No.	Frequency (MHz)	Reading (dBμV)	Correction factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Antenna Polaxis
IEEE 802.11n-HT20_Channel 52								
1	10520	26.6	5.9	32.5	54	-21.5	Average	Horizontal
2	10520	41.9	5.9	47.8	68.2	-20.4	Peak	Horizontal
3	15780	22.7	11.1	33.8	54	-20.2	Average	Horizontal
4	15780	35.6	11.1	46.7	74	-27.4	Peak	Horizontal
5	10520	26.7	5.9	32.6	54	-21.4	Average	Vertical
6	10520	43.2	5.9	49.1	68.2	-19.1	Peak	Vertical
7	15780	22.8	11.1	33.9	54	-20.1	Average	Vertical
8	15780	36.0	11.1	47.0	74	-27.0	Peak	Vertical
IEEE 802.11n-HT20_Channel 60								
1	10600	24.7	5.8	30.5	54	-23.5	Average	Horizontal
2	10600	36.6	5.8	42.4	74	-31.6	Peak	Horizontal
3	15900	21.8	11.1	32.9	54	-21.1	Average	Horizontal
4	15900	34.1	11.1	45.2	74	-28.8	Peak	Horizontal
5	10600	25.1	5.8	30.9	54	-23.1	Average	Vertical
6	10600	37.6	5.8	43.5	74	-30.5	Peak	Vertical
7	15900	21.9	11.1	33.0	54	-21.0	Average	Vertical
8	15900	34.1	11.1	45.1	74	-28.9	Peak	Vertical
IEEE 802.11n-HT20 _Channel 64								
1	10640	24.6	5.8	30.4	54	-23.6	Average	Horizontal
2	10640	36.9	5.8	42.6	74	-31.4	Peak	Horizontal
3	15960	21.8	11.0	32.9	54	-21.1	Average	Horizontal
4	15960	33.8	11.0	44.8	74	-29.2	Peak	Horizontal
5	10640	25.3	5.8	31.1	54	-23.0	Average	Vertical
6	10640	39.7	5.8	45.5	74	-28.6	Peak	Vertical
7	15960	22.0	11.0	33.0	54	-21.0	Average	Vertical
8	15960	33.8	11.0	44.8	74	-29.2	Peak	Vertical
IEEE 802.11n-HT20_Channel 100								
1	11000	26.7	5.3	32.0	54	-22.0	Average	Horizontal
2	11000	39.4	5.3	44.7	74	-29.3	Peak	Horizontal
3	16500	22.1	12.2	34.2	54	-19.8	Average	Horizontal
4	16500	35.7	12.2	47.9	68.2	-20.3	Peak	Horizontal
5	11000	28.2	5.3	33.5	54	-20.5	Average	Vertical
6	11000	42.3	5.3	47.6	74	-26.4	Peak	Vertical
7	16500	22.2	12.2	34.3	54	-19.7	Average	Vertical
8	16500	34.1	12.2	46.2	68.2	-22.0	Peak	Vertical

No.	Frequency (MHz)	Reading (dBμV)	Correction factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Antenna Polaxis
IEEE 802.11n-HT20_Channel 116								
1	11160	25.4	5.2	30.6	54	-23.4	Average	Horizontal
2	11160	38.0	5.2	43.2	74	-30.8	Peak	Horizontal
3	16740	21.5	12.6	34.1	54	-19.9	Average	Horizontal
4	16740	33.6	12.6	46.2	68.2	-22.0	Peak	Horizontal
5	11160	25.7	5.2	30.9	54	-23.1	Average	Vertical
6	11160	39.9	5.2	45.1	74	-28.9	Peak	Vertical
7	16740	21.6	12.6	34.2	54	-19.8	Average	Vertical
8	16740	33.4	12.6	45.9	68.2	-22.3	Peak	Vertical
IEEE 802.11n-HT20_Channel 140								
1	11400	24.8	5.1	29.8	54	-24.2	Average	Horizontal
2	11400	37.8	5.1	42.8	74	-31.2	Peak	Horizontal
3	17100	21.8	13.3	35.1	54	-18.9	Average	Horizontal
4	17100	34.1	13.3	47.4	68.2	-20.8	Peak	Horizontal
5	11400	25.5	5.1	30.6	54	-23.5	Average	Vertical
6	11400	37.5	5.1	42.5	74	-31.5	Peak	Vertical
7	17100	21.7	13.3	35.0	54	-19.0	Average	Vertical
8	17100	34.0	13.3	47.4	68.2	-20.8	Peak	Vertical
IEEE 802.11n-HT20_Channel 144								
1	11440	32.5	2.1	34.5	54	-19.5	Average	Horizontal
2	11440	44.7	2.1	46.8	74	-27.2	Peak	Horizontal
3	17160	31.4	8.9	40.3	54	-13.7	Average	Horizontal
4	17160	43.8	8.9	52.7	68.2	-15.5	Peak	Horizontal
5	11440	33.2	2.1	35.3	54	-18.7	Average	Vertical
6	11440	46.5	2.1	48.6	74	-25.4	Peak	Vertical
7	17160	31.0	8.9	39.9	54	-14.1	Average	Vertical
8	17160	43.6	8.9	52.5	68.2	-15.7	Peak	Vertical
IEEE 802.11n-HT20_Channel 149								
1	11490	23.8	5.0	28.8	54	-25.2	Average	Horizontal
2	11490	36.0	5.0	41.0	74	-33.0	Peak	Horizontal
3	17235	21.4	13.8	35.2	54	-18.8	Average	Horizontal
4	17235	33.7	13.8	47.5	68.2	-20.7	Peak	Horizontal
5	11490	24.1	5.0	29.1	54	-25.0	Average	Vertical
6	11490	37.1	5.0	42.1	74	-31.9	Peak	Vertical
7	17235	21.4	13.8	35.2	54	-18.8	Average	Vertical
8	17235	34.0	13.8	47.8	68.2	-20.4	Peak	Vertical

No.	Frequency (MHz)	Reading (dBμV)	Correction factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Antenna Polaxis
IEEE 802.11n-HT20_Channel 157								
1	11570	24.8	5.0	29.7	54	-24.3	Average	Horizontal
2	11570	37.7	5.0	42.7	74	-31.4	Peak	Horizontal
3	17355	21.6	14.3	35.8	54	-18.2	Average	Horizontal
4	17355	34.0	14.3	48.3	68.2	-19.9	Peak	Horizontal
5	11570	24.8	5.0	29.7	54	-24.3	Average	Vertical
6	11570	37.1	5.0	42.0	74	-32.0	Peak	Vertical
7	17355	21.7	14.3	36.0	54	-18.0	Average	Vertical
8	17355	33.6	14.3	47.9	68.2	-20.3	Peak	Vertical
IEEE 802.11n-HT20_Channel 165								
1	11650	24.9	4.9	29.9	54	-24.2	Average	Horizontal
2	11650	38.2	4.9	43.1	74	-30.9	Peak	Horizontal
3	17475	21.3	14.7	36.0	54	-18.0	Average	Horizontal
4	17475	32.9	14.7	47.6	68.2	-20.6	Peak	Horizontal
5	11650	25.1	4.9	30.0	54	-24.0	Average	Vertical
6	11650	37.7	4.9	42.6	74	-31.4	Peak	Vertical
7	17475	21.1	14.7	35.8	54	-18.2	Average	Vertical
8	17475	33.2	14.7	47.9	68.2	-20.3	Peak	Vertical
IEEE 802.11n-HT40_Channel 38								
1	10380	28.7	6.1	34.8	54	-19.2	Average	Horizontal
2	10380	40.3	6.1	46.4	68.2	-21.8	Peak	Horizontal
3	15570	22.6	11.1	33.7	54	-20.3	Average	Horizontal
4	15570	35.2	11.1	46.3	74	-27.7	Peak	Horizontal
5	10380	28.8	6.1	35.0	54	-19.1	Average	Vertical
6	10380	42.6	6.1	48.7	68.2	-19.5	Peak	Vertical
7	15570	22.7	11.1	33.8	54	-20.2	Average	Vertical
8	15570	35.5	11.1	46.6	74	-27.4	Peak	Vertical
IEEE 802.11n-HT40_Channel 46								
1	10460	28.8	6.0	34.8	54	-19.2	Average	Horizontal
2	10460	41.2	6.0	47.2	68.2	-21.0	Peak	Horizontal
3	15690	23.0	11.1	34.1	54	-19.9	Average	Horizontal
4	15690	35.6	11.1	46.7	74	-27.3	Peak	Horizontal
5	10460	28.2	6.0	34.2	54	-19.8	Average	Vertical
6	10460	41.3	6.0	47.3	68.2	-20.9	Peak	Vertical
7	15690	23.0	11.1	34.1	54	-19.9	Average	Vertical
8	15690	35.3	11.1	46.4	74	-27.6	Peak	Vertical

No.	Frequency (MHz)	Reading (dBμV)	Correction factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Antenna Polaxis
IEEE 802.11n-HT40_Channel 54								
1	10540	26.1	5.9	32.0	54	-22.0	Average	Horizontal
2	10540	38.3	5.9	44.2	68.2	-24.0	Peak	Horizontal
3	15810	22.2	11.1	33.2	54	-20.8	Average	Horizontal
4	15810	34.6	11.1	45.7	74	-28.3	Peak	Horizontal
5	10540	26.1	5.9	32.0	54	-22.0	Average	Vertical
6	10540	38.6	5.9	44.5	68.2	-23.8	Peak	Vertical
7	15810	22.2	11.1	33.2	54	-20.8	Average	Vertical
8	15810	34.1	11.1	45.2	74	-28.8	Peak	Vertical
IEEE 802.11n-HT40_Channel 62								
1	10620	24.5	5.8	30.3	54	-23.7	Average	Horizontal
2	10620	36.6	5.8	42.4	74	-31.6	Peak	Horizontal
3	15930	21.8	11.0	32.9	54	-21.1	Average	Horizontal
4	15930	34.3	11.0	45.3	74	-28.7	Peak	Horizontal
5	10620	25.6	5.8	31.4	54	-22.6	Average	Vertical
6	10620	37.4	5.8	43.2	74	-30.9	Peak	Vertical
7	15930	21.8	11.0	32.9	54	-21.1	Average	Vertical
8	15930	34.3	11.0	45.3	74	-28.7	Peak	Vertical
IEEE 802.11n-HT40_Channel 102								
1	11020	26.0	5.3	31.3	54	-22.7	Average	Horizontal
2	11020	39.0	5.3	44.3	74	-29.7	Peak	Horizontal
3	16530	22.1	12.2	34.3	54	-19.7	Average	Horizontal
4	16530	34.8	12.2	47.0	68.2	-21.2	Peak	Horizontal
5	11020	27.1	5.3	32.4	54	-21.6	Average	Vertical
6	11020	40.3	5.3	45.6	74	-28.4	Peak	Vertical
7	16530	22.2	12.2	34.4	54	-19.6	Average	Vertical
8	16530	35.1	12.2	47.3	68.2	-20.9	Peak	Vertical
IEEE 802.11n-HT40_Channel 110								
1	11100	25.3	5.3	30.6	54	-23.4	Average	Horizontal
2	11100	37.3	5.3	42.5	74	-31.5	Peak	Horizontal
3	16650	21.8	12.4	34.2	54	-19.8	Average	Horizontal
4	16650	33.8	12.4	46.2	68.2	-22.0	Peak	Horizontal
5	11100	26.1	5.3	31.3	54	-22.7	Average	Vertical
6	11100	38.7	5.3	44.0	74	-30.1	Peak	Vertical
7	16650	21.8	12.4	34.2	54	-19.8	Average	Vertical
8	16650	34.2	12.4	46.6	68.2	-21.6	Peak	Vertical

No.	Frequency (MHz)	Reading (dBμV)	Correction factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Antenna Polaxis
IEEE 802.11n-HT40_Channel 134								
1	11340	23.5	5.1	28.6	54	-25.4	Average	Horizontal
2	11340	35.9	5.1	41.0	74	-33.0	Peak	Horizontal
3	17010	21.6	13.0	34.7	54	-19.3	Average	Horizontal
4	17010	33.8	13.0	46.9	68.2	-21.4	Peak	Horizontal
5	11340	24.0	5.1	29.1	54	-24.9	Average	Vertical
6	11340	35.9	5.1	41.0	74	-33.0	Peak	Vertical
7	17010	21.8	13.0	34.8	54	-19.2	Average	Vertical
8	17010	34.1	13.0	47.1	68.2	-21.1	Peak	Vertical
IEEE 802.11n-HT40_Channel 142								
1	11420	31.9	2.1	34.0	54	-20.0	Average	Horizontal
2	11420	43.8	2.1	45.9	74	-28.1	Peak	Horizontal
3	17130	31.6	8.8	40.4	54	-13.6	Average	Horizontal
4	17130	43.7	8.8	52.6	68.2	-15.7	Peak	Horizontal
5	11420	32.2	2.1	34.3	54	-19.7	Average	Vertical
6	11420	43.9	2.1	46.0	74	-28.0	Peak	Vertical
7	17130	31.4	8.8	40.3	54	-13.8	Average	Vertical
8	17130	44.3	8.8	53.2	68.2	-15.0	Peak	Vertical
IEEE 802.11n-HT40_Channel 151								
1	11510	24.3	5.0	29.2	54	-24.8	Average	Horizontal
2	11510	35.9	5.0	40.9	74	-33.1	Peak	Horizontal
3	17265	21.2	13.9	35.1	54	-18.9	Average	Horizontal
4	17265	33.6	13.9	47.5	68.2	-20.7	Peak	Horizontal
5	11510	24.3	5.0	29.3	54	-24.7	Average	Vertical
6	11510	36.5	5.0	41.5	74	-32.5	Peak	Vertical
7	17265	21.2	13.9	35.1	54	-18.9	Average	Vertical
8	17265	34.3	13.9	48.2	68.2	-20.0	Peak	Vertical
IEEE 802.11n-HT40_Channel 159								
1	11590	24.7	4.9	29.6	54	-24.4	Average	Horizontal
2	11590	37.0	4.9	41.9	74	-32.1	Peak	Horizontal
3	17385	21.5	14.4	35.8	54	-18.2	Average	Horizontal
4	17385	35.1	14.4	49.5	68.2	-18.7	Peak	Horizontal
5	11590	24.9	4.9	29.8	54	-24.2	Average	Vertical
6	11590	37.2	4.9	42.1	74	-31.9	Peak	Vertical
7	17385	21.6	14.4	36.0	54	-18.0	Average	Vertical
8	17385	33.1	14.4	47.5	68.2	-20.7	Peak	Vertical

No.	Frequency (MHz)	Reading (dBμV)	Correction factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Antenna Polaxis
IEEE 802.11ax-HE20_Channel 36								
1	10360	27.8	6.2	33.9	54	-20.1	Average	Horizontal
2	10360	42.8	6.2	49.0	68.2	-19.2	Peak	Horizontal
3	15540	22.6	11.1	33.7	54	-20.3	Average	Horizontal
4	15540	34.4	11.1	45.6	74	-28.5	Peak	Horizontal
5	10360	28.3	6.2	34.4	54	-19.6	Average	Vertical
6	10360	41.8	6.2	48.0	68.2	-20.2	Peak	Vertical
7	15540	22.6	11.1	33.7	54	-20.3	Average	Vertical
8	15540	34.4	11.1	45.5	74	-28.5	Peak	Vertical
IEEE 802.11ax-HE20_Channel 44								
1	10440	29.4	6.0	35.4	54	-18.6	Average	Horizontal
2	10440	44.7	6.0	50.7	68.2	-17.5	Peak	Horizontal
3	15660	23.0	11.1	34.1	54	-19.9	Average	Horizontal
4	15660	35.8	11.1	46.8	74	-27.2	Peak	Horizontal
5	10440	29.1	6.0	35.1	54	-18.9	Average	Vertical
6	10440	44.0	6.0	50.0	68.2	-18.2	Peak	Vertical
7	15660	23.1	11.1	34.2	54	-19.8	Average	Vertical
8	15660	34.8	11.1	45.9	74	-28.1	Peak	Vertical
IEEE 802.11ax-HE20_Channel 48								
1	10480	26.7	6.0	32.7	54	-21.3	Average	Horizontal
2	10480	41.1	6.0	47.1	68.2	-21.1	Peak	Horizontal
3	15720	22.8	11.1	33.9	54	-20.1	Average	Horizontal
4	15720	34.9	11.1	45.9	74	-28.1	Peak	Horizontal
5	10480	26.9	6.0	32.9	54	-21.1	Average	Vertical
6	10480	42.2	6.0	48.1	68.2	-20.1	Peak	Vertical
7	15720	22.8	11.1	33.9	54	-20.1	Average	Vertical
8	15720	35.4	11.1	46.5	74	-27.5	Peak	Vertical
IEEE 802.11ax-HE20_Channel 52								
1	10520	26.5	5.9	32.5	54	-21.6	Average	Horizontal
2	10520	39.9	5.9	45.8	68.2	-22.4	Peak	Horizontal
3	15780	22.7	11.1	33.8	54	-20.2	Average	Horizontal
4	15780	34.8	11.1	45.9	74	-28.2	Peak	Horizontal
5	10520	26.8	5.9	32.7	54	-21.3	Average	Vertical
6	10520	42.0	5.9	47.9	68.2	-20.3	Peak	Vertical
7	15780	22.9	11.1	34.0	54	-20.0	Average	Vertical
8	15780	35.0	11.1	46.1	74	-27.9	Peak	Vertical

No.	Frequency (MHz)	Reading (dBμV)	Correction factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Antenna Polaxis
IEEE 802.11ax-HE20_Channel 60								
1	10600	24.8	5.8	30.7	54	-23.4	Average	Horizontal
2	10600	36.7	5.8	42.5	74	-31.5	Peak	Horizontal
3	15900	21.7	11.1	32.7	54	-21.3	Average	Horizontal
4	15900	33.9	11.1	45.0	74	-29.0	Peak	Horizontal
5	10600	25.2	5.8	31.0	54	-23.0	Average	Vertical
6	10600	38.0	5.8	43.8	74	-30.2	Peak	Vertical
7	15900	21.8	11.1	32.9	54	-21.1	Average	Vertical
8	15900	34.5	11.1	45.6	74	-28.4	Peak	Vertical
IEEE 802.11ax-HE20_Channel 64								
1	10640	23.7	5.8	29.5	54	-24.5	Average	Horizontal
2	10640	39.3	5.8	45.0	74	-29.0	Peak	Horizontal
3	15960	21.7	11.0	32.7	54	-21.3	Average	Horizontal
4	15960	35.9	11.0	47.0	74	-27.0	Peak	Horizontal
5	10640	23.7	5.8	29.5	54	-24.5	Average	Vertical
6	10640	36.3	5.8	42.0	74	-32.0	Peak	Vertical
7	15960	21.7	11.0	32.7	54	-21.3	Average	Vertical
8	15960	33.9	11.0	45.0	74	-29.0	Peak	Vertical
IEEE 802.11ax-HE20_Channel 100								
1	11000	26.5	5.3	31.8	54	-22.2	Average	Horizontal
2	11000	38.1	5.3	43.4	74	-30.6	Peak	Horizontal
3	16500	22.1	12.2	34.2	54	-19.8	Average	Horizontal
4	16500	34.9	12.2	47.1	68.2	-21.1	Peak	Horizontal
5	11000	28.2	5.3	33.6	54	-20.4	Average	Vertical
6	11000	43.8	5.3	49.1	74	-24.9	Peak	Vertical
7	16500	22.2	12.2	34.3	54	-19.7	Average	Vertical
8	16500	33.9	12.2	46.0	68.2	-22.2	Peak	Vertical
IEEE 802.11ax-HE20_Channel 116								
1	11160	25.1	5.2	30.3	54	-23.7	Average	Horizontal
2	11160	38.2	5.2	43.4	74	-30.6	Peak	Horizontal
3	16740	21.4	12.6	33.9	54	-20.1	Average	Horizontal
4	16740	34.5	12.6	47.1	68.2	-21.1	Peak	Horizontal
5	11160	25.9	5.2	31.1	54	-22.9	Average	Vertical
6	11160	42.0	5.2	47.2	74	-26.8	Peak	Vertical
7	16740	21.5	12.6	34.1	54	-19.9	Average	Vertical
8	16740	33.6	12.6	46.2	68.2	-22.0	Peak	Vertical

No.	Frequency (MHz)	Reading (dBμV)	Correction factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Antenna Polaxis
IEEE 802.11ax-HE20_Channel 140								
1	11400	24.8	5.1	29.8	54	-24.2	Average	Horizontal
2	11400	37.7	5.1	42.8	74	-31.2	Peak	Horizontal
3	17100	21.4	13.3	34.8	54	-19.3	Average	Horizontal
4	17100	33.5	13.3	46.9	68.2	-21.4	Peak	Horizontal
5	11400	25.4	5.1	30.4	54	-23.6	Average	Vertical
6	11400	37.4	5.1	42.4	74	-31.6	Peak	Vertical
7	17100	21.7	13.3	35.0	54	-19.0	Average	Vertical
8	17100	33.9	13.3	47.3	68.2	-20.9	Peak	Vertical
IEEE 802.11ax-HE20_Channel 144								
1	11440	32.7	2.1	34.7	54	-19.3	Average	Horizontal
2	11440	45.3	2.1	47.3	74	-26.7	Peak	Horizontal
3	17160	31.2	8.9	40.1	54	-13.9	Average	Horizontal
4	17160	43.7	8.9	52.6	68.2	-15.6	Peak	Horizontal
5	11440	32.8	2.1	34.8	54	-19.2	Average	Vertical
6	11440	46.9	2.1	49.0	74	-25.0	Peak	Vertical
7	17160	31.2	8.9	40.0	54	-14.0	Average	Vertical
8	17160	44.3	8.9	53.2	68.2	-15.0	Peak	Vertical
IEEE 802.11ax-HE20_Channel 149								
1	11490	23.6	5.0	28.6	54	-25.4	Average	Horizontal
2	11490	37.1	5.0	42.1	74	-31.9	Peak	Horizontal
3	17235	21.1	13.8	35.0	54	-19.0	Average	Horizontal
4	17235	33.6	13.8	47.4	68.2	-20.8	Peak	Horizontal
5	11490	24.1	5.0	29.1	54	-25.0	Average	Vertical
6	11490	36.2	5.0	41.2	74	-32.8	Peak	Vertical
7	17235	21.1	13.8	35.0	54	-19.0	Average	Vertical
8	17235	33.3	13.8	47.1	68.2	-21.1	Peak	Vertical
IEEE 802.11ax-HE20_Channel 157								
1	11570	24.7	5.0	29.6	54	-24.4	Average	Horizontal
2	11570	37.6	5.0	42.5	74	-31.5	Peak	Horizontal
3	17355	21.6	14.3	35.8	54	-18.2	Average	Horizontal
4	17355	34.2	14.3	48.4	68.2	-19.8	Peak	Horizontal
5	11570	24.9	5.0	29.9	54	-24.1	Average	Vertical
6	11570	37.5	5.0	42.4	74	-31.6	Peak	Vertical
7	17355	21.6	14.3	35.8	54	-18.2	Average	Vertical
8	17355	33.8	14.3	48.1	68.2	-20.1	Peak	Vertical

No.	Frequency (MHz)	Reading (dBμV)	Correction factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Antenna Polaxis
IEEE 802.11ax-HE20_Channel 165								
1	11650	24.9	4.9	29.9	54	-24.2	Average	Horizontal
2	11650	37.4	4.9	42.4	74	-31.7	Peak	Horizontal
3	17475	21.1	14.7	35.8	54	-18.2	Average	Horizontal
4	17475	34.1	14.7	48.8	68.2	-19.4	Peak	Horizontal
5	11650	25.1	4.9	30.0	54	-24.0	Average	Vertical
6	11650	36.8	4.9	41.7	74	-32.3	Peak	Vertical
7	17475	21.1	14.7	35.8	54	-18.2	Average	Vertical
8	17475	33.2	14.7	47.9	68.2	-20.3	Peak	Vertical
IEEE 802.11ax-HE40_Channel 38								
1	10380	29.2	6.1	35.4	54	-18.6	Average	Horizontal
2	10380	41.6	6.1	47.8	68.2	-20.5	Peak	Horizontal
3	15570	22.6	11.1	33.7	54	-20.3	Average	Horizontal
4	15570	34.8	11.1	45.9	74	-28.1	Peak	Horizontal
5	10380	29.4	6.1	35.5	54	-18.5	Average	Vertical
6	10380	42.2	6.1	48.3	68.2	-19.9	Peak	Vertical
7	15570	22.6	11.1	33.7	54	-20.3	Average	Vertical
8	15570	35.1	11.1	46.2	74	-27.8	Peak	Vertical
IEEE 802.11ax-HE40_Channel 46								
1	10460	29.0	6.0	35.0	54	-19.0	Average	Horizontal
2	10460	40.3	6.0	46.4	68.2	-21.9	Peak	Horizontal
3	15690	22.9	11.1	34.0	54	-20.0	Average	Horizontal
4	15690	35.2	11.1	46.3	74	-27.7	Peak	Horizontal
5	10460	28.8	6.0	34.8	54	-19.2	Average	Vertical
6	10460	42.1	6.0	48.1	68.2	-20.1	Peak	Vertical
7	15690	23.0	11.1	34.1	54	-19.9	Average	Vertical
8	15690	35.3	11.1	46.3	74	-27.7	Peak	Vertical
IEEE 802.11ax-HE40_Channel 54								
1	10540	25.9	5.9	31.7	54	-22.3	Average	Horizontal
2	10540	38.9	5.9	44.8	68.2	-23.5	Peak	Horizontal
3	15810	22.2	11.1	33.2	54	-20.8	Average	Horizontal
4	15810	34.8	11.1	45.8	74	-28.2	Peak	Horizontal
5	10540	26.4	5.9	32.3	54	-21.7	Average	Vertical
6	10540	39.0	5.9	44.9	68.2	-23.3	Peak	Vertical
7	15810	22.3	11.1	33.3	54	-20.7	Average	Vertical
8	15810	34.5	11.1	45.5	74	-28.5	Peak	Vertical

No.	Frequency (MHz)	Reading (dBμV)	Correction factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Antenna Polaxis
IEEE 802.11ax-HE40_Channel 62								
1	10620	24.4	5.8	30.2	54	-23.8	Average	Horizontal
2	10620	36.9	5.8	42.7	74	-31.3	Peak	Horizontal
3	15930	21.7	11.0	32.7	54	-21.3	Average	Horizontal
4	15930	34.0	11.0	45.1	74	-29.0	Peak	Horizontal
5	10620	25.5	5.8	31.3	54	-22.7	Average	Vertical
6	10620	37.6	5.8	43.4	74	-30.6	Peak	Vertical
7	15930	21.8	11.0	32.9	54	-21.1	Average	Vertical
8	15930	34.6	11.0	45.6	74	-28.4	Peak	Vertical
IEEE 802.11ax-HE40_Channel 102								
1	11020	25.8	5.3	31.1	54	-22.9	Average	Horizontal
2	11020	38.1	5.3	43.4	74	-30.6	Peak	Horizontal
3	16530	21.9	12.2	34.1	54	-19.9	Average	Horizontal
4	16530	34.5	12.2	46.7	68.2	-21.5	Peak	Horizontal
5	11020	27.1	5.3	32.4	54	-21.6	Average	Vertical
6	11020	40.4	5.3	45.7	74	-28.3	Peak	Vertical
7	16530	22.1	12.2	34.3	54	-19.7	Average	Vertical
8	16530	35.1	12.2	47.3	68.2	-20.9	Peak	Vertical
IEEE 802.11ax-HE40_Channel 110								
1	11100	25.1	5.3	30.3	54	-23.7	Average	Horizontal
2	11100	37.8	5.3	43.1	74	-30.9	Peak	Horizontal
3	16650	21.5	12.4	33.9	54	-20.1	Average	Horizontal
4	16650	34.3	12.4	46.7	68.2	-21.5	Peak	Horizontal
5	11100	26.1	5.3	31.3	54	-22.7	Average	Vertical
6	11100	40.1	5.3	45.4	74	-28.6	Peak	Vertical
7	16650	21.7	12.4	34.1	54	-19.9	Average	Vertical
8	16650	33.7	12.4	46.1	68.2	-22.1	Peak	Vertical
IEEE 802.11ax-HE40_Channel 134								
1	11340	23.4	5.1	28.5	54	-25.5	Average	Horizontal
2	11340	34.8	5.1	39.9	74	-34.1	Peak	Horizontal
3	17010	21.4	13.0	34.4	54	-19.6	Average	Horizontal
4	17010	33.6	13.0	46.6	68.2	-21.6	Peak	Horizontal
5	11340	23.9	5.1	29.0	54	-25.0	Average	Vertical
6	11340	35.1	5.1	40.2	74	-33.8	Peak	Vertical
7	17010	21.5	13.0	34.5	54	-19.5	Average	Vertical
8	17010	33.7	13.0	46.8	68.2	-21.4	Peak	Vertical

No.	Frequency (MHz)	Reading (dBμV)	Correction factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Antenna Polaxis
IEEE 802.11ax-HE40_Channel 142								
1	11420	31.9	2.1	34.0	54	-20.0	Average	Horizontal
2	11420	44.1	2.1	46.2	74	-27.8	Peak	Horizontal
3	17130	31.5	8.8	40.3	54	-13.7	Average	Horizontal
4	17130	44.2	8.8	53.1	68.2	-15.1	Peak	Horizontal
5	11420	32.0	2.1	34.1	54	-19.9	Average	Vertical
6	11420	45.5	2.1	47.6	74	-26.4	Peak	Vertical
7	17130	31.3	8.8	40.2	54	-13.8	Average	Vertical
8	17130	43.7	8.8	52.5	68.2	-15.7	Peak	Vertical
IEEE 802.11ax-HE40_Channel 151								
1	11510	24.3	5.0	29.2	54	-24.8	Average	Horizontal
2	11510	36.3	5.0	41.3	74	-32.8	Peak	Horizontal
3	17265	20.9	13.9	34.8	54	-19.2	Average	Horizontal
4	17265	33.1	13.9	47.0	68.2	-21.2	Peak	Horizontal
5	11510	24.8	5.0	29.8	54	-24.3	Average	Vertical
6	11510	36.1	5.0	41.1	74	-33.0	Peak	Vertical
7	17265	20.8	13.9	34.7	54	-19.3	Average	Vertical
8	17265	33.9	13.9	47.8	68.2	-20.4	Peak	Vertical
IEEE 802.11ax-HE40_Channel 159								
1	11590	24.4	4.9	29.3	54	-24.7	Average	Horizontal
2	11590	37.2	4.9	42.2	74	-31.9	Peak	Horizontal
3	17385	21.2	14.4	35.6	54	-18.4	Average	Horizontal
4	17385	33.4	14.4	47.8	68.2	-20.4	Peak	Horizontal
5	11590	24.4	4.9	29.3	54	-24.7	Average	Vertical
6	11590	37.2	4.9	42.1	74	-31.9	Peak	Vertical
7	17385	21.2	14.4	35.6	54	-18.4	Average	Vertical
8	17385	33.5	14.4	47.8	68.2	-20.4	Peak	Vertical

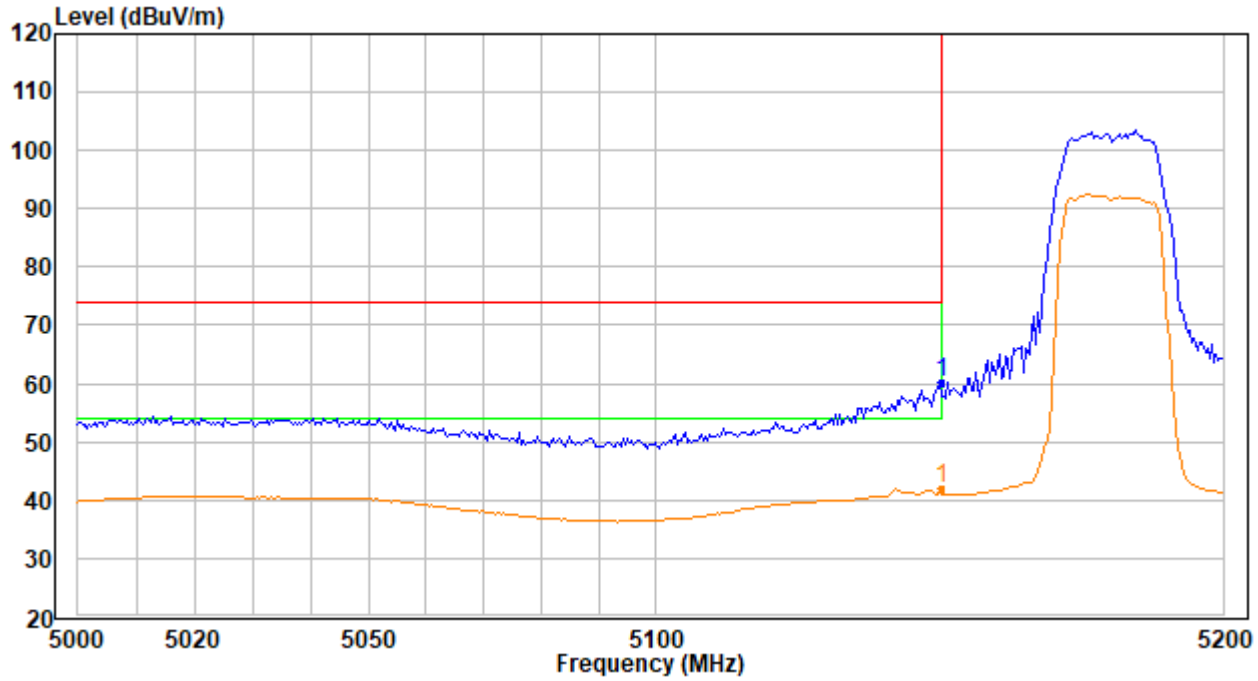
Remark:

1. Correct Factor = Antenna Factor + Cable Loss - Amplifier Gain, the value was added to Original Receiver Reading by the software automatically.
2. Result = Reading + Correct Factor.
3. Margin = Result – Limit

Band Edge Measurements (Radiated)

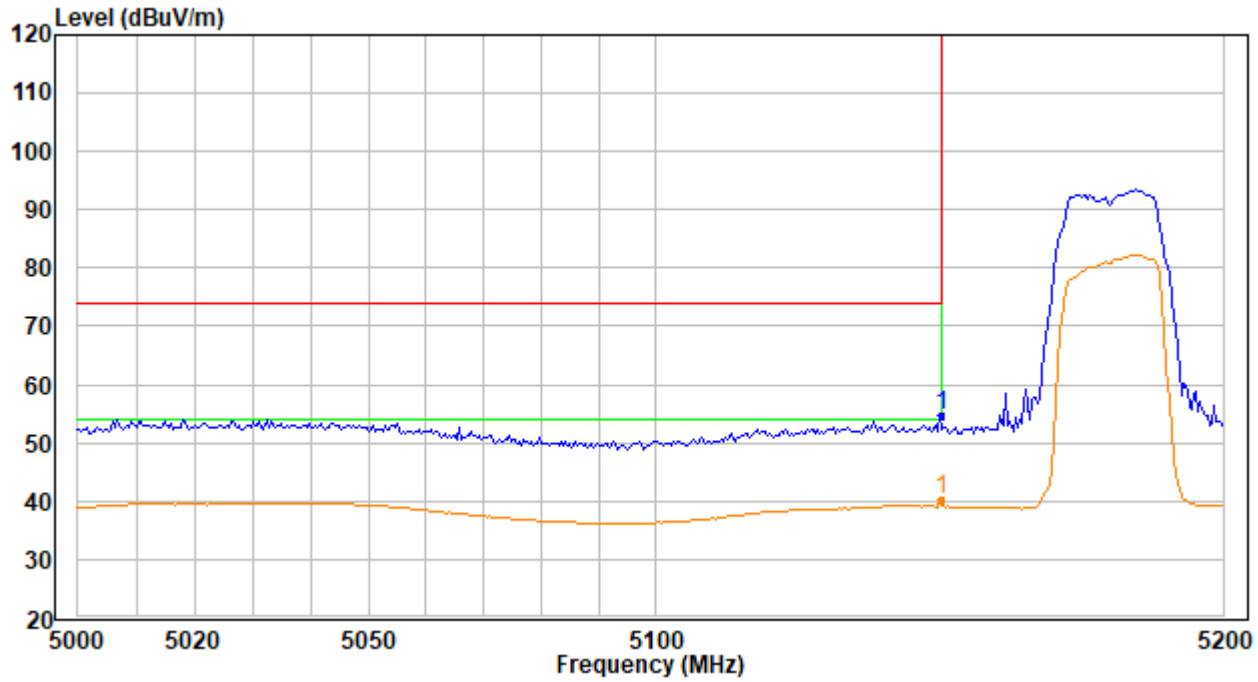
IEEE 802.11a

Test Channel:	Channel 36	Ant. Polar. :	Horizontal



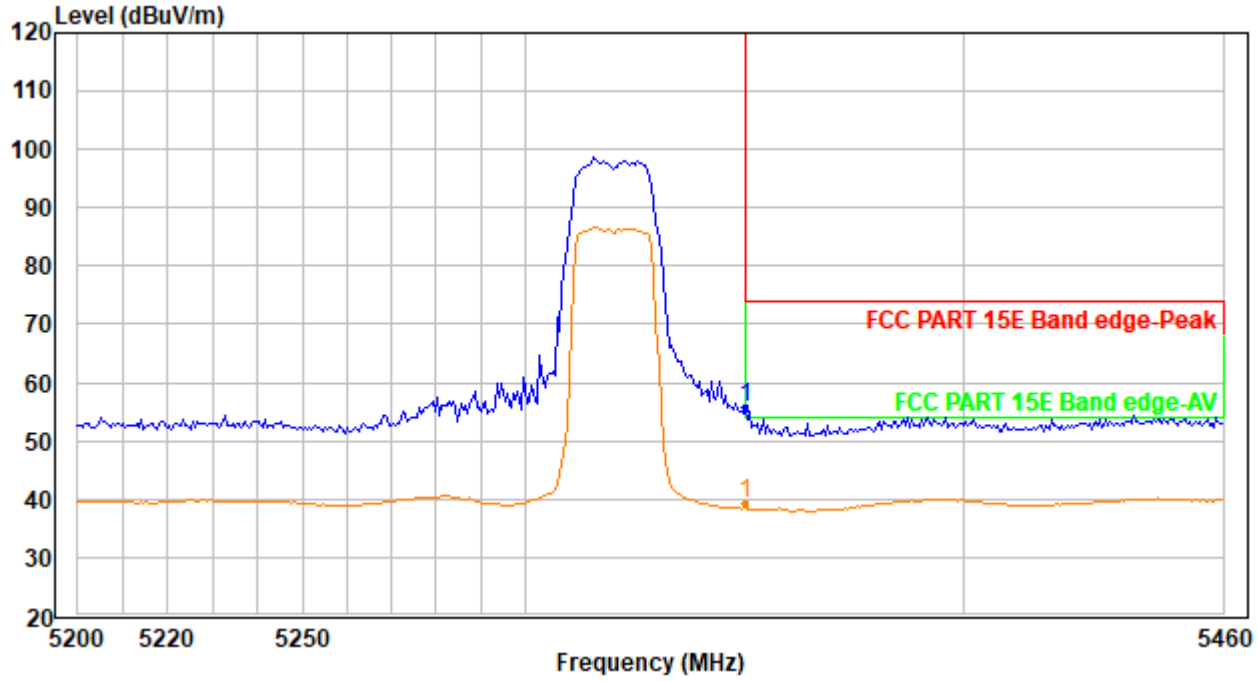
Frequency (MHz)	Peak level (dBμV/m)	Peak Limit (dBμV/m)	AV level (dBμV/m)	AV Limit (dBμV/m)	Conclusion
5150.000	60.15	74.00	41.94	54.00	Pass

Test Channel:	Channel 36	Ant. Polar. :	Vertical



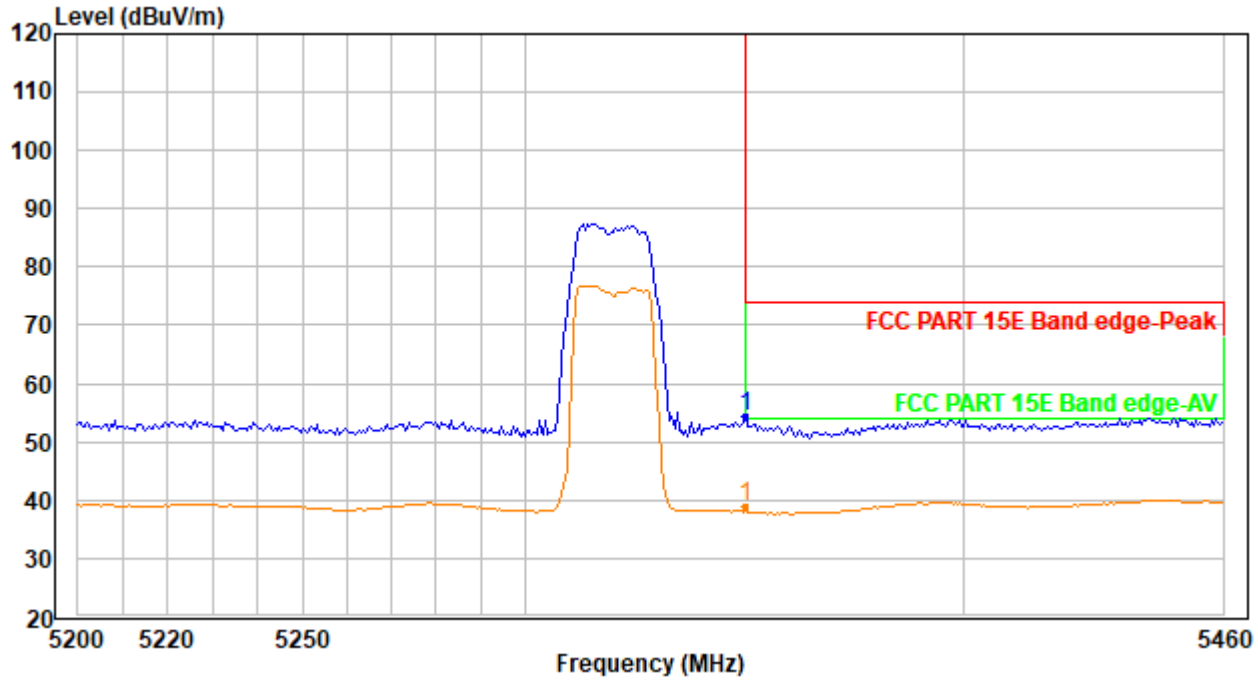
Frequency (MHz)	Peak level (dBμV/m)	Peak Limit (dBμV/m)	AV level (dBμV/m)	AV Limit (dBμV/m)	Conclusion
5150.000	54.78	74.00	40.12	54.00	Pass

Test Channel:	Channel 64	Ant. Polar. :	Horizontal



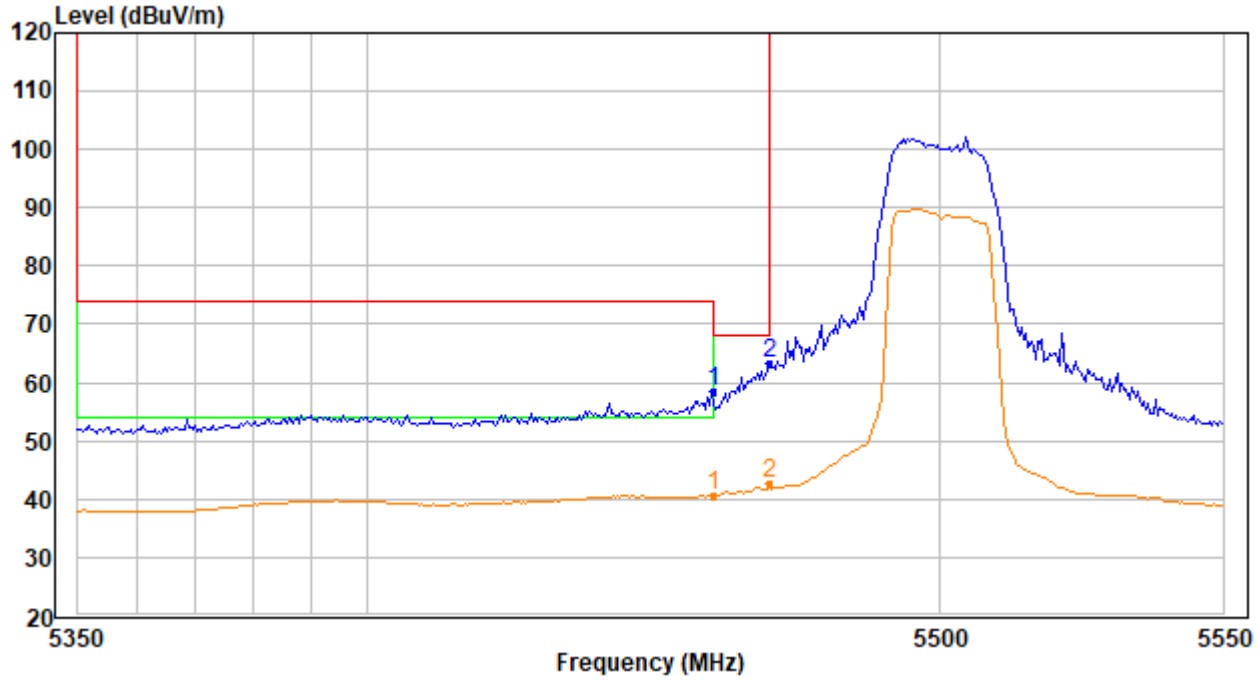
Frequency (MHz)	Peak level (dBμV/m)	Peak Limit (dBμV/m)	AV level (dBμV/m)	AV Limit (dBμV/m)	Conclusion
5350.000	55.76	74.00	39.41	54.00	Pass

Test Channel:	Channel 64	Ant. Polar. :	Vertical



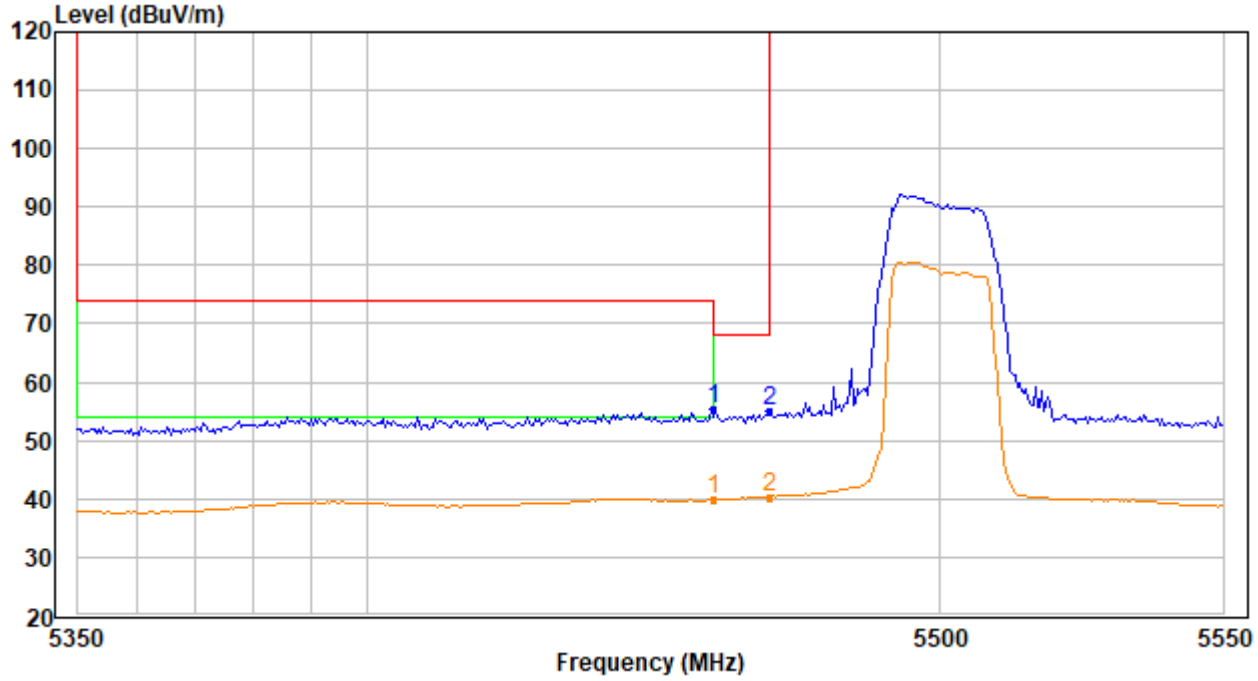
Frequency (MHz)	Peak level (dBμV/m)	Peak Limit (dBμV/m)	AV level (dBμV/m)	AV Limit (dBμV/m)	Conclusion
5350.000	54.50	74.00	38.94	54.00	Pass

Test Channel:	Channel 100	Ant. Polar. :	Horizontal



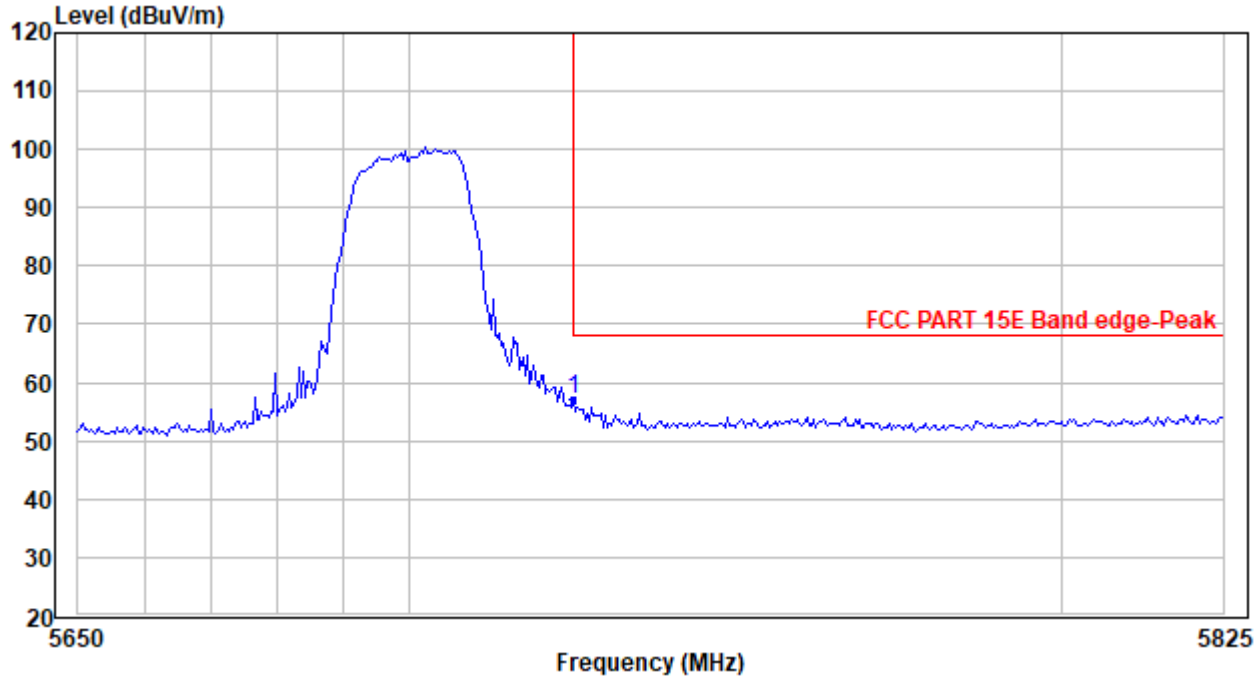
Frequency (MHz)	Peak level (dBμV/m)	Peak Limit (dBμV/m)	AV level (dBμV/m)	AV Limit (dBμV/m)	Conclusion
5460.000	58.45	68.20	40.46	54.00	Pass
5470.000	63.13	68.20	42.83	68.20	Pass

Test Channel:	Channel 100	Ant. Polar. :	Vertical



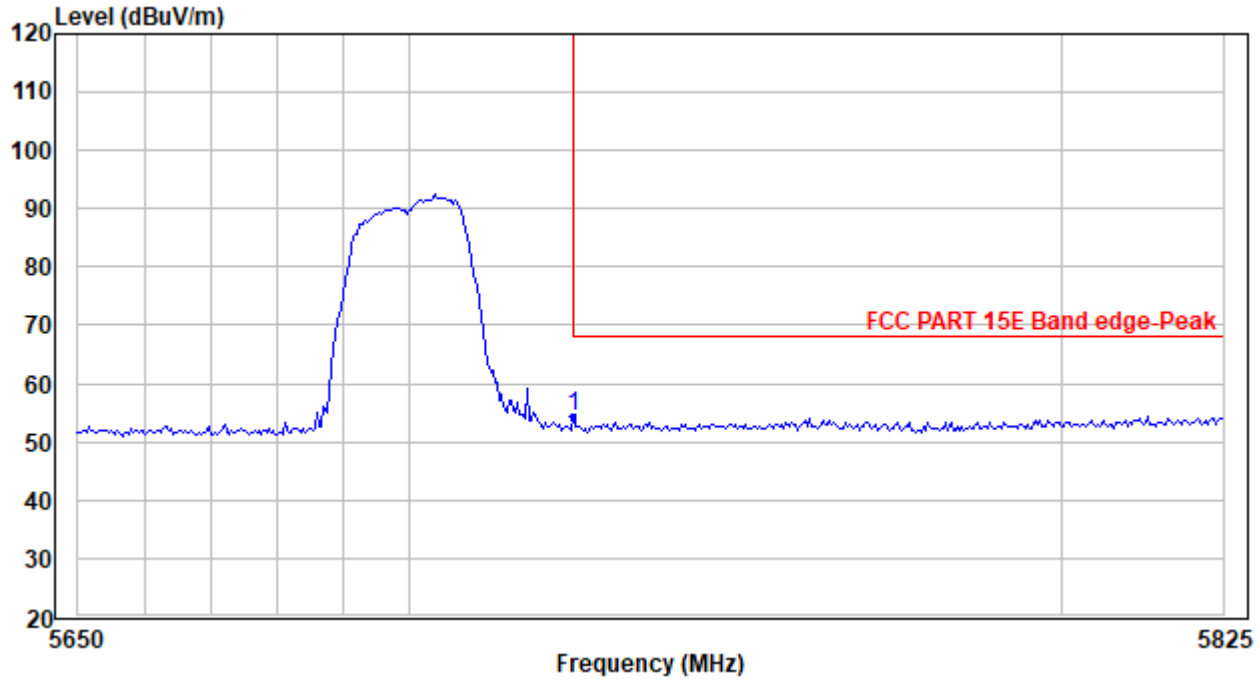
Frequency (MHz)	Peak level (dBμV/m)	Peak Limit (dBμV/m)	AV level (dBμV/m)	AV Limit (dBμV/m)	Conclusion
5460.000	55.29	68.20	39.83	54.00	Pass
5470.000	55.21	68.20	40.41	68.20	Pass

Test Channel:	Channel 140	Ant. Polar. :	Horizontal



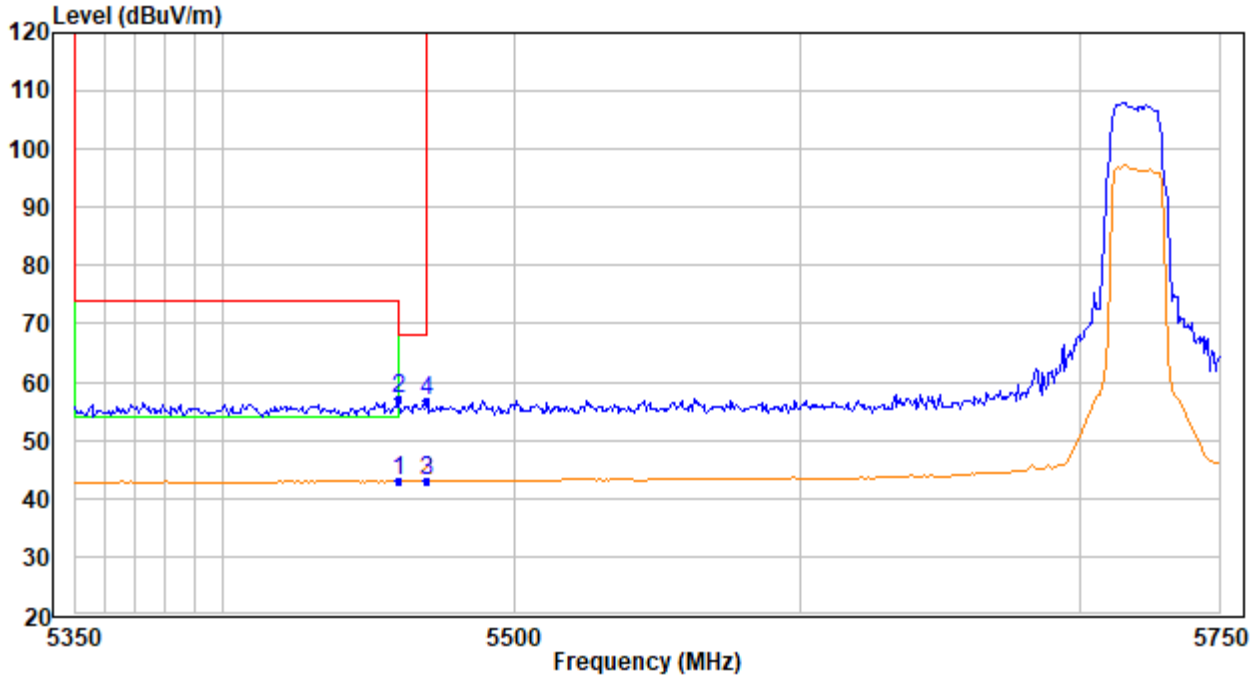
Frequency (MHz)	Peak level (dBμV/m)	Peak Limit (dBμV/m)	Conclusion
5725.000	57.19	68.20	Pass

Test Channel:	Channel 140	Ant. Polar. :	Vertical



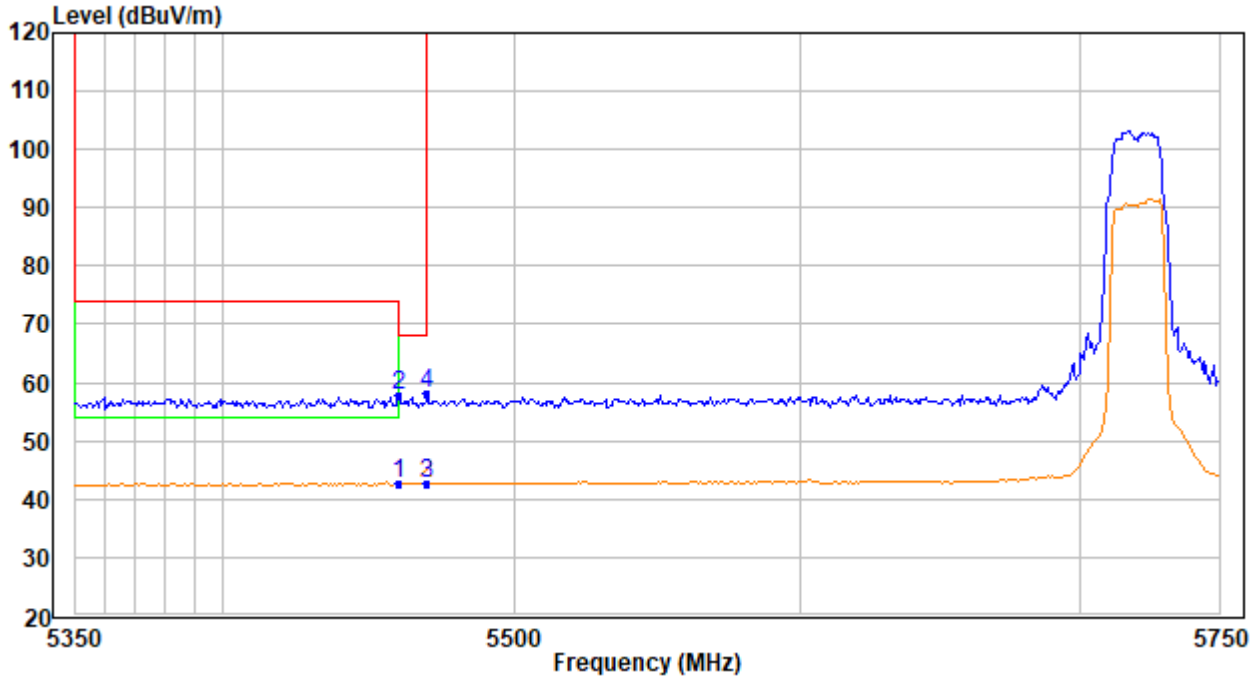
Frequency (MHz)	Peak level (dBμV/m)	Peak Limit (dBμV/m)	Conclusion
5725.000	57.19	68.20	Pass

Test Channel:	Channel 144_U-NII-2C	Ant. Polar. :	Horizontal



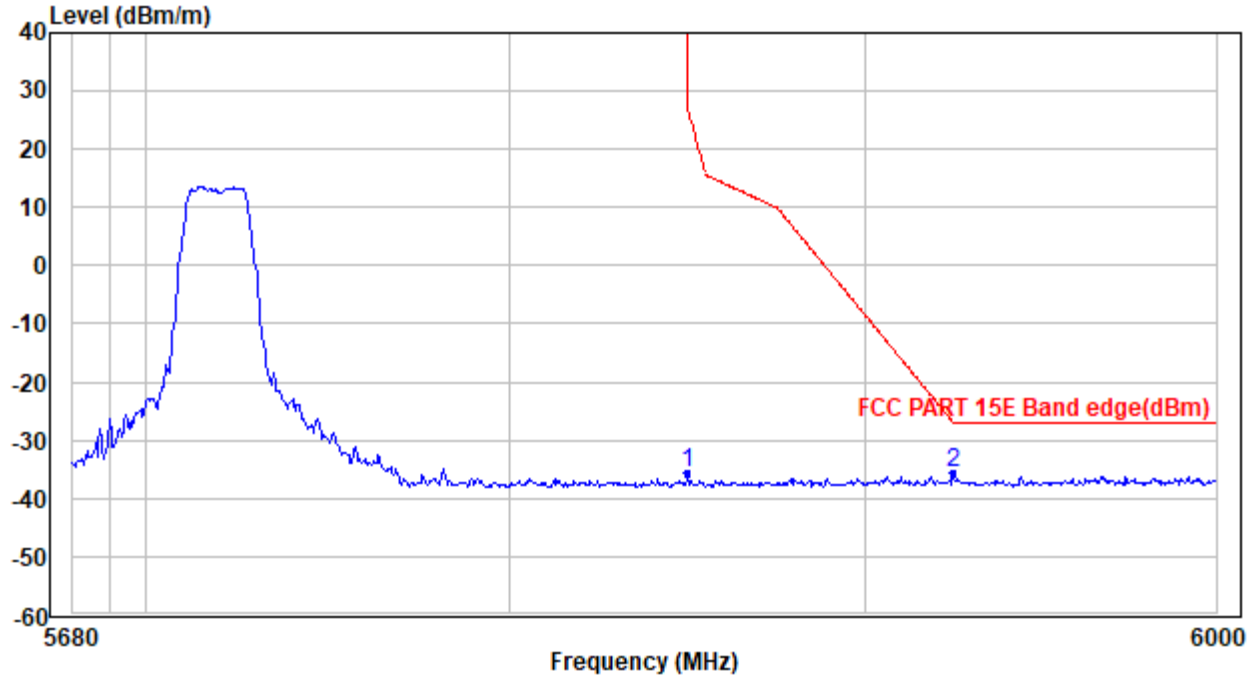
Frequency (MHz)	Peak level (dBuv/m)	Peak Limit (dBuv/m)	AV level (dBuv/m)	AV Limit (dBuv/m)	Conclusion
5460.000	57.04	68.20	42.92	54.00	PASS
5470.000	56.74	68.20	43.06	68.20	PASS

Test Channel:	Channel 144_U-NII-2C	Ant. Polar. :	Vertical



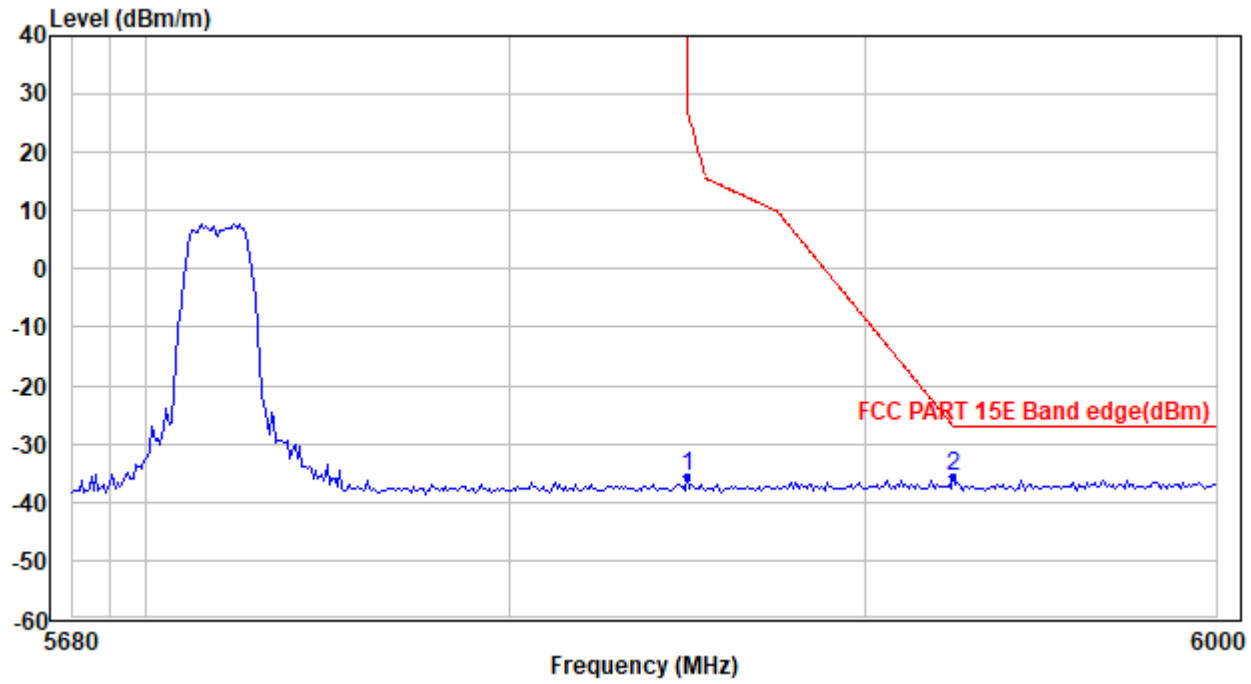
Frequency (MHz)	Peak level (dBuv/m)	Peak Limit (dBuv/m)	AV level (dBuv/m)	AV Limit (dBuv/m)	Conclusion
5460.000	57.94	68.20	42.56	54.00	PASS
5470.000	58.10	68.20	42.67	68.20	PASS

Test Channel:	Channel 144_U-NII-3	Ant. Polar. :	Horizontal



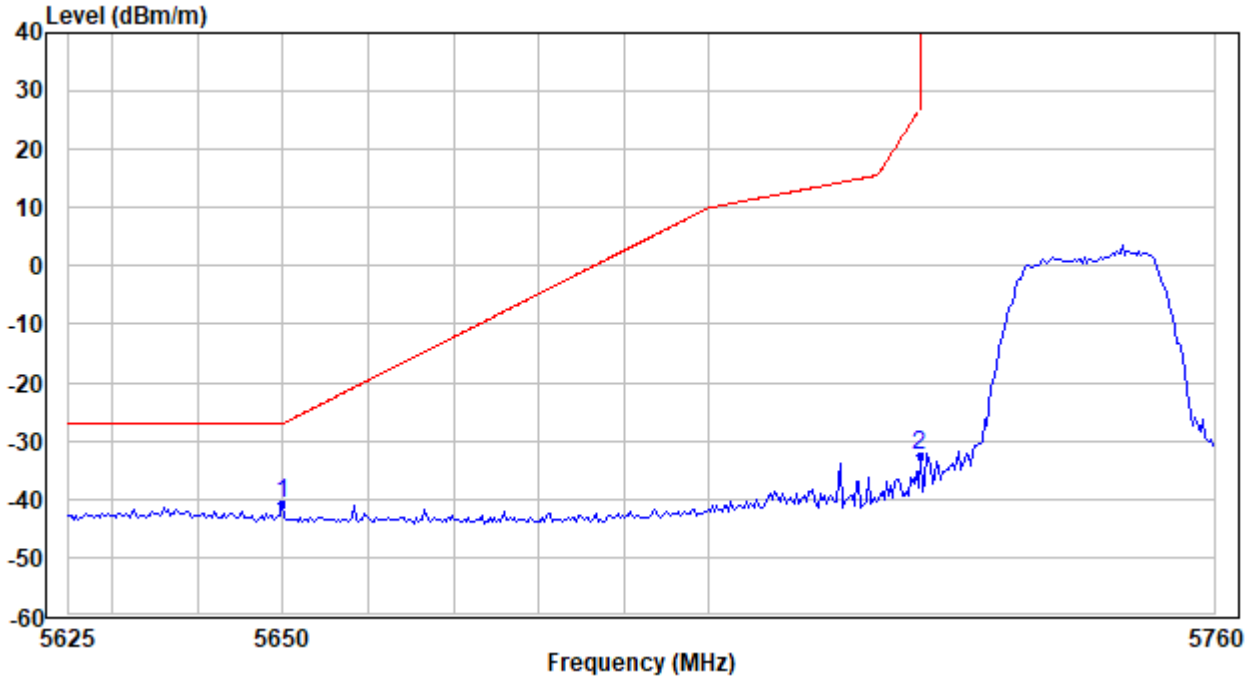
Frequency (MHz)	Peak level (dBm)	Peak Limit (dBm)	Conclusion
5850.000	-35.49	27.00	PASS
5925.000	-35.54	-27.00	PASS

Test Channel:	Channel 144_U-NII-3	Ant. Polar. :	Vertical



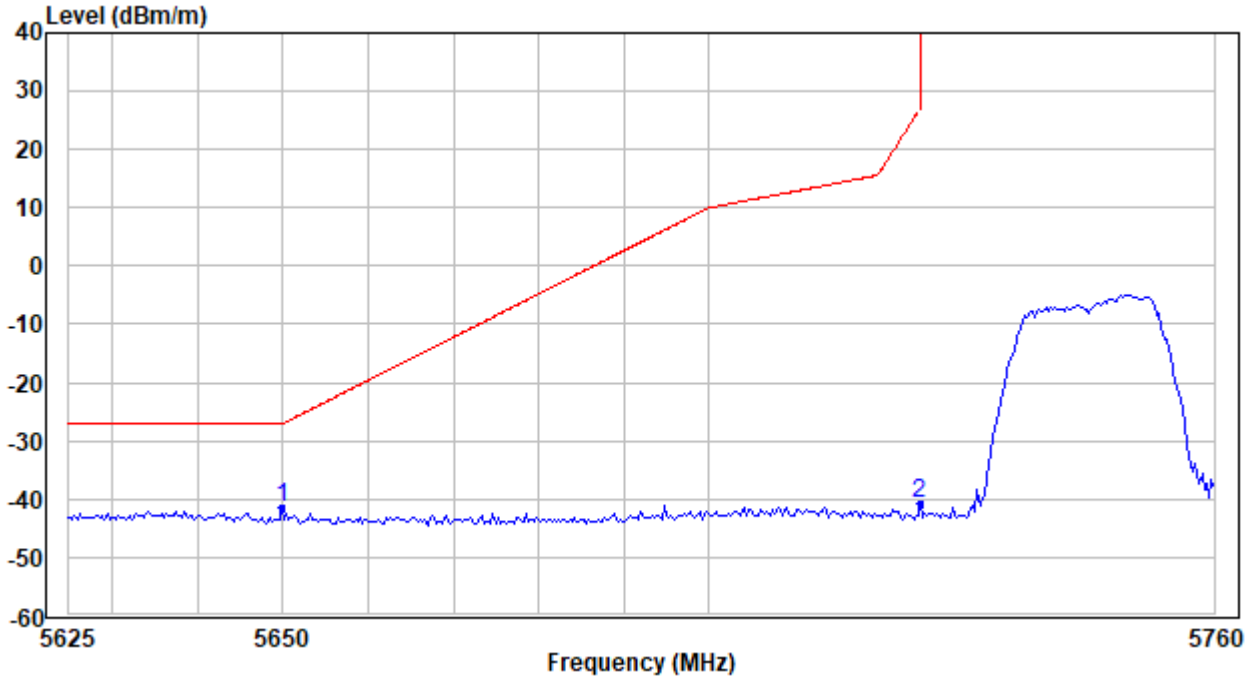
Frequency (MHz)	Peak level (dBm)	Peak Limit (dBm)	Conclusion
5850.000	-35.49	27.00	PASS
5925.000	-35.54	-27.00	PASS

Test Channel:	Channel 149	Ant. Polar. :	Horizontal



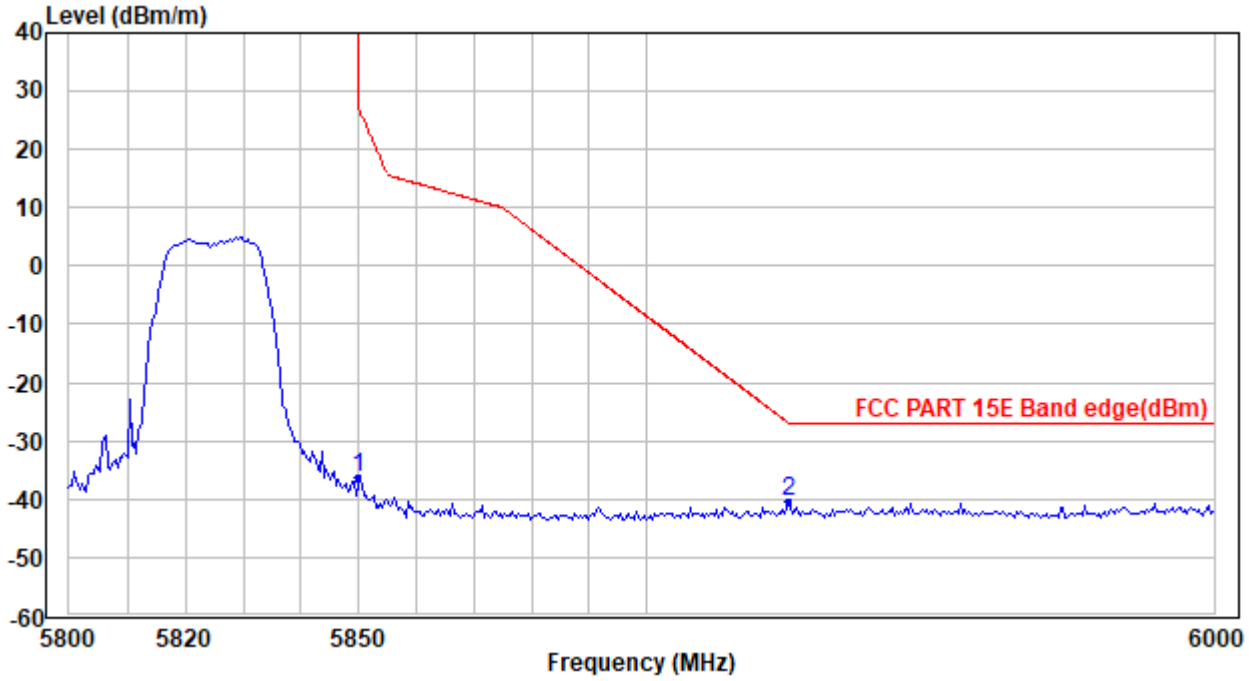
Frequency (MHz)	Peak level (dBm)	Peak Limit (dBm)	Conclusion
5650.000	-40.82	-27.00	Pass
5725.000	-32.63	27.00	Pass

Test Channel:	Channel 149	Ant. Polar. :	Vertical



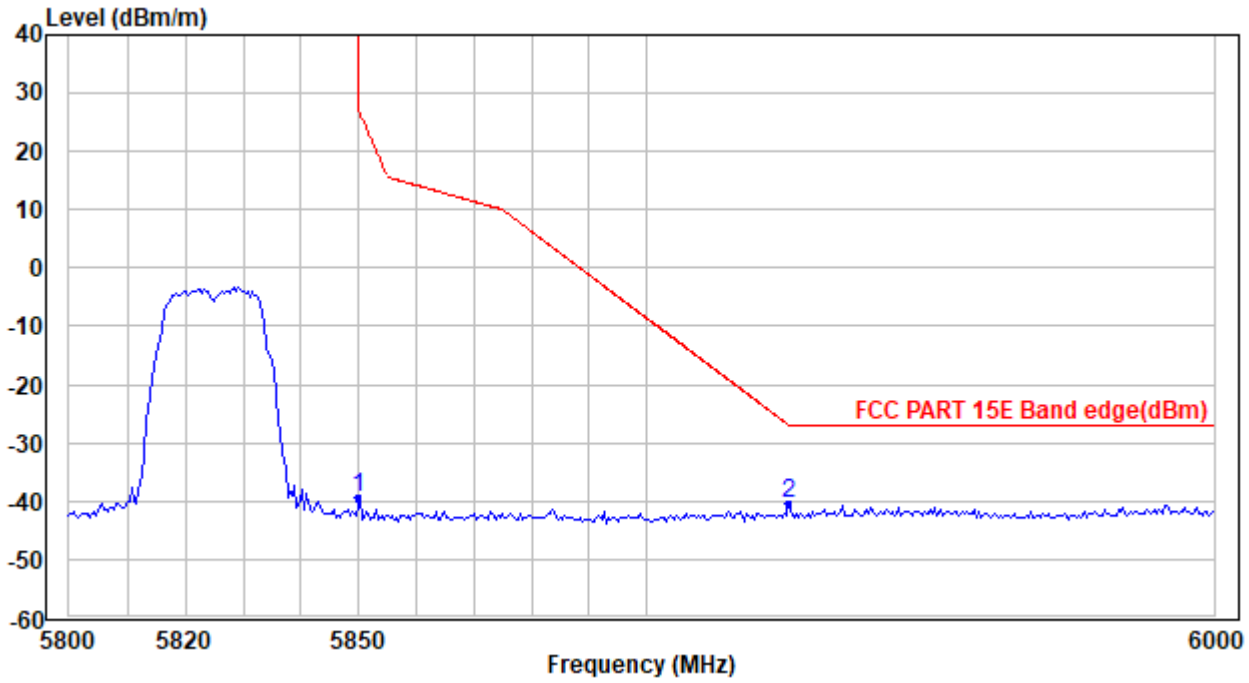
Frequency (MHz)	Peak level (dBm)	Peak Limit (dBm)	Conclusion
5650.000	-41.51	-27.00	Pass
5725.000	-40.89	27.00	Pass

Test Channel:	Channel 165	Ant. Polar. :	Horizontal



Frequency (MHz)	Peak level (dBm)	Peak Limit (dBm)	Conclusion
5850.000	-36.15	27.00	Pass
5925.000	-40.33	-27.00	Pass

Test Channel:	Channel 165	Ant. Polar. :	Vertical



Frequency (MHz)	Peak level (dBm)	Peak Limit (dBm)	Conclusion
5850.000	-39.24	27.00	Pass
5925.000	-40.52	-27.00	Pass

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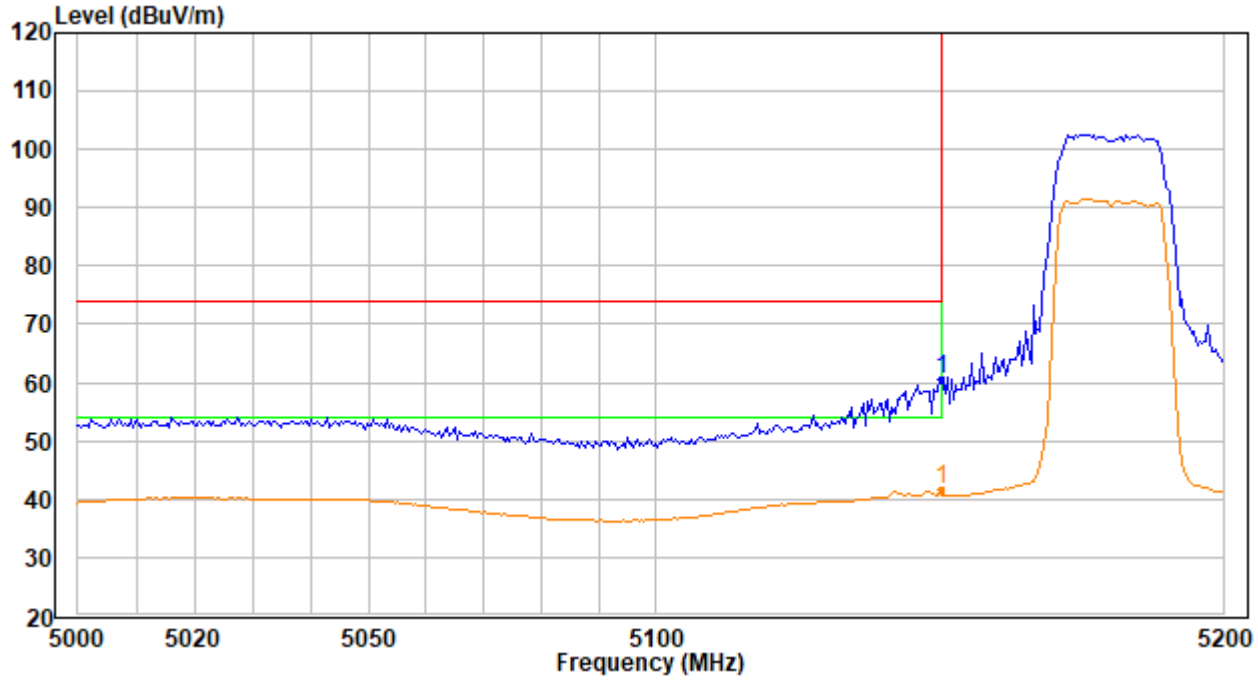
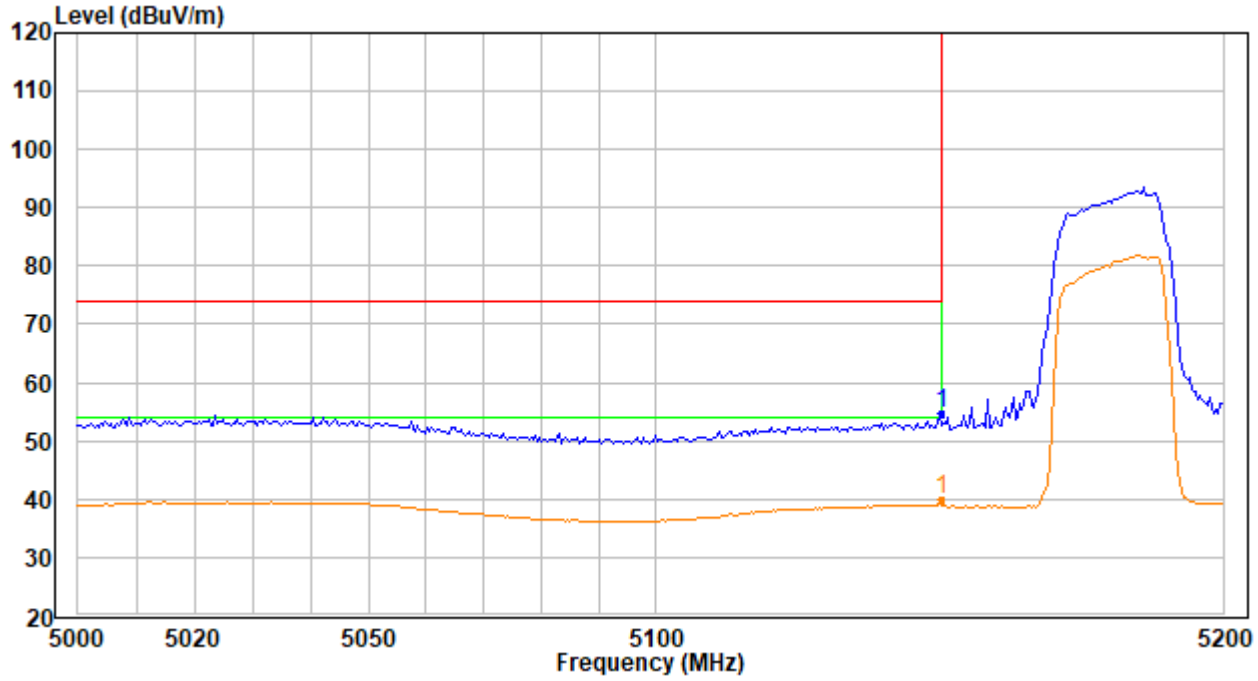
Test Channel:	Channel 36	Ant. Polar. :	Horizontal



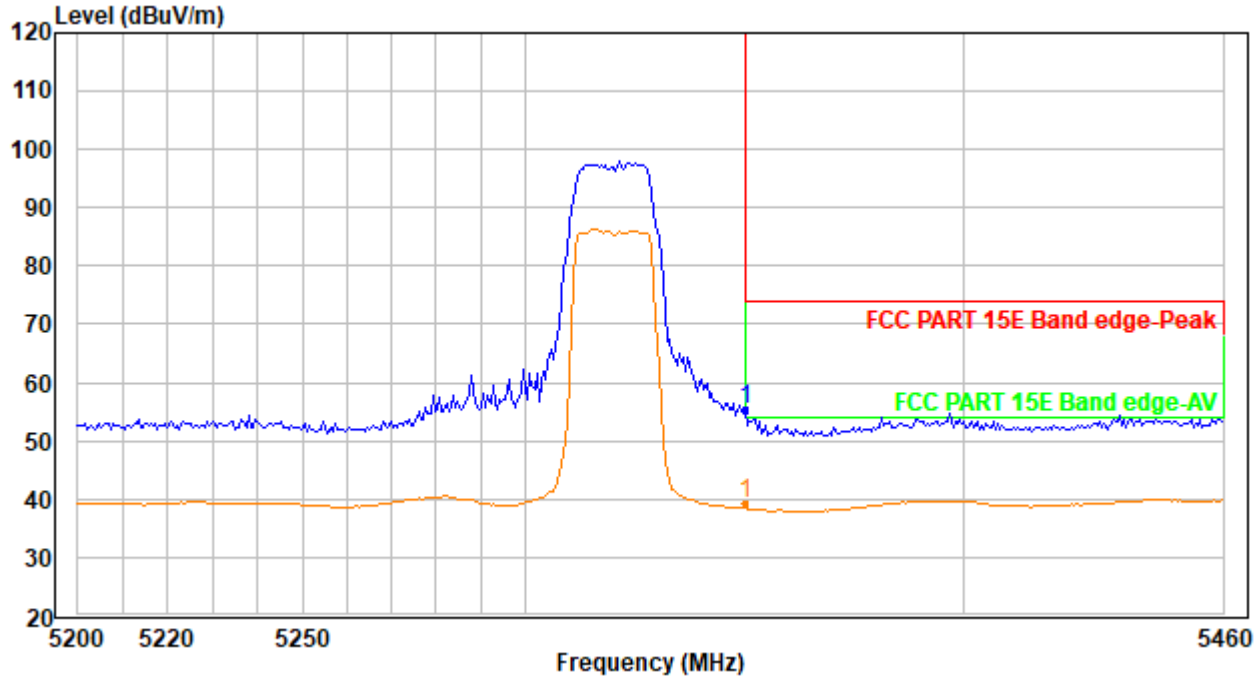
Frequency (MHz)	Peak level (dBμV/m)	Peak Limit (dBμV/m)	AV level (dBμV/m)	AV Limit (dBμV/m)	Conclusion
5150.000	60.49	74.00	41.61	54.00	Pass

Test Channel:	Channel 36	Ant. Polar. :	Vertical



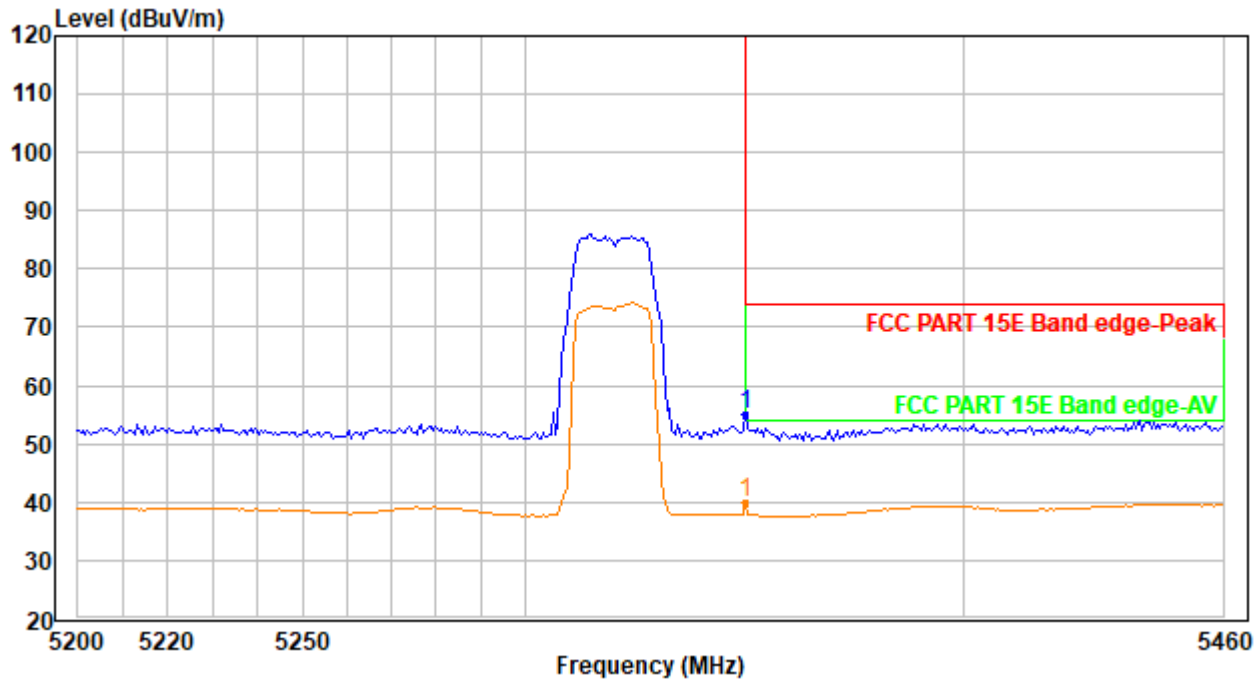
Frequency (MHz)	Peak level (dBμV/m)	Peak Limit (dBμV/m)	AV level (dBμV/m)	AV Limit (dBμV/m)	Conclusion
5150.000	54.88	74.00	39.80	54.00	Pass

Test Channel:	Channel 64	Ant. Polar. :	Horizontal



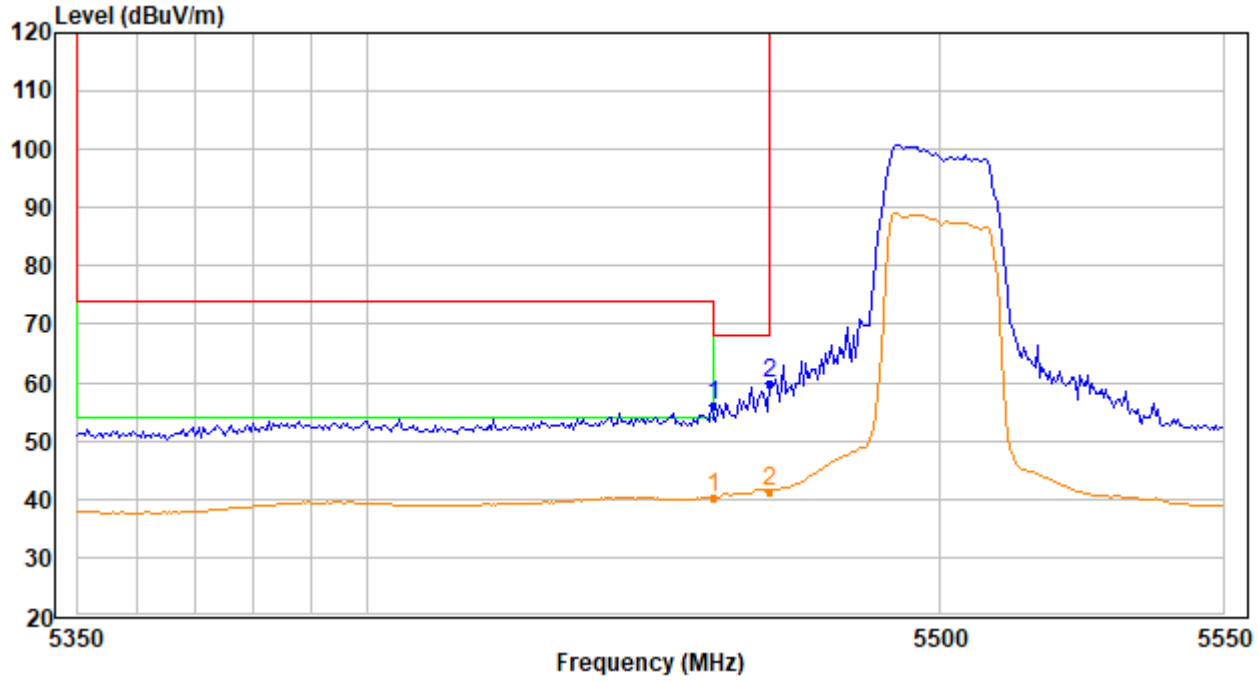
Frequency (MHz)	Peak level (dBμV/m)	Peak Limit (dBμV/m)	AV level (dBμV/m)	AV Limit (dBμV/m)	Conclusion
5350.000	55.29	74.00	39.30	54.00	Pass

Test Channel:	Channel 64	Ant. Polar. :	Vertical



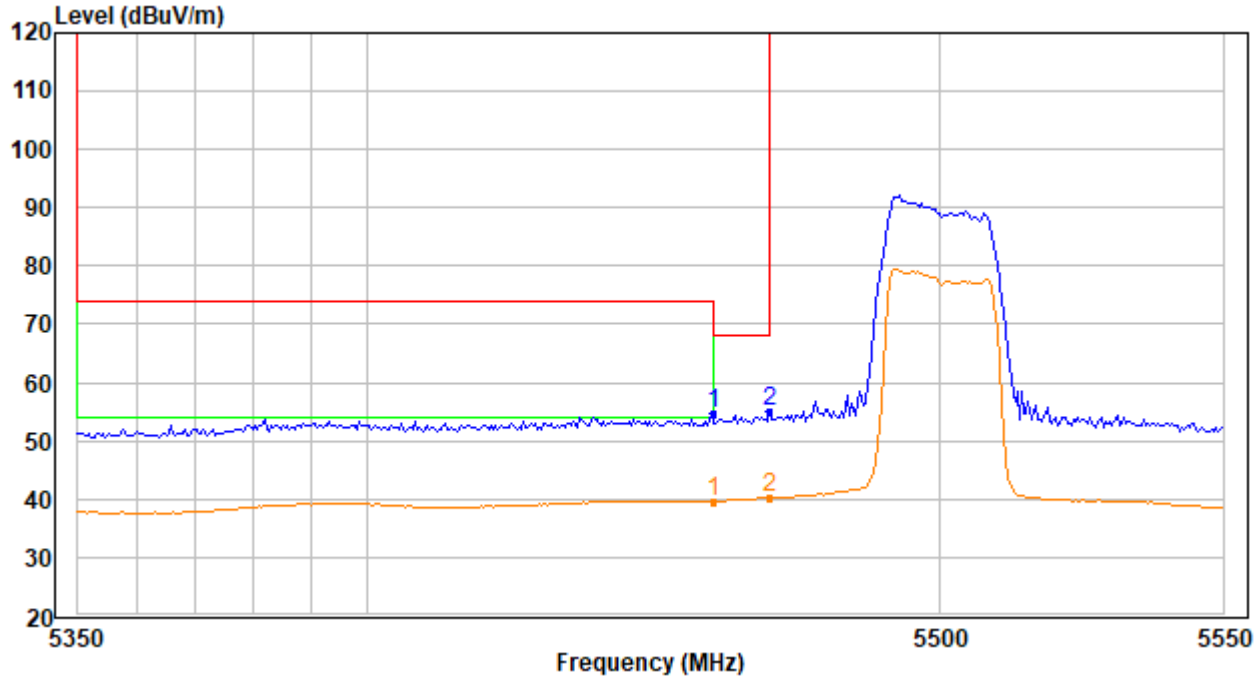
Frequency (MHz)	Peak level (dBμV/m)	Peak Limit (dBμV/m)	AV level (dBμV/m)	AV Limit (dBμV/m)	Conclusion
5350.000	55.06	74.00	39.81	54.00	Pass

Test Channel:	Channel 100	Ant. Polar. :	Horizontal



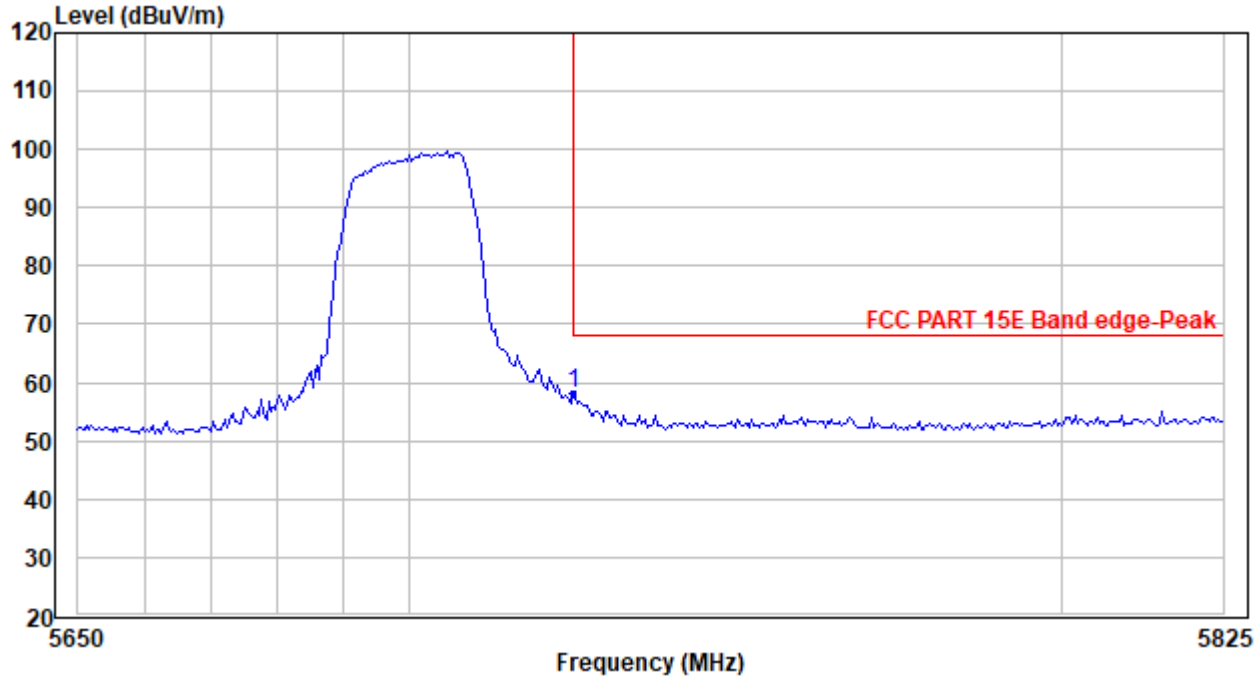
Frequency (MHz)	Peak level (dBμV/m)	Peak Limit (dBμV/m)	AV level (dBμV/m)	AV Limit (dBμV/m)	Conclusion
5460.000	56.15	68.20	40.22	54.00	Pass
5470.000	59.83	68.20	41.46	68.20	Pass

Test Channel:	Channel 100	Ant. Polar. :	Vertical



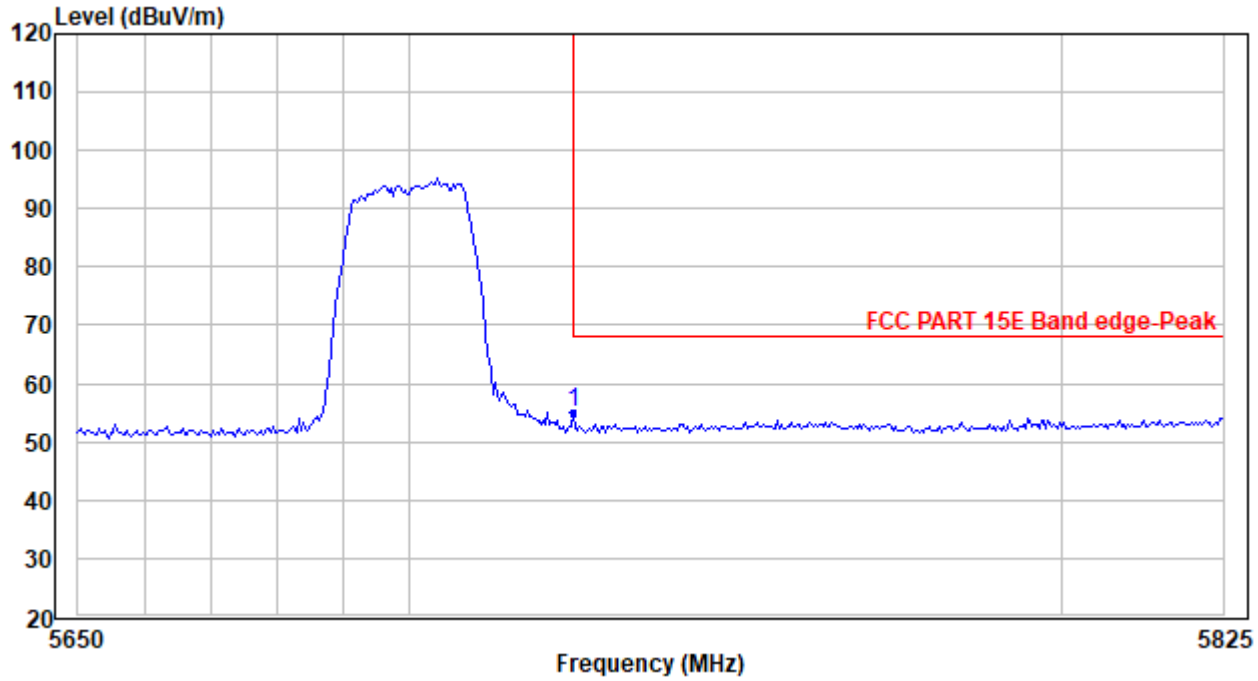
Frequency (MHz)	Peak level (dBμV/m)	Peak Limit (dBμV/m)	AV level (dBμV/m)	AV Limit (dBμV/m)	Conclusion
5460.000	54.61	68.20	39.56	54.00	Pass
5470.000	54.92	68.20	40.20	68.20	Pass

Test Channel:	Channel 140	Ant. Polar. :	Horizontal



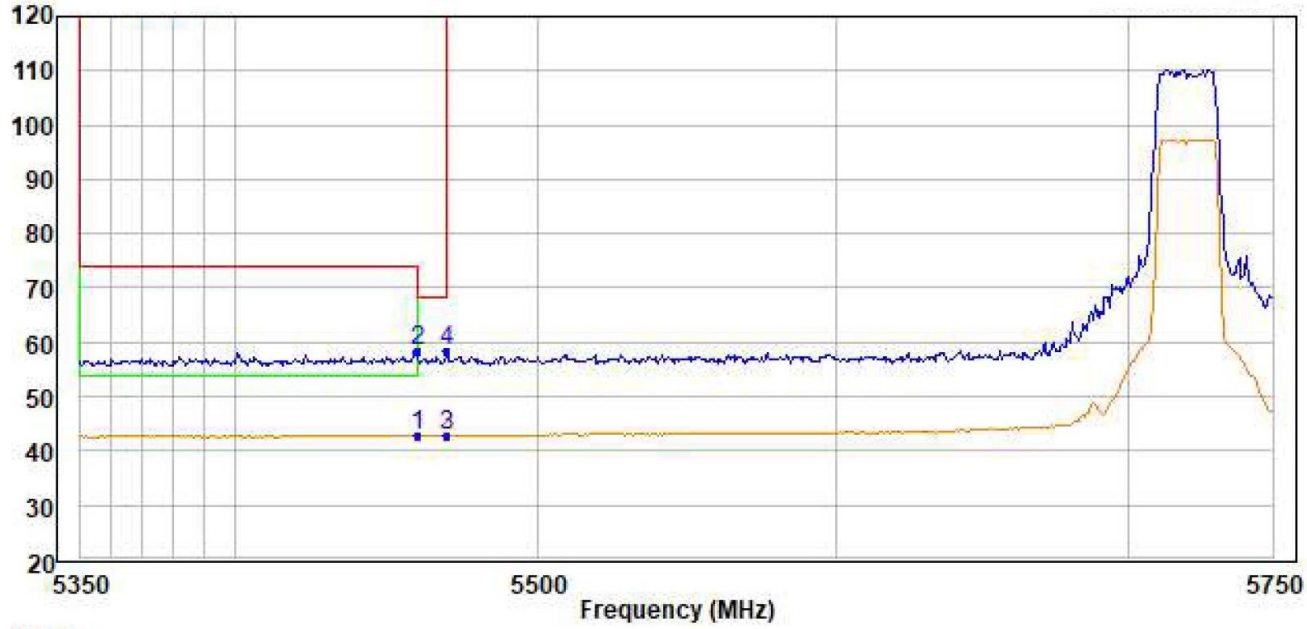
Frequency (MHz)	Peak level (dBμV/m)	Peak Limit (dBμV/m)	Conclusion
5725.000	58.21	68.20	Pass

Test Channel:	Channel 140	Ant. Polar. :	Vertical



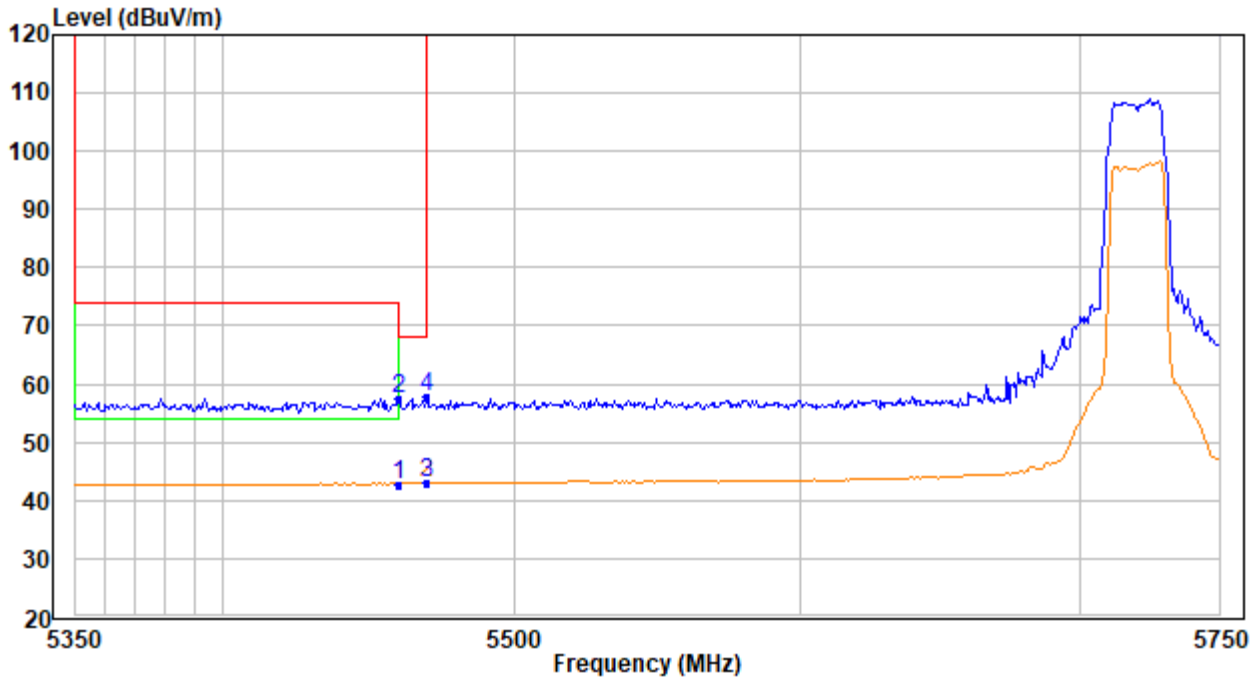
Frequency (MHz)	Peak level (dBμV/m)	Peak Limit (dBμV/m)	Conclusion
5725.000	54.91	68.20	Pass

Test Channel:	Channel 144_U-NII-2C	Ant. Polar. :	Horizontal



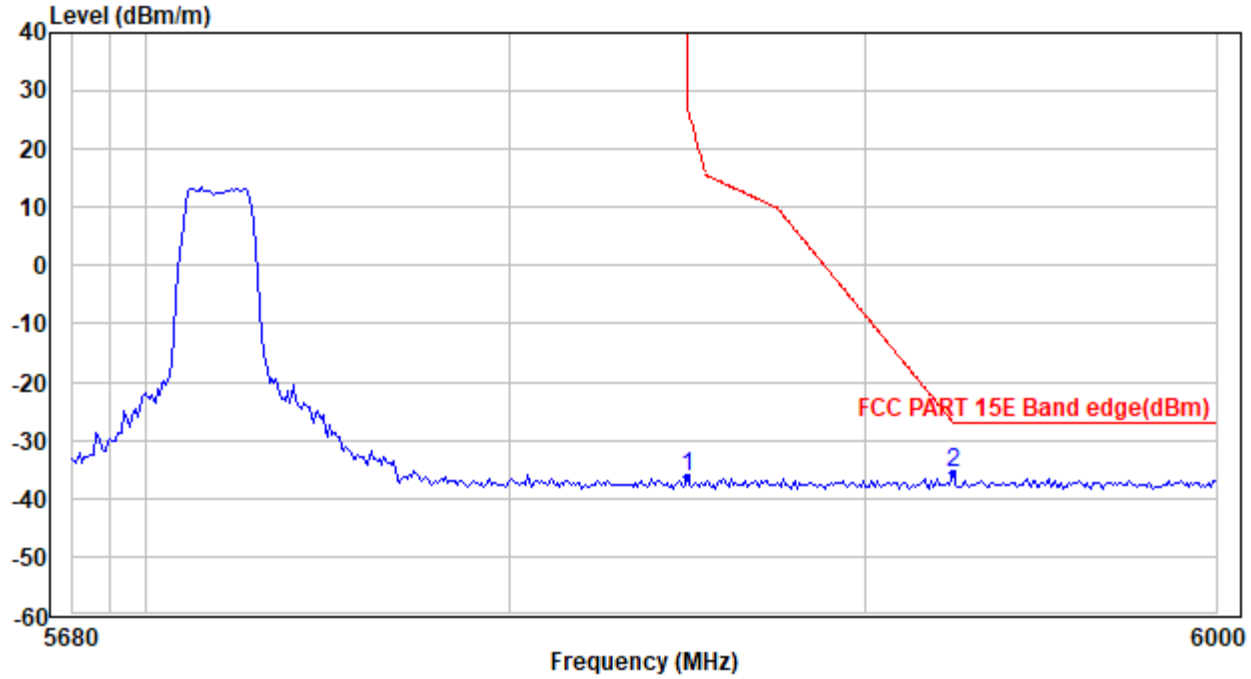
Frequency (MHz)	Peak level (dBuv/m)	Peak Limit (dBuv/m)	AV level (dBuv/m)	AV Limit (dBuv/m)	Conclusion
5460.000	58.24	68.20	42.85	54.00	PASS
5470.000	58.45	68.20	42.86	68.20	PASS

Test Channel:	Channel 144_U-NII-2C	Ant. Polar. :	Vertical



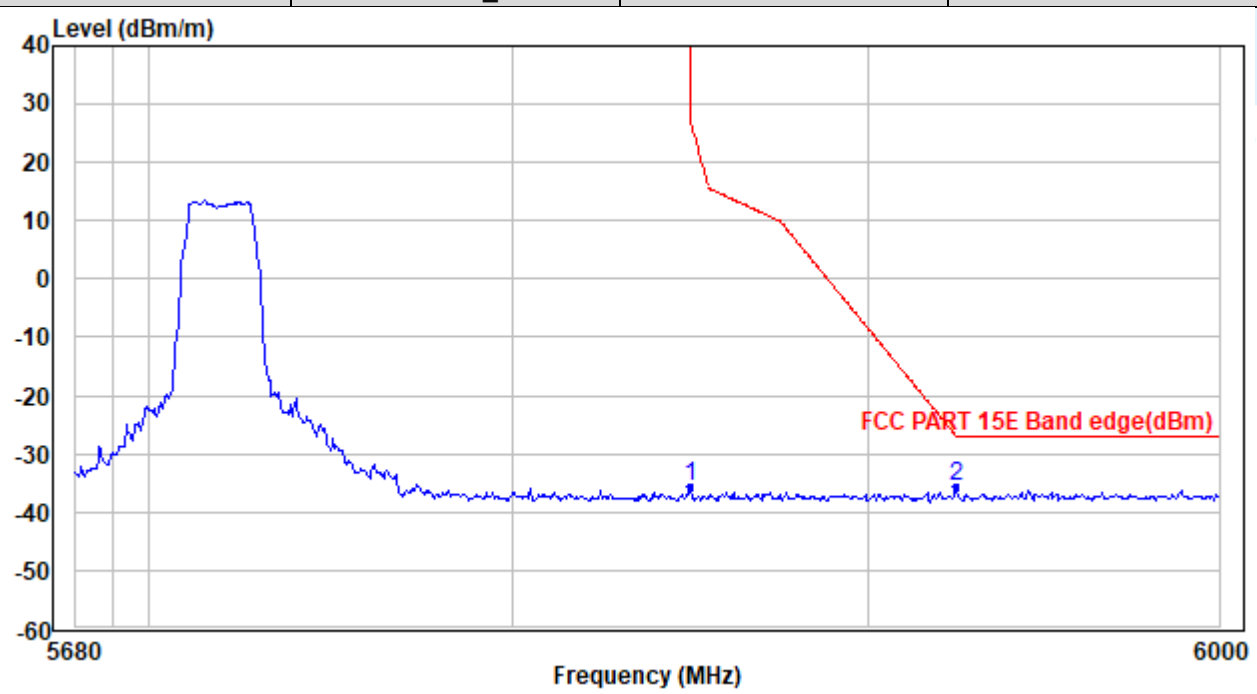
Frequency (MHz)	Peak level (dBuv/m)	Peak Limit (dBuv/m)	AV level (dBuv/m)	AV Limit (dBuv/m)	Conclusion
5460.000	57.34	68.20	42.81	54.00	PASS
5470.000	57.77	68.20	42.95	68.20	PASS

Test Channel:	Channel 144_U-NII-3	Ant. Polar. :	Horizontal



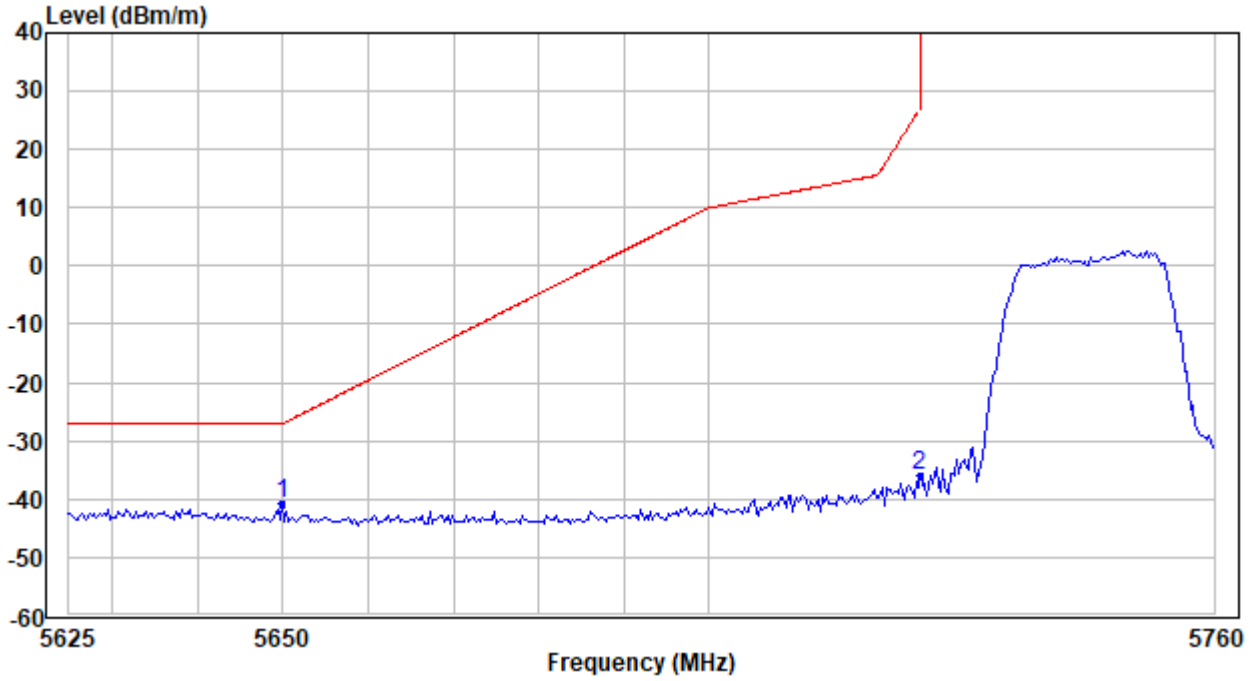
Frequency (MHz)	Peak level (dBm)	Peak Limit (dBm)	Conclusion
5850.000	-36.23	27.00	PASS
5925.000	-35.69	-27.00	PASS

Test Channel:	Channel 144_U-NII-3	Ant. Polar. :	Vertical



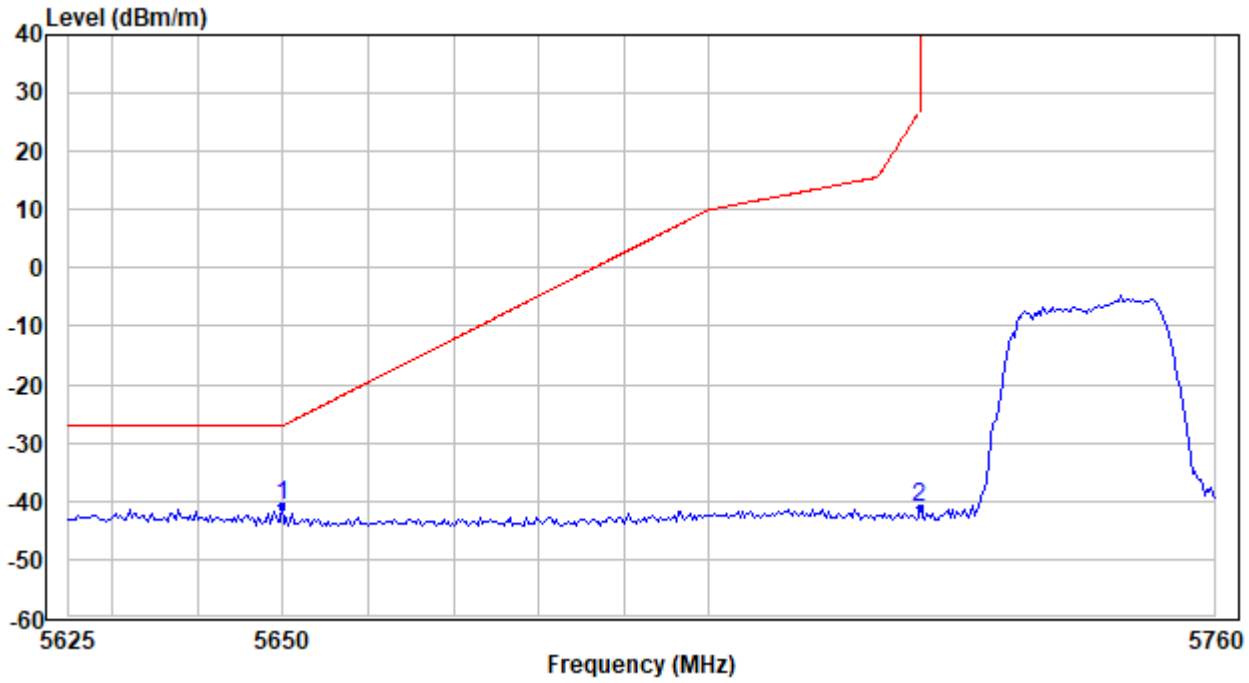
Frequency (MHz)	Peak level (dBm)	Peak Limit (dBm)	Conclusion
5850.000	-35.76	27.00	PASS
5925.000	-35.69	-27.00	PASS

Test Channel:	Channel 149	Ant. Polar. :	Horizontal



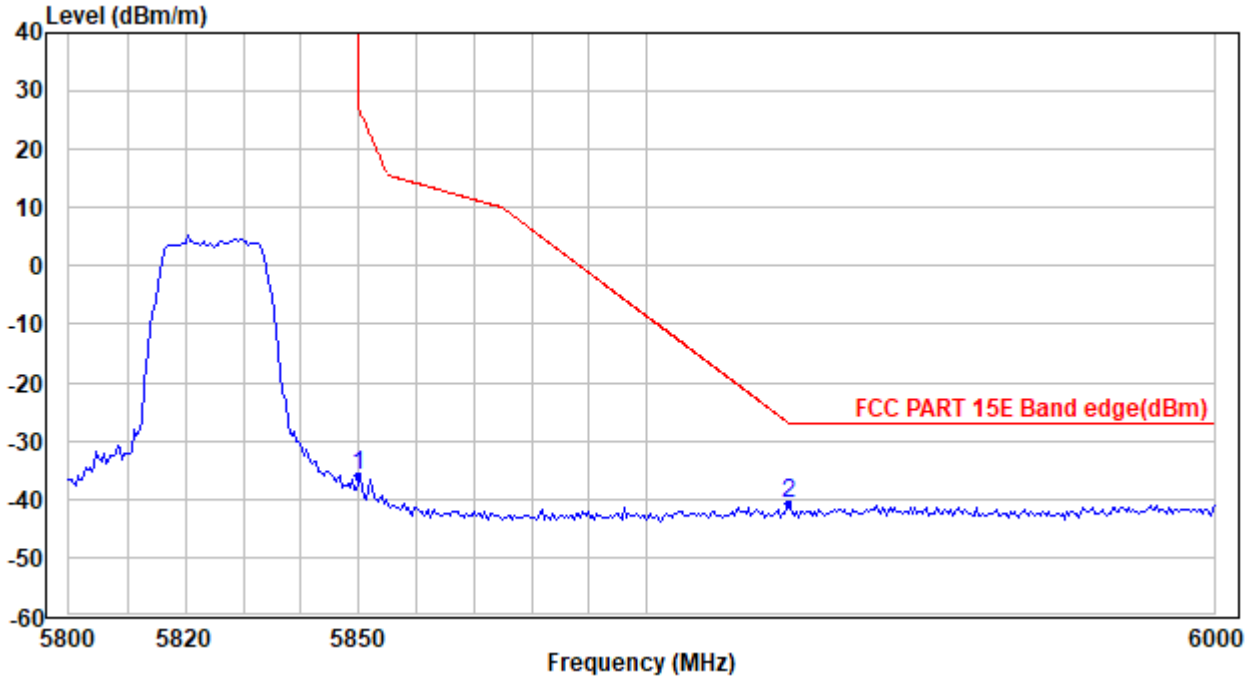
Frequency (MHz)	Peak level (dBm)	Peak Limit (dBm)	Conclusion
5650.000	-40.64	-27.00	Pass
5725.000	-36.08	27.00	Pass

Test Channel:	Channel 149	Ant. Polar. :	Vertical



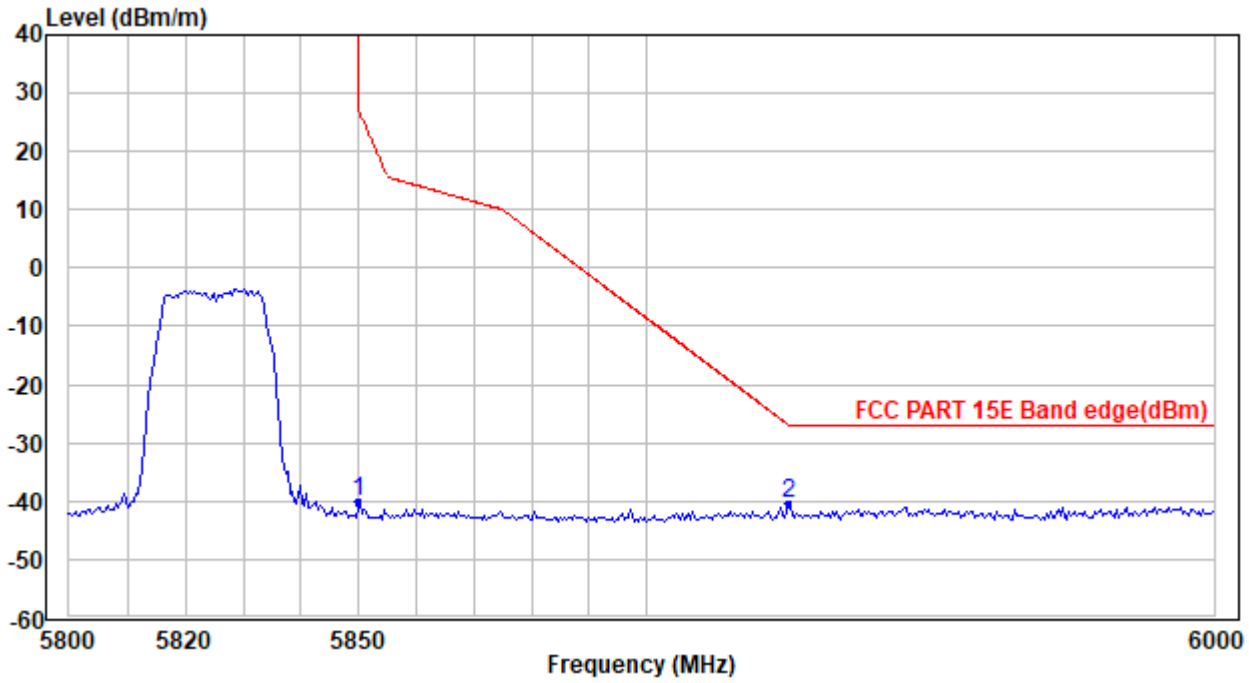
Frequency (MHz)	Peak level (dBm)	Peak Limit (dBm)	Conclusion
5650.000	-40.64	-27.00	Pass
5725.000	-41.16	27.00	Pass

Test Channel:	Channel 165	Ant. Polar. :	Horizontal



Frequency (MHz)	Peak level (dBm)	Peak Limit (dBm)	Conclusion
5850.000	-36.02	27.00	Pass
5925.000	-40.31	-27.00	Pass

Test Channel:	Channel 165	Ant. Polar. :	Vertical



Frequency (MHz)	Peak level (dBm)	Peak Limit (dBm)	Conclusion
5850.000	-40.10	27.00	Pass
5925.000	-40.31	-27.00	Pass

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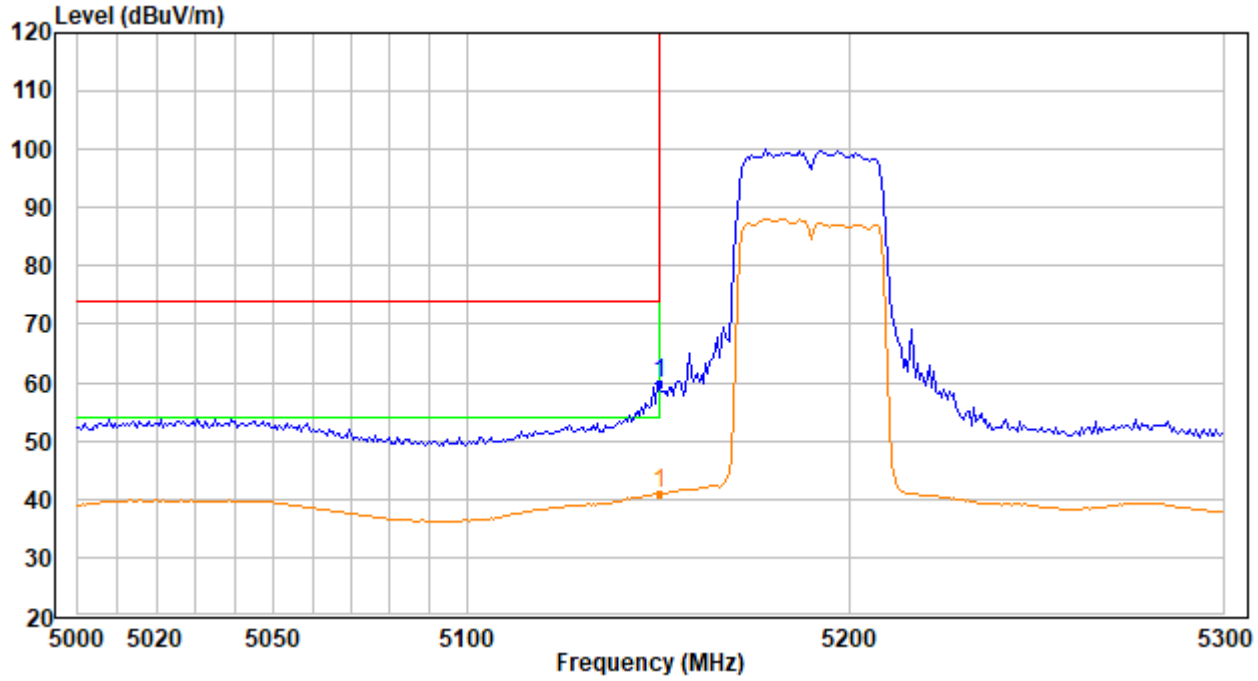
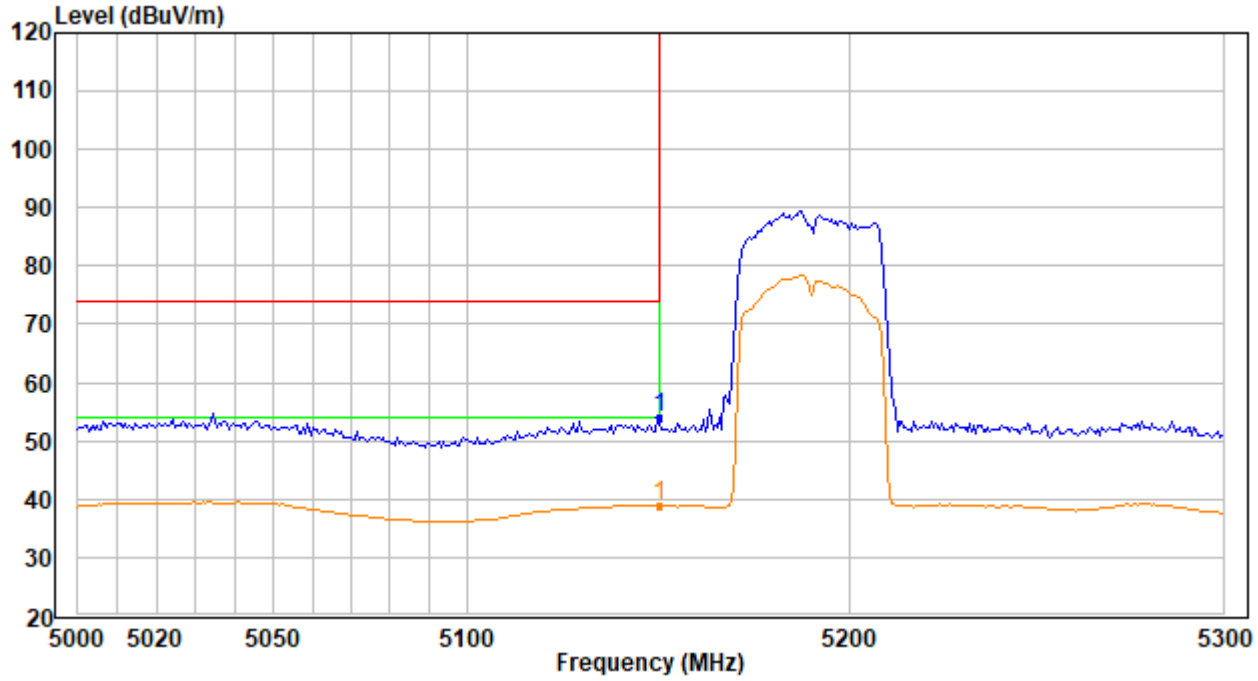
Test Channel:	Channel 38	Ant. Polar. :	Horizontal



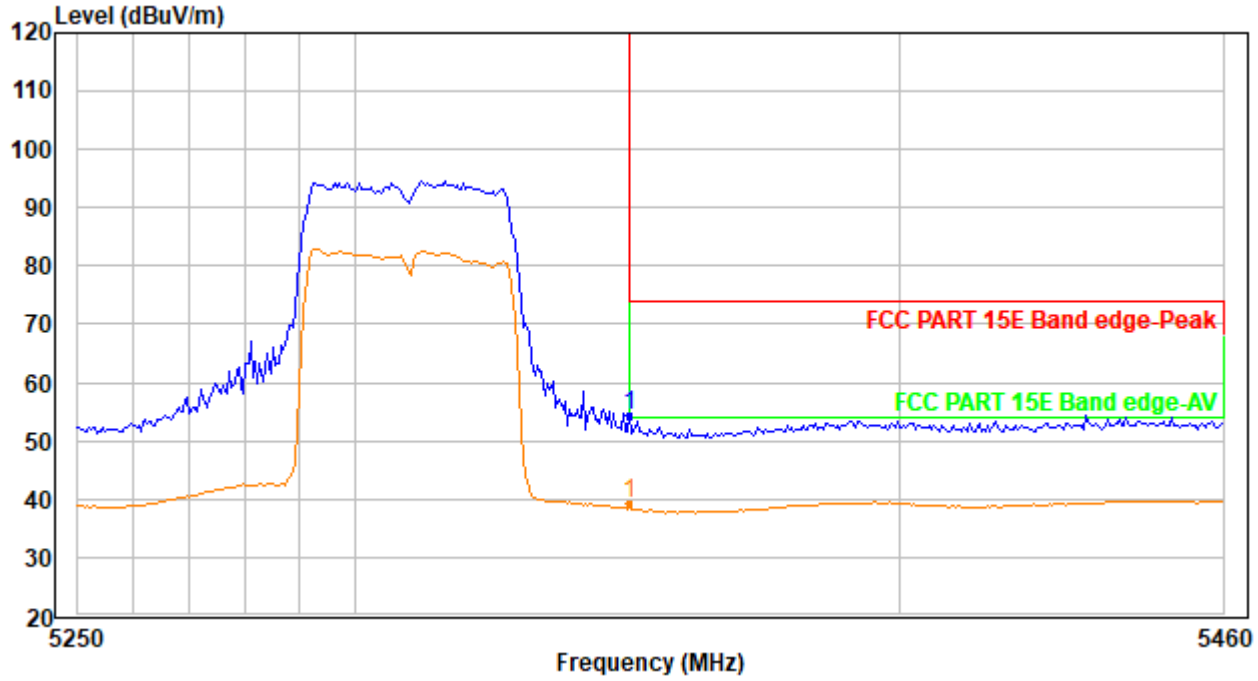
Frequency (MHz)	Peak level (dBμV/m)	Peak Limit (dBμV/m)	AV level (dBμV/m)	AV Limit (dBμV/m)	Conclusion
5150.000	59.89	74.00	40.83	54.00	Pass

Test Channel:	Channel 38	Ant. Polar. :	Vertical



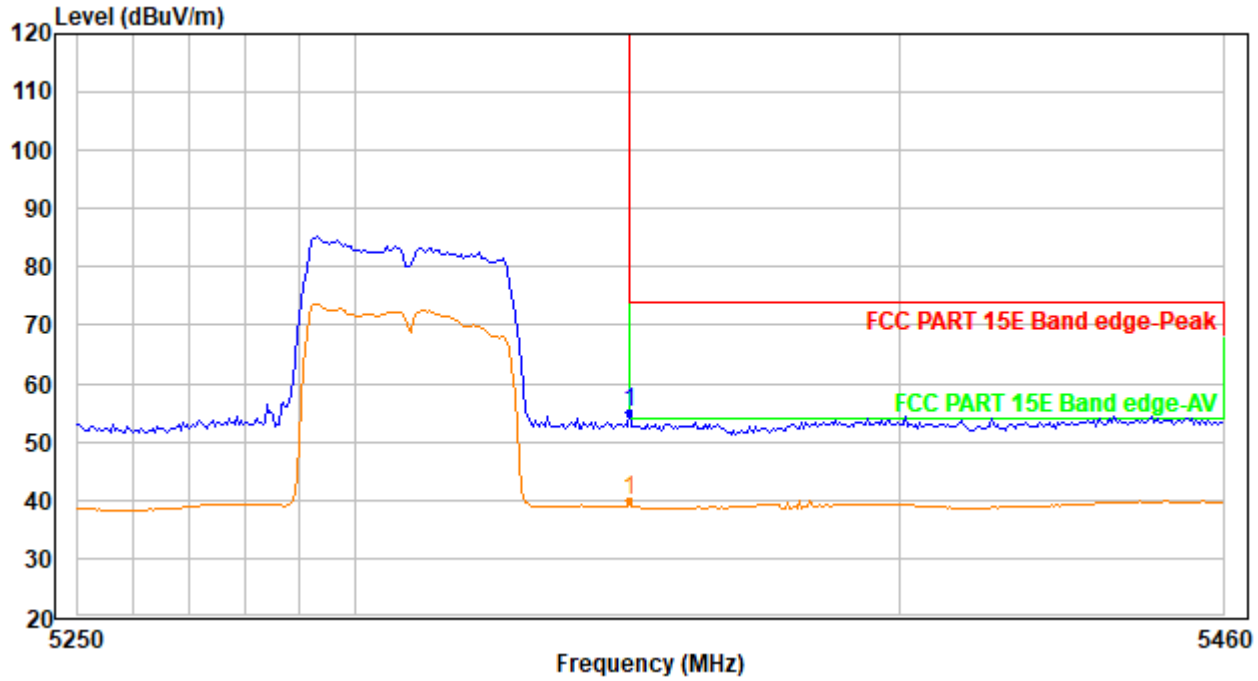
Frequency (MHz)	Peak level (dBμV/m)	Peak Limit (dBμV/m)	AV level (dBμV/m)	AV Limit (dBμV/m)	Conclusion
5150.000	54.04	74.00	38.93	54.00	Pass

Test Channel:	Channel 62	Ant. Polar. :	Horizontal



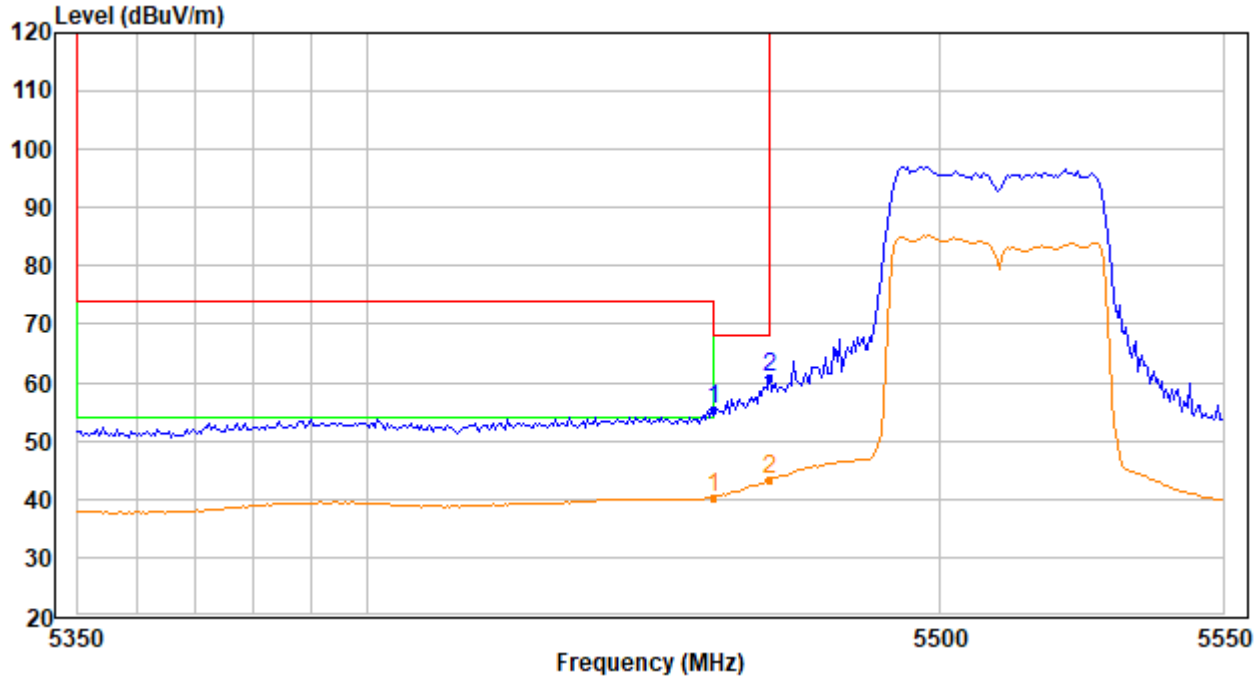
Frequency (MHz)	Peak level (dBμV/m)	Peak Limit (dBμV/m)	AV level (dBμV/m)	AV Limit (dBμV/m)	Conclusion
5350.000	54.23	74.00	39.33	54.00	Pass

Test Channel:	Channel 62	Ant. Polar. :	Vertical



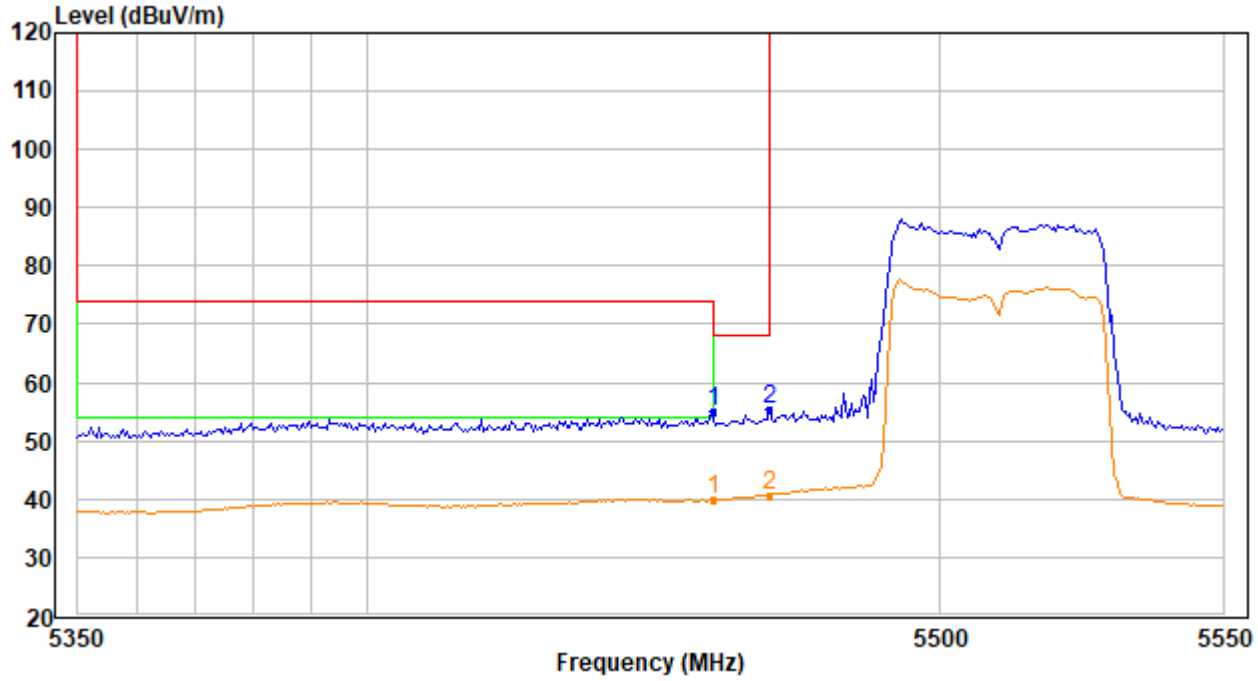
Frequency (MHz)	Peak level (dBμV/m)	Peak Limit (dBμV/m)	AV level (dBμV/m)	AV Limit (dBμV/m)	Conclusion
5350.000	54.95	74.00	39.82	54.00	Pass

Test Channel:	Channel 102	Ant. Polar. :	Horizontal



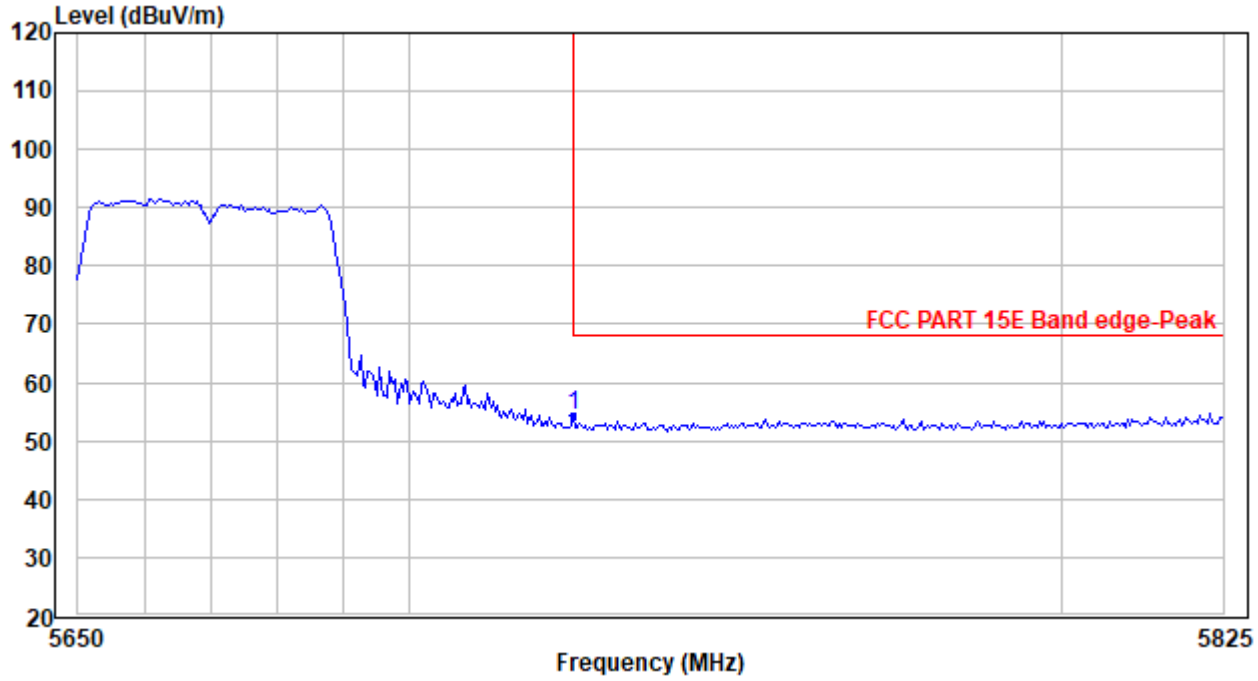
Frequency (MHz)	Peak level (dBμV/m)	Peak Limit (dBμV/m)	AV level (dBμV/m)	AV Limit (dBμV/m)	Conclusion
5460.000	55.52	68.20	40.19	54.00	Pass
5470.000	60.87	68.20	43.24	68.20	Pass

Test Channel:	Channel 102	Ant. Polar. :	Vertical



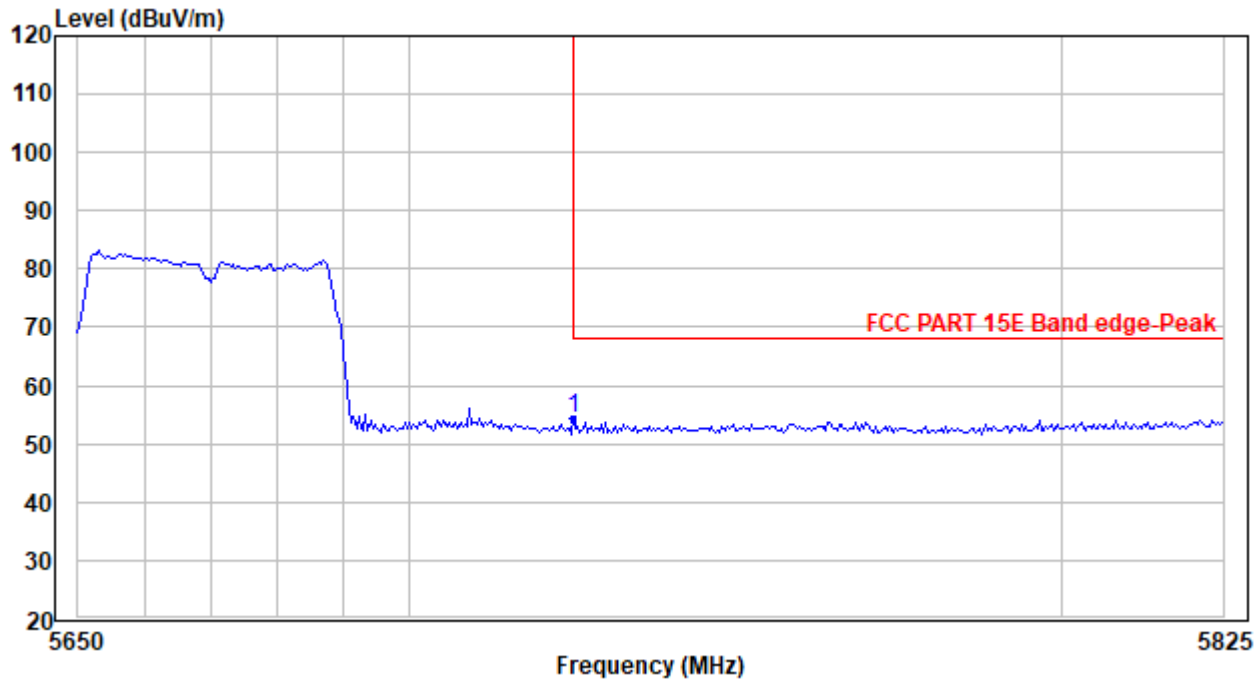
Frequency (MHz)	Peak level (dBμV/m)	Peak Limit (dBμV/m)	AV level (dBμV/m)	AV Limit (dBμV/m)	Conclusion
5460.000	54.90	68.20	39.85	54.00	Pass
5470.000	55.33	68.20	40.69	68.20	Pass

Test Channel:	Channel 134	Ant. Polar. :	Horizontal



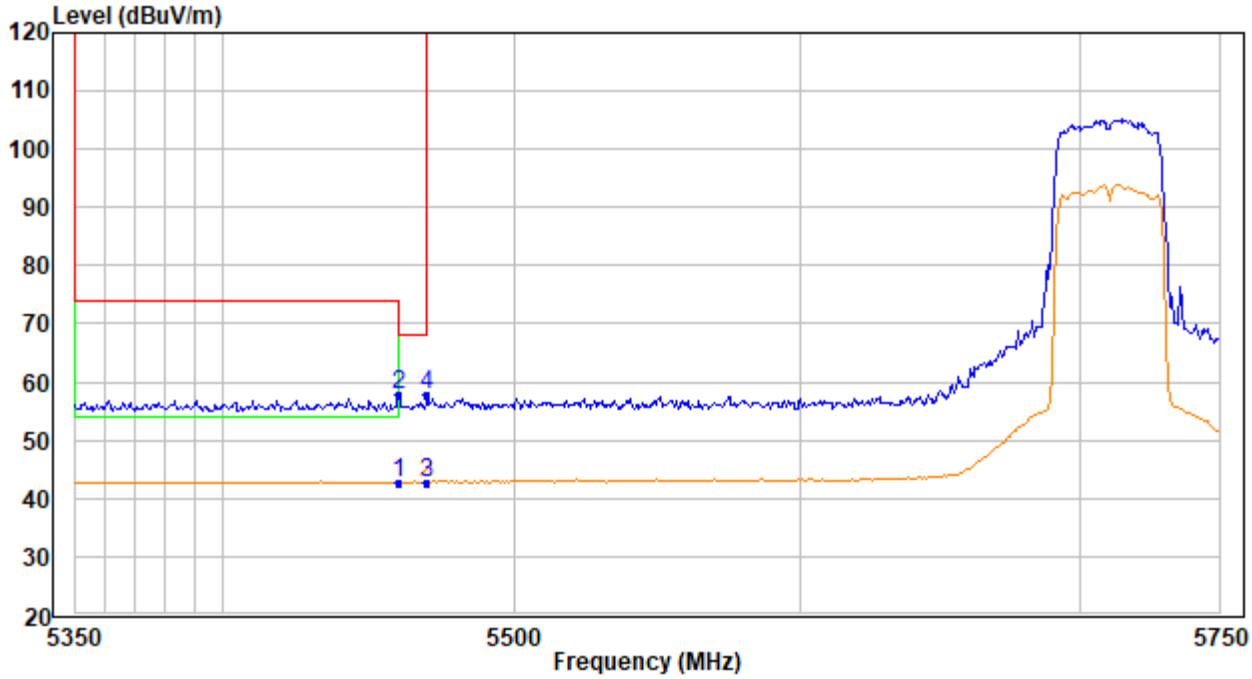
Frequency (MHz)	Peak level (dBμV/m)	Peak Limit (dBμV/m)	Conclusion
5725.000	54.43	68.20	Pass

Test Channel:	Channel 134	Ant. Polar. :	Vertical



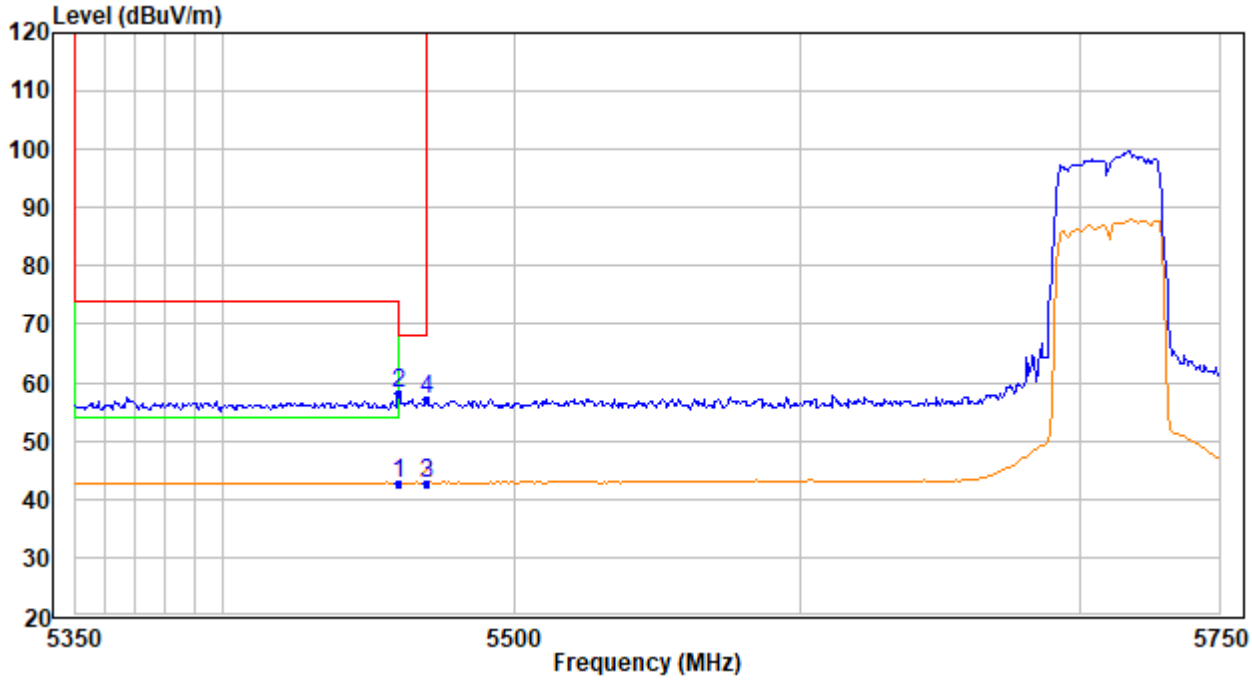
Frequency (MHz)	Peak level (dBμV/m)	Peak Limit (dBμV/m)	Conclusion
5725.000	54.43	68.20	Pass

Test Channel:	Channel 142_U-NII-2C	Ant. Polar. :	Horizontal



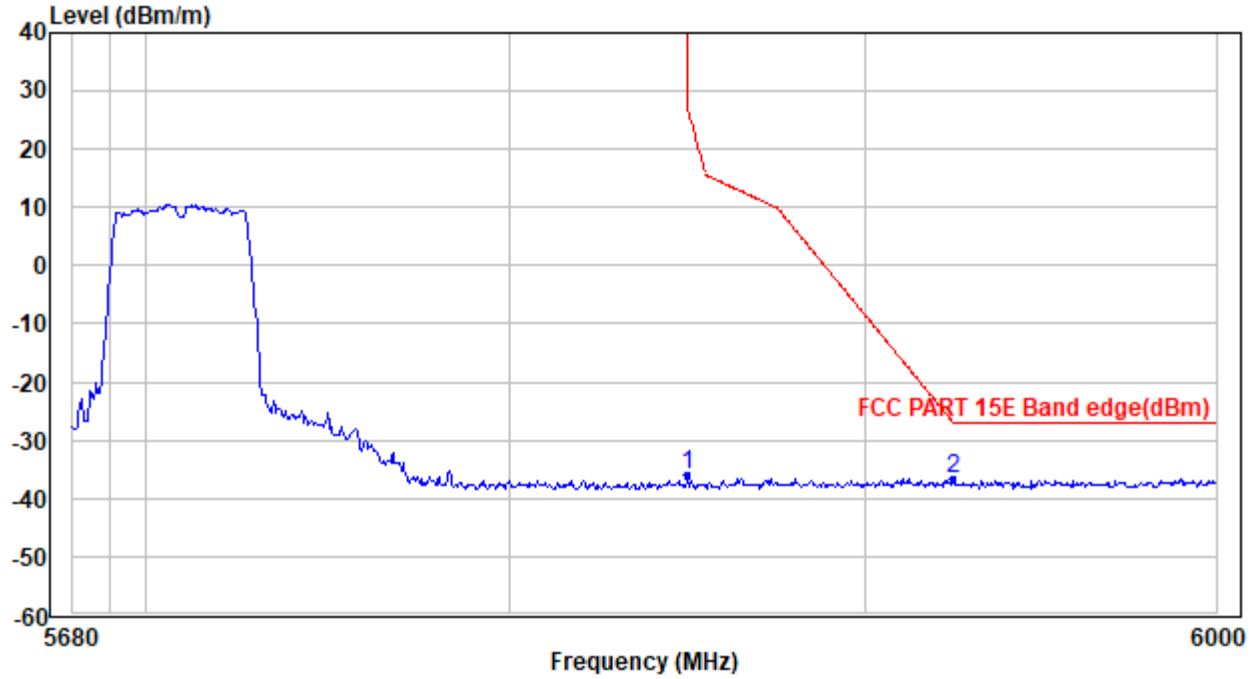
Frequency (MHz)	Peak level (dBuv/m)	Peak Limit (dBuv/m)	AV level (dBuv/m)	AV Limit (dBuv/m)	Conclusion
5460.000	57.83	68.20	42.85	54.00	PASS
5470.000	57.92	68.20	42.73	68.20	PASS

Test Channel:	Channel 142_U-NII-2C	Ant. Polar. :	Vertical



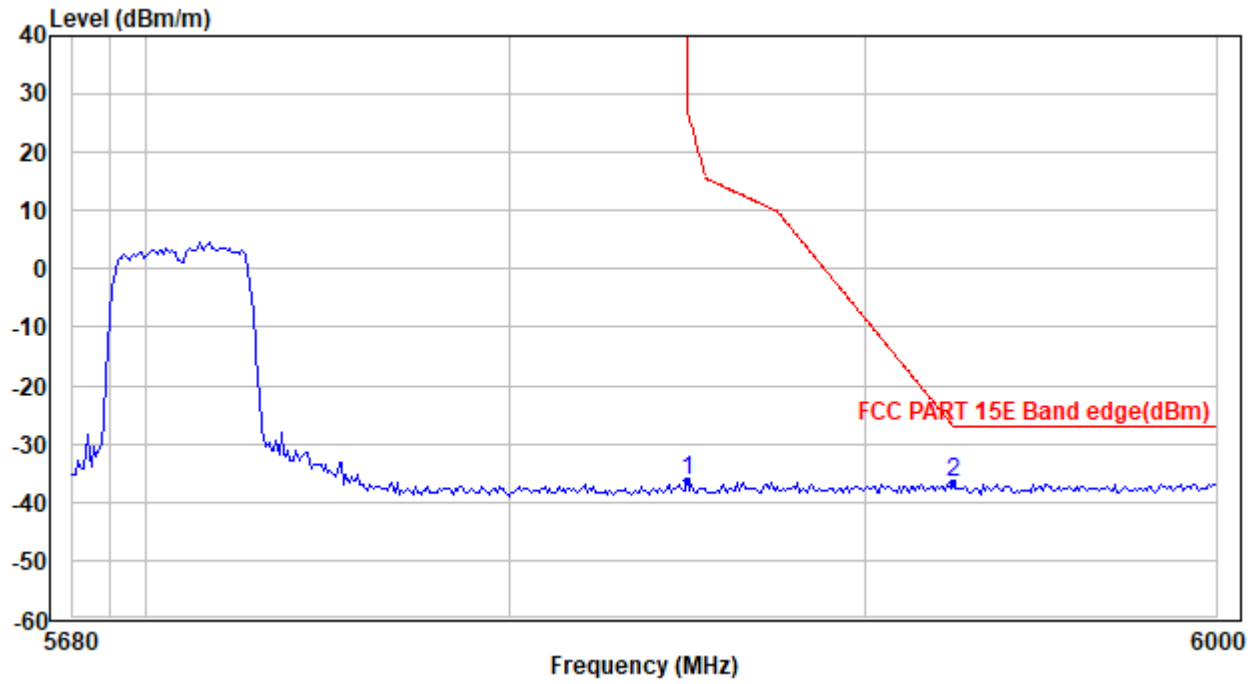
Frequency (MHz)	Peak level (dBuv/m)	Peak Limit (dBuv/m)	AV level (dBuv/m)	AV Limit (dBuv/m)	Conclusion
5460.000	57.99	68.20	42.73	54.00	PASS
5470.000	57.28	68.20	42.82	68.20	PASS

Test Channel:	Channel 142_U-NII-3	Ant. Polar. :	Horizontal



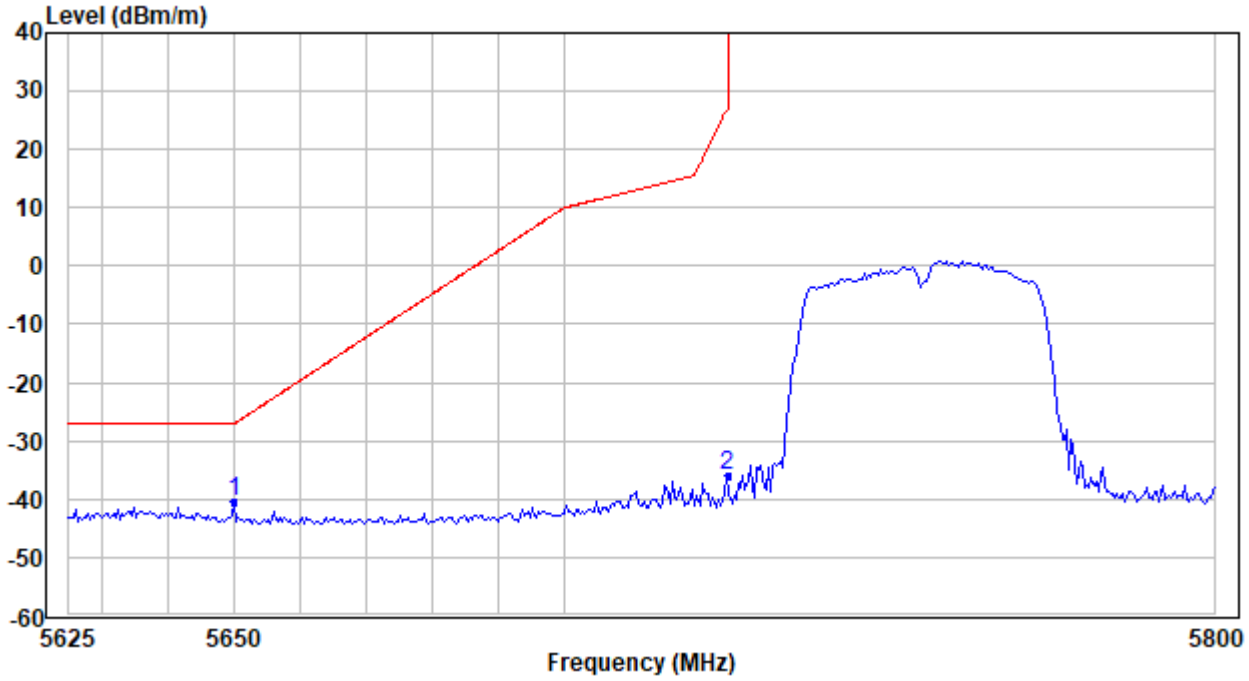
Frequency (MHz)	Peak level (dBm)	Peak Limit (dBm)	Conclusion
5850.000	-36.06	27.00	PASS
5925.000	-36.58	-27.00	PASS

Test Channel:	Channel 142_U-NII-3	Ant. Polar. :	Vertical



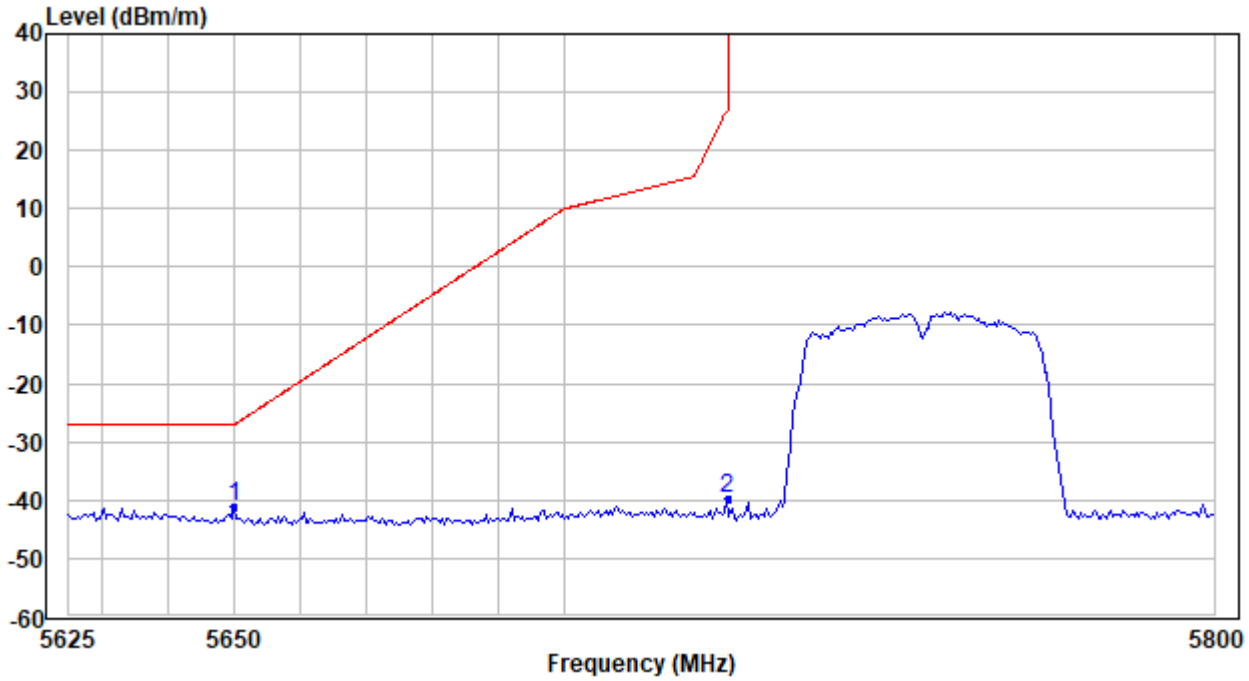
Frequency (MHz)	Peak level (dBm)	Peak Limit (dBm)	Conclusion
5850.000	-36.20	27.00	PASS
5925.000	-36.58	-27.00	PASS

Test Channel:	Channel 151	Ant. Polar. :	Horizontal



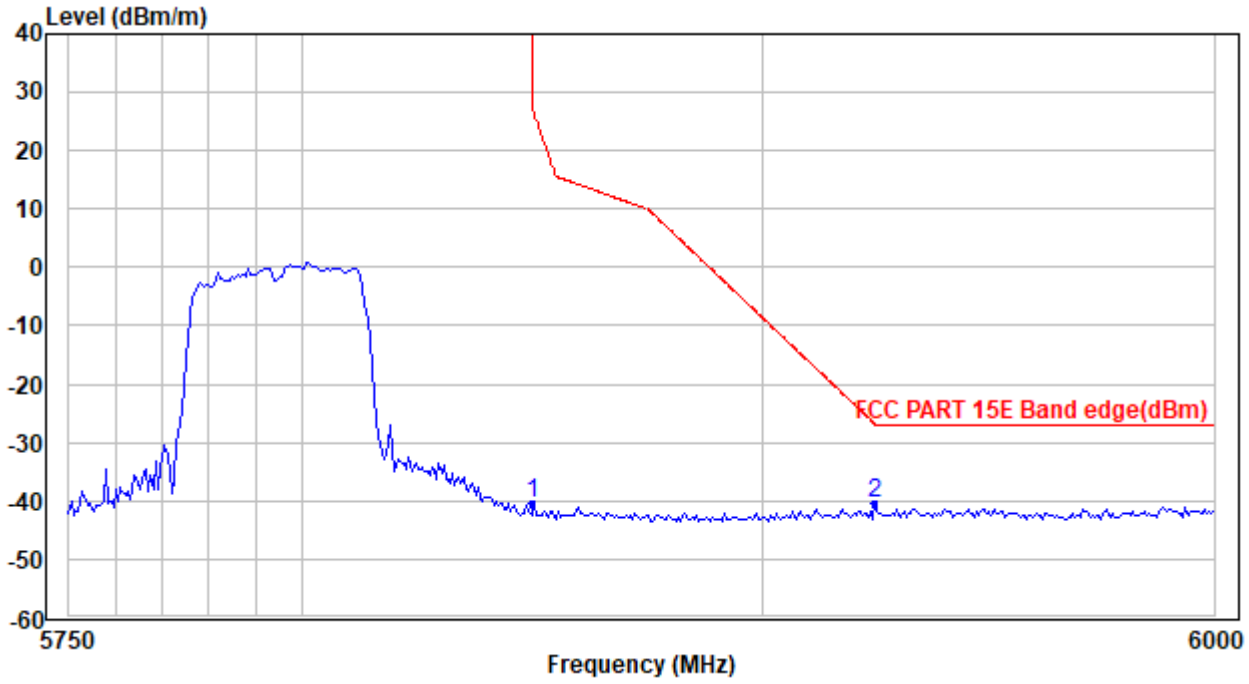
Frequency (MHz)	Peak level (dBm)	Peak Limit (dBm)	Conclusion
5650.000	-40.55	-27.00	Pass
5725.000	-35.87	27.00	Pass

Test Channel:	Channel 151	Ant. Polar. :	Vertical



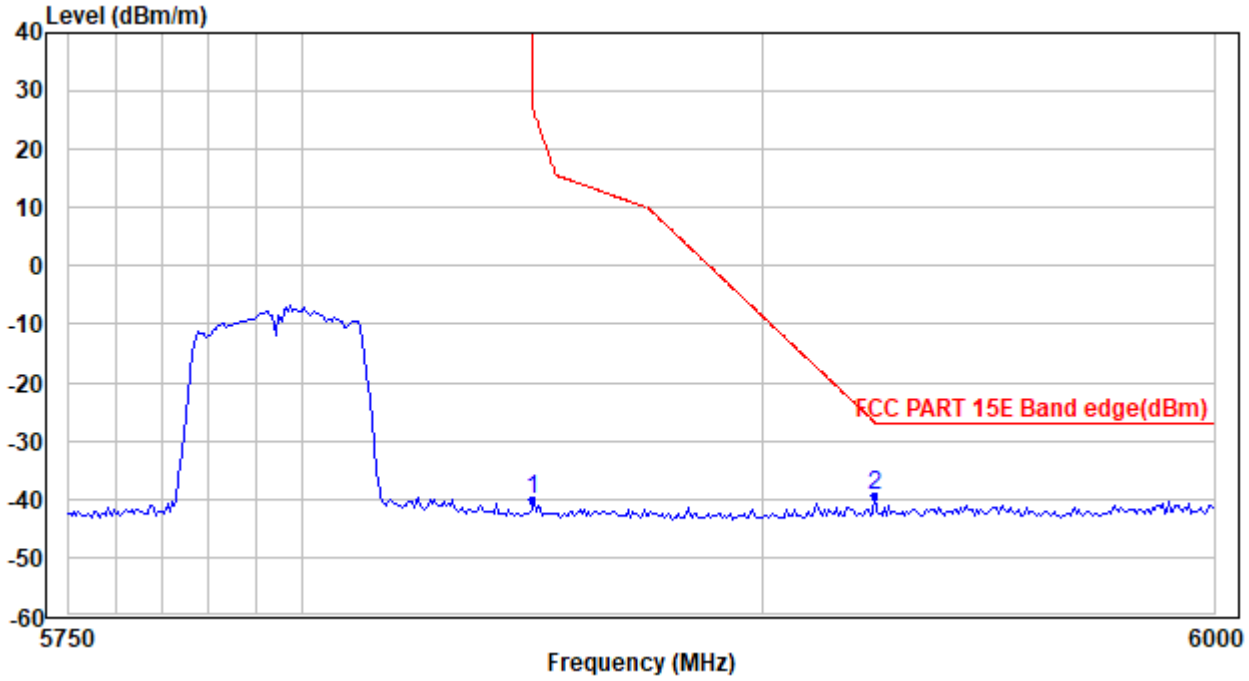
Frequency (MHz)	Peak level (dBm)	Peak Limit (dBm)	Conclusion
5650.000	-40.99	-27.00	Pass
5725.000	-39.69	27.00	Pass

Test Channel:	Channel 159	Ant. Polar. :	Horizontal



Frequency (MHz)	Peak level (dBm)	Peak Limit (dBm)	Conclusion
5850.000	-39.90	27.00	Pass
5925.000	-39.53	-27.00	Pass

Test Channel:	Channel 159	Ant. Polar. :	Vertical



Frequency (MHz)	Peak level (dBm)	Peak Limit (dBm)	Conclusion
5850.000	-39.90	27.00	Pass
5925.000	-39.53	-27.00	Pass

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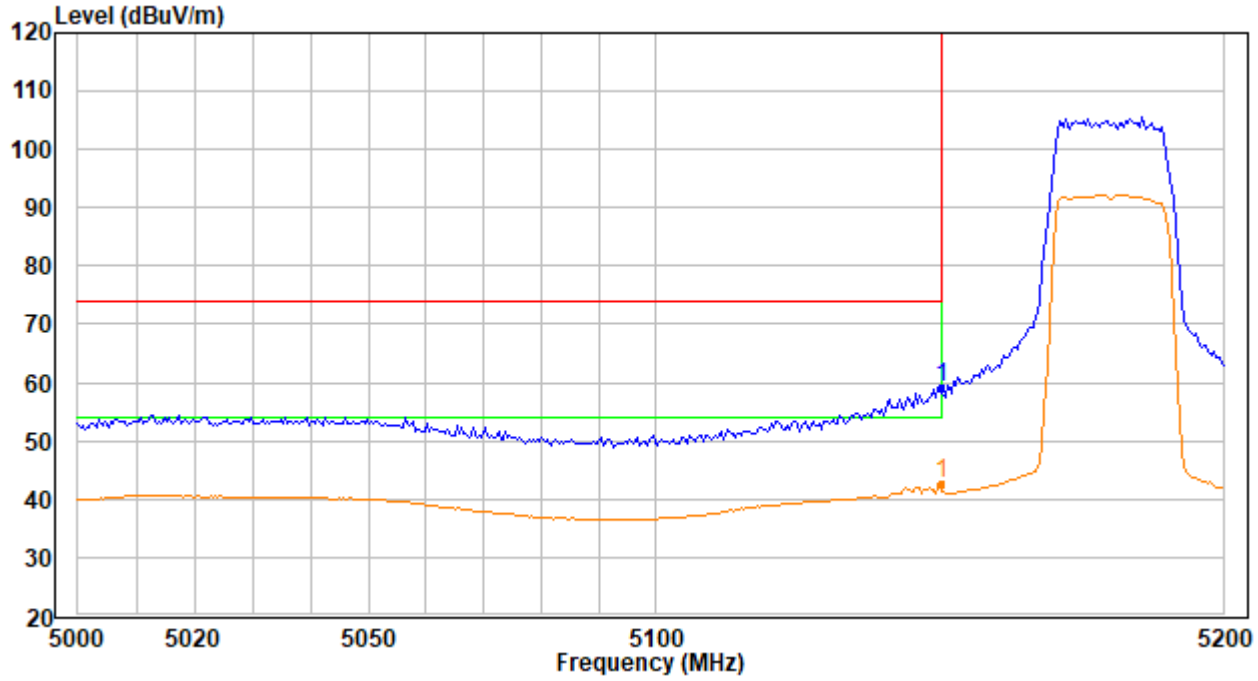
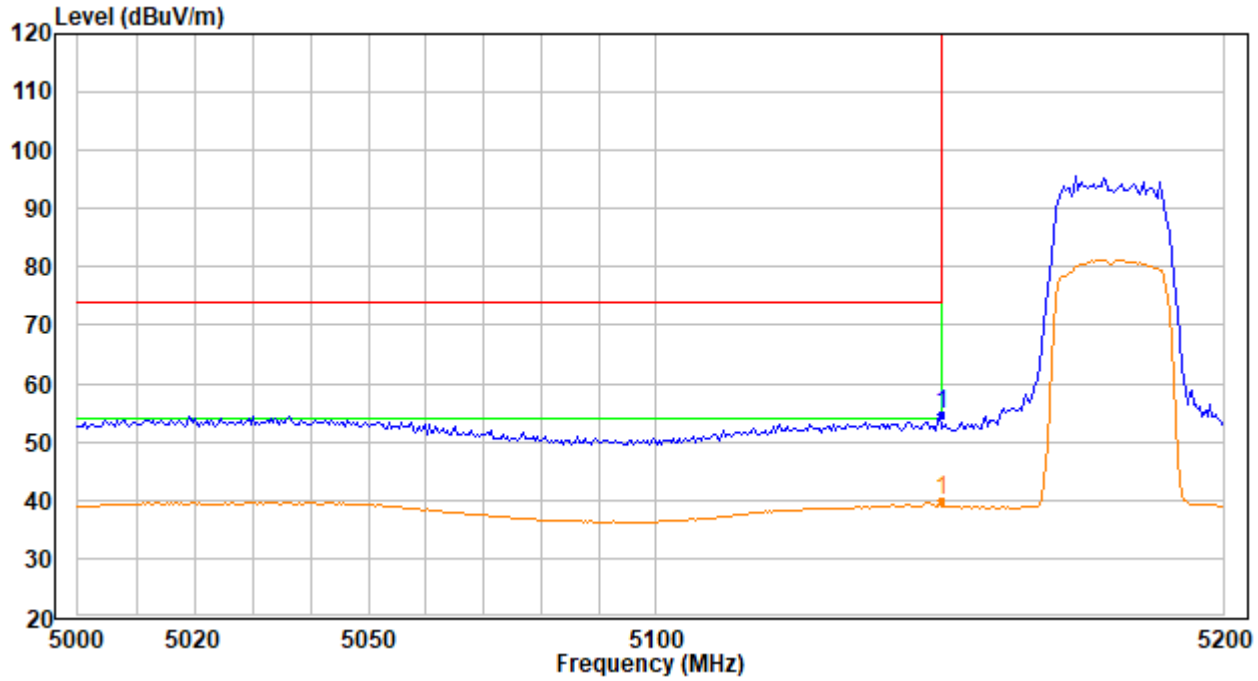
Test Channel:	Channel 36	Ant. Polar. :	Horizontal



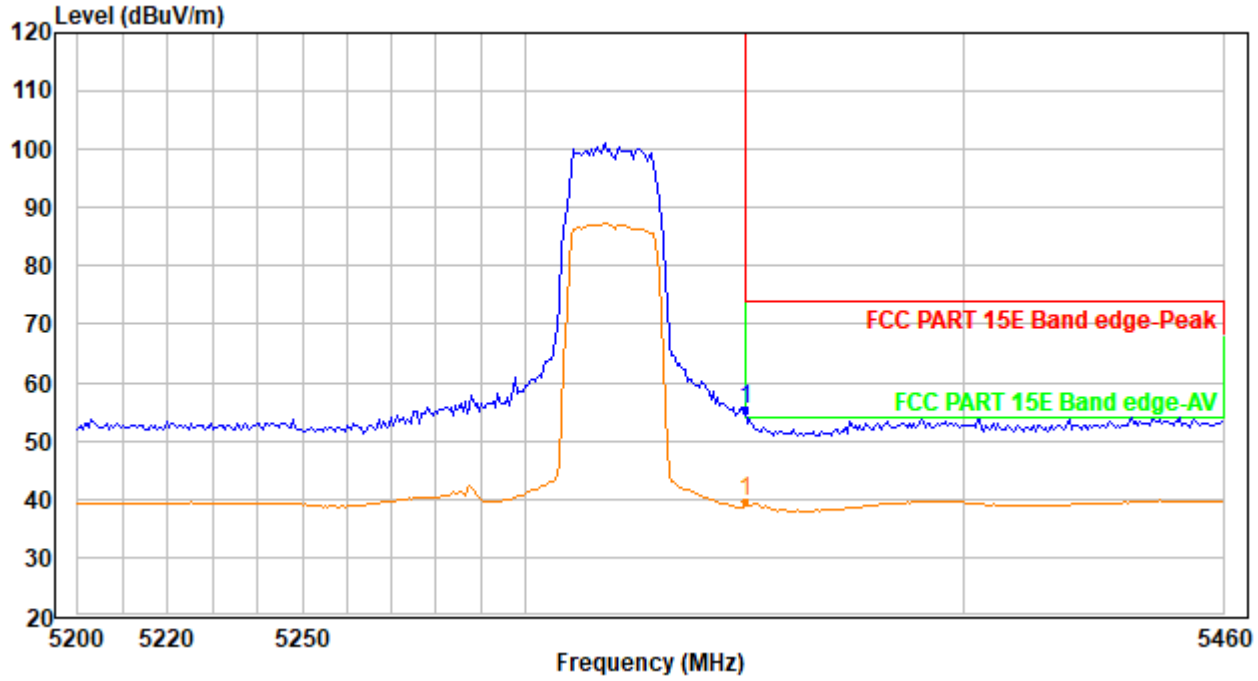
Frequency (MHz)	Peak level (dBμV/m)	Peak Limit (dBμV/m)	AV level (dBμV/m)	AV Limit (dBμV/m)	Conclusion
5150.000	59.29	74.00	42.70	54.00	Pass

Test Channel:	Channel 36	Ant. Polar. :	Vertical



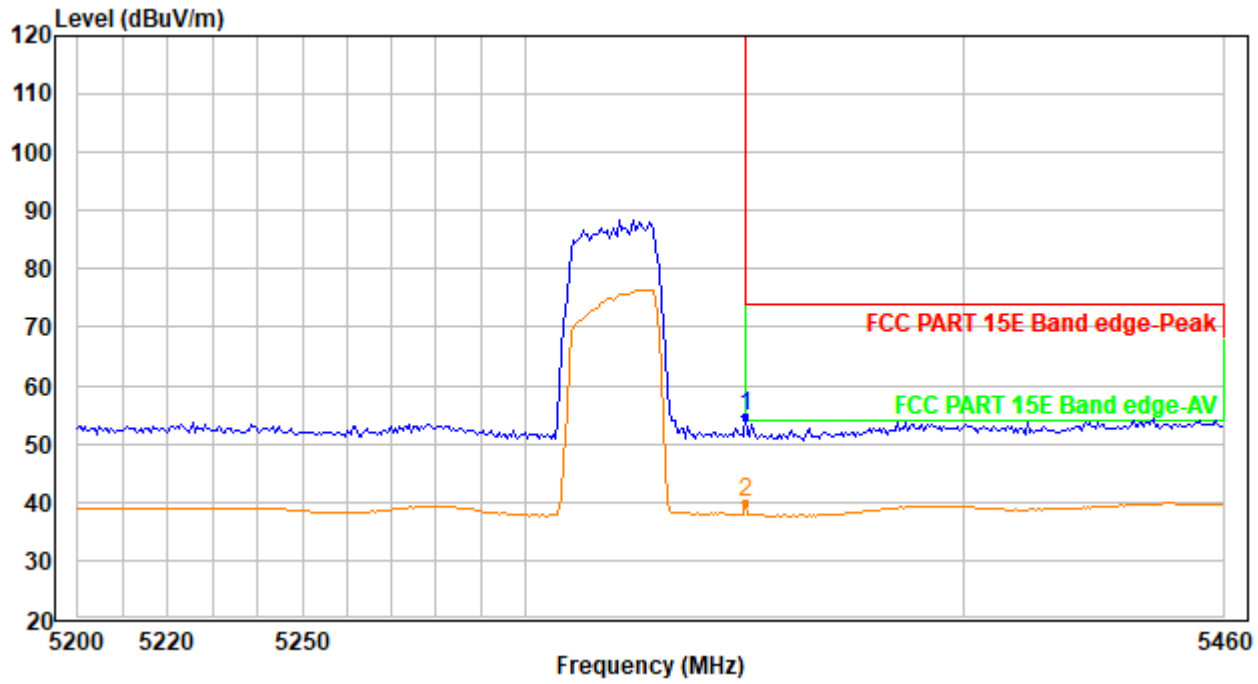
Frequency (MHz)	Peak level (dBμV/m)	Peak Limit (dBμV/m)	AV level (dBμV/m)	AV Limit (dBμV/m)	Conclusion
5150.000	54.70	74.00	39.97	54.00	Pass

Test Channel:	Channel 64	Ant. Polar. :	Horizontal



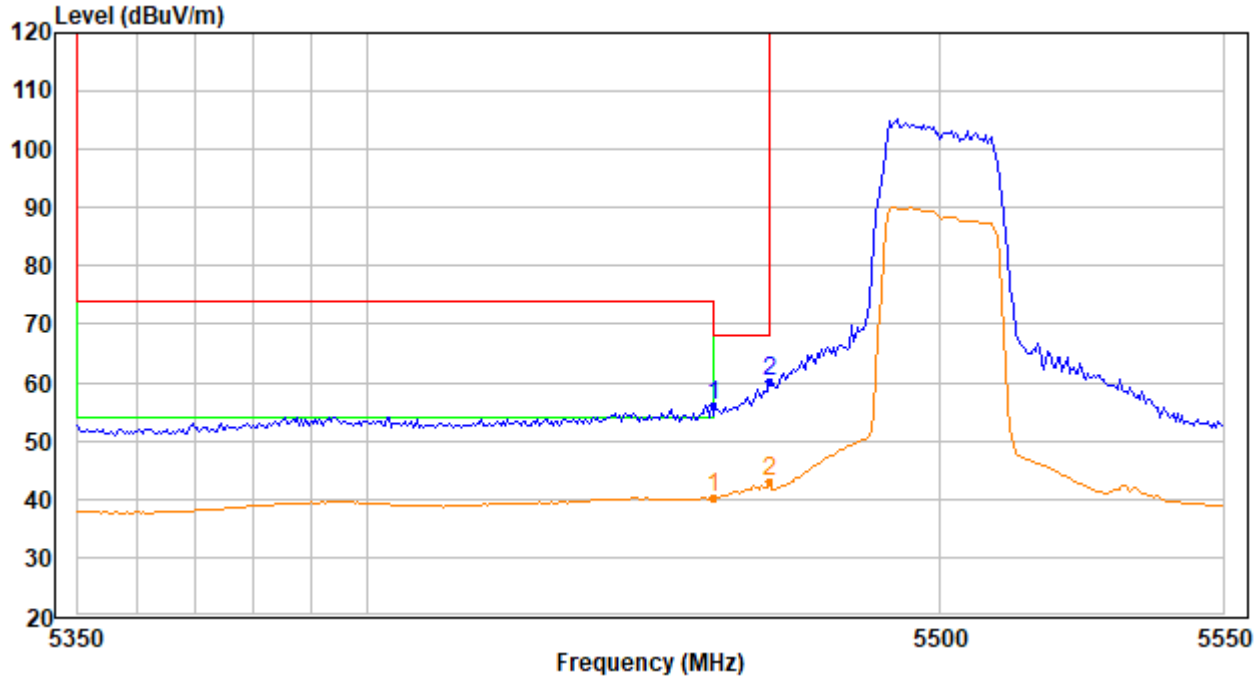
Frequency (MHz)	Peak level (dBμV/m)	Peak Limit (dBμV/m)	AV level (dBμV/m)	AV Limit (dBμV/m)	Conclusion
5350.000	55.44	74.00	39.61	54.00	Pass

Test Channel:	Channel 64	Ant. Polar. :	Vertical



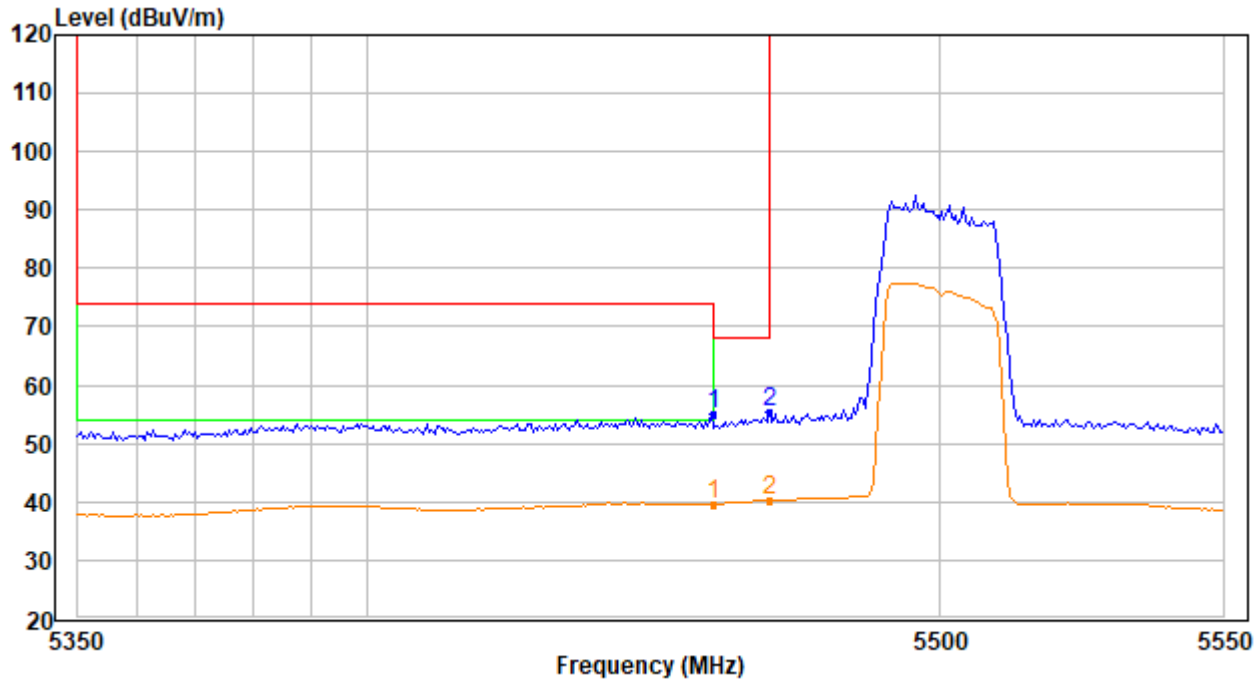
Frequency (MHz)	Peak level (dBμV/m)	Peak Limit (dBμV/m)	AV level (dBμV/m)	AV Limit (dBμV/m)	Conclusion
5350.000	54.88	74.00	39.85	54.00	Pass

Test Channel:	Channel 100	Ant. Polar. :	Horizontal



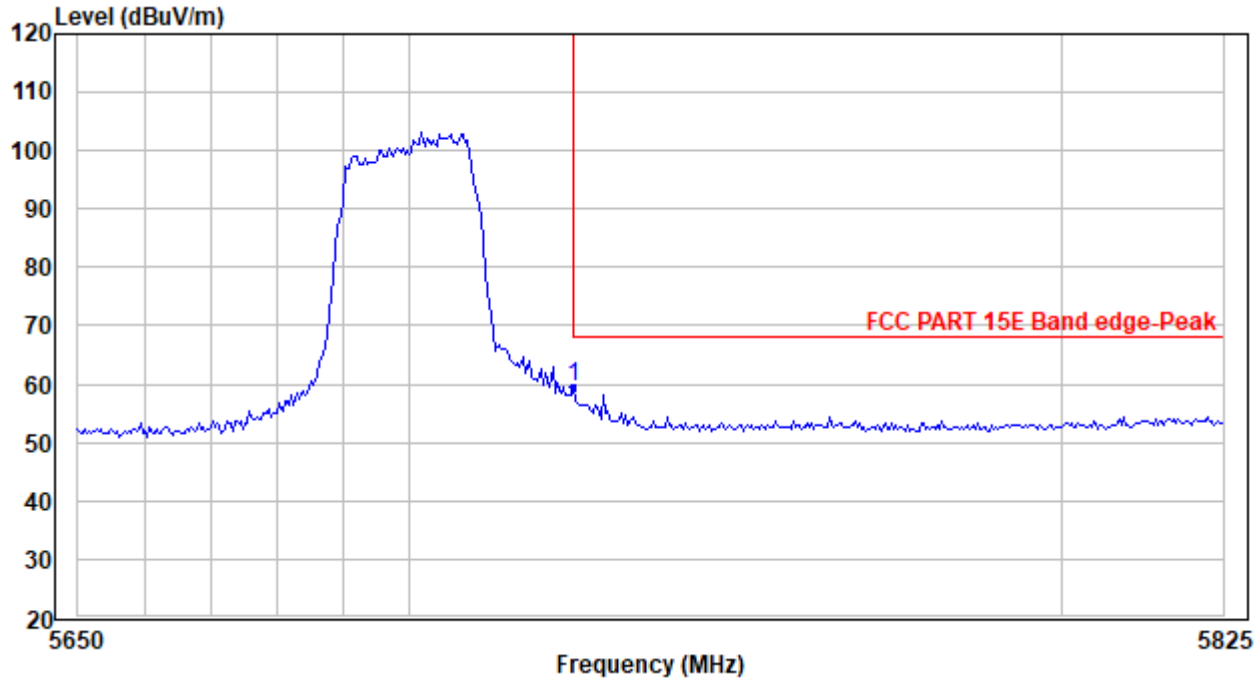
Frequency (MHz)	Peak level (dBμV/m)	Peak Limit (dBμV/m)	AV level (dBμV/m)	AV Limit (dBμV/m)	Conclusion
5460.000	56.19	68.20	40.11	54.00	Pass
5470.000	60.24	68.20	42.97	68.20	Pass

Test Channel:	Channel 100	Ant. Polar. :	Vertical



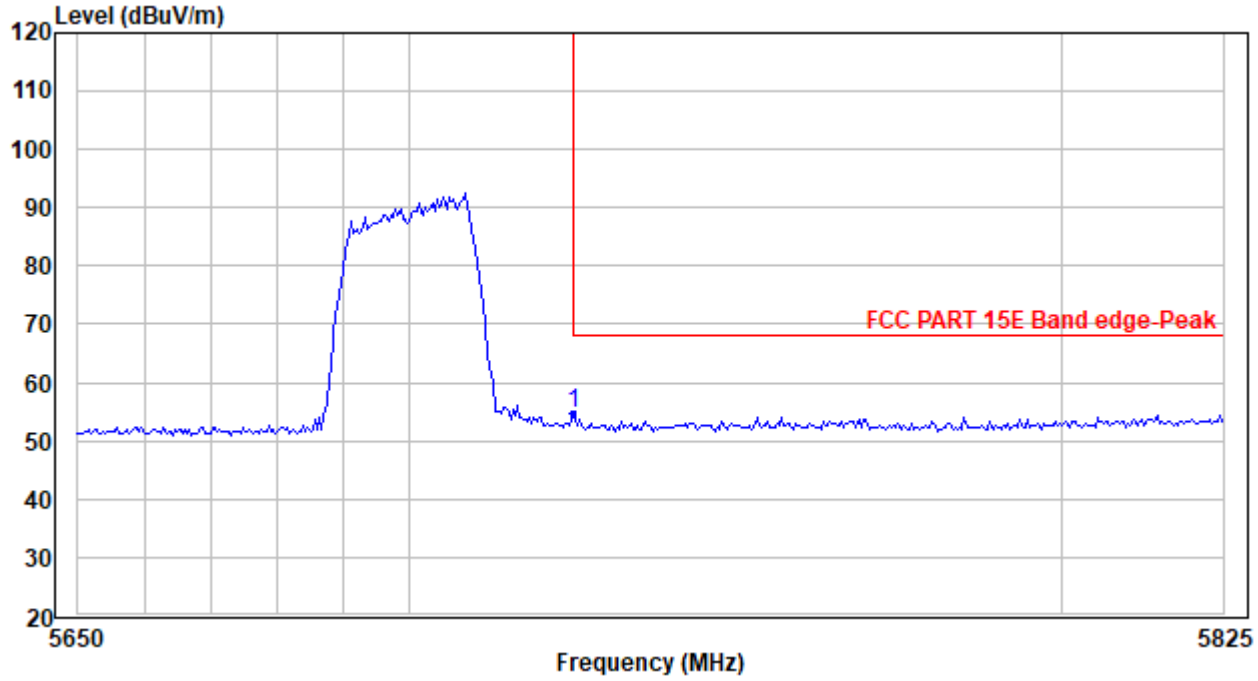
Frequency (MHz)	Peak level (dBμV/m)	Peak Limit (dBμV/m)	AV level (dBμV/m)	AV Limit (dBμV/m)	Conclusion
5460.000	55.22	68.20	39.58	54.00	Pass
5470.000	55.30	68.20	40.19	68.20	Pass

Test Channel:	Channel 140	Ant. Polar. :	Horizontal



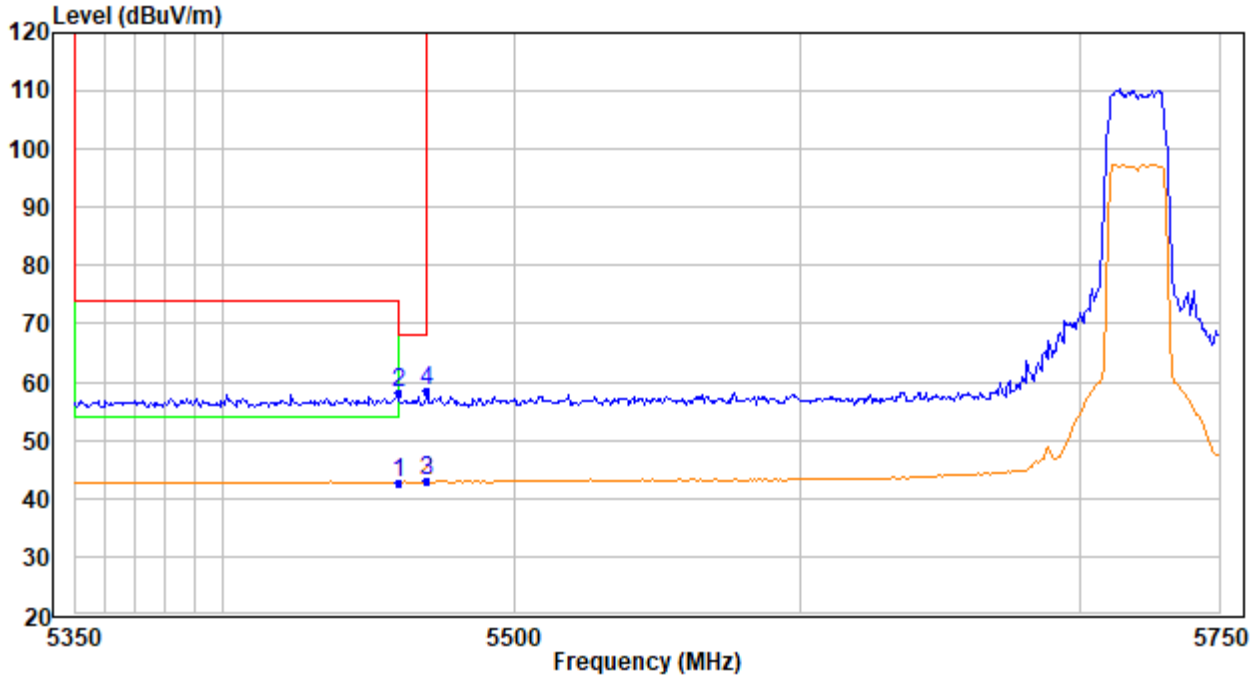
Frequency (MHz)	Peak level (dBμV/m)	Peak Limit (dBμV/m)	Conclusion
5725.000	59.38	68.20	Pass

Test Channel:	Channel 140	Ant. Polar. :	Vertical



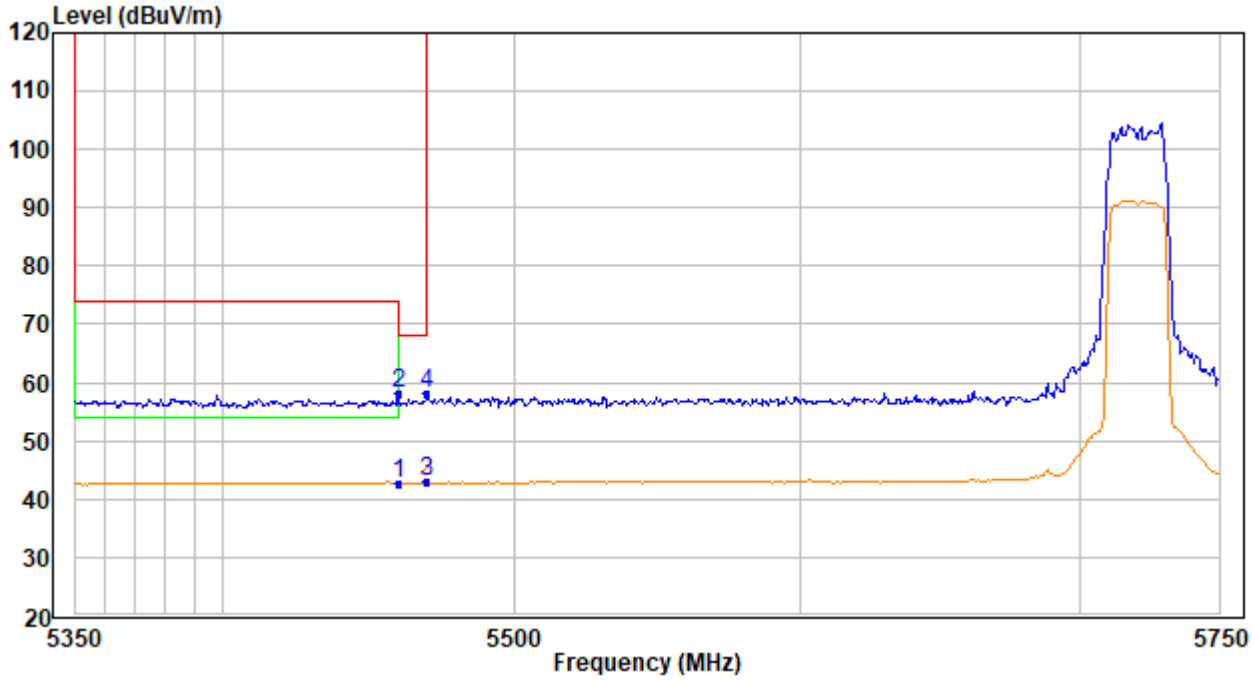
Frequency (MHz)	Peak level (dBμV/m)	Peak Limit (dBμV/m)	Conclusion
5725.000	54.57	68.20	Pass

Test Channel:	Channel 144_U-NII-2C	Ant. Polar. :	Horizontal



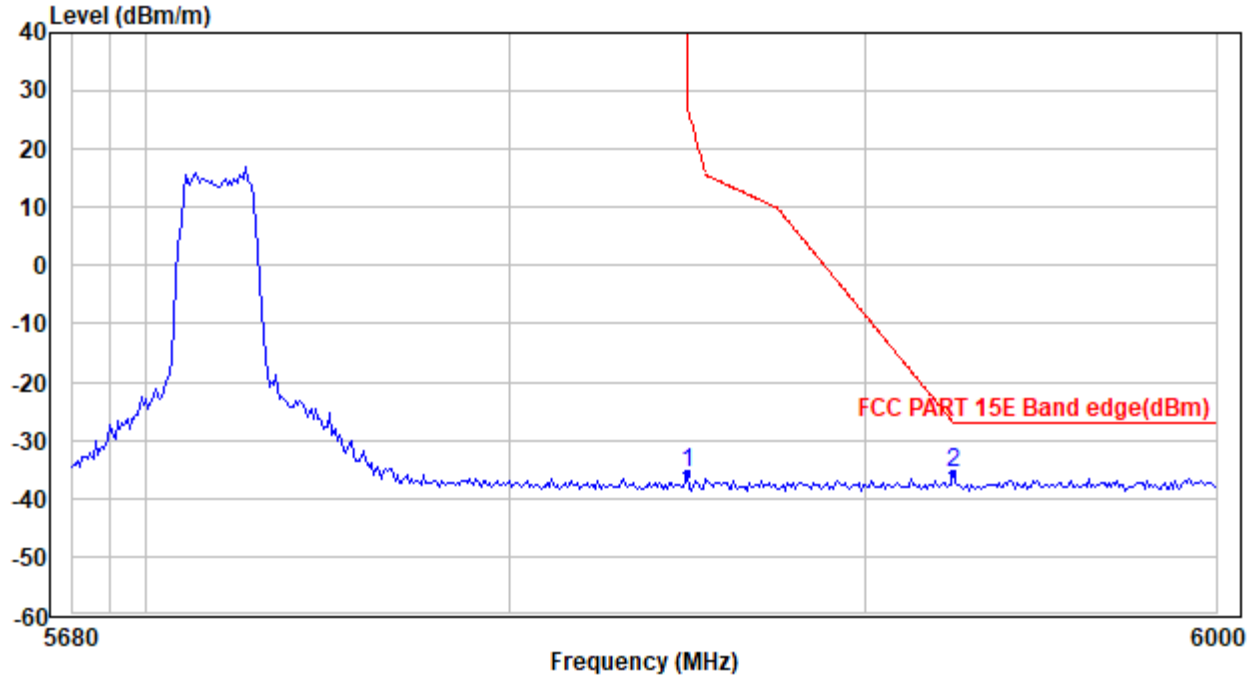
Frequency (MHz)	Peak level (dBuv/m)	Peak Limit (dBuv/m)	AV level (dBuv/m)	AV Limit (dBuv/m)	Conclusion
5460.000	58.24	68.20	42.85	54.00	PASS
5470.000	58.45	68.20	42.86	68.20	PASS

Test Channel:	Channel 144_U-NII-2C	Ant. Polar. :	Vertical



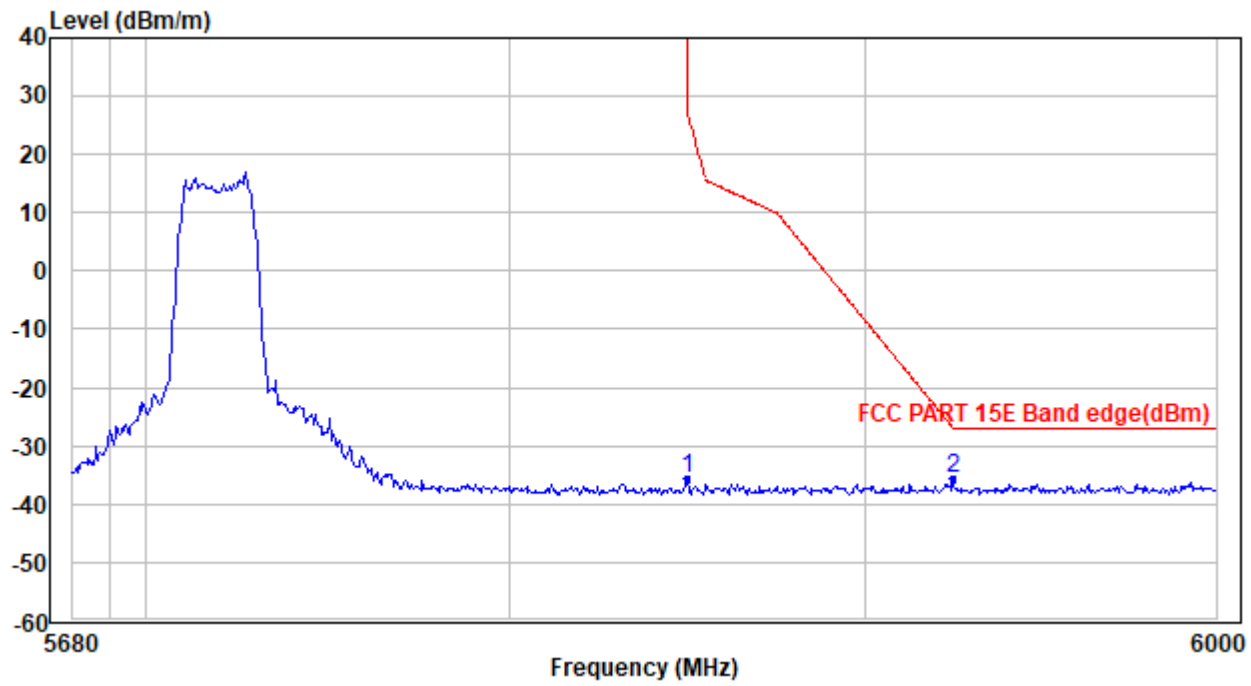
Frequency (MHz)	Peak level (dBuv/m)	Peak Limit (dBuv/m)	AV level (dBuv/m)	AV Limit (dBuv/m)	Conclusion
5460.000	58.29	68.20	42.81	54.00	PASS
5470.000	58.29	68.20	42.86	68.20	PASS

Test Channel:	Channel 144_U-NII-3	Ant. Polar. :	Horizontal



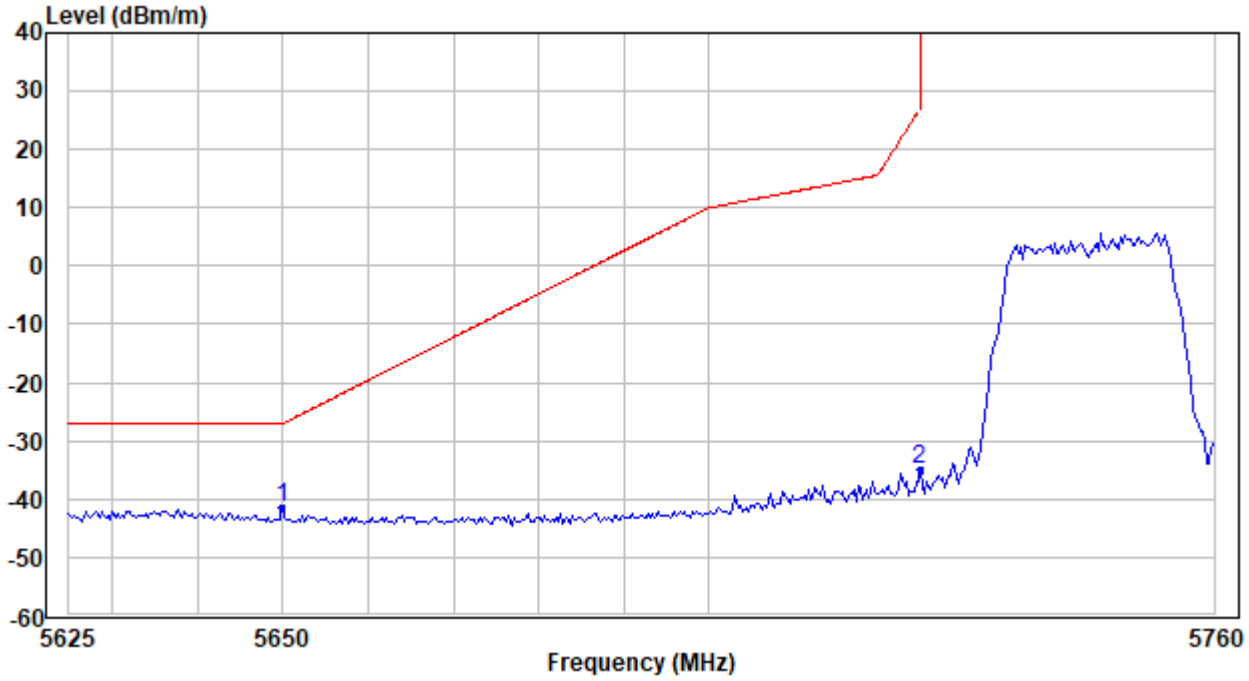
Frequency (MHz)	Peak level (dBm)	Peak Limit (dBm)	Conclusion
5850.000	-35.64	27.00	PASS
5925.000	-35.63	-27.00	PASS

Test Channel:	Channel 144_U-NII-3	Ant. Polar. :	Vertical



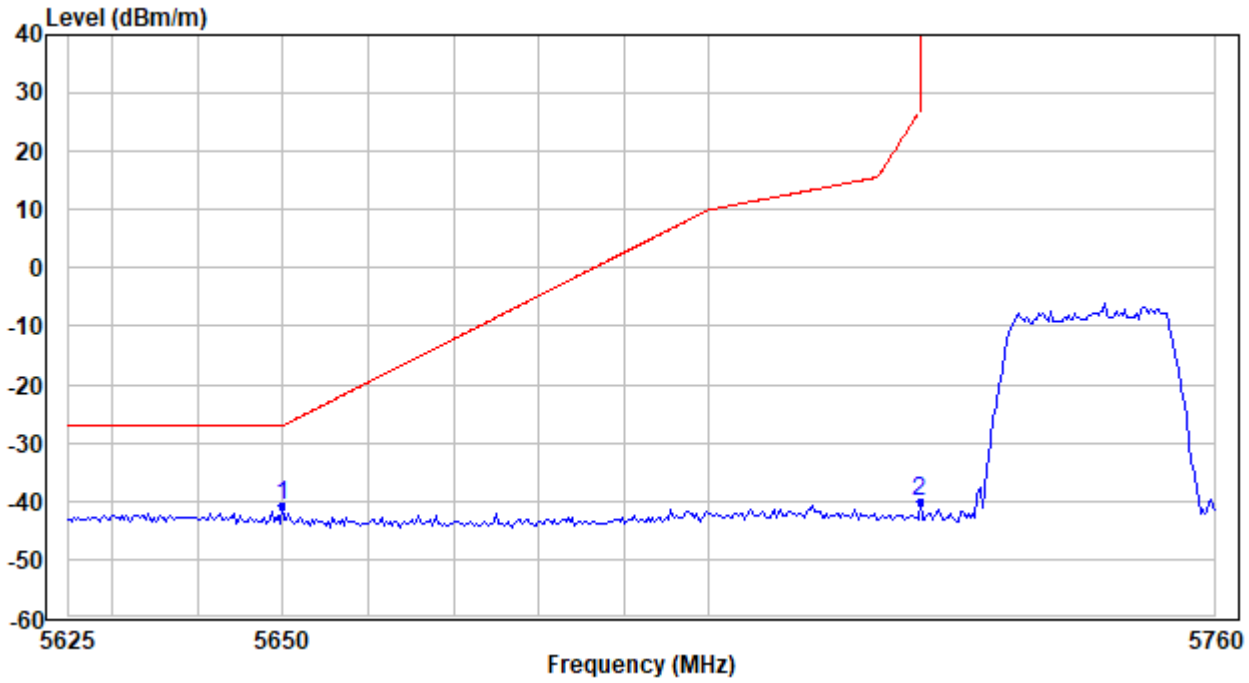
Frequency (MHz)	Peak level (dBm)	Peak Limit (dBm)	Conclusion
5850.000	-35.64	27.00	PASS
5925.000	-35.63	-27.00	PASS

Test Channel:	Channel 149	Ant. Polar. :	Horizontal



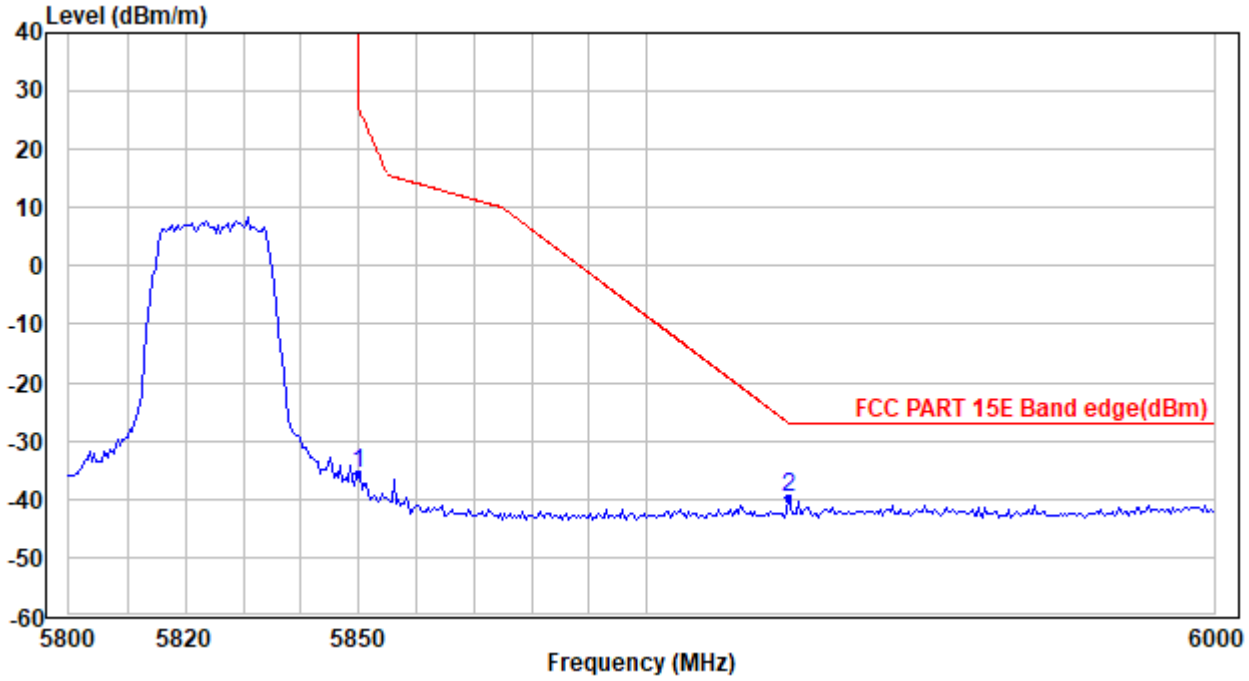
Frequency (MHz)	Peak level (dBm)	Peak Limit (dBm)	Conclusion
5650.000	-40.84	-27.00	Pass
5725.000	-34.88	27.00	Pass

Test Channel:	Channel 149	Ant. Polar. :	Vertical



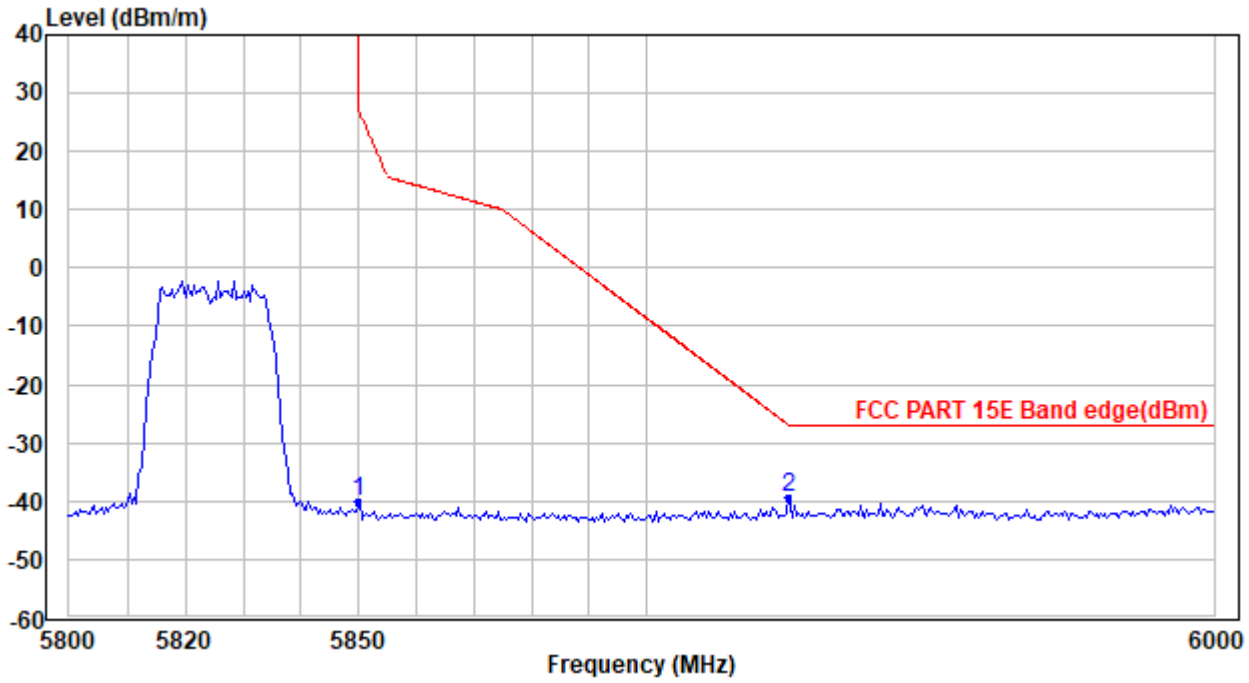
Frequency (MHz)	Peak level (dBm)	Peak Limit (dBm)	Conclusion
5650.000	-40.84	-27.00	Pass
5725.000	-40.05	27.00	Pass

Test Channel:	Channel 165	Ant. Polar. :	Horizontal



Frequency (MHz)	Peak level (dBm)	Peak Limit (dBm)	Conclusion
5850.000	-35.61	27.00	Pass
5925.000	-39.53	-27.00	Pass

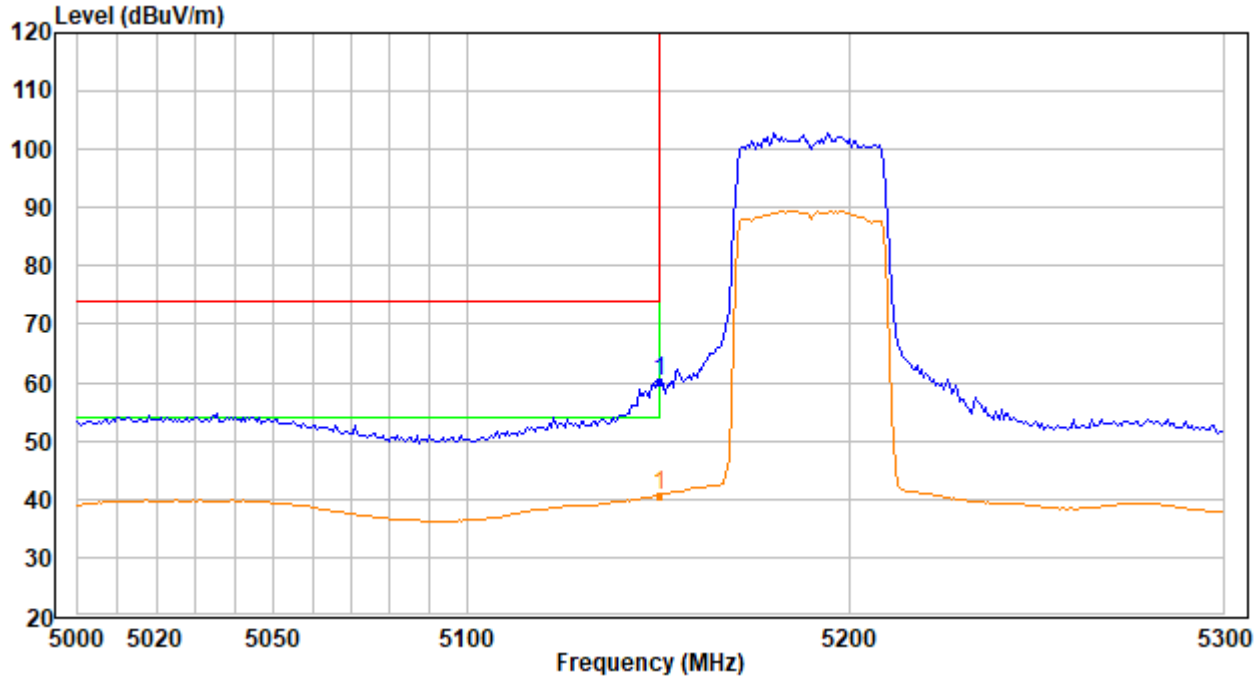
Test Channel:	Channel 165	Ant. Polar. :	Vertical



Frequency (MHz)	Peak level (dBm)	Peak Limit (dBm)	Conclusion
5850.000	-40.01	27.00	Pass
5925.000	-39.53	-27.00	Pass

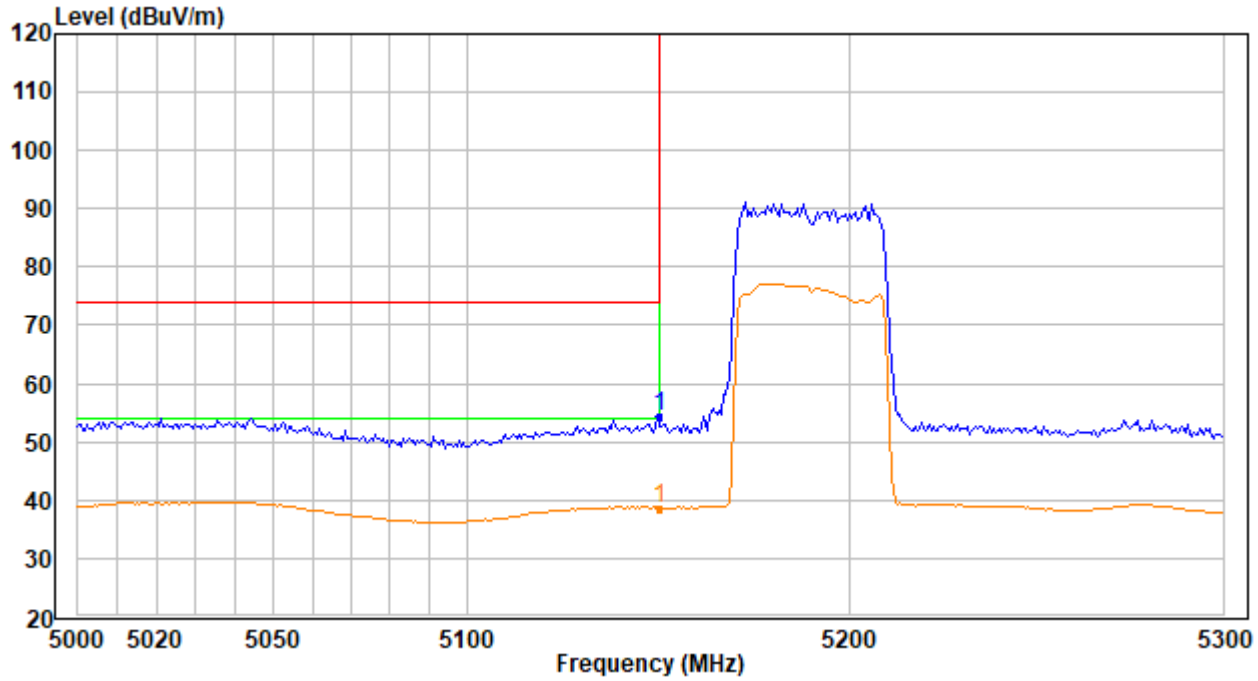
IEEE 802.11ax-HE40

Test Channel:	Channel 38	Ant. Polar. :	Horizontal



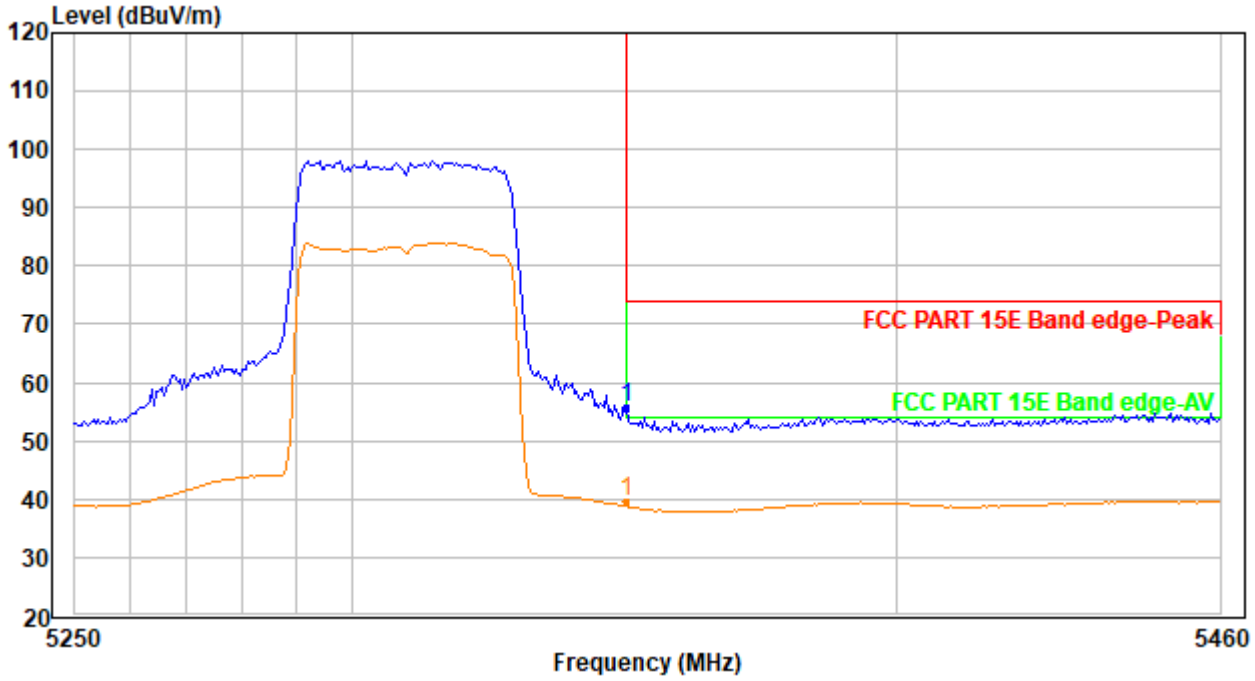
Frequency (MHz)	Peak level (dBμV/m)	Peak Limit (dBμV/m)	AV level (dBμV/m)	AV Limit (dBμV/m)	Conclusion
5150.000	60.25	74.00	40.52	54.00	Pass

Test Channel:	Channel 38	Ant. Polar. :	Vertical



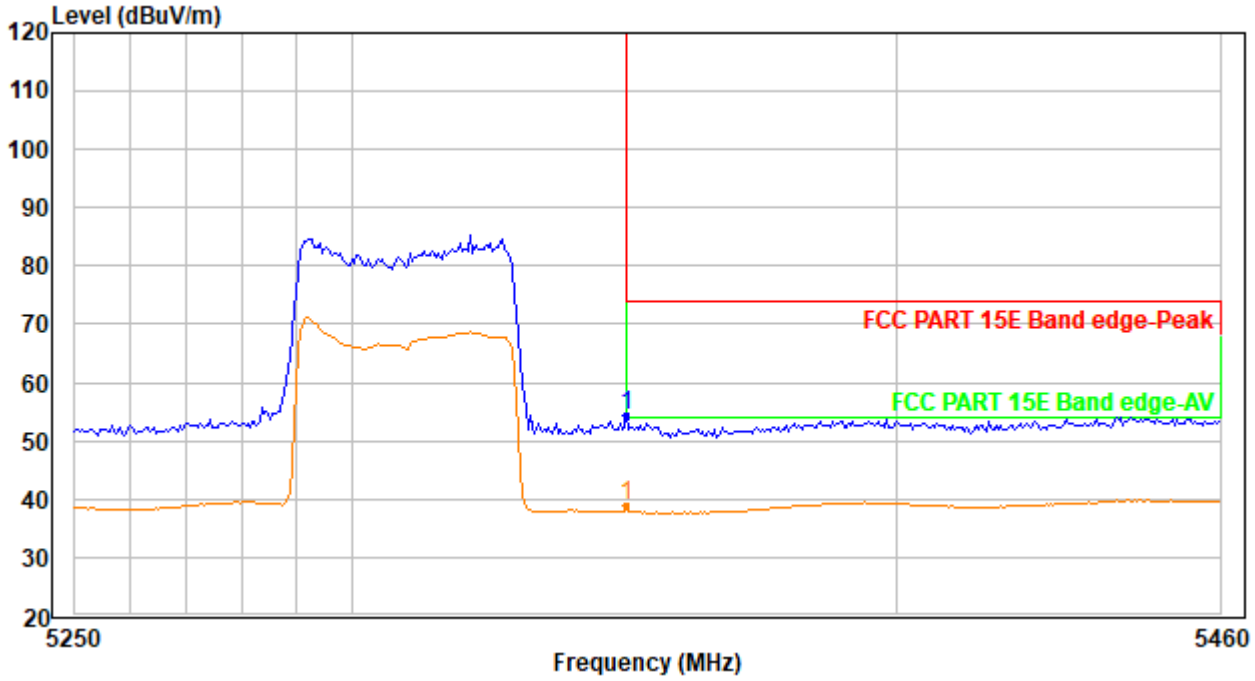
Frequency (MHz)	Peak level (dBμV/m)	Peak Limit (dBμV/m)	AV level (dBμV/m)	AV Limit (dBμV/m)	Conclusion
5150.000	54.23	74.00	38.69	54.00	Pass

Test Channel:	Channel 62	Ant. Polar. :	Horizontal



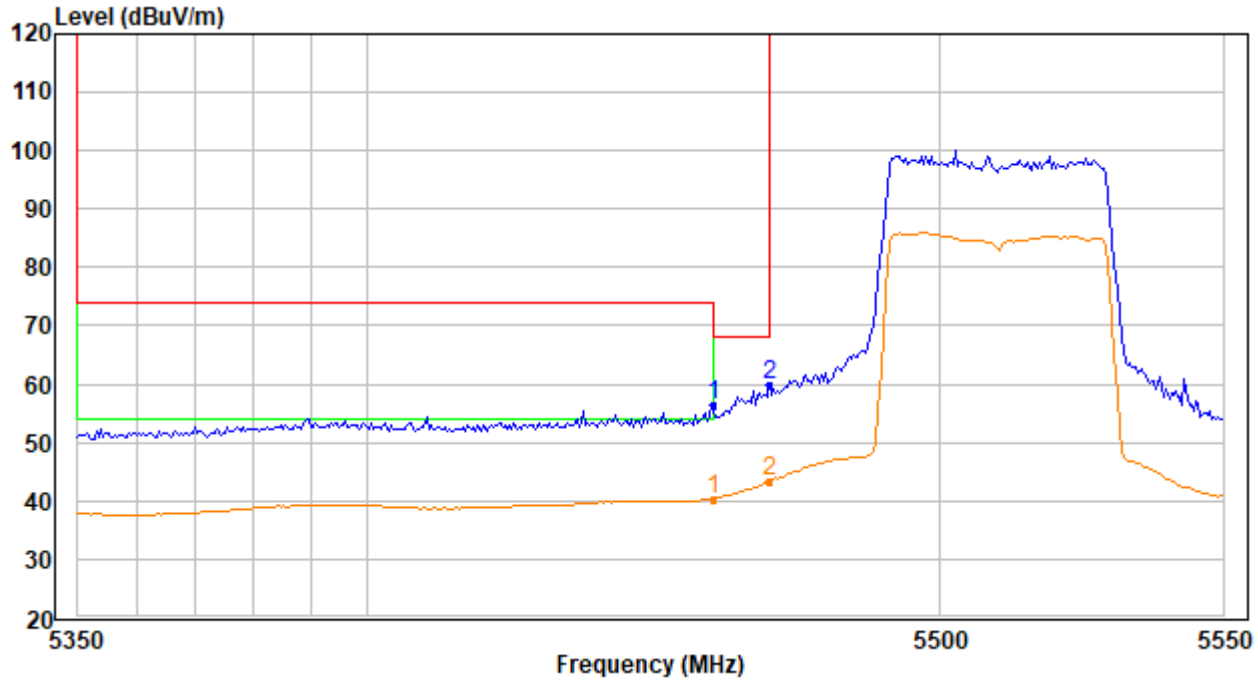
Frequency (MHz)	Peak level (dBμV/m)	Peak Limit (dBμV/m)	AV level (dBμV/m)	AV Limit (dBμV/m)	Conclusion
5350.000	55.81	74.00	39.69	54.00	Pass

Test Channel:	Channel 62	Ant. Polar. :	Vertical



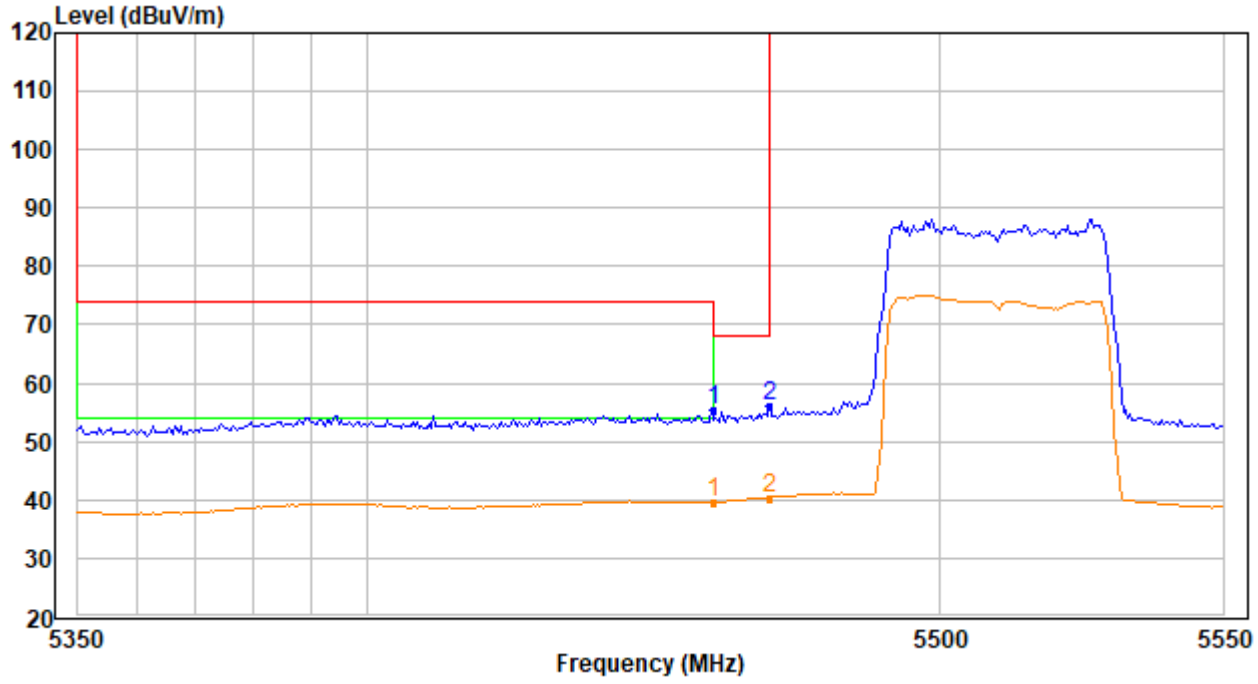
Frequency (MHz)	Peak level (dBμV/m)	Peak Limit (dBμV/m)	AV level (dBμV/m)	AV Limit (dBμV/m)	Conclusion
5350.000	54.34	74.00	38.83	54.00	Pass

Test Channel:	Channel 102	Ant. Polar. :	Horizontal



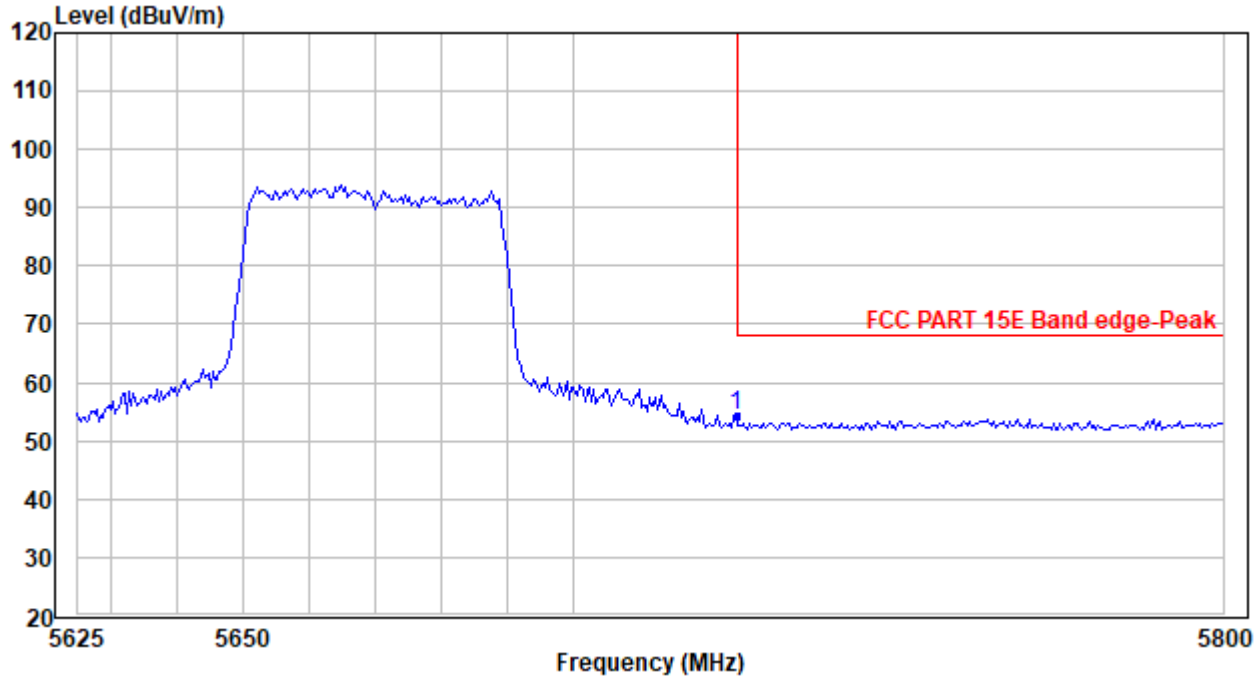
Frequency (MHz)	Peak level (dBμV/m)	Peak Limt (dBμV/m)	AV level (dBμV/m)	AV Limit (dBμV/m)	Conclusion
5460.000	56.27	68.20	40.36	54.00	Pass
5470.000	59.69	68.20	43.28	68.20	Pass

Test Channel:	Channel 102	Ant. Polar. :	Vertical



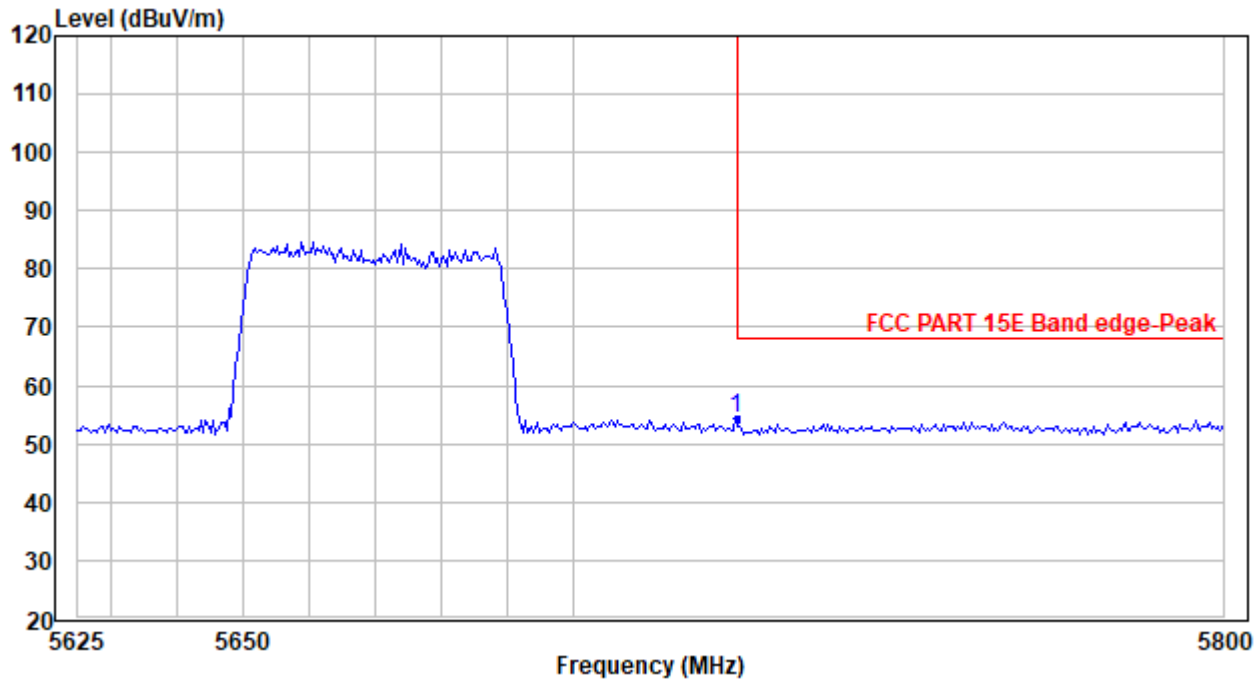
Frequency (MHz)	Peak level (dBμV/m)	Peak Limit (dBμV/m)	AV level (dBμV/m)	AV Limit (dBμV/m)	Conclusion
5460.000	55.33	68.20	39.62	54.00	Pass
5470.000	55.92	68.20	40.37	68.20	Pass

Test Channel:	Channel 134	Ant. Polar. :	Horizontal



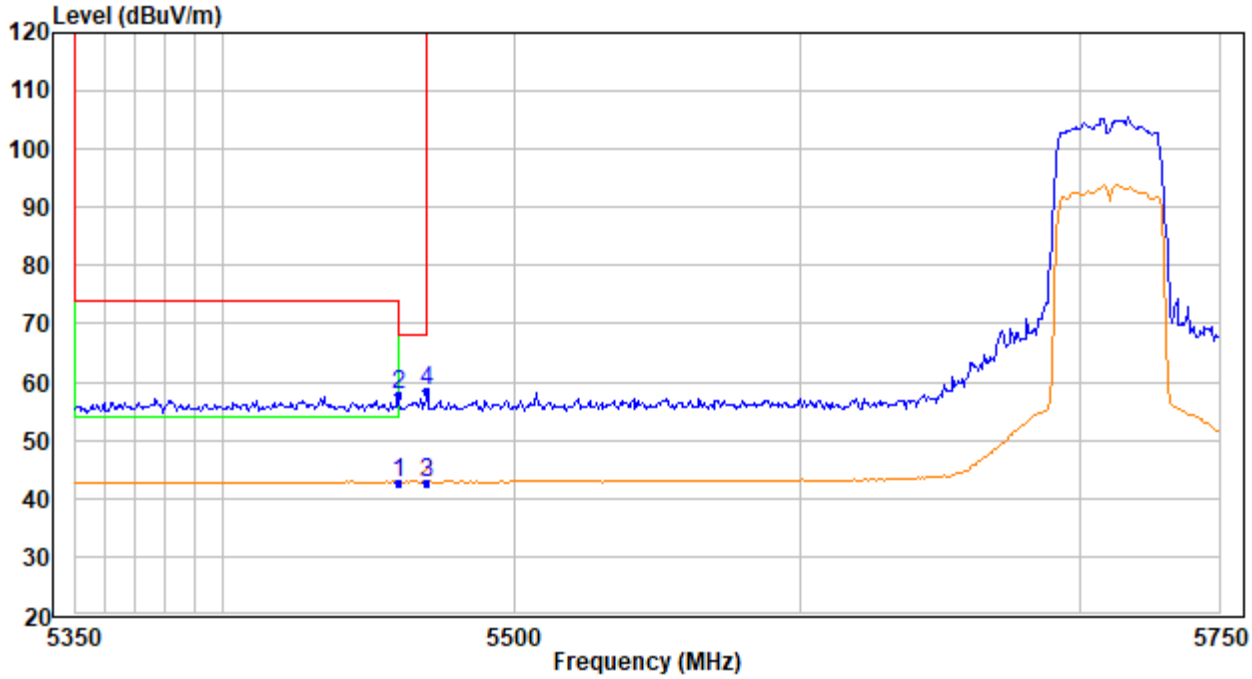
Frequency (MHz)	Peak level (dBμV/m)	Peak Limit (dBμV/m)	Conclusion
5725.000	54.44	68.20	Pass

Test Channel:	Channel 134	Ant. Polar. :	Vertical



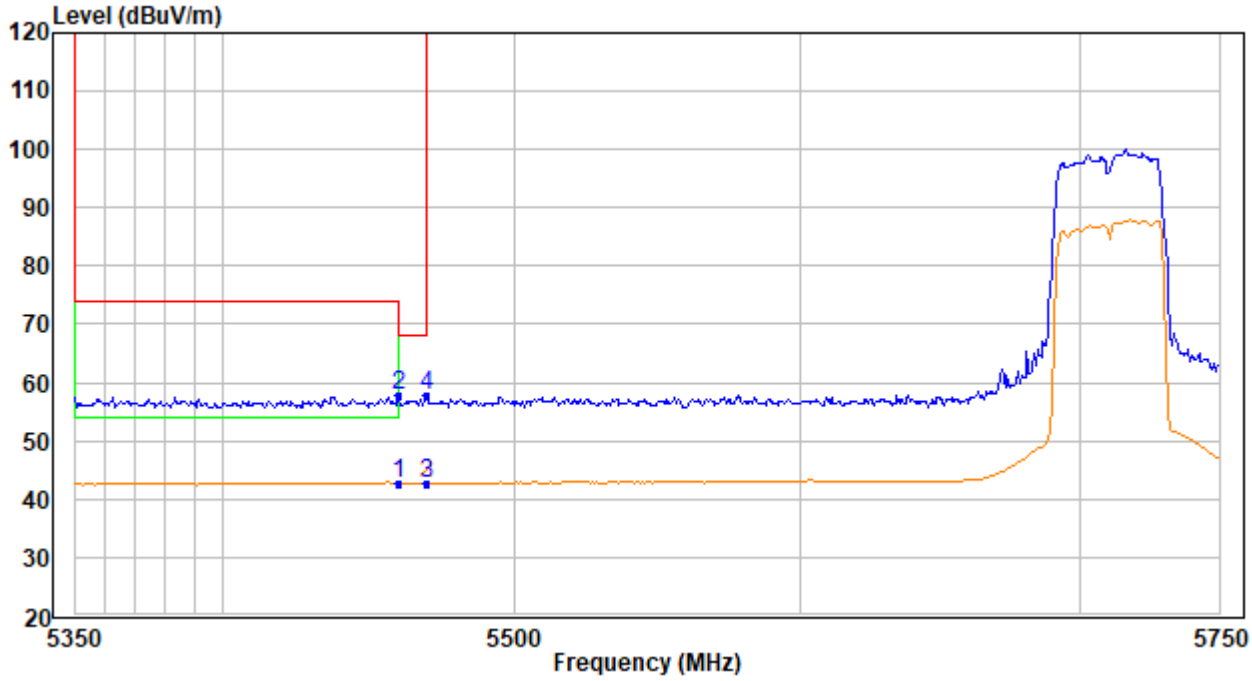
Frequency (MHz)	Peak level (dBμV/m)	Peak Limit (dBμV/m)	Conclusion
5725.000	54.44	68.20	Pass

Test Channel:	Channel 142_U-NII-2C	Ant. Polar. :	Horizontal



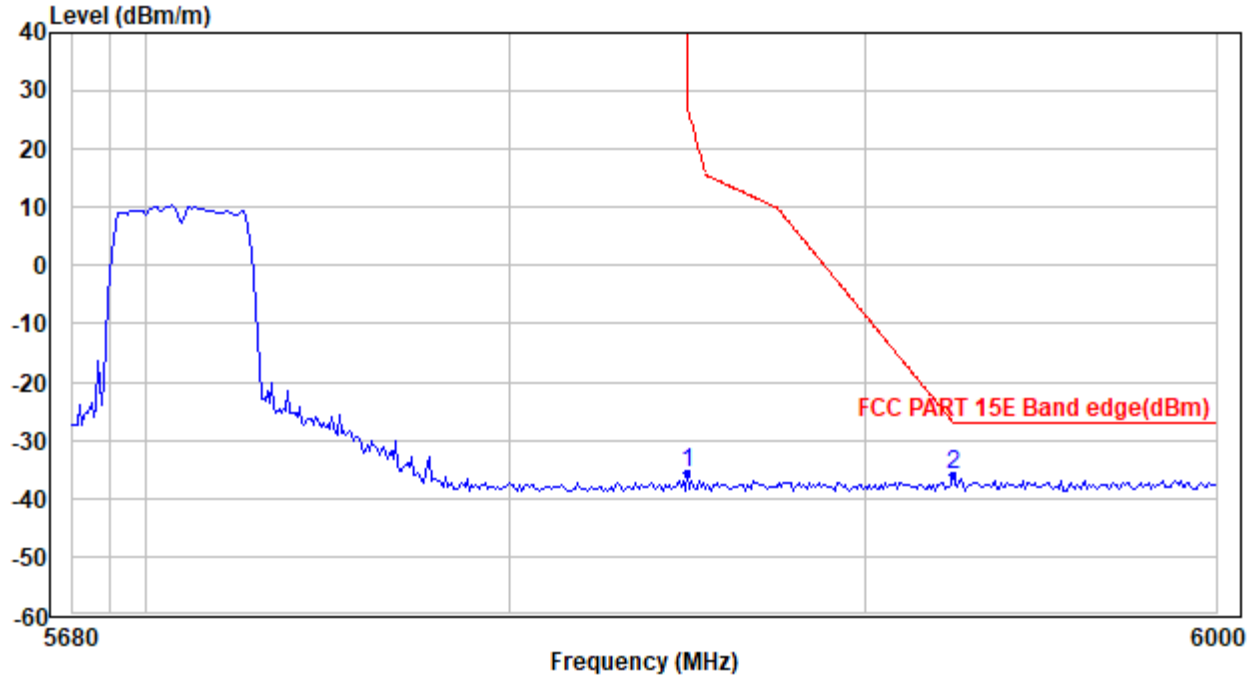
Frequency (MHz)	Peak level (dBuv/m)	Peak Limit (dBuv/m)	AV level (dBuv/m)	AV Limit (dBuv/m)	Conclusion
5460.000	57.70	68.20	42.81	54.00	PASS
5470.000	58.45	68.20	42.81	68.20	PASS

Test Channel:	Channel 142_U-NII-2C	Ant. Polar. :	Vertical



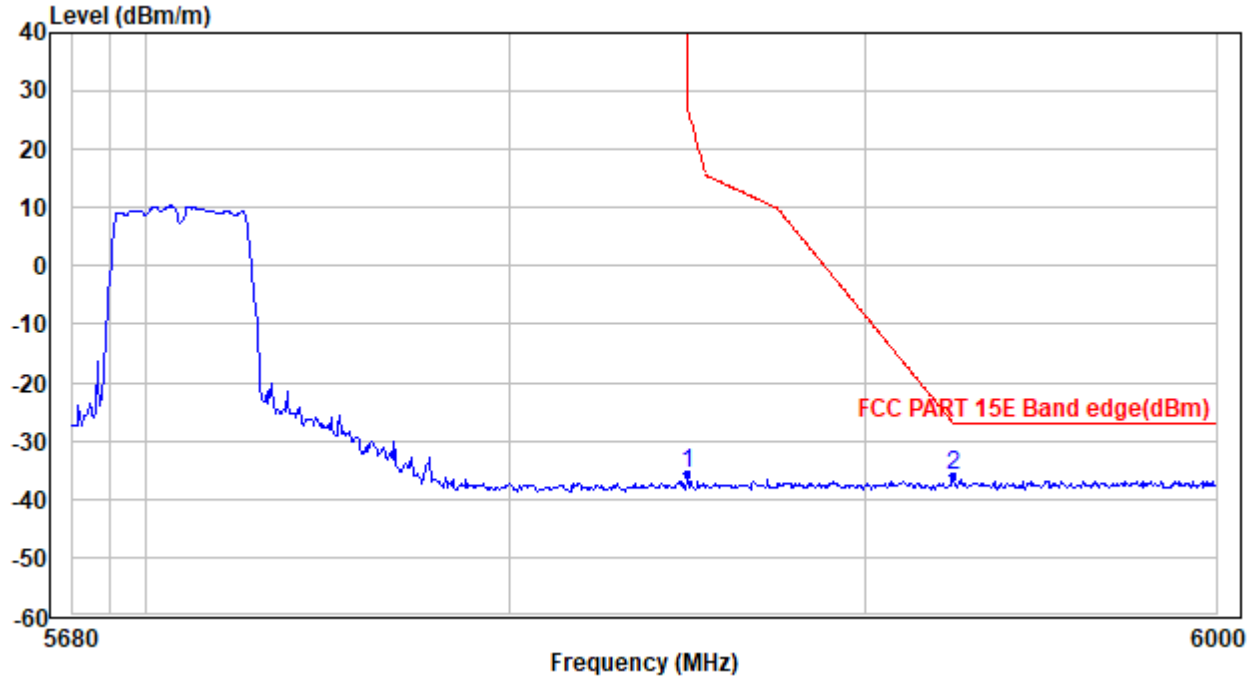
Frequency (MHz)	Peak level (dBuv/m)	Peak Limit (dBuv/m)	AV level (dBuv/m)	AV Limit (dBuv/m)	Conclusion
5460.000	57.88	68.20	42.71	54.00	PASS
5470.000	57.68	68.20	42.73	68.20	PASS

Test Channel:	Channel 142_U-NII-3	Ant. Polar. :	Horizontal



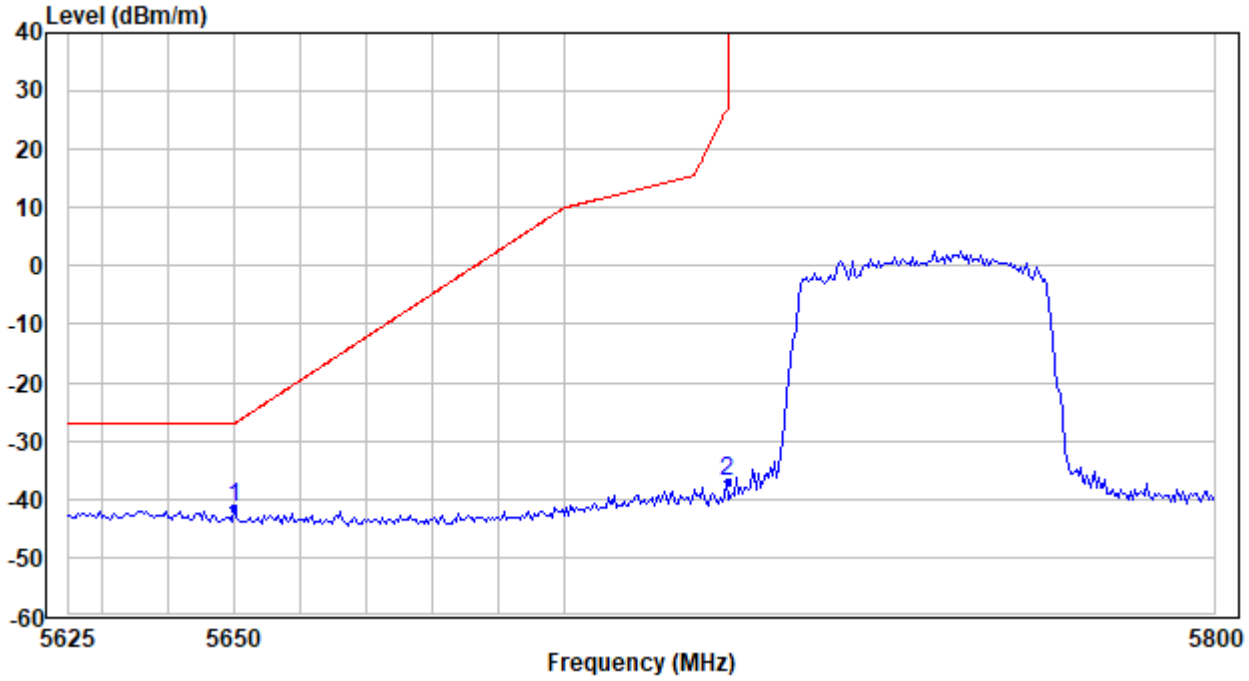
Frequency (MHz)	Peak level (dBm)	Peak Limit (dBm)	Conclusion
5850.000	-35.68	27.00	PASS
5925.000	-35.89	-27.00	PASS

Test Channel:	Channel 142_U-NII-3	Ant. Polar. :	Vertical



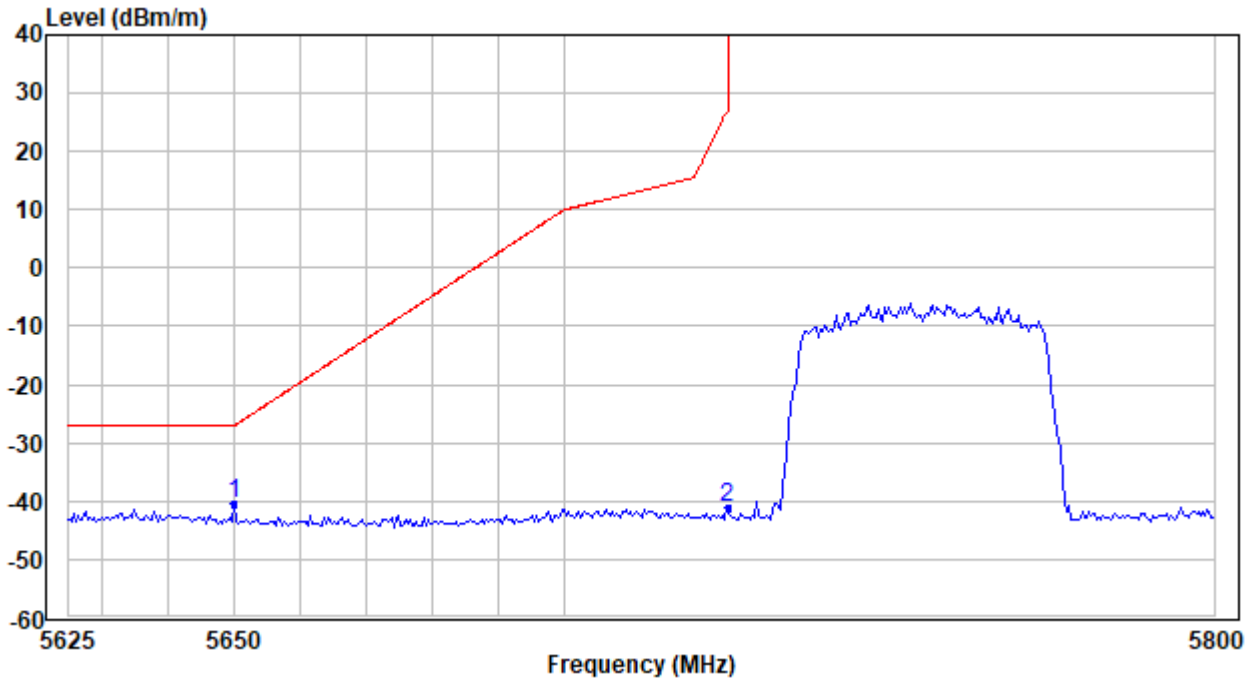
Frequency (MHz)	Peak level (dBm)	Peak Limit (dBm)	Conclusion
5850.000	-35.68	27.00	PASS
5925.000	-35.89	-27.00	PASS

Test Channel:	Channel 151	Ant. Polar. :	Horizontal



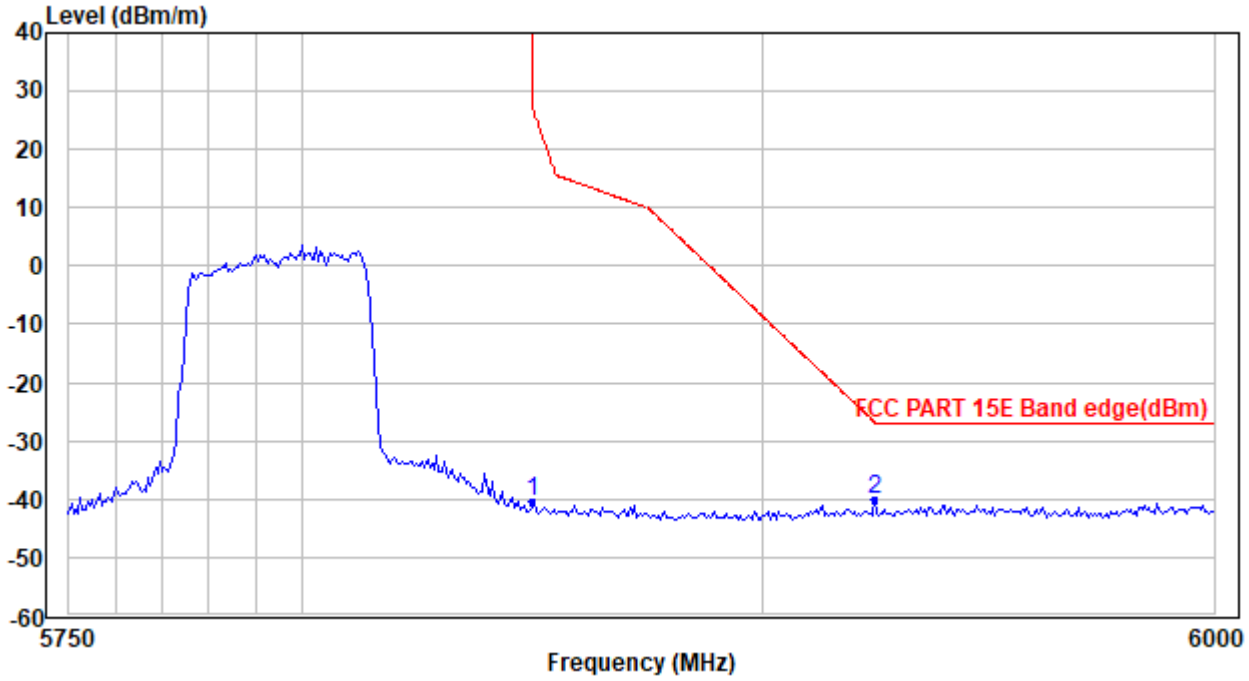
Frequency (MHz)	Peak level (dBm)	Peak Limit (dBm)	Conclusion
5650.000	-40.47	-27.00	Pass
5725.000	-36.93	27.00	Pass

Test Channel:	Channel 151	Ant. Polar. :	Vertical



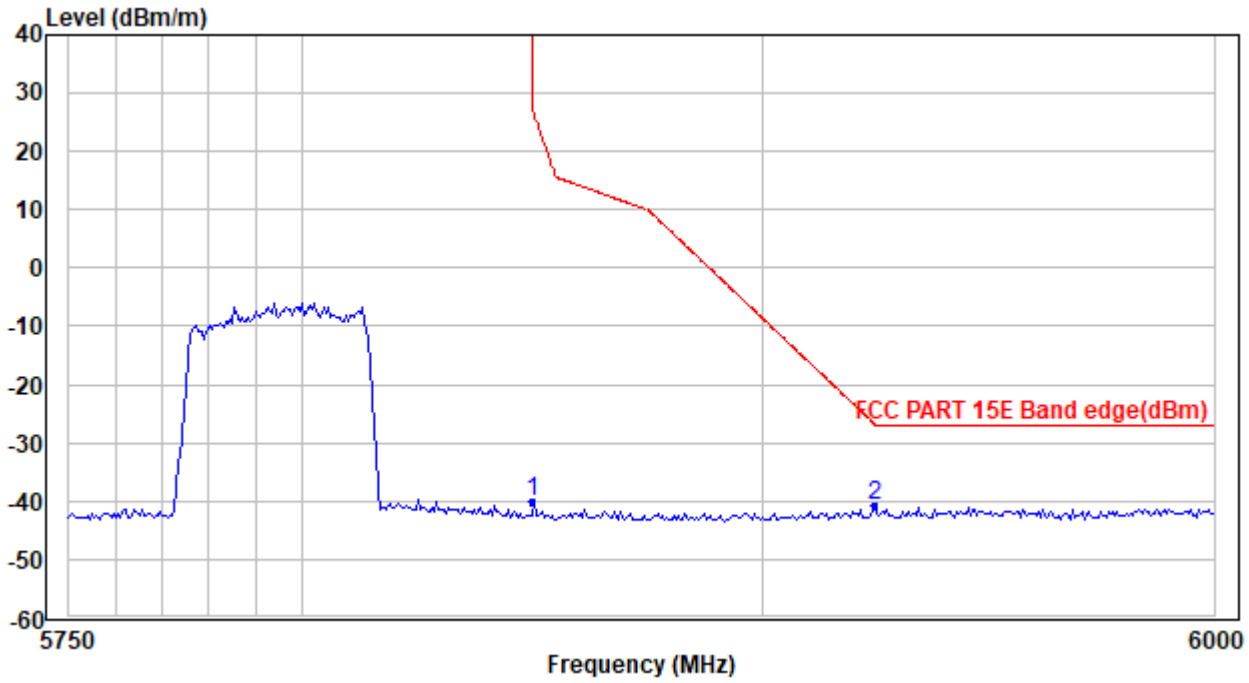
Frequency (MHz)	Peak level (dBm)	Peak Limit (dBm)	Conclusion
5650.000	-40.47	-27.00	Pass
5725.000	-41.12	27.00	Pass

Test Channel:	Channel 159	Ant. Polar. :	Horizontal



Frequency (MHz)	Peak level (dBm)	Peak Limit (dBm)	Conclusion
5850.000	-40.06	27.00	Pass
5925.000	-40.00	-27.00	Pass

Test Channel:	Channel 159	Ant. Polar. :	Vertical



Frequency (MHz)	Peak level (dBm)	Peak Limit (dBm)	Conclusion
5850.000	-40.06	27.00	Pass
5925.000	-40.61	-27.00	Pass

5.8 DYNAMIC FREQUENCY SELECTION

Test Requirement: FCC 47 CFR Part 15 Subpart E Section 15.407 (h)
RSS-247 Issue 3 Section 6.3

Test Method: KDB 905462 D03 Client Without DFS New Rules v01r02

EUT Operating Mode:

DFS Operational mode	Operating Frequency Range	
	5250 MHz to 5350 MHz	5470 MHz to 5725 MHz
Slave without radar Interference detection function	✓	✓

Applicability:

The following table from KDB905462 and the lists of the applicable requirements for the DFS testing.

Applicability of DFS Requirements Prior to Use of a Channel:

Requirement	Operational Mode		
	Master	Client Without Radar Detection	Client With Radar Detection
Non-Occupancy Period	✓	Not required	Yes
DFS Detection Threshold	✓	Not required	Yes
Channel Availability Check Time	✓	Not required	Not required
U-NII Detection Bandwidth	✓	Not required	Yes

Applicability of DFS requirements during normal operation:

Requirement	Operational Mode	
	Master Device or Client with Radar Detection	Client Without Radar Detection
DFS Detection Threshold	Yes	Not required
Channel Closing Transmission Time	Yes	Yes
Channel Move Time	Yes	Yes
U-NII Detection Bandwidth	Yes	Not required
Additional requirements for devices with multiple bandwidth modes	**Master Device or Client with Radar Detection**	**Client Without Radar Detection**
U-NII Detection Bandwidth and Statistical Performance Check	All BW modes must be tested	Not required
Channel Move Time and Channel Closing Transmission Time	Test using widest BW mode available	Test using the widest BW mode available for the link
All other tests	Any single BW mode	Not required
Note: Frequencies selected for statistical performance check (Section 7.8.4) should include several frequencies within the radar detection bandwidth and frequencies near the edge of the radar detection bandwidth. For 802.11 devices it is suggested to select frequencies in each of the bonded 20 MHz channels and the channel center frequency.		

DFS Detection Thresholds for Master Devices and Client Devices with Radar Detection:

Maximum Transmit Power	Value (See Notes 1, 2, and 3)
EIRP ≥ 200 milliwatt	-64 dBm
EIRP < 200 milliwatt and power spectral density < 10 dBm/MHz	-62 dBm
EIRP < 200 milliwatt that do not meet the power spectral density requirement	-64dBm

Note 1: This is the level at the input of the receiver assuming a 0 dBi receive antenna.
Note 2: Throughout these test procedures an additional 1 dB has been added to the amplitude of the test transmission waveforms to account for variations in measurement equipment. This will ensure that the test signal is at or above the detection threshold level to trigger a DFS response.
Note3: EIRP is based on the highest antenna gain. For MIMO devices refer to KDB Publication 662911 D01.

DFS Radar Signal Parameter Values:

Parameter	Value
Non-occupancy period	Minimum 30 minutes
Channel Availability Check Time	60 seconds
Channel Move Time	10 seconds (See Note 1.)
Channel Closing Transmission Time	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. (See Notes 1 and 2.)
U-NII Detection Bandwidth	Minimum 100% of the U-NII 99% transmission power bandwidth. (See Note 3.)

Note 1: Channel Move Time and the Channel Closing Transmission Time should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst.
Note 2: The Channel Closing Transmission Time is comprised of 200 milliseconds starting at the beginning of the Channel Move Time plus any additional intermittent control signals required to facilitate a Channel move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions.
Note 3: During the U-NII Detection Bandwidth detection test, radar type 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.

DFS Radar Signal Parameter:

Radar Type 0 was used in the evaluation of the Client device for the purpose of measuring the Channel Move Time and the Channel Closing Transmission Time

Table 1-Short Pulse Radar Test Waveforms

Radar Type	Pulse Width (μsec)	PRI (μsec)	Number of Pulses	Minimum Percentage of Successful Detection	Minimum Trials
0	1	1428	18	See Note 1.	See Note 1.
1	1	Test A Test B	$\text{Roundup}\left\{\begin{matrix}\left(\frac{1}{360}\right)\\ \left(\frac{19\cdot 10^6}{\text{PRI}_{\mu sec}}\right)\end{matrix}\right\}$	60%	30
2	1-5	150-230	23-29	60%	30
3	6-10	200-500	16-18	60%	30
4	11-20	200-500	12-16	60%	30
Aggregate (Radar Types 1-4)				80%	120

Note 1: Short Pulse Radar Type 0 should be used for the detection bandwidth test, channel move time, and channel closing time tests.

Test A: 15 unique PRI values randomly selected from the list of 23 PRI values in Table 5a
Test B: 15 unique PRI values randomly selected within the range of 518-3066 μsec, with a minimum increment of 1 μsec, excluding PRI values selected in Test A
A minimum of 30 unique waveforms are required for each of the Short Pulse Radar Types 2 through 4. If more than 30 waveforms are used for Short Pulse Radar Types 2 through 4, then each additional waveform must also be unique and not repeated from the previous waveforms.
If more than 30 waveforms are used for Short Pulse Radar Type 1, then each additional waveform is generated with Test B and must also be unique and not repeated from the previous waveforms in Tests A or B.
The aggregate is the average of the percentage of successful detections of short pulse radar types

1-4

Table 2-Long Pulse Radar Test Waveform

Radar Type	Pulse Width (μsec)	Chirp Width (MHz)	PRI (μsec)	Number of Pulses per Burst	Number of Bursts	Minimum Percentage of Successful Detection	Minimum Trials
5	50-100	5-20	1000-2000	1-3	8-20	80%	30

Table 3-Frequency Hopping Radar Test Waveform

Radar Type	Pulse Width (μsec)	PRI (μsec)	Pulses per Hop	Hopping Rate (kHz)	Hopping Sequence Length (msec)	Minimum Percentage of Successful Detection	Minimum Trials
6	1	333	9	0.333	300	70%	30

In-Service Monitoring: Channel Move Time, Channel Closing Transmission Time and Non-Occupancy Period

Limit of In-Service Monitoring:

Reference to DFS Radar Signal Parameter Values.

Test Procedures:

a) One frequency will be chosen from the Operating Channels of the EUT within the 5250-5350 MHz or 5470-5725 MHz bands. For 802.11 devices, the test frequency must contain control signals. This can be verified by disabling channel loading and monitoring the spectrum analyzer. If no control signals are detected, another frequency must be selected within the emission bandwidth where control signals are detected.

b) In case the EUT is a Master Device, a U-NII device operating as a Client Device will be used and it is assumed that the Client will associate with the EUT (Master). For radiated tests, the emissions of the Radar Waveform generator will be directed towards the Master Device. If the Master Device has antenna gain, the main beam of the antenna will be directed toward the radar emitter. Vertical polarization is used for testing.

c) The TCP protocol unicast data stream was generated by the iperf software command line with at least 17% activity ratio over any 100ms period.

d) Timing plots are reported with calculations demonstrating a minimum channel loading of approximately 17% or greater. For example, channel loading can be estimated by setting the spectrum analyzer for zero span and approximate the Time On/ (Time On + Off Time).

e) At time T0 the Radar Waveform generator sends a Burst of pulses for one of the Short Pulse Radar Types 1-4 at DFS Detection Threshold levels on the Operating Channel. An additional 1 dB is added to the radar test signal to ensure it is at or above the DFS Detection Threshold, accounting for equipment variations/errors.

f) Observe the transmissions of the EUT at the end of the radar Burst on the Operating Channel for duration greater than 10 seconds. Measure and record the transmissions from the EUT during the observation time (Channel Move Time). Measure and record the Channel Move Time and Channel Closing Transmission Time if radar detection occurs.

g) When operating as a Master Device, monitor the EUT for more than 30 minutes following instant T2 to verify that the EUT does not resume any transmissions on this Channel. Perform this test once and record the measurement result.

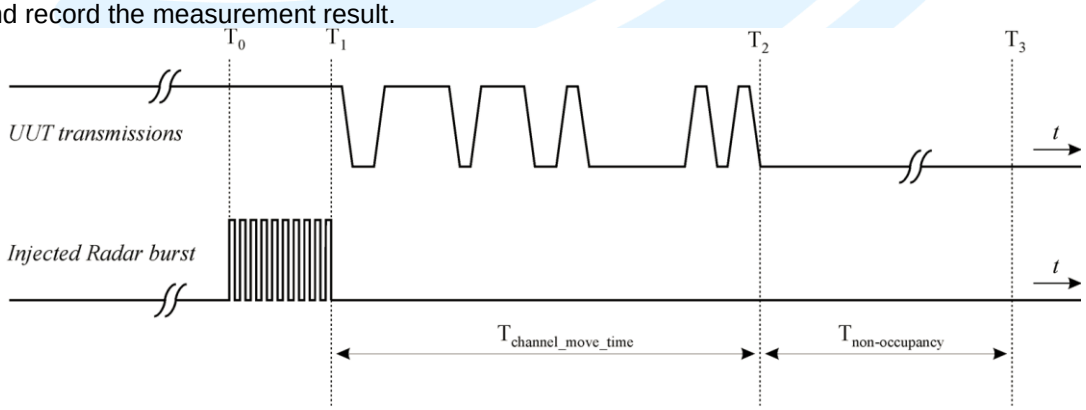
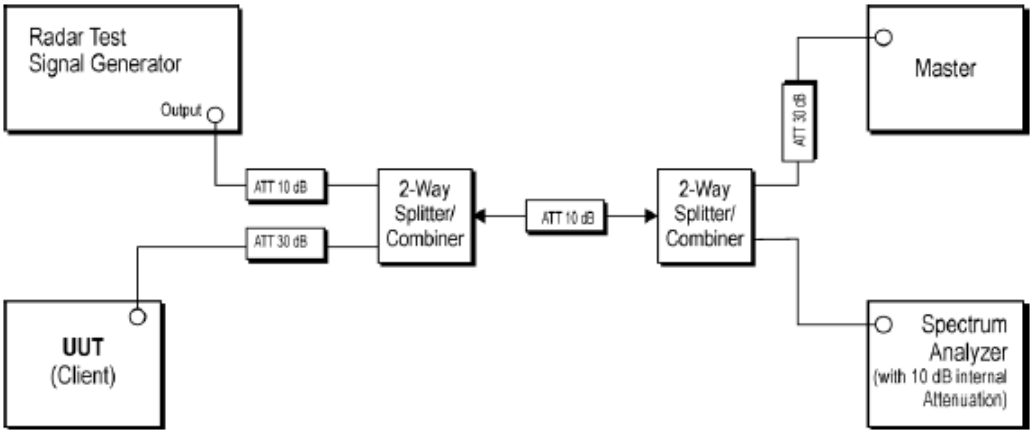


Figure 17: Channel Closing Transmission Time, Channel Move Time and Non-Occupancy Period

Conducted test setup



Setup for Client with injection at the Master

Equipment Used: Refer to section 3 for details.

Test Result: Result of Channel Move Time, Channel Closing Transmission Time and Non-Occupancy Period for Client Beacon Tes

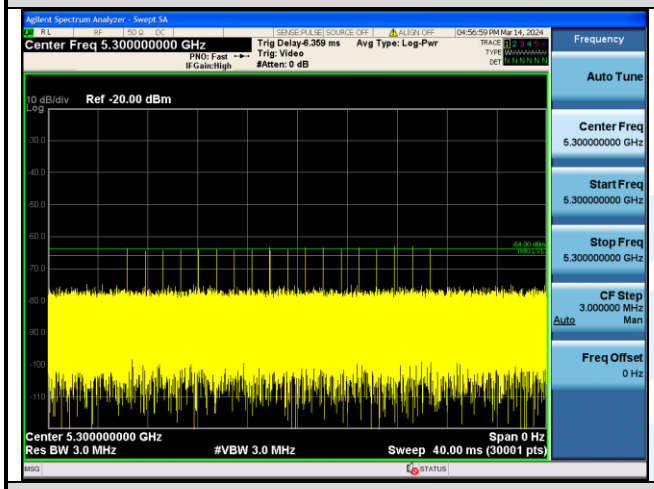
The measurement data as follows:

BW / Channel	Test Item	Test Result	Limit	Pass/Fail
20 MHz / 5300 MHz	Channel Move Time	0.9764 s	< 10s	Pass
	Channel Closing Transmission Time	5.4 ms	< 200+60ms	Pass
	Non-Occupancy Period	No transmission	30 minutes	Pass
20 MHz / 5500 MHz	Channel Move Time	1.0488 s	< 10s	Pass
	Channel Closing Transmission Time	9.3 ms	< 200+60ms	Pass
	Non-Occupancy Period	No transmission	30 minutes	Pass
40MHz / 5310 MHz	Channel Move Time	1.0272 s	< 10s	Pass
	Channel Closing Transmission Time	8.7 ms	< 200+60ms	Pass
	Non-Occupancy Period	No transmission	30 minutes	Pass
40MHz / 5510 MHz	Channel Move Time	1.0082 s	< 10s	Pass
	Channel Closing Transmission Time	9.9 ms	< 200+60ms	Pass
	Non-Occupancy Period	No transmission	30 minutes	Pass

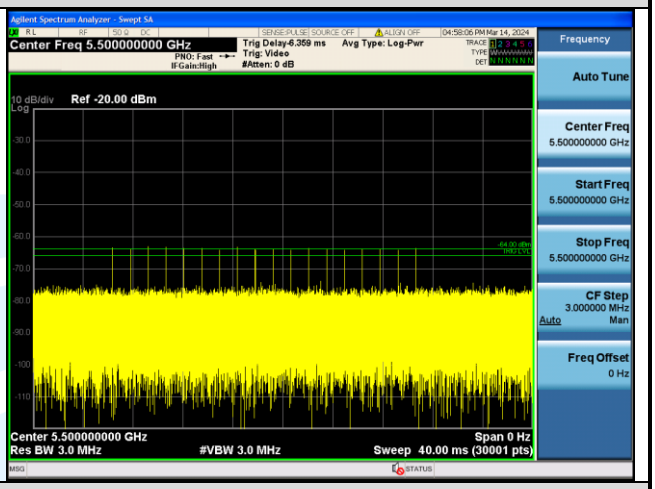
Radar Waveform calibration Plot

Reference DFS test signal

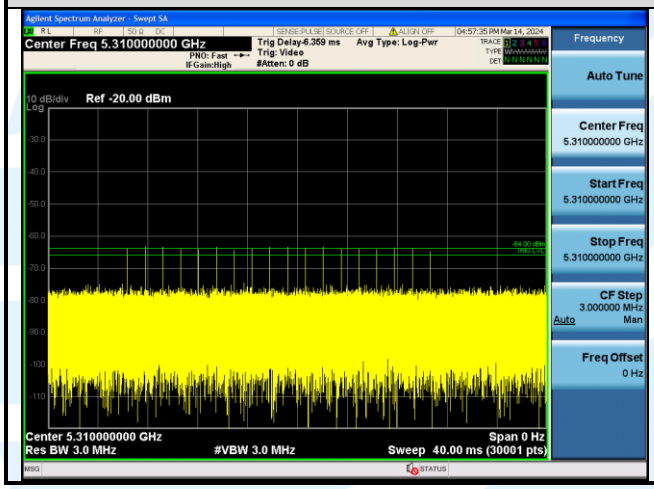
5300 MHz



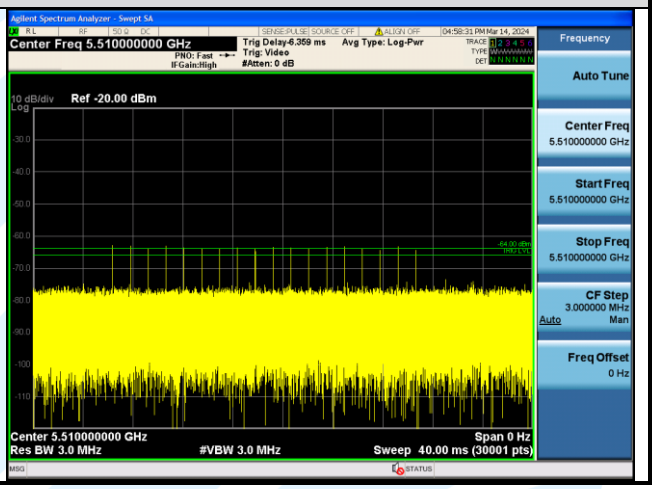
5500 MHz



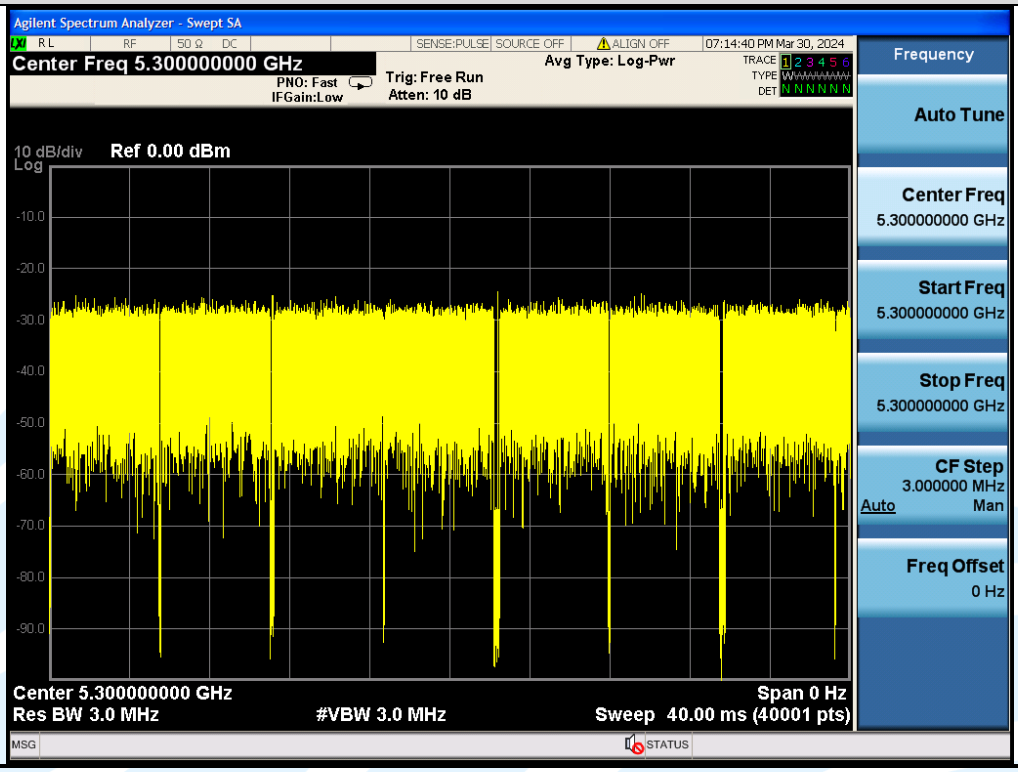
5310 MHz



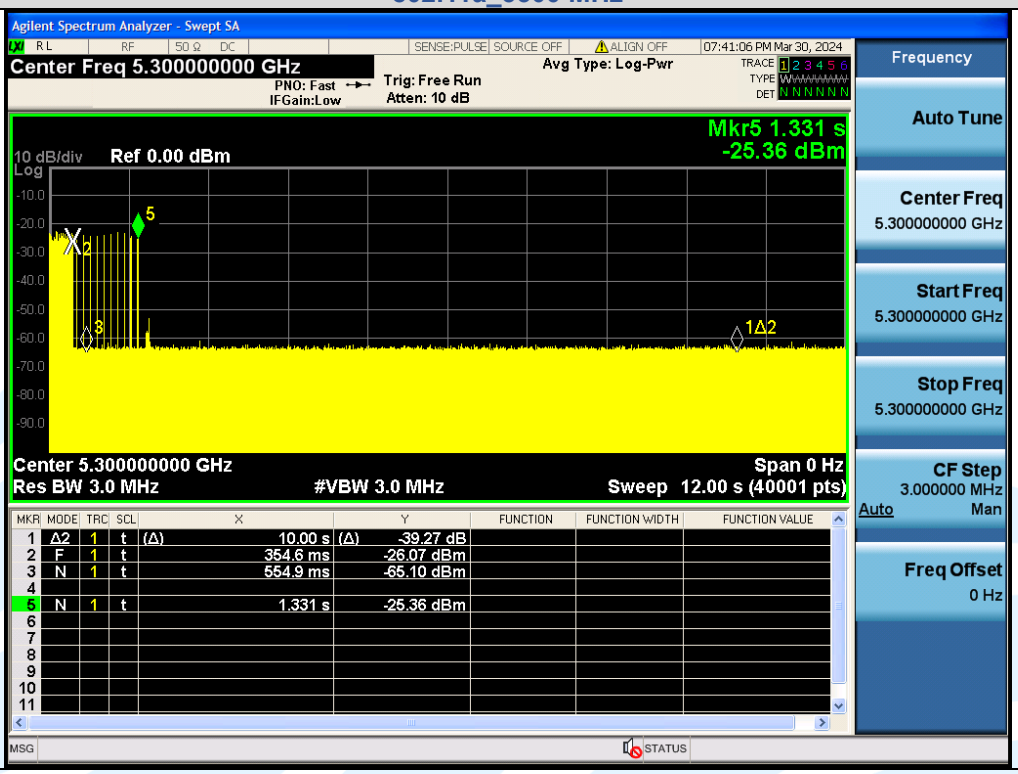
5510 MHz



Data Traffic Plot



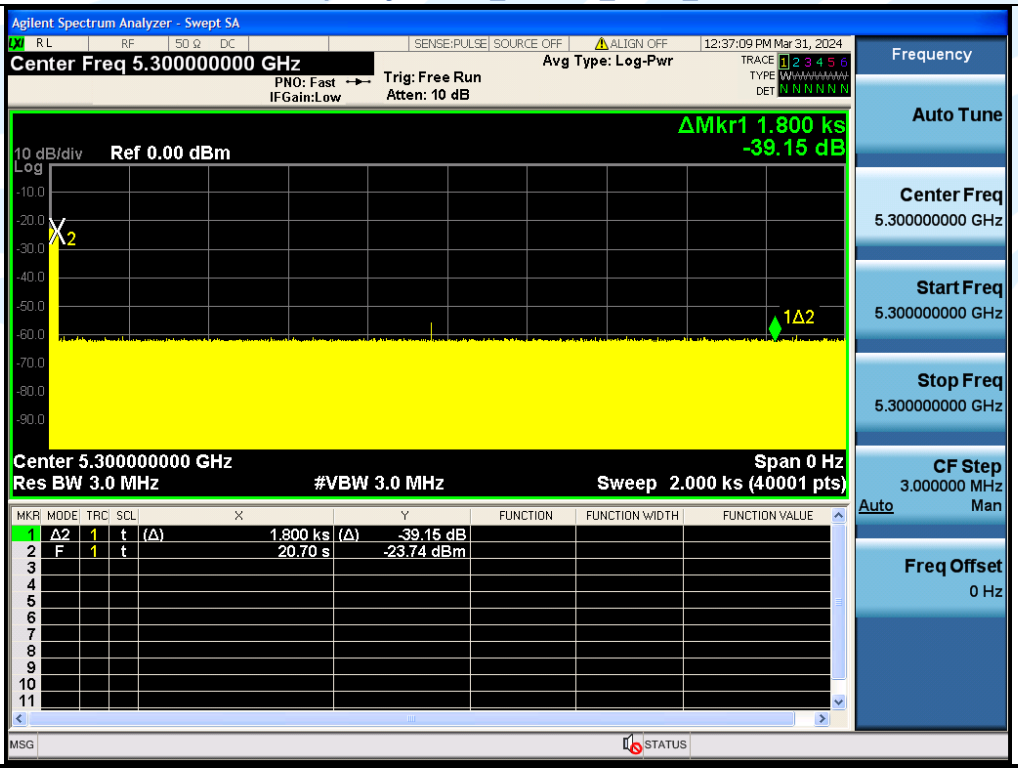
Channel Move Time & Channel Closing Transmission Time
802.11a_5300 MHz



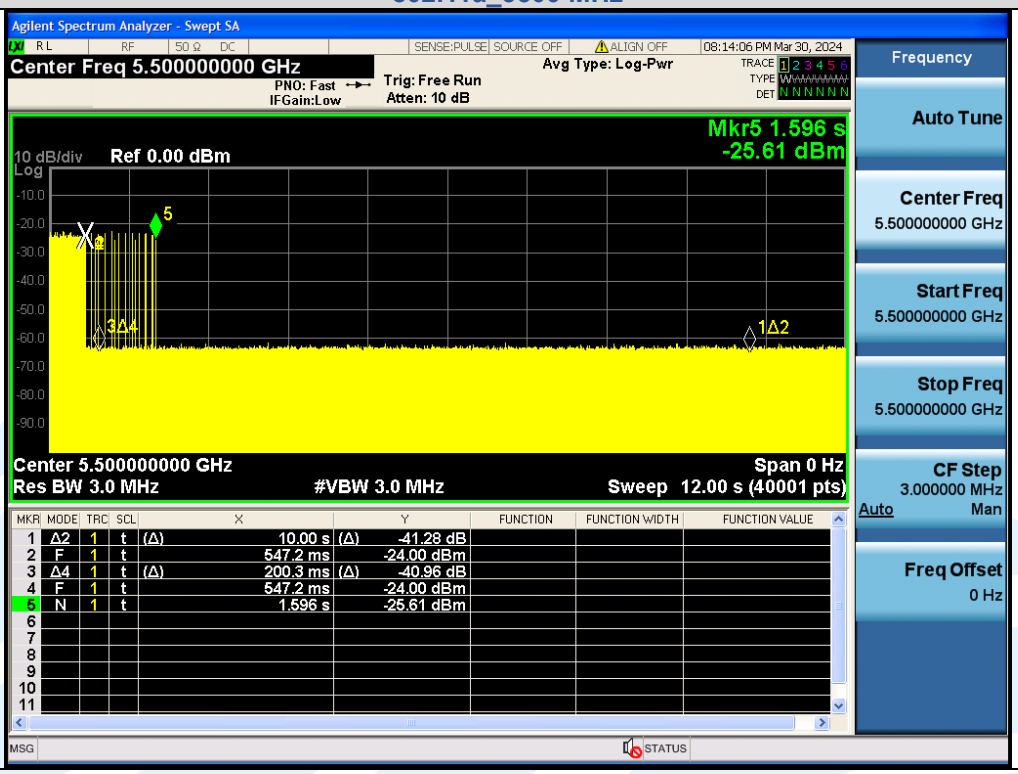
Note:

1) Mark1 Time: 354.6 ms, Mark2 Time: 10354.6 ms,Ontime Points: 18
2) Dwell = S/B = 12000 ms/40001 = 0.3 ms, C = N x Dwell = 18 x 0.3 = 5.4 ms
3) CMT =1.331s – 0.3546 s = 0.9764 s

Non-Occupancy Period_802.11a_CH60_5300 MHz



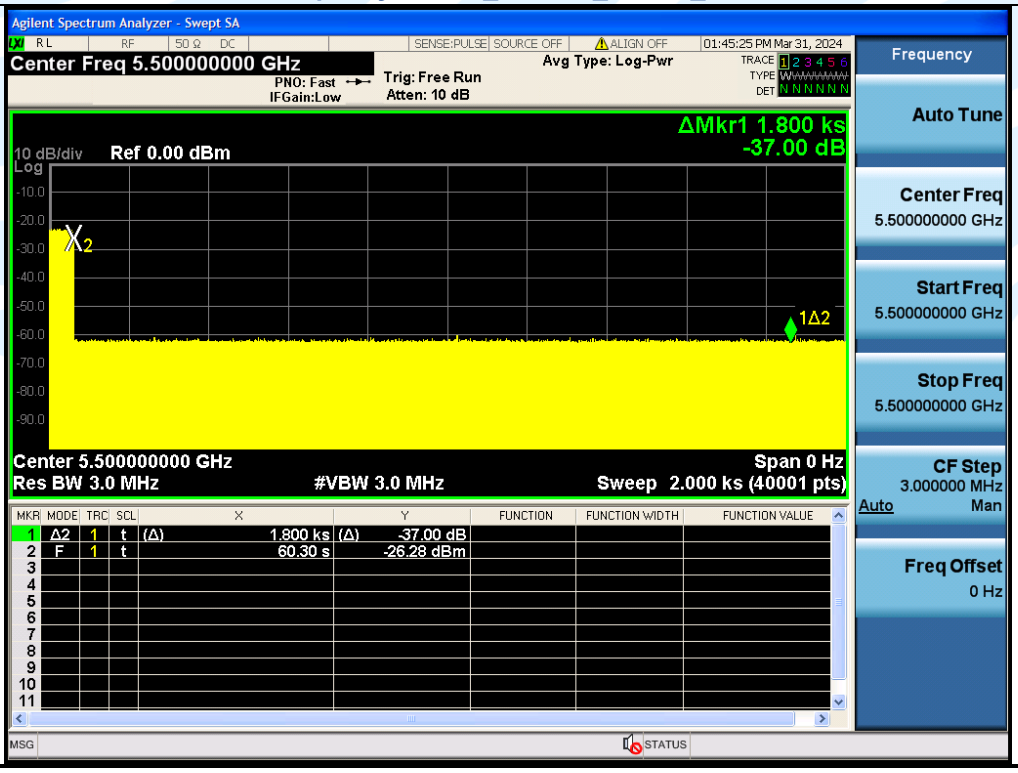
Channel Move Time & Channel Closing Transmission Time
802.11a_5500 MHz



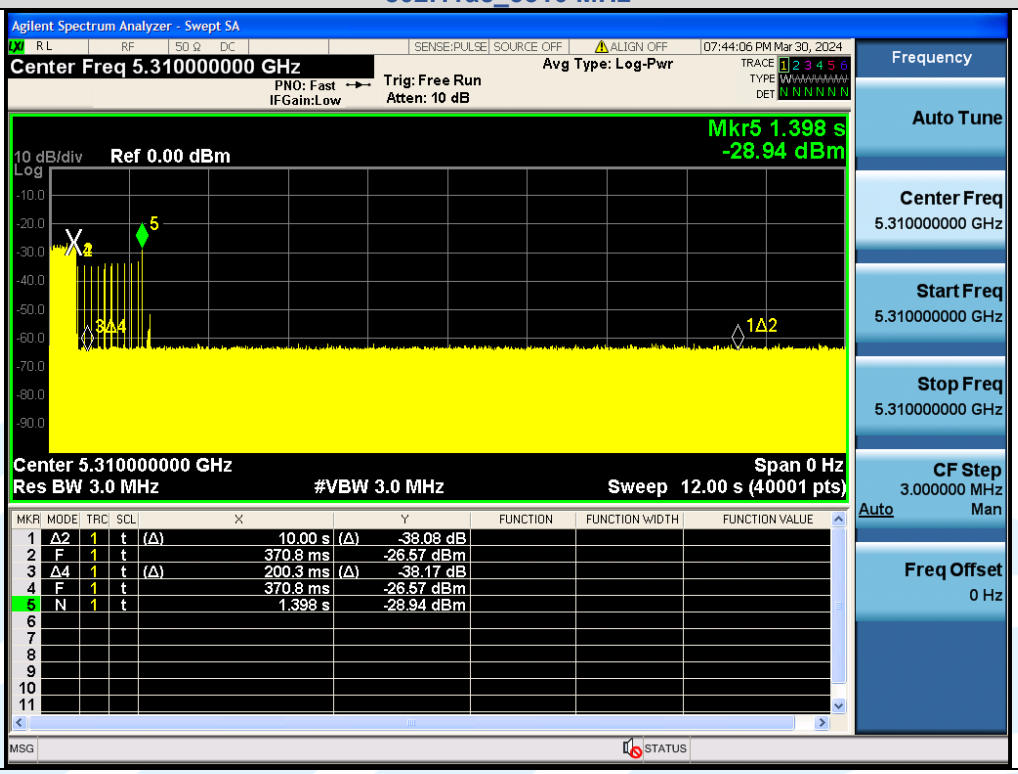
Note:

4) Mark1 Time: 547.2 ms, Mark2 Time: 10547.2 s,Ontime Points: 31
5) Dwell = S/B = 12000 ms/40001 = 0.3 ms, C = N x Dwell = 31 x 0.3 = 9.3 ms
6) CMT = 1.596 s – 0.5472s = 1.0488 s

Non-Occupancy Period_802.11a_CH100_5500 MHz



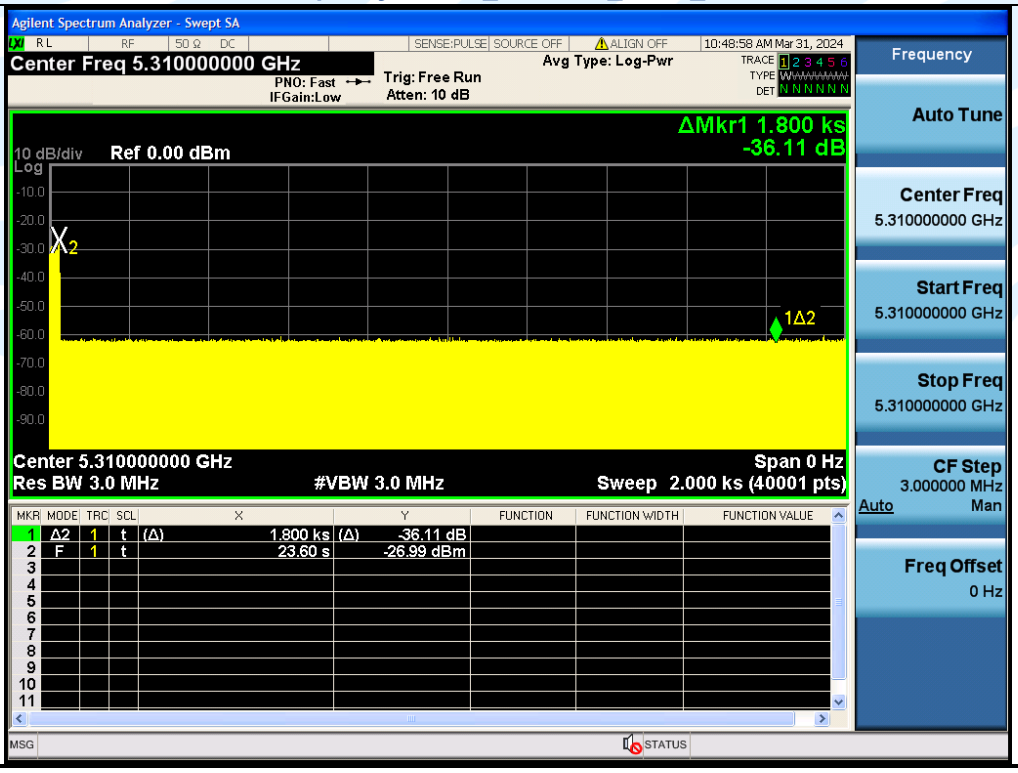
Channel Move Time & Channel Closing Transmission Time
802.11ac_5310 MHz



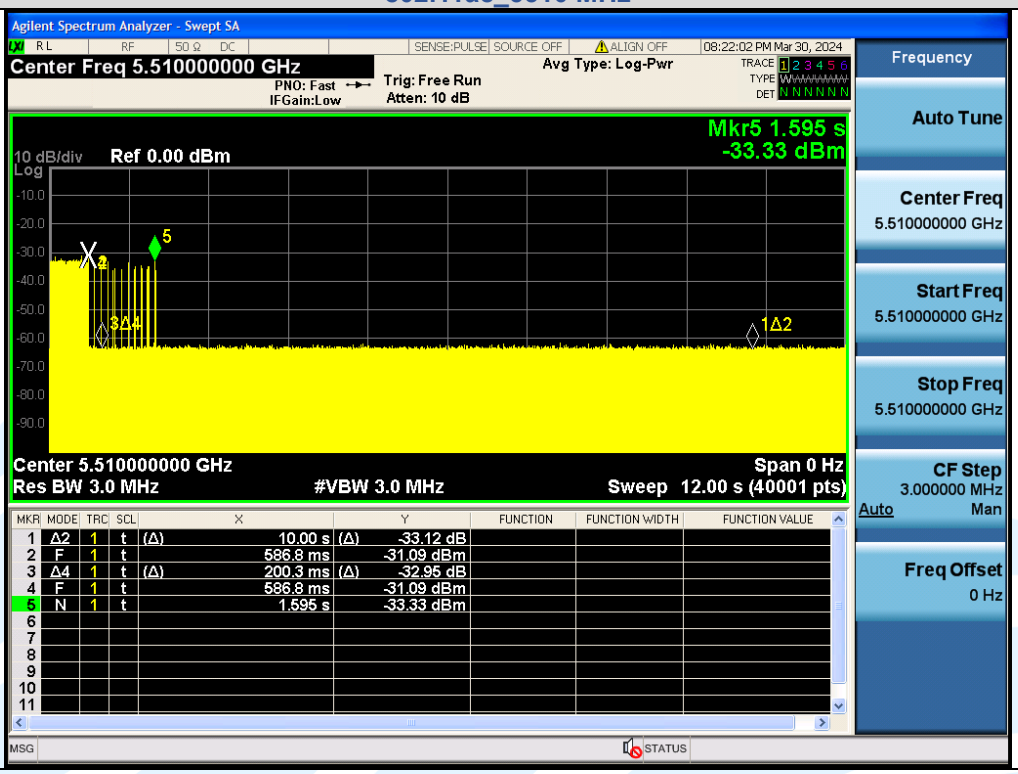
Note:

7) Mark1 Time: 370.8 ms, Mark2 Time: 10370.8 ms,Ontime Points: 29
8) Dwell = S/B = 12000 ms/40001 = 0.3 ms, C = N x Dwell = 29 x 0.3 = 8.7 ms
9) CMT = 1.398 s – 0.3708 s =1.0272 s

Non-Occupancy Period_802.11ac_CH58_5310 MHz



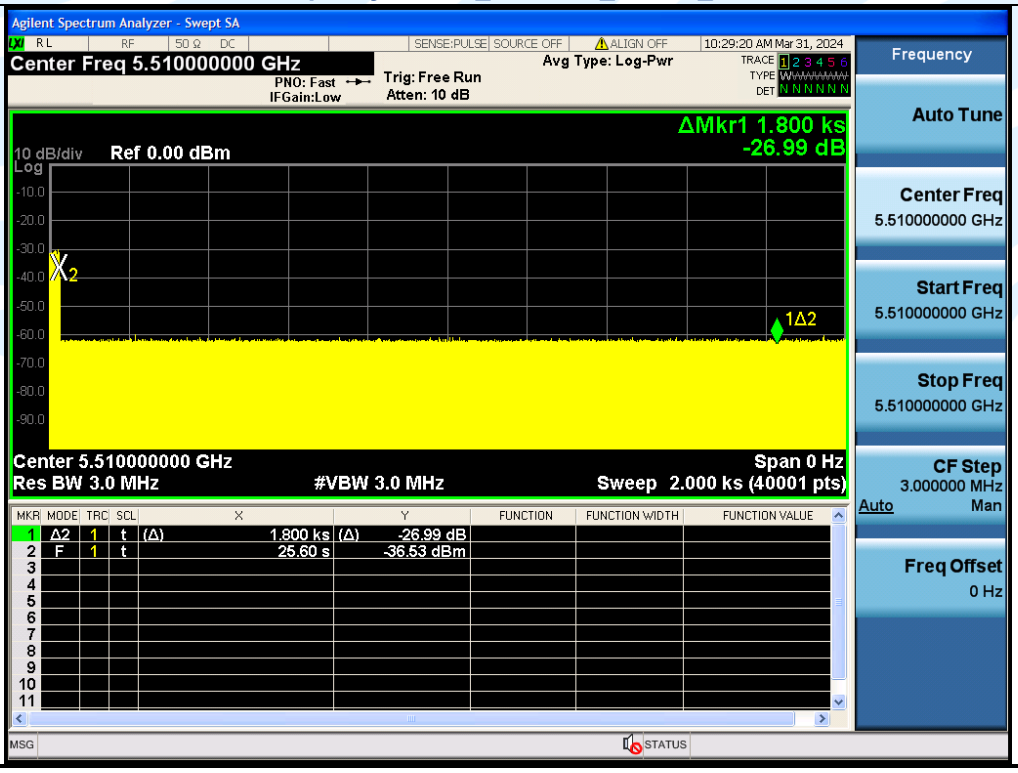
Channel Move Time & Channel Closing Transmission Time
802.11ac_5510 MHz



Note:

10) Mark1 Time: 586.8 ms, Mark2 Time: 10586.8 ms,Ontime Points: 33
11) Dwell = S/B = 12000 ms/40001 = 0.3 ms, C = N x Dwell = 33 x 0.3 = 9.9 ms
12) CMT = 1.595 s –0.5868 s = 1.0082 s

Non-Occupancy Period_802.11ac_CH106_5510 MHz



5.9 AC POWER LINE CONDUCTED EMISSION

Test Requirement: FCC 47 CFR Part 15 Subpart E Section 15.407 (b)(6)
FCC 47 CFR Part 15 Subpart C Section 15.207
RSS-Gen Issue 5, Section 8.8

Test Method: ANSI C63.10-2013, Section 6.2.

Limits:

Frequency range (MHz)	Limits (dB(μV)	
	Quasi-peak	Average
0,15 to 0,50	66 to 56	56 to 46
0,50 to 5	56	46
5 to 30	60	50

Remark:

1. The lower limit shall apply at the transition frequencies.
2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 to 0.50 MHz.

Test Setup: Refer to section 4.5.2 for details.

Test Procedures:

Test frequency range :150KHz-30MHz

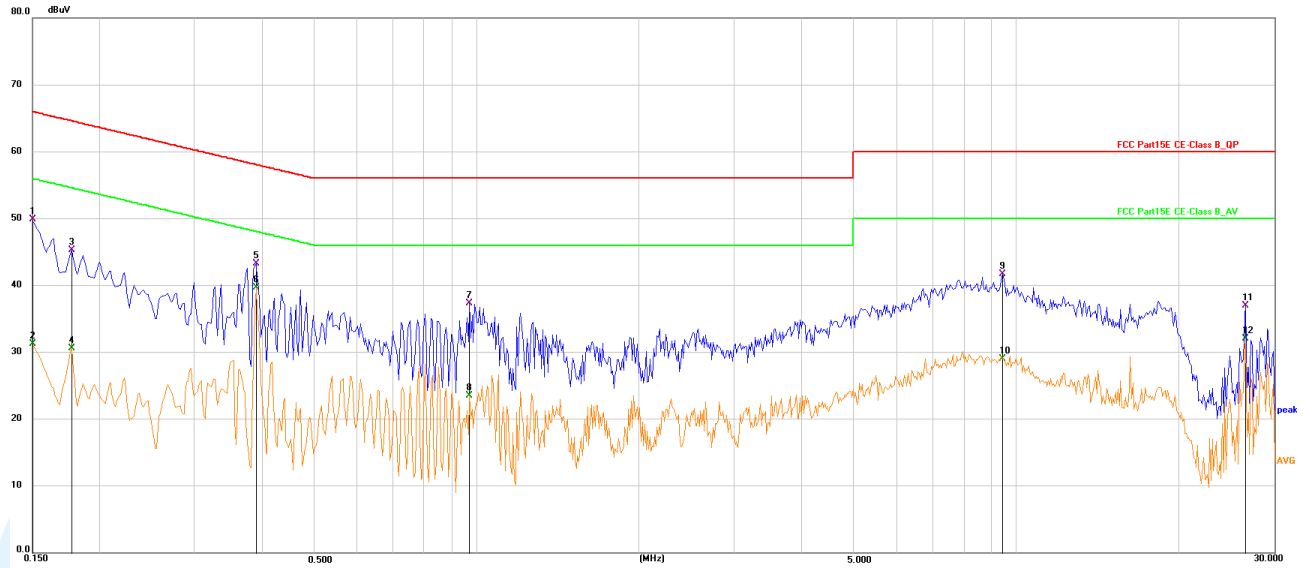
1) The mains terminal disturbance voltage test was conducted in a shielded room.
2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50Ω/50μH + 5Ω linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.
3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane,
4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.
5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.

Equipment Used: Refer to section 3 for details.

Test Result: Pass

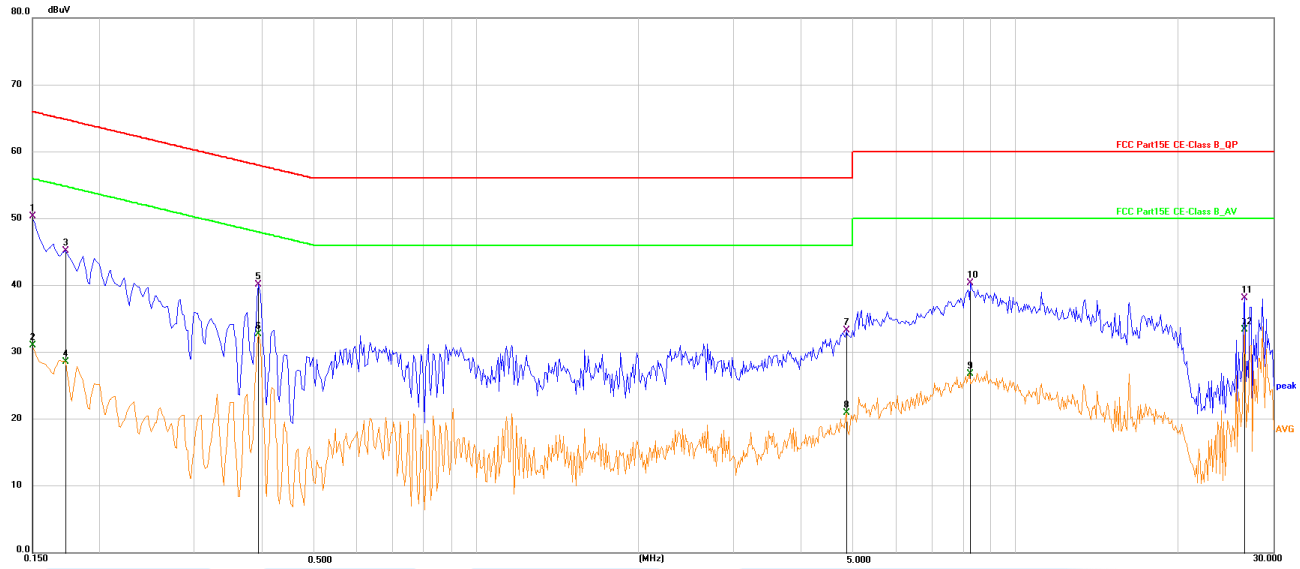
The measurement data as follows:
Quasi Peak and Average:
Mode: WIFI Link

Live Line



No.	Frequency (MHz)	Reading (dBμV)	Correction factor (dB)	Result (dBμV)	Limit (dBμV)	Margin (dB)	Detector
1	0.1500	39.62	10.20	49.82	66.00	-16.18	QP
2	0.1500	21.04	10.20	31.24	56.00	-24.76	AVG
3	0.1770	35.06	10.18	45.24	64.63	-19.39	QP
4	0.1770	20.39	10.18	30.57	54.63	-24.06	AVG
5	0.3885	33.08	10.13	43.21	58.10	-14.89	QP
6	0.3885	29.50	10.13	39.63	48.10	-8.47	AVG
7	0.9690	27.03	10.33	37.36	56.00	-18.64	QP
8	0.9690	13.17	10.33	23.50	46.00	-22.50	AVG
9	9.4245	31.19	10.49	41.68	60.00	-18.32	QP
10	9.4245	18.51	10.49	29.00	50.00	-21.00	AVG
11	26.6100	26.11	10.85	36.96	60.00	-23.04	QP
12	26.6100	21.22	10.85	32.07	50.00	-17.93	AVG

Neutral Line



No.	Frequency (MHz)	Reading (dBμV)	Correction factor (dB)	Result (dBμV)	Limit (dBμV)	Margin (dB)	Detector
1	0.1500	40.13	10.19	50.32	66.00	-15.68	QP
2	0.1500	20.87	10.19	31.06	56.00	-24.94	AVG
3	0.1725	35.07	10.14	45.21	64.84	-19.63	QP
4	0.1725	18.45	10.14	28.59	54.84	-26.25	AVG
5	0.3930	29.94	10.19	40.13	58.00	-17.87	QP
6	0.3930	22.56	10.19	32.75	48.00	-15.25	AVG
7	4.8525	23.02	10.27	33.29	56.00	-22.71	QP
8	4.8525	10.61	10.27	20.88	46.00	-25.12	AVG
9	8.2094	16.41	10.34	26.75	50.00	-23.25	AVG
10	8.2635	30.01	10.34	40.35	60.00	-19.65	QP
11	26.6100	27.26	10.82	38.08	60.00	-21.92	QP
12	26.6100	22.55	10.82	33.37	50.00	-16.63	AVG

Remark:

1. Correct Factor = LISN Factor + Cable Loss + Pulse Limiter Factor, the value was added to Original Receiver Reading by the software automatically.
2. Result = Reading + Correct Factor.
3. Margin = Result - Limit
4. An initial pre-scan was performed on the Phase and neutral lines with peak detector. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.

APPENDIX A RF TEST DATA

A.1 99% BANDWIDTH

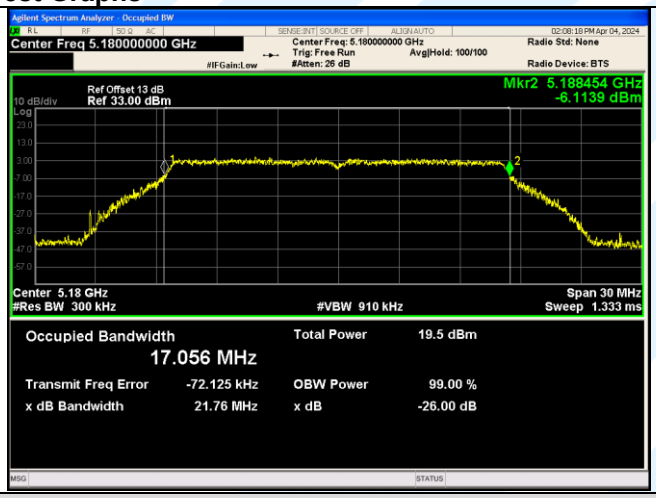
For U-NII-1, U-NII-2A, U-NII-2C band

Mode	Channel	RU & Index	Ant.	99% BW (MHz)
IEEE 802.11a	36	N/A	0	17.056
	44			17.088
	48			17.068
	52			17.125
	60			17.086
	64			17.076
	100			17.132
	116			17.080
	140			17.118
	144			17.096
IEEE 802.11n_20	36			18.123
	44			18.083
	48			18.107
	52			18.128
	60			18.125
	64			18.117
	100			18.158
	116			18.127
	140			18.119
	144			18.087
IEEE 802.11n_40	38			36.461
	46			36.497
	54			36.477
	62			36.450
	102			36.477
	110			36.486
	134			36.480
	142			36.452
IEEE 802.11ac_20	36			18.100
	44			18.101
	48			18.148
	52			18.045
	60			18.173
	64			18.131
	100			18.107
	116			18.139
	140			18.103
	144			18.161
IEEE 802.11ac_40	38			36.454
	46			36.484
	54			36.443
	62			36.462
	102			36.467
	110			36.458
	134			36.453
	142			36.460
IEEE 802.11ax_20	36	SU		19.158
	44			19.151
	48			19.152
	52			19.149
	60			19.134
	64			19.139
	100			19.108
	116			19.133
	140			19.175
	144			19.175

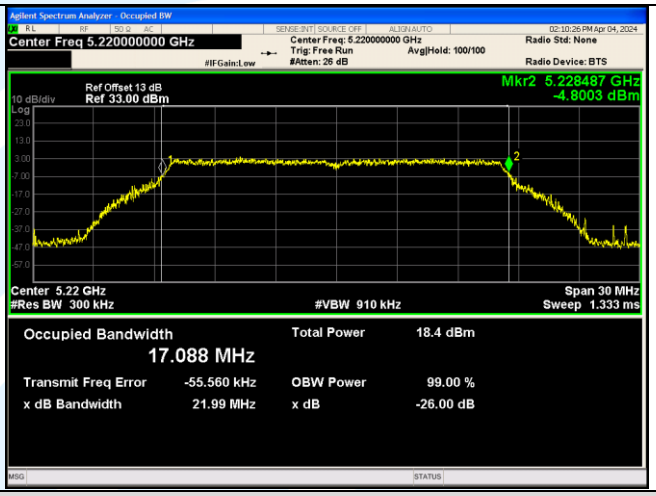
IEEE 802.11ax_40	38			37.819
	46			37.923
	54			37.842
	62			37.851
	102			37.891
	110			37.953
	134			37.857
	142			37.866

Mode	Channel	RU & Index	Ant.	99% BW (MHz)
IEEE 802.11a	144	N/A	0	13.511
IEEE 802.11n_20				14.021
IEEE 802.11n_40	142			33.000
IEEE 802.11ac_20	144			14.063
IEEE 802.11ac_40	142			33.042
IEEE 802.11ax_20	144	SU		14.497
IEEE 802.11ax_40	142			33.695

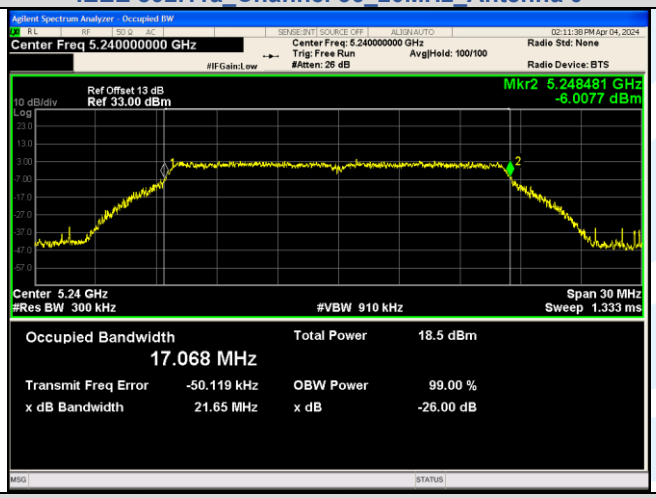
Test Graphs



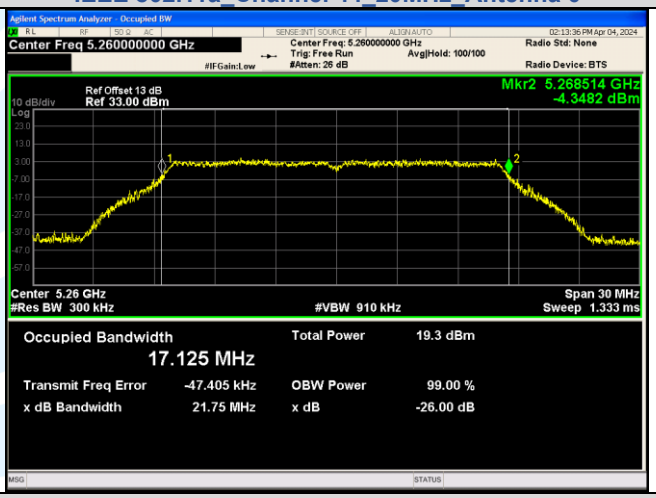
IEEE 802.11a_Channel 36_20MHz_Antenna 0



IEEE 802.11a_Channel 44_20MHz_Antenna 0



IEEE 802.11a_Channel 48_20MHz_Antenna 0



IEEE 802.11a_Channel 52_20MHz_Antenna 0