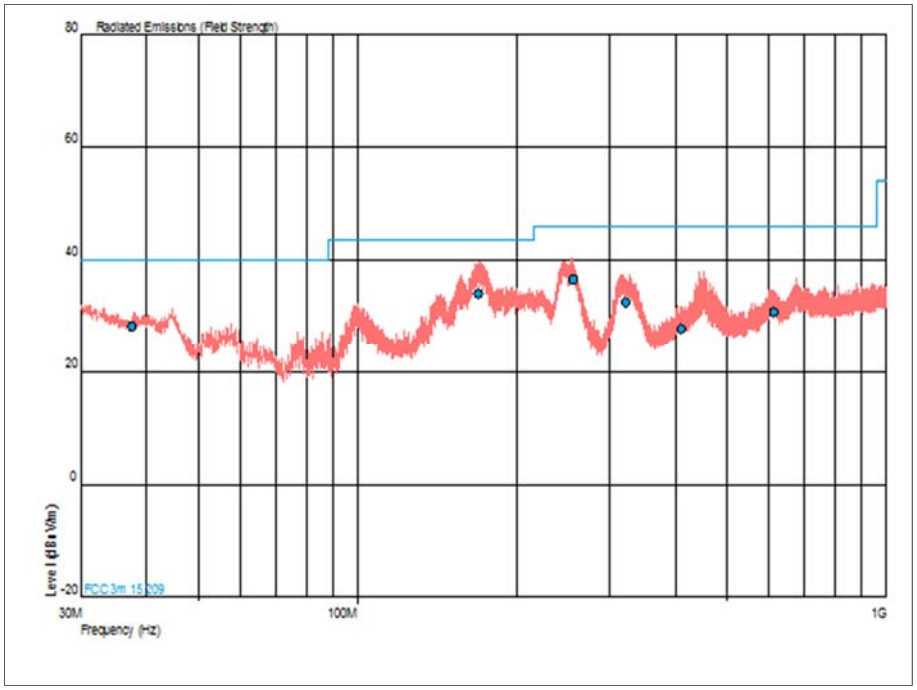

Figure 322 - U-NII 2a - 5300 MHz - 30 MHz to 1 GHz - Horizontal and Vertical

Frequency (GHz)	Result (µV/m)		Limit (µV/m)		Margin (µV/m)	
	Peak	Average	Peak	Average	Peak	Average
*						

Table 197 - U-NII 2a - 5300 MHz - 1 GHz to 40 GHz

*No emissions were detected within 6 dB of the limit.

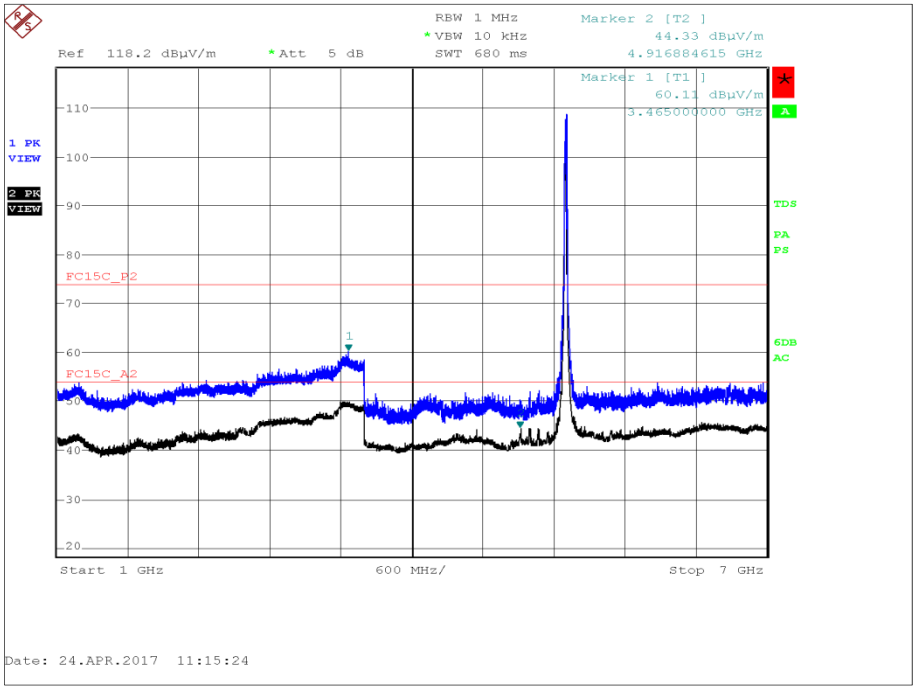

Figure 323 - U-NII 2a - 5300 MHz - 1 GHz to 7 GHz - Horizontal and Vertical

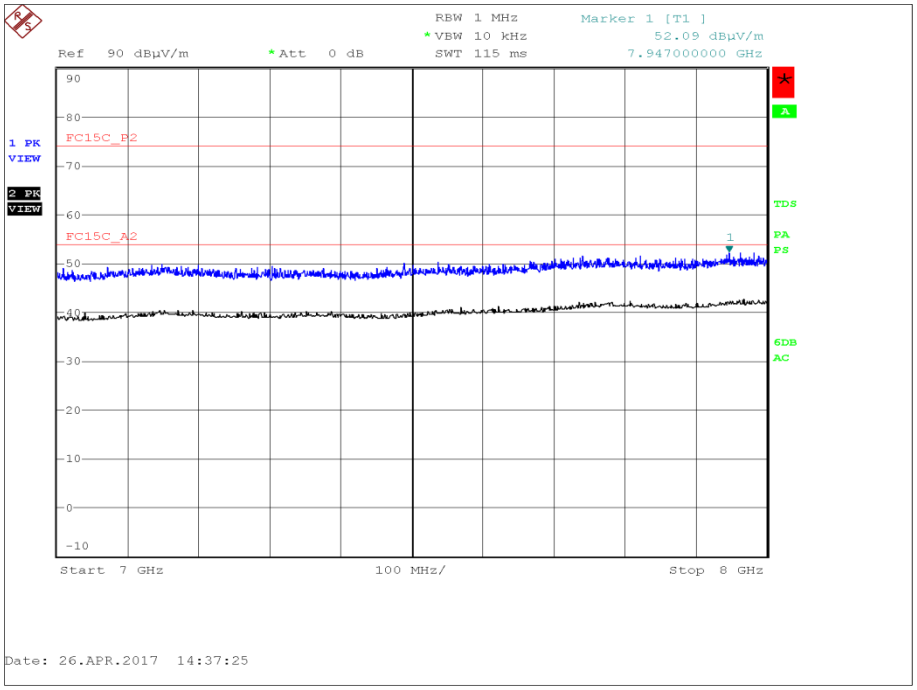

Figure 324 - U-NII 2a - 5300 MHz - 7 GHz to 8 GHz - Horizontal and Vertical

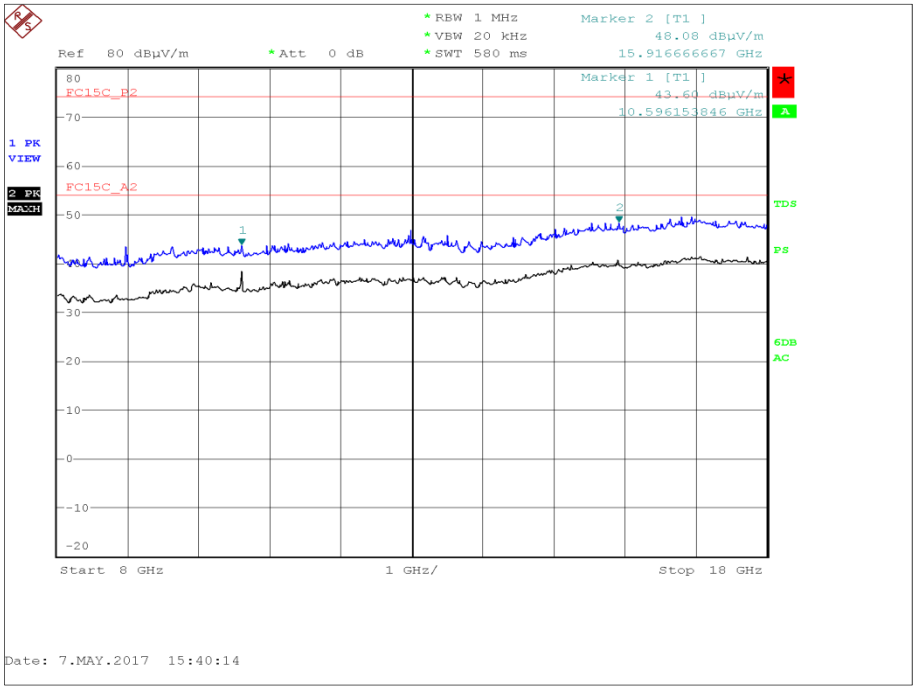

Figure 325 - U-NII 2a - 5300 MHz - 8 GHz to 18 GHz - Horizontal and Vertical

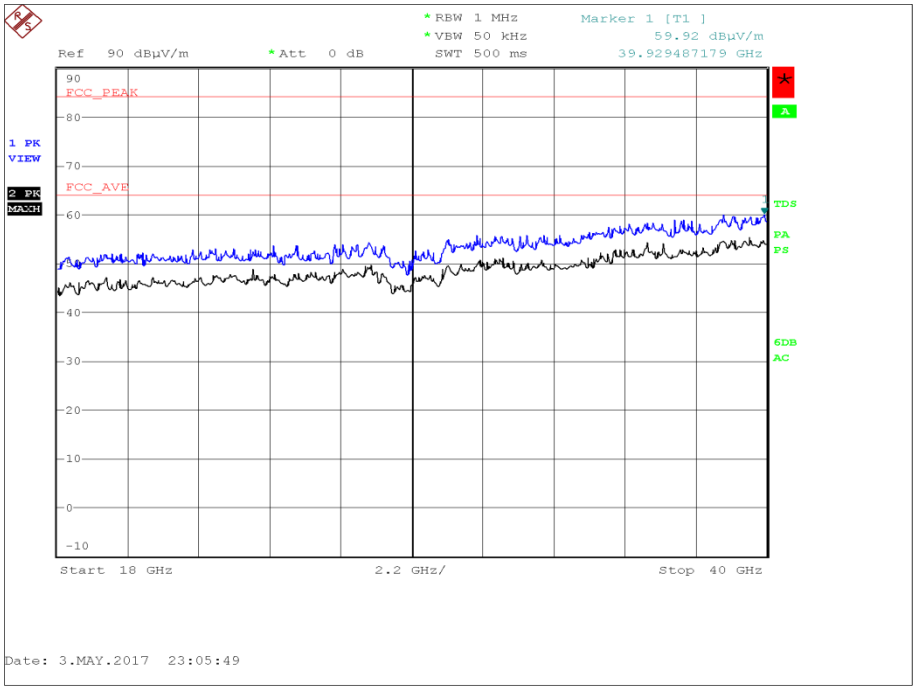

Figure 326 - U-NII 2a - 5300 MHz - 18 GHz to 40 GHz - Horizontal and Vertical

Frequency (MHz)	QP Level (dBuV/m)	QP Limit (dBuV/m)	QP Margin (dBuV/m)	Angle(Deg)	Height(m)	Polarity
37.500	27.9	40.0	-12.1	354	1.00	Vertical
169.081	32.3	43.5	-11.2	0	1.00	Vertical
255.505	36.2	46.0	-9.8	158	1.00	Horizontal
322.958	31.2	46.0	-14.8	360	1.00	Horizontal
410.000	28.0	46.0	-18.0	208	1.00	Horizontal
614.000	30.6	46.0	-15.4	190	1.00	Vertical

Table 198 - U-NII 2a - 5320 MHz - 30 MHz to 1 GHz

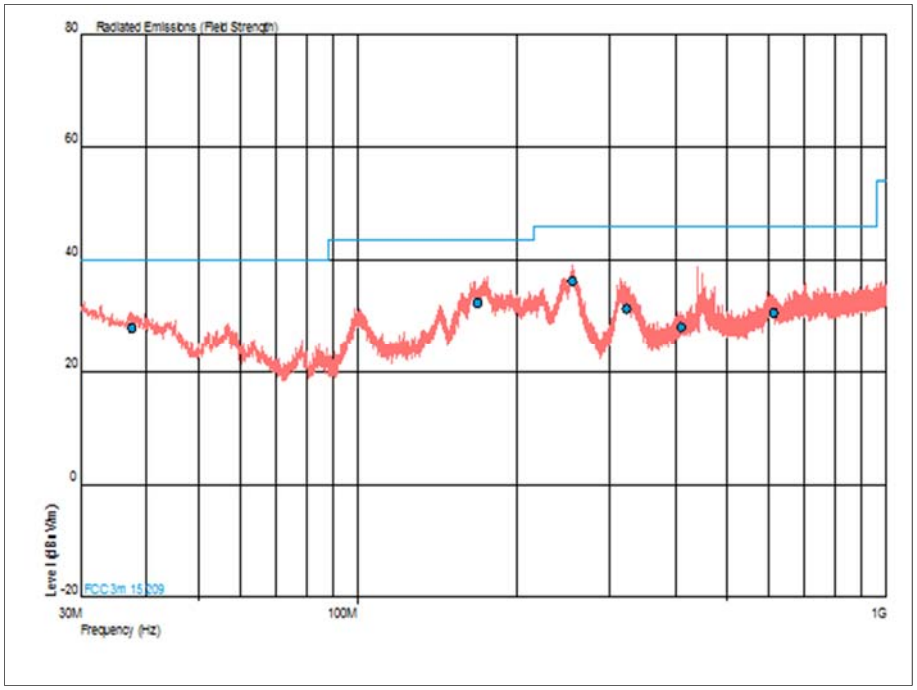

Figure 327 - U-NII 2a - 5320 MHz - 30 MHz to 1 GHz - Horizontal and Vertical

Frequency (GHz)	Result (µV/m)		Limit (µV/m)		Margin (µV/m)	
	Peak	Average	Peak	Average	Peak	Average
*						

Table 199 - U-NII 2a - 5320 MHz - 1 GHz to 40 GHz

*No emissions were detected within 6 dB of the limit.

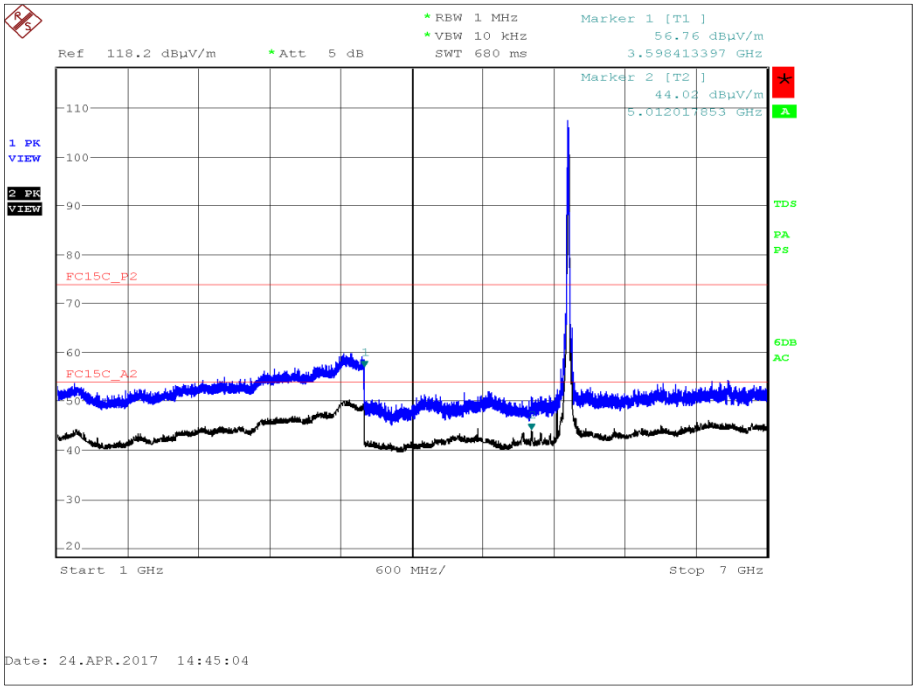

Figure 328 - U-NII 2a - 5320 MHz - 1 GHz to 7 GHz - Horizontal and Vertical

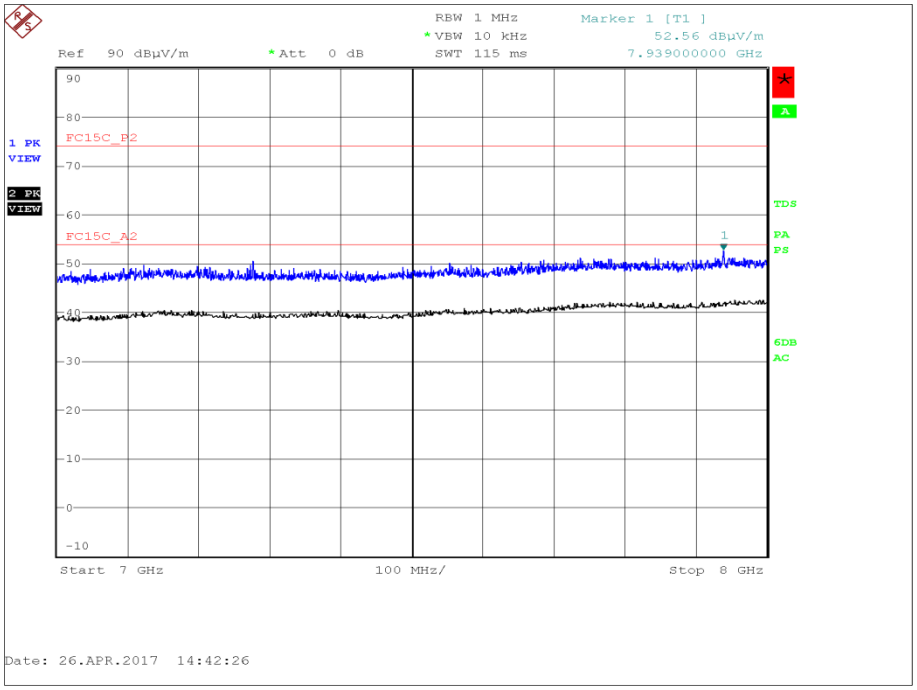

Figure 329 - U-NII 2a - 5320 MHz - 7 GHz to 8 GHz - Horizontal and Vertical

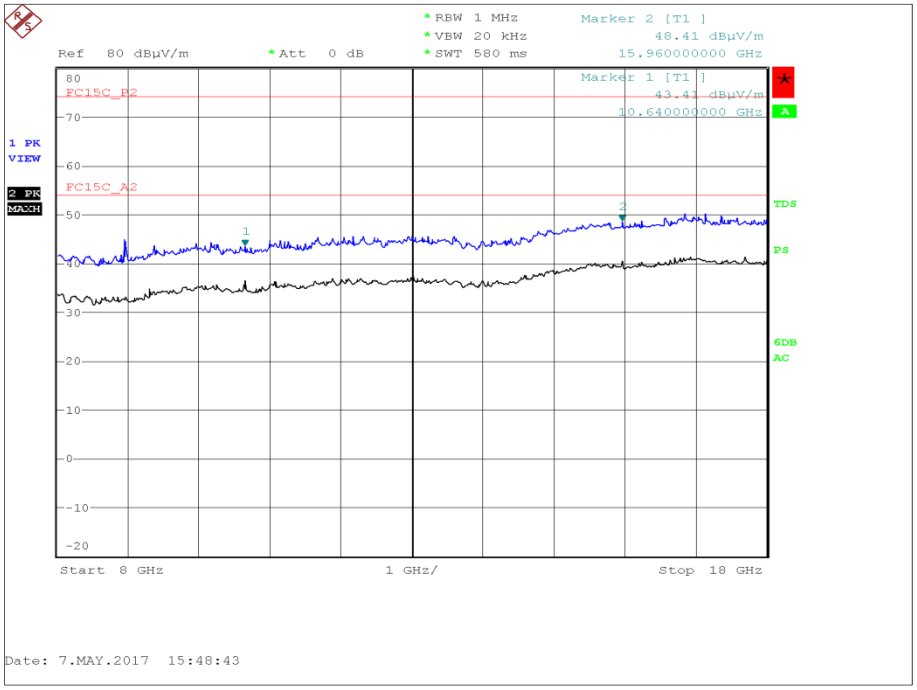

Figure 330 - U-NII 2a - 5320 MHz - 8 GHz to 18 GHz - Horizontal and Vertical

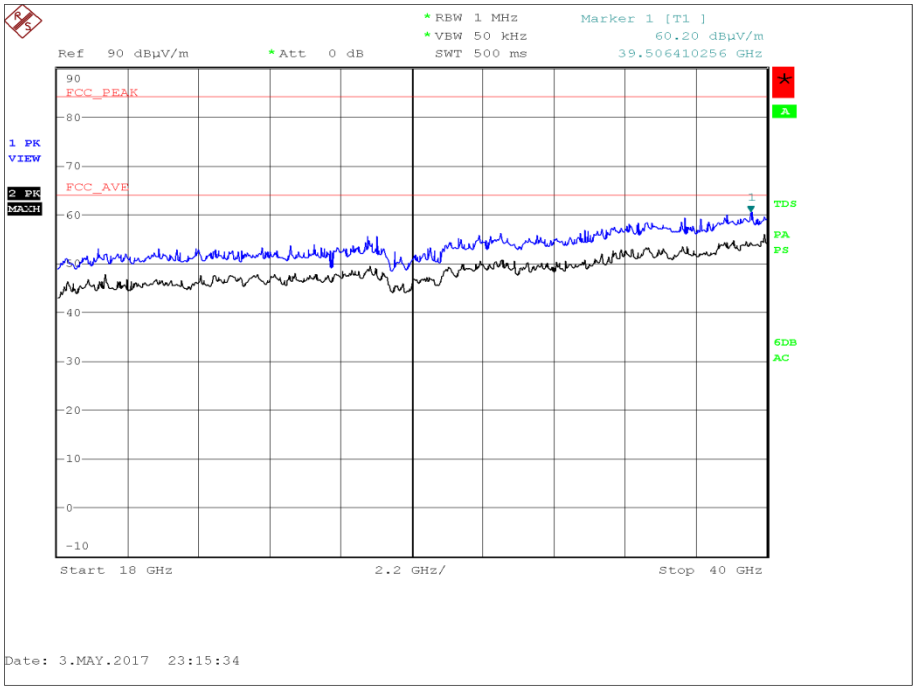

Figure 331 - U-NII 2a - 5320 MHz - 18 GHz to 40 GHz - Horizontal and Vertical

Frequency (MHz)	QP Level (dBuV/m)	QP Limit (dBuV/m)	QP Margin (dBuV/m)	Angle(Deg)	Height(m)	Polarity
37.500	27.6	40.0	-12.4	123	1.00	Vertical
168.279	32.6	43.5	-10.9	61	1.00	Vertical
255.567	35.1	46.0	-10.9	153	1.00	Horizontal
322.860	30.8	46.0	-15.2	8	1.00	Horizontal
410.000	28.3	46.0	-17.7	20	1.00	Horizontal
614.000	30.6	46.0	-15.4	233	1.00	Horizontal

Table 200 - U-NII 2c - 5500 MHz - 30 MHz to 1 GHz

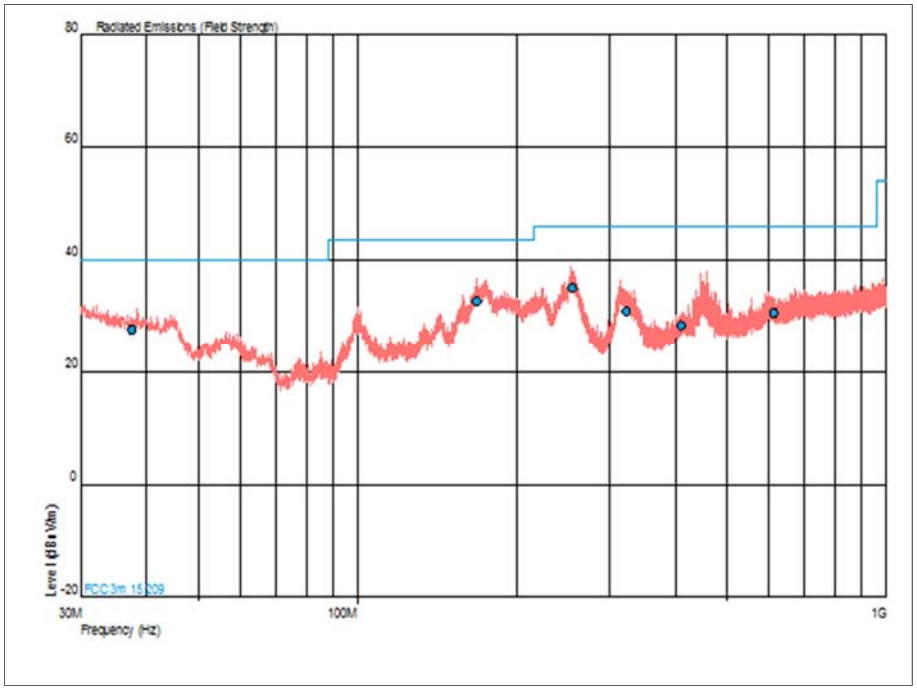

Figure 332 - U-NII 2c - 5500 MHz - 30 MHz to 1 GHz - Horizontal and Vertical

Frequency (GHz)	Result (µV/m)		Limit (µV/m)		Margin (µV/m)	
	Peak	Average	Peak	Average	Peak	Average
*						

Table 201 - U-NII 2c - 5500 MHz - 1 GHz to 40 GHz

*No emissions were detected within 6 dB of the limit.

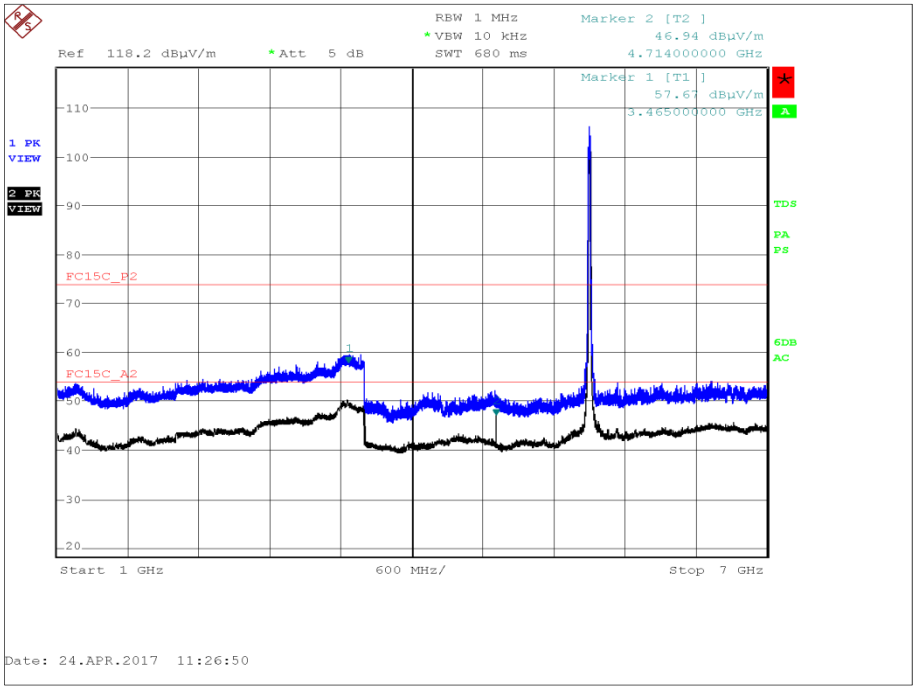

Figure 333 - U-NII 2c - 5500 MHz - 1 GHz to 7 GHz - Horizontal and Vertical

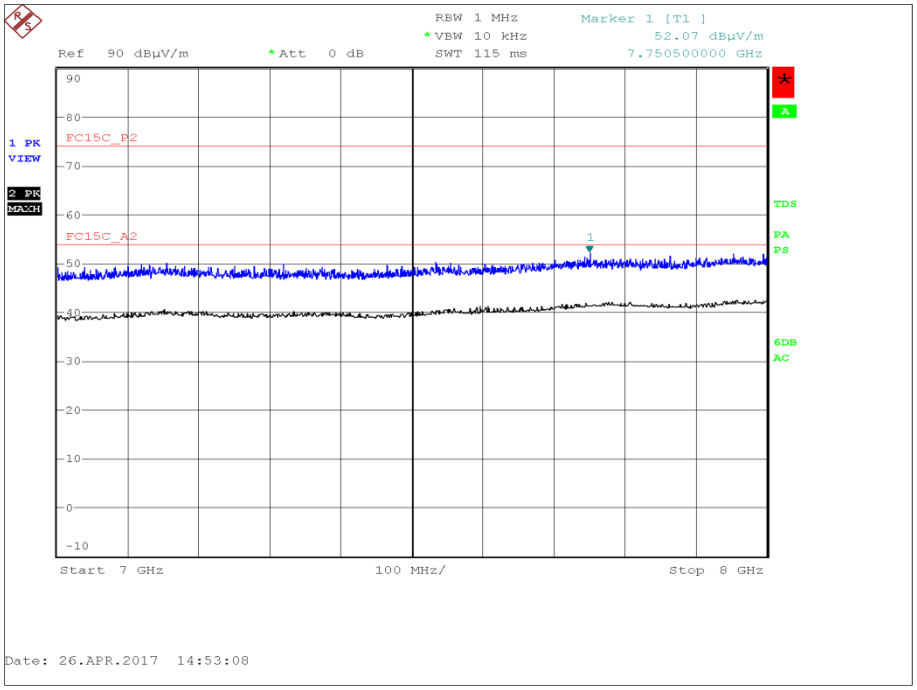

Figure 334 - U-NII 2c - 5500 MHz - 7 GHz to 8 GHz - Horizontal and Vertical

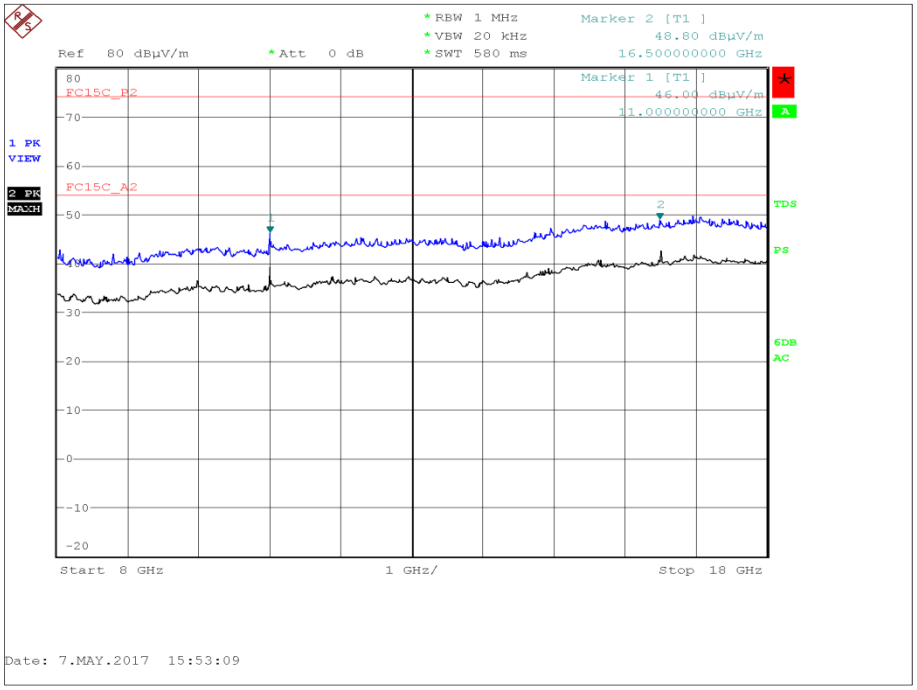

Figure 335 - U-NII 2c - 5500 MHz - 8 GHz to 18 GHz - Horizontal and Vertical

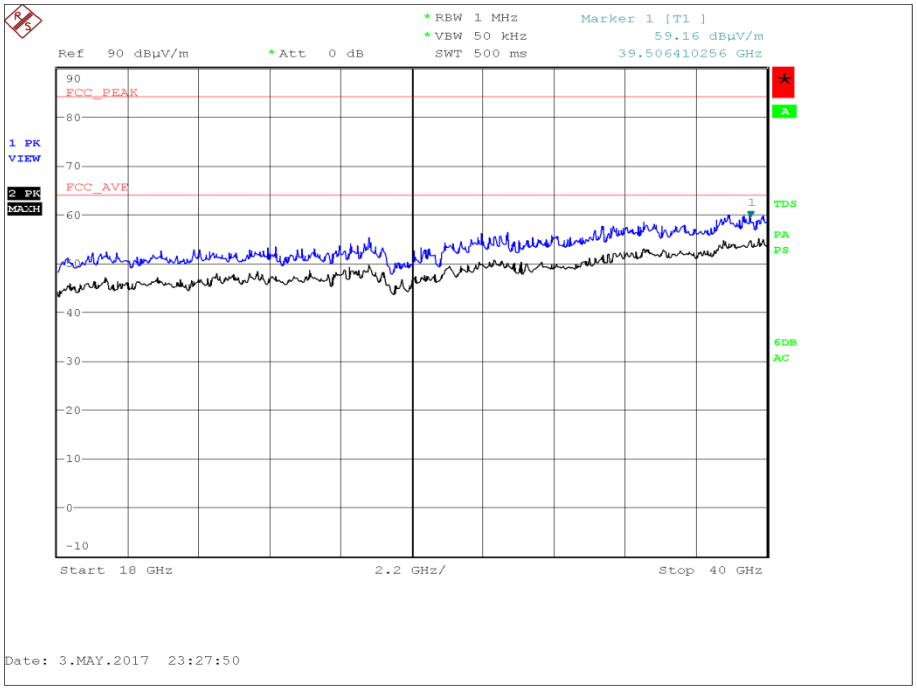

Figure 336 - U-NII 2c - 5500 MHz - 18 GHz to 40 GHz - Horizontal and Vertical

Frequency (MHz)	QP Level (dBuV/m)	QP Limit (dBuV/m)	QP Margin (dBuV/m)	Angle(Deg)	Height(m)	Polarity
37.500	27.6	40.0	-12.4	360	1.00	Vertical
168.073	31.1	43.5	-12.4	0	1.00	Vertical
257.003	32.9	46.0	-13.1	184	1.00	Horizontal
323.336	30.3	46.0	-15.7	0	1.00	Horizontal
410.000	27.1	46.0	-18.9	37	1.00	Vertical
614.000	30.6	46.0	-15.4	144	1.00	Vertical

Table 202 - U-NII 2c - 5600 MHz - 30 MHz to 1 GHz

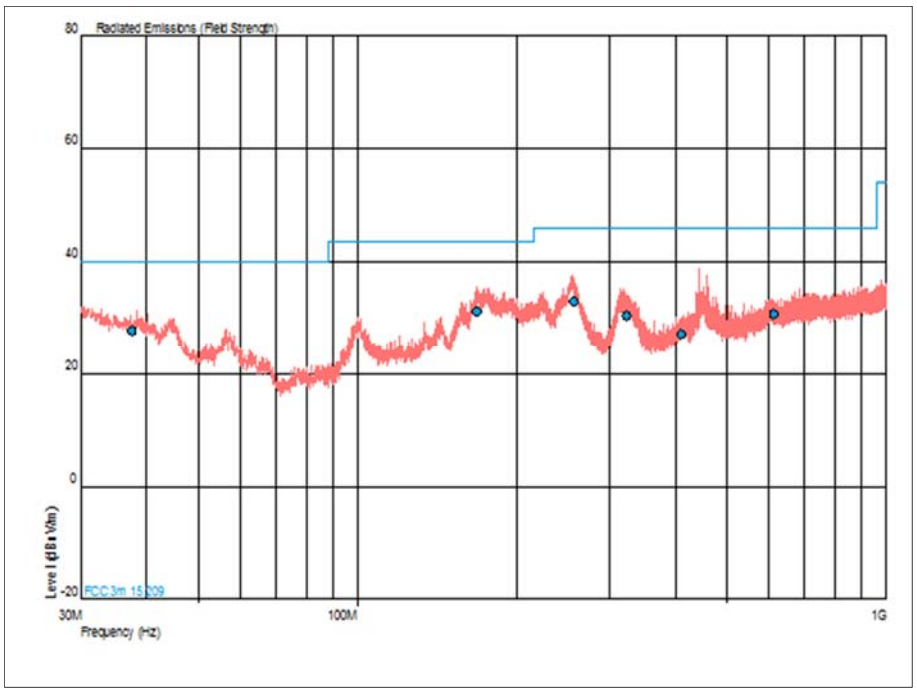

Figure 337 - U-NII 2c - 5600 MHz - 30 MHz to 1 GHz - Horizontal and Vertical

Frequency (GHz)	Result (µV/m)		Limit (µV/m)		Margin (µV/m)	
	Peak	Average	Peak	Average	Peak	Average
*						

Table 203 - U-NII 2c - 5600 MHz - 1 GHz to 40 GHz

*No emissions were detected within 6 dB of the limit.

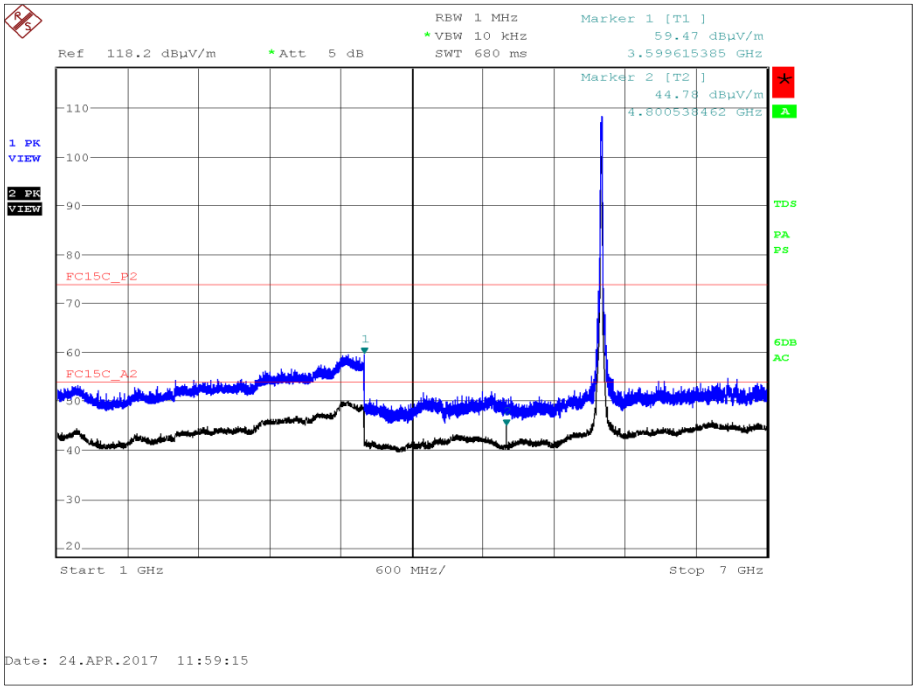

Figure 338 - U-NII 2c - 5600 MHz - 1 GHz to 7 GHz - Horizontal and Vertical

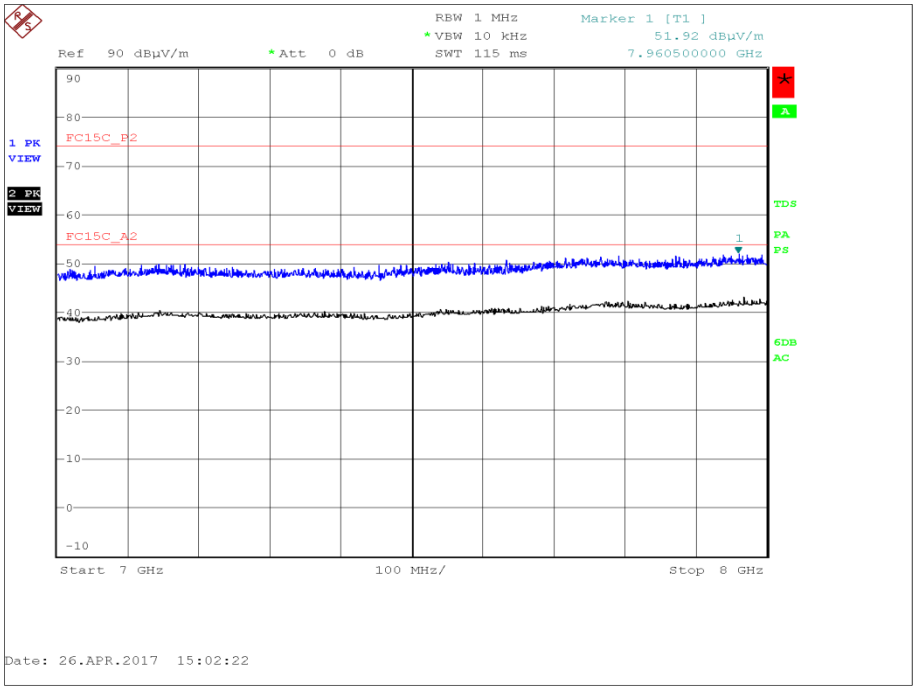

Figure 339 - U-NII 2c - 5600 MHz - 7 GHz to 8 GHz - Horizontal and Vertical

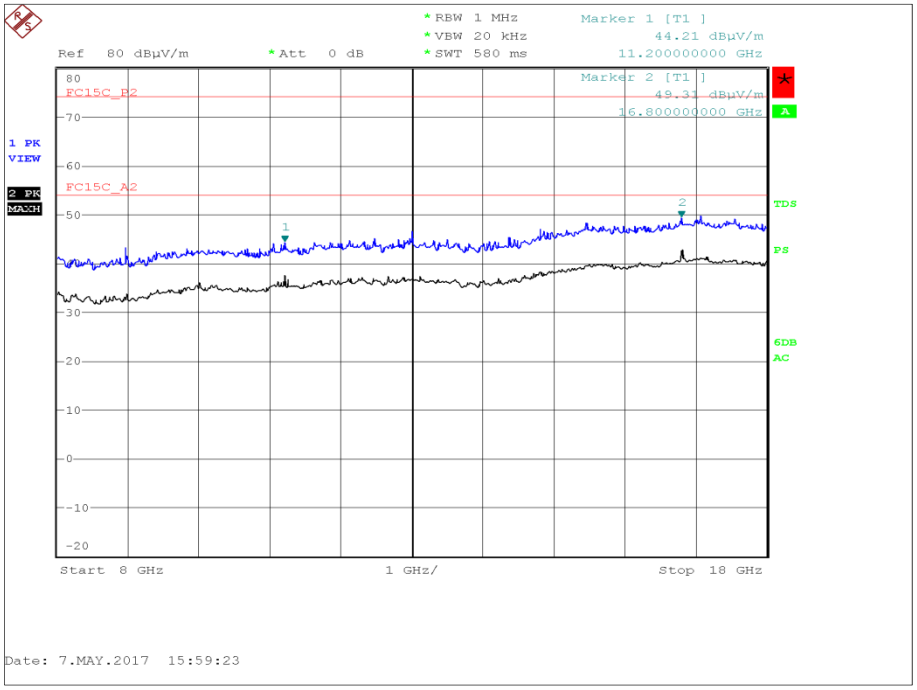

Figure 340 - U-NII 2c - 5600 MHz - 8 GHz to 18 GHz - Horizontal and Vertical

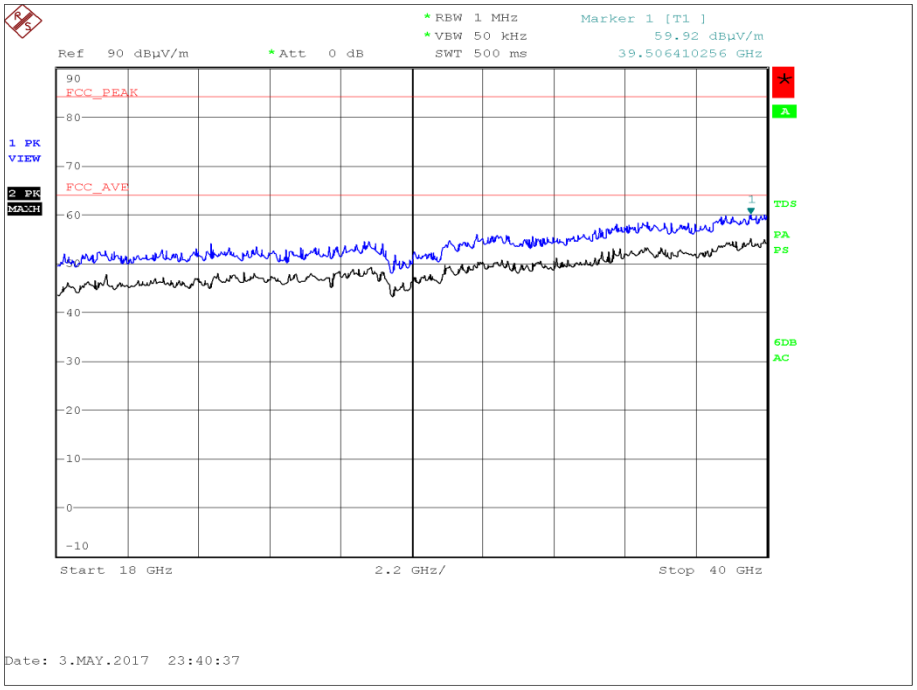

Figure 341 - U-NII 2c - 5600 MHz - 18 GHz to 40 GHz - Horizontal and Vertical

Frequency (MHz)	QP Level (dBuV/m)	QP Limit (dBuV/m)	QP Margin (dBuV/m)	Angle(Deg)	Height(m)	Polarity
37.500	27.5	40.0	-12.5	170	1.00	Vertical
172.686	32.4	43.5	-11.1	30	1.00	Vertical
256.609	33.5	46.0	-12.5	170	1.00	Horizontal
322.542	29.3	46.0	-16.7	8	1.00	Horizontal
410.000	27.7	46.0	-18.3	220	1.00	Horizontal
614.000	30.7	46.0	-15.3	35	1.00	Vertical

Table 204 - U-NII 2c - 5700 MHz - 30 MHz to 1 GHz

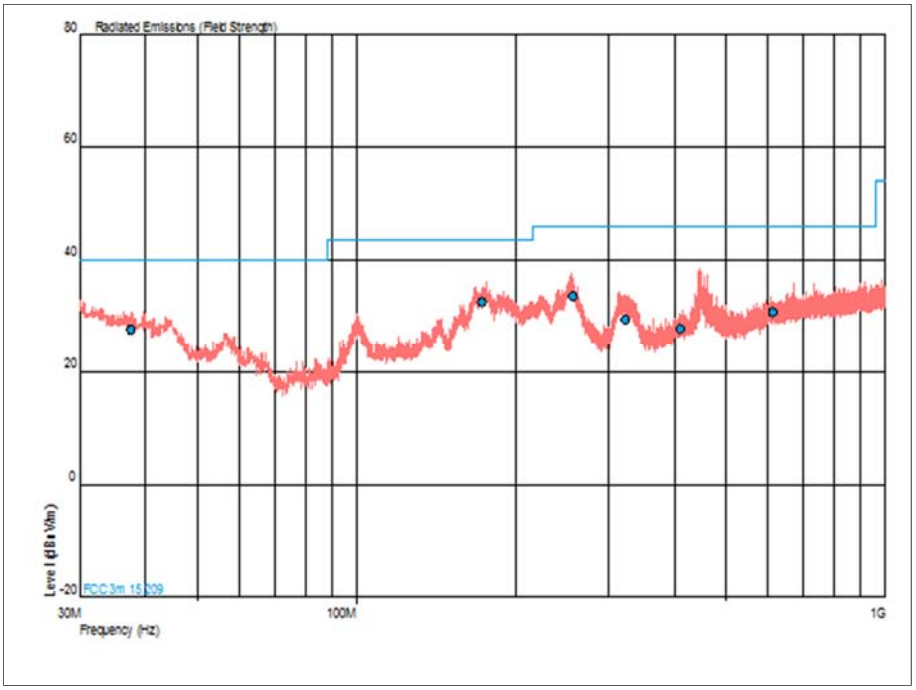

Figure 342 - U-NII 2c - 5700 MHz - 30 MHz to 1 GHz - Horizontal and Vertical

Frequency (GHz)	Result (µV/m)		Limit (µV/m)		Margin (µV/m)	
	Peak	Average	Peak	Average	Peak	Average
4.885	56.36	49.42	74.00	54.00	17.64	4.58

Table 205 **- U-NII 2c - 5700 MHz - 1 GHz to 40 GHz**

No other emissions were detected within 6 dB of the limit.

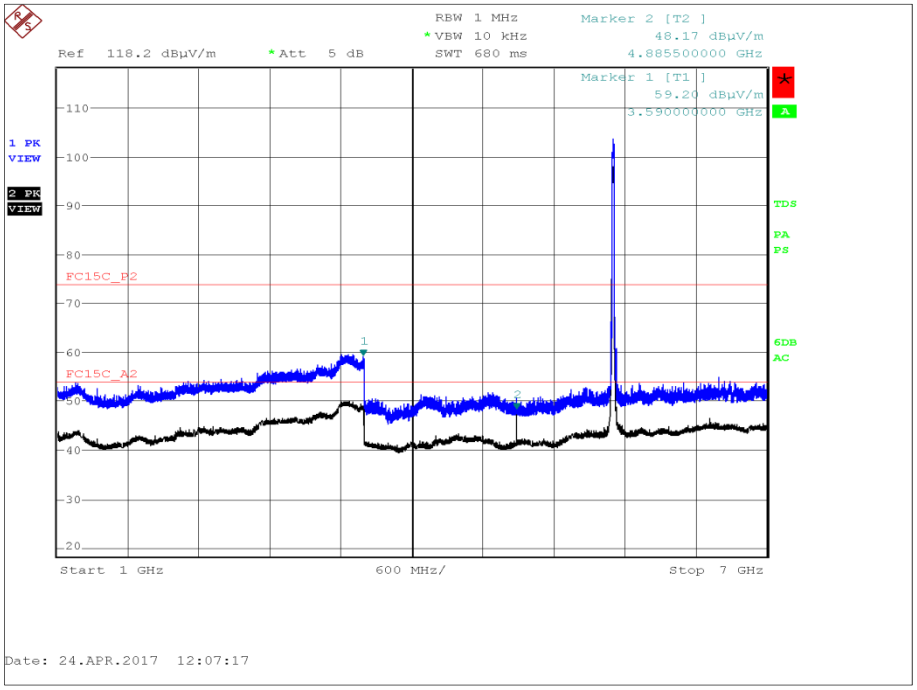

Figure 343 - U-NII 2c - 5700 MHz - 1 GHz to 7 GHz - Horizontal and Vertical

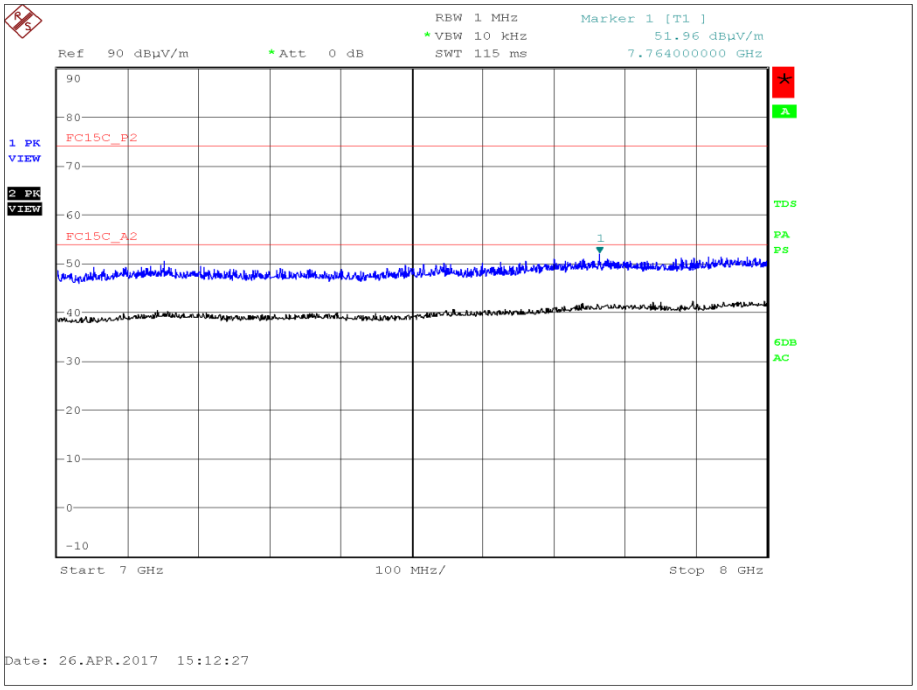

Figure 344 - U-NII 2c - 5700 MHz - 7 GHz to 8 GHz - Horizontal and Vertical

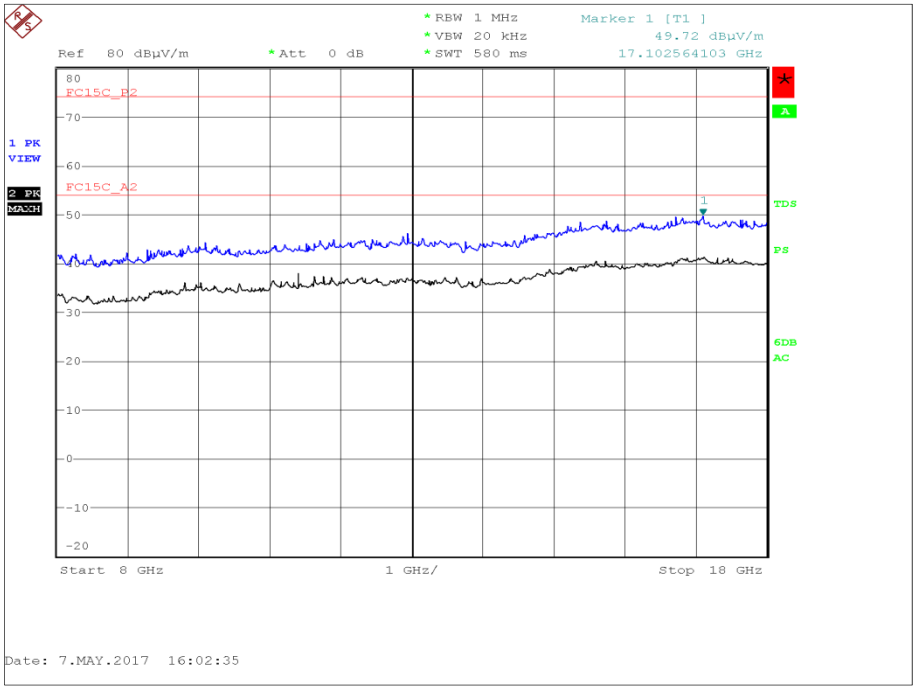

Figure 345 - U-NII 2c - 5700 MHz - 8 GHz to 18 GHz - Horizontal and Vertical

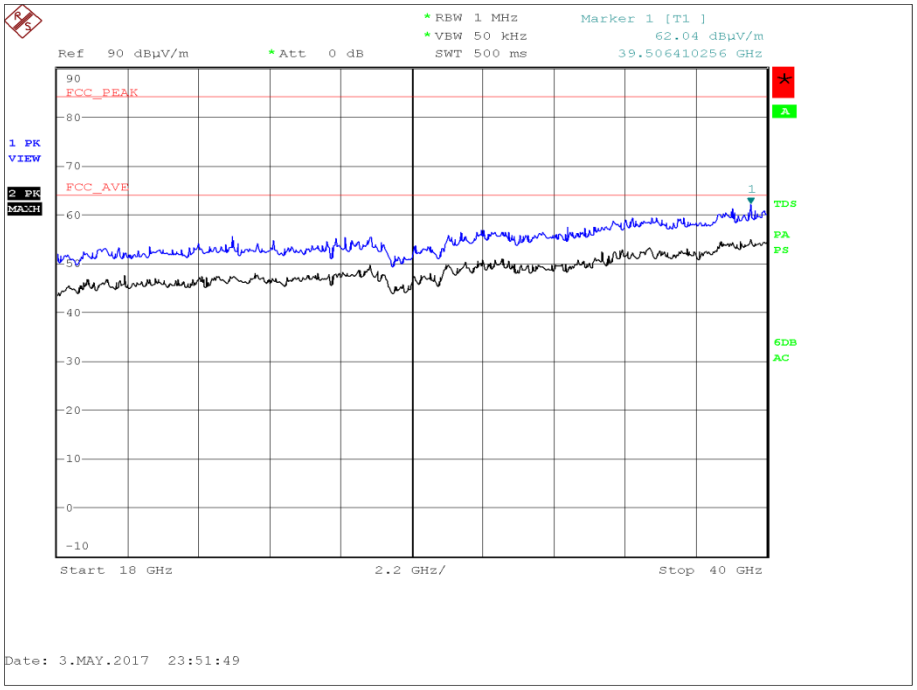

Figure 346 - U-NII 2c - 5700 MHz - 18 GHz to 40 GHz - Horizontal and Vertical

Frequency (MHz)	QP Level (dBuV/m)	QP Limit (dBuV/m)	QP Margin (dBuV/m)	Angle(Deg)	Height(m)	Polarity
37.500	27.6	40.0	-12.4	360	1.00	Vertical
173.192	27.3	43.5	-16.2	0	1.00	Vertical
255.000	29.8	46.0	-16.2	165	1.00	Horizontal
322.080	27.4	46.0	-18.6	347	1.00	Horizontal
410.000	27.1	46.0	-18.9	40	1.00	Vertical
614.000	30.6	46.0	-15.4	209	1.00	Horizontal

Table 206 - U-NII 3 - 5745 MHz - 30 MHz to 1 GHz

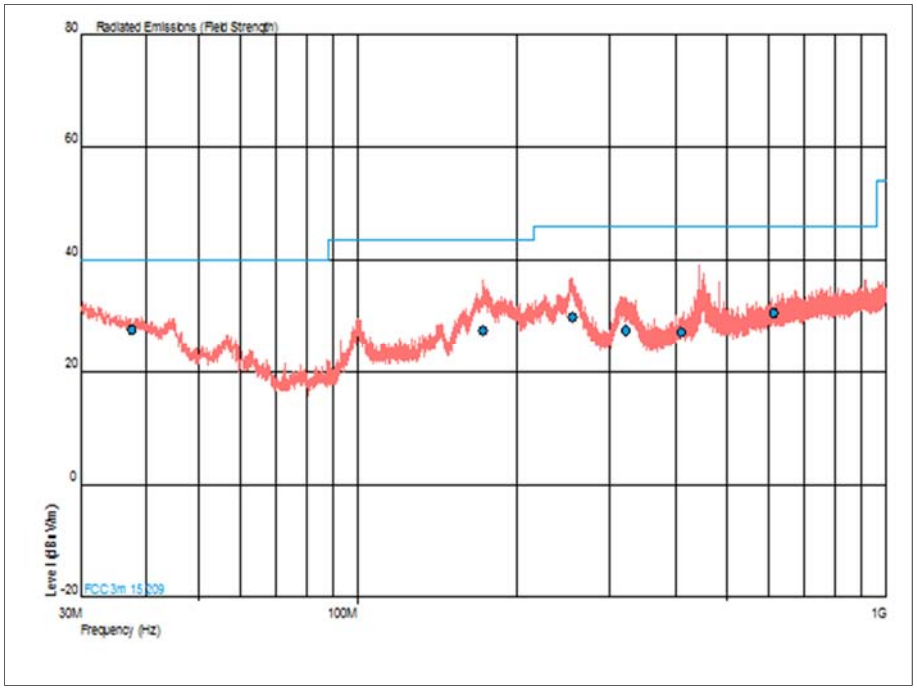

Figure 347 - U-NII 3 - 5745 MHz - 30 MHz to 1 GHz - Horizontal and Vertical

Frequency (GHz)	Result (µV/m)		Limit (µV/m)		Margin (µV/m)	
	Peak	Average	Peak	Average	Peak	Average
4.924	56.35	50.38	74.00	54.00	17.65	3.62

Table 207 - U-NII 3 - 5745 MHz - 1 GHz to 40 GHz

No other emissions were detected within 6 dB of the limit.

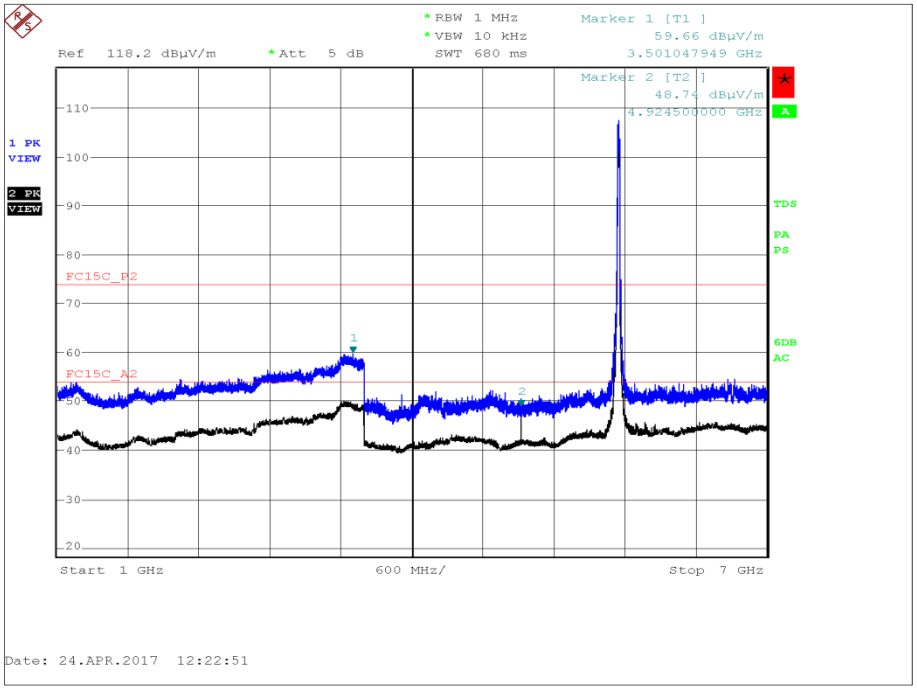

Figure 348 - U-NII 3 - 5745 MHz - 1 GHz to 7 GHz - Horizontal and Vertical

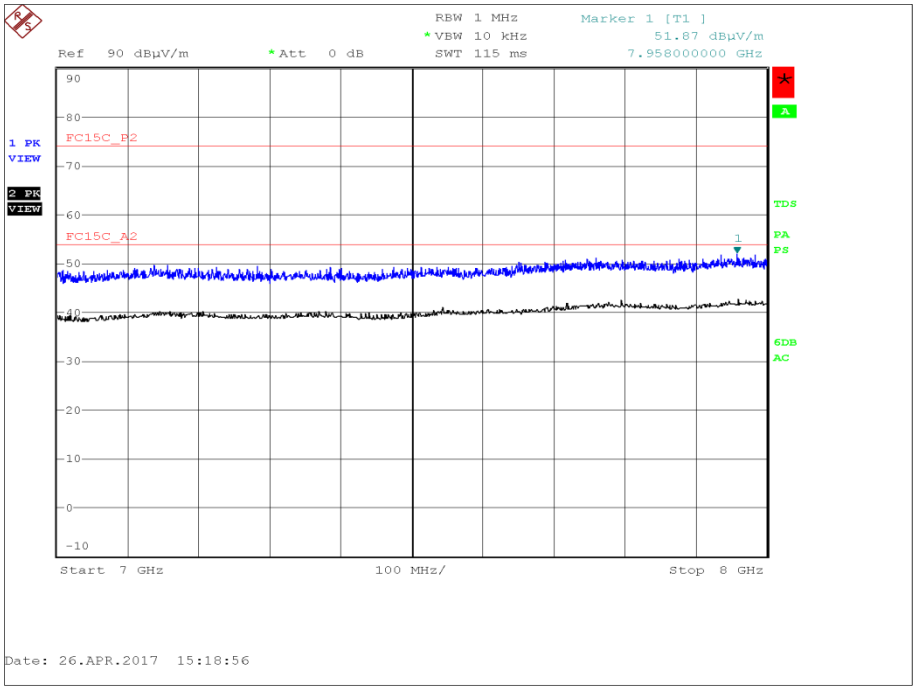

Figure 349 - U-NII 3 - 5745 MHz - 7 GHz to 8 GHz - Horizontal and Vertical

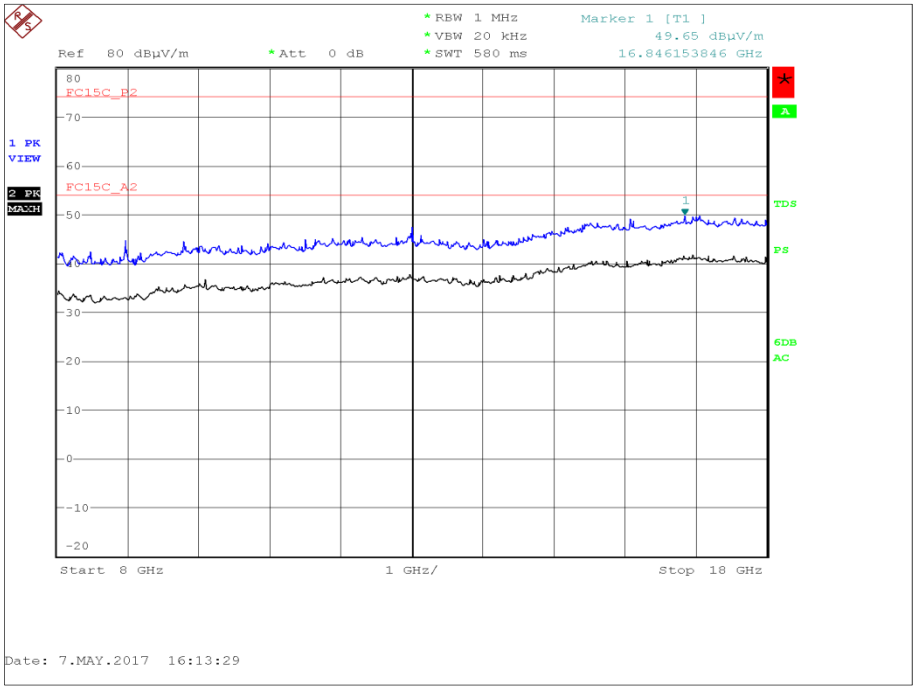

Figure 350 - U-NII 3 - 5745 MHz - 8 GHz to 18 GHz - Horizontal and Vertical

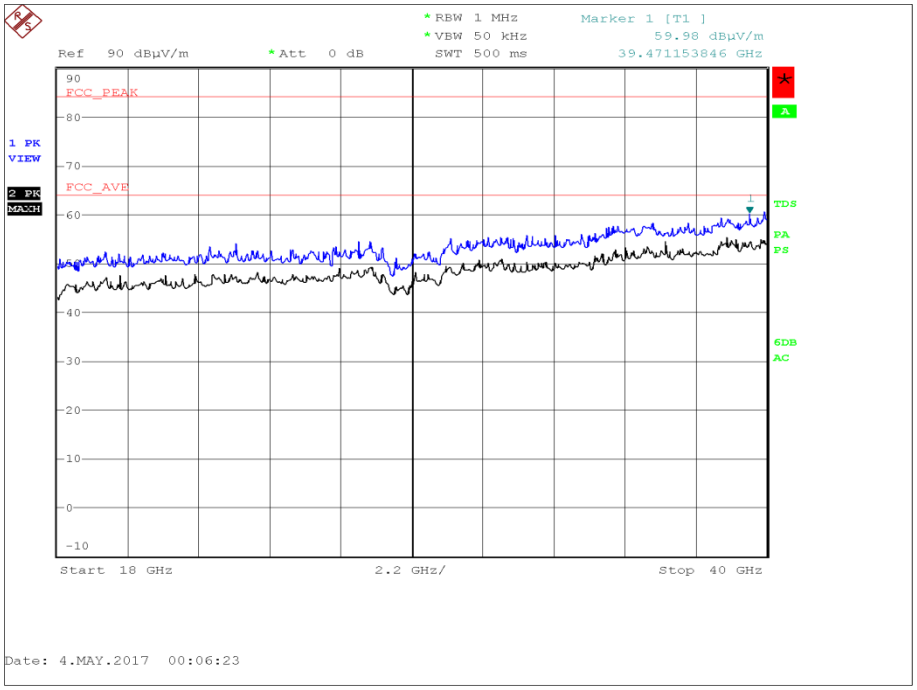

Figure 351 - U-NII 3 - 5745 MHz - 18 GHz to 40 GHz - Horizontal and Vertical

Frequency (MHz)	QP Level (dBuV/m)	QP Limit (dBuV/m)	QP Margin (dBuV/m)	Angle(Deg)	Height(m)	Polarity
37.500	27.3	40.0	-12.7	155	1.00	Vertical
170.413	22.0	43.5	-21.5	74	1.00	Horizontal
245.144	26.9	46.0	-19.1	304	1.00	Vertical
327.083	28.2	46.0	-17.8	358	1.00	Horizontal
410.000	27.4	46.0	-18.6	3	1.00	Horizontal
614.000	30.6	46.0	-15.4	315	1.00	Horizontal

Table 208 - U-NII 3 - 5785 MHz - 30 MHz to 1 GHz

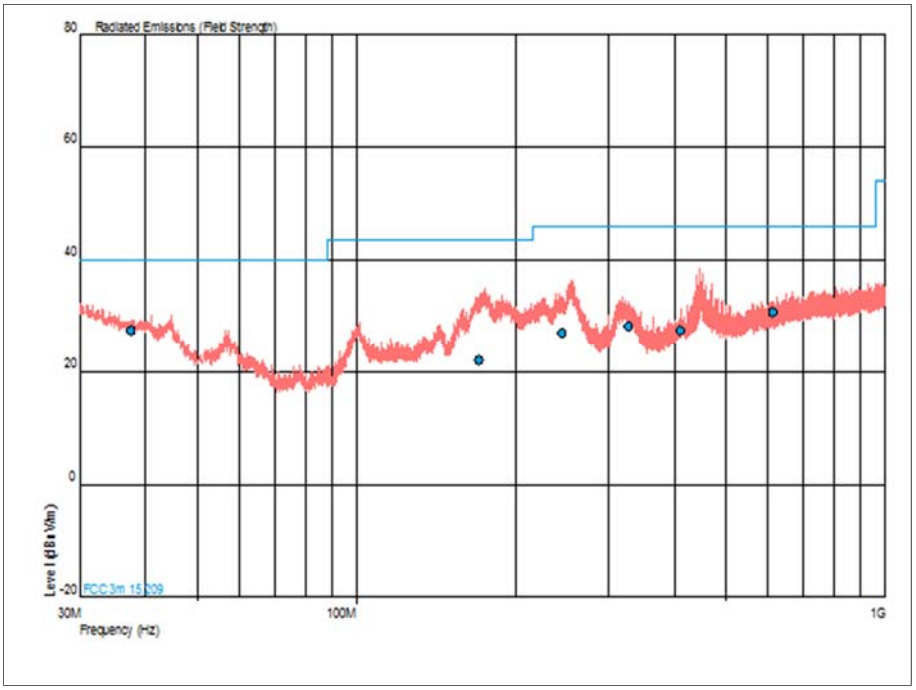

Figure 352 - U-NII 3 - 5785 MHz - 30 MHz to 1 GHz - Horizontal and Vertical

Frequency (GHz)	Result (µV/m)		Limit (µV/m)		Margin (µV/m)	
	Peak	Average	Peak	Average	Peak	Average
4.958	56.27	50.42	74.00	54.00	17.73	3.58

Table 209 - U-NII 3 - 5785 MHz - 1 GHz to 40 GHz

No other emissions were detected within 6 dB of the limit.

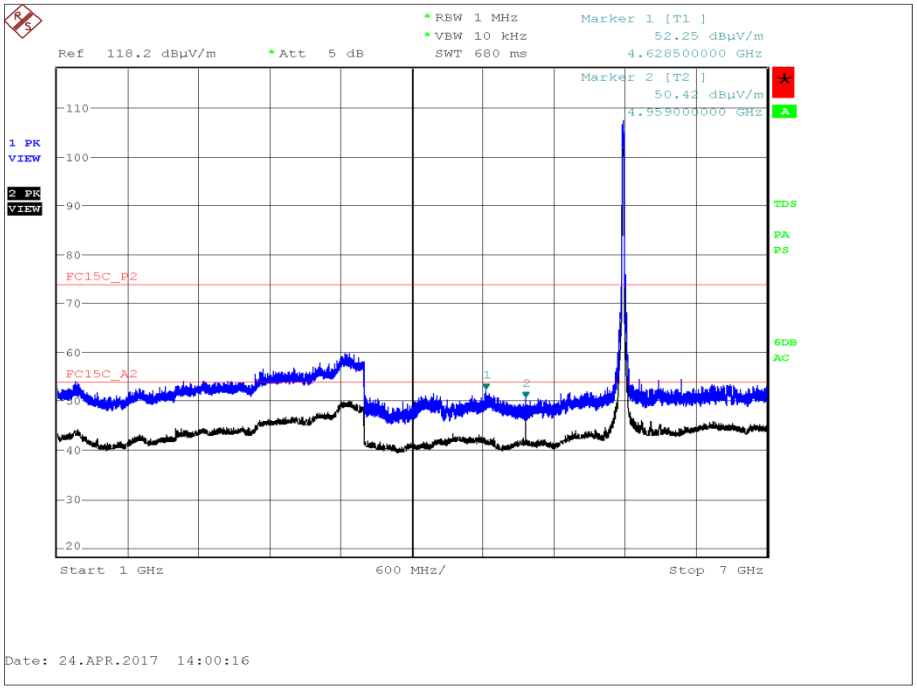

Figure 353 - U-NII 3 - 5785 MHz - 1 GHz to 7 GHz - Horizontal and Vertical

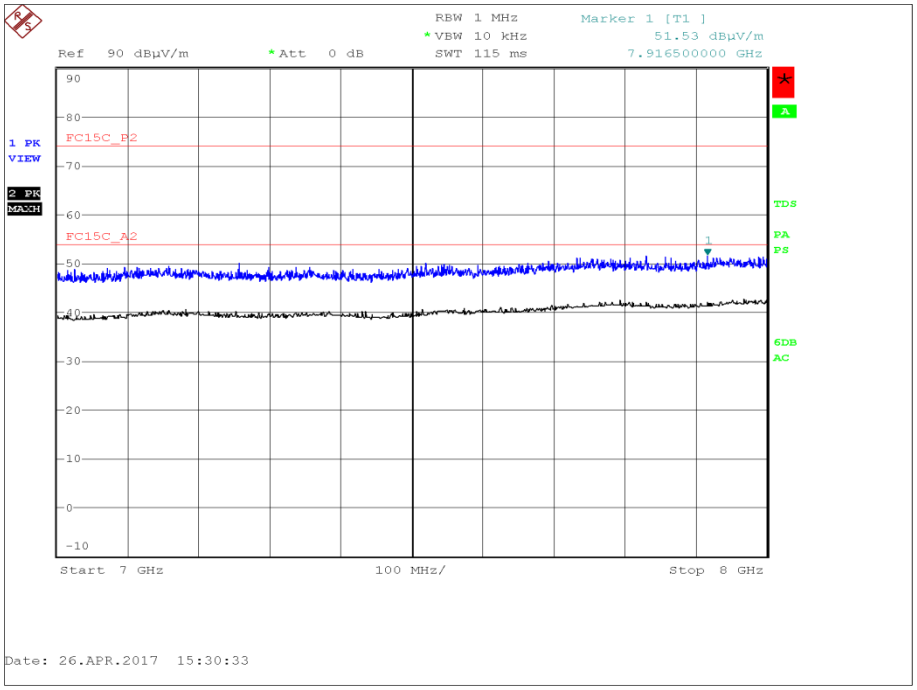

Figure 354 - U-NII 3 - 5785 MHz - 7 GHz to 8 GHz - Horizontal and Vertical

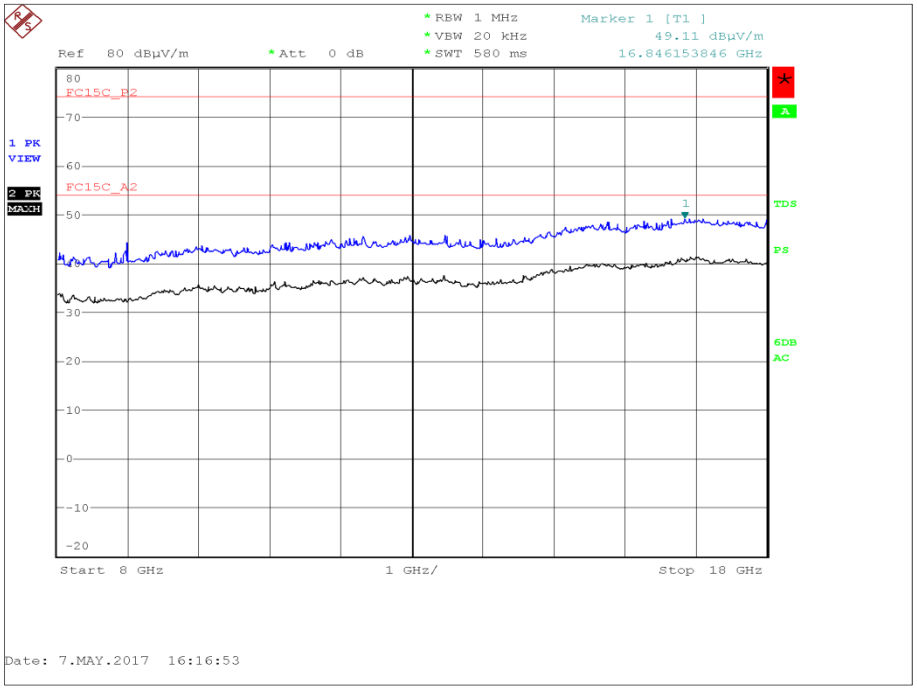

Figure 355 - U-NII 3 - 5785 MHz - 8 GHz to 18 GHz - Horizontal and Vertical

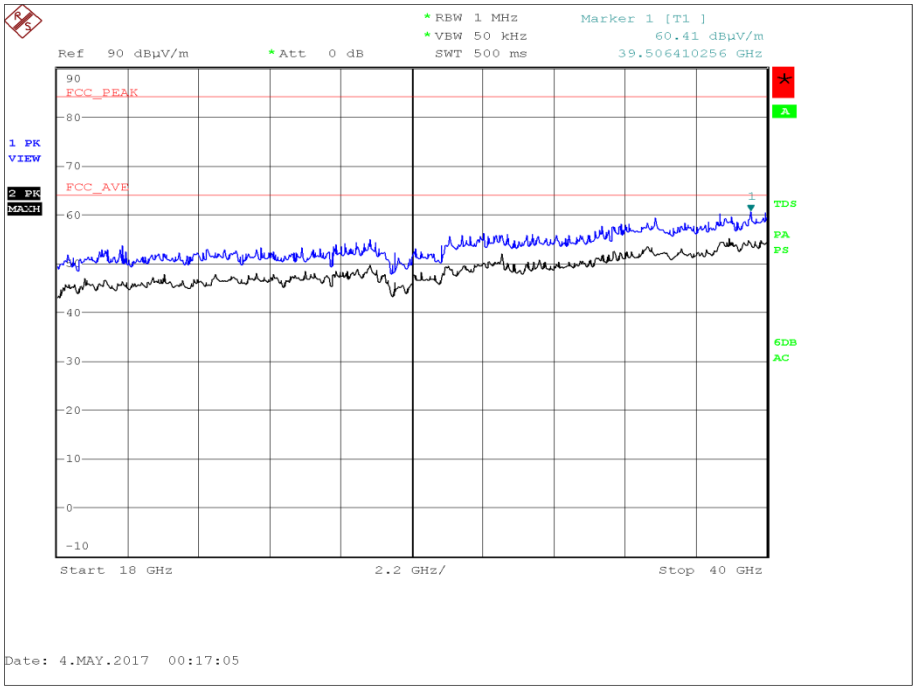

Figure 356 - U-NII 3 - 5785 MHz - 18 GHz to 40 GHz - Horizontal and Vertical

Frequency (MHz)	QP Level (dBuV/m)	QP Limit (dBuV/m)	QP Margin (dBuV/m)	Angle(Deg)	Height(m)	Polarity
37.500	27.1	40.0	-12.9	55	1.00	Horizontal
172.319	25.6	43.5	-17.9	50	1.00	Vertical
249.989	21.8	46.0	-24.2	20	1.00	Horizontal
327.771	31.4	46.0	-14.6	360	1.00	Horizontal
410.000	29.2	46.0	-16.8	110	1.00	Horizontal
614.000	31.0	46.0	-15.0	61	1.00	Horizontal

Table 210 - U-NII 3 - 5825 MHz - 30 MHz to 1 GHz

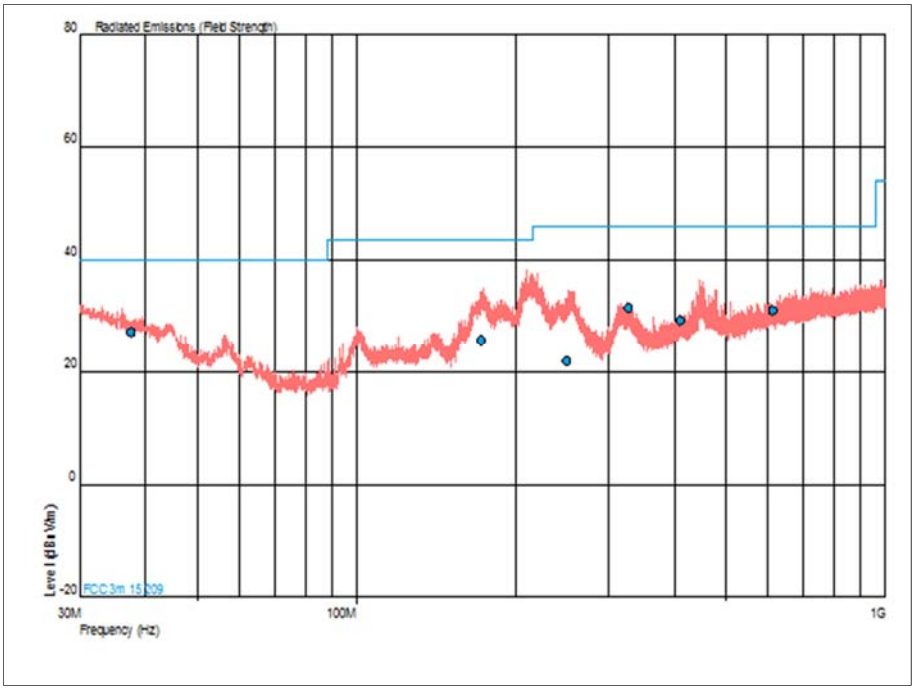

Figure 357 - U-NII 3 - 5825 MHz - 30 MHz to 1 GHz - Horizontal and Vertical

Frequency (GHz)	Result (µV/m)		Limit (µV/m)		Margin (µV/m)	
	Peak	Average	Peak	Average	Peak	Average
4.992	56.54	51.22	74.00	54.00	17.46	2.78

Table 211 - U-NII 3 - 5825 MHz - 1 GHz to 40 GHz

No other emissions were detected within 6 dB of the limit.

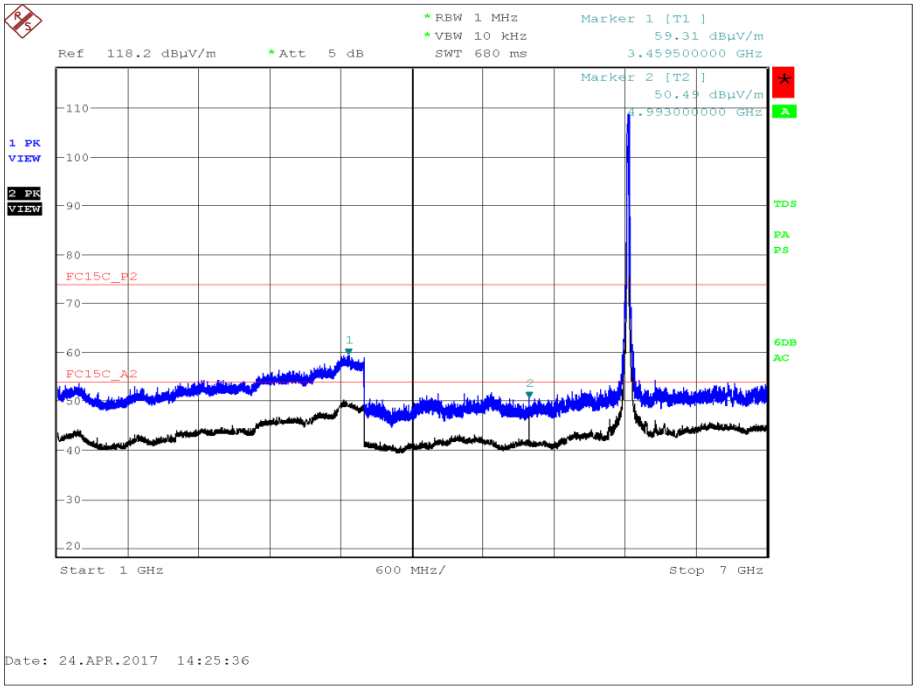

Figure 358 - U-NII 3 - 5825 MHz - 1 GHz to 7 GHz - Horizontal and Vertical

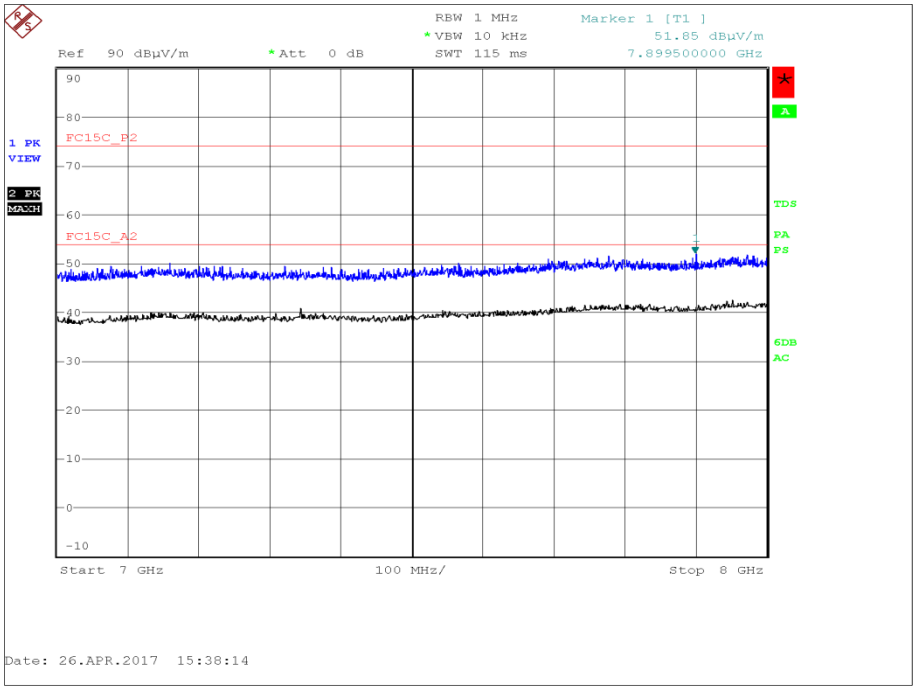

Figure 359 - U-NII 3 - 5825 MHz - 7 GHz to 8 GHz - Horizontal and Vertical

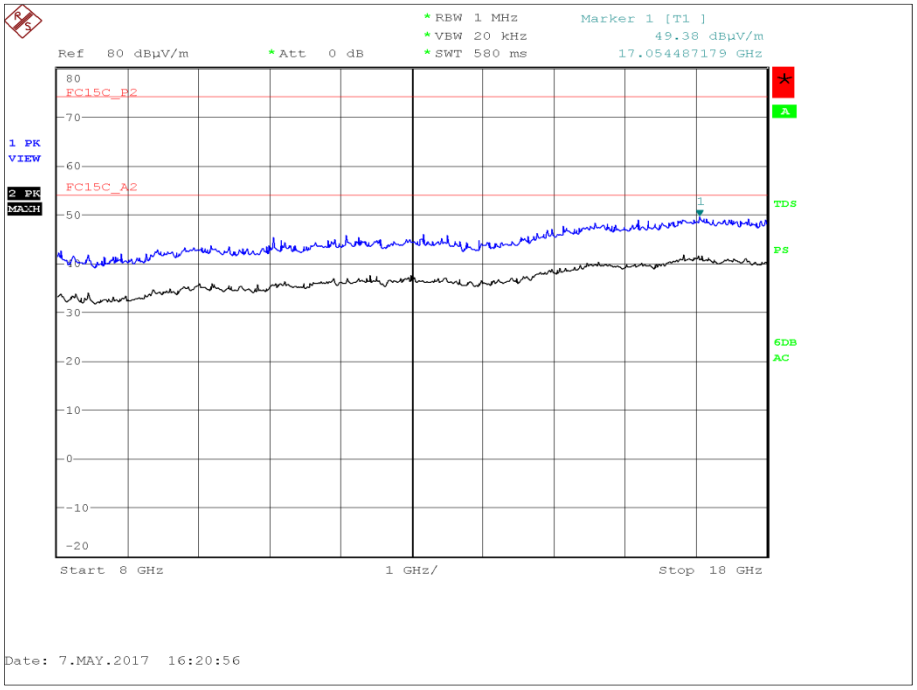

Figure 360 - U-NII 3 - 5825 MHz - 8 GHz to 18 GHz - Horizontal and Vertical

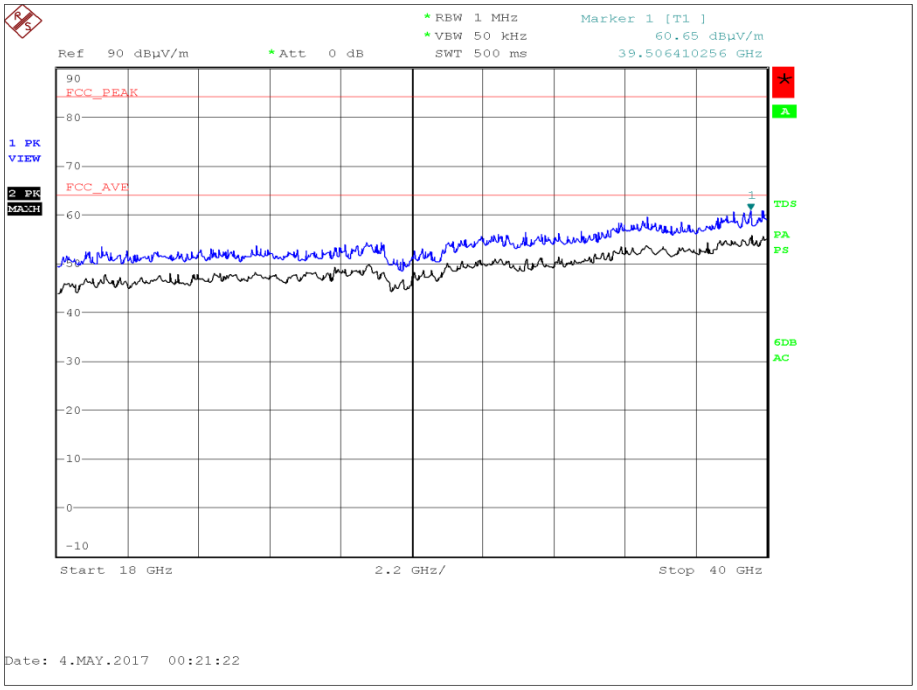

Figure 361 - U-NII 3 - 5825 MHz - 18 GHz to 40 GHz - Horizontal and Vertical

FCC 47 CFR Part 15E, Limit Clause 15.407(b)(1)(2)(3)(4)

Emissions not falling within the restricted bands listed in FCC 47 CFR Part 15E, Clause 15.209:

For transmitters operating in the 5.15-5.25 GHz band: ≤-27 dBm/MHz outside 5150-5350 MHz.
For transmitters operating in the 5.25-5.35 GHz band: ≤-27 dBm/MHz outside 5150-5350 MHz.
For transmitters operating in the 5.47-5.725 GHz band: ≤-27 dBm/MHz outside 5470-5725 MHz
For transmitters operating in the 5.725-5.85 GHz band: All emissions within the frequency range from the band edge to 10 MHz above or below the band edge shall not exceed an e.i.r.p. of -17 dBm/MHz; for frequencies 10 MHz or greater above or below the band edge, emissions shall not exceed an e.i.r.p. of -27 dBm/MHz.

Emissions within the restricted bands listed in FCC 47 CFR Part 15E, Clause 15.209:

Frequency (MHz)	Field Strength (µV/m)	Measurement Distance (m)
0.009 to 0.490	2400/F(kHz)	300
0.490 to 1.705	24000/F(kHz)	30
1.705 to 30	30	30
30 to 88	100	3
88 to 216	150	3
216 to 960	200	3
Above 960	500	3

Industry Canada RSS-247, Limit Clause 6.2.1.2, 6.2.2.2, 6.2.3.2 and 6.2.4.2 and
Industry Canada RSS-GEN, Limit Clause 8.9

Emissions not falling within the restricted bands listed in Industry Canada RSS-GEN, Clause 8.10:

For transmitters with operating frequencies in the band 5150-5250 MHz, all emissions outside the band 5150-5350 MHz shall not exceed -27 dBm/MHz e.i.r.p. Any unwanted emissions that fall into the band 5250-5350 MHz shall be attenuated below the channel power by at least 26 dB.

For transmitters with operating frequencies in the bands 5250-5350 MHz and 5470-5725 MHz, all emissions outside the band 5250-5350 MHz and 5470-5725 MHz shall not exceed -27 dBm/MHz e.i.r.p.

Devices operating in the band 5725-5850 MHz shall have e.i.r.p. of unwanted emissions comply with the following:

a) 27 dBm/MHz at frequencies from the band edges decreasing linearly to 15.6 dBm/MHz at 5 MHz above or below the band edges;
b) 15.6 dBm/MHz at 5 MHz above or below the band edges decreasing linearly to 10 dBm/MHz at 25 MHz above or below the band edges;
c) 10 dBm/MHz at 25 MHz above or below the band edges decreasing linearly to -27 dBm/MHz at 75 MHz above or below the band edges; and
d) -27 dBm/MHz at frequencies more than 75 MHz above or below the band edges.

Emissions not falling within the restricted bands listed in Industry Canada RSS-GEN, Clause 8.10:

Frequency (MHz)	Field Strength (µV/m)
0.009 to 0.490	2400/F(kHz)
0.490 to 1.705	24000/F(kHz)
1.705 to 30	30
30 to 88	100
88 to 216	150
216 to 960	200
Above 960	500

2.7.7 Test Location and Test Equipment Used

This test was carried out in EMC Chamber 5.

Instrument	Manufacturer	Type No	TE No	Calibration Period (months)	Calibration Due
Antenna 18-40GHz (Double Ridge Guide)	Link Microtek Ltd	AM180HA-K-TU2	230	24	12-Feb-2018
Signal Generator (10MHz to 40GHz)	Rohde & Schwarz	SMR40	1002	12	14-Oct-2017
Antenna 18-40GHz (Double Ridge Guide)	Q-Par Angus Ltd	QSH 180K	1511	24	7-Dec-2018
Pre-Amplifier	Phase One	PS04-0086	1533	12	29-Jul-2017
18GHz - 40GHz Pre-Amplifier	Phase One	PSO4-0087	1534	12	23-Jan-2018
Screened Room (5)	Rainford	Rainford	1545	36	20-Dec-2017
Turntable Controller	Inn-Co GmbH	CO 1000	1606	-	TU
Hygromer	Rotronic	A1	2138	12	2-Feb-2018
Filter (Hi Pass)	Lorch	9HP7-7000-SR	2833	12	6-Feb-2018
Antenna (Bilog)	Chase	CBL6143	2904	24	11-Jun-2017
Signal Generator (10MHz to 40GHz)	Rohde & Schwarz	SMR40	3171	12	2-Nov-2017
Cable (N-N, 8m)	Rhophase	NPS-2302-8000-NPS	3248	12	2-May-2018
EMI Test Receiver	Rohde & Schwarz	ESU40	3506	12	12-Nov-2017
Tilt Antenna Mast	maturo Gmbh	TAM 4.0-P	3916	-	TU
Mast Controller	maturo Gmbh	NCD	3917	-	TU
Cable 1503 2M 2.92(P)m 2.92(P)m	Rhophase	KPS-1503A-2000-KPS	4293	12	23-Jan-2018
Suspended Substrate Highpass Filter	Advance Power Components	11SH10-3000/X18000-O/O	4411	12	22-May-2017

Instrument	Manufacturer	Type No	TE No	Calibration Period (months)	Calibration Due
Antenna 18-40GHz (Double Ridge Guide)	Link Microtek Ltd	AM180HA-K-TU2	230	24	12-Feb-2018
Signal Generator (10MHz to 40GHz)	Rohde & Schwarz	SMR40	1002	12	14-Oct-2017
Antenna 18-40GHz (Double Ridge Guide)	Q-Par Angus Ltd	QSH 180K	1511	24	7-Dec-2018
Pre-Amplifier	Phase One	PS04-0086	1533	12	29-Jul-2017
Cable (Rx, Km-Km 2m)	Scott Cables	KPS-1501-2000-KPS	4526	6	23-Jul-2017
Cable (Yellow, Rx, Km-Km 2m)	Scott Cables	KPS-1501-2000-KPS	4527	-	O/P Mon
Cable (Rx, SMAm-SMAm 0.5m)	Scott Cables	SLSLL18-SMSM-00.50M	4528	-	O/P Mon
Double Ridged Waveguide Horn Antenna	ETS-Lindgren	3117	4722	12	17-Feb-2018
9m N type RF cable	Rosenberger	2303-0 9.0m PNm PNm	4827	6	26-Jul-2017
Double Ridge Broadband Horn Antenna	Schwarzbeck	BBHA 9120 B	4848	12	17-Feb-2018

Table 212

TU - Traceability Unscheduled
O/P Mon – Output Monitored using calibrated equipment

3 Measurement Uncertainty

For a 95% confidence level, the measurement uncertainties for defined systems are:

Test Name	Measurement Uncertainty
Maximum Conducted Output Power	± 0.96 dB
Maximum Conducted Power Spectral Density	± 0.96 dB
Emission Bandwidth	± 1.43 MHz
Authorised Band Edges	± 6.3 dB
Restricted Band Edges	± 6.3 dB
Spurious Radiated Emissions	30 MHz to 1 GHz: ± 5.1 dB 1 GHz to 40 GHz: ± 6.3 dB

Table 213