802.11ax-HT40

Channel 38

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17725.000	54.02	-25.74	45.95	33.81	74.00	19.98	V
17968.100	53.49	-25.50	46.66	32.33	74.00	20.51	H
13710.000	50.47	-29.10	40.86	38.70	68.30	17.83	V
13650.000	50.12	-29.50	40.43	39.19	68.30	18.18	V
5119.800	51.86	-27.61	33.67	45.80	74.00	22.14	V
5001.300	51.78	-28.10	33.42	46.46	74.00	22.22	H

Channel 46

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17973.000	54.07	-25.50	46.66	32.91	74.00	19.93	H
17934.500	53.64	-25.50	46.66	32.48	74.00	20.36	H
13716.600	50.78	-29.10	40.86	39.01	68.30	17.52	H
12913.600	50.45	-30.49	39.24	41.70	68.30	17.85	V
11422.000	48.22	-32.42	38.79	41.85	74.00	25.78	H
9099.900	47.78	-33.76	38.13	43.41	74.00	26.22	V

Channel 54

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17389.500	53.49	-26.85	45.25	35.09	68.30	14.81	H
17947.800	53.48	-25.50	46.66	32.32	74.00	20.52	V
14196.200	50.57	-28.99	42.00	37.55	68.30	17.73	V
13773.800	50.17	-29.10	40.86	38.40	68.30	18.13	V
11860.400	47.84	-31.85	39.05	40.64	74.00	26.16	V
11890.600	47.78	-31.85	39.05	40.58	74.00	26.22	H

Channel 62

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17997.800	54.29	-25.50	46.66	33.13	74.00	19.71	H
17308.100	53.71	-25.95	44.35	35.30	68.30	14.59	H
14195.100	50.66	-28.99	42.00	37.64	68.30	17.64	V
13634.600	50.46	-29.50	40.43	39.53	68.30	17.84	V
5353.500	52.71	-27.43	34.01	46.13	74.00	21.29	H
5386.300	52.62	-27.36	34.09	45.90	74.00	21.38	V

Channel 102

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17957.700	53.76	-25.50	46.66	32.60	74.00	20.24	H
17969.800	53.61	-25.50	46.66	32.45	74.00	20.39	H
13633.500	51.06	-29.50	40.43	40.13	68.30	17.24	H
13748.500	50.63	-29.10	40.86	38.86	68.30	17.67	V
5453.400	54.02	-27.18	34.17	47.03	74.00	19.98	V
5468.800	55.11	-27.18	34.17	48.12	68.30	13.19	H

Channel 118

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17990.100	54.75	-25.50	46.66	33.59	74.00	19.25	H
17968.100	53.73	-25.50	46.66	32.57	74.00	20.27	H
13747.400	50.95	-29.10	40.86	39.18	68.30	17.35	H
14583.400	50.65	-27.29	41.90	36.04	68.30	17.65	H
11880.700	48.78	-31.85	39.05	41.58	74.00	25.22	V
11897.200	48.45	-31.85	39.05	41.25	74.00	25.55	H

Channel 134

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17997.200	53.98	-25.50	46.66	32.82	74.00	20.02	V
17682.100	53.69	-25.74	45.95	33.48	68.30	14.61	H
13583.500	50.53	-29.50	40.43	39.60	68.30	17.77	H
14481.600	50.23	-28.59	42.46	36.36	74.00	23.77	V
5811.700	53.60	-27.07	34.33	46.34	68.30	14.70	H
5762.500	53.46	-27.07	34.33	46.20	68.30	14.84	V

Channel 142

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17965.900	53.97	-25.50	46.66	32.81	74.00	20.03	V
17602.900	53.58	-25.74	45.95	33.37	68.30	14.72	H
14176.400	50.71	-28.99	42.00	37.69	68.30	17.59	H
14103.200	50.51	-29.44	41.66	38.29	68.30	17.79	H
11784.500	48.03	-31.99	38.98	41.04	74.00	25.97	H
11830.700	47.95	-31.85	39.05	40.75	74.00	26.05	V

802.11ax-HT80

Channel 42

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17930.200	54.37	-25.50	46.66	33.21	74.00	19.63	H
17813.000	54.18	-25.50	46.66	33.02	74.00	19.82	H
13625.900	51.59	-29.50	40.43	40.66	68.30	16.71	V
13715.500	51.40	-29.10	40.86	39.63	68.30	16.90	H
5111.000	53.81	-27.70	33.59	47.92	74.00	20.19	H
5138.000	53.45	-27.61	33.67	47.39	74.00	20.55	V

Channel 58

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17967.500	54.40	-25.50	46.66	33.24	74.00	19.60	H
17202.500	54.27	-26.60	43.36	37.51	68.30	14.03	V
13745.200	50.95	-29.10	40.86	39.18	68.30	17.35	V
13653.400	50.93	-29.50	40.43	40.00	68.30	17.37	H
5367.900	54.26	-27.43	34.01	47.68	74.00	19.74	V
5363.400	54.24	-27.43	34.01	47.66	74.00	19.76	V

Channel 106

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17380.700	53.87	-25.95	44.35	35.46	68.30	14.43	V
17954.300	53.82	-25.50	46.66	32.66	74.00	20.18	H
13715.000	50.63	-29.10	40.86	38.86	68.30	17.67	V
13717.100	50.36	-29.10	40.86	38.59	68.30	17.94	V
5451.700	57.39	-27.18	34.17	50.40	74.00	16.61	H
5463.300	55.48	-27.18	34.17	48.49	68.30	12.82	H

Channel 122

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17585.300	54.65	-25.74	45.95	34.44	68.30	13.65	V
17954.300	54.15	-25.50	46.66	32.99	74.00	19.85	H
13671.000	50.49	-29.50	40.43	39.56	68.30	17.81	V
14180.200	50.28	-28.99	42.00	37.26	68.30	18.02	H
5742.400	54.09	-27.07	34.31	46.85	68.30	14.21	H
5806.900	53.92	-27.07	34.33	46.66	68.30	14.38	H

Channel 138

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17976.900	54.05	-25.50	46.66	32.89	74.00	19.95	H
17985.200	53.73	-25.50	46.66	32.57	74.00	20.27	H
14201.100	50.61	-28.99	42.00	37.59	68.30	17.69	H
13637.400	50.23	-29.50	40.43	39.30	68.30	18.07	H
11177.800	48.44	-32.60	38.75	42.30	74.00	25.56	H
11988.500	48.22	-31.48	39.09	40.61	74.00	25.78	H

802.11ax-HT160

Channel 50

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17583.700	53.81	-25.74	45.95	33.60	68.30	14.49	V
17571.000	53.77	-25.74	45.95	33.56	68.30	14.53	H
14620.800	50.46	-27.29	41.90	35.85	68.30	17.84	H
13715.500	50.42	-29.10	40.86	38.65	68.30	17.88	V
5128.700	56.11	-27.56	33.67	50.00	74.00	17.89	V
5424.300	60.24	-27.42	34.11	53.55	74.00	13.76	H

Channel 114

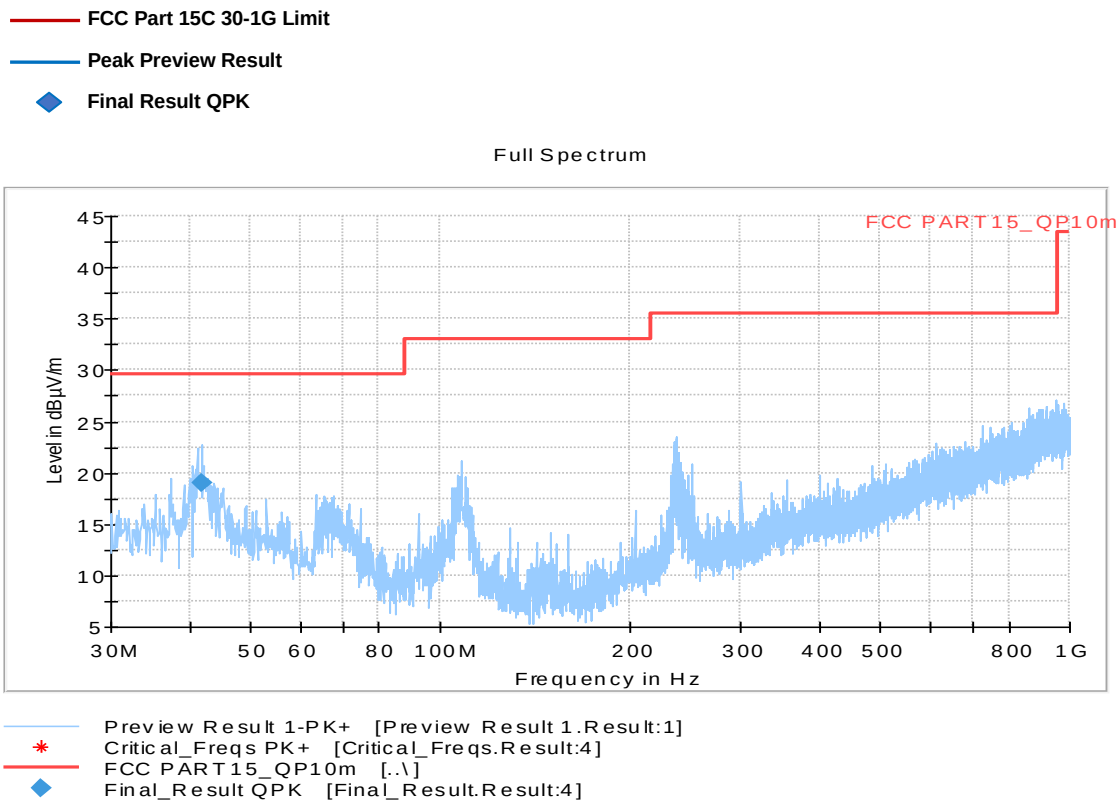
Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17955.500	54.04	-25.50	46.66	32.88	74.00	19.96	H
17398.800	53.37	-26.85	45.25	34.97	68.30	14.93	H
13731.500	50.14	-29.10	40.86	38.37	68.30	18.16	V
13305.800	50.13	-29.49	39.71	39.91	74.00	23.87	H
5459.400	57.79	-27.18	34.17	50.80	74.00	16.21	H
5468.400	58.54	-27.18	34.17	51.55	68.30	9.76	H

Note: the spurious emission above 18G is noise only

Conclusion: PASS

C.1.2 Radiated Spurious Emission- Below 1GHz

WOSRT CASE BELOW 1GHz



Frequency (MHz)	QuasiPeak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Margin (dB)	Limit (dBuV/m)
41.834000	19.03	275.0	V	260.0	10.51	29.54

Note: 10 meters' limit is got by converting from 3 meters test distance.
Limit (10m) = limit (3m) + 20(log (3/10))

BELOW 30MHz

No emissions were found within 20dB of the limit below 30MHz.

C.1.3 Band Edges Compliance– Radiated

INNOWAVE:

Mode	Channel	Test Results	Conclusion
802.11a	5180 MHz	Fig.1	P
	5320 MHz	Fig.2	P
	5500 MHz	Fig.3	P
	5700 MHz	Fig.4	P
802.11n HT20	5180 MHz	Fig.5	P
	5320 MHz	Fig.6	P
	5500 MHz	Fig.7	P
	5700 MHz	Fig.8	P
802.11n HT40	5190 MHz	Fig.9	P
	5310 MHz	Fig.10	P
	5510 MHz	Fig.11	P
	5670 MHz	Fig.12	P
802.11ax HT20	5180 MHz	Fig.13	P
	5320 MHz	Fig.14	P
	5500 MHz	Fig.15	P
	5700 MHz	Fig.16	P
802.11ax HT40	5190 MHz	Fig.17	P
	5310 MHz	Fig.18	P
	5510 MHz	Fig.19	P
	5670 MHz	Fig.20	P
802.11ax HT80	5210MHz	Fig.21	P
	5290MHz	Fig.22	P
	5530MHz	Fig.23	P
802.11ax HT160	5250MHz	Fig.24	P
	5250MHz	Fig.25	P
	5570MHz	Fig.26	P
802.11ac HT20	5180 MHz	Fig.27	P
	5320 MHz	Fig.28	P
	5500 MHz	Fig.29	P
	5700 MHz	Fig.30	P
802.11ac HT40	5190 MHz	Fig.31	P
	5310 MHz	Fig.32	P
	5510 MHz	Fig.33	P
	5670 MHz	Fig.34	P
802.11ac HT80	5210MHz	Fig.35	P

	5290MHz	Fig.36	P
	5530MHz	Fig.37	P
802.11ac HT160	5250MHz	Fig.38	P
	5250MHz	Fig.39	P
	5570MHz	Fig.40	P

The measurements were performed separately in Chain A, Chain B, and MIMO (Chain A+B), and only the worst cases are shown in this section.

Conclusion: PASS

SPEED:

Mode	Channel	Test Results	Conclusion
802.11a	5180 MHz	Fig.41	P
	5320 MHz	Fig.42	P
	5500 MHz	Fig.43	P
	5700 MHz	Fig.44	P
802.11n HT20	5180 MHz	Fig.45	P
	5320 MHz	Fig.46	P
	5500 MHz	Fig.47	P
	5700 MHz	Fig.48	P
802.11n HT40	5190 MHz	Fig.49	P
	5310 MHz	Fig.50	P
	5510 MHz	Fig.51	P
	5670 MHz	Fig.52	P
802.11ax HT20	5180 MHz	Fig.53	P
	5320 MHz	Fig.54	P
	5500 MHz	Fig.55	P
	5700 MHz	Fig.56	P
802.11ax HT40	5190 MHz	Fig.57	P
	5310 MHz	Fig.58	P
	5510 MHz	Fig.59	P
	5670 MHz	Fig.60	P
802.11ax HT80	5210MHz	Fig.61	P
	5290MHz	Fig.62	P
	5530MHz	Fig.63	P
802.11ax HT160	5250MHz	Fig.64	P
	5250MHz	Fig.65	P
	5570MHz	Fig.66	P
802.11ac HT20	5180 MHz	Fig.67	P
	5320 MHz	Fig.68	P

	5500 MHz	Fig.69	P
	5700 MHz	Fig.70	P
802.11ac HT40	5190 MHz	Fig.71	P
	5310 MHz	Fig.72	P
	5510 MHz	Fig.73	P
	5670 MHz	Fig.74	P
802.11ac HT80	5210MHz	Fig.75	P
	5290MHz	Fig.76	P
	5530MHz	Fig.77	P
802.11ac HT160	5250MHz	Fig.78	P
	5250MHz	Fig.79	P
	5570MHz	Fig.80	P

The measurements were performed separately in Chain A, Chain B, and MIMO (Chain A+B), and only the worst cases are shown in this section.

Conclusion: PASS

Test graphs as below:

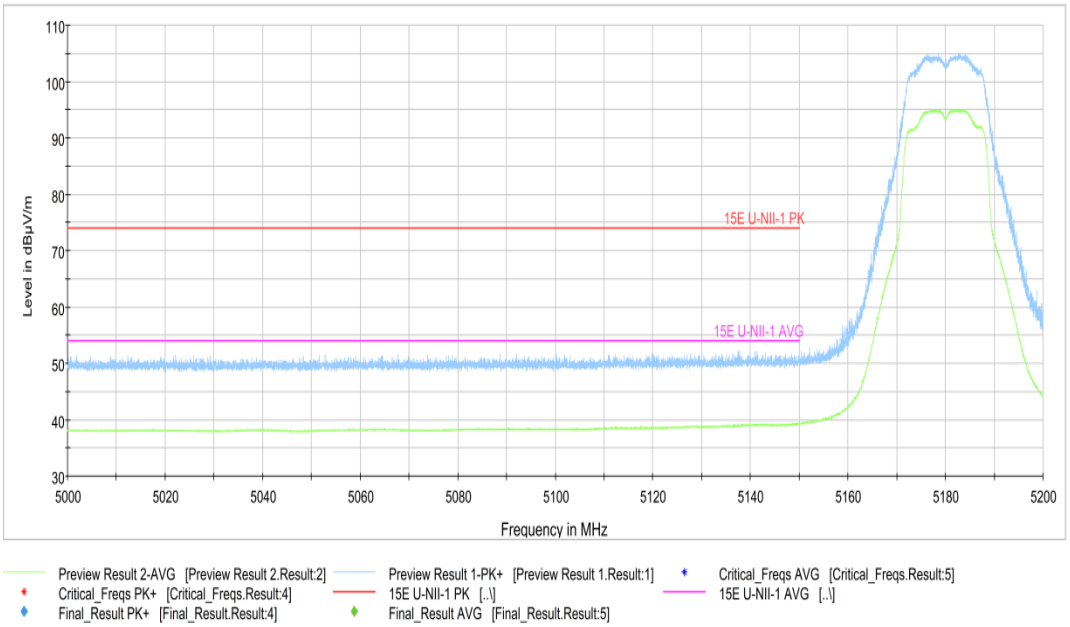


Fig.1 Band Edges (802.11a, 5180MHz)

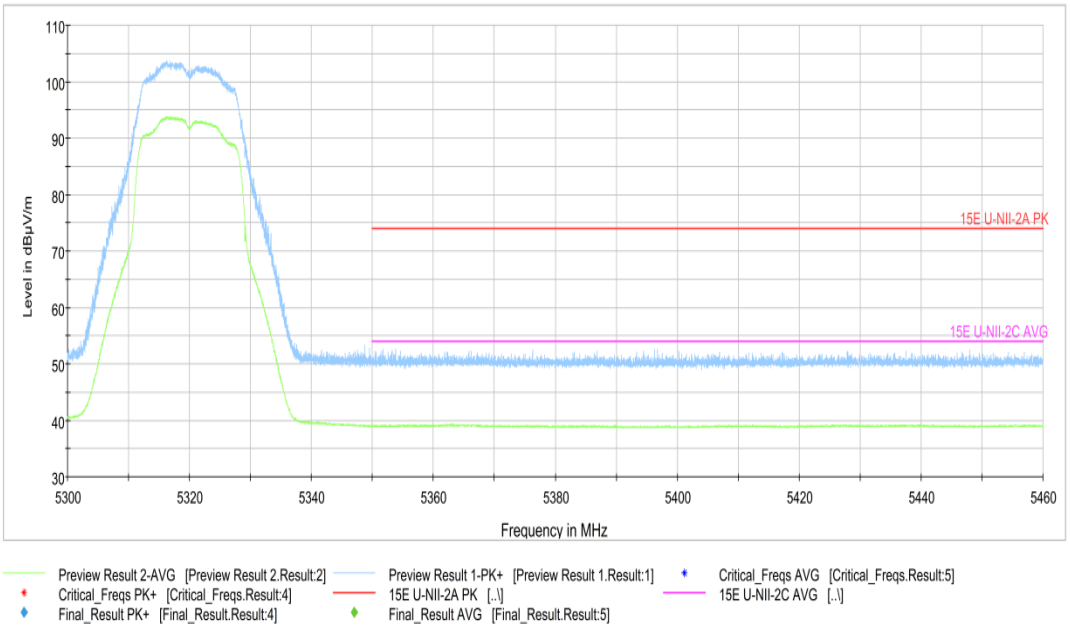


Fig.2 Band Edges (802.11a, 5320MHz)

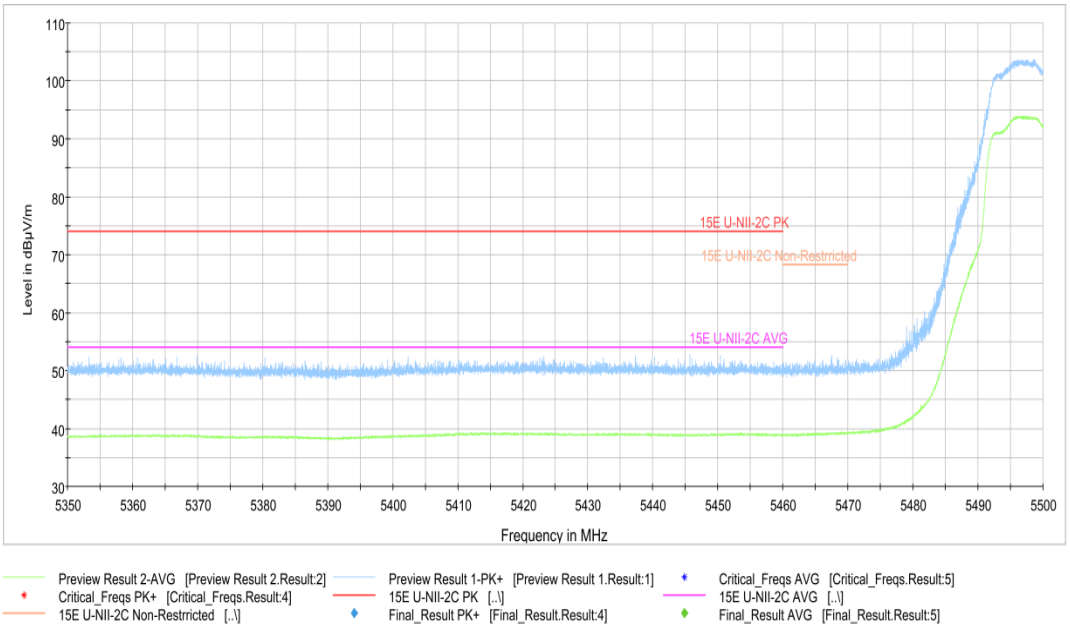


Fig.3 Band Edges (802.11a, 5500MHz)

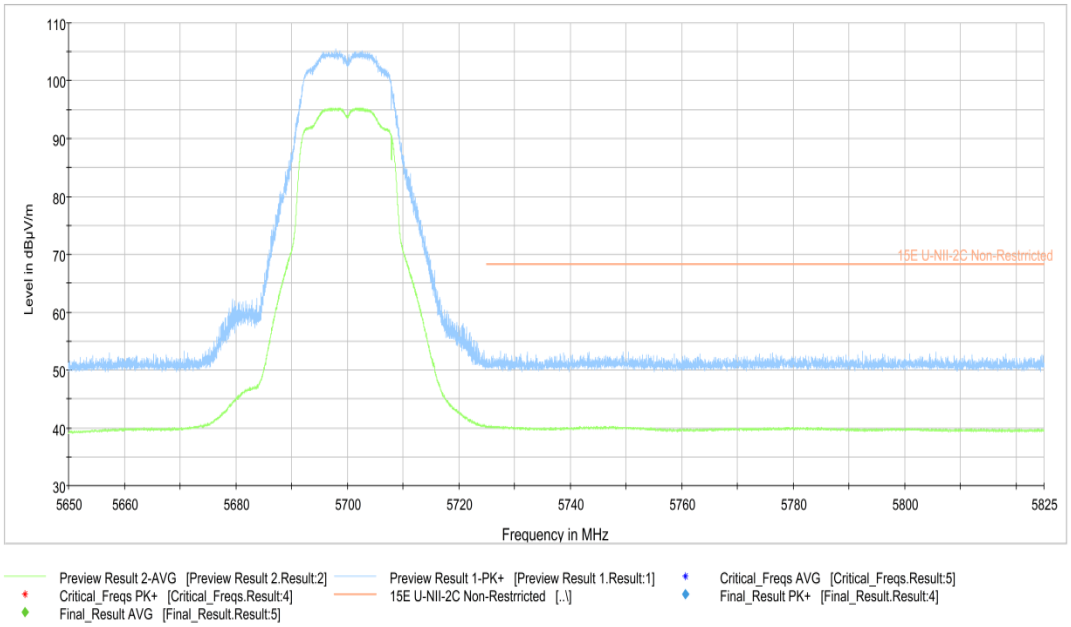


Fig.4 Band Edges (802.11a, 5700MHz)

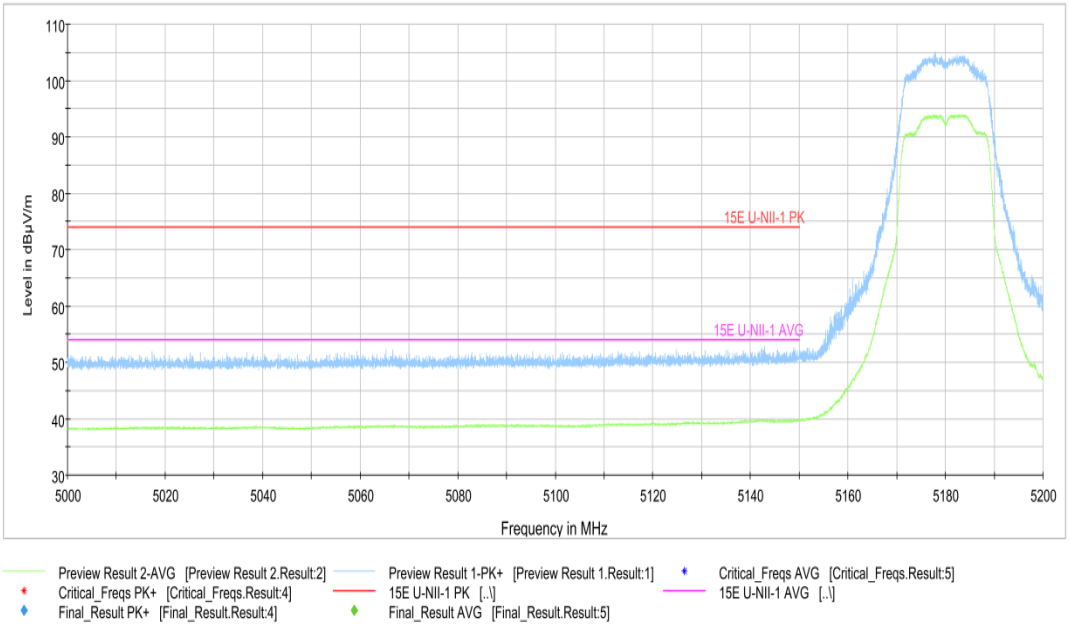


Fig.5 Band Edges (802.11n-HT20, 5180MHz)

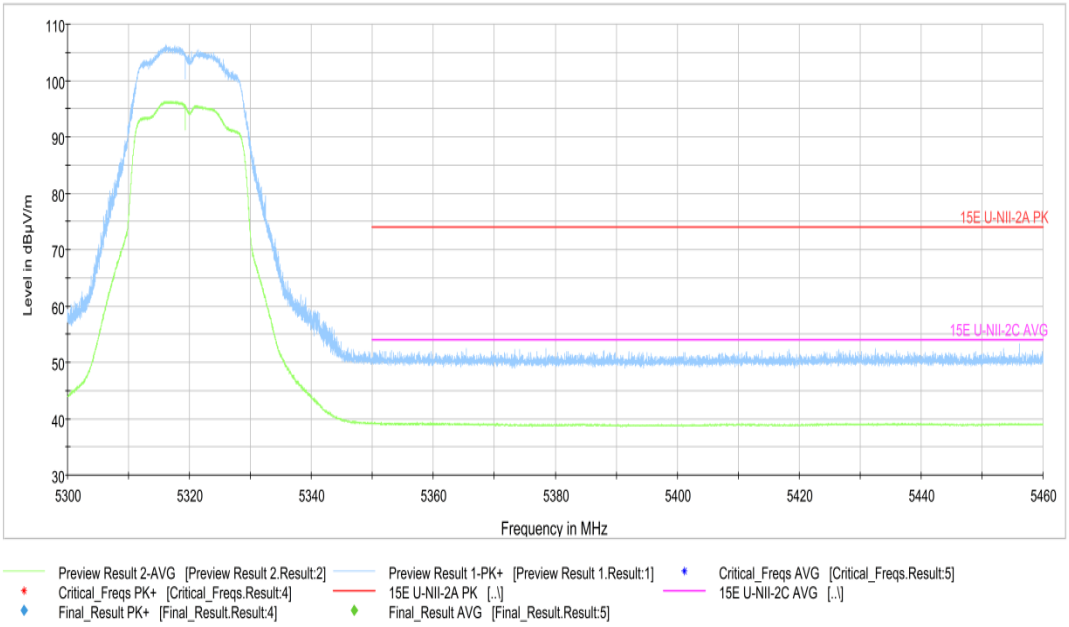


Fig.6 Band Edges (802.11n-HT20, 5320MHz)

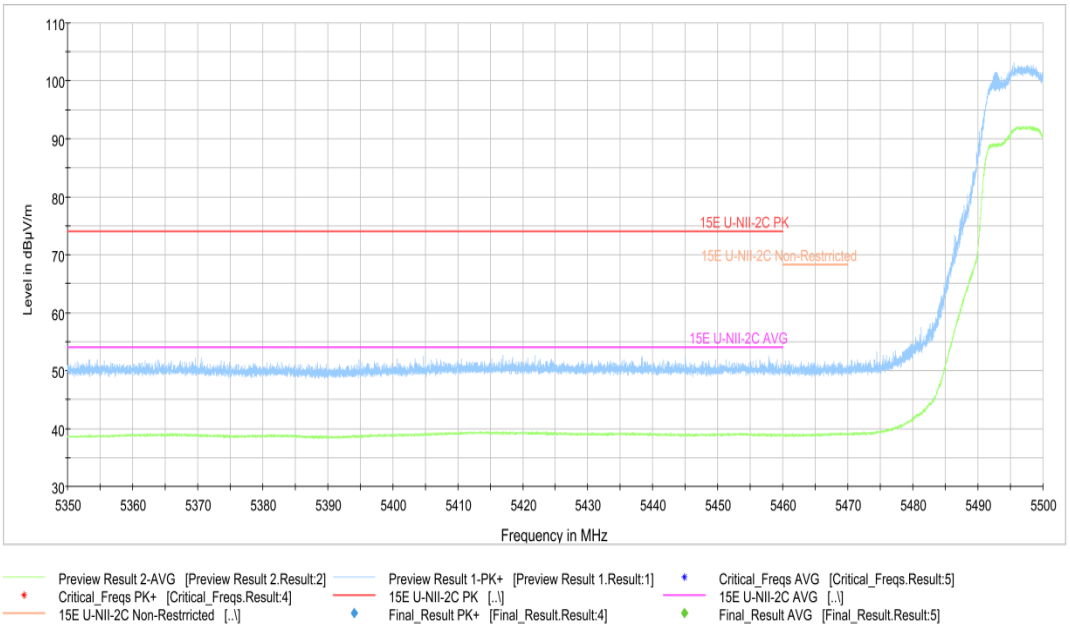


Fig.7 Band Edges (802.11n-HT20, 5500MHz)

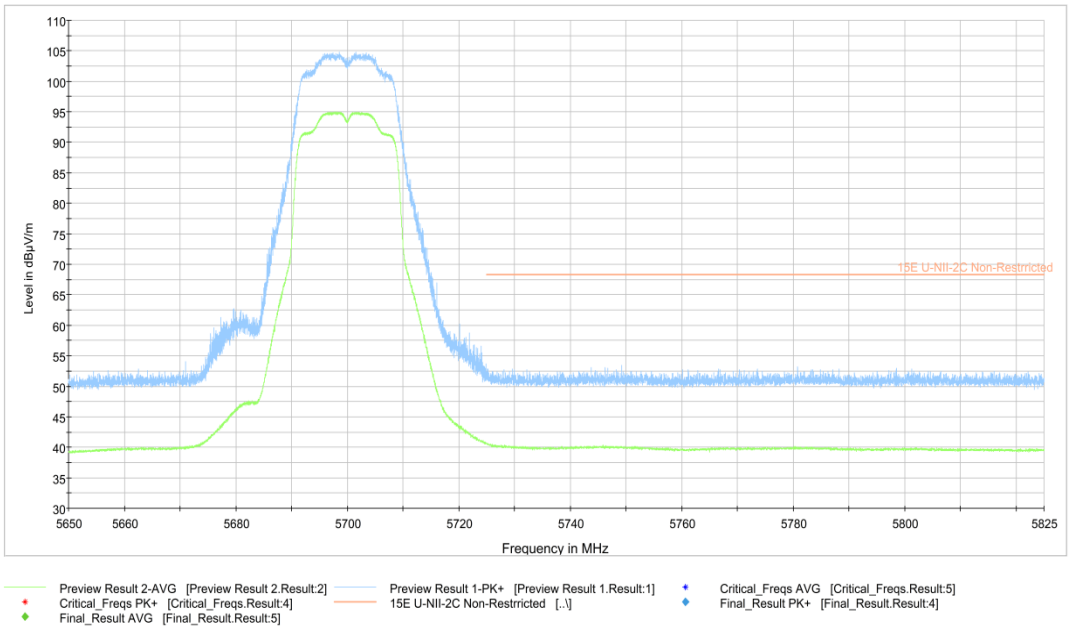


Fig.8 Band Edges (802.11n-HT20, 5700MHz)

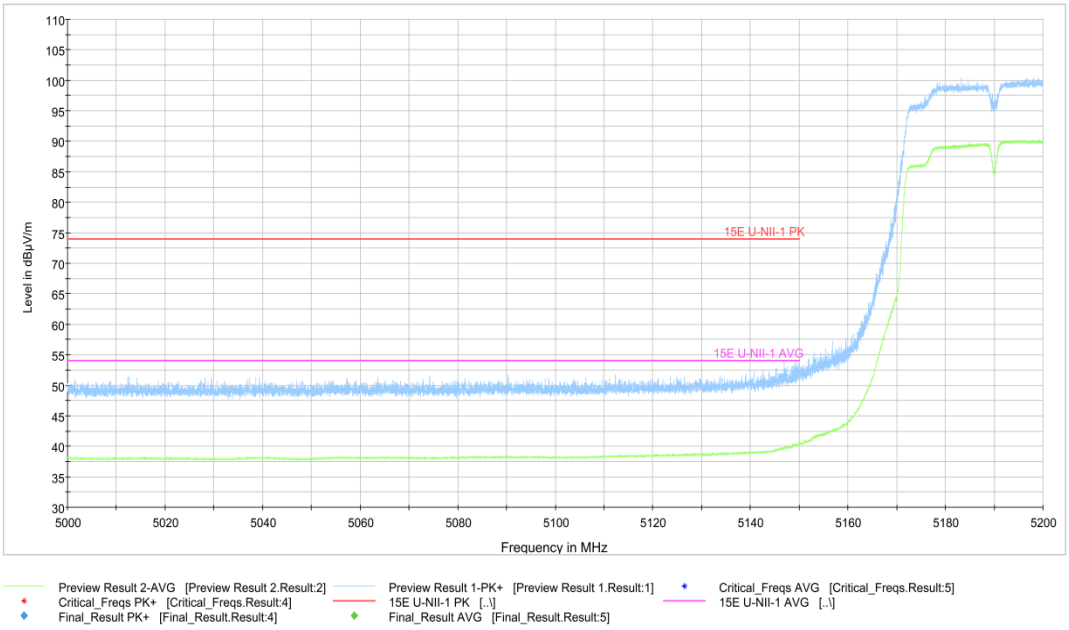


Fig.9 Band Edges (802.11n-HT40, 5190MHz)

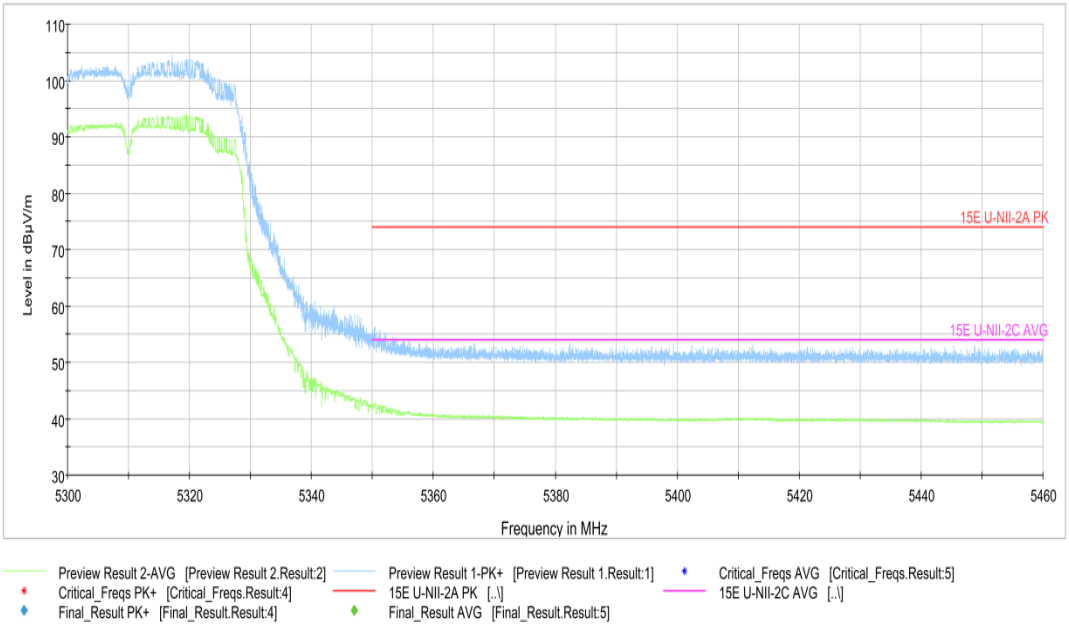


Fig.10 Band Edges (802.11n-HT40, 5310MHz)

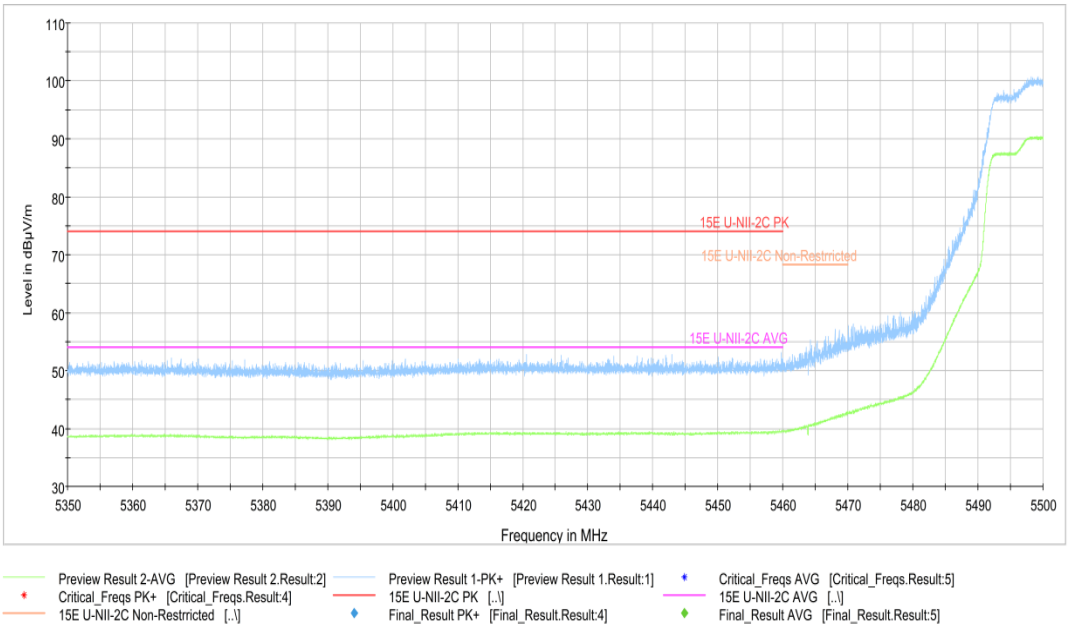


Fig.11 Band Edges (802.11n-HT40, 5510MHz)

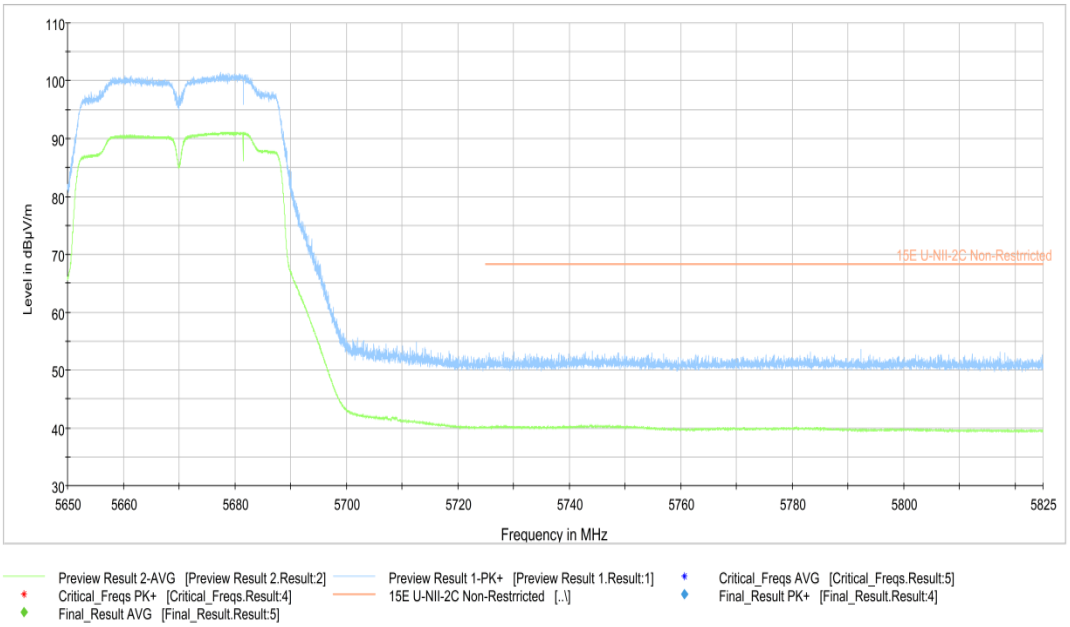


Fig.12 Band Edges (802.11n-HT40, 5670MHz)

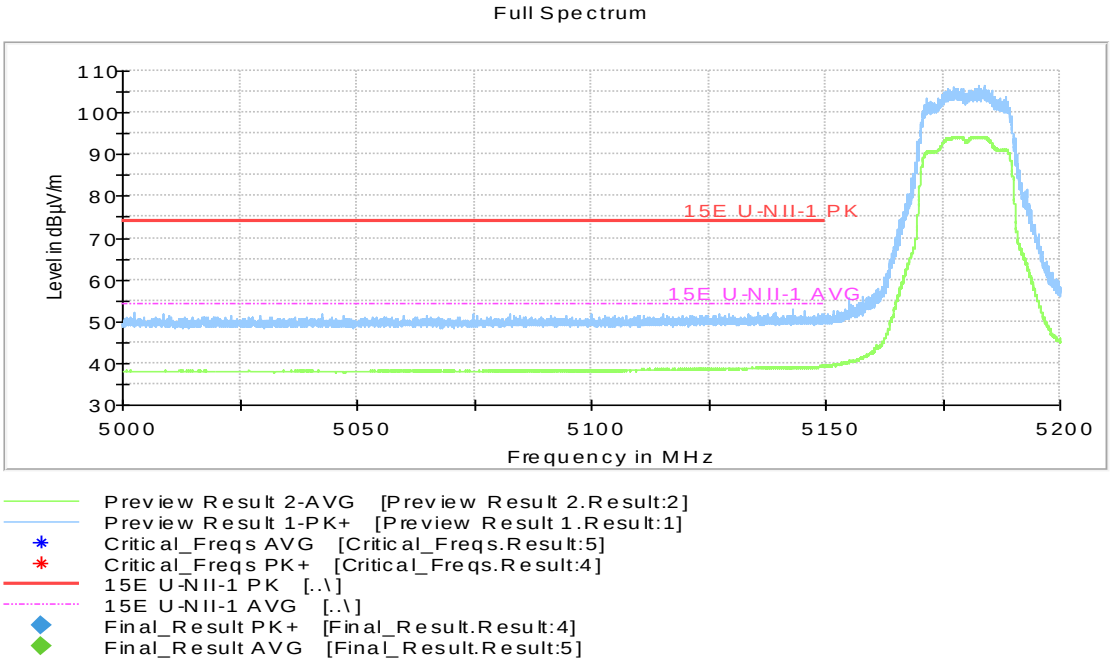


Fig.13 Band Edges (802.11ax-HT20, 5180MHz)

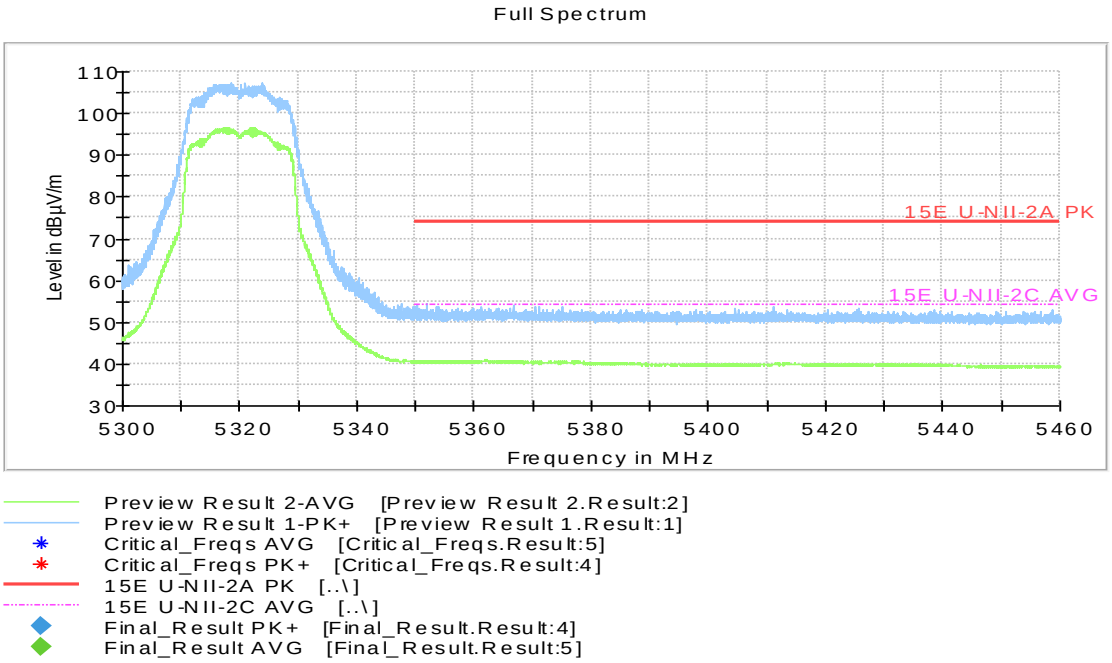


Fig.14 Band Edges (802.11ax-HT20, 5320MHz)

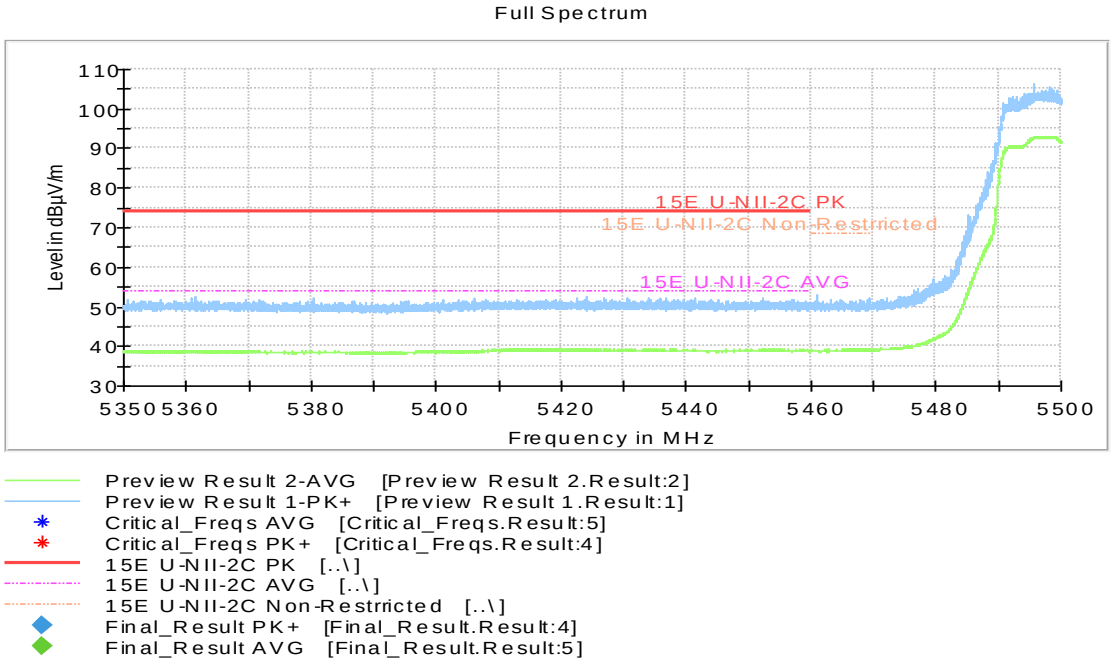


Fig.15 Band Edges (802.11ax-HT20, 5500MHz)

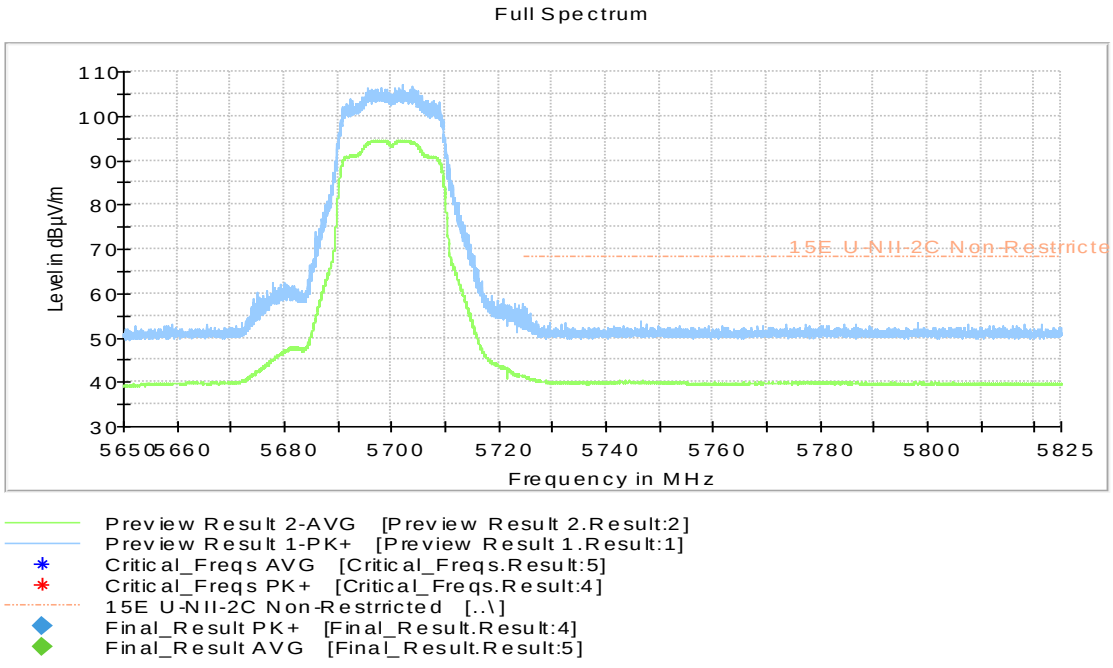


Fig.16 Band Edges (802.11ax-HT20, 5700MHz)

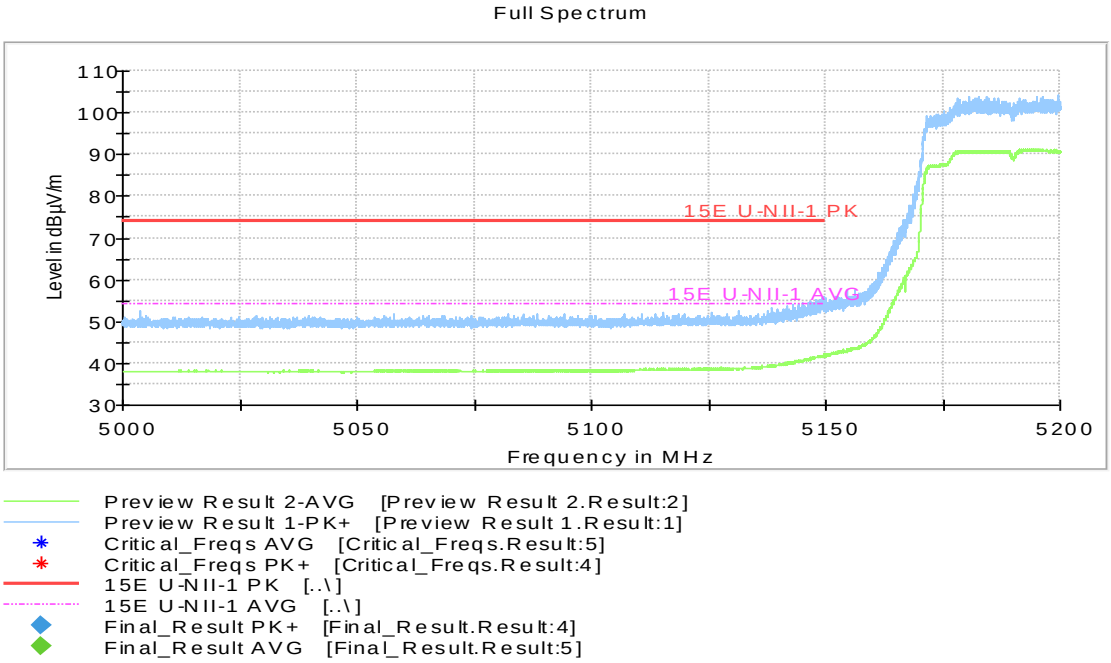


Fig.17 Band Edges (802.11ax-HT40, 5190MHz)

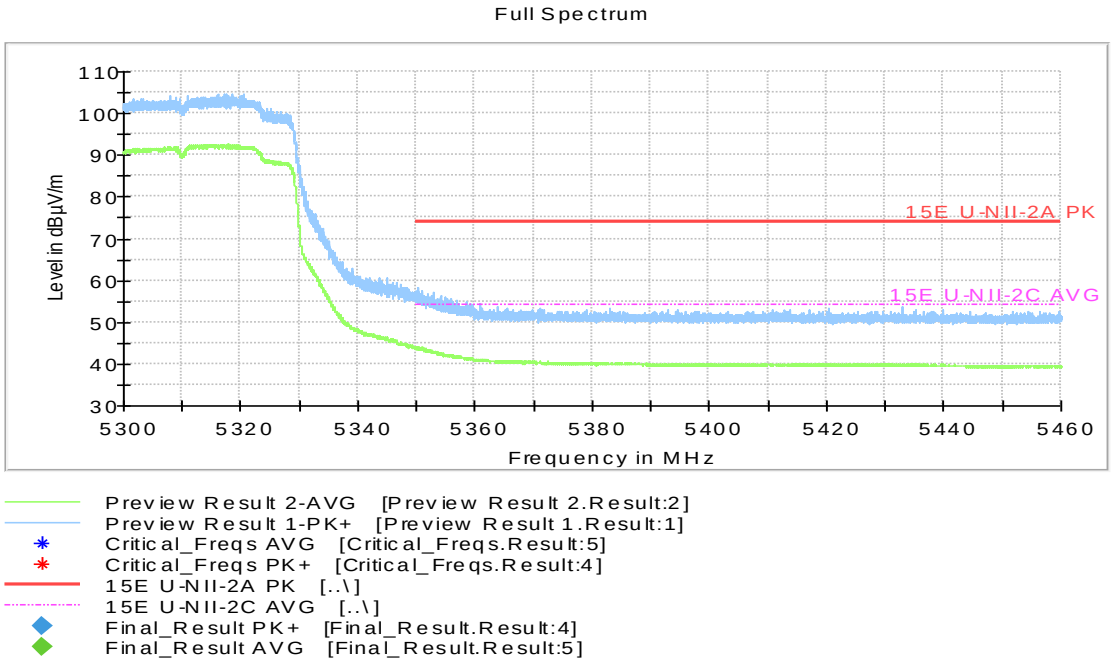


Fig.18 Band Edges (802.11ax-HT40, 5310MHz)

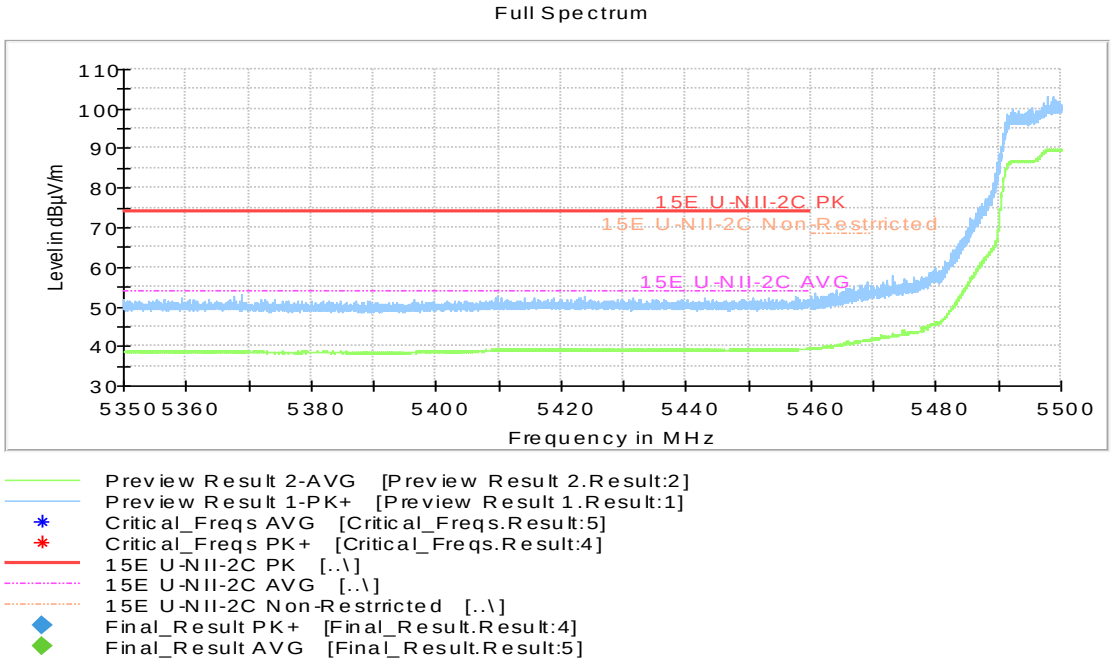


Fig.19 Band Edges (802.11ax-HT40, 5510MHz)

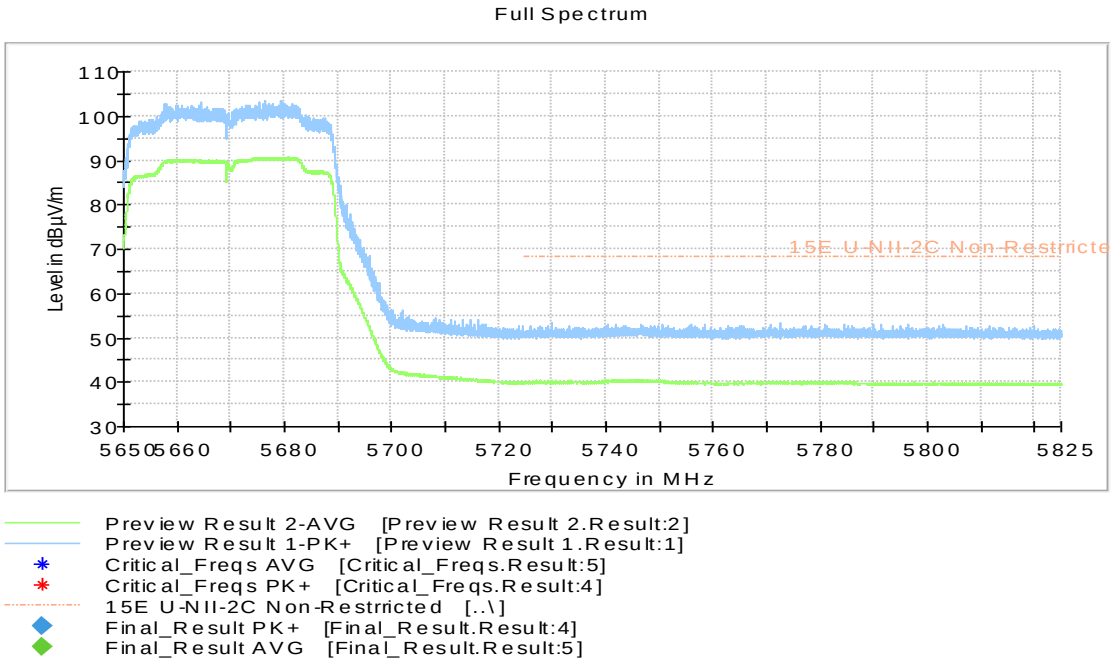


Fig.20 Band Edges (802.11ax-HT40, 5670MHz)

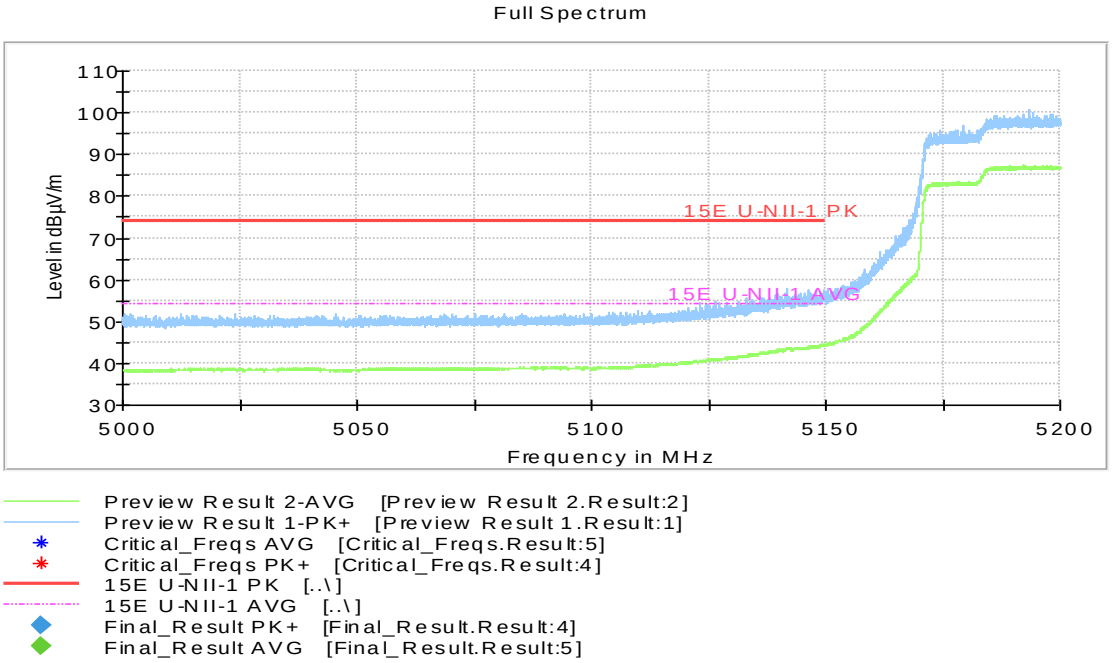


Fig.21 Band Edges (802.11ax-HT80, 5210MHz)

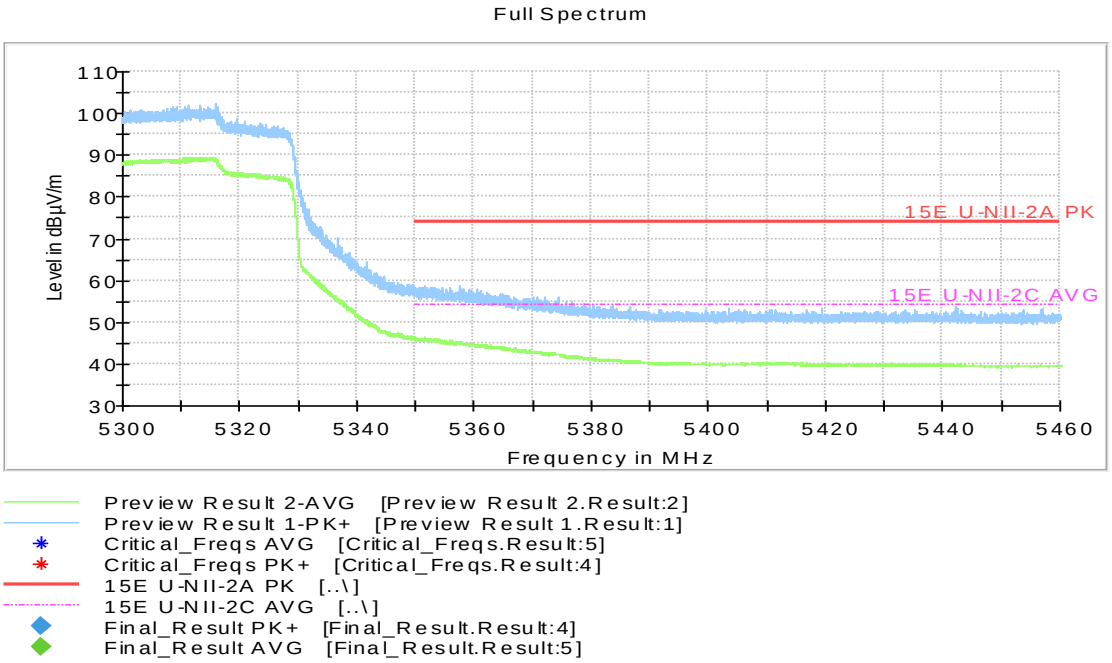


Fig.22 Band Edges (802.11ax-HT80, 5290MHz)

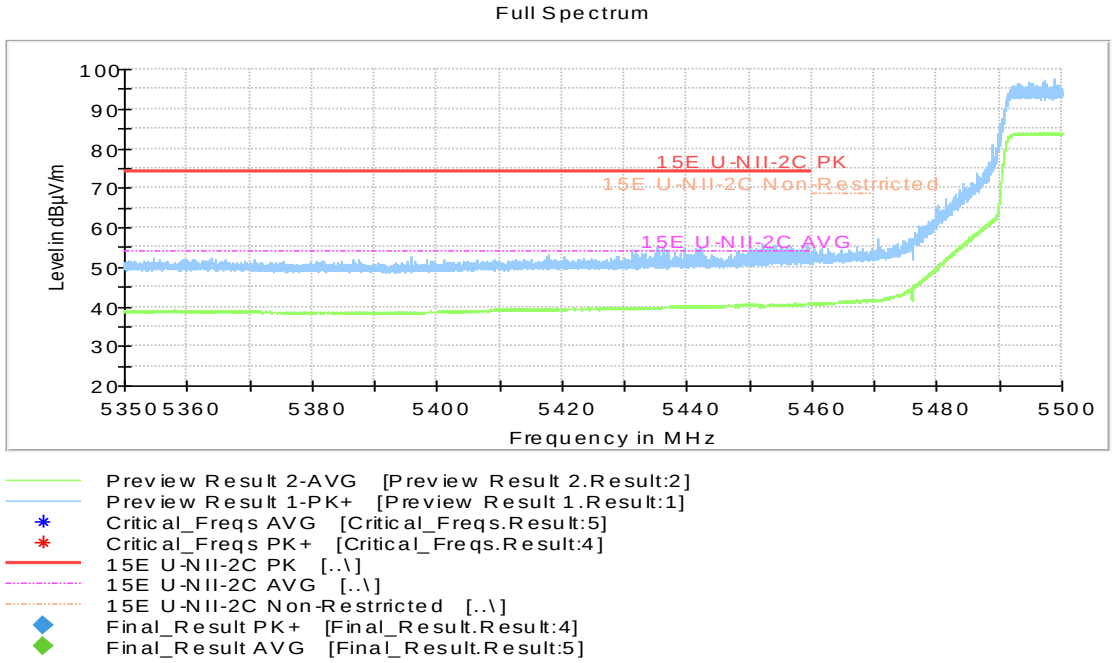


Fig.23 Band Edges (802.11ax-HT80, 5530MHz)

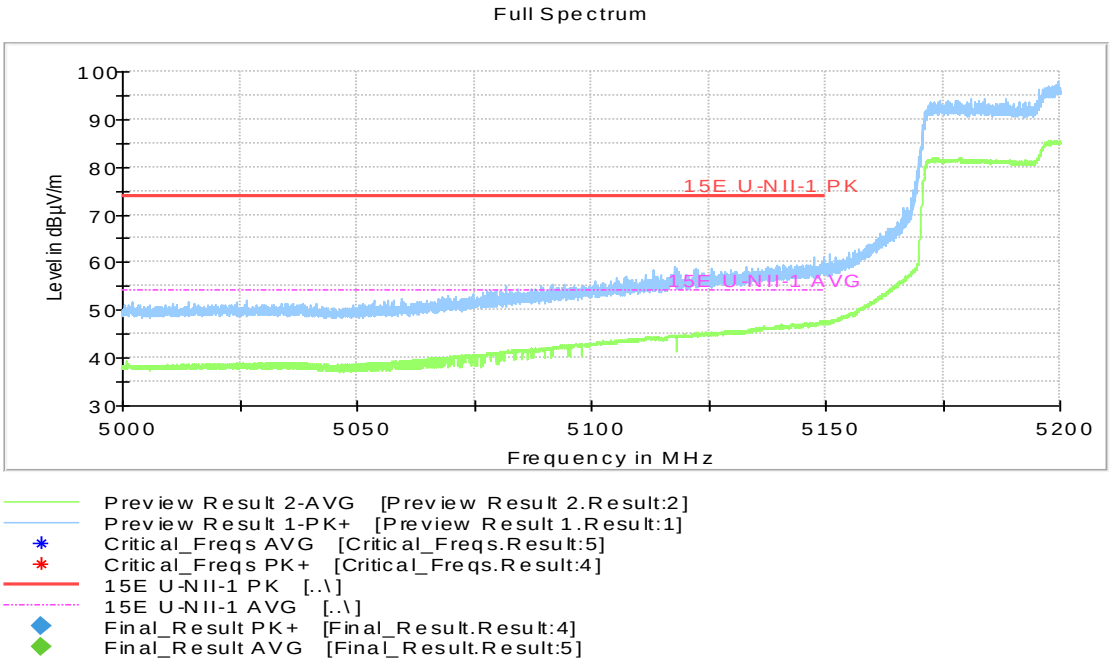


Fig.24 Band Edges (802.11ax-HT160, 5250MHz)

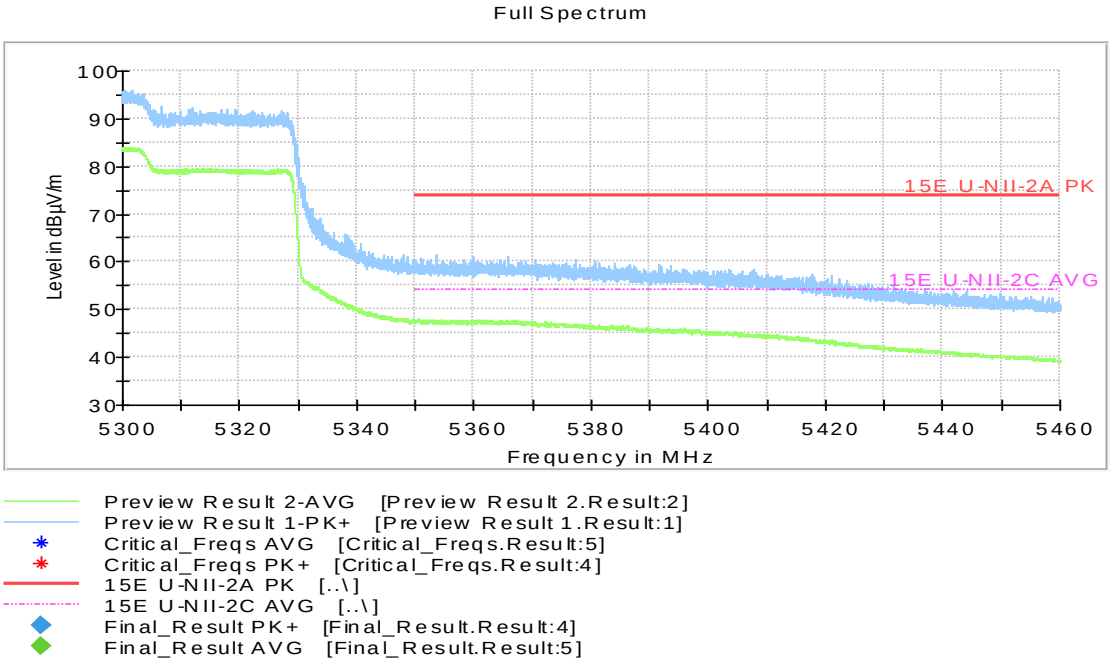


Fig.25 Band Edges (802.11ax-HT160, 5250MHz)

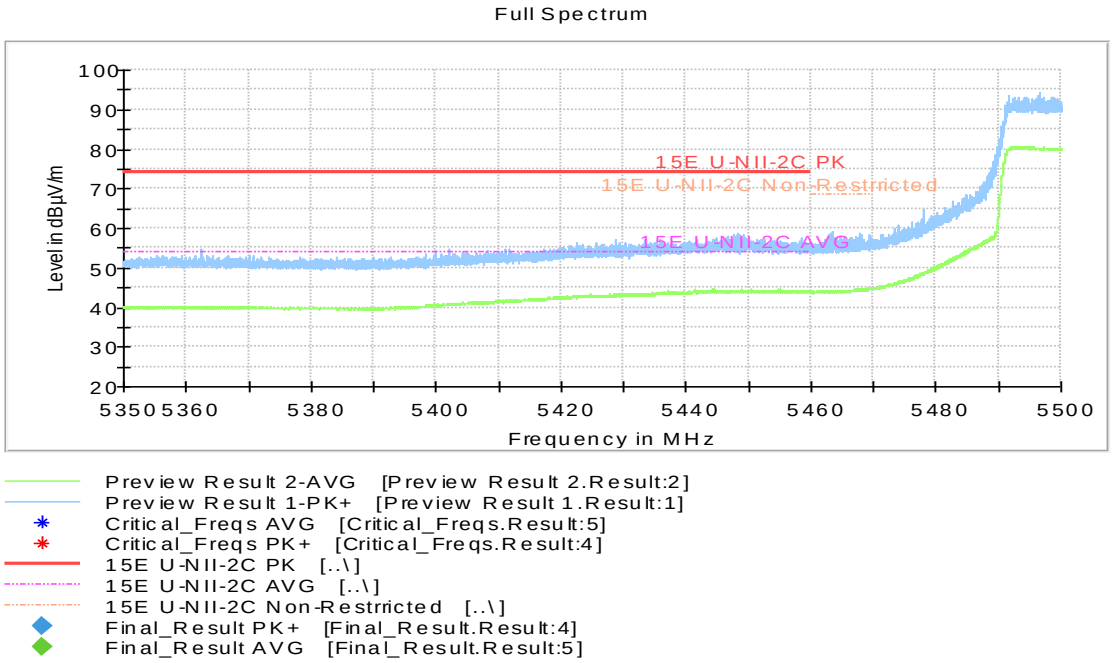


Fig.26 Band Edges (802.11ax-HT160, 5570MHz)

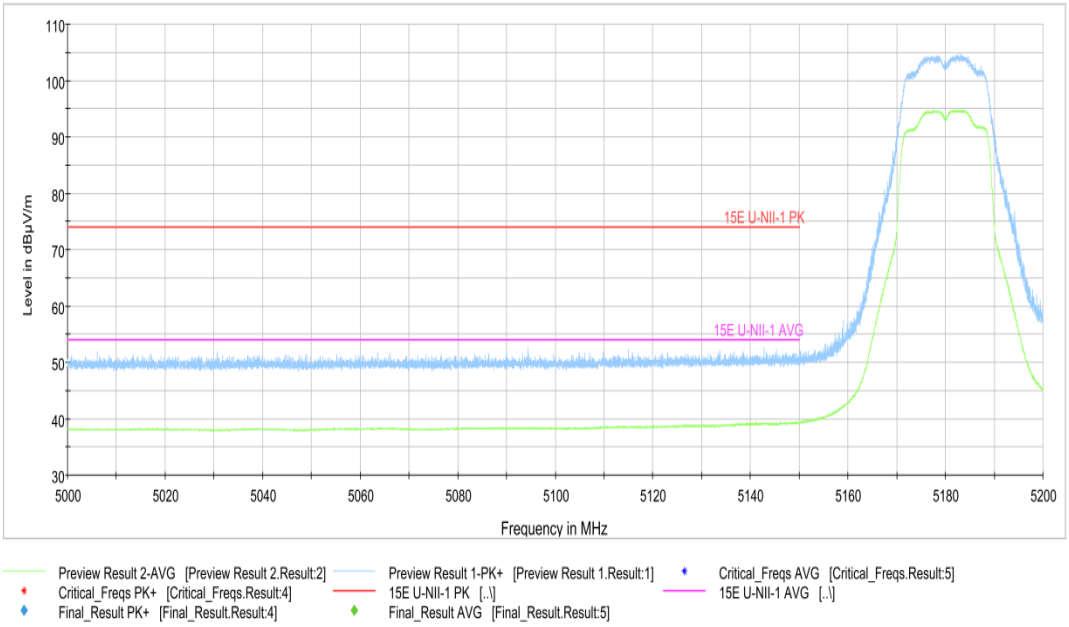


Fig.27 Band Edges (802.11ac-HT20, 5180MHz)

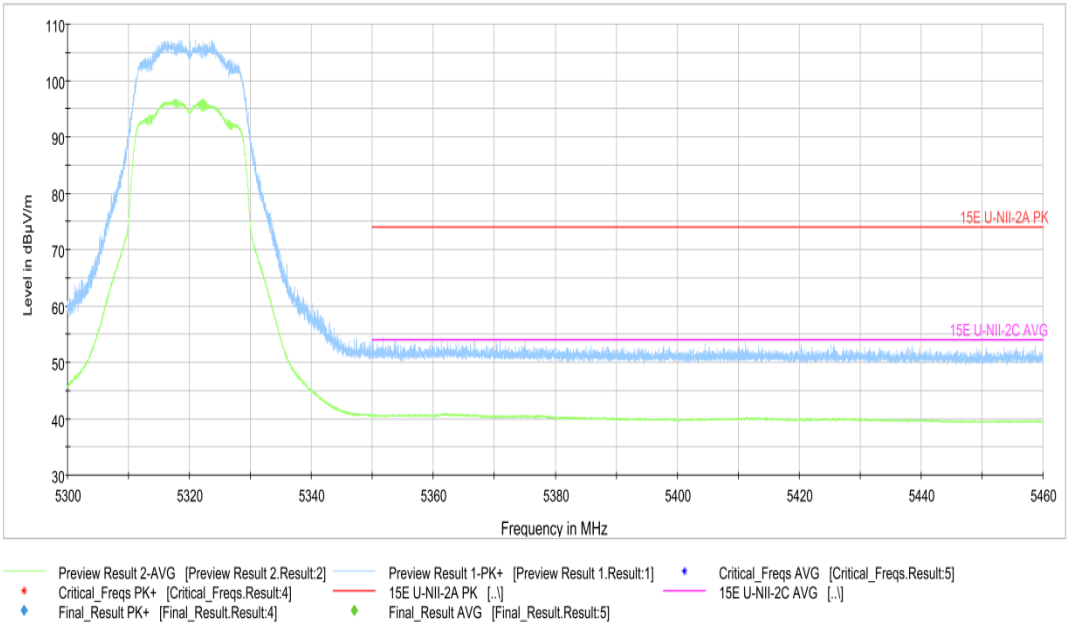


Fig.28 Band Edges (802.11ac-HT20, 5320MHz)

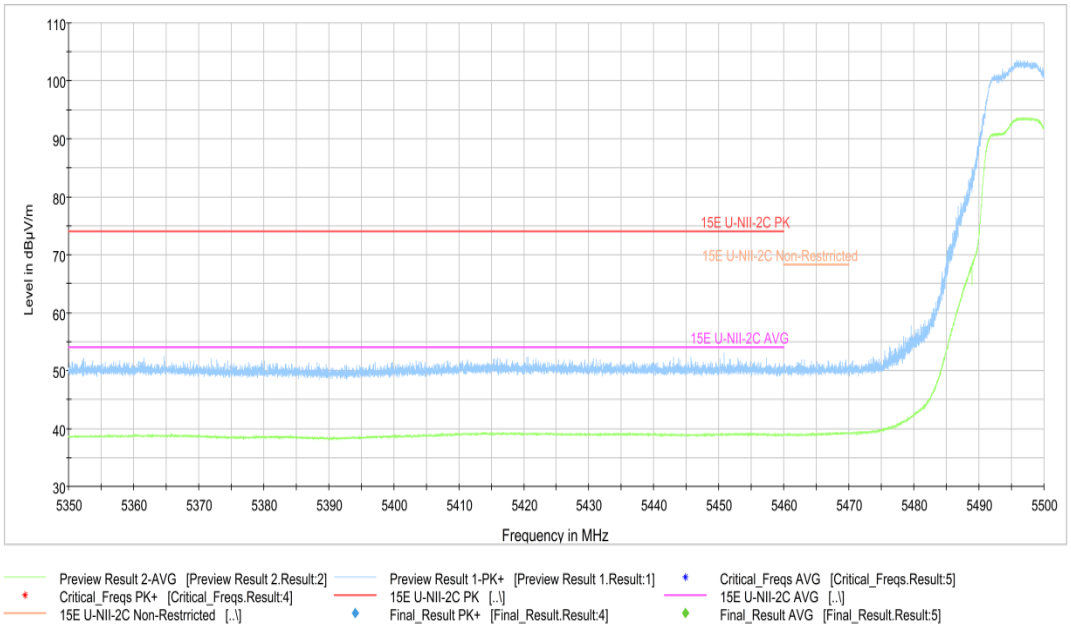


Fig.29 Band Edges (802.11ac-HT20, 5500MHz)

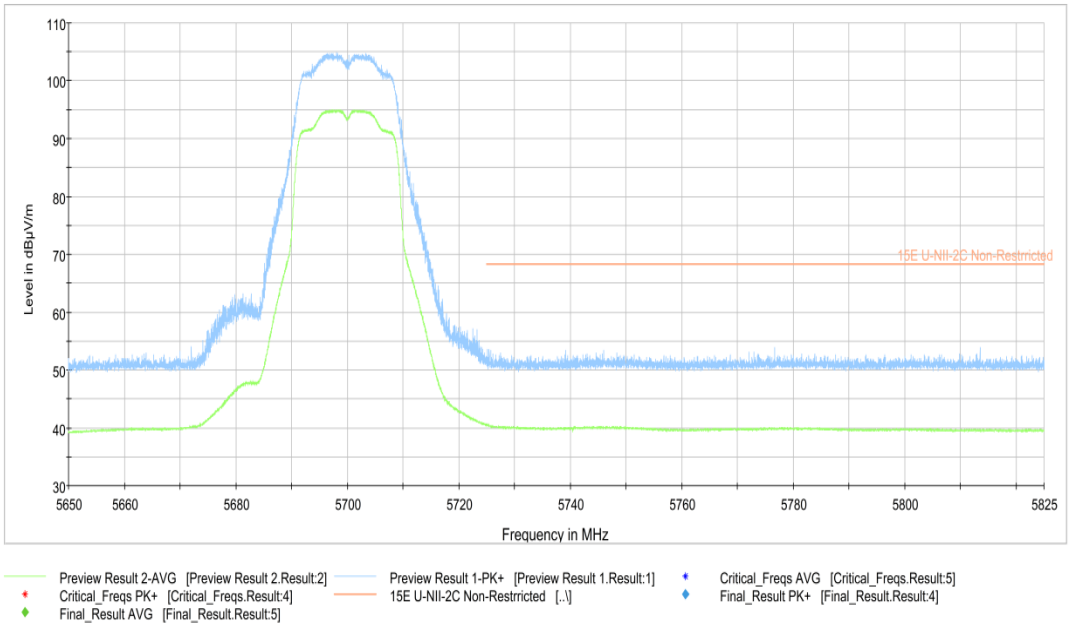


Fig.30 Band Edges (802.11ac-HT20, 5700MHz)

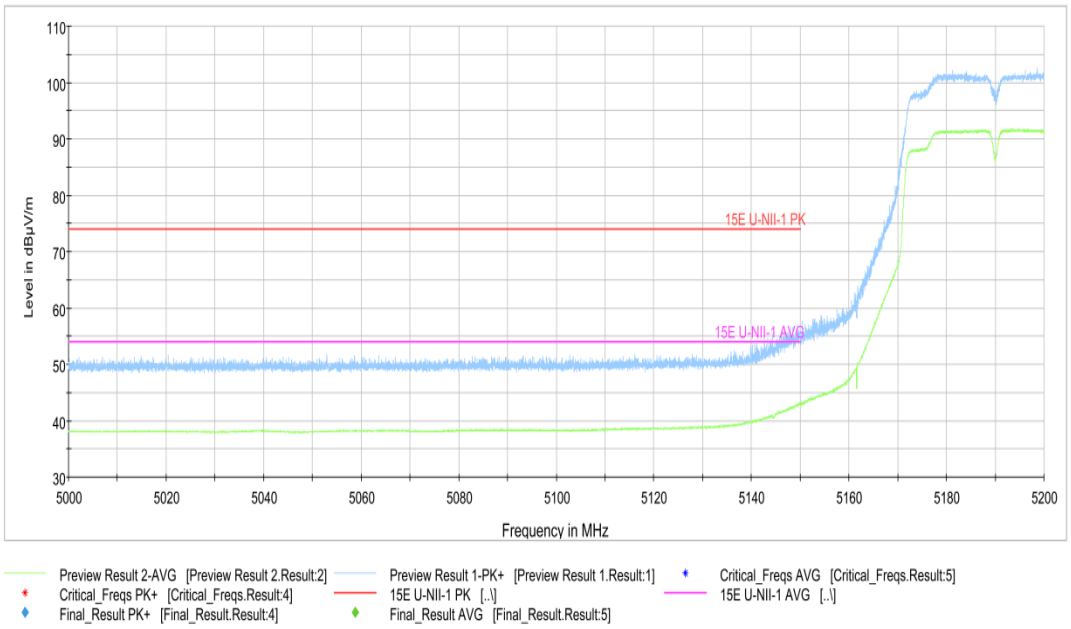


Fig.31 Band Edges (802.11ac-HT40, 5190MHz)

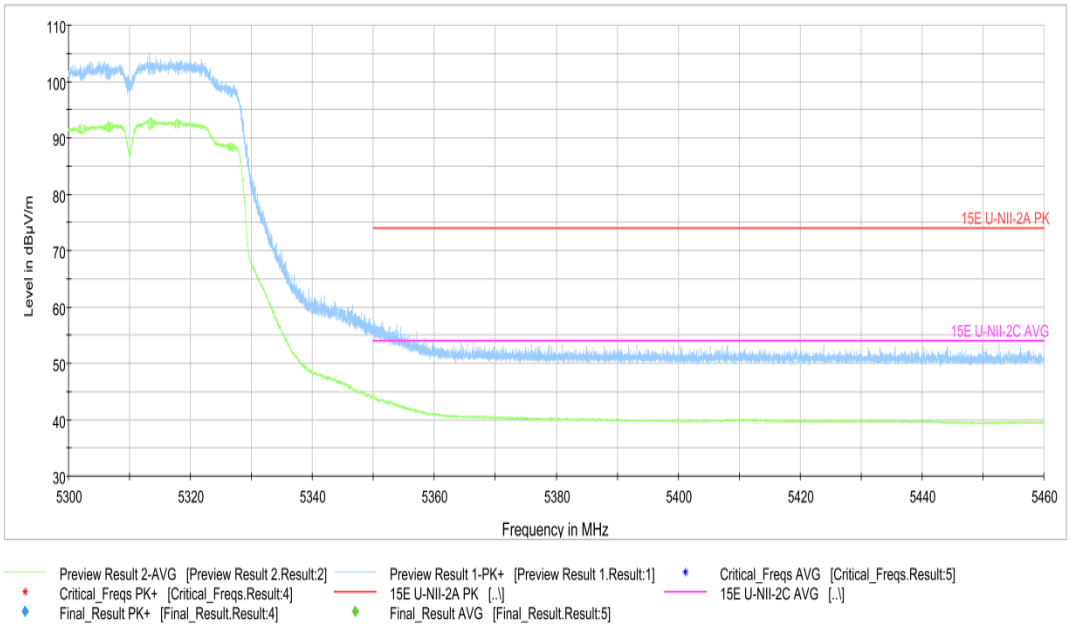


Fig.32 Band Edges (802.11ac-HT40, 5310MHz)

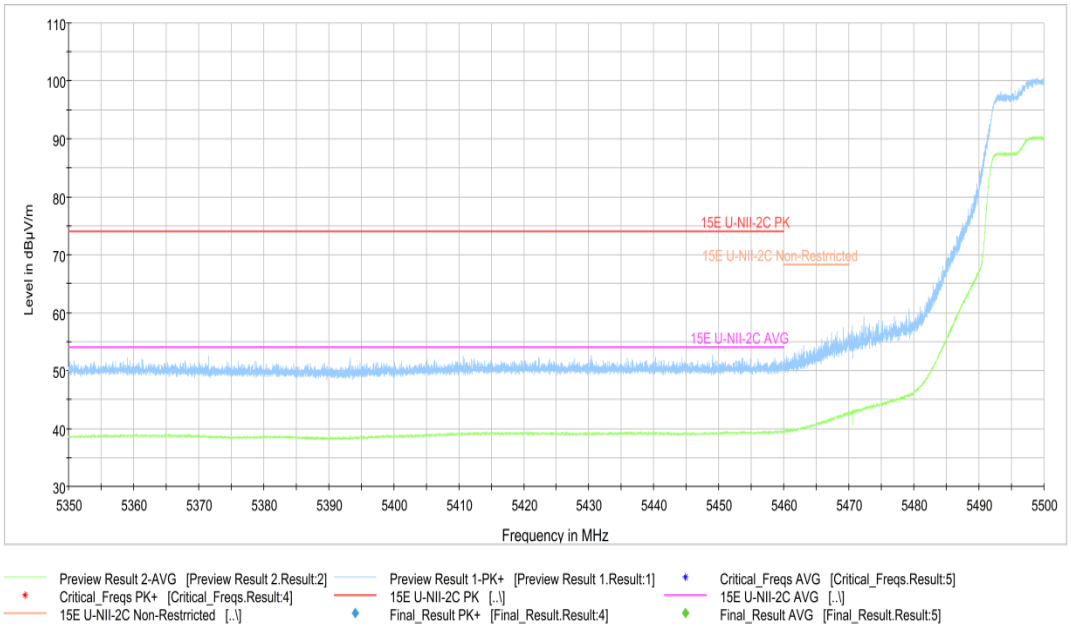


Fig.33 Band Edges (802.11ac-HT40, 5510MHz)

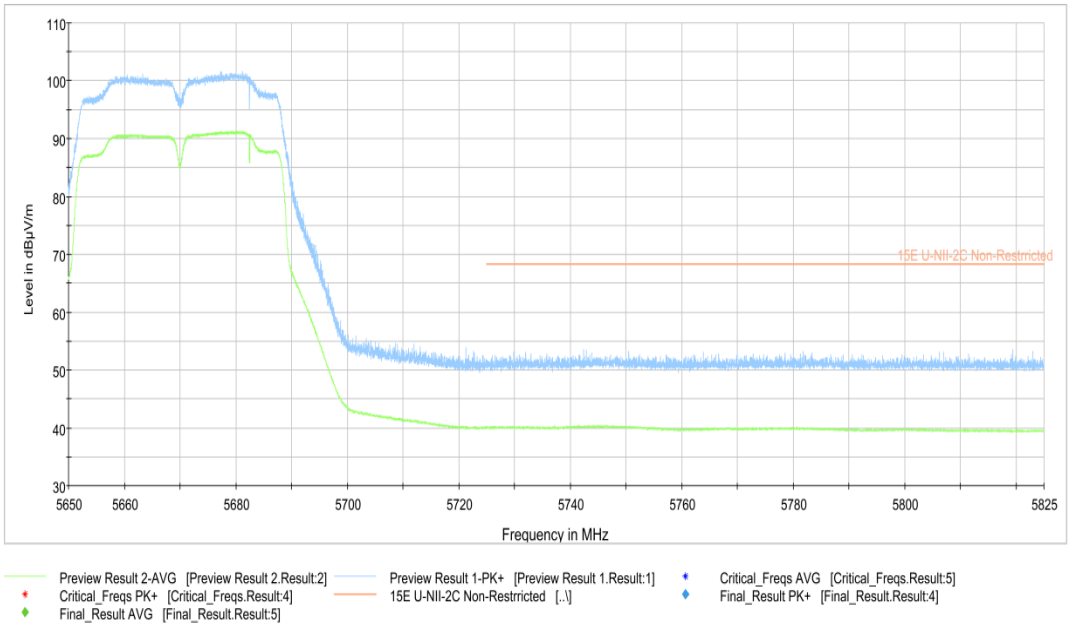


Fig.34 Band Edges (802.11ac-HT40, 5670MHz)

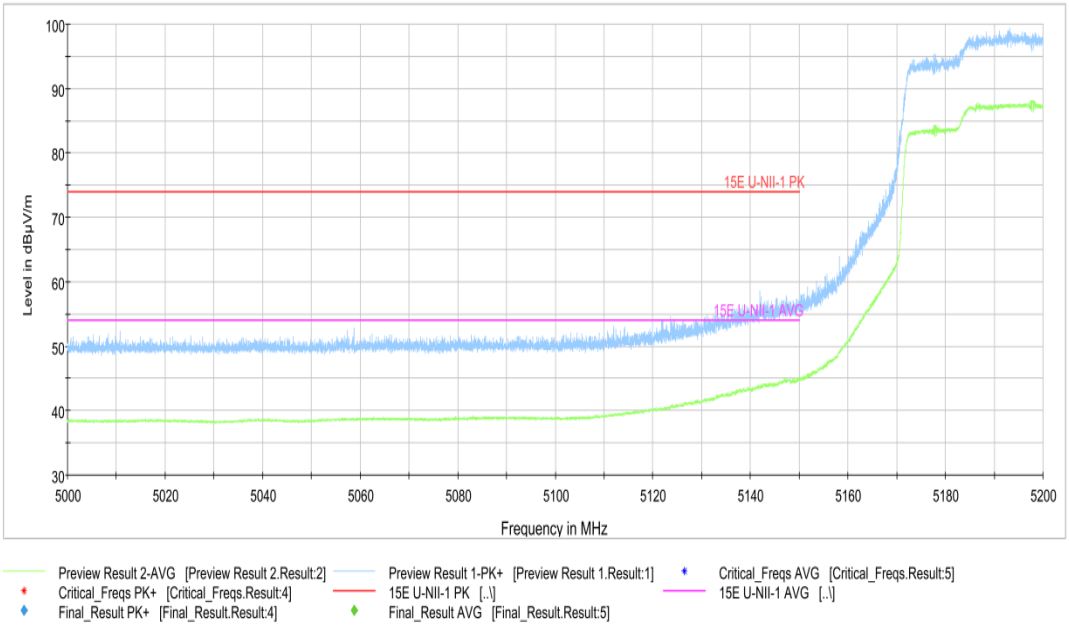


Fig.35 Band Edges (802.11ac-HT80, 5210MHz)

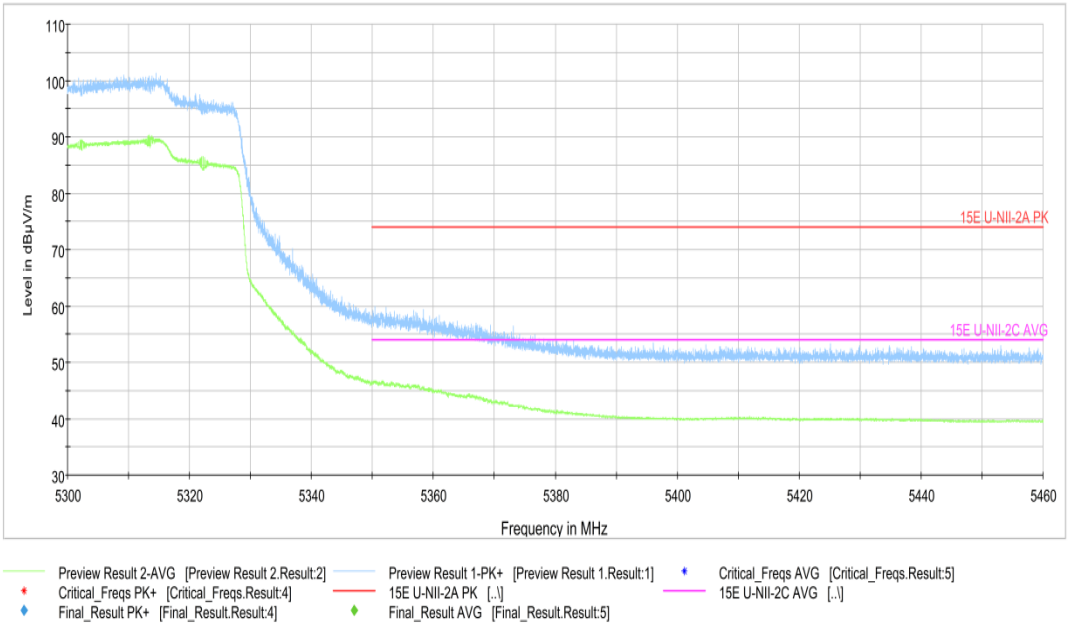


Fig.36 Band Edges (802.11ac-HT80, 5290MHz)

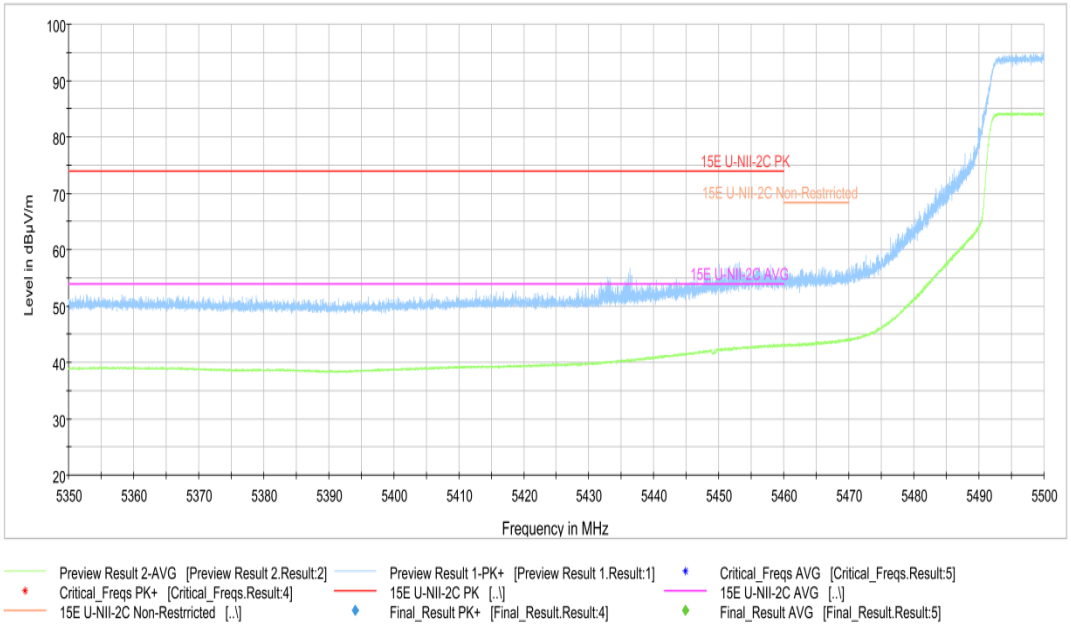


Fig.37 Band Edges (802.11ac-HT80, 5530MHz)

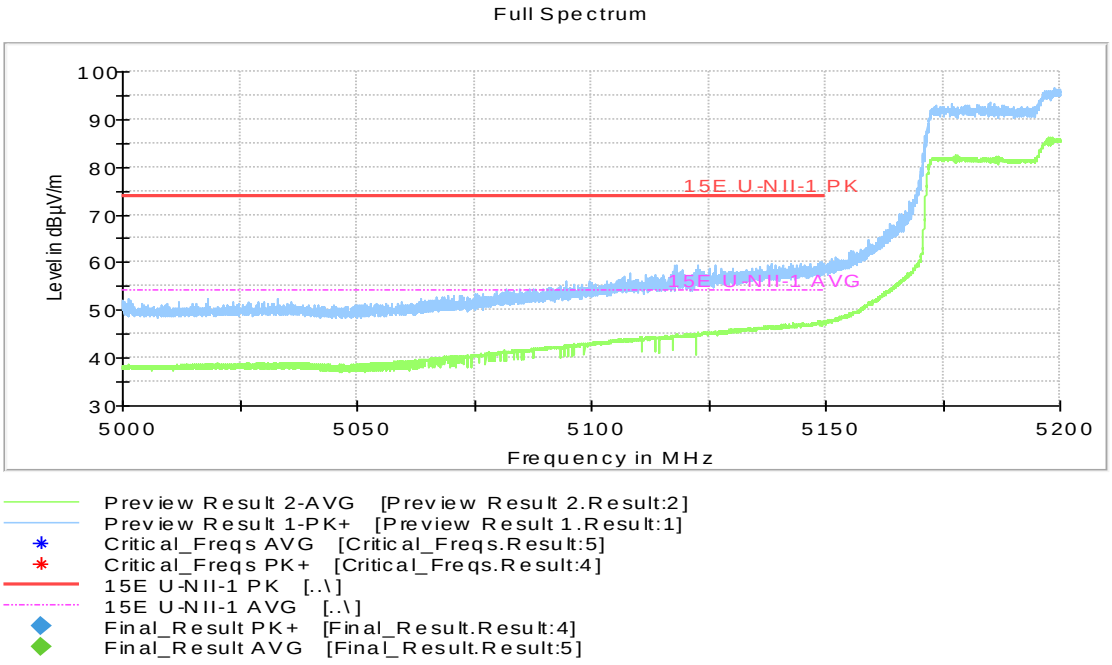


Fig.38 Band Edges (802.11ac-HT160, 5250MHz)

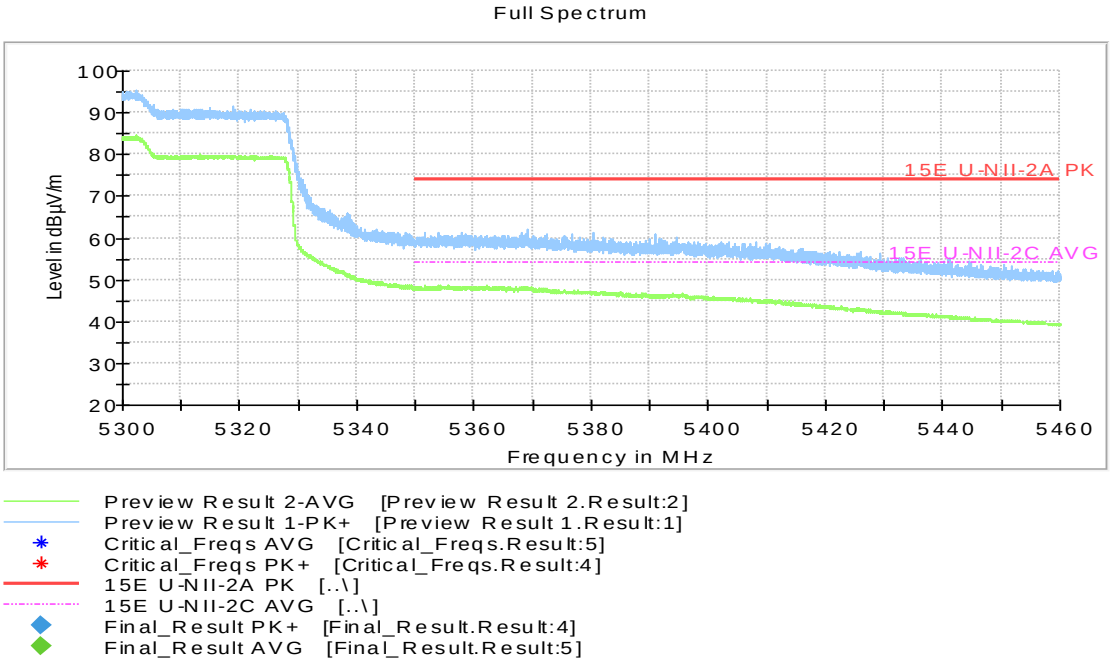


Fig.39 Band Edges (802.11ac-HT160, 5250MHz)

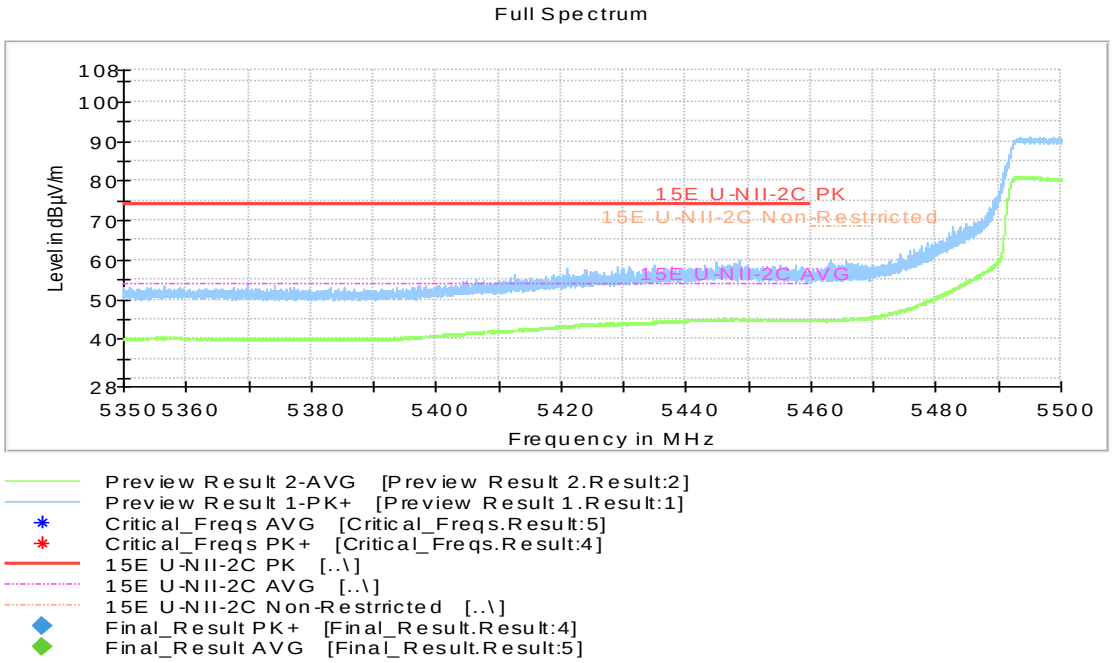


Fig.40 Band Edges (802.11ac-HT160, 5570MHz)

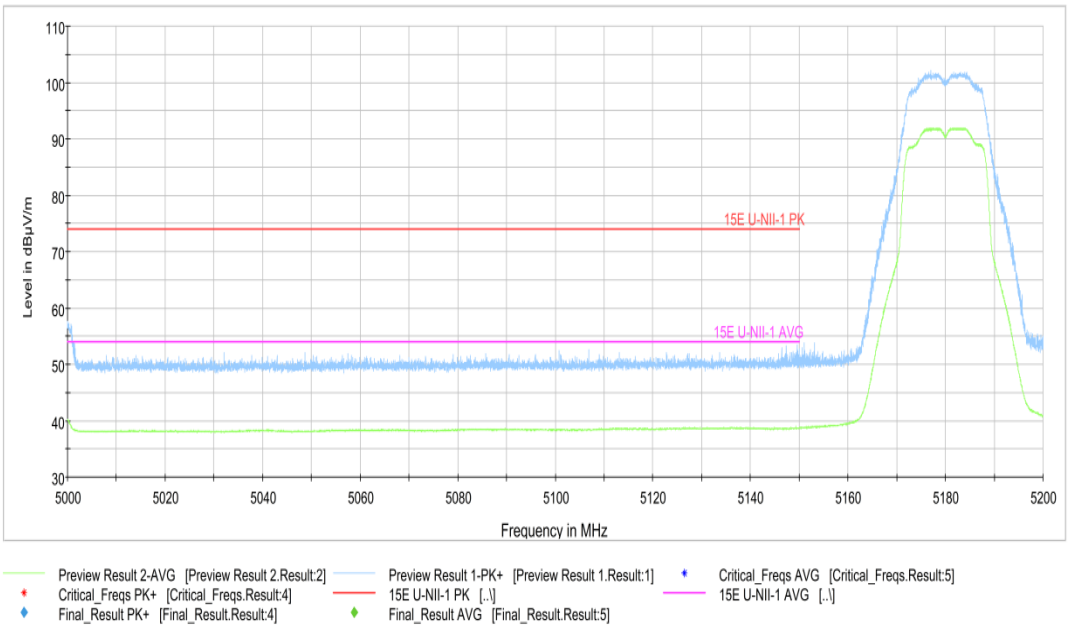


Fig.41 Band Edges (802.11a, 5180MHz)

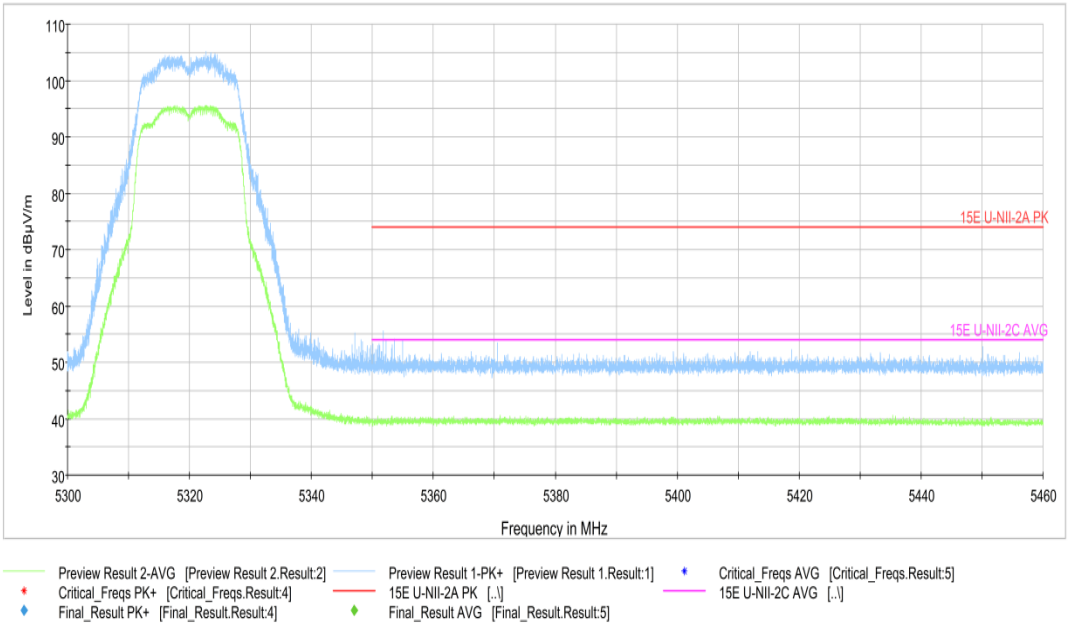


Fig.42 Band Edges (802.11a, 5320MHz)

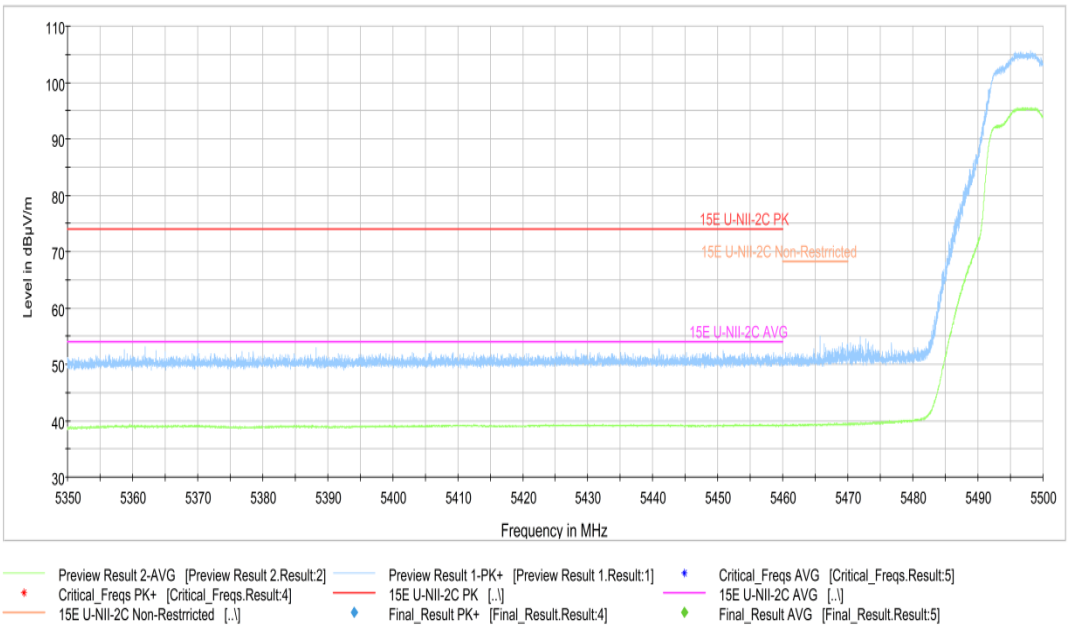


Fig.43 Band Edges (802.11a, 5500MHz)

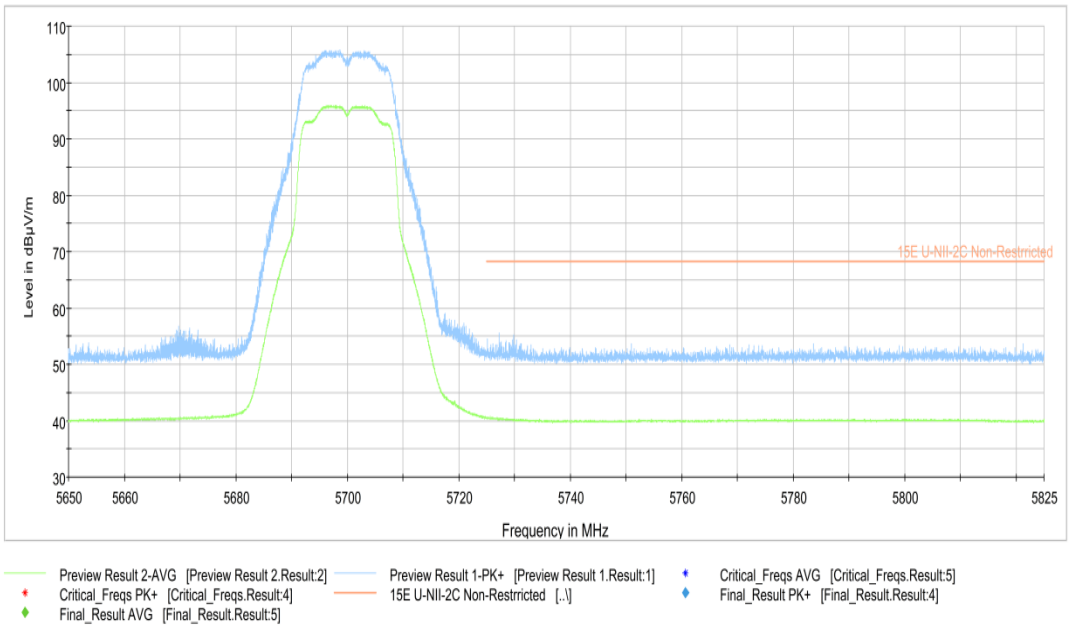


Fig.44 Band Edges (802.11a, 5700MHz)

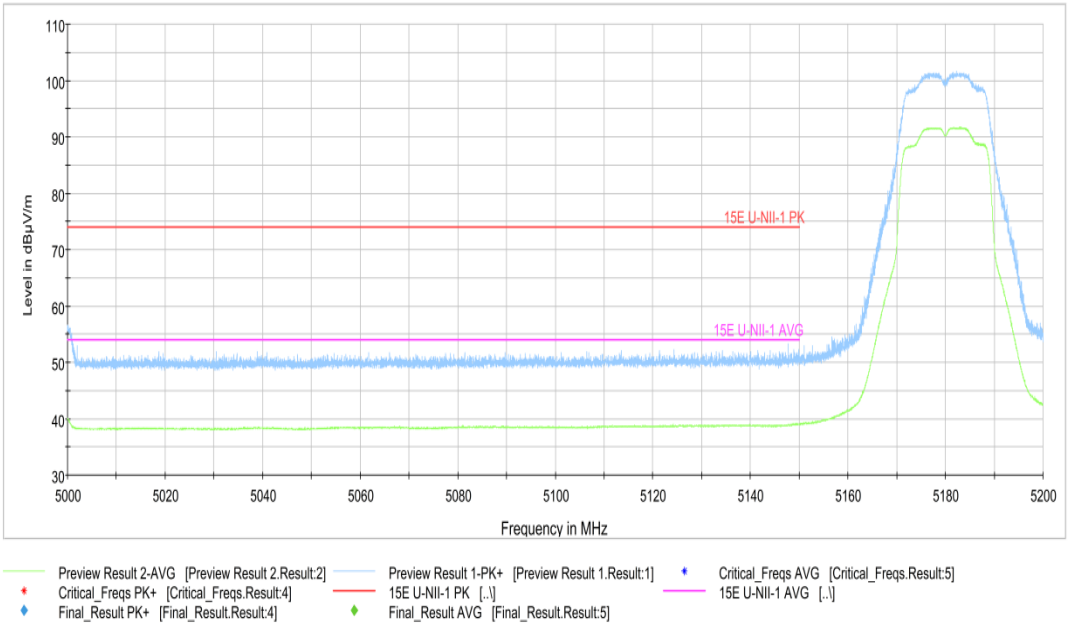


Fig.45 Band Edges (802.11n-HT20, 5180MHz)

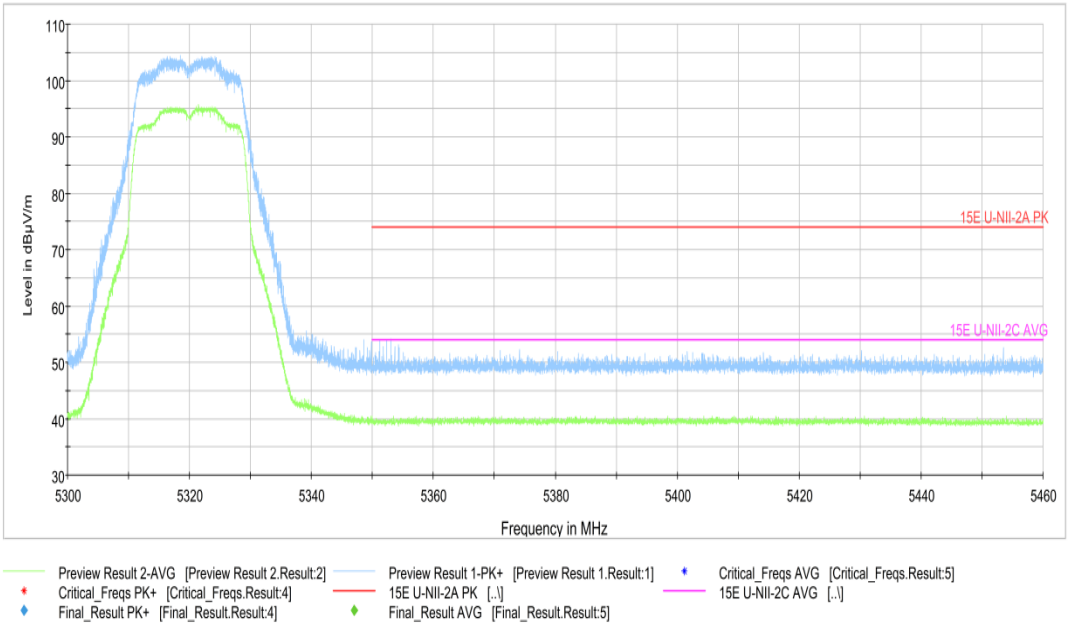


Fig.46 Band Edges (802.11n-HT20, 5320MHz)

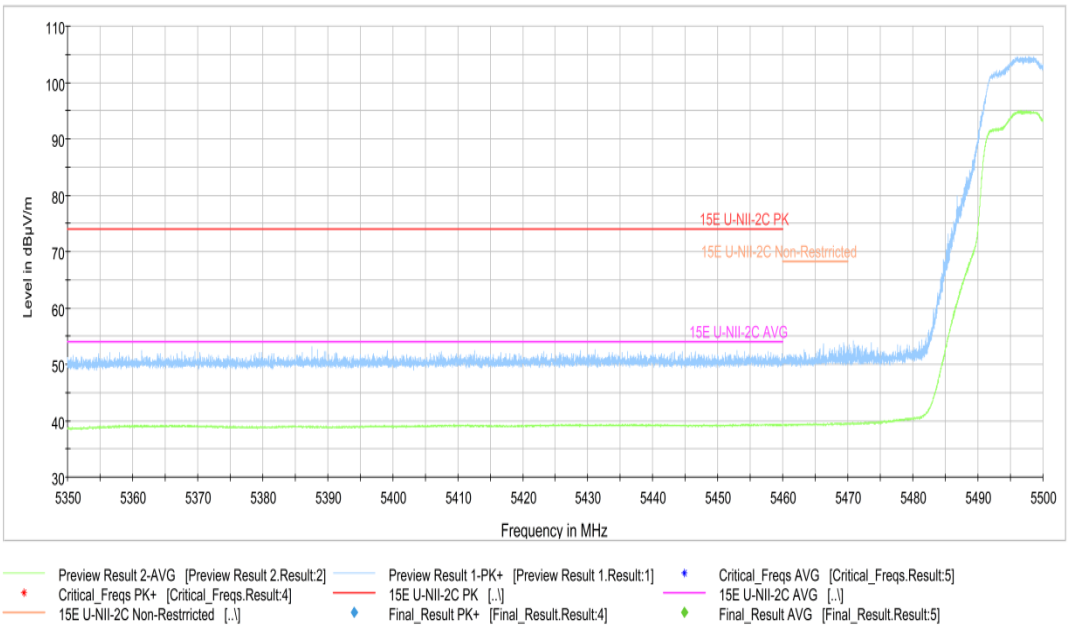


Fig.47 Band Edges (802.11n-HT20, 5500MHz)

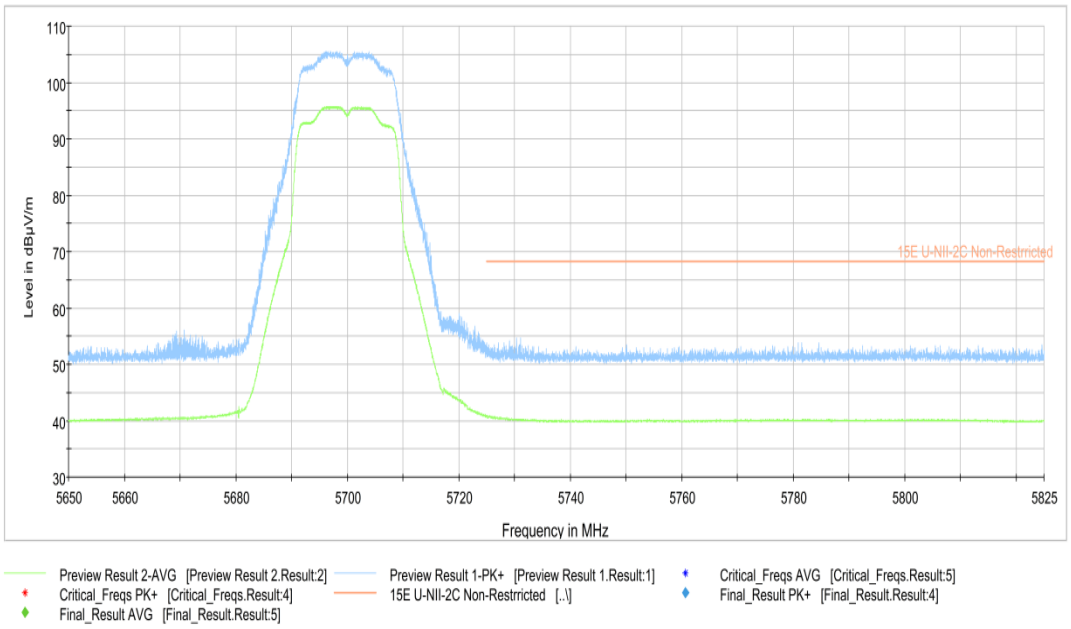


Fig.48 Band Edges (802.11n-HT20, 5700MHz)

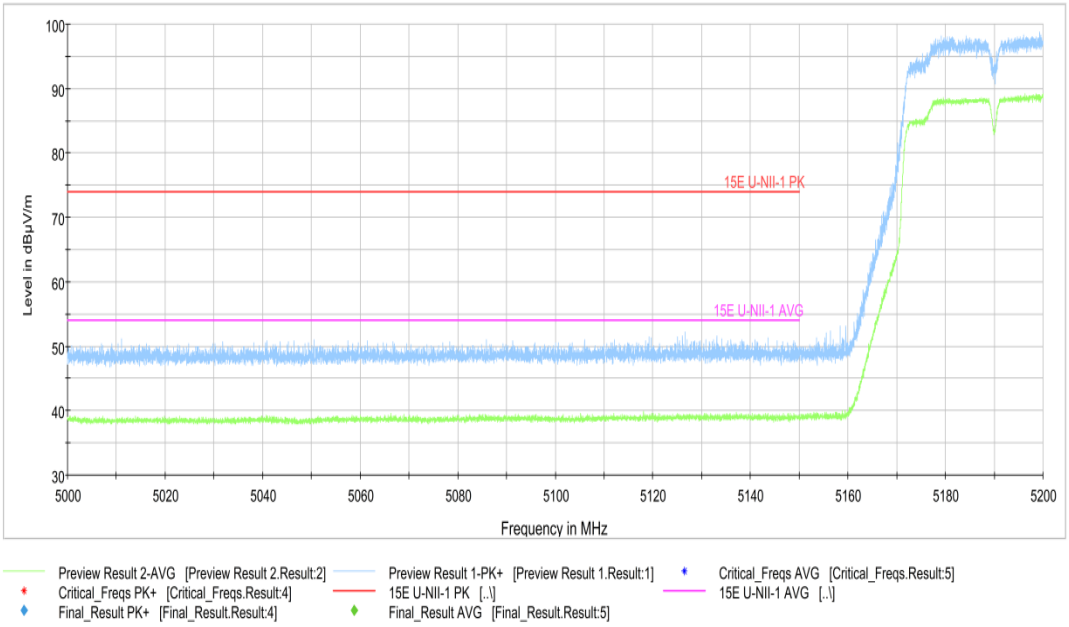


Fig.49 Band Edges (802.11n-HT40, 5190MHz)

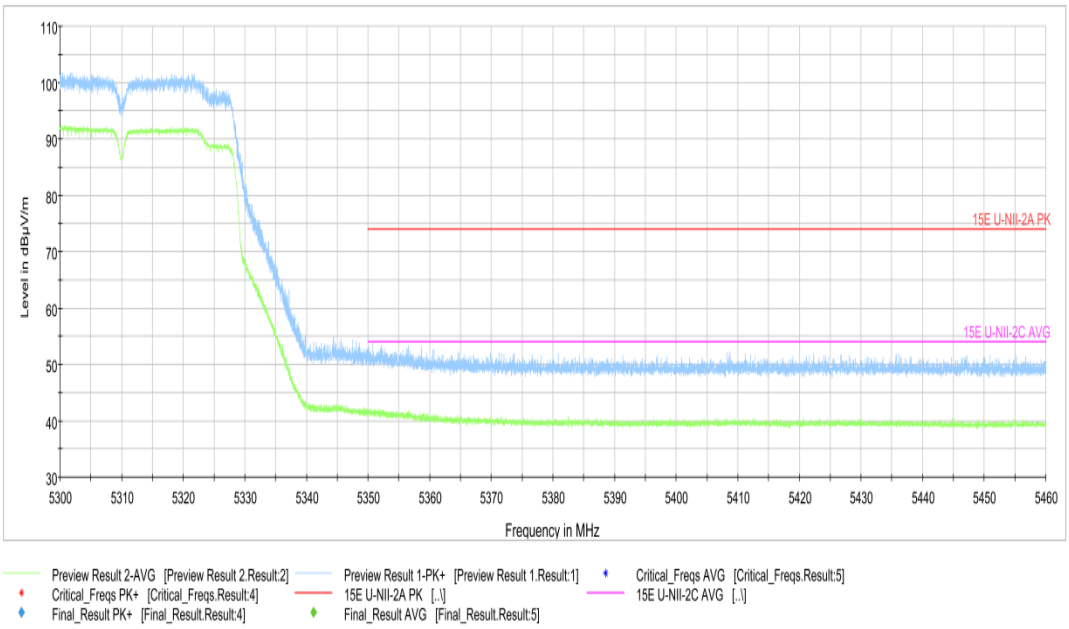


Fig.50 Band Edges (802.11n-HT40, 5310MHz)

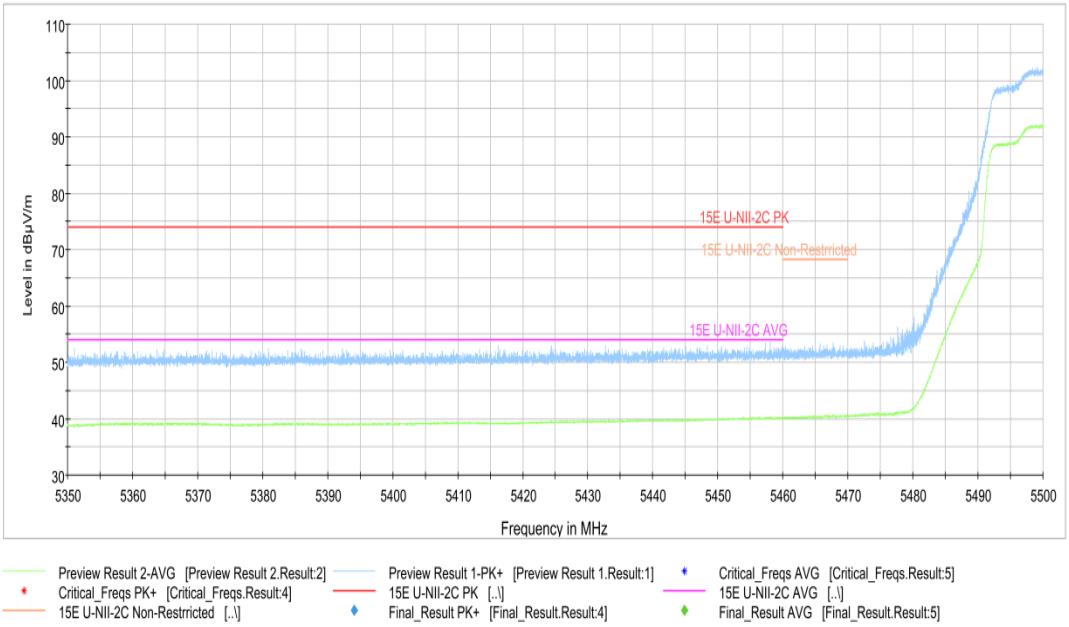


Fig.51 Band Edges (802.11n-HT40, 5510MHz)

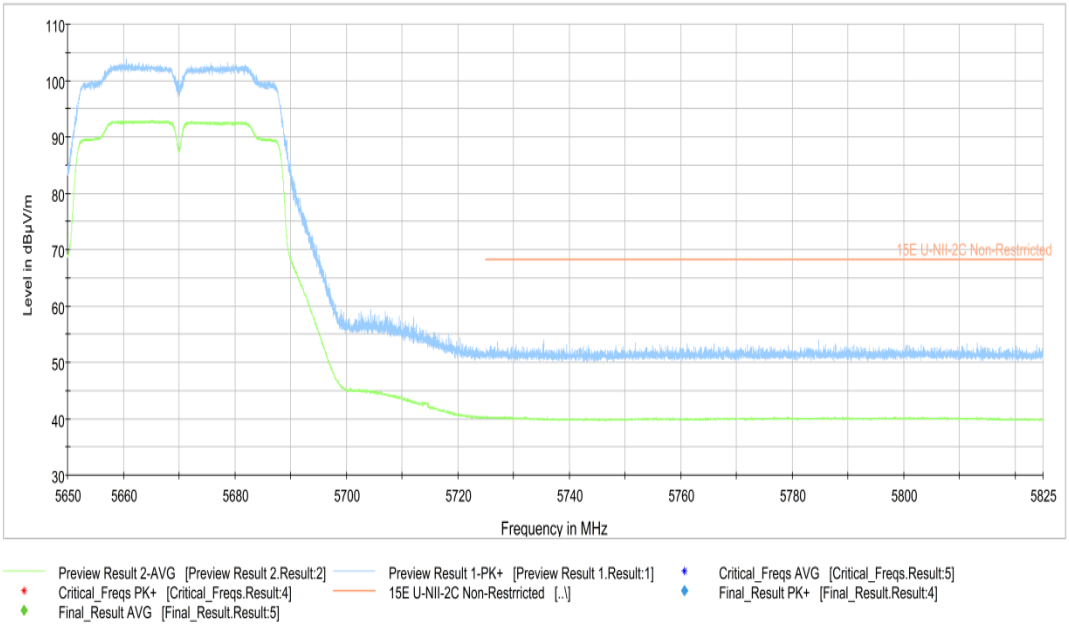


Fig.52 Band Edges (802.11n-HT40, 5670MHz)

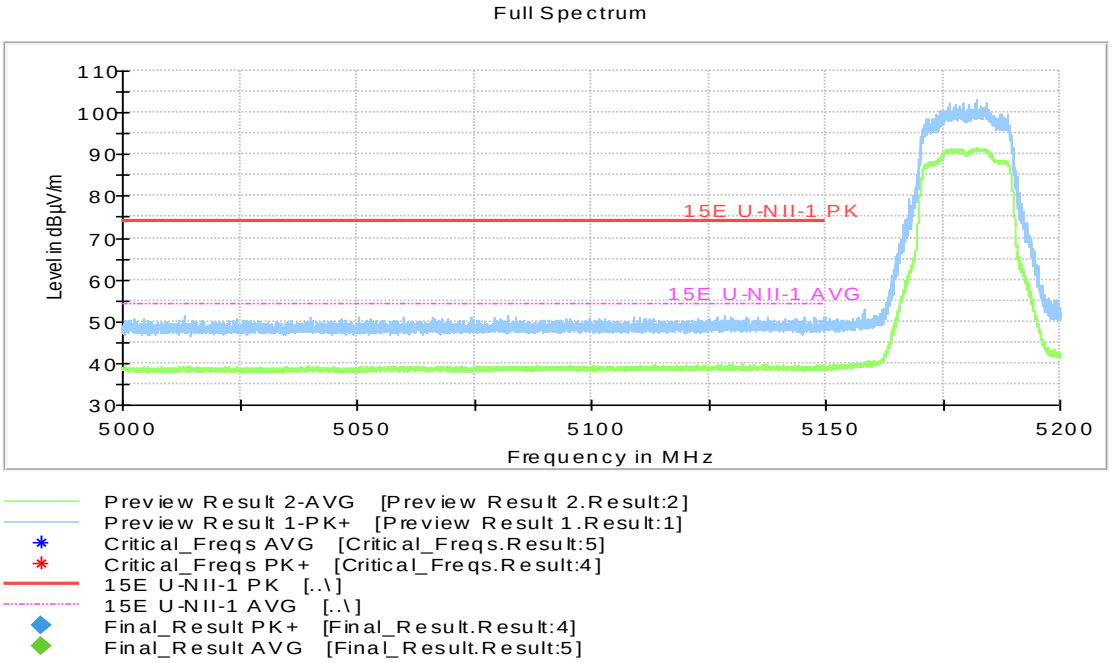


Fig.53 Band Edges (802.11ax-HT20, 5180MHz)

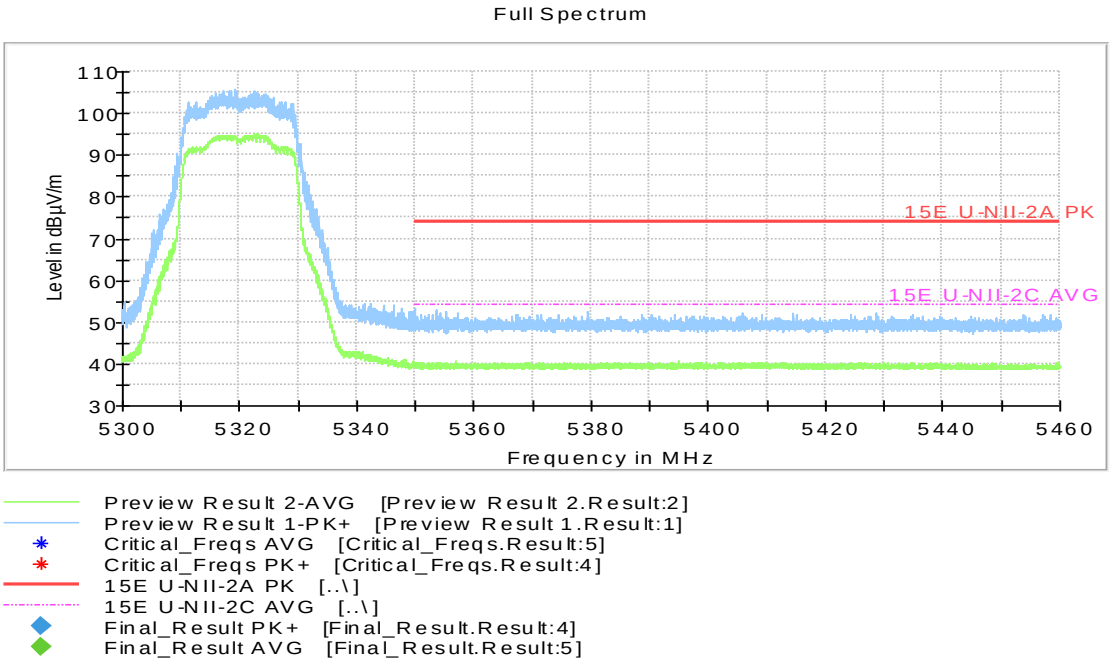


Fig.54 Band Edges (802.11ax-HT20, 5320MHz)

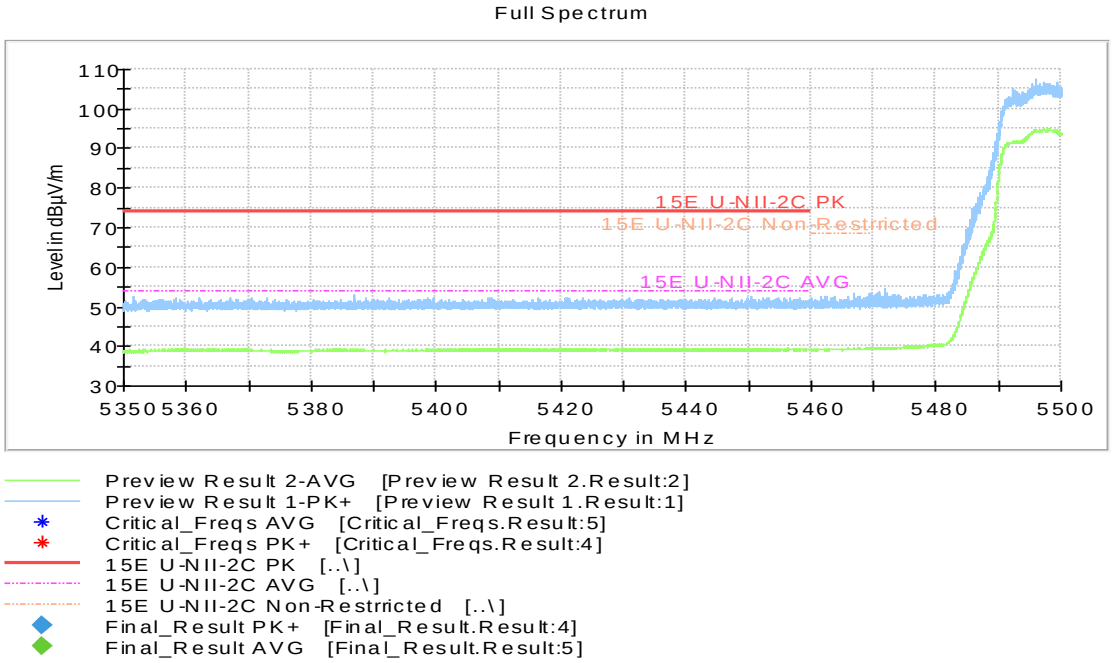


Fig.55 Band Edges (802.11ax-HT20, 5500MHz)

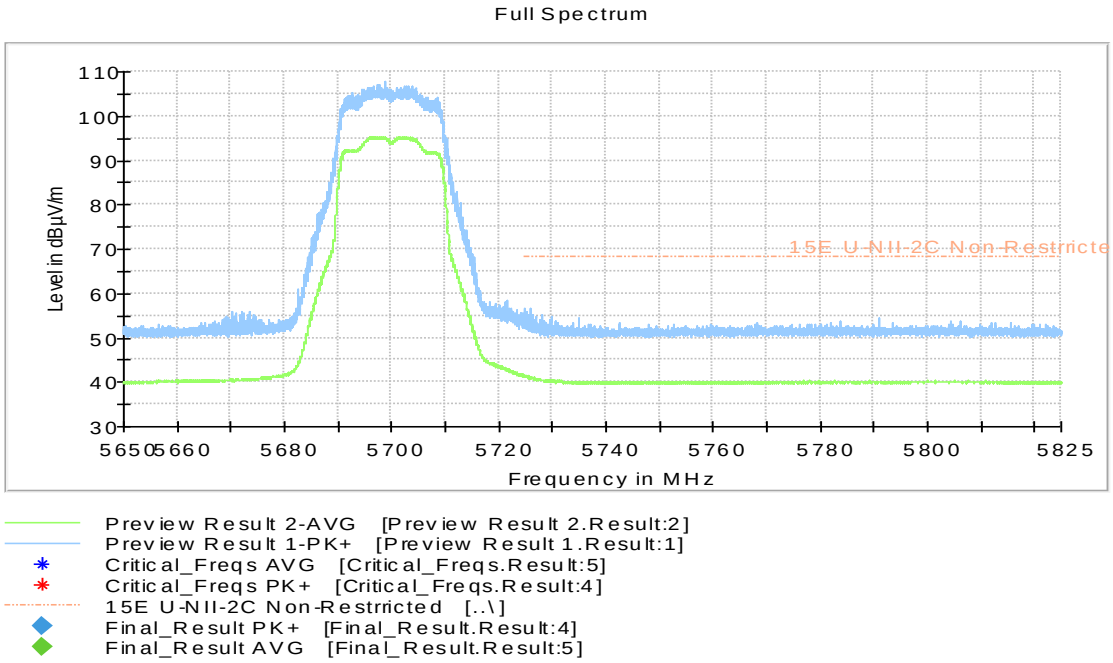


Fig.56 Band Edges (802.11ax-HT20, 5700MHz)

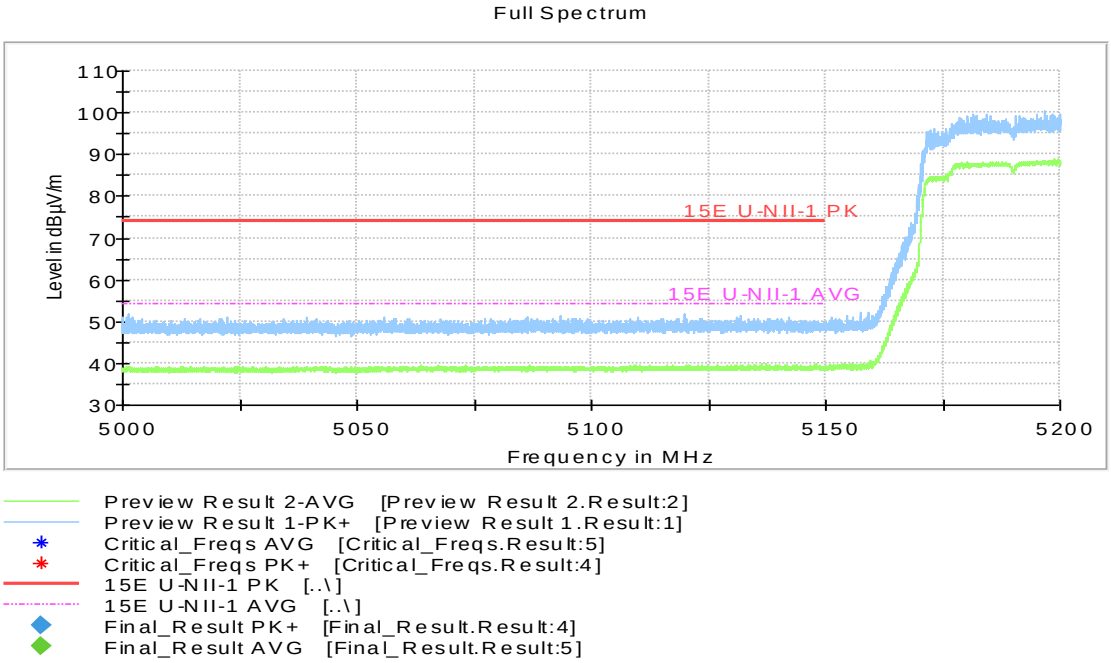


Fig.57 Band Edges (802.11ax-HT40, 5190MHz)

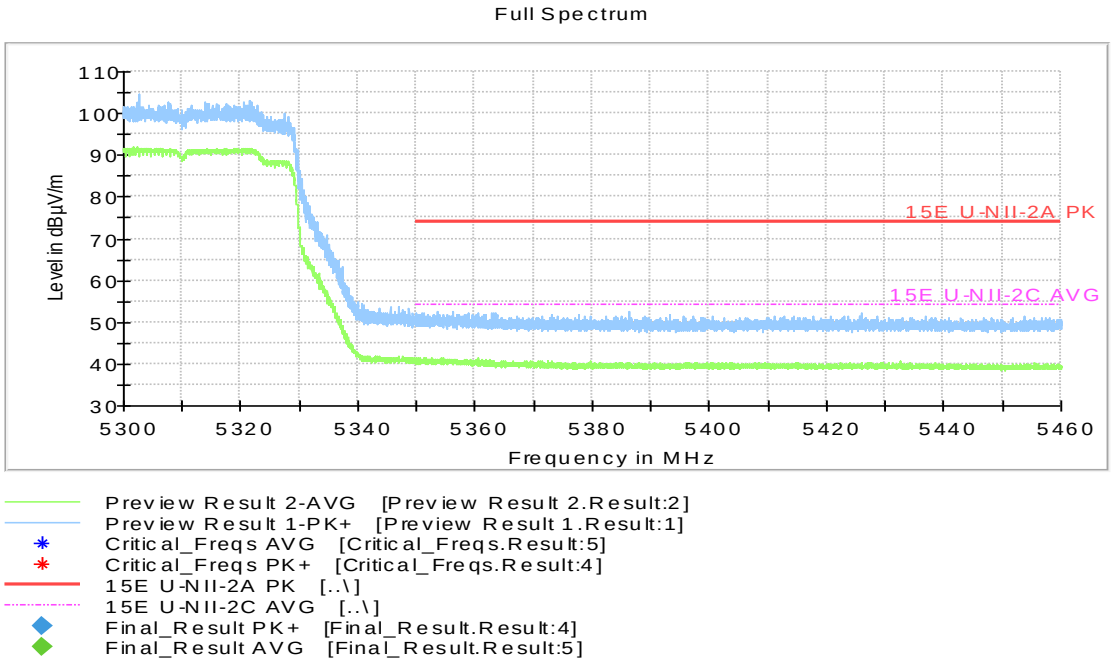


Fig.58 Band Edges (802.11ax-HT40, 5310MHz)

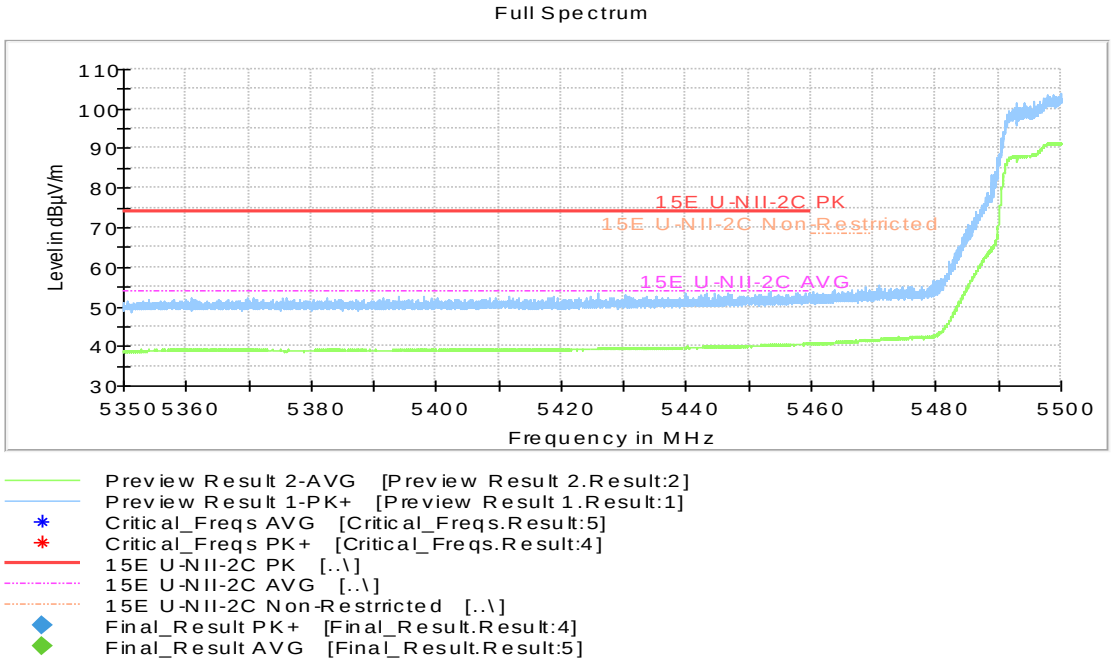


Fig.59 Band Edges (802.11ax-HT40, 5510MHz)

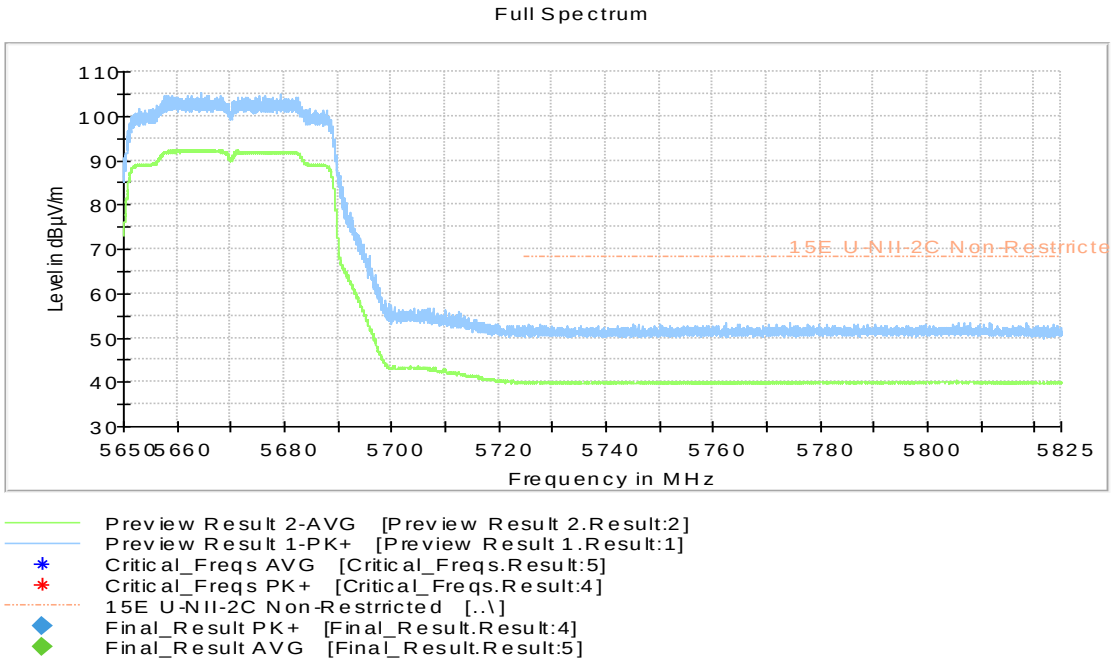


Fig.60 Band Edges (802.11ax-HT40, 5670MHz)

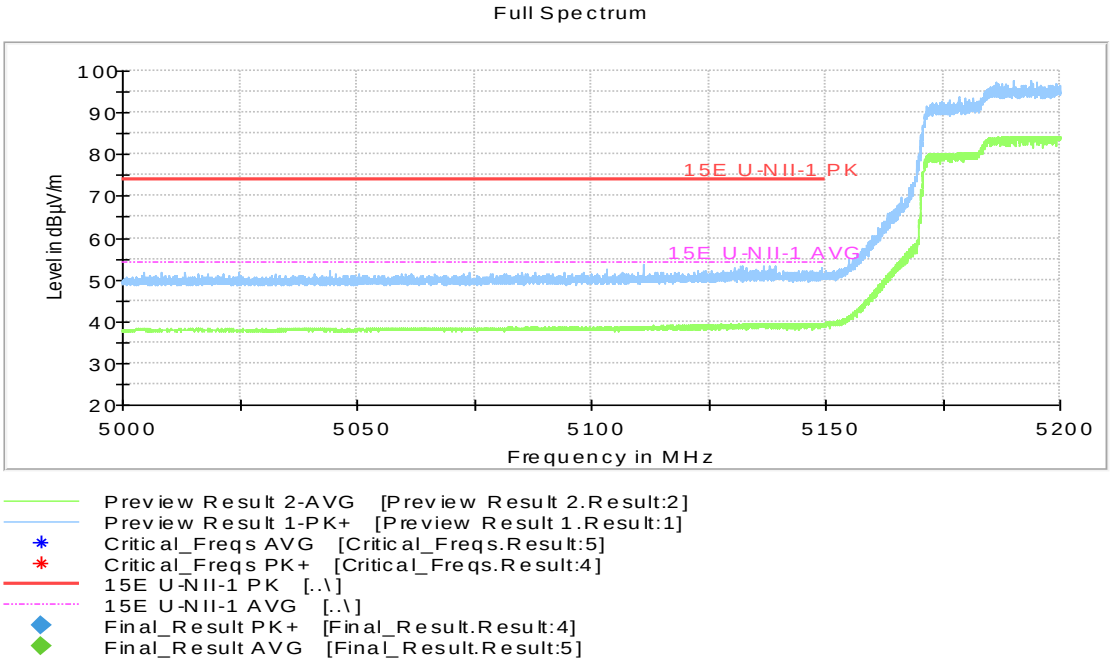


Fig.61 Band Edges (802.11ax-HT80, 5210MHz)

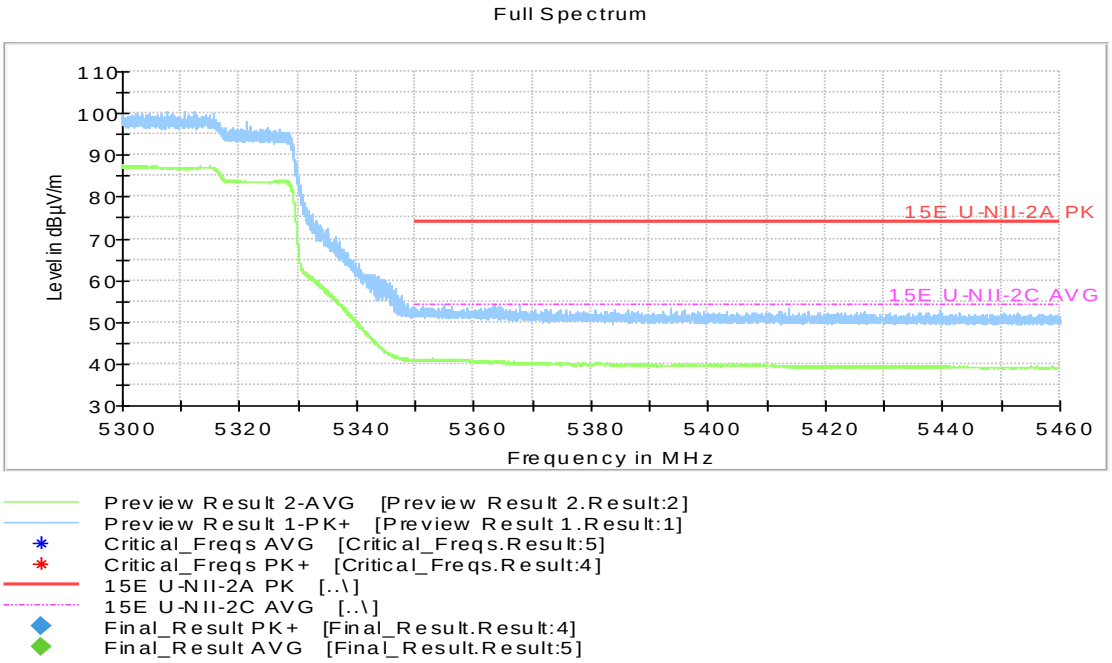


Fig.62 Band Edges (802.11ax-HT80, 5290MHz)

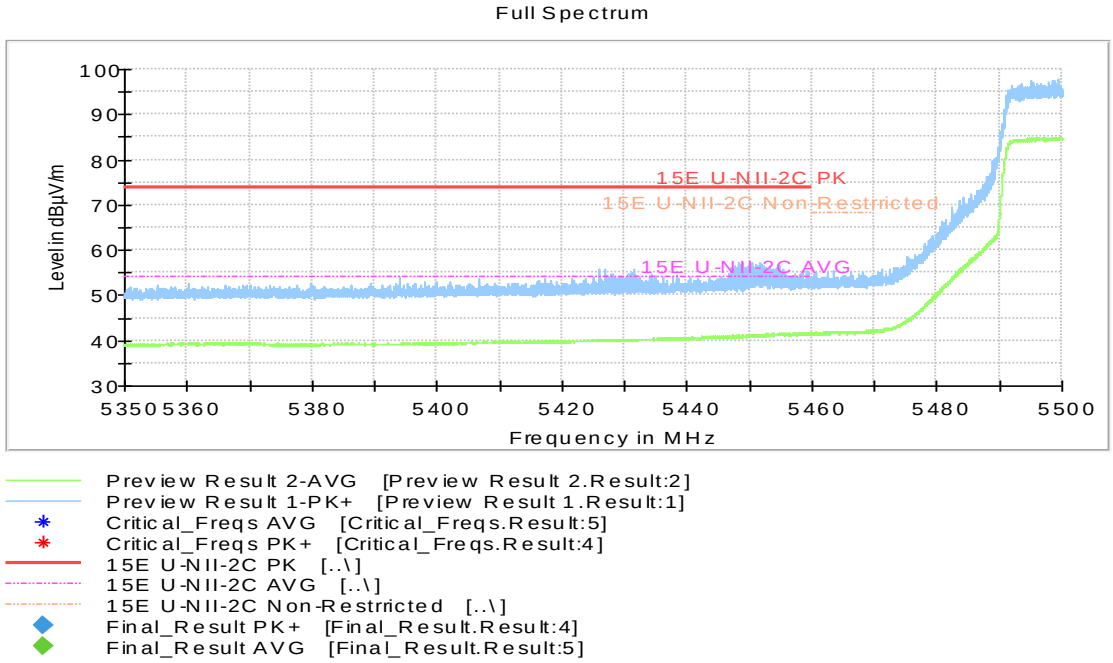


Fig.63 Band Edges (802.11ax-HT80, 5530MHz)

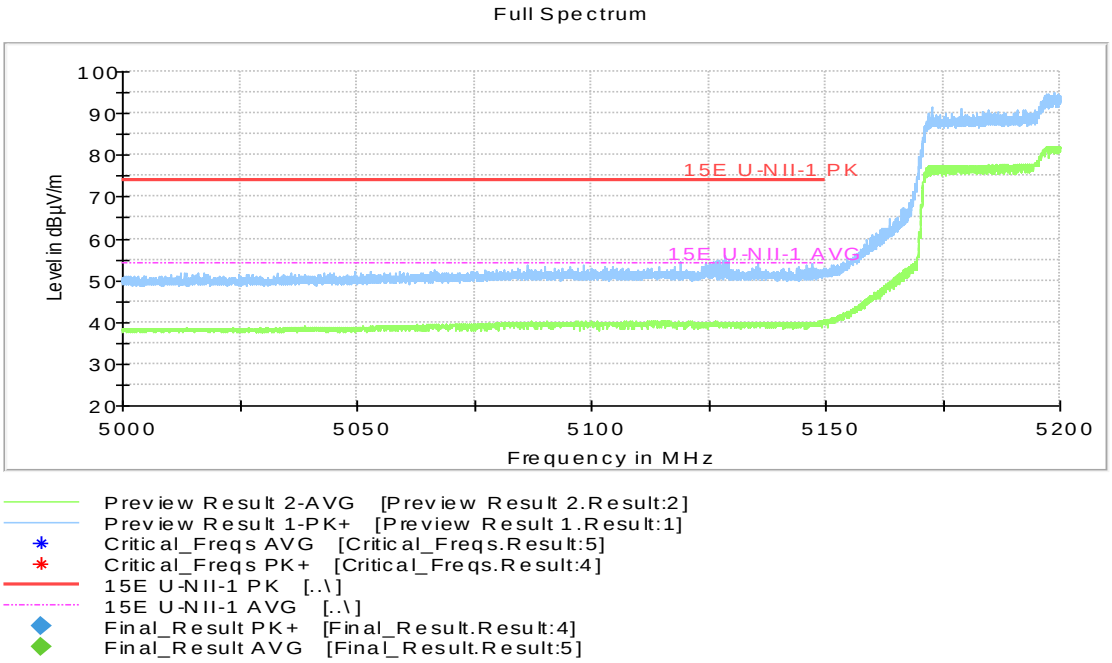


Fig.64 Band Edges (802.11ax-HT160, 5250MHz)

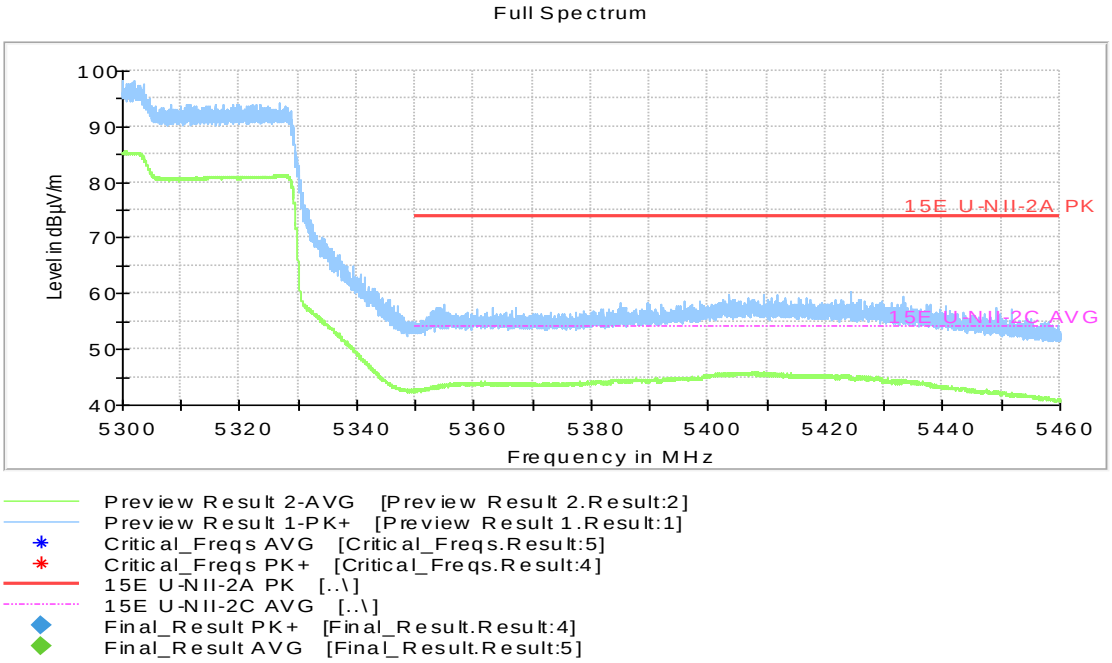


Fig.65 Band Edges (802.11ax-HT160, 5250MHz)

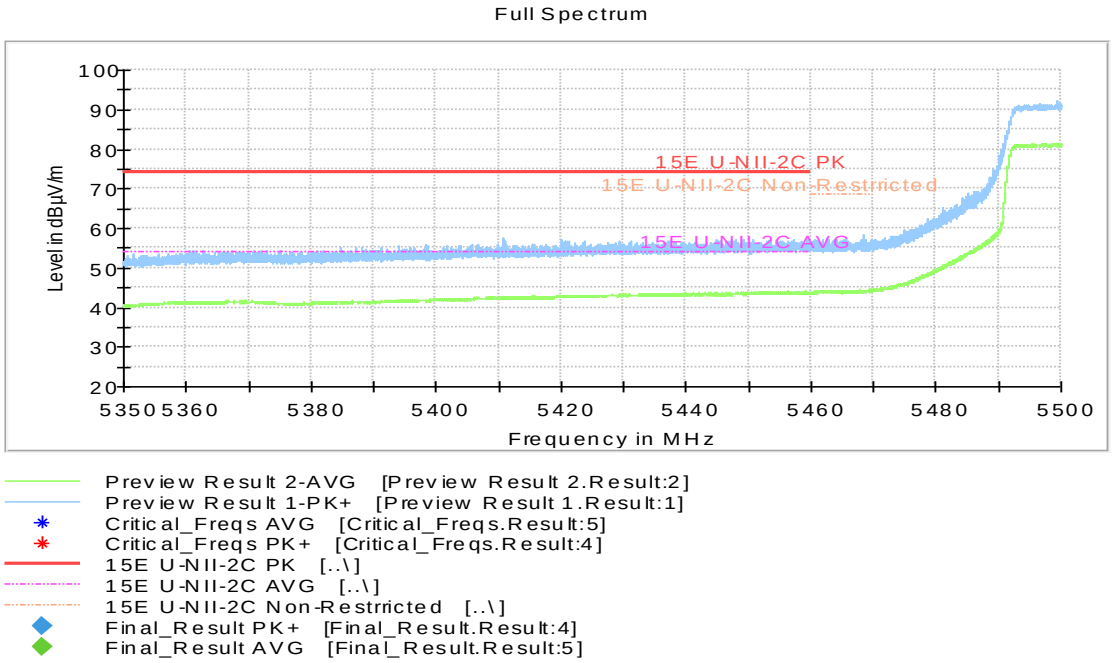


Fig.66 Band Edges (802.11ax-HT160, 5570MHz)

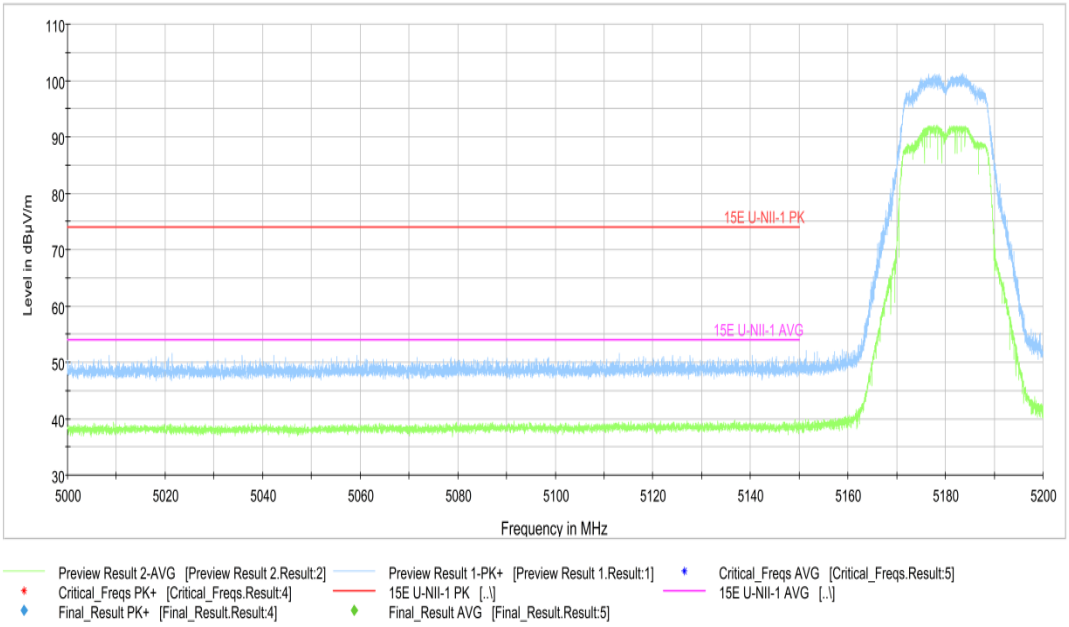


Fig.67 Band Edges (802.11ac-HT20, 5180MHz)

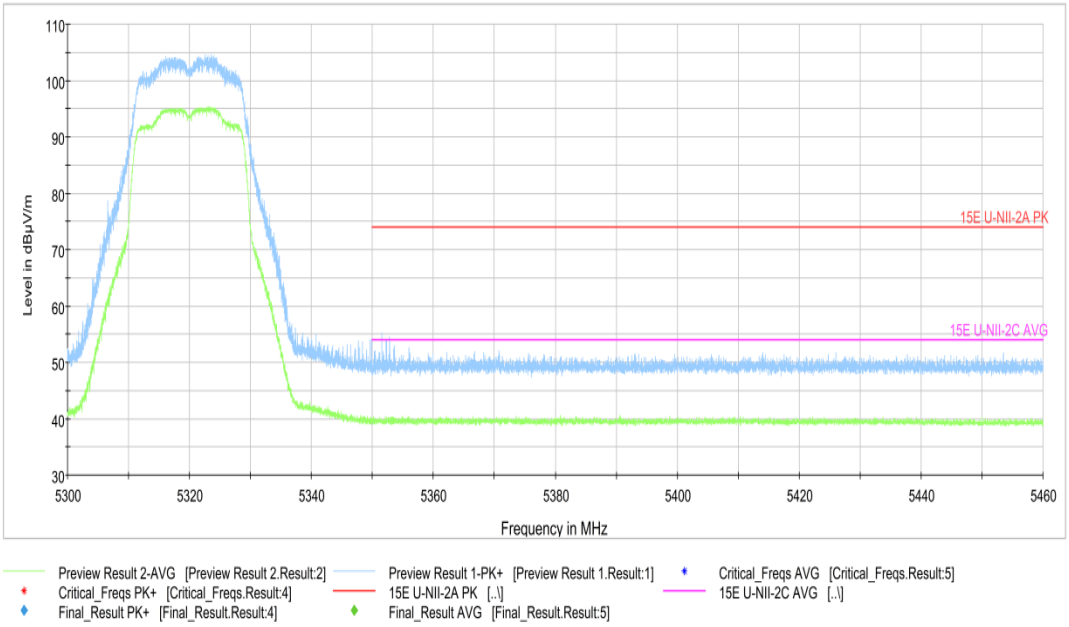


Fig.68 Band Edges (802.11ac-HT20, 5320MHz)

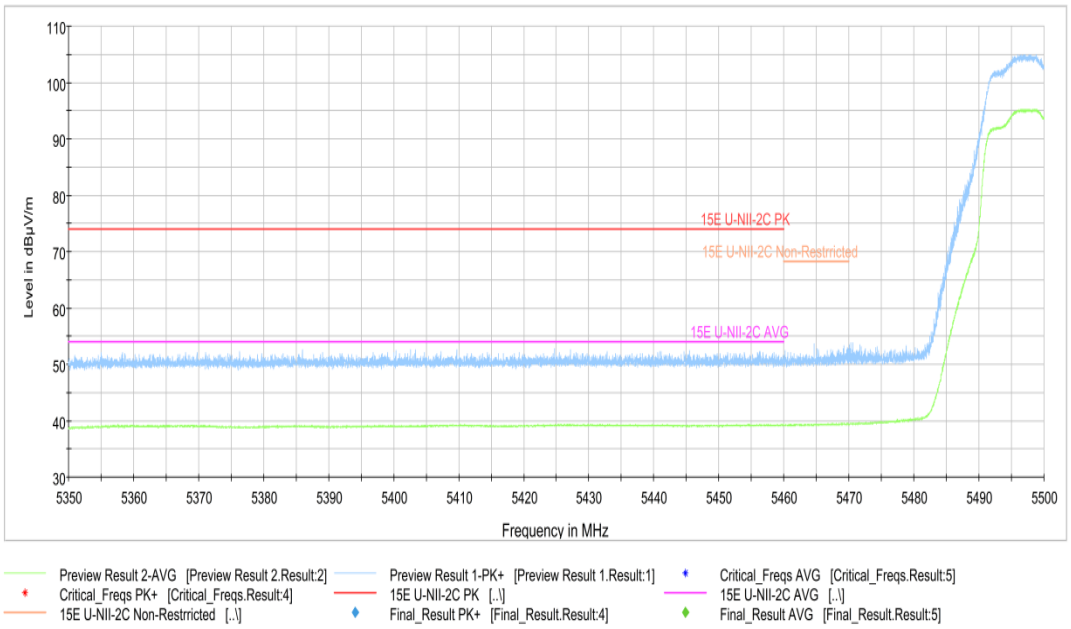


Fig.69 Band Edges (802.11ac-HT20, 5500MHz)

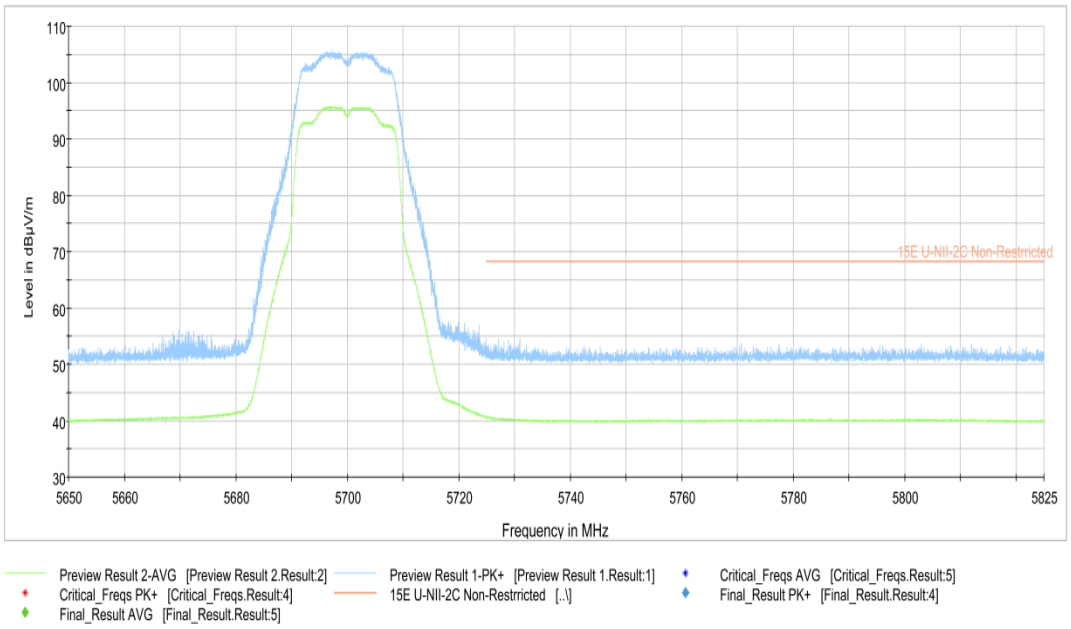


Fig.70 Band Edges (802.11ac-HT20, 5700MHz)