

802.11n-HT40

Channel 38

Frequency (MHz)	Result (dBuV/m)	Cable Loss (dB)	Antenna Factor	PMea (dBuV/m)	Polarization	Limit (dBuV/m)	Margin (dBuV/m)
17991.2	59.1	-25.5	46.7	37.9	V	74	14.9
17872.4	58.8	-25.5	46.7	37.6	V	74	15.2
17979.7	58.4	-25.5	46.7	37.2	V	74	15.6
17984.6	58.3	-25.5	46.7	37.1	H	74	15.7
17933.5	58.2	-25.5	46.7	37	H	74	15.8
5147.6	62.2	-17	33.7	45.5	H	74	11.8

Channel 46

Frequency (MHz)	Result (dBuV/m)	Cable Loss (dB)	Antenna Factor	PMea (dBuV/m)	Polarization	Limit (dBuV/m)	Margin (dBuV/m)
17997.8	58.3	-25.5	46.7	37.1	H	74	15.7
17875.7	58.2	-25.5	46.7	37	H	74	15.8
17957.1	58.2	-25.5	46.7	37	V	74	15.8
17983.5	58.2	-25.5	46.7	37	V	74	15.8
17885	58.1	-25.5	46.7	36.9	H	74	15.9
17979.7	58.1	-25.5	46.7	36.9	H	74	15.9

Channel 54

Frequency (MHz)	Result (dBuV/m)	Cable Loss (dB)	Antenna Factor	PMea (dBuV/m)	Polarization	Limit (dBuV/m)	Margin (dBuV/m)
17939.5	58.9	-25.5	46.7	37.7	V	74	15.1
17896.6	58.6	-25.5	46.7	37.4	V	74	15.4
17974.2	58.4	-25.5	46.7	37.2	H	74	15.6
17980.2	58.2	-25.5	46.7	37	V	74	15.8
17962.6	58.1	-25.5	46.7	36.9	V	74	15.9
17976.3	58.1	-25.5	46.7	36.9	H	74	15.9

Channel 62

Frequency (MHz)	Result (dBuV/m)	Cable Loss (dB)	Antenna Factor	PMea (dBuV/m)	Polarization	Limit (dBuV/m)	Margin (dBuV/m)
17931.8	58.7	-25.5	46.7	37.5	H	74	15.3
17977.5	58.5	-25.5	46.7	37.3	V	74	15.5
17950.5	58.2	-25.5	46.7	37	V	74	15.8
17946.7	58.1	-25.5	46.7	36.9	V	74	15.9
17944.5	58	-25.5	46.7	36.8	V	74	16
5350	59.3	-16.9	34	42.2	V	74	14.7

Channel 102

Frequency (MHz)	Result (dBuV/m)	Cable Loss (dB)	Antenna Factor	PMea (dBuV/m)	Polarization	Limit (dBuV/m)	Magin (dBuV/m)
17995.6	59.3	-25.5	46.7	38.1	V	74	14.7
17973.6	58.8	-25.5	46.7	37.6	V	74	15.2
17987.3	58.8	-25.5	46.7	37.6	H	74	15.2
17961.5	58.5	-25.5	46.7	37.3	H	74	15.5
17965.3	58.5	-25.5	46.7	37.3	H	74	15.5
5458.1	56.2	-16.8	34.2	38.8	H	74	17.8

Channel 118

Frequency (MHz)	Result (dBuV/m)	Cable Loss (dB)	Antenna Factor	PMea (dBuV/m)	Polarization	Limit (dBuV/m)	Magin (dBuV/m)
17997.2	59	-25.5	46.7	37.8	H	74	15
17990.7	58.6	-25.5	46.7	37.4	H	74	15.4
17958.8	58.4	-25.5	46.7	37.2	V	74	15.6
17991.8	58.3	-25.5	46.7	37.1	H	74	15.7
17943.9	58.2	-25.5	46.7	37	H	74	15.8
17637.5	58.1	-25.7	46	37.9	V	74	15.9

Channel 134

Frequency (MHz)	Result (dBuV/m)	Cable Loss (dB)	Antenna Factor	PMea (dBuV/m)	Polarization	Limit (dBuV/m)	Magin (dBuV/m)
17978.5	59.1	-25.5	46.7	37.9	H	74	14.9
17963.2	58.7	-25.5	46.7	37.5	V	74	15.3
17985.7	58.5	-25.5	46.7	37.3	V	74	15.5
17969.2	58.3	-25.5	46.7	37.1	H	74	15.7
17980.2	58.3	-25.5	46.7	37.1	V	74	15.7
5732.9	56.8	-16.3	34.3	38.8	H	74	17.2

Channel 142

Frequency (MHz)	Result (dBuV/m)	Cable Loss (dB)	Antenna Factor	PMea (dBuV/m)	Polarization	Limit (dBuV/m)	Magin (dBuV/m)
17952.2	59	-25.5	46.7	37.8	H	74	15
17980.2	58.1	-25.5	46.7	36.9	V	74	15.9
17945	58	-25.5	46.7	36.8	H	74	16
17963.2	58	-25.5	46.7	36.8	V	74	16
17979.7	58	-25.5	46.7	36.8	H	74	16
17945.5	57.9	-25.5	46.7	36.7	V	74	16.1

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Channel 38

Frequency (MHz)	Result (dBuV/m)	Cable Loss (dB)	Antenna Factor	PMea (dBuV/m)	Polarization	Limit (dBuV/m)	Margin (dBuV/m)
17944.5	59.4	-25.5	46.7	38.2	H	74	14.6
17993.4	59.1	-25.5	46.7	37.9	V	74	14.9
17954.3	58.6	-25.5	46.7	37.4	V	74	15.4
17978.5	58.4	-25.5	46.7	37.2	V	74	15.6
17881.2	58.3	-25.5	46.7	37.1	H	74	15.7
5149.8	62.2	-17	33.7	45.5	H	74	11.8

Channel 46

Frequency (MHz)	Result (dBuV/m)	Cable Loss (dB)	Antenna Factor	PMea (dBuV/m)	Polarization	Limit (dBuV/m)	Margin (dBuV/m)
17964.8	58.9	-25.5	46.7	37.7	V	74	15.1
17998.3	58.8	-25.5	46.7	37.6	H	74	15.2
17966.5	58.6	-25.5	46.7	37.4	V	74	15.4
17948.8	58.5	-25.5	46.7	37.3	V	74	15.5
17964.2	58.3	-25.5	46.7	37.1	V	74	15.7
17975.2	58.2	-25.5	46.7	37	H	74	15.8

Channel 54

Frequency (MHz)	Result (dBuV/m)	Cable Loss (dB)	Antenna Factor	PMea (dBuV/m)	Polarization	Limit (dBuV/m)	Margin (dBuV/m)
17972.5	58.8	-25.5	46.7	37.6	V	74	15.2
17847.1	58.4	-25.5	46.7	37.2	H	74	15.6
17990.1	58.4	-25.5	46.7	37.2	H	74	15.6
17992.3	58.4	-25.5	46.7	37.2	H	74	15.6
17981.3	58.3	-25.5	46.7	37.1	V	74	15.7
17971.4	58.2	-25.5	46.7	37	V	74	15.8

Channel 62

Frequency (MHz)	Result (dBuV/m)	Cable Loss (dB)	Antenna Factor	PMea (dBuV/m)	Polarization	Limit (dBuV/m)	Margin (dBuV/m)
17948.3	58.6	-25.5	46.7	37.4	H	74	15.4
17969.8	58.6	-25.5	46.7	37.4	V	74	15.4
17917.5	58.4	-25.5	46.7	37.2	H	74	15.6
17907.6	58.2	-25.5	46.7	37	H	74	15.8
17991.8	58.2	-25.5	46.7	37	H	74	15.8
5350.1	59	-16.9	34	41.9	V	74	15

Channel 102

Frequency (MHz)	Result (dBuV/m)	Cable Loss (dB)	Antenna Factor	PMea (dBuV/m)	Polarization	Limit (dBuV/m)	Magin (dBuV/m)
17759.1	58.9	-25.5	46.7	37.7	V	74	15.1
17975.8	58.9	-25.5	46.7	37.7	V	74	15.1
17884.5	58.6	-25.5	46.7	37.4	H	74	15.4
17899.3	58.5	-25.5	46.7	37.3	V	74	15.5
17945.5	58.5	-25.5	46.7	37.3	V	74	15.5
5459.9	56.5	-16.8	34.2	39.1	H	74	17.5

Channel 118

Frequency (MHz)	Result (dBuV/m)	Cable Loss (dB)	Antenna Factor	PMea (dBuV/m)	Polarization	Limit (dBuV/m)	Magin (dBuV/m)
17900.5	59.1	-25.5	46.7	37.9	H	74	14.9
17980.8	59	-25.5	46.7	37.8	V	74	15
17990.1	58.7	-25.5	46.7	37.5	H	74	15.3
17910.3	58.4	-25.5	46.7	37.2	H	74	15.6
17968.1	58.4	-25.5	46.7	37.2	H	74	15.6
17969.2	58.3	-25.5	46.7	37.1	V	74	15.7

Channel 134

Frequency (MHz)	Result (dBuV/m)	Cable Loss (dB)	Antenna Factor	PMea (dBuV/m)	Polarization	Limit (dBuV/m)	Magin (dBuV/m)
17981.3	58.5	-25.5	46.7	37.3	V	74	15.5
17982.4	58.5	-25.5	46.7	37.3	V	74	15.5
17958.8	58.4	-25.5	46.7	37.2	V	74	15.6
17967.5	58.3	-25.5	46.7	37.1	V	74	15.7
17993.4	58.3	-25.5	46.7	37.1	V	74	15.7
5727.2	57.8	-16.3	34.3	39.8	H	74	16.2

Channel 142

Frequency (MHz)	Result (dBuV/m)	Cable Loss (dB)	Antenna Factor	PMea (dBuV/m)	Polarization	Limit (dBuV/m)	Magin (dBuV/m)
17939.5	58.9	-25.5	46.7	37.7	V	74	15.1
17890	58.7	-25.5	46.7	37.5	H	74	15.3
17978	58.4	-25.5	46.7	37.2	H	74	15.6
17949.4	58.2	-25.5	46.7	37	H	74	15.8
17971.4	58.2	-25.5	46.7	37	V	74	15.8
17856.5	58.1	-25.5	46.7	36.9	H	74	15.9

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Channel 42

Frequency (MHz)	Result (dBuV/m)	Cable Loss (dB)	Antenna Factor	PMea (dBuV/m)	Polarization	Limit (dBuV/m)	Margin (dBuV/m)
17927.4	58.4	-25.5	46.7	37.2	V	74	15.6
17970.8	58.4	-25.5	46.7	37.2	V	74	15.6
17921.9	58.2	-25.5	46.7	37	H	74	15.8
17950.5	58.2	-25.5	46.7	37	H	74	15.8
17956	58.2	-25.5	46.7	37	H	74	15.8
5144.2	54.7	-17	33.7	38	V	74	19.3

Channel 58

Frequency (MHz)	Result (dBuV/m)	Cable Loss (dB)	Antenna Factor	PMea (dBuV/m)	Polarization	Limit (dBuV/m)	Margin (dBuV/m)
17978	59	-25.5	46.7	37.8	H	74	15
17974.7	58.8	-25.5	46.7	37.6	H	74	15.2
17989	58.7	-25.5	46.7	37.5	H	74	15.3
17961	58.6	-25.5	46.7	37.4	H	74	15.4
17967.5	58.4	-25.5	46.7	37.2	V	74	15.6
5358.2	61	-16.9	34	43.9	V	74	13

Channel 106

Frequency (MHz)	Result (dBuV/m)	Cable Loss (dB)	Antenna Factor	PMea (dBuV/m)	Polarization	Limit (dBuV/m)	Margin (dBuV/m)
5458.6	60.3	-36.8	33.4	63.7	H	74	13.7
17981.3	58.4	-25.5	43.4	40.5	H	74	15.6
17990.7	58.4	-25.5	43.4	40.5	V	74	15.6
17993.4	58.4	-25.5	43.4	40.5	H	74	15.6
17982.4	58.3	-25.5	43.4	40.4	H	74	15.7
17970.9	58.3	-25.5	43.4	40.4	H	74	15.7

Channel 122

Frequency (MHz)	Result (dBuV/m)	Cable Loss (dB)	Antenna Factor	PMea (dBuV/m)	Polarization	Limit (dBuV/m)	Margin (dBuV/m)
5760.1	57.2	-36.5	34.2	59.5	H	74	16.8
17944.5	58.7	-25.5	43.4	40.8	H	74	15.3
17972.0	58.7	-25.5	43.4	40.8	V	74	15.3
17985.2	58.6	-25.5	43.4	40.7	H	74	15.4
17895.5	58.3	-25.7	43.4	40.6	H	74	15.7
17977.5	58.2	-25.5	43.4	40.3	H	74	15.8

Channel 138

Frequency (MHz)	Result (dBuV/m)	Cable Loss (dB)	Antenna Factor	PMea (dBuV/m)	Polarization	Limit (dBuV/m)	Margin (dBuV/m)
17974.7	59.5	-17.7	45.6	31.6	H	74	14.5
17965.9	59.3	-17.7	45.6	31.4	H	74	14.7
17937.3	58.8	-17.7	45.6	30.9	V	74	15.2
17980.2	58.8	-17.7	45.6	30.9	H	74	15.2
17879.6	58.2	-18.5	45.6	31.1	H	74	15.8
17984.1	58.1	-17.7	45.6	30.2	H	74	15.9

Sample calculation:

802.11ac 80MHz CH122–Peak, 5760.1 MHz

Result (dBuV/m) = PMea(59.5) + Cable Loss(-36.5) + Antenna Factor(34.2) =57.2dBuV/m

Measurement Results BY EUT5:

Average

802.11a

Channel 36

Frequency (MHz)	Result (dBμV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	P _{Mea} (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
17985.2	42.16	-25.5	46.66	21	54	11.84	V
17987.9	42.07	-25.5	46.66	20.91	54	11.93	H
13253.5	37.47	-29.67	39.55	27.59	54	16.53	V
13323.4	37.47	-29.49	39.71	27.25	54	16.53	H
5148	42.17	-27.61	33.67	36.11	54	11.83	H
5148.3	42.15	-27.61	33.67	36.09	54	11.85	H

Channel 40

Frequency (MHz)	Result (dBμV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	P _{Mea} (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
17976.9	42.07	-25.5	46.66	20.91	54	11.93	V
17974.7	42.05	-25.5	46.66	20.89	54	11.95	V
13314.5	37.44	-29.49	39.71	27.22	54	16.56	V
13295.3	37.37	-29.49	39.71	27.15	54	16.63	V
11843.9	36.12	-31.85	39.05	28.92	54	17.88	H
11820.2	36.07	-31.85	39.05	28.87	54	17.93	H

Channel 48

Frequency (MHz)	Result (dBμV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	P _{Mea} (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
17978.5	42.18	-25.5	46.66	21.02	54	11.82	H
17992.3	42.07	-25.5	46.66	20.91	54	11.93	H
13251.9	37.43	-29.67	39.55	27.55	54	16.57	H
13256.8	37.39	-29.67	39.55	27.51	54	16.61	V
11796.6	36.11	-31.85	39.05	28.91	54	17.89	V
11818.6	36.05	-31.85	39.05	28.85	54	17.95	V

Channel 52

Frequency (MHz)	Result (dB μ V/m)	Cable Loss (dB)	Antenna Factor (dB/m)	P _{Mea} (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17995.6	42.01	-25.5	46.66	20.85	54	11.99	H
17986.8	42	-25.5	46.66	20.84	54	12	V
13253.5	37.53	-29.67	39.55	27.65	54	16.47	H
13260.1	37.43	-29.67	39.55	27.55	54	16.57	H
11834.5	36.09	-31.85	39.05	28.89	54	17.91	V
11804.8	36.07	-31.85	39.05	28.87	54	17.93	V

Channel 56

Frequency (MHz)	Result (dB μ V/m)	Cable Loss (dB)	Antenna Factor (dB/m)	P _{Mea} (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17998.3	42.09	-25.5	46.66	20.93	54	11.91	H
17985.2	42.01	-25.5	46.66	20.85	54	11.99	V
13254.6	37.43	-29.67	39.55	27.55	54	16.57	V
13261.2	37.38	-29.67	39.55	27.5	54	16.62	H
11812	36.13	-31.85	39.05	28.93	54	17.87	V
11813.1	36.11	-31.85	39.05	28.91	54	17.89	V

Channel 64

Frequency (MHz)	Result (dB μ V/m)	Cable Loss (dB)	Antenna Factor (dB/m)	P _{Mea} (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17993.4	42.13	-25.5	46.66	20.97	54	11.87	V
17958.2	42.11	-25.5	46.66	20.95	54	11.89	H
13352	37.4	-29.49	39.71	27.18	54	16.6	V
13353.6	37.36	-29.49	39.71	27.14	54	16.64	V
5357.6	42.19	-27.43	34.01	35.61	54	11.81	H
5356.8	42.15	-27.43	34.01	35.57	54	11.85	H

Channel 100

Frequency (MHz)	Result (dB μ V/m)	Cable Loss (dB)	Antenna Factor (dB/m)	P _{Mea} (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17994.5	42.1	-25.5	46.66	20.94	54	11.9	H
17958.8	42.02	-25.5	46.66	20.86	54	11.98	H
13334.4	37.31	-29.49	39.71	27.09	54	16.69	V
13259.5	37.3	-29.67	39.55	27.42	54	16.7	H
5458.9	41.93	-27.18	34.17	34.94	54	12.07	H
5458.6	41.92	-27.18	34.17	34.93	54	12.08	H

Channel 120

Frequency (MHz)	Result (dB μ V/m)	Cable Loss (dB)	Antenna Factor (dB/m)	P _{Mea} (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17968.1	42.06	-25.5	46.66	20.9	54	11.94	H
17996.2	42.05	-25.5	46.66	20.89	54	11.95	V
13350.3	37.34	-29.49	39.71	27.12	54	16.66	H
13298.6	37.33	-29.49	39.71	27.11	54	16.67	V
11816.9	36.29	-31.85	39.05	29.09	54	17.71	V
11884	36.15	-31.85	39.05	28.95	54	17.85	H

Channel 140

Frequency (MHz)	Result (dB μ V/m)	Cable Loss (dB)	Antenna Factor (dB/m)	P _{Mea} (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17992.3	42.25	-25.5	46.66	21.09	54	11.75	V
17991.2	42.11	-25.5	46.66	20.95	54	11.89	V
13321.7	37.36	-29.49	39.71	27.14	54	16.64	H
13286.5	37.3	-29.67	39.55	27.42	54	16.7	V
11793.3	36.12	-31.99	38.98	29.13	54	17.88	V
11822.4	36.11	-31.85	39.05	28.91	54	17.89	V

Channel 144

Frequency (MHz)	Result (dB μ V/m)	Cable Loss (dB)	Antenna Factor (dB/m)	P _{Mea} (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17992.3	42.11	-25.5	46.66	20.95	54	11.89	V
17998.3	42.01	-25.5	46.66	20.85	54	11.99	V
13347.5	37.43	-29.49	39.71	27.21	54	16.57	H
13281.5	37.36	-29.67	39.55	27.48	54	16.64	V
11801	36.22	-31.85	39.05	29.02	54	17.78	V
11820.8	36.19	-31.85	39.05	28.99	54	17.81	H

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Channel 38

Frequency (MHz)	Result (dB μ V/m)	Cable Loss (dB)	Antenna Factor (dB/m)	P _{Mea} (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17996.2	42.11	-25.5	46.66	20.95	54	11.89	H
17977.5	42.09	-25.5	46.66	20.93	54	11.91	H
13255.7	37.43	-29.67	39.55	27.55	54	16.57	V
13260.6	37.36	-29.67	39.55	27.48	54	16.64	H
5150	49.68	-27.61	33.67	43.62	54	4.32	H
5149.9	49.61	-27.61	33.67	43.55	54	4.39	H

Channel 46

Frequency (MHz)	Result (dB μ V/m)	Cable Loss (dB)	Antenna Factor (dB/m)	P _{Mea} (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17981.3	42.24	-25.5	46.66	21.08	54	11.76	V
17992.3	41.99	-25.5	46.66	20.83	54	12.01	V
13336.5	37.39	-29.49	39.71	27.17	54	16.61	V
13251.9	37.38	-29.67	39.55	27.5	54	16.62	V
11819.7	36.13	-31.85	39.05	28.93	54	17.87	V
11794.9	36.12	-31.99	38.98	29.13	54	17.88	V

Channel 54

Frequency (MHz)	Result (dB μ V/m)	Cable Loss (dB)	Antenna Factor (dB/m)	P _{Mea} (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17971.4	41.99	-25.5	46.66	20.83	54	12.01	H
17990.1	41.99	-25.5	46.66	20.83	54	12.01	H
13321.7	37.49	-29.49	39.71	27.27	54	16.51	H
13279.9	37.41	-29.67	39.55	27.53	54	16.59	H
11819.1	36.19	-31.85	39.05	28.99	54	17.81	V
11793.3	36.14	-31.99	38.98	29.15	54	17.86	V

Channel 62

Frequency (MHz)	Result (dB μ V/m)	Cable Loss (dB)	Antenna Factor (dB/m)	P _{Mea} (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17982.4	42.28	-25.5	46.66	21.12	54	11.72	H
17994.5	42.05	-25.5	46.66	20.89	54	11.95	H
13250.2	37.45	-29.67	39.55	27.57	54	16.55	H
13307.4	37.36	-29.49	39.71	27.14	54	16.64	H
5350.1	44.29	-27.43	34.01	37.71	54	9.71	H
5350.3	44.22	-27.43	34.01	37.64	54	9.78	H

Channel 102

Frequency (MHz)	Result (dB μ V/m)	Cable Loss (dB)	Antenna Factor (dB/m)	P _{Mea} (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17978.5	42.09	-25.5	46.66	20.93	54	11.91	H
17985.2	42	-25.5	46.66	20.84	54	12	H
13275.5	37.43	-29.67	39.55	27.55	54	16.57	H
13338.2	37.43	-29.49	39.71	27.21	54	16.57	H
5459.3	42.15	-27.18	34.17	35.16	54	11.85	H
5458	42.06	-27.18	34.17	35.07	54	11.94	H

Channel 118

Frequency (MHz)	Result (dB μ V/m)	Cable Loss (dB)	Antenna Factor (dB/m)	P _{Mea} (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17998.9	42.08	-25.5	46.66	20.92	54	11.92	V
17996.2	42.04	-25.5	46.66	20.88	54	11.96	V
13255.1	37.39	-29.67	39.55	27.51	54	16.61	H
13279.9	37.38	-29.67	39.55	27.5	54	16.62	V
11819.7	36.11	-31.85	39.05	28.91	54	17.89	V
11805.9	36.06	-31.85	39.05	28.86	54	17.94	H

Channel 134

Frequency (MHz)	Result (dBμV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	P _{Mea} (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
17987.9	42.03	-25.5	46.66	20.87	54	11.97	V
17988.5	42.02	-25.5	46.66	20.86	54	11.98	H
13256.2	37.47	-29.67	39.55	27.59	54	16.53	H
13313.5	37.4	-29.49	39.71	27.18	54	16.6	V
11822.4	36.05	-31.85	39.05	28.85	54	17.95	V
11819.7	36.04	-31.85	39.05	28.84	54	17.96	V

Channel 142

Frequency (MHz)	Result (dBμV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	P _{Mea} (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
17979.7	42.1	-25.5	46.66	20.94	54	11.9	V
17986.2	42.04	-25.5	46.66	20.88	54	11.96	H
13261.8	37.44	-29.67	39.55	27.56	54	16.56	H
13264	37.39	-29.67	39.55	27.51	54	16.61	V
11832.9	36.08	-31.85	39.05	28.88	54	17.92	V
11847.7	36.03	-31.85	39.05	28.83	54	17.97	H

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Channel 42

Frequency (MHz)	Result (dB μ V/m)	Cable Loss (dB)	Antenna Factor (dB/m)	P _{Mea} (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17988.5	42.37	-25.5	46.66	21.21	54	11.63	H
17980.8	42.15	-25.5	46.66	20.99	54	11.85	H
13295.9	37.53	-29.49	39.71	27.31	54	16.47	V
13320.6	37.48	-29.49	39.71	27.26	54	16.52	V
5148	51.35	-27.61	33.67	45.29	54	2.65	H
5147.4	51.34	-27.61	33.67	45.28	54	2.66	H

Channel 58

Frequency (MHz)	Result (dB μ V/m)	Cable Loss (dB)	Antenna Factor (dB/m)	P _{Mea} (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17985.2	42	-25.5	46.66	20.84	54	12	V
17994	41.94	-25.5	46.66	20.78	54	12.06	H
13365.7	37.28	-29.49	39.71	27.06	54	16.72	V
13255.1	37.25	-29.67	39.55	27.37	54	16.75	H
5350	47.07	-27.43	34.01	40.49	54	6.93	H
5350.1	46.95	-27.43	34.01	40.37	54	7.05	H

Channel 106

Frequency (MHz)	Result (dB μ V/m)	Cable Loss (dB)	Antenna Factor (dB/m)	P _{Mea} (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17975.8	42.11	-25.5	46.66	20.95	54	11.89	H
17995	41.97	-25.5	46.66	20.81	54	12.03	V
13388.2	37.4	-29.49	39.71	27.18	54	16.6	H
13256.8	37.37	-29.67	39.55	27.49	54	16.63	V
5458.7	44.23	-27.18	34.17	37.24	54	9.77	H
5459.9	44.23	-27.18	34.17	37.24	54	9.77	H

Channel 122

Frequency (MHz)	Result (dB μ V/m)	Cable Loss (dB)	Antenna Factor (dB/m)	P _{Mea} (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17987.9	42.3	-25.5	46.66	21.14	54	11.7	V
17993.4	42.1	-25.5	46.66	20.94	54	11.9	V
13274.4	37.56	-29.67	39.55	27.68	54	16.44	H
13258.5	37.5	-29.67	39.55	27.62	54	16.5	H
11805.9	36.14	-31.85	39.05	28.94	54	17.86	V
11813.6	36.1	-31.85	39.05	28.9	54	17.9	V

Channel 138

Frequency (MHz)	Result (dB μ V/m)	Cable Loss (dB)	Antenna Factor (dB/m)	P _{Mea} (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17962.6	42.16	-25.5	46.66	21	54	11.84	H
17983.5	42.05	-25.5	46.66	20.89	54	11.95	V
13260.6	37.48	-29.67	39.55	27.6	54	16.52	V
13328.3	37.44	-29.49	39.71	27.22	54	16.56	H
11816.4	36.15	-31.85	39.05	28.95	54	17.85	V
11809.8	36.09	-31.85	39.05	28.89	54	17.91	H

Peak

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Channel 36

Frequency (MHz)	Result (dBμV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	P _{Mea} (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
17602.3	54.7	-25.74	45.95	34.49	68.3	13.6	V
17986.8	54.26	-25.5	46.66	33.1	74	19.74	V
13653.4	51.56	-29.5	40.43	40.63	68.3	16.74	H
14185.2	51.37	-28.99	42	38.35	68.3	16.93	H
5149.1	57.48	-27.61	33.67	51.42	74	16.52	H
5148.1	56.77	-27.61	33.67	50.71	74	17.23	H

Channel 40

Frequency (MHz)	Result (dBμV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	P _{Mea} (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
17983.5	56.14	-25.5	46.66	34.98	74	17.86	V
17412.6	55.22	-26.85	45.25	36.82	68.3	13.08	H
13576.4	51.07	-29.5	40.43	40.14	68.3	17.23	V
14235.8	50.77	-28.99	42	37.75	68.3	17.53	H
11867	48.64	-31.85	39.05	41.44	74	25.36	V
11816.9	48.61	-31.85	39.05	41.41	74	25.39	V

Channel 48

Frequency (MHz)	Result (dBμV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	P _{Mea} (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
17973.6	54.76	-25.5	46.66	33.6	74	19.24	V
17986.2	54.48	-25.5	46.66	33.32	74	19.52	V
13625.3	51.42	-29.5	40.43	40.49	68.3	16.88	V
13589	51.32	-29.5	40.43	40.39	68.3	16.98	H
11318.6	49.23	-32.36	38.77	42.83	74	24.77	V
11950.6	48.81	-31.48	39.09	41.2	74	25.19	V

Channel 52

Frequency (MHz)	Result (dB μ V/m)	Cable Loss (dB)	Antenna Factor (dB/m)	P _{Mea} (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17978.5	55.06	-25.5	46.66	33.9	74	18.94	H
17994	54.63	-25.5	46.66	33.47	74	19.37	H
14582.9	51.75	-27.29	41.9	37.14	68.3	16.55	V
13628	51.39	-29.5	40.43	40.46	68.3	16.91	V
11893.4	49.11	-31.85	39.05	41.91	74	24.89	H
11331.3	48.75	-32.36	38.77	42.35	74	25.25	H

Channel 56

Frequency (MHz)	Result (dB μ V/m)	Cable Loss (dB)	Antenna Factor (dB/m)	P _{Mea} (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17996.2	55.01	-25.5	46.66	33.85	74	18.99	H
17956	54.72	-25.5	46.66	33.56	74	19.28	V
13628	52.01	-29.5	40.43	41.08	68.3	16.29	V
13614.3	51.06	-29.5	40.43	40.13	68.3	17.24	H
11986.3	48.87	-31.48	39.09	41.26	74	25.13	H
11755.3	48.7	-31.99	38.98	41.71	74	25.3	V

Channel 64

Frequency (MHz)	Result (dB μ V/m)	Cable Loss (dB)	Antenna Factor (dB/m)	P _{Mea} (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17976.9	54.9	-25.5	46.66	33.74	74	19.1	V
17982.4	54.6	-25.5	46.66	33.44	74	19.4	V
13554.4	52.12	-29.56	39.99	41.69	68.3	16.18	H
13787.5	51	-29.1	40.86	39.23	68.3	17.3	H
5351.9	56.1	-27.43	34.01	49.52	74	17.9	H
5356	55.38	-27.43	34.01	48.8	74	18.62	H

Channel 100

Frequency (MHz)	Result (dBμV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	P _{Mea} (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
17952.2	54.69	-25.5	46.66	33.53	74	19.31	H
17996.2	54.54	-25.5	46.66	33.38	74	19.46	H
13752.4	51.02	-29.1	40.86	39.25	68.3	17.28	V
13643.5	50.97	-29.5	40.43	40.04	68.3	17.33	V
5459.5	56.55	-27.18	34.17	49.56	74	17.45	H
5468.9	58.64	-27.18	34.17	51.65	68.3	9.66	H

Channel 120

Frequency (MHz)	Result (dBμV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	P _{Mea} (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
17932.9	54.74	-25.5	46.66	33.58	74	19.26	V
17972	54.71	-25.5	46.66	33.55	74	19.29	H
14194	51.72	-28.99	42	38.7	68.3	16.58	V
13600.5	51.21	-29.5	40.43	40.28	68.3	17.09	V
10682.8	48.84	-32.77	38.49	43.12	74	25.16	H
11924.7	48.79	-31.48	39.09	41.18	74	25.21	H

Channel 140

Frequency (MHz)	Result (dBμV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	P _{Mea} (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
17994	55.27	-25.5	46.66	34.11	74	18.73	V
17981.3	54.65	-25.5	46.66	33.49	74	19.35	V
13630.8	50.99	-29.5	40.43	40.06	68.3	17.31	H
13652.8	50.9	-29.5	40.43	39.97	68.3	17.4	H
5727.7	58.38	-27.07	34.31	51.14	68.3	9.92	H
5734.7	57.16	-27.07	34.31	49.92	68.3	11.14	H

Channel 144

Frequency (MHz)	Result (dBμV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	P _{Mea} (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
17985.7	54.46	-25.5	46.66	33.3	74	19.54	V
17975.2	54.29	-25.5	46.66	33.13	74	19.71	V
13656.1	51.55	-29.5	40.43	40.62	68.3	16.75	H
13766.1	51.08	-29.1	40.86	39.31	68.3	17.22	H
11722.9	49.15	-31.99	38.98	42.16	74	24.85	V
11801.5	48.97	-31.85	39.05	41.77	74	25.03	V

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Channel 38

Frequency (MHz)	Result (dB μ V/m)	Cable Loss (dB)	Antenna Factor (dB/m)	P _{Mea} (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17989	55.03	-25.5	46.66	33.87	74	18.97	H
17972.5	54.87	-25.5	46.66	33.71	74	19.13	V
14211.6	51.85	-28.99	42	38.83	68.3	16.45	H
13644.5	51.31	-29.5	40.43	40.38	68.3	16.99	V
5147.4	63.39	-27.61	33.67	57.33	74	10.61	H
5147.7	63.2	-27.61	33.67	57.14	74	10.8	H

Channel 46

Frequency (MHz)	Result (dB μ V/m)	Cable Loss (dB)	Antenna Factor (dB/m)	P _{Mea} (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17978.5	54.94	-25.5	46.66	33.78	74	19.06	H
17983	54.91	-25.5	46.66	33.75	74	19.09	V
13648.4	51.23	-29.5	40.43	40.3	68.3	17.07	V
13695.1	50.82	-29.1	40.86	39.05	68.3	17.48	V
11772.9	48.53	-31.99	38.98	41.54	74	25.47	H
11342.3	48.52	-32.42	38.79	42.15	74	25.48	H

Channel 54

Frequency (MHz)	Result (dB μ V/m)	Cable Loss (dB)	Antenna Factor (dB/m)	P _{Mea} (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17948.3	55.12	-25.5	46.66	33.96	74	18.88	V
17953.8	54.87	-25.5	46.66	33.71	74	19.13	H
13673.1	51.4	-29.5	40.43	40.47	68.3	16.9	H
13645.1	51.1	-29.5	40.43	40.17	68.3	17.2	H
11904.9	49.09	-31.85	39.05	41.89	74	24.91	V
11826.3	49.03	-31.85	39.05	41.83	74	24.97	H

Channel 62

Frequency (MHz)	Result (dB μ V/m)	Cable Loss (dB)	Antenna Factor (dB/m)	P _{Mea} (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17990.7	55.19	-25.5	46.66	34.03	74	18.81	H
17969.8	55.02	-25.5	46.66	33.86	74	18.98	H
13639	51.37	-29.5	40.43	40.44	68.3	16.93	H
13598.4	51.35	-29.5	40.43	40.42	68.3	16.95	V
5352.8	57.76	-27.43	34.01	51.18	74	16.24	H
5353.3	57.57	-27.43	34.01	50.99	74	16.43	H

Channel 102

Frequency (MHz)	Result (dB μ V/m)	Cable Loss (dB)	Antenna Factor (dB/m)	P _{Mea} (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17993.4	54.16	-25.5	46.66	33	74	19.84	V
17965.9	54.11	-25.5	46.66	32.95	74	19.89	V
13584.6	51.16	-29.5	40.43	40.23	68.3	17.14	H
13229.9	51	-29.67	39.55	41.12	68.3	17.3	V
5455.6	56.76	-27.18	34.17	49.77	74	17.24	H
5467.3	56.9	-27.18	34.17	49.91	68.3	11.4	H

Channel 118

Frequency (MHz)	Result (dB μ V/m)	Cable Loss (dB)	Antenna Factor (dB/m)	P _{Mea} (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17971.4	54.7	-25.5	46.66	33.54	74	19.3	V
17936.8	54.49	-25.5	46.66	33.33	74	19.51	V
14202.2	51.32	-28.99	42	38.3	68.3	16.98	H
13612.1	50.98	-29.5	40.43	40.05	68.3	17.32	H
11881.8	49.06	-31.85	39.05	41.86	74	24.94	V
11269.7	48.81	-32.36	38.77	42.41	74	25.19	V

Channel 134

Frequency (MHz)	Result (dB μ V/m)	Cable Loss (dB)	Antenna Factor (dB/m)	P _{Mea} (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17961	54.93	-25.5	46.66	33.77	74	19.07	V
17994	54.67	-25.5	46.66	33.51	74	19.33	H
13441.6	51.15	-29.56	39.99	40.72	68.3	17.15	V
13613.8	51.04	-29.5	40.43	40.11	68.3	17.26	V
5731.8	57.53	-27.07	34.31	50.29	68.3	10.77	H
5730	57.43	-27.07	34.31	50.19	68.3	10.87	H

Channel 142

Frequency (MHz)	Result (dB μ V/m)	Cable Loss (dB)	Antenna Factor (dB/m)	P _{Mea} (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17914.8	54.69	-25.5	46.66	33.53	74	19.31	H
17850.4	54.66	-25.5	46.66	33.5	74	19.34	H
13647.9	51.2	-29.5	40.43	40.27	68.3	17.1	H
13586.8	51.1	-29.5	40.43	40.17	68.3	17.2	H
11823	48.78	-31.85	39.05	41.58	74	25.22	V
11939	48.71	-31.48	39.09	41.1	74	25.29	V

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Channel 42

Frequency (MHz)	Result (dB μ V/m)	Cable Loss (dB)	Antenna Factor (dB/m)	P _{Mea} (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17963.7	54.34	-25.5	46.66	33.18	74	19.66	H
17985.7	54.3	-25.5	46.66	33.14	74	19.7	V
13659.4	51.89	-29.5	40.43	40.96	68.3	16.41	H
14125.2	51.63	-28.99	42	38.61	68.3	16.67	H
5145.3	65.07	-27.61	33.67	59.01	74	8.93	H
5145.4	64.68	-27.61	33.67	58.62	74	9.32	H

Channel 58

Frequency (MHz)	Result (dB μ V/m)	Cable Loss (dB)	Antenna Factor (dB/m)	P _{Mea} (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17996.2	54.81	-25.5	46.66	33.65	74	19.19	H
17991.2	54.11	-25.5	46.66	32.95	74	19.89	V
13642.4	51.65	-29.5	40.43	40.72	68.3	16.65	H
13616	51.08	-29.5	40.43	40.15	68.3	17.22	V
5357.8	60.09	-27.43	34.01	53.51	74	13.91	H
5352	60.07	-27.43	34.01	53.49	74	13.93	H

Channel 106

Frequency (MHz)	Result (dB μ V/m)	Cable Loss (dB)	Antenna Factor (dB/m)	P _{Mea} (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17967	54.43	-25.5	46.66	33.27	74	19.57	V
17984.6	54.34	-25.5	46.66	33.18	74	19.66	H
14215.5	51.52	-28.99	42	38.5	68.3	16.78	H
13727	51.5	-29.1	40.86	39.73	68.3	16.8	H
5459.2	64.38	-27.18	34.17	57.39	74	9.62	H
5465.4	65.31	-27.18	34.17	58.32	68.3	2.99	H

Channel 122

Frequency (MHz)	Result (dB μ V/m)	Cable Loss (dB)	Antenna Factor (dB/m)	P _{Mea} (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17988.5	54.48	-25.5	46.66	33.32	74	19.52	V
17989.5	54.42	-25.5	46.66	33.26	74	19.58	H
13762.2	51.32	-29.1	40.86	39.55	68.3	16.98	V
13646.8	50.97	-29.5	40.43	40.04	68.3	17.33	H
5725.8	57.89	-27.07	34.31	50.65	68.3	10.41	H
5725.3	57.64	-27.07	34.31	50.4	68.3	10.66	H

Channel 138

Frequency (MHz)	Result (dB μ V/m)	Cable Loss (dB)	Antenna Factor (dB/m)	P _{Mea} (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17404.9	55.64	-26.85	45.25	37.24	68.3	12.66	H
17924.7	54.88	-25.5	46.66	33.72	74	19.12	H
13618.1	51.02	-29.5	40.43	40.09	68.3	17.28	H
14115.4	50.93	-28.99	42	37.91	68.3	17.37	V
11330.7	49.19	-32.36	38.77	42.79	74	24.81	V
11355.5	48.75	-32.42	38.79	42.38	74	25.25	V

B.7. AC Powerline Conducted Emission (150kHz- 30MHz)

Test Condition:

Voltage (V)	Frequency (Hz)
110	60

Measurement Result and limit:

WLAN (Quasi-peak Limit)

Frequency range (MHz)	Quasi-peak Limit (dB μ V)	Result (dB μ V)		Conclusion
		With charger		
		11a mode	Idle	
0.15 to 0.5	66 to 56	Fig.76	Fig.77	P
0.5 to 5	56			
5 to 30	60			

NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.

WLAN (Average Limit)

Frequency range (MHz)	Average Limit (dB μ V)	Result (dB μ V)		Conclusion
		With charger		
		11a mode	Idle	
0.15 to 0.5	56 to 46	Fig.76	Fig.77	P
0.5 to 5	46			
5 to 30	50			

NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.

Note: The measurement results showed here are worst cases of the combinations of different chargers and cables.

Conclusion: PASS

Measurement Result and limit BY EUT5:

WLAN (Quasi-peak Limit)

Frequency range (MHz)	Quasi-peak Limit (dB μ V)	Result (dB μ V)		Conclusion
		With charger		
		11a mode		
0.15 to 0.5	66 to 56	Fig.78		P
0.5 to 5	56			
5 to 30	60			

NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.

WLAN (Average Limit)

Frequency range (MHz)	Average Limit (dB μ V)	Result (dB μ V)		Conclusion
		With charger		
		11a mode		
0.15 to 0.5	56 to 46	Fig.78		P
0.5 to 5	46			
5 to 30	50			

NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.

Note: The measurement results showed here are worst cases of the combinations of different chargers and cables.

Conclusion: PASS

Test graphs as below:

Result for Traffic:

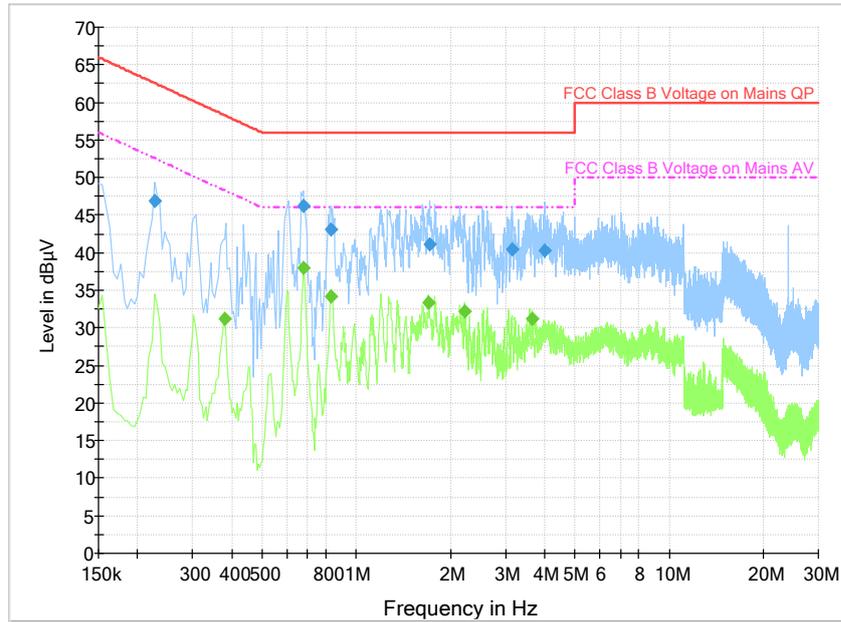


Fig.76 Conducted Emission (802.11a, Ch36, TX)

Final Result 1

Frequency(MHz)	QuasiPeak(dBµV)	Line	Margin(dB)	Limit(dBµV)
0.226500	46.8	N	15.8	62.6
0.676500	46.3	L1	9.7	56.0
0.829500	43.0	L1	13.0	56.0
1.716000	41.2	L1	14.8	56.0
3.138000	40.5	L1	15.5	56.0
4.002000	40.2	L1	15.8	56.0

Final Result 2

Frequency(MHz)	Average(dBµV)	Line	Margin(dB)	Limit(dBµV)
0.379500	31.3	L1	17.0	48.3
0.681000	38.0	L1	8.0	46.0
0.829500	34.2	L1	11.8	46.0
1.698000	33.3	L1	12.7	46.0
2.224500	32.2	L1	13.8	46.0
3.664500	31.3	L1	14.7	46.0

Result for Idle:

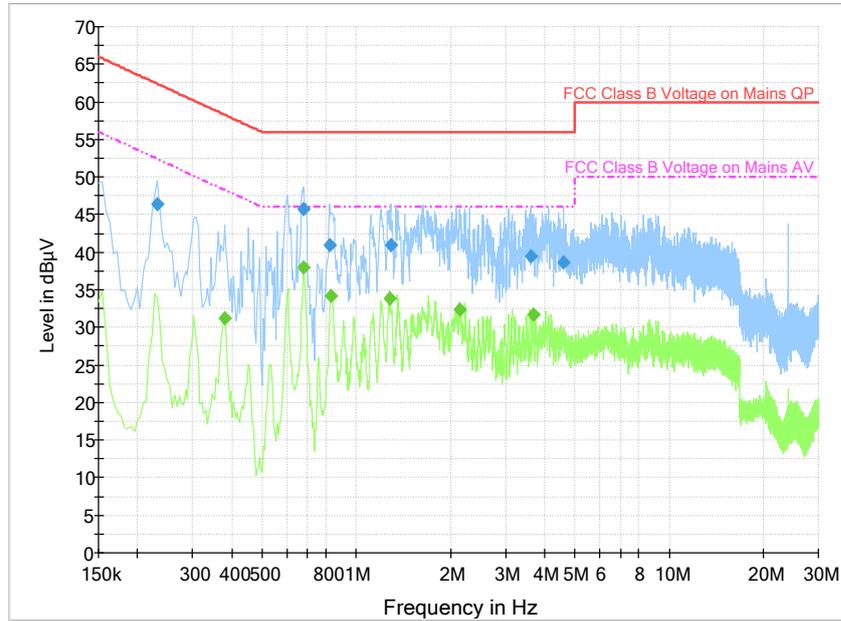


Fig.77 Conducted Emission (802.11a, RX)

Final Result 1

Frequency(MHz)	QuasiPeak(dBµV)	Line	Margin(dB)	Limit(dBµV)
0.231000	46.4	N	16.0	62.4
0.681000	45.8	L1	10.2	56.0
0.820500	41.0	L1	15.0	56.0
1.288500	41.0	L1	15.0	56.0
3.601500	39.5	L1	16.5	56.0
4.591500	38.6	L1	17.4	56.0

Final Result 2

Frequency(MHz)	Average(dBµV)	Line	Margin(dB)	Limit(dBµV)
0.379500	31.2	L1	17.1	48.3
0.681000	37.9	L1	8.1	46.0
0.829500	34.1	L1	11.9	46.0
1.279500	33.9	L1	12.1	46.0
2.148000	32.3	L1	13.7	46.0
3.673500	31.7	L1	14.3	46.0

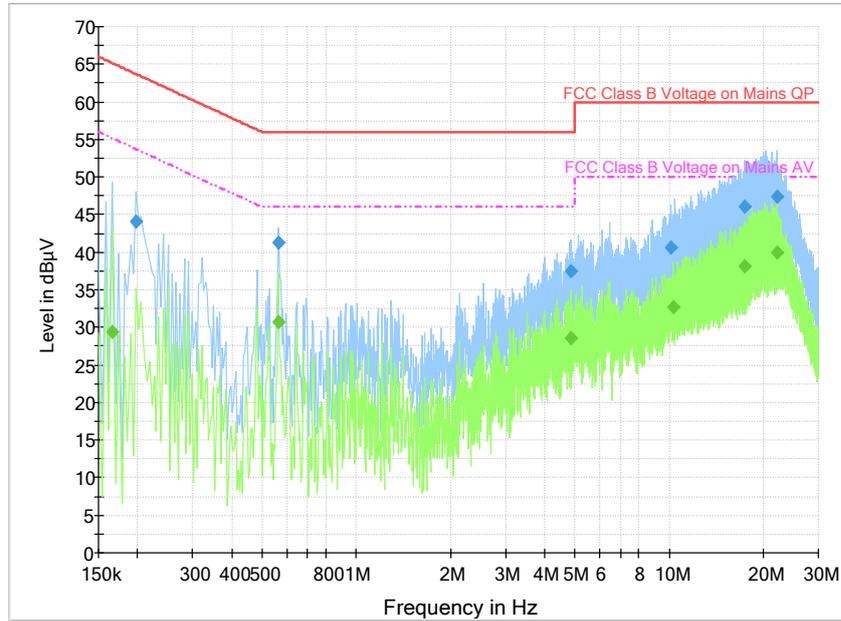


Fig.78 Conducted Emission (802.11a, Ch36, TX)

Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.198000	44.0	2000.0	9.000	On	L1	20.0	19.7	63.7
0.566000	41.3	2000.0	9.000	On	L1	19.8	14.7	56.0
4.850000	37.5	2000.0	9.000	On	L1	19.6	18.5	56.0
10.138000	40.6	2000.0	9.000	On	L1	19.7	19.4	60.0
17.442000	46.1	2000.0	9.000	On	L1	19.9	13.9	60.0
22.074000	47.4	2000.0	9.000	On	L1	19.9	12.6	60.0

Final Result 2

Frequency (MHz)	CAverage (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.166000	29.4	2000.0	9.000	On	L1	20.0	25.8	55.2
0.562000	30.8	2000.0	9.000	On	L1	19.9	15.2	46.0
4.850000	28.6	2000.0	9.000	On	L1	19.6	17.4	46.0
10.366000	32.6	2000.0	9.000	On	L1	19.7	17.4	50.0
17.442000	38.1	2000.0	9.000	On	L1	19.9	11.9	50.0
22.074000	39.9	2000.0	9.000	On	L1	19.9	10.1	50.0

B.8. 99% Occupied bandwidth

Method of Measurement: See ANSI C63.10-2013-clause 12.4.2.

- a) The instrument center frequency is set to the nominal EUT channel center frequency. The frequency span for the spectrum analyzer shall be between 1.5 times and 5.0 times the OBW.
- b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW, and VBW shall be approximately three times the RBW, unless otherwise specified by the applicable requirement.
- c) Set the reference level of the instrument as required, keeping the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than $[10 \log (OBW/RBW)]$ below the reference level. Specific guidance is given in 4.1.5.2.
- d) Step a) through step c) might require iteration to adjust within the specified range.
- e) Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used.
- f) Use the 99% power bandwidth function of the instrument (if available) and report the measured bandwidth.
- g) If the instrument does not have a 99% power bandwidth function, then the trace data points are recovered and directly summed in linear power terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5% of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5% of the total is reached; that frequency is recorded as the upper frequency. The 99% power bandwidth is the difference between these two frequencies.
- h) The occupied bandwidth shall be reported by providing plot(s) of the measuring instrument display; the plot axes and the scale units per division shall be clearly labeled. Tabular data may be reported in addition to the plot(s).

Measurement Uncertainty:

Measurement Uncertainty	60.80Hz
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Measurement Result:

Mode	Frequency	99% Occupied bandwidth (MHz)		conclusion
		Fig.	Value	
802.11a	5180 MHz	Fig.78	17.14	P
	5200 MHz	Fig.79	17.11	P
	5240 MHz	Fig.80	18.28	P
802.11n HT20	5180 MHz	Fig.81	18.27	P
	5200 MHz	Fig.82	18.28	P
	5240 MHz	Fig.83	18.29	P
802.11ac HT20	5180 MHz	Fig.84	18.33	P
	5200 MHz	Fig.85	18.32	P
	5240 MHz	Fig.86	18.32	P
802.11n HT40	5190 MHz	Fig.87	36.32	P
	5230 MHz	Fig.88	36.33	P
802.11ac	5190 MHz	Fig.89	36.31	P

HT40	5230 MHz	Fig.90	36.34	P
802.11ac HT80	5210 MHz	Fig.91	75.67	P

Conclusion: PASS

Test graphs as below:

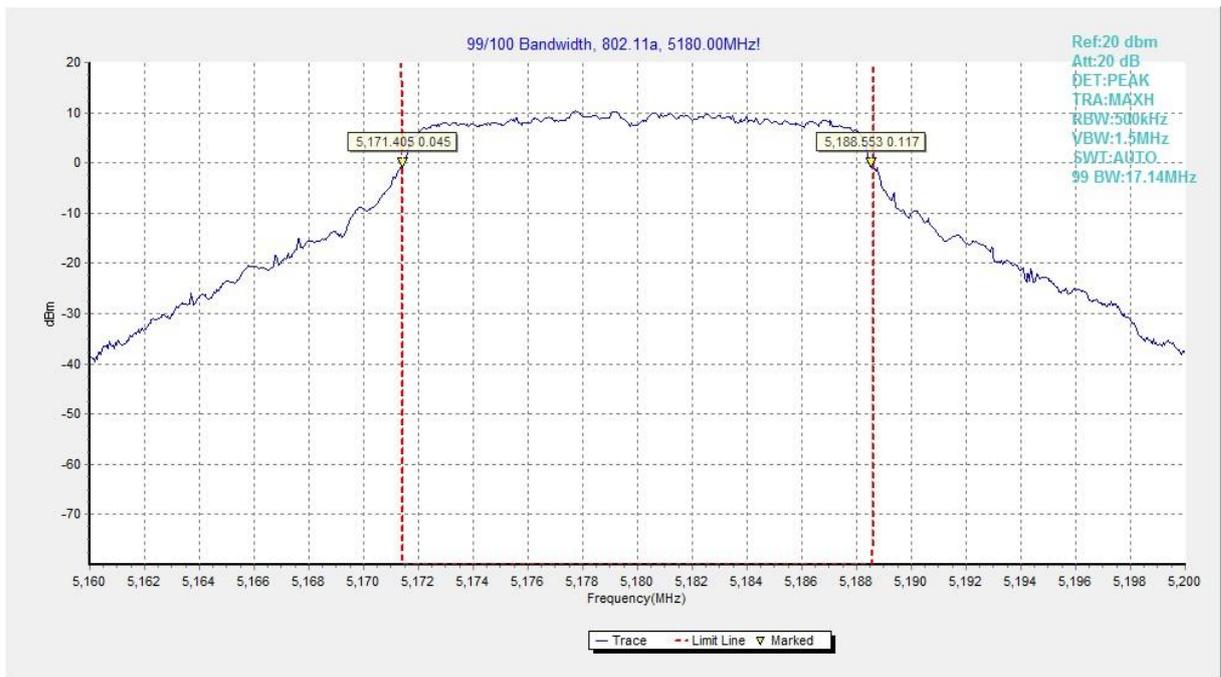


Fig.78 99% Occupied bandwidth (802.11a, 5180MHz)

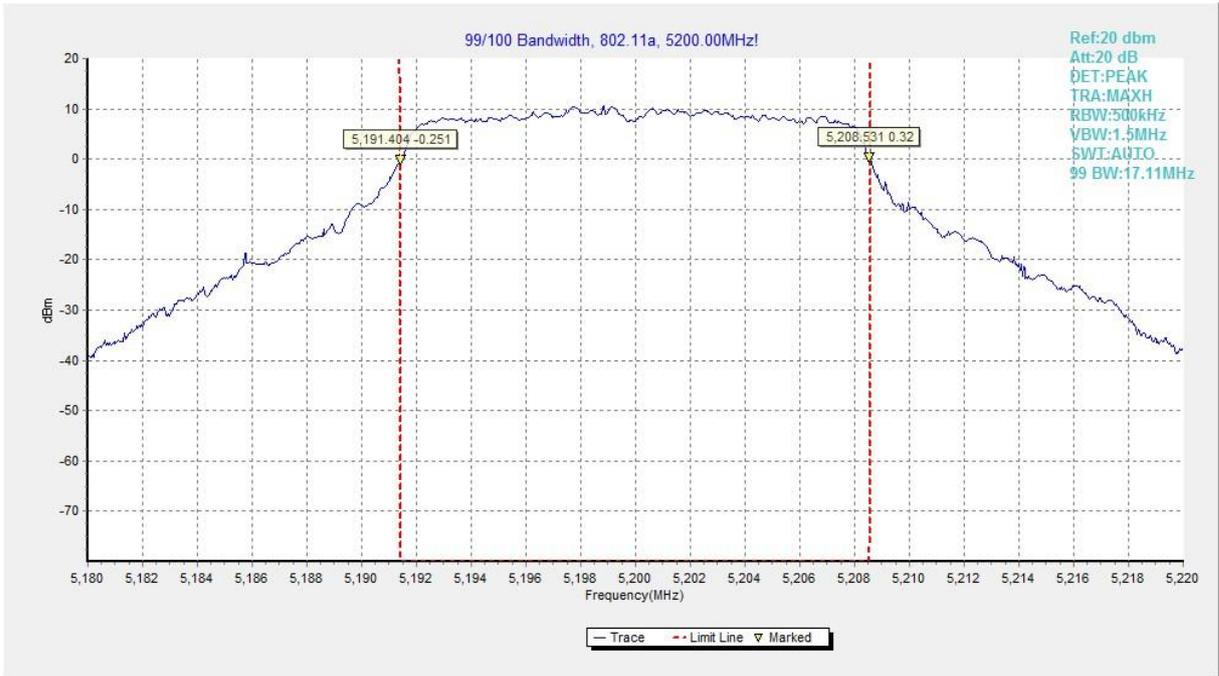


Fig.79 99% Occupied bandwidth (802.11a, 5200MHz)

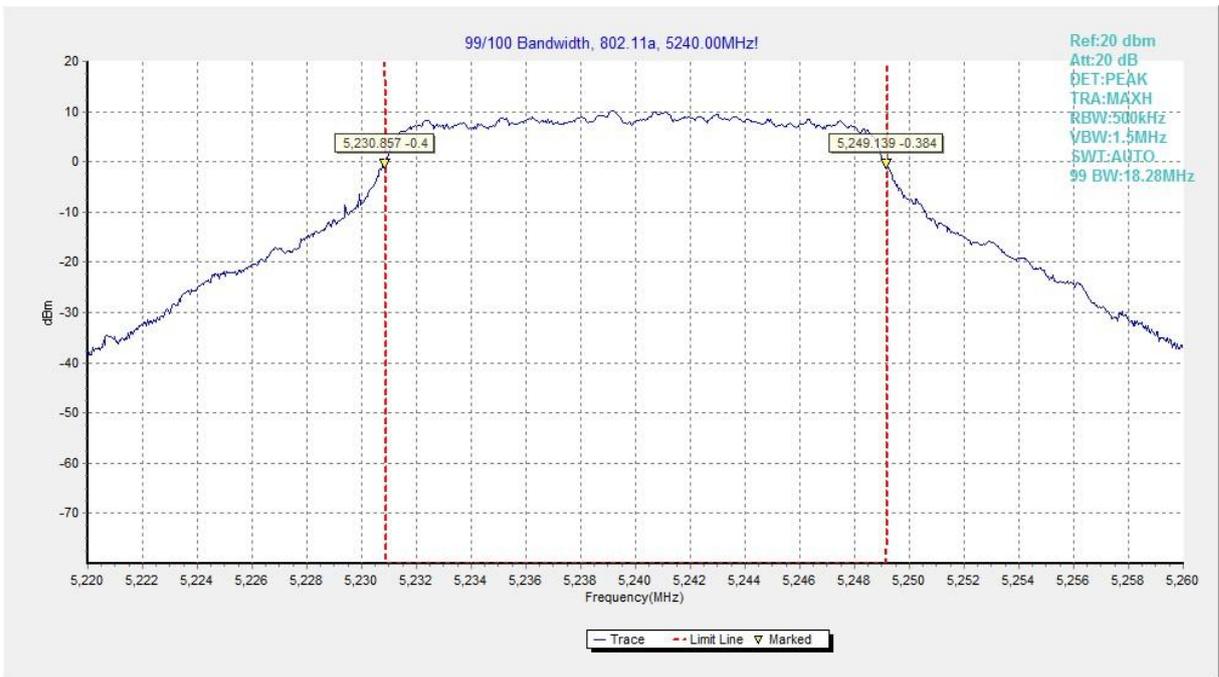


Fig.80 99% Occupied bandwidth (802.11a, 5240MHz)

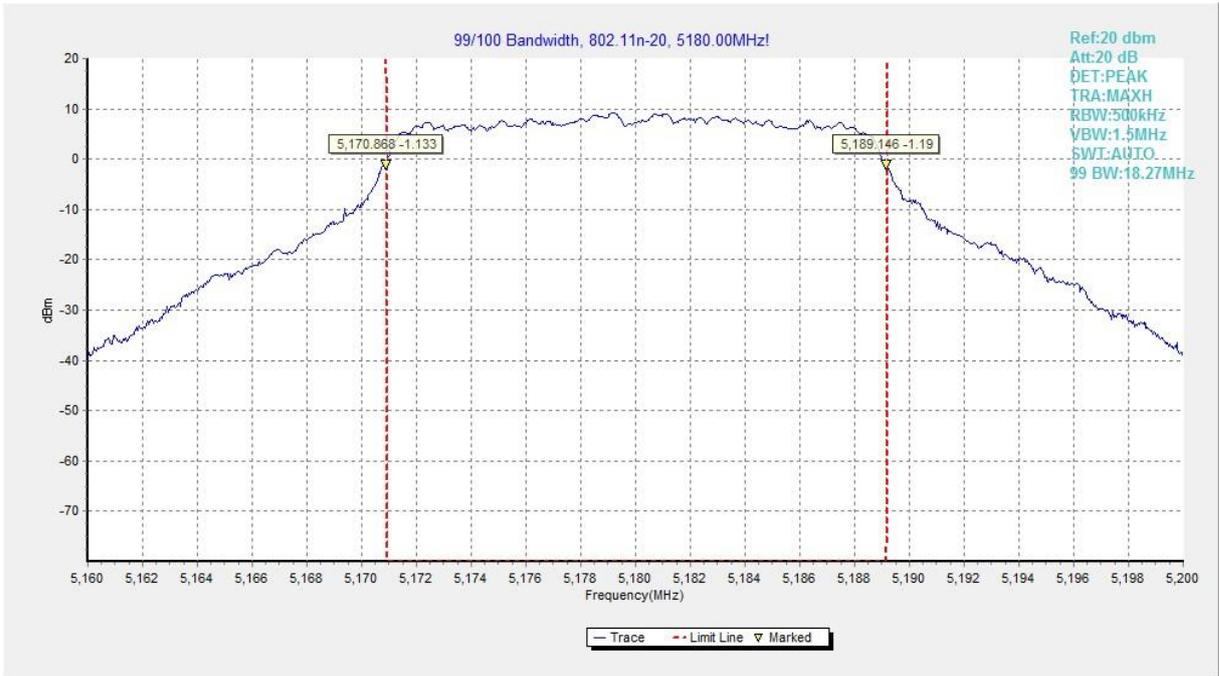


Fig.81 99% Occupied bandwidth (802.11n-HT20, 5180MHz)



Fig.82 99% Occupied bandwidth (802.11n-HT20, 5200MHz)

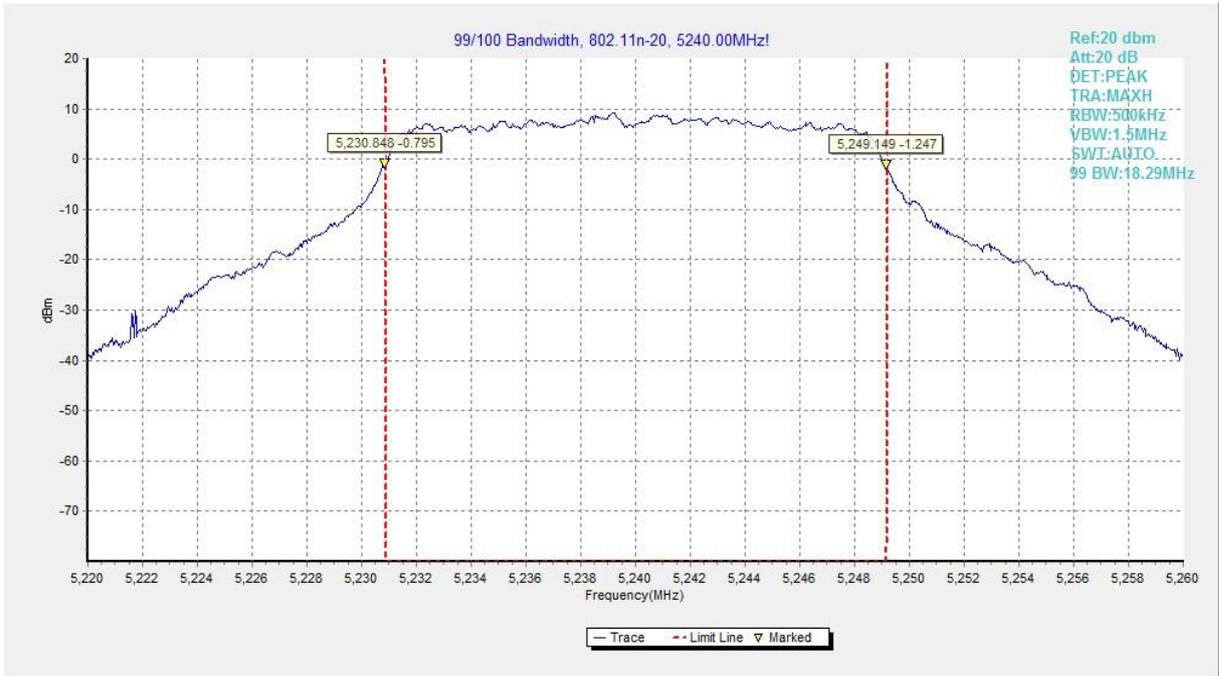


Fig.83 99% Occupied bandwidth (802.11n-HT20, 5240MHz)

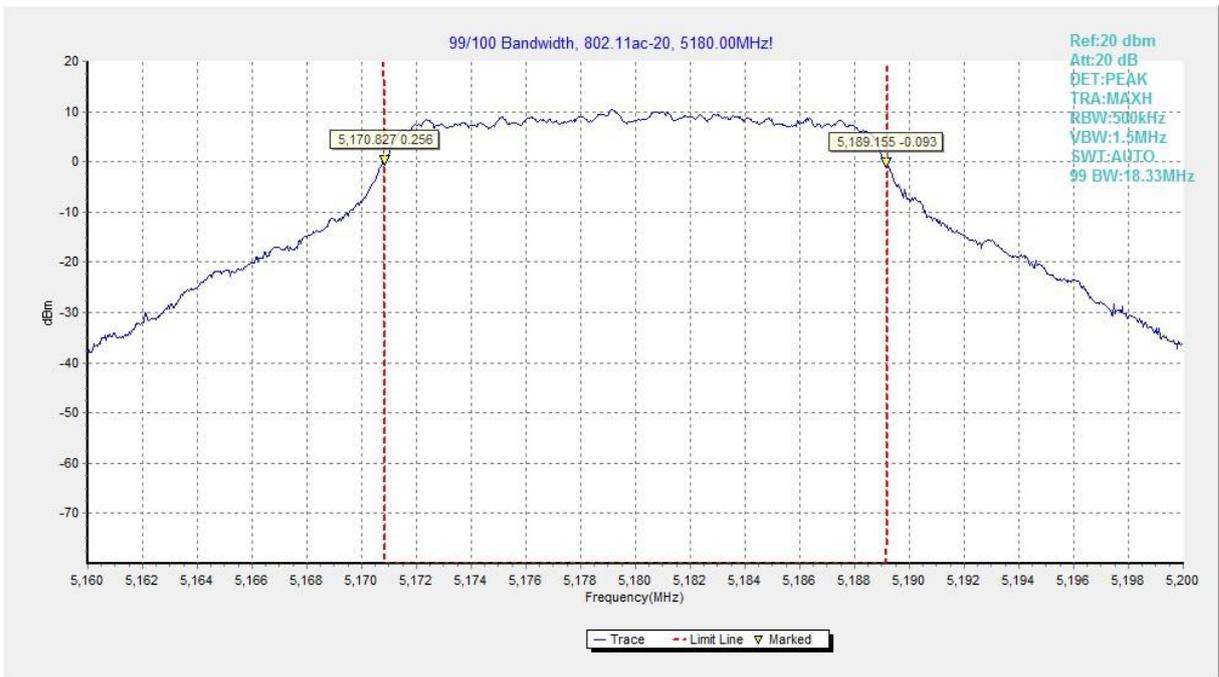


Fig.84 99% Occupied bandwidth (802.11ac-HT20, 5180MHz)

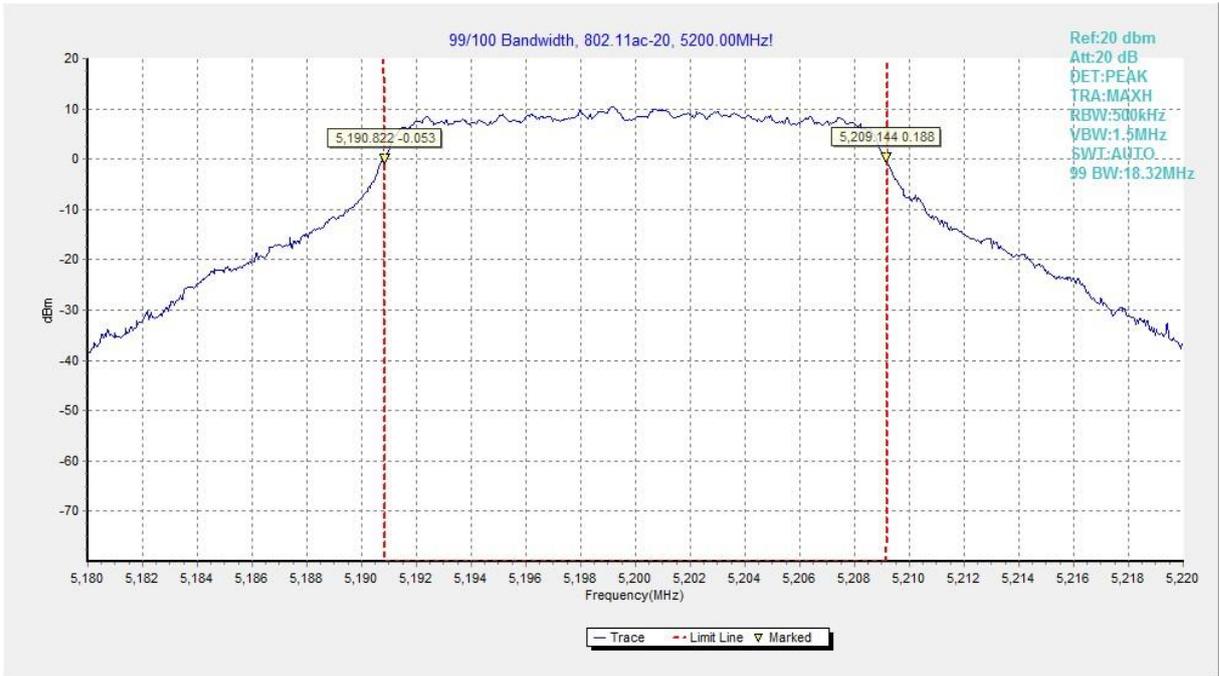


Fig.85 99% Occupied bandwidth (802.11ac-HT20, 5200MHz)

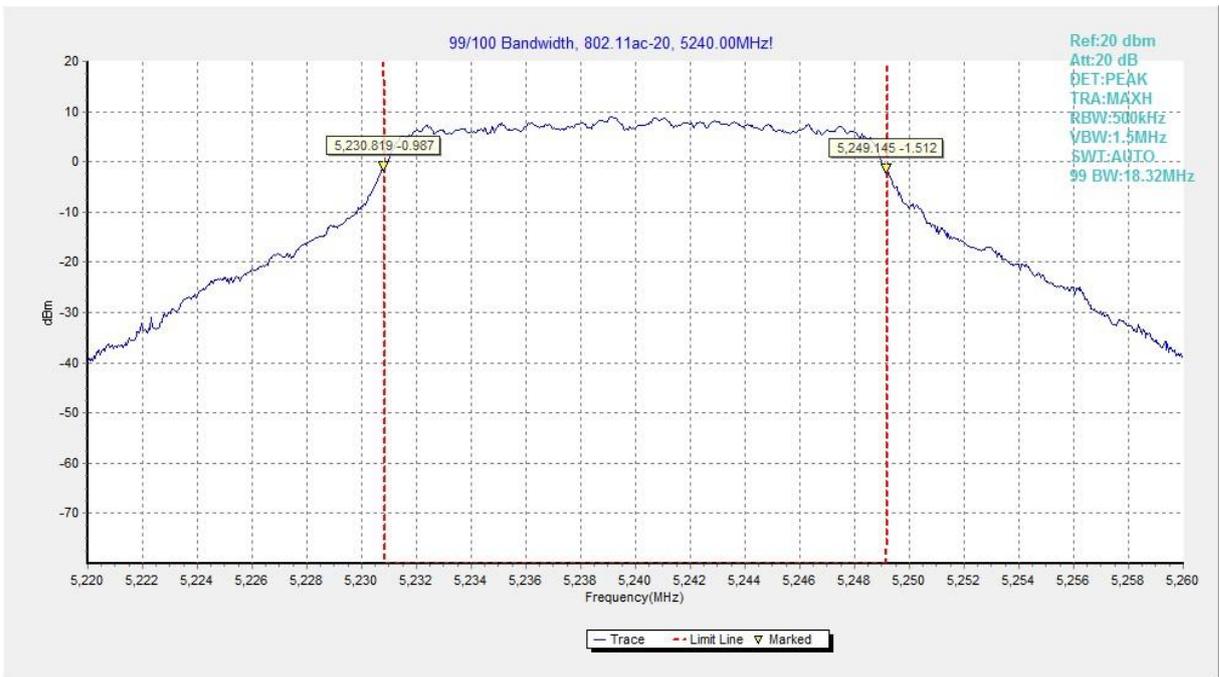


Fig.86 99% Occupied bandwidth (802.11ac-HT20, 5240MHz)

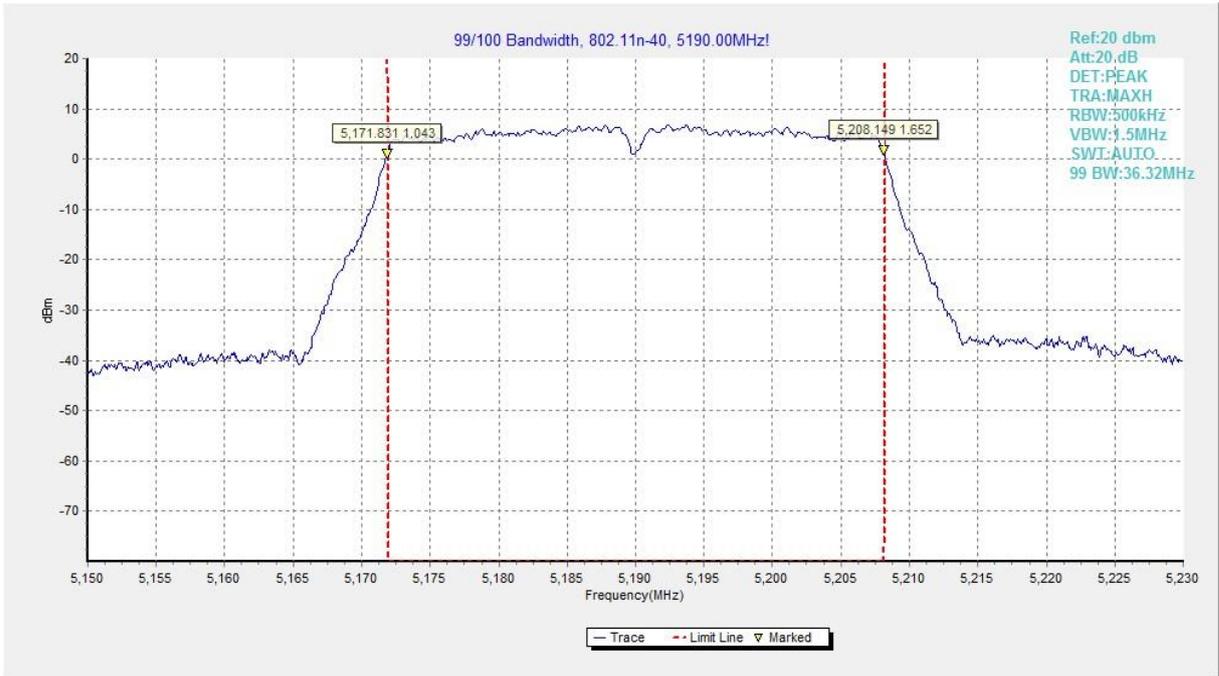


Fig.87 99% Occupied bandwidth (802.11n-HT40, 5190MHz)

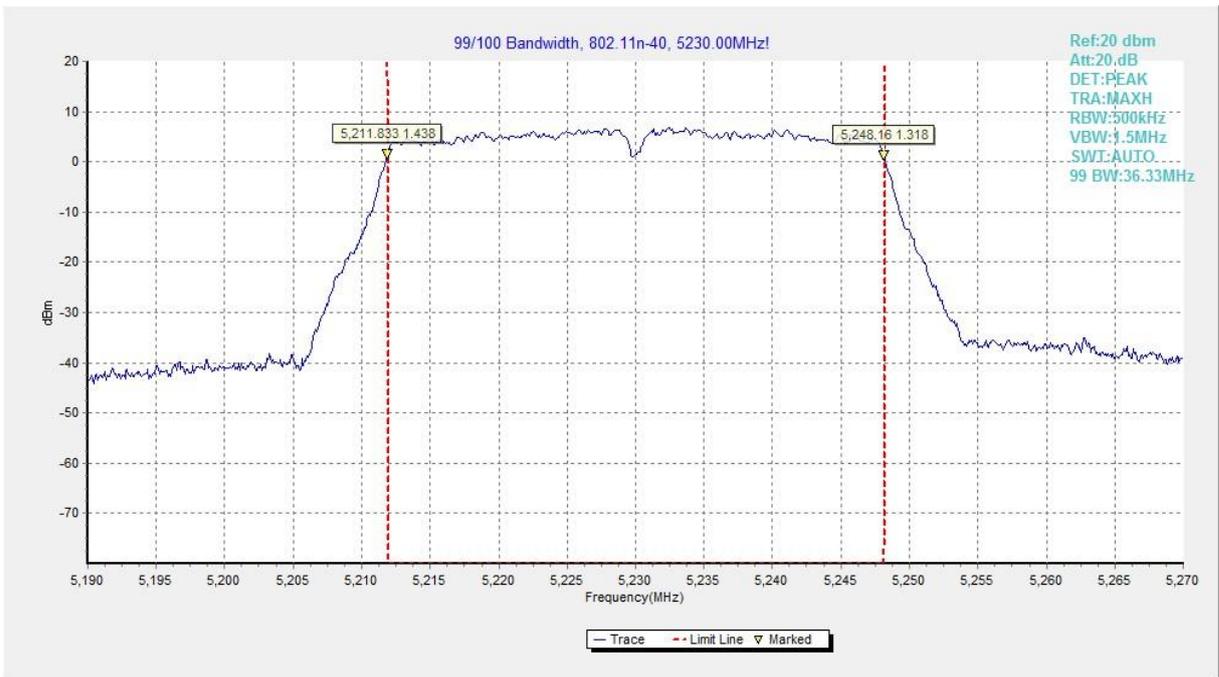


Fig.88 99% Occupied bandwidth (802.11n-HT40, 5230MHz)

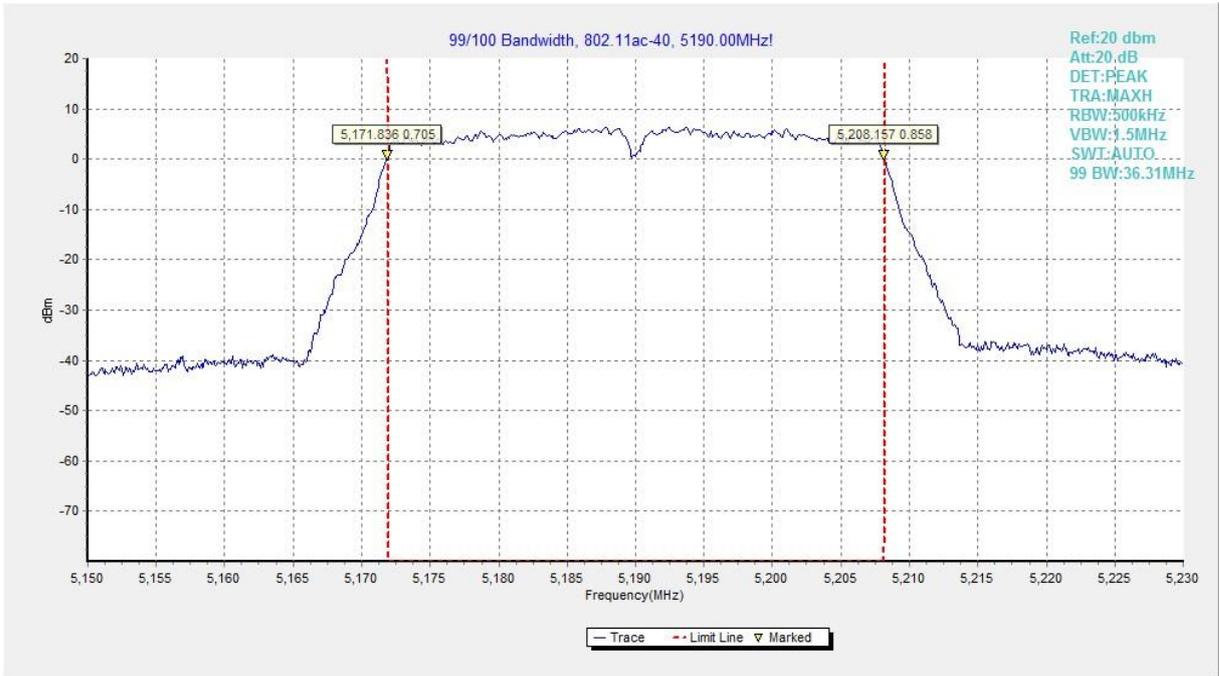


Fig.89 99% Occupied bandwidth (802.11ac-HT40, 5190MHz)

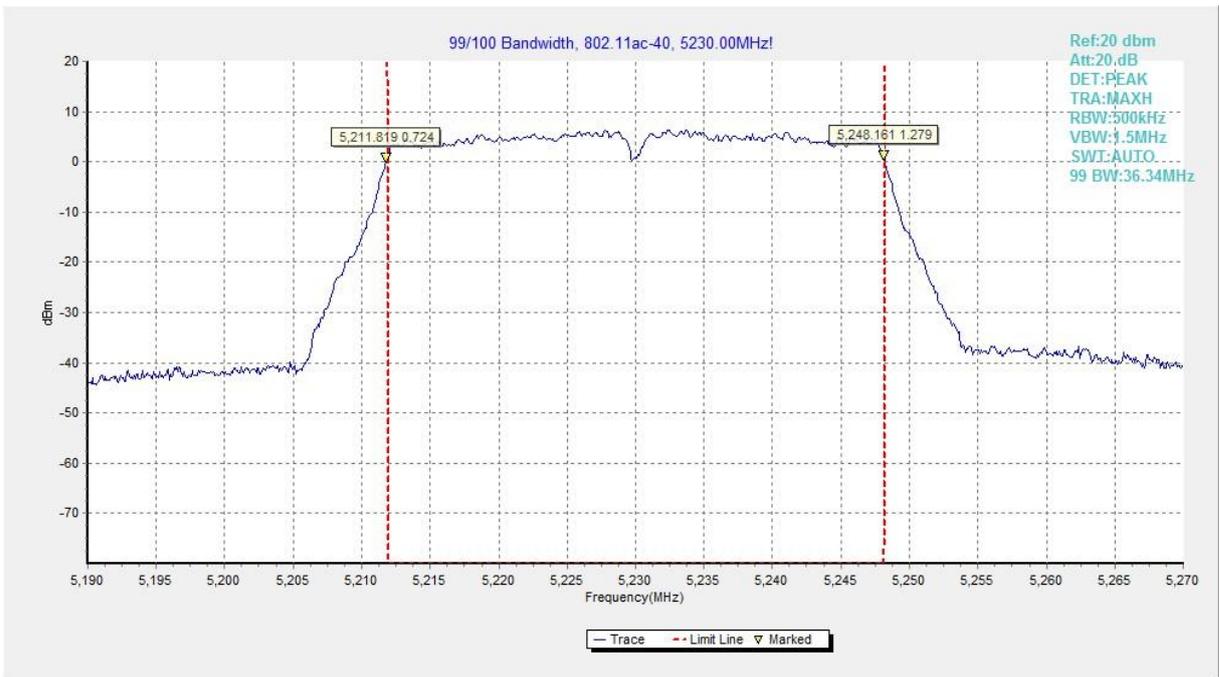


Fig.90 99% Occupied bandwidth (802.11ac-HT40, 5230MHz)

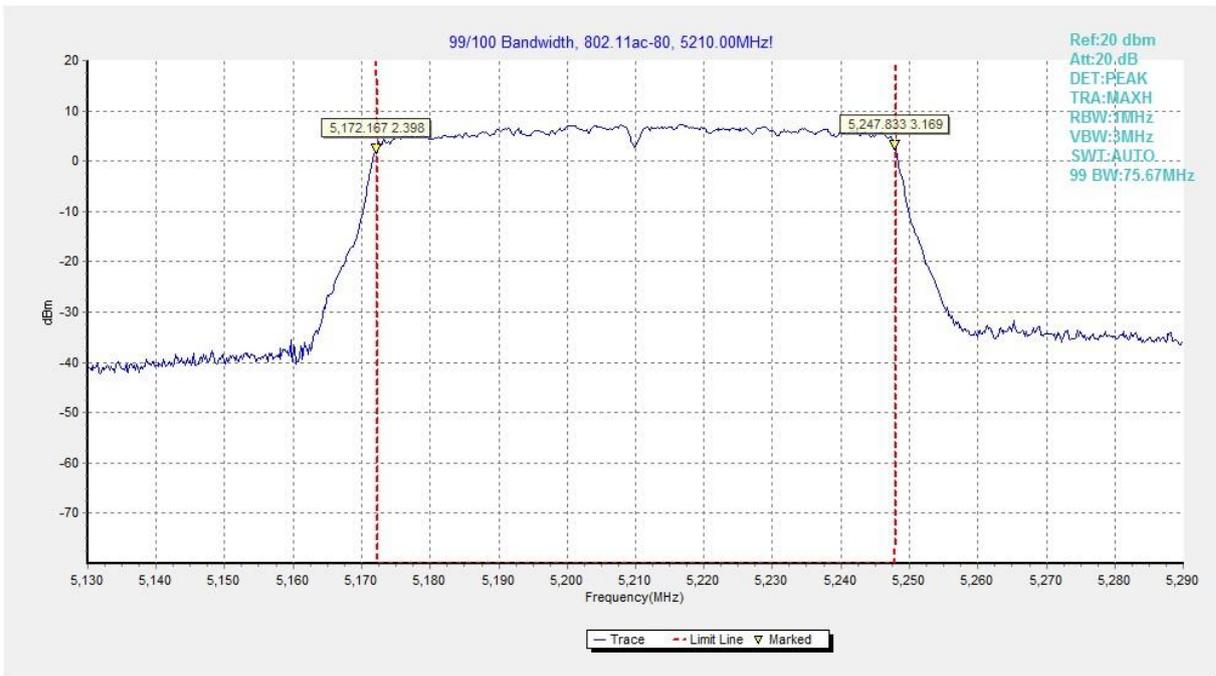


Fig.91 99% Occupied bandwidth (802.11ac-HT80, 5210MHz)

B.9. Power control

A Transmission Power Control mechanism is not required for systems with an e.i.r.p. of less than 27dBm (500 mW).

ANNEX C: EUT parameters

Disclaimer: The worse case provided by the client may affect the validity of the measurement results in this report, and the client shall bear the impact and consequences arising therefrom.

ANNEX D: Accreditation Certificate

<p>United States Department of Commerce National Institute of Standards and Technology</p>  	
<hr/> <p>Certificate of Accreditation to ISO/IEC 17025:2017</p> <hr/>	
<p>NVLAP LAB CODE: 600118-0</p>	
<p>Telecommunication Technology Labs, CAICT Beijing China</p>	
<p><i>is accredited by the National Voluntary Laboratory Accreditation Program for specific services, listed on the Scope of Accreditation, for:</i></p>	
<p>Electromagnetic Compatibility & Telecommunications</p>	
<p><i>This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communique dated January 2009).</i></p>	
<hr/> <p>2021-09-29 through 2022-09-30 Effective Dates</p>	 <hr/> <p><i>[Signature]</i> For the National Voluntary Laboratory Accreditation Program</p>

*** END OF REPORT BODY ***