

802.11ac-HT20

Channel 36

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
17959.30	42.12	-25.50	46.66	20.96	54.00	11.88	V
17986.20	41.98	-25.50	46.66	20.82	54.00	12.02	V
13259.00	37.47	-29.67	39.55	27.59	54.00	16.53	H
13257.40	37.40	-29.67	39.55	27.52	54.00	16.60	V
5149.90	45.37	-27.61	33.67	39.31	54.00	8.63	H
5149.50	45.31	-27.61	33.67	39.25	54.00	8.69	H

Channel 40

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
17987.90	42.03	-25.50	46.66	20.87	54.00	11.97	V
17997.20	41.88	-25.50	46.66	20.72	54.00	12.12	V
13352.00	37.39	-29.49	39.71	27.17	54.00	16.61	V
13350.90	37.33	-29.49	39.71	27.11	54.00	16.67	V
11841.10	36.04	-31.85	39.05	28.84	54.00	17.96	H
11820.20	36.01	-31.85	39.05	28.81	54.00	17.99	V

Channel 48

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
17998.30	41.86	-25.50	46.66	20.70	54.00	12.14	V
17986.20	41.84	-25.50	46.66	20.68	54.00	12.16	V
13311.80	37.20	-29.49	39.71	26.98	54.00	16.80	H
13282.60	37.17	-29.67	39.55	27.29	54.00	16.83	H
11810.30	36.20	-31.85	39.05	29.00	54.00	17.80	V
11816.40	36.12	-31.85	39.05	28.92	54.00	17.88	H

Channel 52

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
17989.00	41.97	-25.50	46.66	20.81	54.00	12.03	V
17968.70	41.91	-25.50	46.66	20.75	54.00	12.09	H
13265.00	37.22	-29.67	39.55	27.34	54.00	16.78	V
13258.50	37.17	-29.67	39.55	27.29	54.00	16.83	H
11819.10	36.11	-31.85	39.05	28.91	54.00	17.89	H
11798.20	36.06	-31.85	39.05	28.86	54.00	17.94	H

Channel 56

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
17997.80	41.92	-25.50	46.66	20.76	54.00	12.08	V
17993.40	41.90	-25.50	46.66	20.74	54.00	12.10	V
13256.80	37.34	-29.67	39.55	27.46	54.00	16.66	H
13259.50	37.16	-29.67	39.55	27.28	54.00	16.84	V
11816.40	36.09	-31.85	39.05	28.89	54.00	17.91	H
11836.20	36.08	-31.85	39.05	28.88	54.00	17.92	H

Channel 64

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
17972.50	41.85	-25.50	46.66	20.69	54.00	12.15	V
17997.20	41.85	-25.50	46.66	20.69	54.00	12.15	H
13250.80	37.20	-29.67	39.55	27.32	54.00	16.80	V
13348.10	37.17	-29.49	39.71	26.95	54.00	16.83	V
5350.00	45.43	-27.43	34.01	38.85	54.00	8.57	H
5350.00	45.40	-27.43	34.01	38.82	54.00	8.60	H

Channel 100

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
17996.20	41.86	-25.50	46.66	20.70	54.00	12.14	V
17997.20	41.78	-25.50	46.66	20.62	54.00	12.22	V
13251.30	37.22	-29.67	39.55	27.34	54.00	16.78	H
13253.00	37.22	-29.67	39.55	27.34	54.00	16.78	V
5460.00	43.71	-27.18	34.17	36.72	54.00	10.29	H
5459.60	43.56	-27.18	34.17	36.57	54.00	10.44	H

Channel 120

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
17987.30	41.94	-25.50	46.66	20.78	54.00	12.06	V
17967.50	41.92	-25.50	46.66	20.76	54.00	12.08	H
13321.70	37.28	-29.49	39.71	27.06	54.00	16.72	V
13340.40	37.27	-29.49	39.71	27.05	54.00	16.73	V
11810.90	36.01	-31.85	39.05	28.81	54.00	17.99	H
11800.40	35.99	-31.85	39.05	28.79	54.00	18.01	H

Channel 140

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
17997.20	41.95	-25.50	46.66	20.79	54.00	12.05	V
17990.10	41.91	-25.50	46.66	20.75	54.00	12.09	V
13322.80	37.28	-29.49	39.71	27.06	54.00	16.72	H
13338.80	37.26	-29.49	39.71	27.04	54.00	16.74	H
11825.70	36.13	-31.85	39.05	28.93	54.00	17.87	V
11811.40	36.04	-31.85	39.05	28.84	54.00	17.96	V

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Channel 38

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
17989.500	43.47	-25.50	46.66	22.31	54.00	10.53	V
17985.700	43.44	-25.50	46.66	22.28	54.00	10.56	H
13329.400	38.79	-29.49	39.71	28.57	54.00	15.21	H
13264.000	38.75	-29.67	39.55	28.87	54.00	15.25	V
5149.800	48.17	-27.61	33.67	42.11	54.00	5.83	H
5150.000	47.98	-27.61	33.67	41.92	54.00	6.02	H

Channel 46

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
17966.500	43.27	-25.50	46.66	22.11	54.00	10.73	H
17968.100	43.23	-25.50	46.66	22.07	54.00	10.77	H
13323.400	38.62	-29.49	39.71	28.40	54.00	15.38	H
13294.200	38.60	-29.49	39.71	28.38	54.00	15.40	V
11815.200	37.14	-31.85	39.05	29.94	54.00	16.86	V
11865.300	37.14	-31.85	39.05	29.94	54.00	16.86	H

Channel 54

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
17996.200	43.10	-25.50	46.66	21.94	54.00	10.90	V
17997.200	43.08	-25.50	46.66	21.92	54.00	10.92	H
13265.000	38.32	-29.67	39.55	28.44	54.00	15.68	V
13292.500	38.27	-29.49	39.71	28.05	54.00	15.73	V
11797.600	37.22	-31.85	39.05	30.02	54.00	16.78	H
11771.200	37.20	-31.99	38.98	30.21	54.00	16.80	V

Channel 62

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
17995.600	43.14	-25.50	46.66	21.98	54.00	10.86	H
17984.600	43.04	-25.50	46.66	21.88	54.00	10.96	H
13326.600	38.49	-29.49	39.71	28.27	54.00	15.51	V
13339.900	38.28	-29.49	39.71	28.06	54.00	15.72	H
5350.700	46.47	-27.43	34.01	39.89	54.00	7.53	H
5351.100	46.47	-27.43	34.01	39.89	54.00	7.53	H

Channel 102

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
17952.200	43.23	-25.50	46.66	22.07	54.00	10.77	V
17996.200	43.15	-25.50	46.66	21.99	54.00	10.85	V
13295.300	38.38	-29.49	39.71	28.16	54.00	15.62	V
14497.000	38.23	-28.59	42.46	24.36	54.00	15.77	H
5459.400	40.00	-27.18	34.17	33.01	54.00	14.00	H
5454.400	39.98	-27.18	34.17	32.99	54.00	14.02	H

Channel 118

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
17992.800	43.02	-25.50	46.66	21.86	54.00	10.98	H
17961.000	42.95	-25.50	46.66	21.79	54.00	11.05	V
13326.600	38.45	-29.49	39.71	28.23	54.00	15.55	V
13257.400	38.39	-29.67	39.55	28.51	54.00	15.61	V
11849.400	37.13	-31.85	39.05	29.93	54.00	16.87	H
11843.900	37.07	-31.85	39.05	29.87	54.00	16.93	H

Channel 134

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
17991.200	43.06	-25.50	46.66	21.90	54.00	10.94	H
17991.800	43.05	-25.50	46.66	21.89	54.00	10.95	V
14498.100	38.57	-28.59	42.46	24.70	54.00	15.43	H
13258.500	38.30	-29.67	39.55	28.42	54.00	15.70	V
11773.500	37.21	-31.99	38.98	30.22	54.00	16.79	H
11868.600	37.19	-31.85	39.05	29.99	54.00	16.81	V

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Channel 38

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
17996.70	41.81	-25.50	46.66	20.65	54.00	12.19	H
17998.30	41.80	-25.50	46.66	20.64	54.00	12.20	H
13251.30	37.24	-29.67	39.55	27.36	54.00	16.76	V
13250.20	37.16	-29.67	39.55	27.28	54.00	16.84	H
5149.90	46.93	-27.61	33.67	40.87	54.00	7.07	H
5149.80	46.88	-27.61	33.67	40.82	54.00	7.12	H

Channel 46

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
17997.20	41.93	-25.50	46.66	20.77	54.00	12.07	H
17991.20	41.84	-25.50	46.66	20.68	54.00	12.16	V
13265.60	37.17	-29.67	39.55	27.29	54.00	16.83	V
13259.00	37.14	-29.67	39.55	27.26	54.00	16.86	H
11819.70	36.15	-31.85	39.05	28.95	54.00	17.85	H
11822.40	36.01	-31.85	39.05	28.81	54.00	17.99	V

Channel 54

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
17987.30	42.02	-25.50	46.66	20.86	54.00	11.98	H
17998.30	41.94	-25.50	46.66	20.78	54.00	12.06	H
13353.60	37.32	-29.49	39.71	27.10	54.00	16.68	H
13259.00	37.22	-29.67	39.55	27.34	54.00	16.78	H
11801.00	36.16	-31.85	39.05	28.96	54.00	17.84	H
11799.30	36.04	-31.85	39.05	28.84	54.00	17.96	H

Channel 62

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
17985.20	41.89	-25.50	46.66	20.73	54.00	12.11	H
17973.60	41.88	-25.50	46.66	20.72	54.00	12.12	H
13256.80	37.23	-29.67	39.55	27.35	54.00	16.77	V
13360.20	37.22	-29.49	39.71	27.00	54.00	16.78	V
5351.30	49.00	-27.43	34.01	42.42	54.00	5.00	H
5351.20	48.97	-27.43	34.01	42.39	54.00	5.03	H

Channel 102

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
17995.60	41.89	-25.50	46.66	20.73	54.00	12.11	V
17997.80	41.80	-25.50	46.66	20.64	54.00	12.20	V
13335.50	37.33	-29.49	39.71	27.11	54.00	16.67	V
13266.70	37.26	-29.67	39.55	27.38	54.00	16.74	H
5459.90	44.51	-27.18	34.17	37.52	54.00	9.49	H
5459.10	44.42	-27.18	34.17	37.43	54.00	9.58	H

Channel 118

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
17987.30	41.98	-25.50	46.66	20.82	54.00	12.02	H
17987.90	41.82	-25.50	46.66	20.66	54.00	12.18	H
13260.60	37.21	-29.67	39.55	27.33	54.00	16.79	V
13330.00	37.20	-29.49	39.71	26.98	54.00	16.80	H
11822.40	36.05	-31.85	39.05	28.85	54.00	17.95	H
11797.10	36.00	-31.85	39.05	28.80	54.00	18.00	H

Channel 134

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
17988.50	41.89	-25.50	46.66	20.73	54.00	12.11	H
17982.40	41.87	-25.50	46.66	20.71	54.00	12.13	V
13267.20	37.20	-29.67	39.55	27.32	54.00	16.80	V
13356.90	37.20	-29.49	39.71	26.98	54.00	16.80	V
11799.30	36.06	-31.85	39.05	28.86	54.00	17.94	H
11830.70	36.05	-31.85	39.05	28.85	54.00	17.95	H

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Channel 42

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
17996.70	41.81	-25.50	46.66	20.65	54.00	12.19	V
17994.50	41.75	-25.50	46.66	20.59	54.00	12.25	V
13260.60	37.14	-29.67	39.55	27.26	54.00	16.86	H
13344.20	37.13	-29.49	39.71	26.91	54.00	16.87	V
5149.40	43.75	-27.61	33.67	37.69	54.00	10.25	H
5149.80	43.75	-27.61	33.67	37.69	54.00	10.25	H

Channel 58

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
17994.50	41.79	-25.50	46.66	20.63	54.00	12.21	H
17980.20	41.78	-25.50	46.66	20.62	54.00	12.22	V
13356.90	37.17	-29.49	39.71	26.95	54.00	16.83	V
13334.90	37.15	-29.49	39.71	26.93	54.00	16.85	H
5350.50	46.03	-27.43	34.01	39.45	54.00	7.97	H
5354.10	45.96	-27.43	34.01	39.38	54.00	8.04	H

Channel 106

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
17969.80	41.82	-25.50	46.66	20.66	54.00	12.18	V
17973.00	41.76	-25.50	46.66	20.60	54.00	12.24	H
13251.90	37.24	-29.67	39.55	27.36	54.00	16.76	H
13330.50	37.20	-29.49	39.71	26.98	54.00	16.80	H
5458.40	47.72	-27.18	34.17	40.73	54.00	6.28	H
5456.70	47.71	-27.18	34.17	40.72	54.00	6.29	H

Peak
802.11a
Channel 36

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
17993.400	54.90	-25.50	46.66	33.74	74.00	19.10	V
17879.500	54.40	-25.50	46.66	33.24	74.00	19.60	V
14176.400	51.19	-28.99	42.00	38.17	68.30	17.11	H
13650.000	50.69	-29.50	40.43	39.76	68.30	17.61	H
5147.300	65.45	-27.61	33.67	59.39	74.00	8.55	H
5149.600	65.16	-27.61	33.67	59.10	74.00	8.84	H

Channel 40

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
17436.800	53.83	-26.85	45.25	35.43	68.30	14.47	V
17995.600	53.73	-25.50	46.66	32.57	74.00	20.27	H
13641.200	50.52	-29.50	40.43	39.59	68.30	17.78	V
14016.900	50.36	-29.44	41.66	38.14	68.30	17.94	V
11698.100	48.78	-31.99	38.98	41.79	74.00	25.22	H
10871.500	48.26	-32.33	38.59	42.00	74.00	25.74	H

Channel 48

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
17206.300	53.83	-26.60	43.36	37.07	68.30	14.47	V
17993.400	53.76	-25.50	46.66	32.60	74.00	20.24	V
13630.200	50.43	-29.50	40.43	39.50	68.30	17.87	V
13666.000	50.43	-29.50	40.43	39.50	68.30	17.87	V
11858.100	47.89	-31.85	39.05	40.69	74.00	26.11	H
11816.400	47.79	-31.85	39.05	40.59	74.00	26.21	H

Channel 52

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
17964.800	54.30	-25.50	46.66	33.14	74.00	19.70	V
17933.500	54.08	-25.50	46.66	32.92	74.00	19.92	H
13643.500	50.31	-29.50	40.43	39.38	68.30	17.99	V
14122.000	50.26	-28.99	42.00	37.24	68.30	18.04	V
11898.300	47.84	-31.85	39.05	40.64	74.00	26.16	H
10870.400	47.79	-32.33	38.59	41.53	74.00	26.21	H

Channel 56

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
17928.500	53.77	-25.50	46.66	32.61	74.00	20.23	H
17943.900	53.46	-25.50	46.66	32.30	74.00	20.54	V
13623.100	50.72	-29.50	40.43	39.79	68.30	17.58	V
13567.000	50.25	-29.50	40.43	39.32	68.30	18.05	V
11450.600	48.35	-32.26	38.84	41.78	74.00	25.65	H
10650.400	47.96	-32.76	38.38	42.34	74.00	26.04	H

Channel 64

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
17985.700	54.13	-25.50	46.66	32.97	74.00	19.87	H
17932.900	53.68	-25.50	46.66	32.52	74.00	20.32	H
13632.500	50.40	-29.50	40.43	39.47	68.30	17.90	V
13767.800	49.99	-29.10	40.86	38.22	68.30	18.31	V
5350.200	69.34	-27.43	34.01	62.76	74.00	4.66	H
5351.000	68.25	-27.43	34.01	61.67	74.00	5.75	H

Channel 100

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
17978.000	54.38	-25.50	46.66	33.22	74.00	19.62	V
17990.100	53.41	-25.50	46.66	32.25	74.00	20.59	V
13718.800	50.04	-29.10	40.86	38.27	68.30	18.26	V
13625.900	50.02	-29.50	40.43	39.09	68.30	18.28	V
5453.800	56.19	-27.18	34.17	49.20	74.00	17.81	H
5469.900	62.21	-27.18	34.17	55.22	68.30	6.09	H

Channel 120

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
17986.200	53.21	-25.50	46.66	32.05	74.00	20.79	H
17930.700	53.13	-25.50	46.66	31.97	74.00	20.87	V
13652.800	50.45	-29.50	40.43	39.52	68.30	17.85	H
13745.200	50.17	-29.10	40.86	38.40	68.30	18.13	H
11871.400	48.17	-31.85	39.05	40.97	74.00	25.83	H
11756.400	47.52	-31.99	38.98	40.53	74.00	26.48	V

Channel 140

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
17942.800	53.62	-25.50	46.66	32.46	74.00	20.38	V
17929.000	53.37	-25.50	46.66	32.21	74.00	20.63	H
13605.500	50.84	-29.50	40.43	39.91	68.30	17.46	H
13623.600	50.06	-29.50	40.43	39.13	68.30	18.24	V
5725.300	63.24	-27.07	34.31	56.00	68.30	5.06	V
5725.000	61.76	-27.07	34.31	54.52	68.30	6.54	H

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Channel 36

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
17995.00	54.90	-25.50	46.66	33.74	74.00	19.10	H
17989.00	54.51	-25.50	46.66	33.35	74.00	19.49	V
13674.20	51.17	-29.50	40.43	40.24	68.30	17.13	H
13651.10	51.04	-29.50	40.43	40.11	68.30	17.26	V
5148.50	66.71	-27.61	33.67	60.65	74.00	7.29	H
5140.00	66.44	-27.61	33.67	60.38	74.00	7.56	H

Channel 40

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
17963.70	54.22	-25.50	46.66	33.06	74.00	19.78	H
17924.10	54.19	-25.50	46.66	33.03	74.00	19.81	V
13652.80	51.45	-29.50	40.43	40.52	68.30	16.85	V
13642.90	51.17	-29.50	40.43	40.24	68.30	17.13	H
11853.20	49.16	-31.85	39.05	41.96	74.00	24.84	H
11819.10	48.67	-31.85	39.05	41.47	74.00	25.33	H

Channel 48

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
17940.00	54.57	-25.50	46.66	33.41	74.00	19.43	V
17983.00	54.29	-25.50	46.66	33.13	74.00	19.71	V
13683.60	52.23	-29.50	40.43	41.30	68.30	16.07	H
13628.60	51.04	-29.50	40.43	40.11	68.30	17.26	H
11816.40	49.00	-31.85	39.05	41.80	74.00	25.00	V
11941.20	48.90	-31.48	39.09	41.29	74.00	25.10	V

Channel 52

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
17930.20	54.55	-25.50	46.66	33.39	74.00	19.45	V
17917.50	54.36	-25.50	46.66	33.20	74.00	19.64	H
13759.50	51.21	-29.10	40.86	39.44	68.30	17.09	H
13625.90	51.19	-29.50	40.43	40.26	68.30	17.11	H
11791.60	48.73	-31.99	38.98	41.74	74.00	25.27	V
11769.10	48.68	-31.99	38.98	41.69	74.00	25.32	H

Channel 56

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
17949.40	54.96	-25.50	46.66	33.80	74.00	19.04	H
17869.10	54.80	-25.50	46.66	33.64	74.00	19.20	V
14197.30	51.29	-28.99	42.00	38.27	68.30	17.01	V
14262.80	51.26	-28.42	42.34	37.34	68.30	17.04	H
11618.90	48.83	-32.31	38.91	42.24	74.00	25.17	V
11827.90	48.73	-31.85	39.05	41.53	74.00	25.27	H

Channel 64

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
17927.40	54.35	-25.50	46.66	33.19	74.00	19.65	H
17981.80	54.32	-25.50	46.66	33.16	74.00	19.68	V
14145.60	51.22	-28.99	42.00	38.20	68.30	17.08	V
13716.60	50.82	-29.10	40.86	39.05	68.30	17.48	H
5350.00	69.63	-27.43	34.01	63.05	74.00	4.37	H
5351.10	68.98	-27.43	34.01	62.40	74.00	5.02	H

Channel 100

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
17997.80	54.78	-25.50	46.66	33.62	74.00	19.22	V
17979.70	54.41	-25.50	46.66	33.25	74.00	19.59	H
13607.10	52.30	-29.50	40.43	41.37	68.30	16.00	H
13754.00	51.26	-29.10	40.86	39.49	68.30	17.04	H
5459.80	60.98	-27.18	34.17	53.99	74.00	13.02	H
5469.90	64.17	-27.18	34.17	57.18	68.30	4.13	H

Channel 120

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
17928.00	54.06	-25.50	46.66	32.90	74.00	19.94	V
17961.00	54.03	-25.50	46.66	32.87	74.00	19.97	V
13742.50	51.51	-29.10	40.86	39.74	68.30	16.79	H
13539.50	51.19	-29.56	39.99	40.76	68.30	17.11	V
10846.70	48.70	-32.33	38.59	42.44	74.00	25.30	V
11871.90	48.48	-31.85	39.05	41.28	74.00	25.52	H

Channel 140

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
17591.90	54.32	-25.74	45.95	34.11	68.30	13.98	H
17995.60	54.25	-25.50	46.66	33.09	74.00	19.75	V
13653.40	51.81	-29.50	40.43	40.88	68.30	16.49	V
14172.00	51.57	-28.99	42.00	38.55	68.30	16.73	V
5726.20	62.72	-27.07	34.31	55.48	68.30	5.58	H
5725.50	62.71	-27.07	34.31	55.47	68.30	5.59	H

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Channel 36

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
17238.20	54.50	-25.95	44.35	36.09	68.30	13.80	H
17930.70	54.36	-25.50	46.66	33.20	74.00	19.64	H
14631.80	51.61	-27.29	41.90	37.00	68.30	16.69	H
13647.90	51.58	-29.50	40.43	40.65	68.30	16.72	H
5144.00	66.77	-27.61	33.67	60.71	74.00	7.23	H
5149.90	65.77	-27.61	33.67	59.71	74.00	8.23	H

Channel 40

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
17591.30	54.57	-25.74	45.95	34.36	68.30	13.73	V
17981.80	54.37	-25.50	46.66	33.21	74.00	19.63	V
14208.30	50.98	-28.99	42.00	37.96	68.30	17.32	V
13612.60	50.85	-29.50	40.43	39.92	68.30	17.45	V
11835.10	48.95	-31.85	39.05	41.75	74.00	25.05	H
11038.10	48.90	-32.49	38.72	42.66	74.00	25.10	V

Channel 48

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
17947.20	54.58	-25.50	46.66	33.42	74.00	19.42	H
17602.90	54.42	-25.74	45.95	34.21	68.30	13.88	H
13629.10	51.13	-29.50	40.43	40.20	68.30	17.17	H
14205.00	50.98	-28.99	42.00	37.96	68.30	17.32	V
11750.90	48.79	-31.99	38.98	41.80	74.00	25.21	V
11779.50	48.75	-31.99	38.98	41.76	74.00	25.25	H

Channel 52

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
17958.80	54.83	-25.50	46.66	33.67	74.00	19.17	H
17956.00	54.79	-25.50	46.66	33.63	74.00	19.21	V
14190.10	51.76	-28.99	42.00	38.74	68.30	16.54	V
13666.50	50.83	-29.50	40.43	39.90	68.30	17.47	H
11881.30	48.80	-31.85	39.05	41.60	74.00	25.20	V
11917.00	48.79	-31.48	39.09	41.18	74.00	25.21	V

Channel 56

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
17992.80	54.51	-25.50	46.66	33.35	74.00	19.49	H
17973.60	54.29	-25.50	46.66	33.13	74.00	19.71	V
13628.00	51.51	-29.50	40.43	40.58	68.30	16.79	H
14196.80	51.39	-28.99	42.00	38.37	68.30	16.91	V
11831.20	48.57	-31.85	39.05	41.37	74.00	25.43	H
11241.10	48.48	-32.36	38.77	42.08	74.00	25.52	H

Channel 64

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
17933.50	54.38	-25.50	46.66	33.22	74.00	19.62	V
17923.50	54.28	-25.50	46.66	33.12	74.00	19.72	V
13689.10	51.35	-29.50	40.43	40.42	68.30	16.95	H
13569.80	50.84	-29.50	40.43	39.91	68.30	17.46	V
5350.70	69.84	-27.43	34.01	63.26	74.00	4.16	H
5350.50	69.49	-27.43	34.01	62.91	74.00	4.51	H

Channel 100

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
17829.50	54.90	-25.50	46.66	33.74	74.00	19.10	H
17413.20	54.72	-26.85	45.25	36.32	68.30	13.58	V
13531.80	50.93	-29.56	39.99	40.50	68.30	17.37	H
14613.60	50.91	-27.29	41.90	36.30	68.30	17.39	H
5458.10	60.54	-27.18	34.17	53.55	74.00	13.46	H
5466.00	65.08	-27.18	34.17	58.09	68.30	3.22	H

Channel 120

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
17963.20	54.46	-25.50	46.66	33.30	74.00	19.54	H
17974.20	53.77	-25.50	46.66	32.61	74.00	20.23	H
13716.60	51.31	-29.10	40.86	39.54	68.30	16.99	V
14092.20	51.18	-29.44	41.66	38.96	68.30	17.12	H
11847.70	48.82	-31.85	39.05	41.62	74.00	25.18	H
11911.50	48.66	-31.85	39.05	41.46	74.00	25.34	V

Channel 140

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
17987.30	54.18	-25.50	46.66	33.02	74.00	19.82	V
17948.30	54.06	-25.50	46.66	32.90	74.00	19.94	H
14197.30	51.54	-28.99	42.00	38.52	68.30	16.76	H
13606.00	50.91	-29.50	40.43	39.98	68.30	17.39	V
5725.10	64.52	-27.07	34.31	57.28	68.30	3.78	H
5725.60	62.68	-27.07	34.31	55.44	68.30	5.62	H

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Channel 38

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
17907.000	54.05	-25.50	46.66	32.89	74.00	19.95	V
17579.200	53.82	-25.74	45.95	33.61	68.30	14.48	H
13660.500	51.04	-29.50	40.43	40.11	68.30	17.26	H
13817.200	50.47	-29.10	40.86	38.70	68.30	17.83	V
5149.100	70.12	-27.61	33.67	64.06	74.00	3.88	H
5149.500	69.88	-27.61	33.67	63.82	74.00	4.12	H

Channel 46

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
17966.500	54.00	-25.50	46.66	32.84	74.00	20.00	H
17395.000	53.67	-26.85	45.25	35.27	68.30	14.63	V
13658.300	50.19	-29.50	40.43	39.26	68.30	18.11	H
14073.500	50.11	-29.44	41.66	37.89	68.30	18.19	V
11854.300	47.76	-31.85	39.05	40.56	74.00	26.24	H
11937.400	47.75	-31.48	39.09	40.14	74.00	26.25	H

Channel 54

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
17996.200	53.73	-25.50	46.66	32.57	74.00	20.27	V
17941.700	53.62	-25.50	46.66	32.46	74.00	20.38	V
13553.200	50.57	-29.56	39.99	40.14	68.30	17.73	V
13673.100	50.52	-29.50	40.43	39.59	68.30	17.78	V
11785.000	47.74	-31.99	38.98	40.75	74.00	26.26	H
11837.200	47.35	-31.85	39.05	40.15	74.00	26.65	V

Channel 62

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
17951.600	53.58	-25.50	46.66	32.42	74.00	20.42	V
17995.000	53.27	-25.50	46.66	32.11	74.00	20.73	H
13739.100	50.39	-29.10	40.86	38.62	68.30	17.91	V
13634.600	50.27	-29.50	40.43	39.34	68.30	18.03	V
5352.900	68.21	-27.43	34.01	61.63	74.00	5.79	H
5353.300	67.98	-27.43	34.01	61.40	74.00	6.02	H

Channel 102

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
17984.600	53.18	-25.50	46.66	32.02	74.00	20.82	V
17989.000	53.17	-25.50	46.66	32.01	74.00	20.83	H
13716.600	50.49	-29.10	40.86	38.72	68.30	17.81	H
13637.400	50.07	-29.50	40.43	39.14	68.30	18.23	H
5457.600	58.04	-27.18	34.17	51.05	74.00	15.96	H
5470.000	62.06	-27.18	34.17	55.07	68.30	6.24	H

Channel 118

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
17989.000	53.66	-25.50	46.66	32.50	74.00	20.34	H
17994.000	53.02	-25.50	46.66	31.86	74.00	20.98	H
13618.700	50.93	-29.50	40.43	40.00	68.30	17.37	H
13519.100	50.16	-29.56	39.99	39.73	68.30	18.14	H
11036.500	48.18	-32.49	38.72	41.94	74.00	25.82	V
11834.000	48.16	-31.85	39.05	40.96	74.00	25.84	V

Channel 134

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
17987.300	54.53	-25.50	46.66	33.37	74.00	19.47	H
17985.200	54.09	-25.50	46.66	32.93	74.00	19.91	H
13648.400	50.77	-29.50	40.43	39.84	68.30	17.53	V
14080.100	50.28	-29.44	41.66	38.06	68.30	18.02	V
5725.400	63.93	-27.07	34.31	56.69	68.30	4.37	H
5725.300	63.87	-27.07	34.31	56.63	68.30	4.43	H

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Channel 38

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
17979.70	54.67	-25.50	46.66	33.51	74.00	19.33	V
17998.30	54.58	-25.50	46.66	33.42	74.00	19.42	H
13583.00	51.16	-29.50	40.43	40.23	68.30	17.14	V
13648.40	51.10	-29.50	40.43	40.17	68.30	17.20	V
5145.60	69.44	-27.61	33.67	63.38	74.00	4.56	H
5149.10	68.07	-27.61	33.67	62.01	74.00	5.93	H

Channel 46

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
17975.80	54.34	-25.50	46.66	33.18	74.00	19.66	V
17970.30	54.26	-25.50	46.66	33.10	74.00	19.74	V
14181.90	50.99	-28.99	42.00	37.97	68.30	17.31	V
13579.10	50.71	-29.50	40.43	39.78	68.30	17.59	V
11885.10	49.91	-31.85	39.05	42.71	74.00	24.09	H
11954.40	49.16	-31.48	39.09	41.55	74.00	24.84	H

Channel 54

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
17824.00	54.64	-25.50	46.66	33.48	74.00	19.36	V
17981.30	54.40	-25.50	46.66	33.24	74.00	19.60	V
13641.80	51.75	-29.50	40.43	40.82	68.30	16.55	H
13719.90	51.23	-29.10	40.86	39.46	68.30	17.07	H
11613.40	48.83	-32.31	38.91	42.24	74.00	25.17	H
11874.70	48.64	-31.85	39.05	41.44	74.00	25.36	H

Channel 62

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
17992.30	54.18	-25.50	46.66	33.02	74.00	19.82	V
17983.00	53.85	-25.50	46.66	32.69	74.00	20.15	V
13744.60	50.63	-29.10	40.86	38.86	68.30	17.67	V
13616.50	50.57	-29.50	40.43	39.64	68.30	17.73	H
5351.80	71.68	-27.43	34.01	65.10	74.00	2.32	H
5352.20	69.37	-27.43	34.01	62.79	74.00	4.63	H

Channel 102

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
17959.30	54.38	-25.50	46.66	33.22	74.00	19.62	V
17980.20	54.13	-25.50	46.66	32.97	74.00	19.87	H
13687.50	51.50	-29.50	40.43	40.57	68.30	16.80	V
14293.00	51.33	-28.42	42.34	37.41	68.30	16.97	H
5458.30	62.59	-27.18	34.17	55.60	74.00	11.41	H
5463.50	65.70	-27.18	34.17	58.71	68.30	2.60	H

Channel 118

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
17952.70	54.73	-25.50	46.66	33.57	74.00	19.27	H
17962.00	54.48	-25.50	46.66	33.32	74.00	19.52	H
13715.50	51.58	-29.10	40.86	39.81	68.30	16.72	V
13686.90	51.39	-29.50	40.43	40.46	68.30	16.91	H
11767.40	49.14	-31.99	38.98	42.15	74.00	24.86	V
11614.00	48.69	-32.31	38.91	42.10	74.00	25.31	V

Channel 134

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
17997.80	54.58	-25.50	46.66	33.42	74.00	19.42	V
17983.50	54.09	-25.50	46.66	32.93	74.00	19.91	H
13574.70	50.90	-29.50	40.43	39.97	68.30	17.40	V
14221.50	50.90	-28.99	42.00	37.88	68.30	17.40	H
5732.10	62.48	-27.07	34.31	55.24	68.30	5.82	H
5728.20	61.69	-27.07	34.31	54.45	68.30	6.61	H

802.11ac-HT80

Channel 42

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
17986.20	54.87	-25.50	46.66	33.71	74.00	19.13	V
17977.50	54.35	-25.50	46.66	33.19	74.00	19.65	H
14137.40	50.97	-28.99	42.00	37.95	68.30	17.33	V
13718.20	50.58	-29.10	40.86	38.81	68.30	17.72	V
5148.20	65.17	-27.61	33.67	59.11	74.00	8.83	H
5147.70	65.04	-27.61	33.67	58.98	74.00	8.96	H

Channel 58

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
17997.20	54.44	-25.50	46.66	33.28	74.00	19.56	V
17968.70	54.22	-25.50	46.66	33.06	74.00	19.78	V
13704.00	51.25	-29.10	40.86	39.48	68.30	17.05	H
13642.90	50.83	-29.50	40.43	39.90	68.30	17.47	V
5352.20	69.34	-27.43	34.01	62.76	74.00	4.66	H
5357.40	69.02	-27.43	34.01	62.44	74.00	4.98	H

Channel 106

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
17969.80	54.89	-25.50	46.66	33.73	74.00	19.11	V
17942.80	54.65	-25.50	46.66	33.49	74.00	19.35	H
13647.90	52.35	-29.50	40.43	41.42	68.30	15.95	V
13667.10	50.80	-29.50	40.43	39.87	68.30	17.50	V
5448.80	63.21	-27.18	34.17	56.22	74.00	10.79	H
5468.10	62.68	-27.18	34.17	55.69	68.30	5.62	H

Sample calculation: 802.11ac 80MHz CH106–Peak, 17969.80MHz

$$\text{Peak ERP(dBm)} = P_{\text{Mea}}(33.73 \text{ dBuV/m}) + \text{Cable Loss}(-25.50) + \text{Antenna Factor}(46.66) = 54.89 \text{ dBuV/m}$$

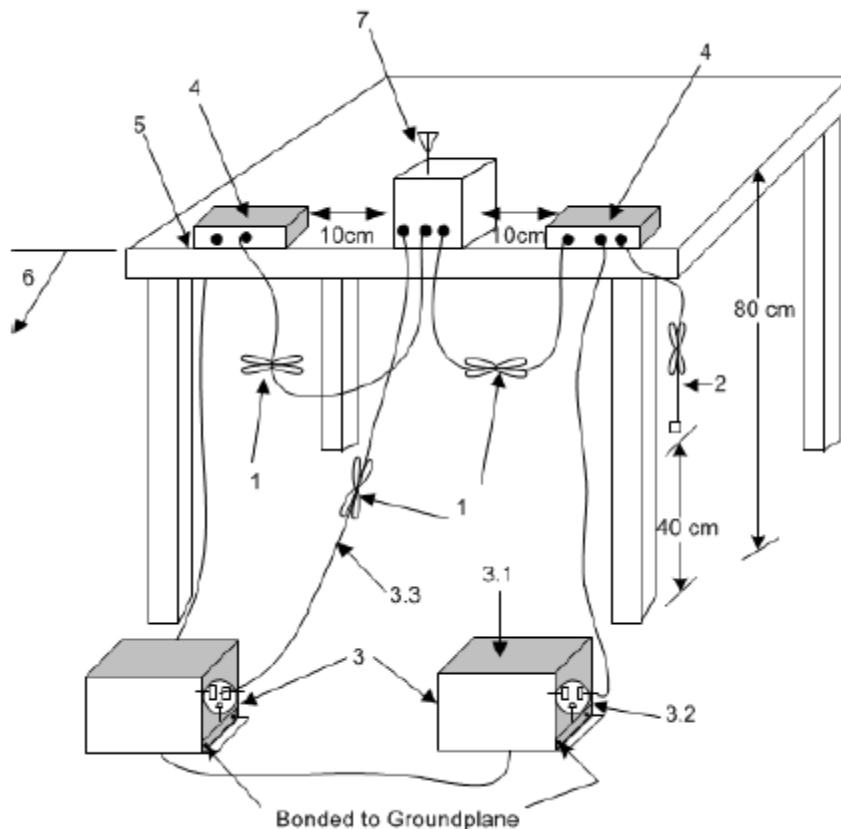
A.7. AC Powerline Conducted Emission (150kHz- 30MHz)

Method of Measurement: See ANSI C63.10-clause 6.2

Setup:

A stand-alone EUT shall be placed in the center along the back edge of the tabletop. For multiunit tabletop systems, the EUT shall be centered laterally (left to right facing the tabletop) on the tabletop and its rear shall be flush with the rear of the table.

Accessories that are part of an EUT system tested on a tabletop shall be placed in a test arrangement on one or both sides of the host with a 10 cm separation between the nearest points of the cabinets. The rear of the host and accessories shall be flush with the back of the supporting tabletop unless that would not be typical of normal use. If more than two accessories are present, then an equipment test arrangement shall be chosen that maintains 10 cm spacing between cabinets unless the equipment is normally located closer together.



Exploratory ac power-line conducted emission measurements

Exploratory measurements shall be used to identify the frequency of the emission that has the highest amplitude relative to the limit by operating the EUT in a range of typical modes of operation, cable positions, and with a typical system equipment configuration and arrangement. For each mode of operation and for each ac power current-carrying conductor, cable manipulation shall be performed within the range of likely configurations. For this measurement or series of measurements, the frequency spectrum of interest shall be monitored looking for the emission that has the highest amplitude relative to the limit. Once that emission is found for each current-carrying conductor of each power cord associated with the EUT (but not the cords associated with non-EUT equipment in the overall system), the one configuration and

arrangement and mode of operation that produces the emission closest to the limit over all of the measured conductors shall be recorded.

Final ac power-line conducted emission measurements

Based on the exploratory tests of the EUT, the one EUT cable configuration and arrangement and mode of operation that produced the emission with the highest amplitude relative to the limit is selected for the final measurement, while applying the appropriate modulating signal to the EUT. If the EUT is relocated from an exploratory test site to a final test site, the highest emissions shall be remaximized at the final test location before final ac power-line conducted emission measurements are performed. The final test on all current-carrying conductors of all of the power cords to the equipment that comprises the EUT (but not the cords associated with other non-EUT equipment in the system) is then performed for the full frequency range for which the EUT is being tested for compliance without further variation of the EUT arrangement, cable positions, or EUT mode of operation. If the EUT is composed of equipment units that have their own separate ac power connections (e.g., floor-standing equipment with independent power cords for each shelf that are able to connect directly to the ac power network), then each current-carrying conductor of one unit is measured while the other units are connected to a second (or more) LISN(s). All units shall be measured separately. If a power strip is provided by the manufacturer, to supply all of the units making up the EUT, only the conductors in the power cord of the power strip shall be measured.

Test Condition:

Voltage (V)	Frequency (Hz)
120	60

Measurement Result and limit:

EUT ID: UT04a
WLAN (Quasi-peak Limit)

Frequency range (MHz)	Quasi-peak Limit (dBμV)	Result (dBμV)		Conclusion
		With charger		
		11a mode	Idle	
0.15 to 0.5	66 to 56	Fig.57	Fig.58	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 (dBμV)	Result (dBμV)		Conclusion
		With charger		
		11a mode	Idle	
0.15 to 0.5	56 to 46	Fig.57	Fig.58	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.				

Conclusion: PASS

Test graphs as below:

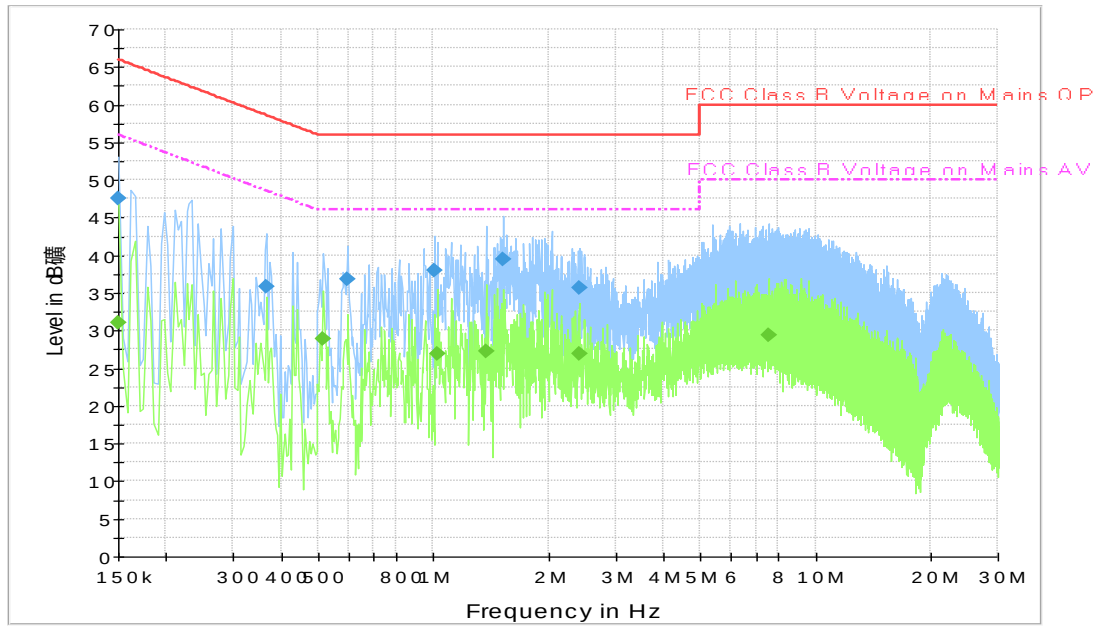


Fig.57 Conducted Emission(802.11a, Ch40, TX) ,

Final Result 1

Frequency (MHz)	QuasiPeak (dBμV)	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.150000	47.5	N	20.0	18.5	66.0
0.366000	35.8	N	19.9	22.8	58.6
0.598000	36.8	N	19.9	19.2	56.0
1.010000	37.9	N	19.8	18.1	56.0
1.526000	39.5	N	19.8	16.5	56.0
2.418000	35.7	N	19.8	20.3	56.0

Final Result 2

Frequency (MHz)	Average (dBμV)	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.150000	31.0	N	20.0	25.0	56.0
0.514000	28.9	N	20.0	17.1	46.0
1.026000	27.0	N	19.8	19.0	46.0
1.374000	27.3	N	19.8	18.7	46.0
2.402000	26.9	N	19.8	19.1	46.0
7.518000	29.4	L1	19.5	20.6	50.0

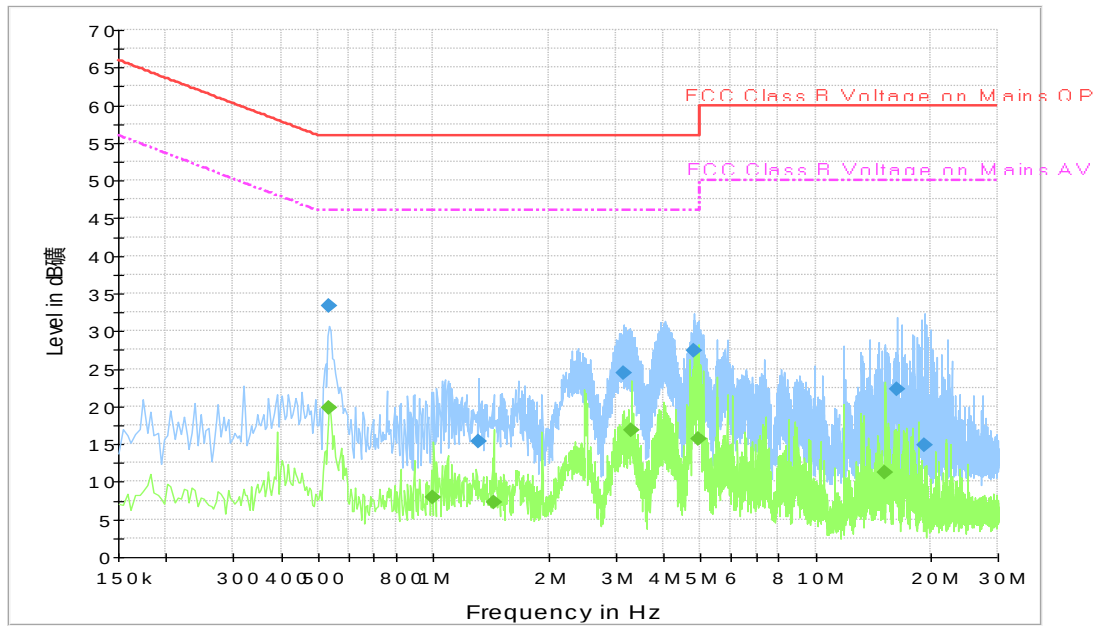


Fig.58 Conducted Emission(802.11a, IDLE)

Final Result 1

Frequency (MHz)	QuasiPeak (dBμV)	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.534000	33.3	L1	19.9	22.7	56.0
1.314000	15.3	L1	19.5	40.7	56.0
3.154000	24.5	N	19.7	31.5	56.0
4.818000	27.5	L1	19.6	28.5	56.0
16.290000	22.3	L1	19.9	37.7	60.0
19.226000	14.8	L1	19.9	45.2	60.0

Final Result 2

Frequency (MHz)	Average (dBμV)	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.534000	19.8	L1	19.9	26.2	46.0
1.002000	8.0	N	19.8	38.0	46.0
1.438000	7.2	N	19.8	38.8	46.0
3.306000	16.8	L1	19.5	29.2	46.0
4.950000	15.6	L1	19.6	30.4	46.0
15.190000	11.2	L1	19.9	38.8	50.0

A.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
802.11a	5180 MHz	Fig.59	17.79	P
	5200 MHz	Fig.60	17.92	P
	5240 MHz	Fig.61	17.86	P
802.11n HT20	5180 MHz	Fig.62	18.56	P
	5200 MHz	Fig.63	18.54	P
	5240 MHz	Fig.64	18.77	P
802.11n HT40	5190 MHz	Fig.65	36.42	P
	5230 MHz	Fig.66	36.45	P
802.11ac HT80	5210 MHz	Fig.67	75.34	P

Conclusion: PASS

Test graphs as below:

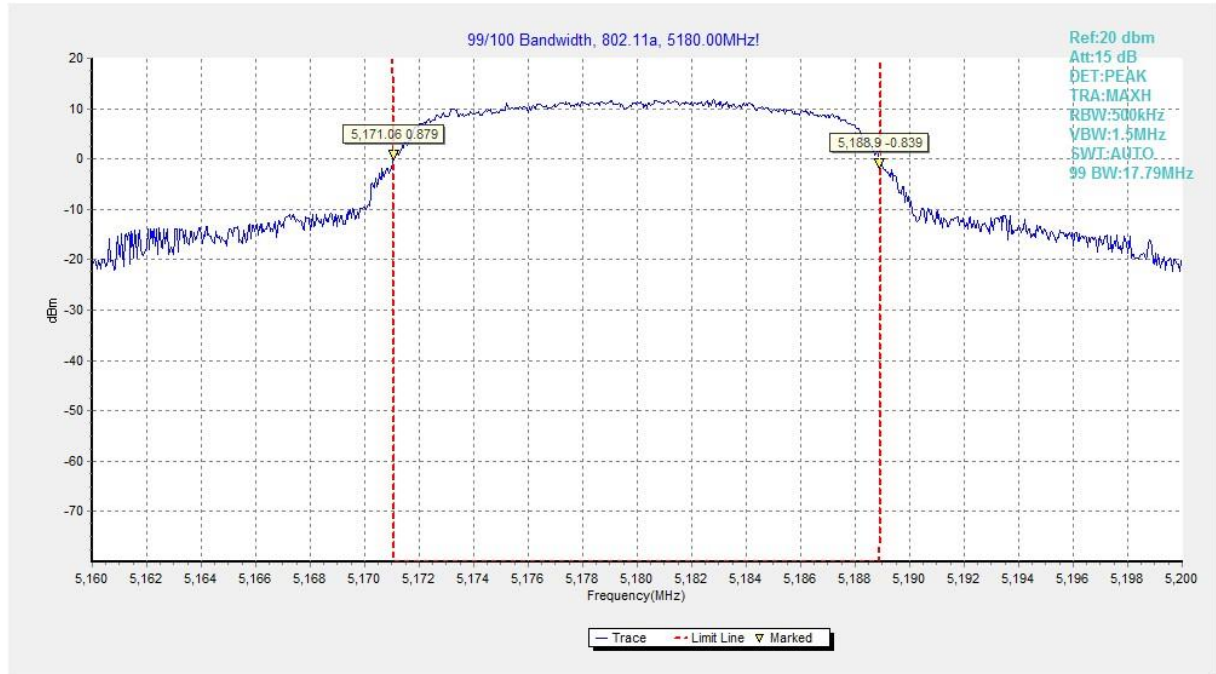


Fig.59 99% Occupied bandwidth (802.11a, 5180MHz)

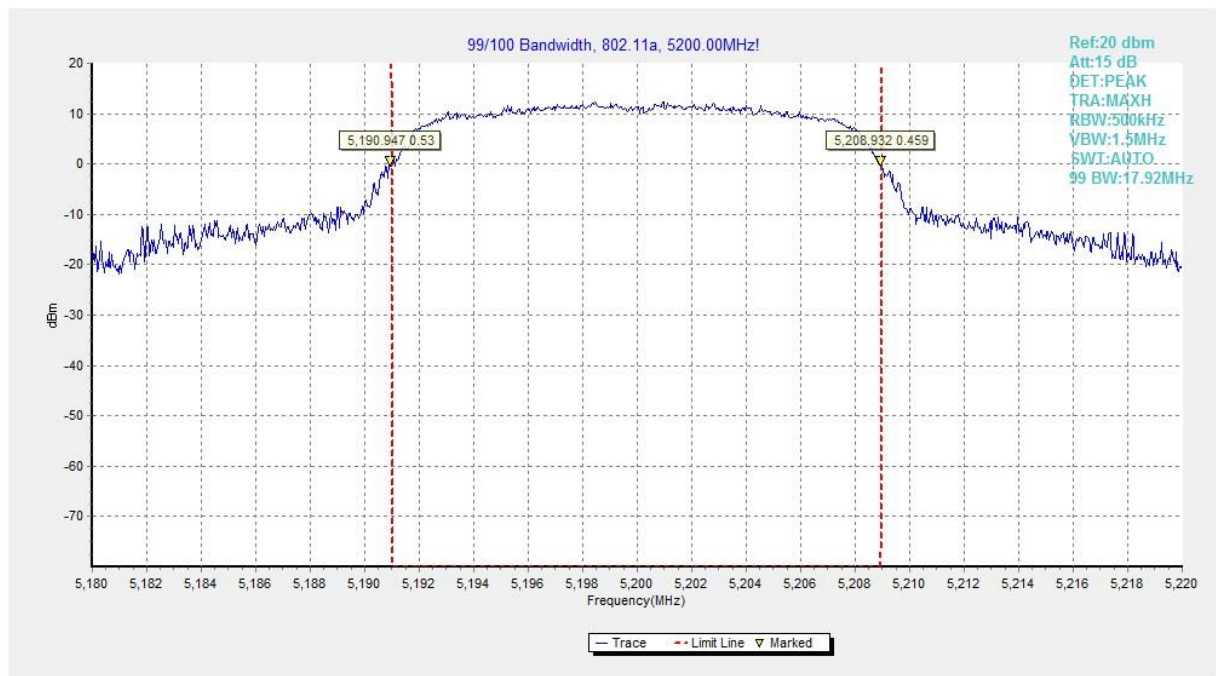


Fig.60 99% Occupied bandwidth (802.11a, 5200MHz)

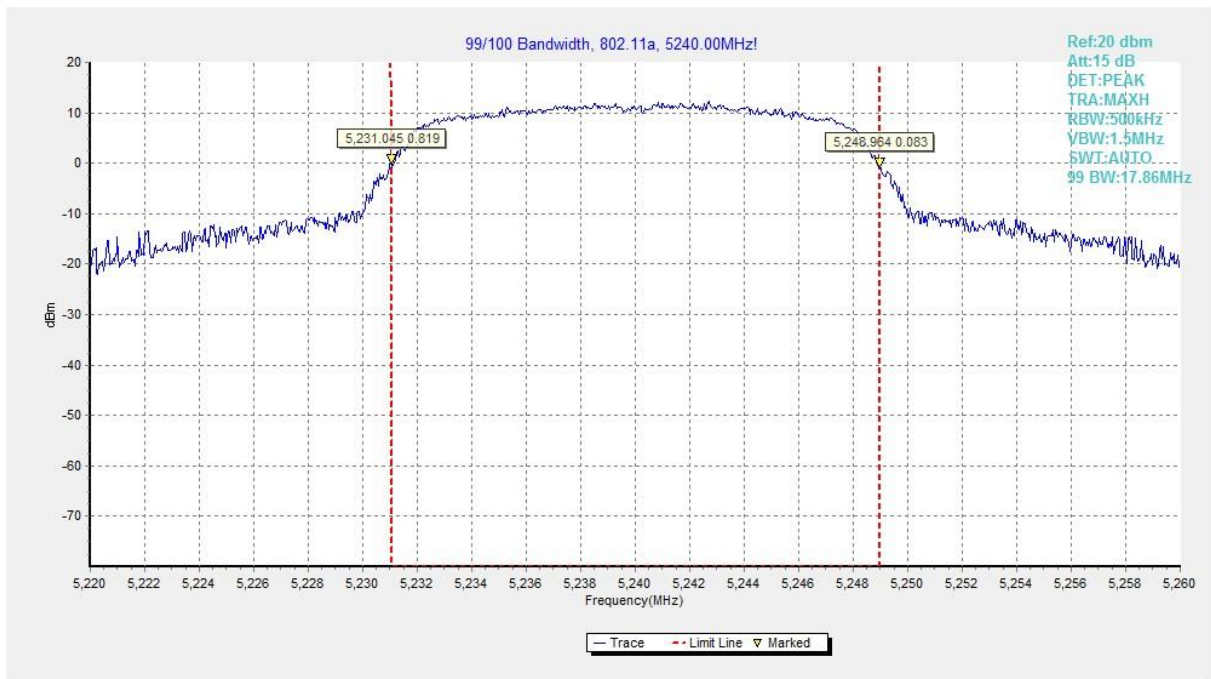


Fig.61 99% Occupied bandwidth (802.11a, 5240MHz)

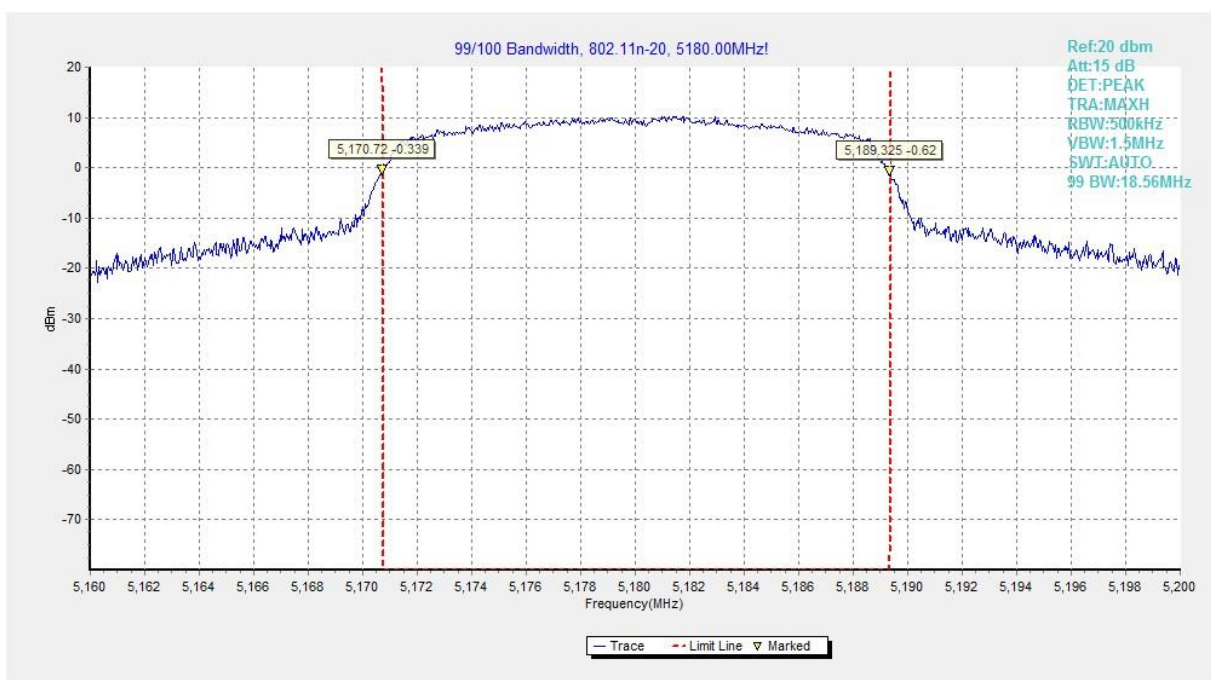


Fig.62 99% Occupied bandwidth (802.11n-HT20, 5180MHz)



Fig.63 99% Occupied bandwidth (802.11n-HT20, 5200MHz)

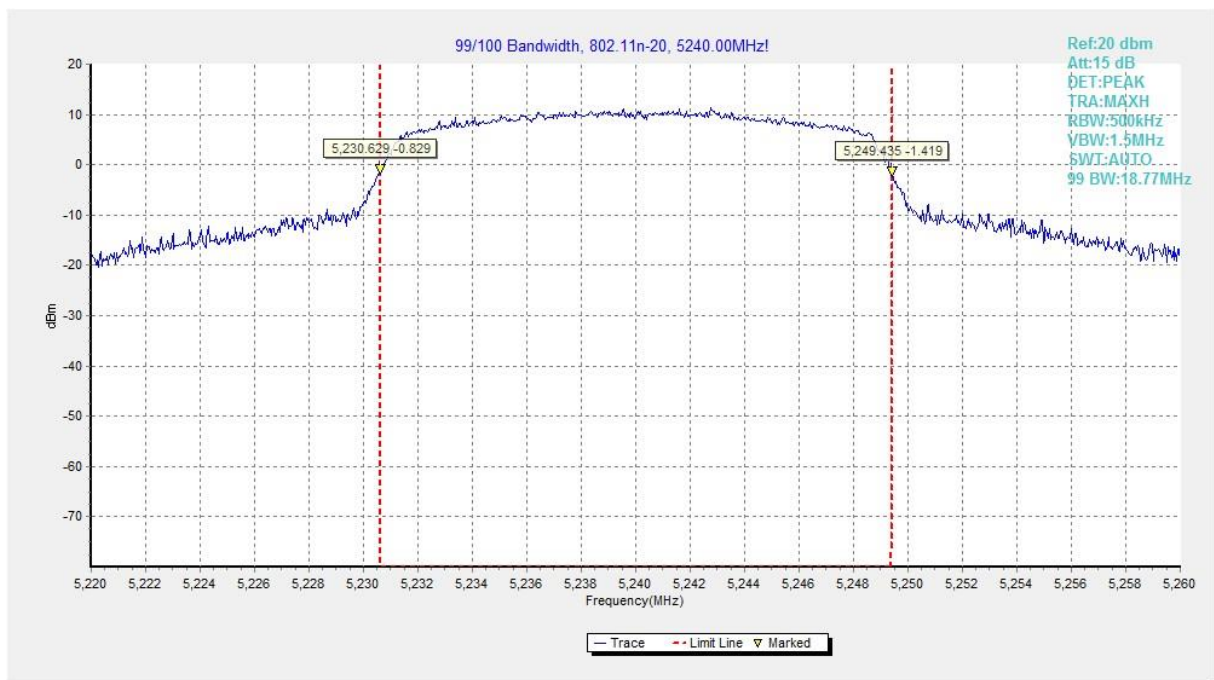


Fig.64 99% Occupied bandwidth (802.11n-HT20, 5240MHz)

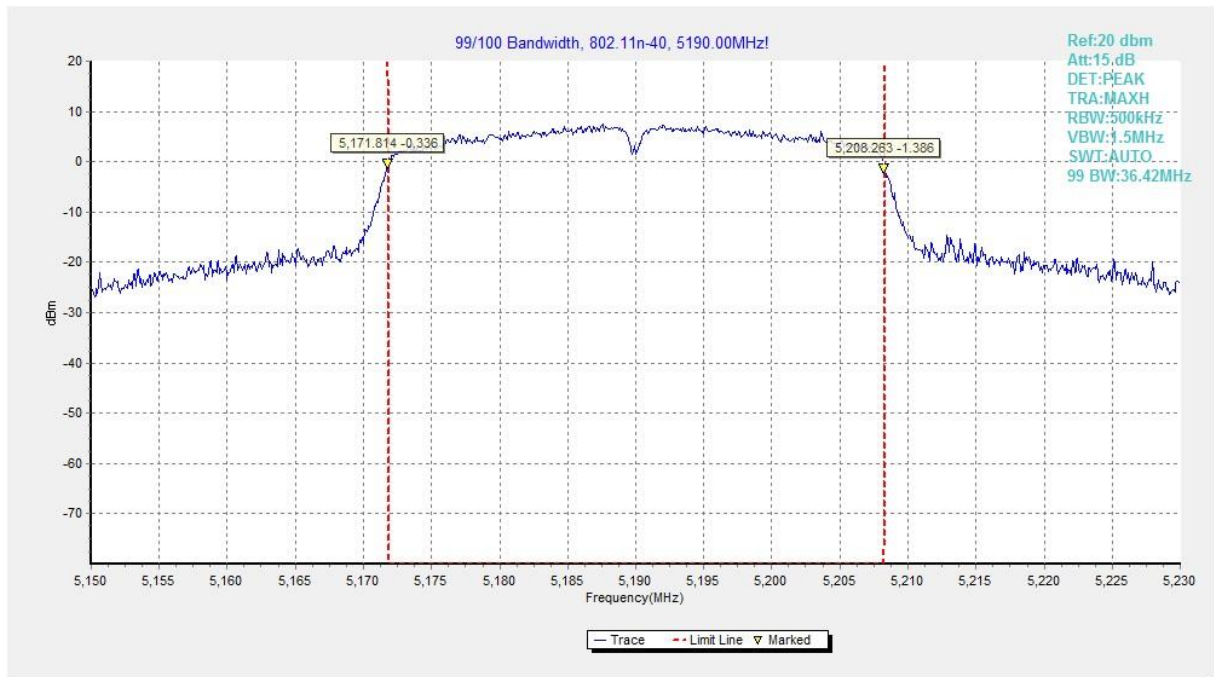


Fig.65 99% Occupied bandwidth (802.11n-HT40, 5190MHz)

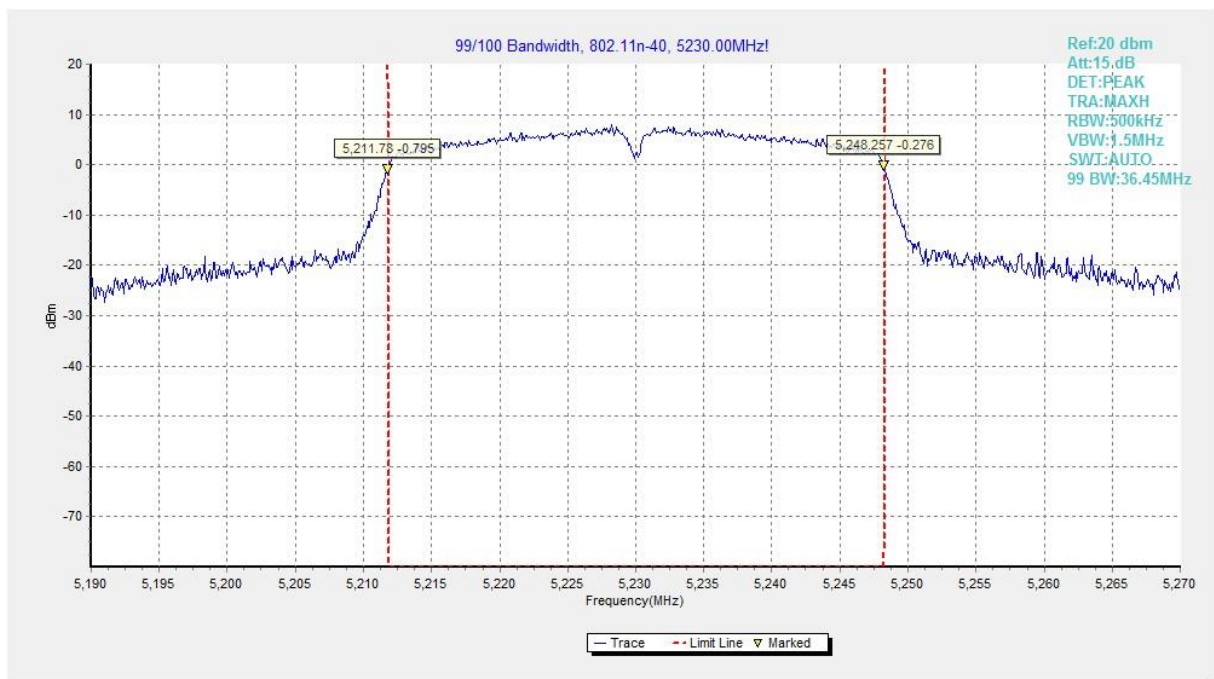


Fig.66 99% Occupied bandwidth (802.11n-HT40, 5230MHz)

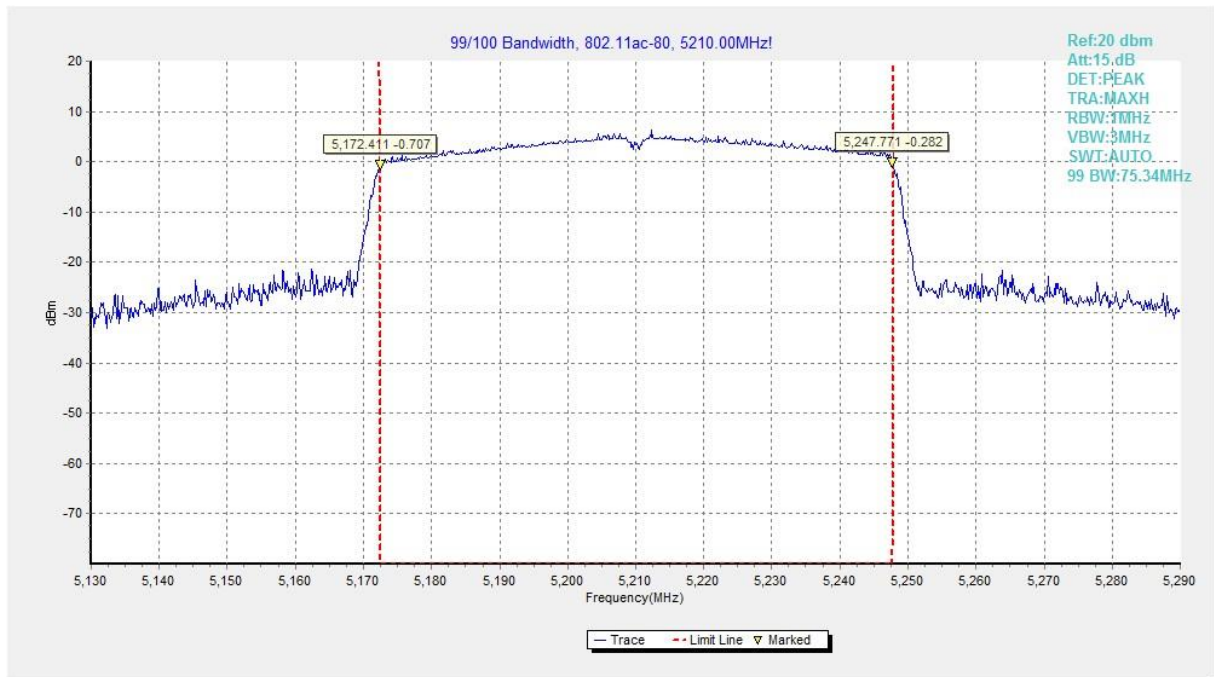


Fig.67 99% Occupied bandwidth (802.11ac-HT80, 5210MHz)

A.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 B: EUT parameters

Disclaimer: The worse case and antenna gain 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 C: Accreditation Certificate



*** END OF REPORT BODY ***