

RE - Power-5.325GHz-5.460GHz

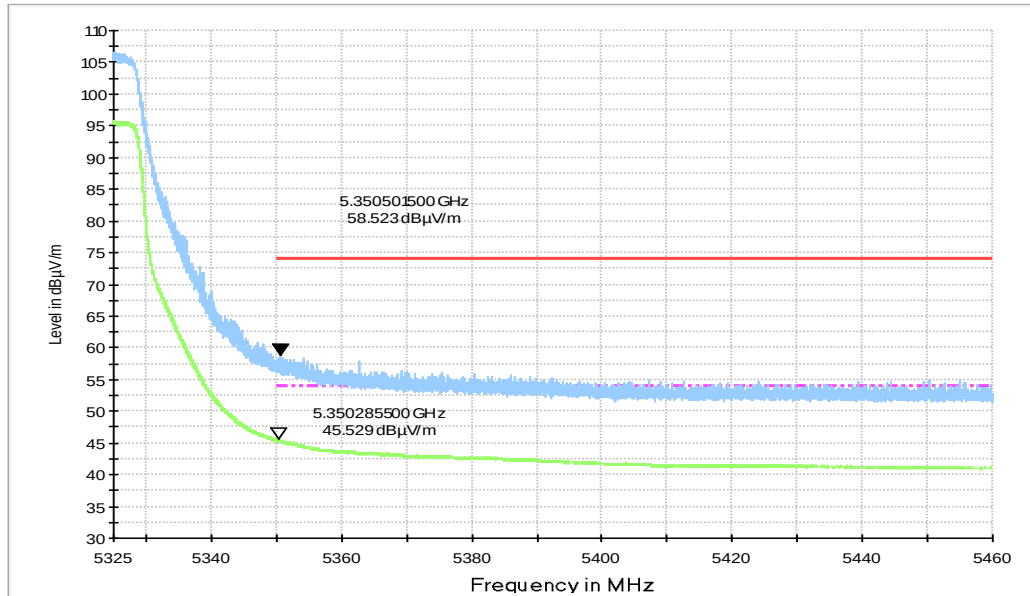


Fig.55 Band Edges (802.11n-HT20, 5320MHz)

RE - Power-5.35GHz-5.50GHz

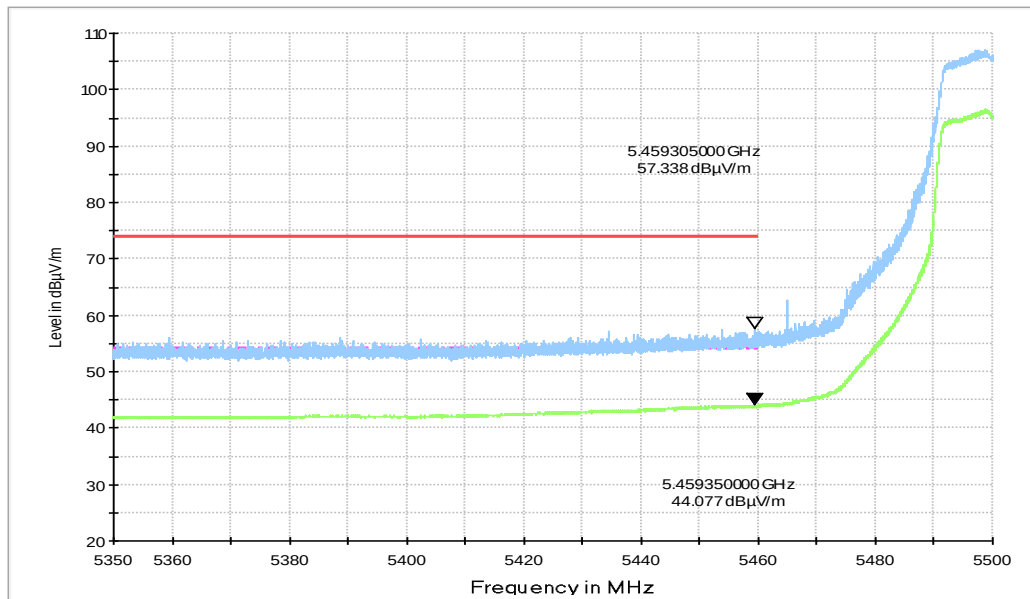


Fig.56 Band Edges (802.11n-HT20, 5500MHz)

RE - Power-5.70GHz-5.825GHz

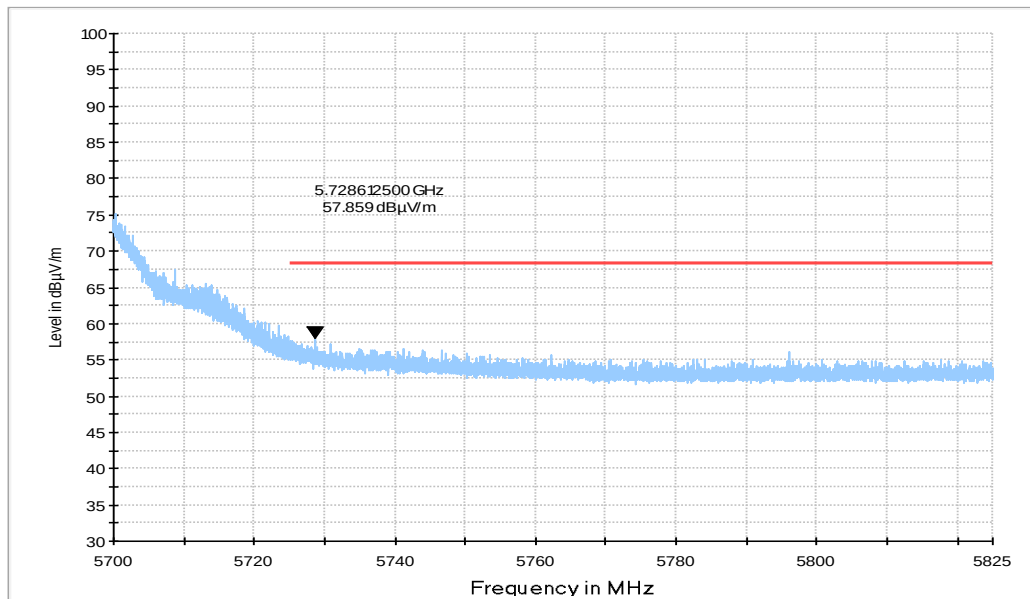


Fig.57 Band Edges (802.11n-HT20, 5680MHz)

RE - Power-5.70GHz-5.825GHz

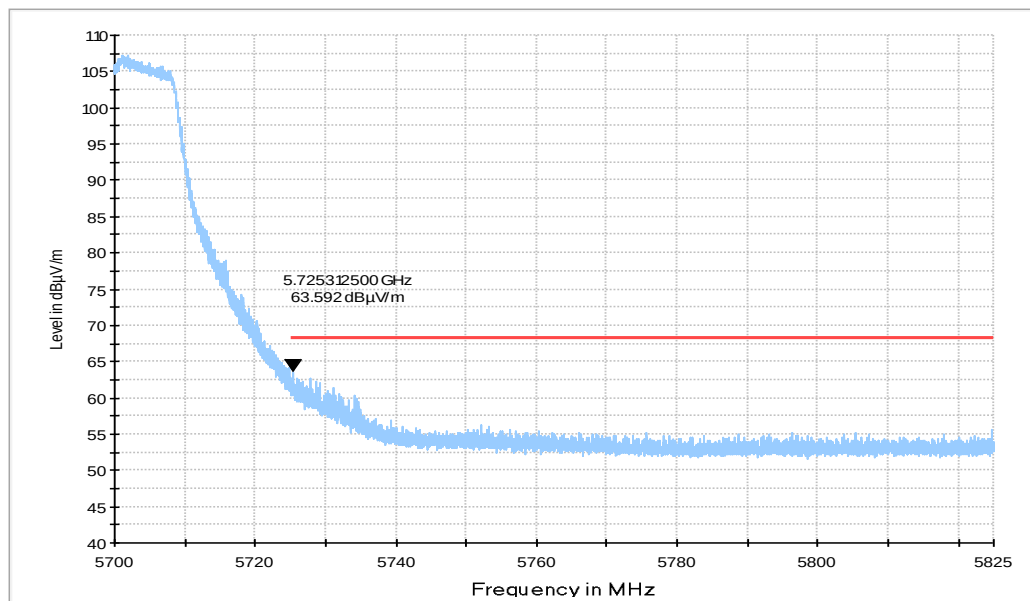


Fig.58 Band Edges (802.11n-HT20, 5700MHz)

RE - Power-5.000GHz-5.175GHz

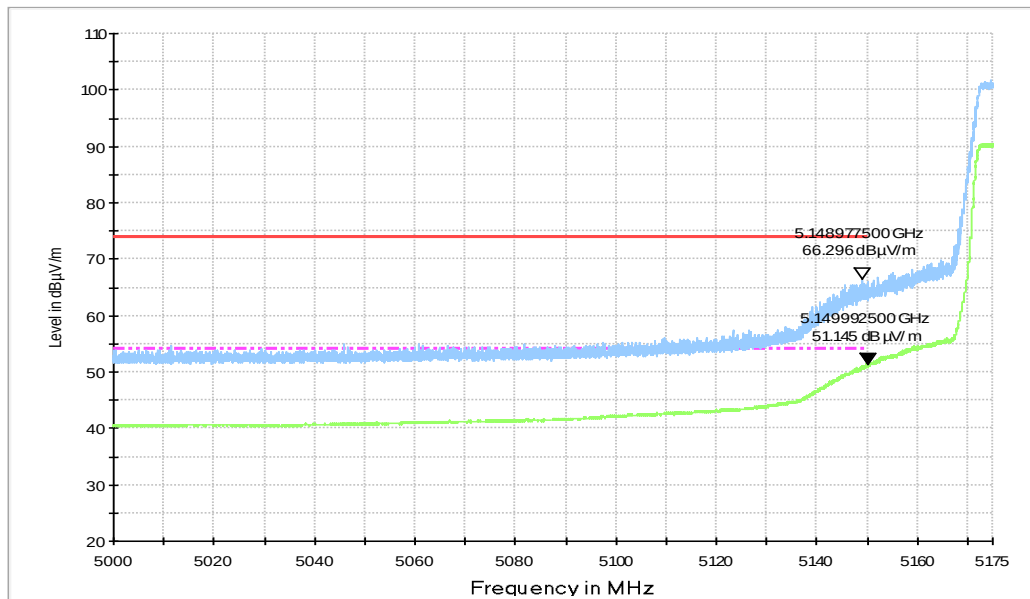


Fig.59 Band Edges (802.11n-HT40, 5190MHz)

RE - Power-5.000GHz-5.175GHz

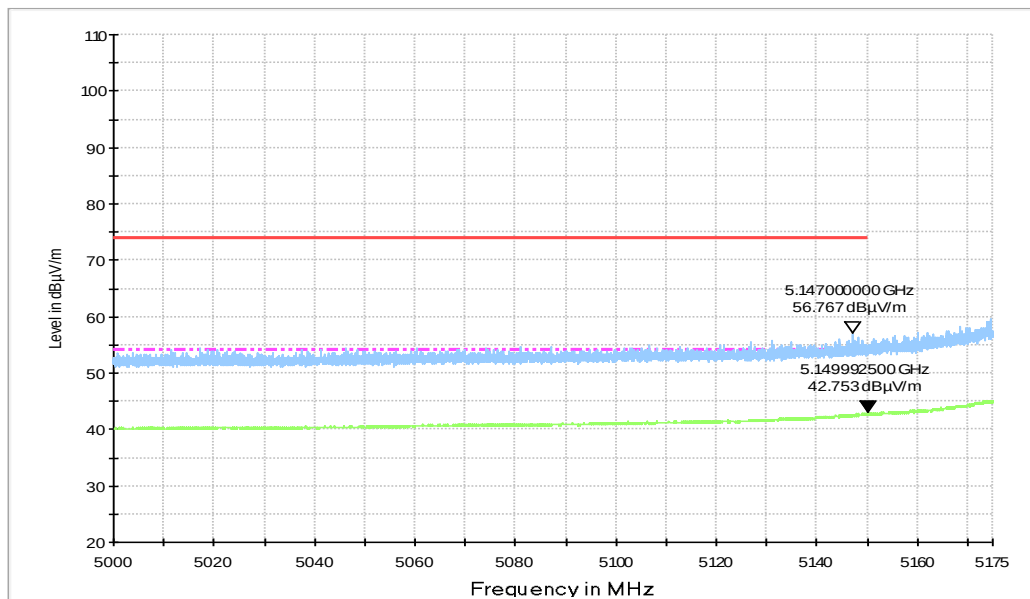


Fig.60 Band Edges (802.11n-HT40, 5230MHz)

RE - Power-5.325GHz-5.460GHz

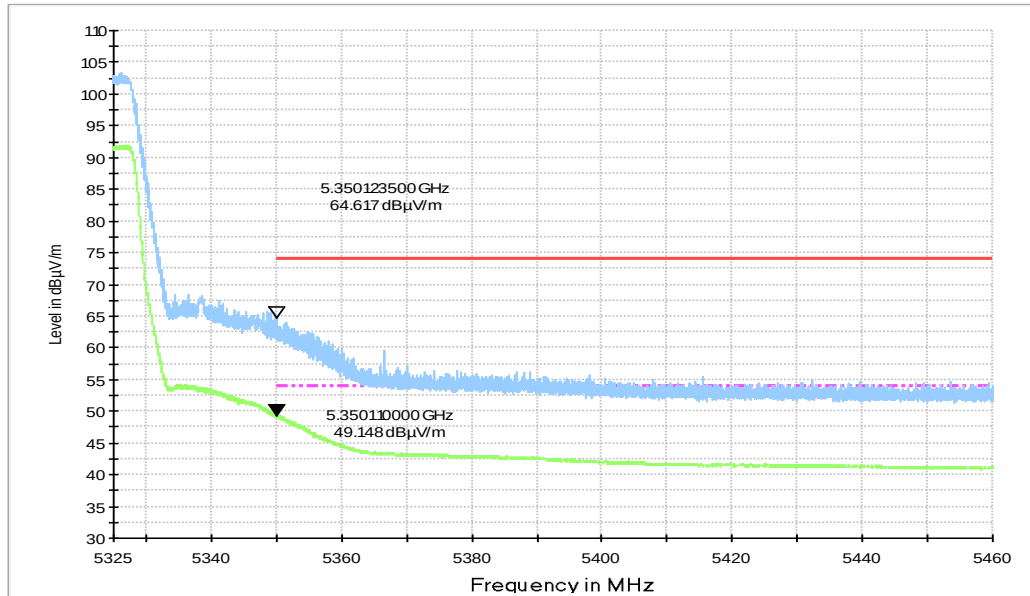


Fig.61 Band Edges (802.11n-HT40, 5310MHz)

RE - Power-5.35GHz-5.50GHz

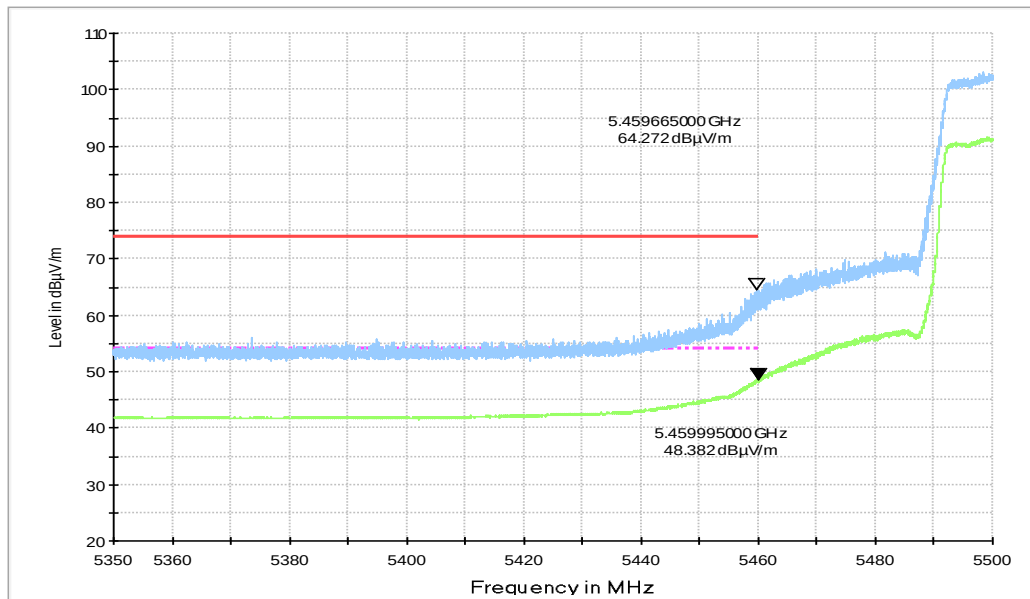


Fig.62 Band Edges (802.11n-HT40, 5510MHz)

RE - Power-5.70GHz-5.825GHz

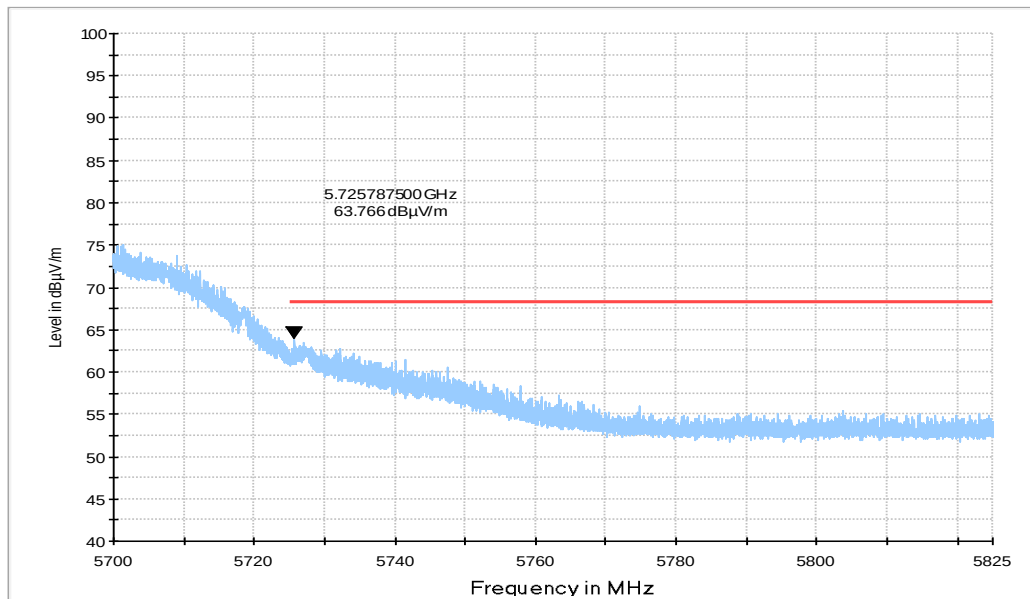


Fig.63 Band Edges (802.11n-HT40, 5670MHz)

RE - Power-5.000GHz-5.175GHz

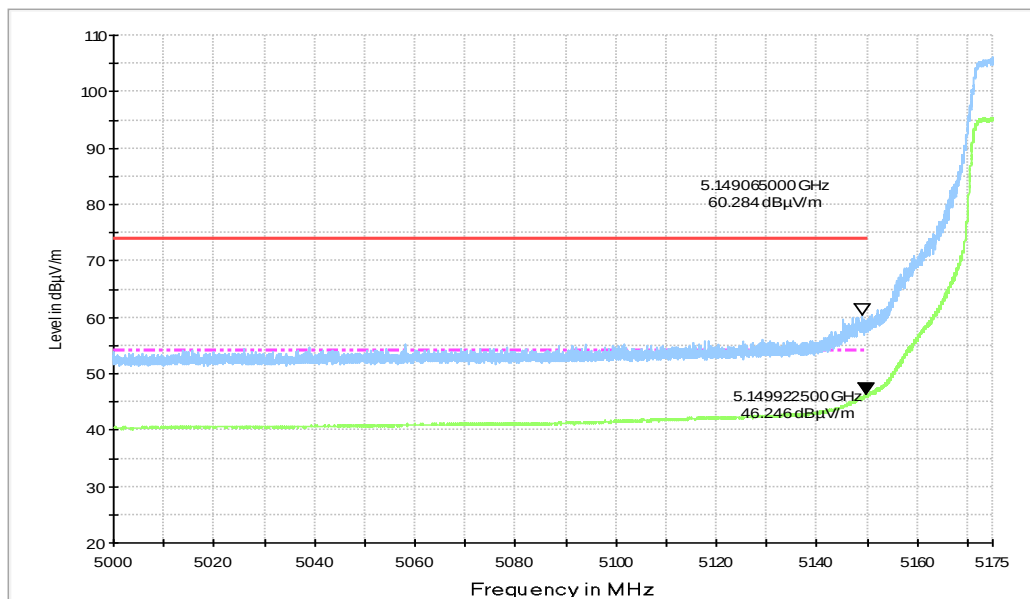


Fig.64 Band Edges (802.11ac-HT20, 5180MHz)

RE - Power-5.325GHz-5.460GHz

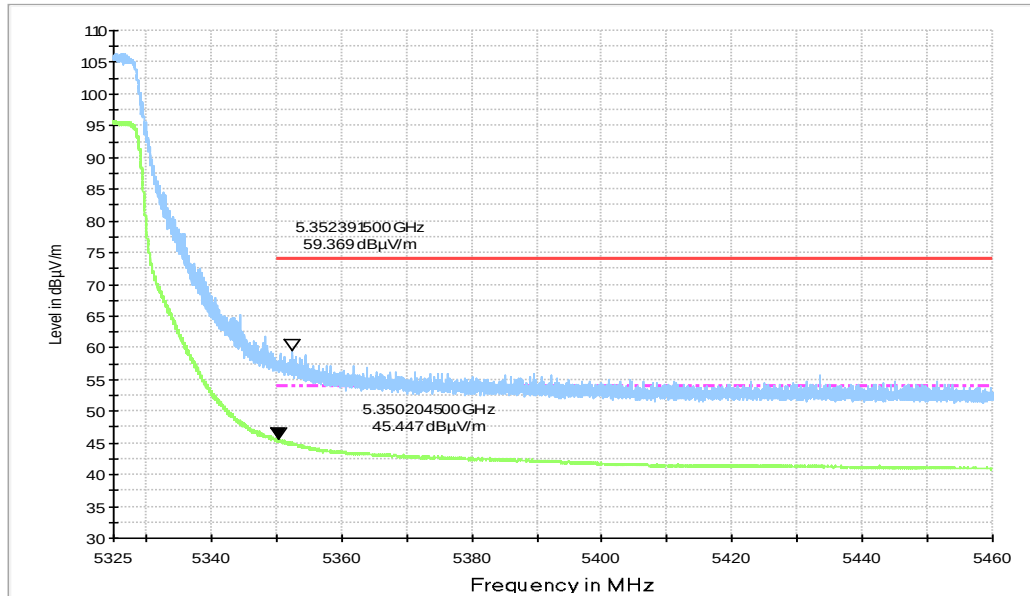


Fig.65 Band Edges (802.11ac-HT20, 5320MHz)

RE - Power-5.35GHz-5.50GHz

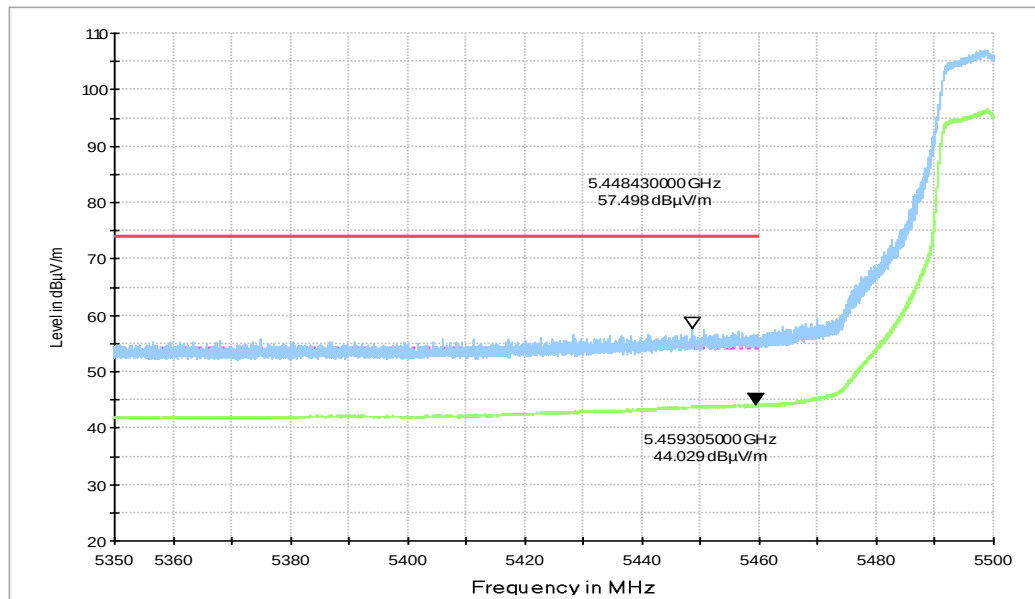


Fig.66 Band Edges (802.11ac-HT20, 5500MHz)

RE - Power-5.70GHz-5.825GHz

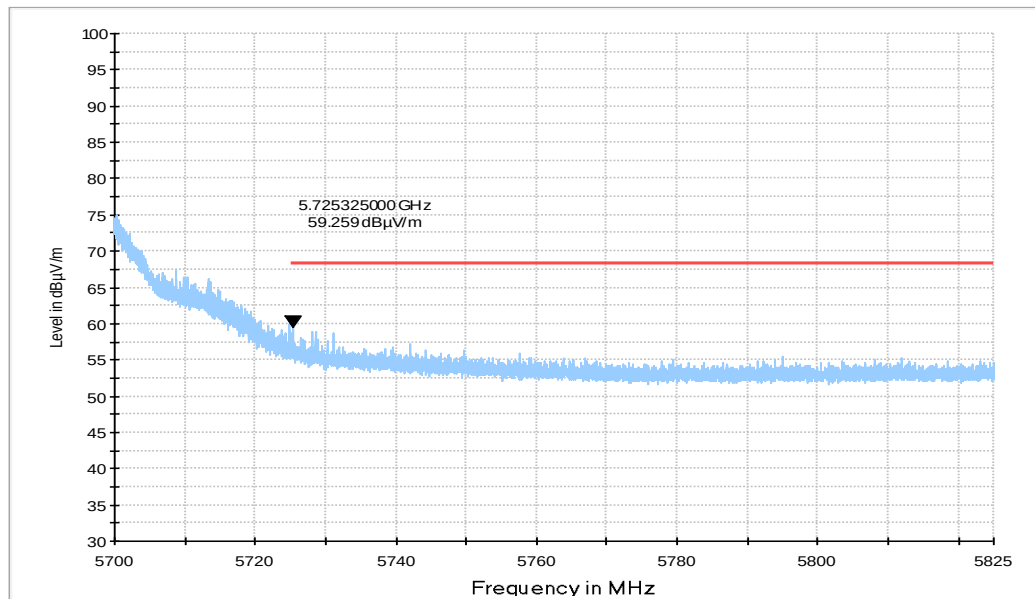


Fig.67 Band Edges (802.11ac-HT20, 5680MHz)

RE - Power-5.70GHz-5.825GHz

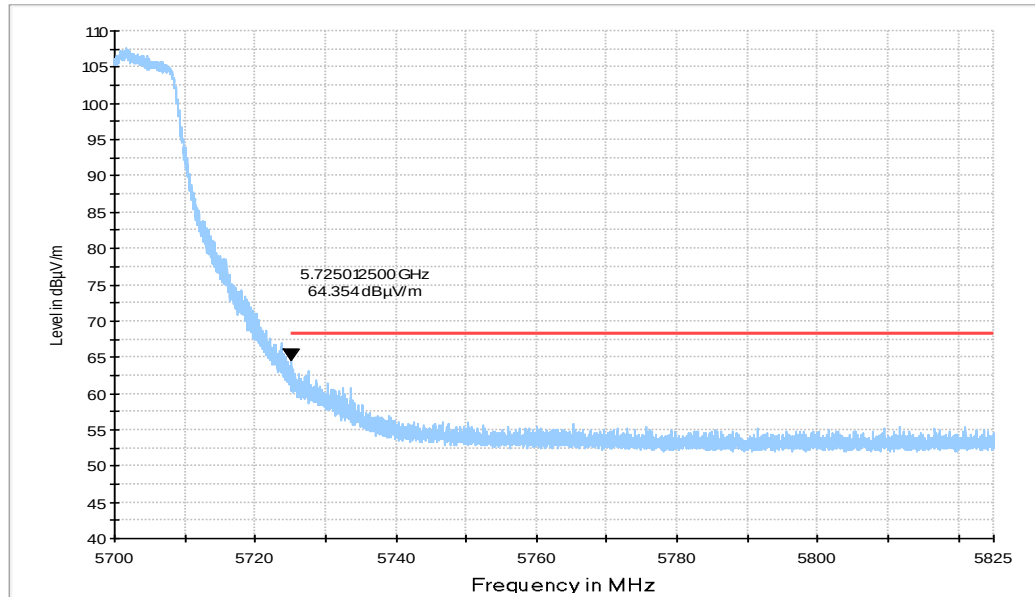


Fig.68 Band Edges (802.11ac-HT20, 5700MHz)

RE - Power-5.000GHz-5.175GHz

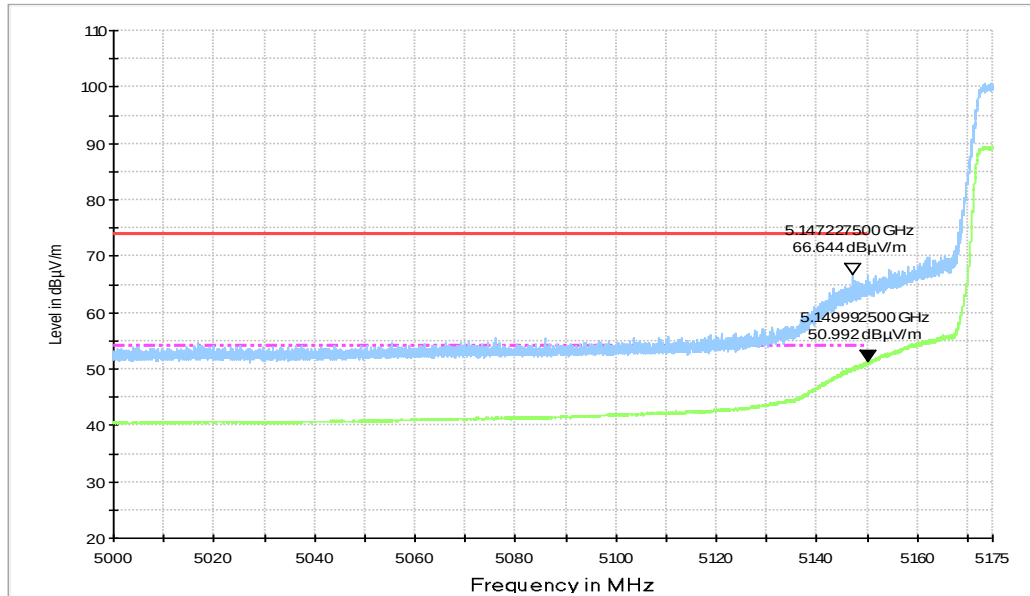


Fig.69 Band Edges (802.11ac-HT40, 5190MHz)

RE - Power-5.000GHz-5.175GHz

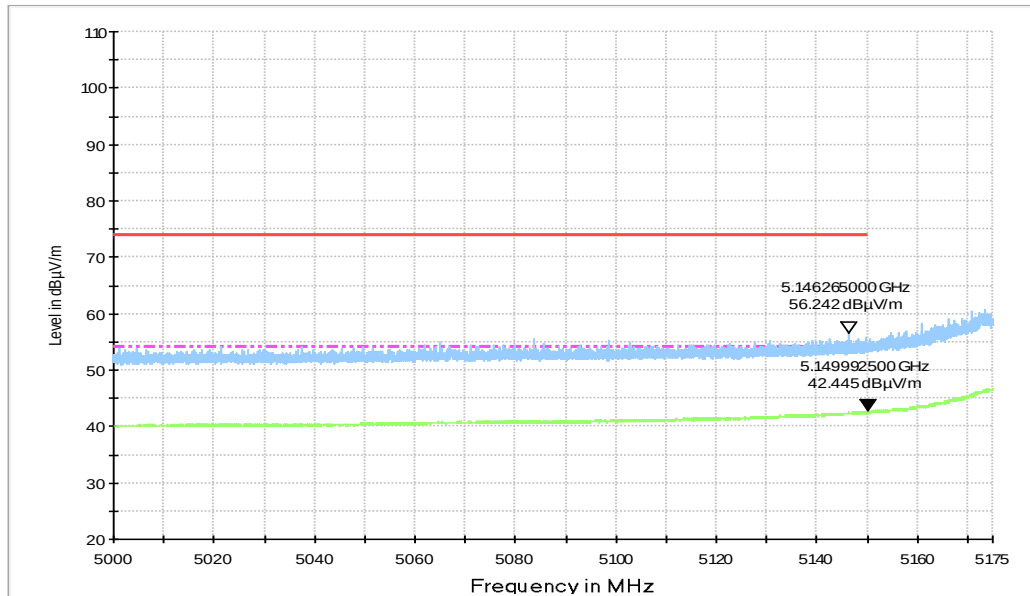


Fig.70 Band Edges (802.11ac-HT40, 5230MHz)

RE - Power-5.325GHz-5.460GHz

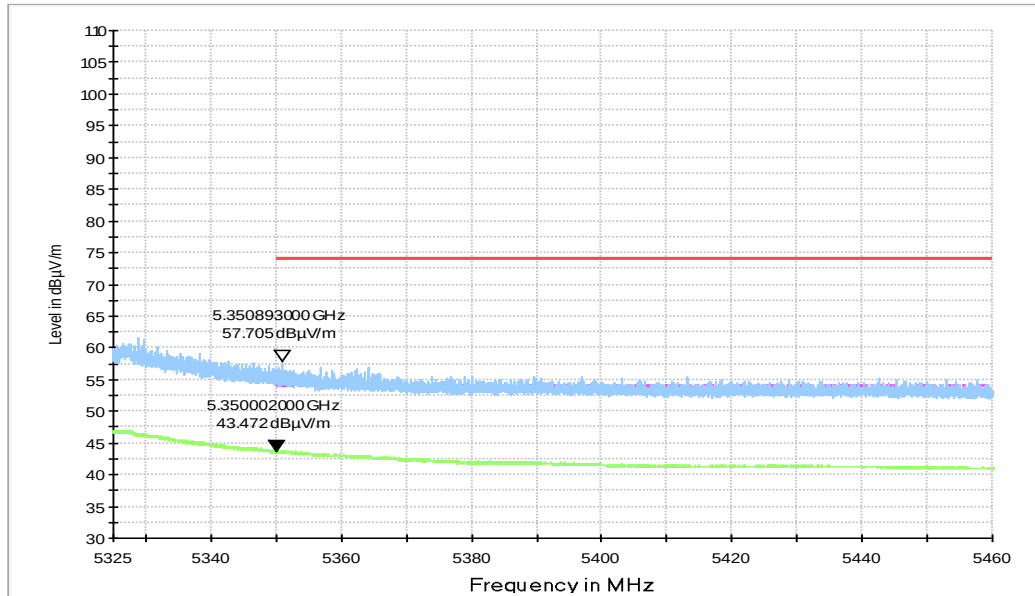


Fig.71 Band Edges (802.11ac-HT40, 5270MHz)

RE - Power-5.325GHz-5.460GHz

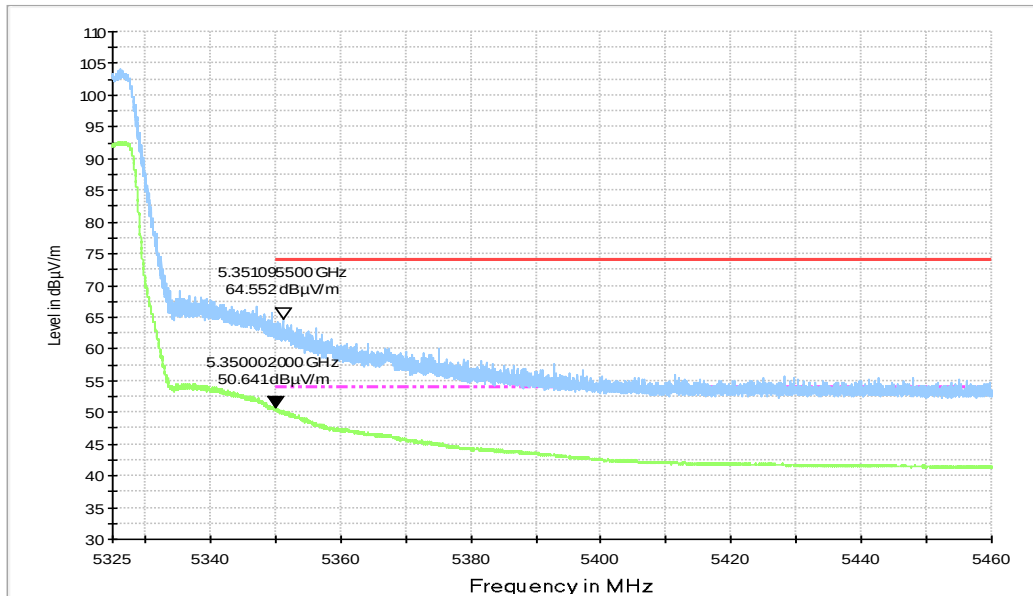


Fig.72 Band Edges (802.11ac-HT40, 5310MHz)

RE - Power-5.35GHz-5.50GHz

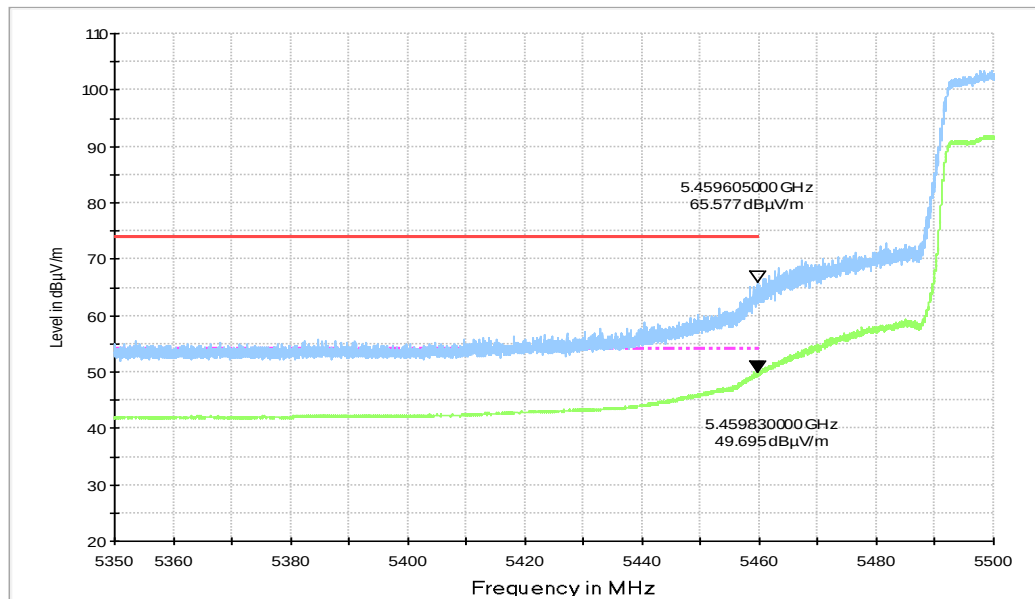


Fig.73 Band Edges (802.11ac-HT40, 5510MHz)

RE - Power-5.70GHz-5.825GHz

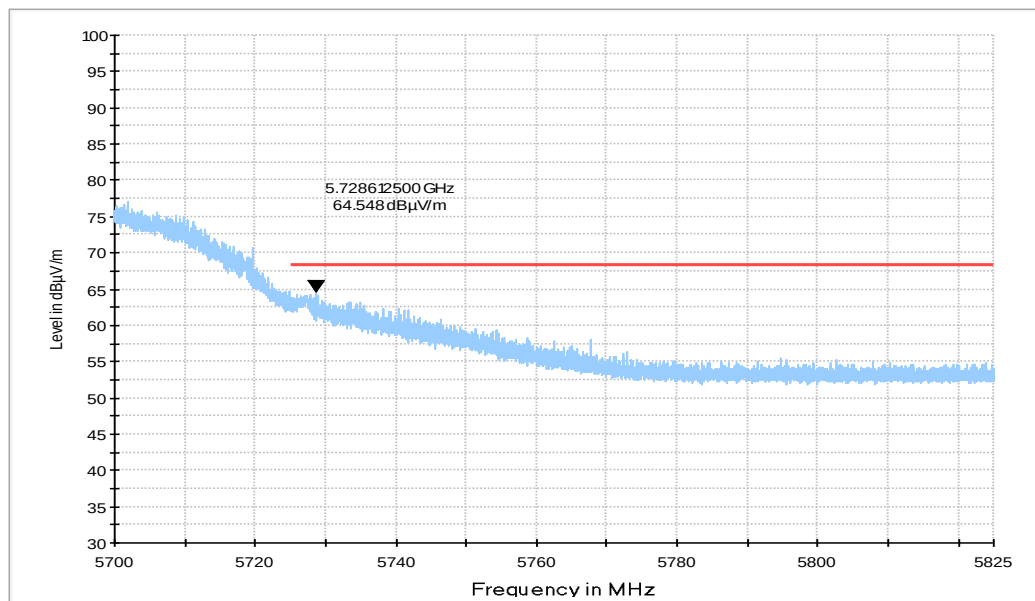


Fig.74 Band Edges (802.11ac-HT40, 5670MHz)

RE - Power-5.000GHz-5.175GHz

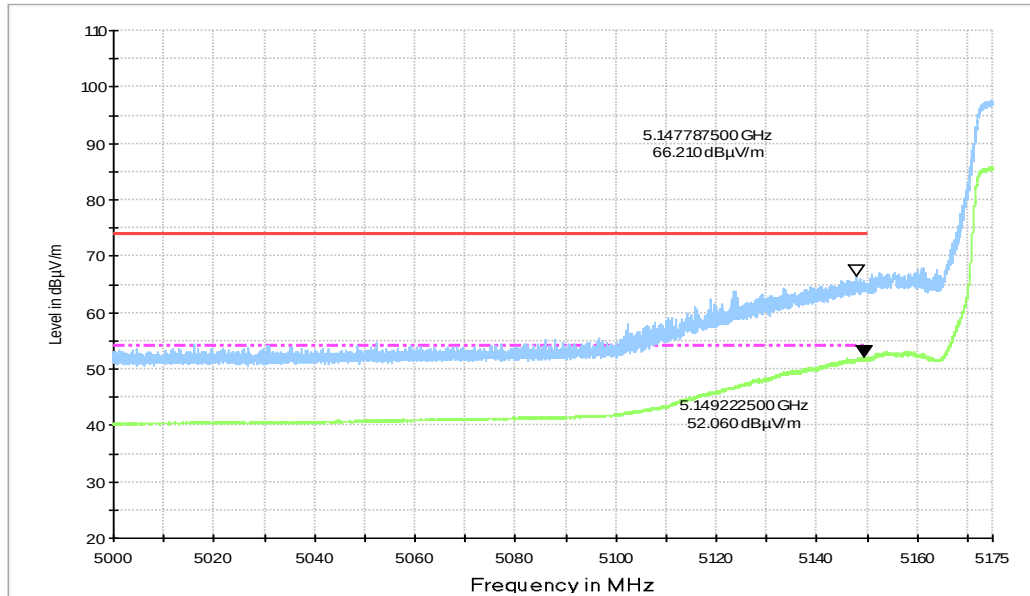


Fig.75 Band Edges (802.11ac-HT80, 5210MHz)

RE - Power-5.325GHz-5.460GHz

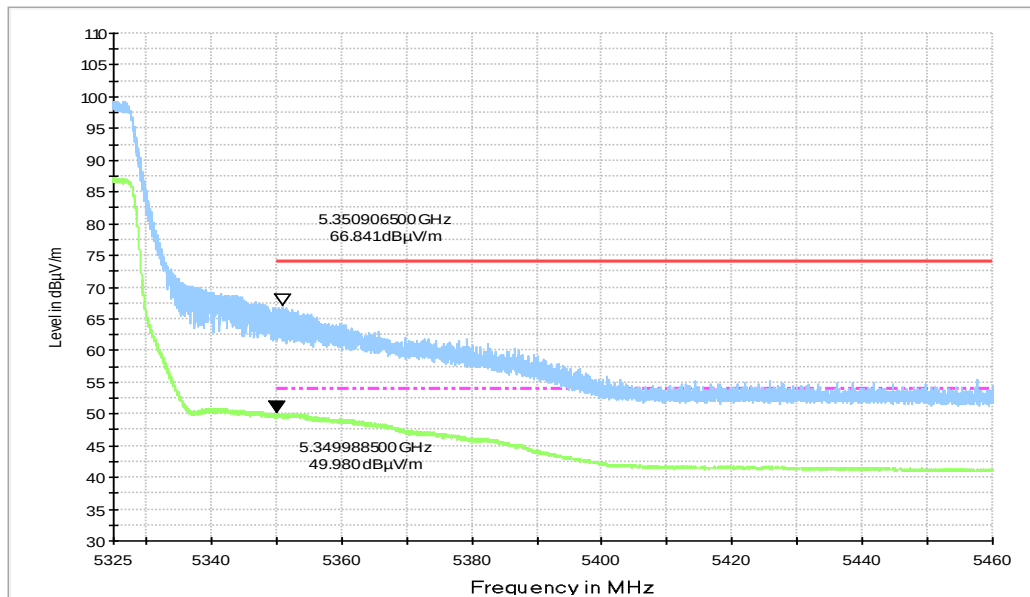


Fig.76 Band Edges (802.11ac-HT80, 5290MHz)

RE - Power-5.35GHz-5.50GHz

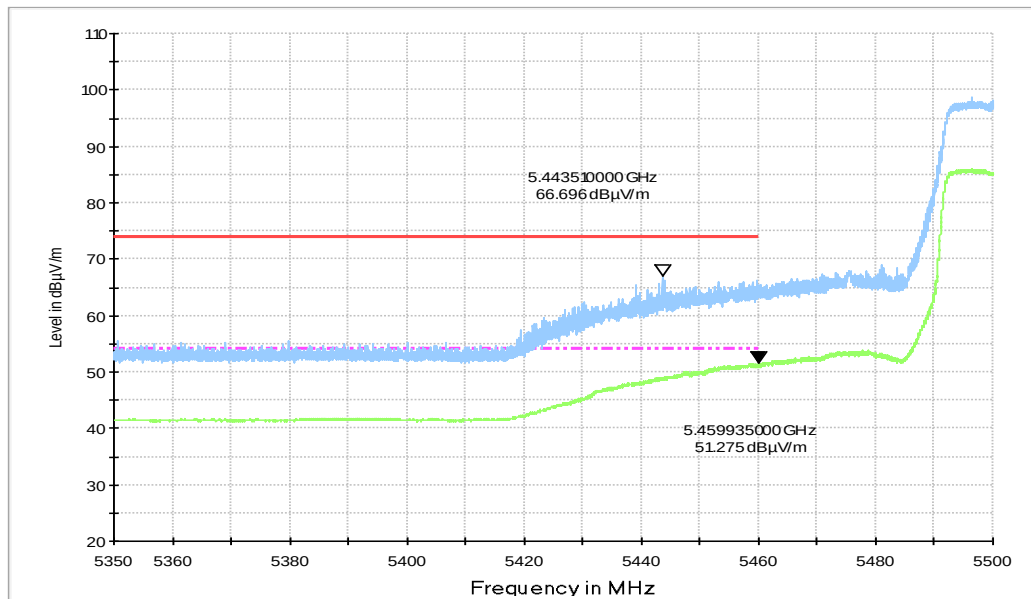


Fig.77 Band Edges (802.11ac-HT80, 5530MHz)

A.6. Transmitter Spurious Emission

Measurement Limit:

Standard	Limit
FCC 47 CFR Part 15.407	-27 dBm/MHz

The measurement is made according to KDB 789033

In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a) (see § 15.205(c)).

Limit in restricted band:

Frequency of emission (MHz)	Field strength(dBμV/m)	Measurement distance(m)
30-88	40.0	3
88-216	43.5	3
216-960	46.0	3
Above 960	54.0	3

Note: for frequency range below 960MHz, the limit in 15.209 is defined in 10m test distance. The limit used above is calculated from 10m to 3m

Measurement Results:

802.11a mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11a	36(5180MHz)	1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P
	40(5200MHz)	30 MHz ~1 GHz	---	P
		1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P
		18 GHz ~ 26.5 GHz	---	P
		26.5 GHz ~ 40 GHz	---	P
	48(5240MHz)	1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P
	52(5260MHz)	1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P
	56(5280MHz)	30 MHz ~1 GHz	---	P
		1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P
		18 GHz ~ 26.5 GHz	---	P
		26.5 GHz ~ 40 GHz	---	P
	64(5320MHz)	1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P
	100(5500MHz)	1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P
	120(5600MHz)	30 MHz ~1 GHz	---	P
		1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P
		18 GHz ~ 26.5 GHz	---	P
		26.5 GHz ~ 40 GHz	---	P
	140(5700MHz)	1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P
	144(5720MHz)	1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P

802.11n-HT20 mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11n -HT20	36(5180MHz)	1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P
	40(5200MHz)	30 MHz ~1 GHz	---	P
		1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P
		18 GHz ~ 26.5 GHz	---	P
		26.5 GHz ~ 40 GHz	---	P
	48(5240MHz)	1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P
	52(5260MHz)	1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P
	56(5280MHz)	30 MHz ~1 GHz	---	P
		1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P
		18 GHz ~ 26.5 GHz	---	P
		26.5 GHz ~ 40 GHz	---	P
	64(5320MHz)	1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P
	100(5500MHz)	1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P
	120(5600MHz)	30 MHz ~1 GHz	---	P
		1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P
		18 GHz ~ 26.5 GHz	---	P
		26.5 GHz ~ 40 GHz	---	P
	140(5700MHz)	1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P
	144(5720MHz)	1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P

802.11n-HT40 mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11n HT40	38(5190MHz)	30 MHz ~1 GHz	---	P
		1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P
		18 GHz ~ 26.5 GHz	---	P
		26.5 GHz ~ 40 GHz	---	P
	46(5230MHz)	1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P
	54(5270MHz)	30 MHz ~1 GHz	---	P
		1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P
		18 GHz ~ 26.5 GHz	---	P
		26.5 GHz ~ 40 GHz	---	P
	62(5310MHz)	30 MHz ~1 GHz	---	P
		1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P
		18 GHz ~ 26.5 GHz	---	P
		26.5 GHz ~ 40 GHz	---	P
	102(5510MHz)	30 MHz ~1 GHz	---	P
		1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P
		18 GHz ~ 26.5 GHz	---	P
		26.5 GHz ~ 40 GHz	---	P
	118(5590MHz)	1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P
	134(5670MHz)	30 MHz ~1 GHz	---	P
		1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P
		18 GHz ~ 26.5 GHz	---	P
		26.5 GHz ~ 40 GHz	---	P
	142(5710MHz)	1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P

802.11ac-HT20 mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11ac -HT20	36(5180MHz)	1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P
	40(5200MHz)	30 MHz ~1 GHz	---	P
		1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P
		18 GHz ~ 26.5 GHz	---	P
		26.5 GHz ~ 40 GHz	---	P
	48(5240MHz)	1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P
	52(5260MHz)	1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P
	56(5280MHz)	30 MHz ~1 GHz	---	P
		1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P
		18 GHz ~ 26.5 GHz	---	P
		26.5 GHz ~ 40 GHz	---	P
	64(5320MHz)	1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P
	100(5500MHz)	1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P
	120(5600MHz)	30 MHz ~1 GHz	---	P
		1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P
		18 GHz ~ 26.5 GHz	---	P
		26.5 GHz ~ 40 GHz	---	P
	140(5700MHz)	1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P
	144(5720MHz)	1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P

802.11ac-HT40 mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11ac HT40	38(5190MHz)	30 MHz ~1 GHz	---	P
		1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P
		18 GHz ~ 26.5 GHz	---	P
		26.5 GHz ~ 40 GHz	---	P
	46(5230MHz)	1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P
	54(5270MHz)	30 MHz ~1 GHz	---	P
		1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P
		18 GHz ~ 26.5 GHz	---	P
		26.5 GHz ~ 40 GHz	---	P
	62(5310MHz)	30 MHz ~1 GHz	---	P
		1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P
		18 GHz ~ 26.5 GHz	---	P
		26.5 GHz ~ 40 GHz	---	P
	102(5510MHz)	30 MHz ~1 GHz	---	P
		1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P
		18 GHz ~ 26.5 GHz	---	P
		26.5 GHz ~ 40 GHz	---	P
	118(5590MHz)	1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P
	134(5670MHz)	30 MHz ~1 GHz	---	P
		1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P
		18 GHz ~ 26.5 GHz	---	P
		26.5 GHz ~ 40 GHz	---	P
	142(5710MHz)	1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P

802.11ac-HT80 mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11ac -HT80	42(5210MHz)	1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P
	58(5290MHz)	30 MHz ~1 GHz	---	P
		1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P
		18 GHz ~ 26.5 GHz	---	P
		26.5 GHz ~ 40 GHz	---	P
	106(5530MHz)	1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P
	138(5690MHz)	1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P

Conclusion: PASS

Note:

A "reference path loss" is established and the A_{Rpl} is the attenuation of "reference path loss", and including the gain of receive antenna, the gain of the preamplifier, the cable loss.

P_{Mea} is the field strength recorded from the instrument.

The measurement results are obtained as described below:

Result= $P_{Mea}+A_{Rpl}= P_{Mea}+Cable\ Loss+Antenna\ Factor$

AVERAGE Results:
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)
5149.600	49.7	-23.3	34.3	38.68	54.0	4.3	H
5147.800	50.1	-23.3	34.3	39.05	54.0	3.9	H
10360.000	38.4	-29.7	37.5	30.62	54.0	15.6	H
10675.100	31.8	-29.5	37.7	23.63	54.0	22.2	H
15422.700	35.9	-24.5	40.1	20.25	54.0	18.1	H
17707.400	38.6	-22.2	41.2	19.51	54.0	15.4	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)
5148.500	44.9	-23.3	34.3	33.80	54.0	9.2	H
5358.600	40.5	-22.3	34.5	28.25	54.0	13.6	H
10400.000	38.3	-29.3	37.5	30.11	54.0	15.7	H
11758.600	33.7	-29.5	38.7	24.44	54.0	20.3	H
14489.500	34.6	-25.1	39.6	20.06	54.0	19.4	H
17920.500	38.9	-22.7	41.3	20.31	54.0	15.1	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)
5364.600	40.4	-22.3	34.5	28.21	54.0	13.6	H
5447.500	40.3	-22.7	34.6	28.45	54.0	13.7	H
10480.000	38.2	-29.6	37.6	30.17	54.0	15.8	H
12435.600	33.9	-28.3	39.0	23.17	54.0	20.1	H
15468.000	35.8	-24.5	40.2	20.09	54.0	18.2	H
17715.600	38.7	-22.2	41.2	19.69	54.0	15.3	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)
5472.500	40.5	-22.7	34.6	28.57	54.0	13.5	H
5363.500	40.9	-22.3	34.5	28.72	54.0	13.1	H
10520.000	37.1	-29.6	37.6	29.09	54.0	16.9	H
11754.200	33.7	-29.5	38.7	24.45	54.0	20.3	H
14494.300	34.6	-25.1	39.6	20.07	54.0	19.4	H
17913.100	38.9	-22.6	41.3	20.29	54.0	15.1	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)
5344.600	41.1	-22.3	34.5	28.89	54.0	12.9	H
5400.500	40.7	-22.3	34.5	28.48	54.0	13.3	H
10560.000	37.0	-29.4	37.6	28.83	54.0	17.0	H
12430.700	33.9	-28.2	39.0	23.15	54.0	20.1	H
15467.800	35.8	-24.5	40.2	20.08	54.0	18.2	H
17712.900	38.6	-22.2	41.2	19.57	54.0	15.4	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)
5350.000	48.7	-22.3	34.5	36.54	54.0	5.3	H
5351.200	48.3	-22.3	34.5	36.07	54.0	5.7	H
10640.000	37.0	-29.3	37.7	28.62	54.0	17.0	H
14484.400	34.7	-25.1	39.6	20.16	54.0	19.3	H
15955.100	36.3	-23.8	40.7	19.40	54.0	17.7	H
17825.100	38.4	-22.5	41.3	19.62	54.0	15.6	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)
5452.500	42.9	-22.7	34.6	31.02	54.0	11.1	H
5460.800	43.2	-22.7	34.6	31.34	54.0	10.8	H
10999.600	34.8	-29.9	37.9	26.73	54.0	19.2	H
16153.100	36.8	-23.3	41.0	19.10	54.0	17.2	H
17784.400	38.4	-22.4	41.3	19.53	54.0	15.6	H
17954.900	38.4	-22.7	41.3	19.83	54.0	15.6	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)
5354.700	40.9	-22.3	34.5	28.65	54.0	13.2	H
5369.800	40.7	-22.3	34.5	28.51	54.0	13.3	H
11199.800	35.5	-30.4	38.1	27.80	54.0	18.5	H
16124.500	36.8	-23.3	41.0	19.18	54.0	17.2	H
17784.400	38.5	-22.4	41.3	19.59	54.0	15.5	H
17948.300	38.4	-22.7	41.3	19.86	54.0	15.6	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)
5354.200	40.9	-22.3	34.5	28.69	54.0	13.1	H
5377.900	40.5	-22.3	34.5	28.30	54.0	13.5	H
11400.000	34.9	-29.7	38.4	26.21	54.0	19.1	H
15813.200	36.2	-24.1	40.6	19.72	54.0	17.8	H
17784.400	38.4	-22.4	41.3	19.56	54.0	15.6	H
17899.900	38.8	-22.6	41.3	20.13	54.0	15.2	H

Channel 144

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)
5364.500	40.8	-22.3	34.5	28.61	54.0	13.2	H
5369.800	40.7	-22.3	34.5	28.48	54.0	13.3	H
11434.100	33.4	-29.5	38.4	24.45	54.0	20.6	H
12343.800	34.2	-27.8	39.0	23.08	54.0	19.8	H
15618.500	36.2	-24.5	40.3	20.40	54.0	17.8	H
17912.000	38.9	-22.6	41.3	20.27	54.0	15.1	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)
5148.500	45.1	-23.3	34.3	34.03	54.0	8.9	H
5147.850	44.4	-23.3	34.3	33.33	54.0	9.6	H
10360.000	38.1	-29.7	37.5	30.29	54.0	15.9	H
14484.600	34.7	-25.1	39.6	20.18	54.0	19.3	H
15950.600	36.4	-23.8	40.7	19.45	54.0	17.7	H
17834.500	38.4	-22.5	41.3	19.66	54.0	15.6	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)
5145.800	44.5	-23.3	34.3	33.50	54.0	9.5	H
5438.500	40.4	-22.6	34.6	28.43	54.0	13.6	H
10400.000	38.0	-29.3	37.5	29.79	54.0	16.0	H
11898.500	33.6	-29.2	38.8	23.98	54.0	20.4	H
15664.500	36.1	-24.5	40.4	20.22	54.0	17.9	H
17785.600	38.5	-22.4	41.3	19.66	54.0	15.5	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)
5380.600	40.5	-22.3	34.5	28.32	54.0	13.5	H
5400.200	40.3	-22.3	34.5	28.07	54.0	13.7	H
10480.000	37.9	-29.6	37.6	29.88	54.0	16.1	H
16245.500	36.9	-23.2	41.1	19.03	54.0	17.1	H
17830.500	38.6	-22.5	41.3	19.83	54.0	15.4	H
17800.600	38.5	-22.4	41.3	19.67	54.0	15.5	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)
5361.400	40.9	-22.3	34.5	28.68	54.0	13.1	H
5451.600	40.5	-22.7	34.6	28.63	54.0	13.5	H
10520.000	36.5	-29.6	37.6	28.49	54.0	17.6	H
16133.300	36.9	-23.3	41.0	19.29	54.0	17.1	H
17838.300	38.6	-22.5	41.3	19.79	54.0	15.4	H
17759.200	38.5	-22.3	41.3	19.54	54.0	15.5	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)
5427.700	40.7	-22.5	34.5	28.65	54.0	13.3	H
5368.500	40.9	-22.3	34.5	28.68	54.0	13.1	H
10560.000	36.3	-29.4	37.6	28.15	54.0	17.7	H
13372.500	34.3	-27.6	39.0	22.92	54.0	19.7	H
15776.900	35.8	-24.2	40.5	19.45	54.0	18.2	H
17898.700	38.7	-22.6	41.3	20.00	54.0	15.3	H

Channel 64

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
5352.500	47.7	-22.3	34.5	35.55	54.0	6.3	H
5350.500	48.0	-22.3	34.5	35.79	54.0	6.0	H
10640.000	36.2	-29.3	37.7	27.80	54.0	17.8	H
16073.800	36.7	-23.5	40.9	19.30	54.0	17.3	H
17971.400	38.4	-22.8	41.3	19.90	54.0	15.6	H
17951.600	38.5	-22.7	41.3	19.94	54.0	15.5	H

Channel 100

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
5450.800	42.9	-22.7	34.6	31.04	54.0	11.1	H
5419.000	43.2	-22.5	34.5	31.17	54.0	10.8	H
10999.600	35.2	-29.9	37.9	27.13	54.0	18.8	H
15713.100	36.0	-24.4	40.5	19.91	54.0	18.0	H
17758.000	38.5	-22.3	41.3	19.59	54.0	15.5	H
17919.700	38.6	-22.7	41.3	20.01	54.0	15.4	H

Channel 120

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
5375.800	40.7	-22.3	34.5	28.52	54.0	13.3	H
5442.500	40.6	-22.6	34.6	28.72	54.0	13.4	H
11199.800	34.9	-30.4	38.1	27.21	54.0	19.1	H
15816.500	36.4	-24.1	40.6	19.92	54.0	17.6	H
17761.300	38.6	-22.3	41.3	19.70	54.0	15.4	H
17919.700	38.6	-22.7	41.3	19.97	54.0	15.4	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)
5440.200	40.5	-22.6	34.6	28.53	54.0	13.5	H
5445.600	40.7	-22.7	34.6	28.77	54.0	13.3	H
11400.000	34.2	-29.7	38.4	25.50	54.0	19.8	H
15812.100	36.2	-24.1	40.6	19.77	54.0	17.8	H
17739.300	38.5	-22.3	41.2	19.55	54.0	15.5	H
17907.600	38.7	-22.6	41.3	20.04	54.0	15.3	H

Channel 144

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)
5358.400	40.9	-22.3	34.5	28.69	54.0	13.1	H
5441.600	40.5	-22.6	34.6	28.57	54.0	13.5	H
11439.600	35.4	-29.5	38.4	26.44	54.0	18.6	H
11992.900	33.9	-29.0	38.9	24.01	54.0	20.1	H
16142.100	37.2	-23.3	41.0	19.52	54.0	16.8	H
17912.000	39.0	-22.6	41.3	20.33	54.0	15.0	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)
5149.600	50.4	-23.3	34.3	39.36	54.0	3.6	H
5149.900	50.6	-23.3	34.3	39.59	54.0	3.4	H
10380.000	36.6	-29.5	37.5	28.55	54.0	17.4	H
11765.200	33.6	-29.5	38.7	24.31	54.0	20.4	H
15566.800	36.1	-24.5	40.3	20.35	54.0	17.9	H
17778.900	38.4	-22.4	41.3	19.46	54.0	15.6	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)
5148.500	41.4	-23.3	34.3	30.30	54.0	12.7	H
5358.600	40.6	-22.3	34.5	28.35	54.0	13.5	H
10460.000	36.5	-29.5	37.6	28.37	54.0	17.6	H
12410.900	33.9	-28.1	39.0	23.04	54.0	20.1	H
15757.200	36.1	-24.3	40.5	19.84	54.0	17.9	H
15965.000	36.4	-23.8	40.8	19.48	54.0	17.6	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)
5352.800	41.0	-22.3	34.5	28.79	54.0	13.0	H
5400.200	40.7	-22.3	34.5	28.46	54.0	13.3	H
10539.800	33.7	-29.5	37.6	25.62	54.0	20.3	H
15809.900	36.2	-24.1	40.6	19.74	54.0	17.8	H
17784.400	38.5	-22.4	41.3	19.58	54.0	15.5	H
17902.100	38.8	-22.6	41.3	20.14	54.0	15.2	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)
5350.250	48.3	-22.3	34.5	36.08	54.0	5.7	H
5350.980	47.3	-22.3	34.5	35.14	54.0	6.7	H
10620.100	33.0	-29.2	37.7	24.55	54.0	21.0	H
15929.800	36.3	-23.9	40.7	19.44	54.0	17.7	H
17784.400	38.5	-22.4	41.3	19.62	54.0	15.5	H
17903.200	38.8	-22.6	41.3	20.14	54.0	15.2	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)
5364.800	42.5	-22.3	34.5	30.24	54.0	11.6	H
5438.600	42.4	-22.6	34.6	30.42	54.0	11.6	H
11019.400	35.4	-29.8	37.9	27.34	54.0	18.6	H
16050.800	36.6	-23.5	40.9	19.28	54.0	17.4	H
17775.600	38.4	-22.4	41.3	19.49	54.0	15.6	H
17910.900	38.6	-22.6	41.3	19.97	54.0	15.4	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)
5375.200	40.5	-22.3	34.5	28.32	54.0	13.5	H
5440.700	40.6	-22.6	34.6	28.72	54.0	13.4	H
11180.000	35.1	-30.4	38.1	27.42	54.0	18.9	H
16165.200	37.0	-23.3	41.0	19.26	54.0	17.0	H
17758.000	38.5	-22.3	41.3	19.54	54.0	15.5	H
17891.100	38.6	-22.6	41.3	19.92	54.0	15.4	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)
5387.600	40.7	-22.3	34.5	28.45	54.0	13.3	H
5410.300	40.6	-22.4	34.5	28.49	54.0	13.4	H
11339.500	34.9	-30.0	38.3	26.58	54.0	19.1	H
16088.200	36.8	-23.4	40.9	19.31	54.0	17.2	H
17784.400	38.3	-22.4	41.3	19.46	54.0	15.7	H
17910.900	38.6	-22.6	41.3	19.95	54.0	15.4	H

Channel 142

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)
5388.600	40.6	-22.3	34.5	28.32	54.0	13.5	H
5431.400	40.6	-22.6	34.5	28.59	54.0	13.4	H
11419.800	35.2	-29.6	38.4	26.39	54.0	18.8	H
15867.100	36.4	-24.0	40.6	19.78	54.0	17.6	H
17835.000	38.6	-22.5	41.3	19.83	54.0	15.4	H
17939.500	38.7	-22.7	41.3	20.09	54.0	15.3	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)
5148.900	45.0	-23.3	34.3	33.95	54.0	9.0	H
5149.800	45.2	-23.3	34.3	34.17	54.0	8.8	H
10360.000	37.7	-29.7	37.5	29.86	54.0	16.3	H
13385.600	34.4	-27.6	39.0	23.06	54.0	19.6	H
15782.450	35.8	-24.2	40.5	19.49	54.0	18.2	H
17900.800	38.7	-22.6	41.3	20.01	54.0	15.3	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)
5147.600	44.0	-23.3	34.3	32.98	54.0	10.0	H
5412.500	40.4	-22.4	34.5	28.26	54.0	13.6	H
10380.000	37.5	-29.5	37.5	29.53	54.0	16.5	H
16104.800	36.8	-23.4	40.9	19.30	54.0	17.2	H
17980.600	38.5	-22.8	41.3	20.01	54.0	15.5	H
17960.500	38.6	-22.7	41.3	20.09	54.0	15.4	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)
5140.500	44.2	-23.3	34.3	33.18	54.0	9.8	H
5420.600	40.4	-22.5	34.5	28.29	54.0	13.7	H
10480.000	37.3	-29.6	37.6	29.27	54.0	16.7	H
11187.700	32.5	-30.4	38.1	24.76	54.0	21.5	H
15407.300	35.9	-24.5	40.1	20.18	54.0	18.1	H
17721.700	38.5	-22.2	41.2	19.48	54.0	15.5	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)
5390.800	40.8	-22.3	34.5	28.62	54.0	13.2	H
5421.500	40.7	-22.5	34.5	28.66	54.0	13.3	H
10520.000	36.7	-29.6	37.6	28.78	54.0	17.3	H
11426.400	33.0	-29.6	38.4	24.16	54.0	21.0	H
16048.600	36.8	-23.6	40.9	19.53	54.0	17.2	H
17912.500	38.7	-22.6	41.3	20.07	54.0	15.3	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)
5355.600	40.9	-22.3	34.5	28.65	54.0	13.2	H
5420.400	40.7	-22.5	34.5	28.68	54.0	13.3	H
10560.000	36.6	-29.4	37.6	28.37	54.0	17.4	H
11952.200	33.5	-29.2	38.9	23.81	54.0	20.5	H
15606.400	36.0	-24.5	40.3	20.24	54.0	18.0	H
17780.000	38.4	-22.4	41.3	19.55	54.0	15.6	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)
5350.500	48.2	-22.3	34.5	36.02	54.0	5.8	H
5357.600	47.7	-22.3	34.5	35.50	54.0	6.3	H
10640.000	36.5	-29.3	37.7	28.15	54.0	17.5	H
11933.500	33.7	-29.2	38.8	24.00	54.0	20.3	H
16150.800	37.1	-23.3	41.0	19.44	54.0	16.9	H
17943.500	38.4	-22.7	41.3	19.86	54.0	15.6	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)
5453.200	42.9	-22.7	34.6	31.07	54.0	11.1	H
5457.400	43.1	-22.7	34.6	31.18	54.0	10.9	H
10999.600	35.1	-29.9	37.9	27.07	54.0	18.9	H
16026.600	36.8	-23.6	40.8	19.59	54.0	17.2	H
17749.200	38.6	-22.3	41.3	19.67	54.0	15.4	H
17869.100	38.4	-22.6	41.3	19.70	54.0	15.6	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)
5387.600	40.8	-22.3	34.5	28.61	54.0	13.2	H
5439.700	40.7	-22.6	34.6	28.72	54.0	13.4	H
11199.800	35.6	-30.4	38.1	27.90	54.0	18.4	H
16161.900	37.0	-23.3	41.0	19.28	54.0	17.0	H
17776.700	38.6	-22.4	41.3	19.70	54.0	15.4	H
17937.300	38.4	-22.7	41.3	19.83	54.0	15.6	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)
5354.800	40.9	-22.3	34.5	28.75	54.0	13.1	H
5405.500	40.8	-22.4	34.5	28.61	54.0	13.2	H
11400.000	34.1	-29.7	38.4	25.41	54.0	19.9	H
15976.000	36.6	-23.8	40.8	19.58	54.0	17.4	H
17785.500	38.4	-22.4	41.3	19.55	54.0	15.6	H
17898.800	38.6	-22.6	41.3	19.95	54.0	15.4	H

Channel 144

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)
5394.500	40.8	-22.3	34.5	28.53	54.0	13.2	H
5424.600	40.5	-22.5	34.5	28.46	54.0	13.5	H
11439.600	34.9	-29.5	38.4	25.90	54.0	19.1	H
11924.700	33.8	-29.2	38.8	24.12	54.0	20.2	H
16143.200	37.2	-23.3	41.0	19.53	54.0	16.8	H
17915.300	38.9	-22.6	41.3	20.31	54.0	15.1	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)
5149.600	49.3	-23.3	34.3	38.22	54.0	4.7	H
5149.900	49.4	-23.3	34.3	38.33	54.0	4.6	H
10380.000	36.4	-29.5	37.5	28.42	54.0	17.6	H
12131.500	33.1	-28.4	38.9	22.57	54.0	20.9	H
15835.200	36.4	-24.1	40.6	19.91	54.0	17.6	H
17937.700	38.4	-22.7	41.3	19.85	54.0	15.6	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)
5149.600	41.4	-23.3	34.3	30.32	54.0	12.6	H
5353.000	40.6	-22.3	34.5	28.41	54.0	13.4	H
10460.000	36.3	-29.5	37.6	28.17	54.0	17.8	H
10678.500	32.2	-29.5	37.7	24.02	54.0	21.8	H
14506.400	34.7	-25.1	39.6	20.14	54.0	19.3	H
17700.000	38.6	-22.2	41.2	19.55	54.0	15.4	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)
5353.500	40.9	-22.3	34.5	28.67	54.0	13.1	H
5364.500	40.7	-22.3	34.5	28.47	54.0	13.3	H
10539.800	33.0	-29.5	37.6	24.96	54.0	21.0	H
15809.900	36.1	-24.1	40.6	19.67	54.0	17.9	H
17775.600	38.5	-22.4	41.3	19.58	54.0	15.5	H
17903.320	38.8	-22.6	41.3	20.15	54.0	15.2	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)
5350.600	50.0	-22.3	34.5	37.82	54.0	4.0	H
5351.800	49.6	-22.3	34.5	37.43	54.0	4.4	H
10620.100	32.9	-29.2	37.7	24.45	54.0	21.1	H
15929.800	36.1	-23.9	40.7	19.30	54.0	17.9	H
17775.600	38.5	-22.4	41.3	19.55	54.0	15.5	H
17907.600	38.9	-22.6	41.3	20.21	54.0	15.1	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)
5450.000	42.0	-22.7	34.6	30.14	54.0	12.0	H
5455.800	41.9	-22.7	34.6	30.02	54.0	12.1	H
11020.500	35.4	-29.8	37.9	27.29	54.0	18.6	H
16530.100	36.9	-23.2	41.4	18.66	54.0	17.1	H
17776.700	38.4	-22.4	41.3	19.52	54.0	15.6	H
17903.200	38.7	-22.6	41.3	20.03	54.0	15.3	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)
5456.800	40.9	-22.7	34.6	29.02	54.0	13.1	H
5458.900	40.9	-22.7	34.6	29.07	54.0	13.1	H
11180.000	35.1	-30.4	38.1	27.45	54.0	18.9	H
16083.800	36.8	-23.4	40.9	19.33	54.0	17.2	H
17758.000	38.4	-22.3	41.3	19.45	54.0	15.6	H
17894.400	38.6	-22.6	41.3	19.95	54.0	15.4	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)
5455.750	40.9	-22.7	34.6	29.00	54.0	13.1	H
5428.600	40.8	-22.5	34.5	28.78	54.0	13.2	H
11339.500	34.9	-30.0	38.3	26.65	54.0	19.1	H
16062.900	36.8	-23.5	40.9	19.42	54.0	17.2	H
17777.800	38.4	-22.4	41.3	19.50	54.0	15.6	H
17954.900	38.4	-22.7	41.3	19.86	54.0	15.6	H

Channel 142

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)
5458.200	40.9	-22.7	34.6	29.07	54.0	13.1	H
5446.700	40.7	-22.7	34.6	28.80	54.0	13.3	H
11419.800	35.4	-29.6	38.4	26.61	54.0	18.6	H
15714.200	36.1	-24.4	40.5	19.98	54.0	17.9	H
17775.600	38.5	-22.4	41.3	19.55	54.0	15.6	H
17920.800	38.9	-22.7	41.3	20.30	54.0	15.1	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)
5147.778	50.6	-22.7	34.6	38.69	54.0	3.4	H
5149.222	51.1	-22.7	34.6	39.28	54.0	2.9	H
10419.900	30.0	-29.3	37.5	21.81	54.0	24.0	H
12094.100	32.0	-28.5	38.9	21.58	54.0	22.0	H
15629.500	38.4	-24.5	40.4	22.58	54.0	15.6	H
17970.300	43.7	-22.8	41.3	25.21	54.0	10.3	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)
5350.000	49.1	-22.3	34.5	36.94	54.0	4.9	H
5349.988	49.2	-22.3	34.5	37.02	54.0	4.8	H
10580.500	29.7	-29.3	37.6	21.35	54.0	24.3	H
12698.000	34.0	-27.9	39.1	22.79	54.0	20.0	H
15870.400	39.6	-24.0	40.6	22.99	54.0	14.4	H
17928.500	43.8	-22.7	41.3	25.18	54.0	10.2	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)
5457.600	50.2	-22.7	34.6	38.28	54.0	3.9	H
5459.600	50.8	-22.7	34.6	38.92	54.0	3.2	H
11060.100	31.1	-29.9	38.0	23.01	54.0	22.9	H
12649.600	33.6	-28.0	39.1	22.55	54.0	20.4	H
16186.100	40.7	-23.3	41.0	22.88	54.0	13.3	H
17895.500	43.7	-22.6	41.3	25.03	54.0	10.3	H

Channel 138

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)
5443.900	40.8	-22.7	34.6	28.89	54.0	13.2	H
5390.800	40.8	-22.3	34.5	28.62	54.0	13.2	H
11380.200	31.5	-29.8	38.4	22.96	54.0	22.5	H
17070.500	42.1	-23.0	41.6	23.55	54.0	11.9	H
17633.700	42.9	-22.0	41.2	23.71	54.0	11.1	H
17885.600	43.6	-22.6	41.3	24.96	54.0	10.4	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)
5148.190	65.7	-23.3	34.3	54.64	74.0	8.3	H
5149.925	65.6	-23.3	34.3	54.57	74.0	8.4	H
10360.000	55.0	-29.7	37.5	47.14	68.3	13.3	H
16821.900	56.6	-23.0	41.6	38.03	68.3	11.7	H
17073.800	56.7	-23.0	41.6	38.07	68.3	11.6	H
17538.500	56.9	-22.6	41.2	38.35	68.3	11.4	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)
5170.400	56.0	-23.2	34.3	44.84	68.3	12.3	H
5291.800	54.4	-22.7	34.4	42.62	68.3	13.9	H
10400.000	54.2	-29.3	37.5	46.00	68.3	14.1	H
16264.750	55.6	-23.2	41.1	37.68	68.3	12.7	V
16926.400	57.8	-23.0	41.7	39.12	68.3	10.5	H
17608.400	56.9	-22.2	41.2	37.84	68.3	11.4	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)
5206.500	55.1	-23.3	34.4	43.95	74.0	18.9	H
5269.800	56.9	-23.0	34.4	45.49	74.0	17.1	H
10480.000	53.5	-29.6	37.6	45.51	68.3	14.8	V
16951.150	56.9	-23.0	41.7	38.27	68.3	11.4	H
17377.850	56.6	-23.0	41.3	38.22	68.3	11.7	H
17696.400	57.1	-22.2	41.2	38.03	68.3	11.2	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)
5199.000	56.1	-23.2	34.4	44.96	74.0	17.9	H
5325.800	55.8	-22.4	34.5	43.75	74.0	18.2	V
10519.500	50.5	-29.7	37.6	42.57	68.3	17.8	V
16587.600	56.2	-23.3	41.5	38.05	68.3	12.1	V
16764.700	56.5	-23.0	41.6	37.95	68.3	11.8	V
17455.500	57.0	-23.2	41.2	38.90	68.3	11.3	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)
5231.400	55.8	-23.4	34.4	44.75	68.3	12.5	H
5533.400	55.5	-22.6	34.6	43.45	68.3	12.8	H
10560.000	50.4	-29.4	37.6	42.23	68.3	17.9	V
16526.400	56.6	-23.2	41.4	38.40	68.3	11.7	V
16856.500	57.0	-23.0	41.6	38.36	68.3	11.3	V
17190.400	56.5	-22.9	41.5	37.93	68.3	11.8	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)
5351.670	61.9	-22.3	34.5	49.72	74.0	12.1	H
5350.502	62.2	-22.3	34.5	50.05	74.0	11.8	H
10640.000	51.7	-29.3	37.7	43.30	68.3	16.6	H
16499.600	56.3	-23.2	41.4	38.04	68.3	12.0	V
16802.100	56.6	-23.0	41.6	38.00	68.3	11.7	V
17025.400	56.9	-23.0	41.7	38.29	68.3	11.4	V

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)
5454.980	57.8	-22.7	34.6	45.91	74.0	16.2	H
5457.250	57.1	-22.7	34.6	45.25	74.0	16.9	H
11000.150	49.4	-29.9	37.9	41.36	68.3	18.9	V
16500.150	54.3	-23.2	41.4	36.06	68.3	14.0	V
17749.750	56.9	-22.3	41.3	37.90	68.3	11.4	H
17919.150	57.1	-22.7	41.3	38.50	68.3	11.2	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)
5529.600	54.9	-22.6	34.6	42.87	68.3	13.4	H
6027.400	56.3	-21.2	35.2	42.24	68.3	12.0	V
11199.800	48.8	-30.4	38.1	41.04	68.3	19.5	H
16799.900	53.9	-23.0	41.6	35.33	68.3	14.4	V
17757.450	57.4	-22.3	41.3	38.48	68.3	10.9	V
17869.100	57.6	-22.6	41.3	38.84	68.3	10.7	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)
5730.025	64.4	-23.0	34.9	52.52	68.3	3.9	H
5730.338	65.1	-23.0	34.9	53.17	68.3	3.2	H
11400.000	47.7	-29.7	38.4	39.02	68.3	20.6	V
17100.200	54.8	-23.0	41.6	36.23	68.3	13.5	H
17487.950	57.9	-23.0	41.2	39.67	68.3	10.4	V
17803.650	57.6	-22.4	41.3	38.71	68.3	10.7	V

Channel 144

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)
5332.300	54.6	-22.4	34.5	42.55	68.3	13.7	H
5846.000	55.3	-22.4	35.0	42.74	68.3	13.0	H
10411.650	48.0	-29.3	37.5	39.71	68.3	20.3	V
12896.550	51.1	-28.5	39.2	40.40	68.3	17.2	H
14252.850	52.5	-25.4	39.3	38.55	68.3	15.8	V
16980.300	57.6	-23.0	41.7	38.93	68.3	10.7	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)
5149.433	59.1	-23.3	34.3	48.07	74.0	14.9	H
5149.975	59.4	-23.3	34.3	48.39	74.0	14.6	H
10358.900	52.4	-29.7	37.5	44.57	68.3	15.9	V
16402.250	56.0	-23.1	41.3	37.77	68.3	12.3	H
17148.600	56.9	-23.0	41.5	38.39	68.3	11.4	V
17718.950	58.1	-22.2	41.2	39.03	68.3	10.2	V

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)
5164.200	57.6	-23.2	34.3	46.48	68.3	10.7	H
5233.000	58.7	-23.4	34.4	47.68	68.3	9.6	H
10399.550	52.9	-29.3	37.5	44.66	68.3	15.4	V
16917.050	56.7	-23.0	41.7	38.05	68.3	11.6	V
16348.900	55.9	-23.1	41.2	37.80	68.3	12.4	H
17522.050	56.6	-22.8	41.2	38.16	68.3	11.7	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)
5190.750	54.3	-23.2	34.4	43.17	74.0	19.7	H
5274.800	56.8	-22.9	34.4	45.33	74.0	17.2	H
10479.800	51.0	-29.6	37.6	42.95	68.3	17.3	V
16993.500	57.0	-23.0	41.7	38.30	68.3	11.3	H
17040.250	57.1	-23.0	41.7	38.46	68.3	11.2	V
17600.700	58.3	-22.2	41.2	39.33	68.3	10.0	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)
5195.800	55.2	-23.2	34.4	44.04	74.0	18.8	V
5324.600	55.8	-22.4	34.5	43.75	74.0	18.2	H
10520.000	49.7	-29.6	37.6	41.76	68.3	18.6	V
16550.200	56.7	-23.2	41.4	38.51	68.3	11.6	V
17061.800	57.2	-23.0	41.6	38.59	68.3	11.1	H
17226.500	56.6	-22.9	41.5	38.03	68.3	11.7	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)
5223.400	56.3	-23.3	34.4	45.23	68.3	12.0	H
5599.000	55.7	-22.8	34.7	43.75	68.3	12.6	H
10560.000	49.7	-29.4	37.6	41.47	68.3	18.6	V
16858.700	56.9	-23.0	41.6	38.32	68.3	11.4	V
16616.200	56.4	-23.3	41.5	38.22	68.3	11.9	H
16800.450	57.3	-23.0	41.6	38.73	68.3	11.0	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)
5350.879	58.3	-22.3	34.5	46.06	74.0	15.7	H
5350.501	58.5	-22.3	34.5	46.33	74.0	15.5	H
10640.000	50.3	-29.3	37.7	41.90	68.3	18.0	V
1693.080	56.7	-35.4	29.3	62.72	68.3	11.6	H
17234.600	56.5	-22.8	41.5	37.92	68.3	11.8	V
17689.250	57.4	-22.2	41.2	38.34	68.3	10.9	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)
5453.860	57.3	-22.7	34.6	45.45	74.0	16.7	H
5459.305	57.3	-22.7	34.6	45.46	74.0	16.7	H
11000.150	50.6	-29.9	37.9	42.54	68.3	17.7	V
16500.150	54.2	-23.2	41.4	35.95	68.3	14.1	H
17509.950	57.9	-22.8	41.2	39.53	68.3	10.4	V
17815.200	57.7	-22.4	41.3	38.88	68.3	10.6	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)
5330.500	54.8	-22.4	34.5	42.70	68.3	13.5	V
6818.800	57.5	-21.0	35.7	42.83	68.3	10.8	V
11199.800	47.5	-30.4	38.1	39.74	68.3	20.8	H
16799.900	53.9	-23.0	41.6	35.30	68.3	14.4	H
17512.150	56.9	-22.8	41.2	38.50	68.3	11.4	H
17777.250	57.3	-22.4	41.3	38.41	68.3	11.0	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)
5727.788	62.7	-23.0	34.9	50.85	68.3	5.6	H
5725.313	63.6	-23.0	34.9	51.69	68.3	4.7	V
11199.800	46.4	-30.4	38.1	38.68	68.3	21.9	H
17100.200	55.1	-23.0	41.6	36.52	68.3	13.2	H
17638.100	57.1	-22.0	41.2	37.92	68.3	11.2	H
17790.450	57.5	-22.4	41.3	38.66	68.3	10.8	H

Channel 144

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)
5235.700	54.7	-23.4	34.4	43.71	68.3	13.6	H
5848.600	56.0	-22.4	35.0	43.38	68.3	12.3	H
9730.750	47.3	-30.3	36.9	40.73	68.3	21.0	V
13051.100	51.3	-28.5	39.2	40.58	68.3	17.0	V
16852.700	56.2	-23.0	41.6	37.59	68.3	12.1	V
17134.300	57.1	-23.0	41.6	38.51	68.3	11.2	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)
5145.705	65.3	-23.3	34.3	54.30	74.0	8.7	H
5148.978	66.3	-23.3	34.3	55.25	74.0	7.7	H
10380.000	48.8	-29.5	37.5	40.76	68.3	19.5	V
16669.000	56.3	-23.2	41.5	38.06	68.3	12.0	H
17064.450	57.3	-23.0	41.6	38.75	68.3	11.0	H
17613.900	57.2	-22.1	41.2	38.16	68.3	11.1	V

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)
5167.200	55.9	-23.2	34.3	44.78	74.0	18.1	H
5282.600	56.3	-22.8	34.4	44.72	74.0	17.7	H
10460.000	47.7	-29.5	37.6	39.67	68.3	20.6	H
16394.550	56.0	-23.1	41.3	37.84	68.3	12.3	V
16993.500	56.7	-23.0	41.7	38.04	68.3	11.6	V
17415.350	57.3	-23.1	41.3	39.13	68.3	11.0	H

Channel 54

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
5180.800	54.6	-23.2	34.3	43.40	74.0	19.4	H
5508.200	55.2	-22.6	34.6	43.22	74.0	18.8	H
10539.800	45.8	-29.5	37.6	37.68	68.3	22.5	H
15809.900	51.7	-24.1	40.6	35.24	68.3	16.6	H
17706.300	56.9	-22.2	41.2	37.86	68.3	11.4	H
17976.350	58.0	-22.8	41.3	39.52	68.3	10.3	V

Channel 62

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
5351.609	63.9	-22.3	34.5	51.75	74.0	10.1	H
5350.124	64.6	-22.3	34.5	52.43	74.0	9.4	H
10620.100	46.8	-29.2	37.7	38.29	68.3	21.5	V
15929.800	52.9	-23.9	40.7	36.11	68.3	15.4	H
17429.650	57.5	-23.1	41.3	39.36	68.3	10.8	V
17819.600	57.3	-22.5	41.3	38.49	68.3	11.0	H

Channel 102

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
5459.665	64.3	-22.7	34.6	52.40	74.0	9.7	H
5459.515	64.0	-22.7	34.6	52.10	74.0	10.0	H
11019.950	48.9	-29.8	37.9	40.78	68.3	19.4	H
16529.850	54.5	-23.2	41.4	36.29	68.3	13.8	H
17073.800	57.4	-23.0	41.6	38.77	68.3	10.9	V
17686.500	57.7	-22.1	41.2	38.62	68.3	10.6	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)
5506.400	56.4	-22.6	34.6	44.44	68.3	11.9	H
5982.800	55.6	-21.7	35.2	42.07	68.3	12.7	H
11180.000	48.3	-30.4	38.1	40.68	68.3	20.0	V
16770.200	54.6	-23.0	41.6	36.03	68.3	13.7	V
17584.200	57.4	-22.3	41.2	38.52	68.3	10.9	H
17817.400	57.4	-22.4	41.3	38.55	68.3	10.9	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)
5725.788	63.8	-23.0	34.9	51.87	68.3	4.5	H
5727.150	63.5	-23.0	34.9	51.61	68.3	4.8	H
11340.050	48.3	-30.0	38.3	39.97	68.3	20.0	H
17010.000	54.1	-23.0	41.7	35.47	68.3	14.2	V
17561.650	56.9	-22.5	41.2	38.22	68.3	11.4	H
17830.600	57.3	-22.5	41.3	38.50	68.3	11.0	H

Channel 142

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)
5289.600	54.6	-22.7	34.4	42.87	68.3	13.7	H
5840.800	56.0	-22.5	35.0	43.46	68.3	12.3	H
10036.550	48.3	-30.1	37.2	41.23	68.3	20.0	H
12975.750	50.3	-28.4	39.2	39.59	68.3	18.0	V
16777.350	55.7	-23.0	41.6	37.15	68.3	12.6	V
17060.600	56.4	-23.0	41.6	37.80	68.3	11.9	V

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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)
5149.065	60.3	-23.3	34.3	49.23	74.0	13.7	H
5148.207	60.0	-23.3	34.3	48.92	74.0	14.0	H
10359.400	53.9	-29.7	37.5	46.14	68.3	14.4	H
16508.950	56.0	-23.2	41.4	37.77	68.3	12.3	V
17618.300	56.8	-22.1	41.2	37.74	68.3	11.5	V
17724.450	57.8	-22.2	41.2	38.80	68.3	10.5	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)
5090.800	53.9	-23.5	34.3	43.11	68.3	14.4	H
5337.800	54.5	-22.3	34.5	42.40	68.3	13.8	H
10397.800	52.0	-29.3	37.5	43.82	68.3	16.3	H
16537.000	55.8	-23.2	41.4	37.57	68.3	12.5	V
16994.050	56.4	-23.0	41.7	37.73	68.3	11.9	H
17612.250	56.8	-22.2	41.2	37.74	68.3	11.5	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)
5183.000	54.9	-23.2	34.4	43.71	74.0	19.1	H
5329.400	55.0	-22.4	34.5	42.89	74.0	19.0	H
10480.700	51.6	-29.6	37.6	43.63	68.3	16.7	H
16876.900	56.4	-23.0	41.6	37.81	68.3	11.9	V
17151.900	56.8	-23.0	41.5	38.28	68.3	11.5	H
17750.300	57.5	-22.3	41.3	38.52	68.3	10.8	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)
5201.400	55.2	-23.2	34.4	44.12	74.0	18.8	H
5328.000	56.1	-22.4	34.5	44.04	74.0	17.9	H
10520.000	49.9	-29.6	37.6	41.93	68.3	18.4	H
16850.600	56.9	-23.0	41.6	38.33	68.3	11.4	V
17027.500	56.5	-23.0	41.7	37.81	68.3	11.8	V
13456.800	56.3	-27.7	38.9	45.13	68.3	12.0	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)
5194.600	55.0	-23.2	34.4	43.87	68.3	13.3	V
5339.600	55.7	-22.3	34.5	43.51	68.3	12.6	H
10560.000	49.1	-29.4	37.6	40.94	68.3	19.2	V
16935.800	56.7	-23.0	41.7	38.07	68.3	11.6	H
17680.500	57.6	-22.1	41.2	38.52	68.3	10.7	H
17485.600	56.9	-23.0	41.2	38.67	68.3	11.4	V

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)
5352.392	59.4	-22.3	34.5	47.18	74.0	14.6	H
5354.363	59.0	-22.3	34.5	46.79	74.0	15.0	H
10640.000	50.2	-29.3	37.7	41.84	68.3	18.1	H
17108.450	57.3	-23.0	41.6	38.76	68.3	11.0	V
16633.250	56.1	-23.3	41.5	37.91	68.3	12.2	H
16942.500	56.1	-23.0	41.7	37.49	68.3	12.2	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)
5448.430	57.5	-22.7	34.6	45.63	74.0	16.5	H
5450.680	57.4	-22.7	34.6	45.52	74.0	16.6	H
11000.150	47.6	-29.9	37.9	39.56	68.3	20.7	H
16500.150	54.3	-23.2	41.4	36.04	68.3	14.0	V
17686.500	57.6	-22.1	41.2	38.48	68.3	10.7	V
17937.300	57.1	-22.7	41.3	38.52	68.3	11.2	V

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)
5285.000	54.4	-22.8	34.4	42.77	68.3	13.9	V
5846.500	55.3	-22.4	35.0	42.76	68.3	13.0	H
11199.800	48.3	-30.4	38.1	40.56	68.3	20.0	V
16799.900	54.4	-23.0	41.6	35.78	68.3	13.9	V
17004.500	57.5	-23.0	41.7	38.84	68.3	10.8	H
17748.100	57.3	-22.3	41.2	38.35	68.3	11.0	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)
5725.060	63.8	-23.0	34.9	51.92	68.3	4.5	H
5725.013	64.4	-23.0	34.9	52.45	68.3	3.9	H
11400.000	47.4	-29.7	38.4	38.73	68.3	20.9	H
17100.200	54.0	-23.0	41.6	35.45	68.3	14.3	V
17586.400	57.5	-22.3	41.2	38.57	68.3	10.8	H
17868.550	57.7	-22.6	41.3	38.95	68.3	10.6	H

Channel 144

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)
5299.400	54.3	-22.6	34.4	42.52	68.3	14.0	H
5845.600	56.0	-22.4	35.0	43.39	68.3	12.3	H
10183.400	47.5	-30.0	37.3	40.21	68.3	20.8	V
14899.100	52.7	-25.1	39.8	37.96	68.3	15.6	V
16628.850	55.7	-23.3	41.5	37.53	68.3	12.6	H
17074.350	56.6	-23.0	41.6	38.00	68.3	11.7	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)
5145.548	64.6	-23.3	34.3	53.57	74.0	9.4	H
5147.228	66.6	-23.3	34.3	55.60	74.0	7.4	H
10379.500	49.9	-29.5	37.5	41.92	68.3	18.4	V
16800.450	56.3	-23.0	41.6	37.72	68.3	12.0	V
17012.750	57.7	-23.0	41.7	38.99	68.3	10.6	V
17494.550	57.1	-22.9	41.2	38.82	68.3	11.2	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)
5168.600	55.6	-23.2	34.3	44.47	74.0	18.4	H
5293.400	56.5	-22.7	34.4	44.75	74.0	17.5	H
10459.500	49.1	-29.5	37.6	40.98	68.3	19.2	H
16834.000	56.7	-23.0	41.6	38.09	68.3	11.6	H
17318.000	56.6	-22.8	41.4	38.10	68.3	11.7	V
17674.950	57.0	-22.1	41.2	37.89	68.3	11.3	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)
5192.800	55.9	-23.2	34.4	44.72	74.0	18.1	H
5335.000	58.6	-22.4	34.5	46.51	74.0	15.4	H
10539.800	46.3	-29.5	37.6	38.25	68.3	22.0	H
15809.900	51.6	-24.1	40.6	35.14	68.3	16.7	V
17680.450	57.2	-22.1	41.2	38.09	68.3	11.1	V
17909.800	57.2	-22.6	41.3	38.59	68.3	11.1	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)
5351.096	64.6	-22.3	34.5	52.36	74.0	9.4	V
5352.284	63.8	-22.3	34.5	51.61	74.0	10.2	H
5354.000	46.0	-22.3	34.5	33.83	68.3	22.3	V
15929.800	52.1	-23.9	40.7	35.24	68.3	16.2	H
17556.700	57.3	-22.5	41.2	38.63	68.3	11.0	H
17924.100	57.3	-22.7	41.3	38.71	68.3	11.0	V

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)
5458.540	65.0	-22.7	34.6	53.14	74.0	9.0	H
5459.605	65.6	-22.7	34.6	53.70	74.0	8.4	H
11019.950	48.1	-29.8	37.9	40.06	68.3	20.2	V
16529.850	54.5	-23.2	41.4	36.29	68.3	13.8	H
16864.250	57.4	-23.0	41.6	38.80	68.3	10.9	H
17628.750	57.1	-22.1	41.2	37.92	68.3	11.2	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)
5234.800	54.7	-23.4	34.4	43.64	68.3	13.6	H
5845.600	56.0	-22.4	35.0	43.39	68.3	12.3	H
11180.000	47.3	-30.4	38.1	39.65	68.3	21.0	V
16770.200	54.3	-23.0	41.6	35.70	68.3	14.0	H
17258.600	57.2	-22.8	41.4	38.59	68.3	11.1	V
17982.400	57.6	-22.8	41.3	39.14	68.3	10.7	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)
5725.813	64.3	-23.0	34.9	52.36	68.3	4.0	H
5728.613	64.5	-23.0	34.9	52.65	68.3	3.8	H
11340.050	47.1	-30.0	38.3	38.81	68.3	21.2	H
16670.100	56.4	-23.2	41.5	38.13	68.3	11.9	V
17010.000	54.2	-23.0	41.7	35.50	68.3	14.1	V
17501.150	57.3	-22.9	41.2	38.95	68.3	11.0	H

Channel 142

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)
5295.600	54.7	-22.7	34.4	42.90	68.3	13.6	H
5922.400	55.6	-22.2	35.1	42.76	68.3	12.7	H
10396.800	47.9	-29.3	37.5	39.69	68.3	20.4	V
13769.950	52.0	-26.6	39.0	39.69	68.3	16.3	V
14815.500	54.1	-25.0	39.7	39.46	68.3	14.2	V
17264.100	56.4	-22.8	41.4	37.77	68.3	11.9	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)
5147.778	66.2	-23.3	34.3	55.17	74.0	7.8	H
5148.663	66.0	-23.3	34.3	54.91	74.0	8.0	H
10419.900	44.3	-29.3	37.5	36.08	68.3	24.0	V
15630.050	54.3	-24.5	40.4	38.52	68.3	14.0	V
16966.000	58.8	-23.0	41.7	40.18	68.3	9.5	V
17956.550	59.7	-22.7	41.3	41.15	68.3	8.6	V

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)
5350.272	66.7	-22.3	34.5	54.53	74.0	7.3	H
5050.961	66.8	-23.7	34.2	56.26	74.0	7.2	H
10579.950	43.9	-29.3	37.6	35.60	68.3	24.4	V
15869.850	53.5	-24.0	40.6	36.90	68.3	14.8	H
16927.500	58.3	-23.0	41.7	39.69	68.3	10.0	H
17672.750	59.5	-22.1	41.2	40.34	68.3	8.8	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)
5452.990	64.3	-22.7	34.6	52.40	74.0	9.7	H
5460.000	64.1	-22.7	34.6	52.17	74.0	9.9	H
11060.100	45.8	-29.9	38.0	37.66	68.3	22.5	V
16589.800	55.4	-23.3	41.5	37.21	68.3	12.9	H
17617.750	59.8	-22.1	41.2	40.73	68.3	8.5	V
17953.800	59.4	-22.7	41.3	40.83	68.3	8.9	V

Channel 138

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
5551.200	55.6	-22.6	34.7	43.50	74.0	18.4	H
6008.800	55.5	-21.3	35.2	41.52	74.0	18.5	H
11380.200	45.7	-29.8	38.4	37.17	68.3	22.6	V
17069.950	57.2	-23.0	41.6	38.59	68.3	11.1	V
17662.300	59.0	-22.1	41.2	39.84	68.3	9.3	V
17968.100	60.2	-22.8	41.3	41.63	68.3	8.1	V

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

Test Condition:

Voltage (V)	Frequency (Hz)
120	60

Measurement uncertainty:

Expanded measurement uncertainty for this test item is $U = 3.10\text{dB}$, $k=2$.

Measurement Result and limit:

WLAN (Quasi-peak Limit)

Frequency range (MHz)	Quasi-peak Limit (dBμV)	Result (dBμV)		Conclusion
		With charger		
		802.11a	Idle	
0.15 to 0.5	66 to 56	Fig.78	Fig.79	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		
		802.11a	Idle	
0.15 to 0.5	67 56 to 46	Fig.78	Fig.79	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:

Traffic:

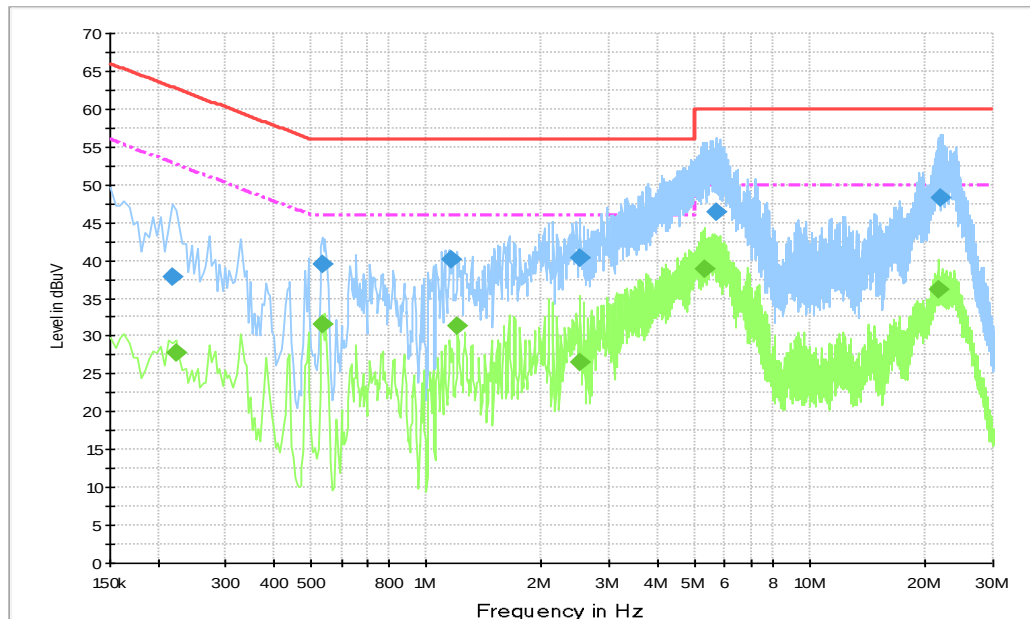


Fig.78 Conducted Emission (802.11a, Ch40, TX)

Note1: The graphic result above is the maximum of the measurements for both phase line and neutral line.

Final Result 1

Frequency (MHz)	QuasiPeak (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.217500	37.8	10000	9.000	L1	19.9	25.1	62.9
0.537000	39.4	10000	9.000	L1	20.0	16.6	56.0
1.167000	40.2	10000	9.000	L1	19.8	15.8	56.0
2.517000	40.3	10000	9.000	L1	19.8	15.7	56.0
5.703000	46.4	10000	9.000	L1	19.8	13.6	60.0
21.759000	48.2	10000	9.000	L1	20.0	11.8	60.0

Final Result 2

Frequency (MHz)	Average (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.222000	27.8	10000	9.000	L1	19.9	25.0	52.7
0.537000	31.5	10000	9.000	L1	20.0	14.5	46.0
1.207500	31.2	10000	9.000	L1	19.8	14.8	46.0
2.521500	26.6	10000	9.000	L1	19.8	19.4	46.0
5.311500	38.8	10000	9.000	L1	19.8	11.2	50.0
21.678000	36.2	10000	9.000	L1	20.0	13.8	50.0

Note2: The measurement results showed here are worst cases of the combinations of different cables and chargers

Idle:

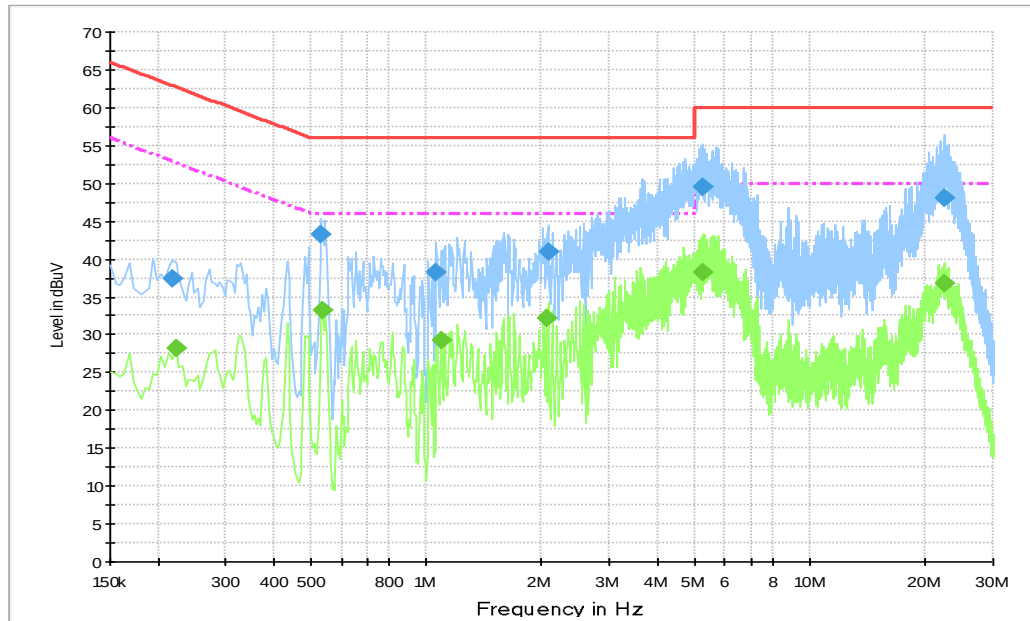


Fig.79 Conducted Emission(802.11a, IDLE)

Note1: The graphic result above is the maximum of the measurements for both phase line and neutral line.

Final Result 1

Frequency (MHz)	QuasiPeak (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.217500	37.5	10000	9.000	L1	19.9	25.5	62.9
0.532500	43.3	10000	9.000	L1	20.0	12.7	56.0
1.063500	38.2	10000	9.000	L1	19.8	17.8	56.0
2.076000	40.9	10000	9.000	L1	19.8	15.1	56.0
5.239500	49.6	10000	9.000	L1	19.8	10.4	60.0
22.407000	48.0	10000	9.000	L1	20.0	12.0	60.0

Final Result 2

Frequency (MHz)	Average (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.222000	28.1	10000	9.000	L1	19.9	24.6	52.7
0.537000	33.3	10000	9.000	L1	20.0	12.7	46.0
1.090500	29.2	10000	9.000	L1	19.8	16.8	46.0
2.071500	32.2	10000	9.000	L1	19.8	13.8	46.0
5.239500	38.3	10000	9.000	L1	19.8	11.7	50.0
22.389000	36.7	10000	9.000	L1	20.0	13.3	50.0

Note2: The measurement results showed here are worst cases of the combinations of different cables and chargers

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.80	17.26	P
	5200 MHz	Fig.81	17.26	P
	5240 MHz	Fig.82	17.26	P
802.11n HT20	5180 MHz	Fig.83	18.36	P
	5200 MHz	Fig.84	18.35	P
	5240 MHz	Fig.85	18.36	P
802.11ac HT20	5180 MHz	Fig.86	18.36	P
	5200 MHz	Fig.87	18.37	P
	5240 MHz	Fig.88	18.35	P
802.11n HT40	5190 MHz	Fig.89	36.32	P
	5230 MHz	Fig.90	36.36	P
802.11ac	5190 MHz	Fig.91	36.35	P

HT40	5230 MHz	Fig.92	36.33	P
802.11ac HT80	5210 MHz	Fig.93	75.82	P

Conclusion: PASS

Test graphs as below:

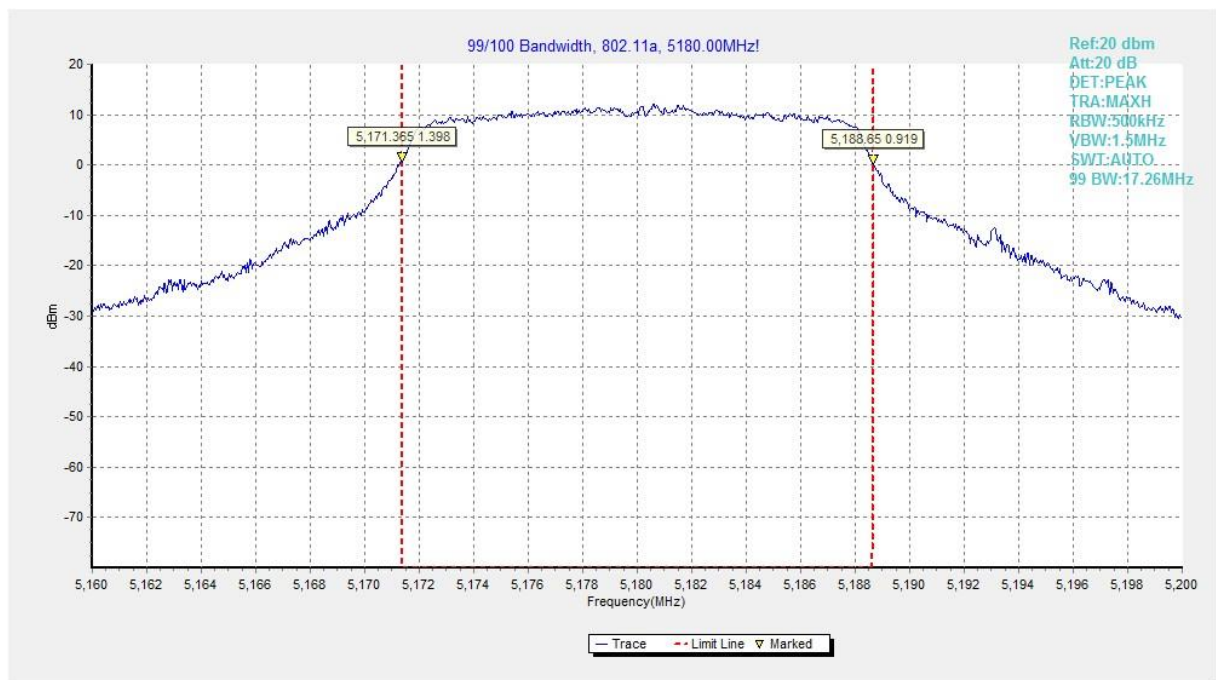


Fig.80 99% Occupied bandwidth (802.11a, 5180MHz)

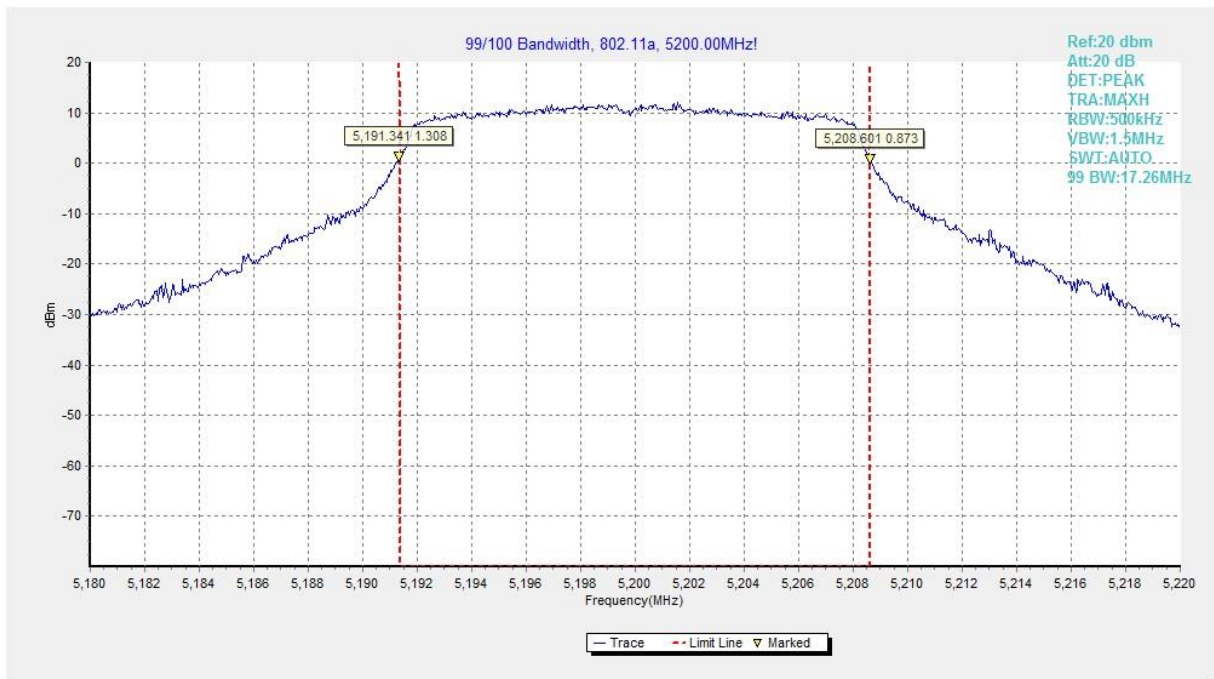


Fig.81 99% Occupied bandwidth (802.11a, 5200MHz)



Fig.82 99% Occupied bandwidth (802.11a, 5240MHz)



Fig.83 99% Occupied bandwidth (802.11n-HT20, 5180MHz)

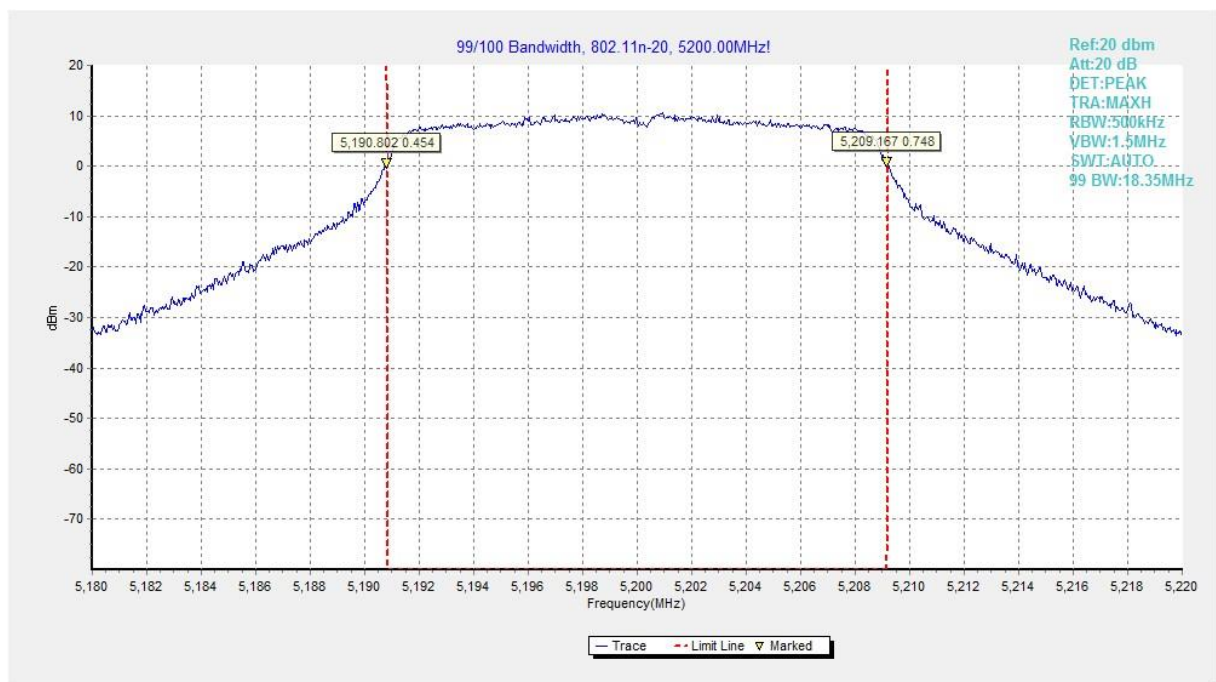


Fig.84 99% Occupied bandwidth (802.11n-HT20, 5200MHz)

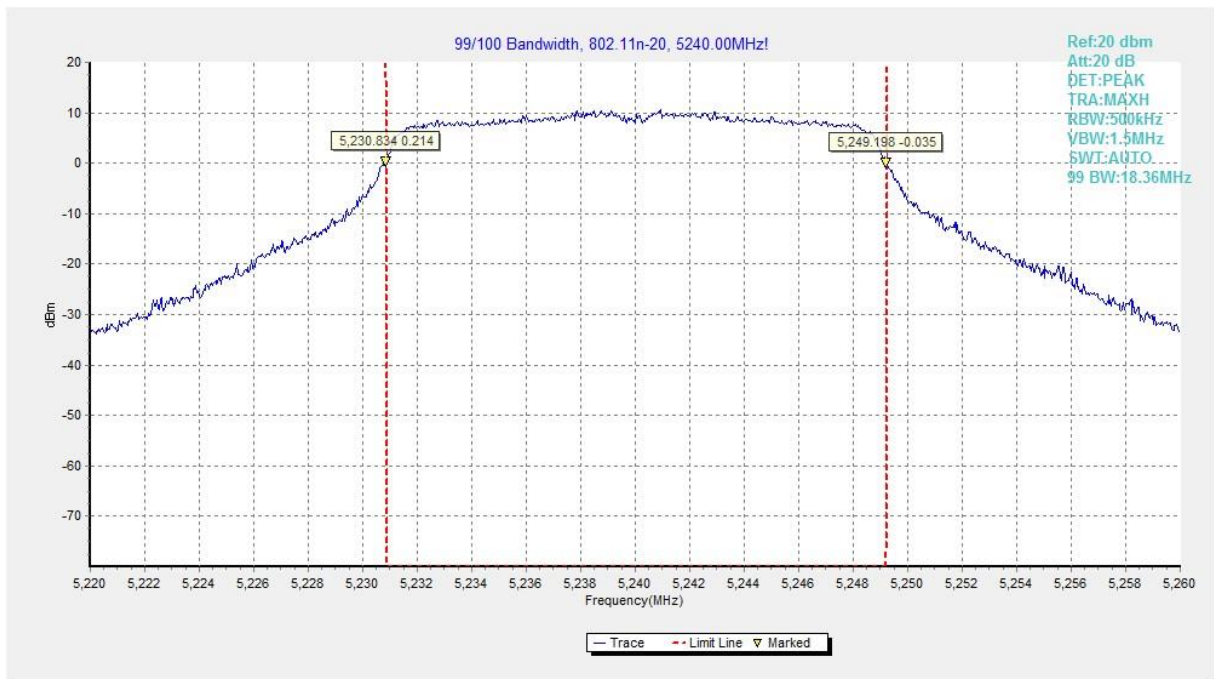


Fig.85 99% Occupied bandwidth (802.11n-HT20, 5240MHz)

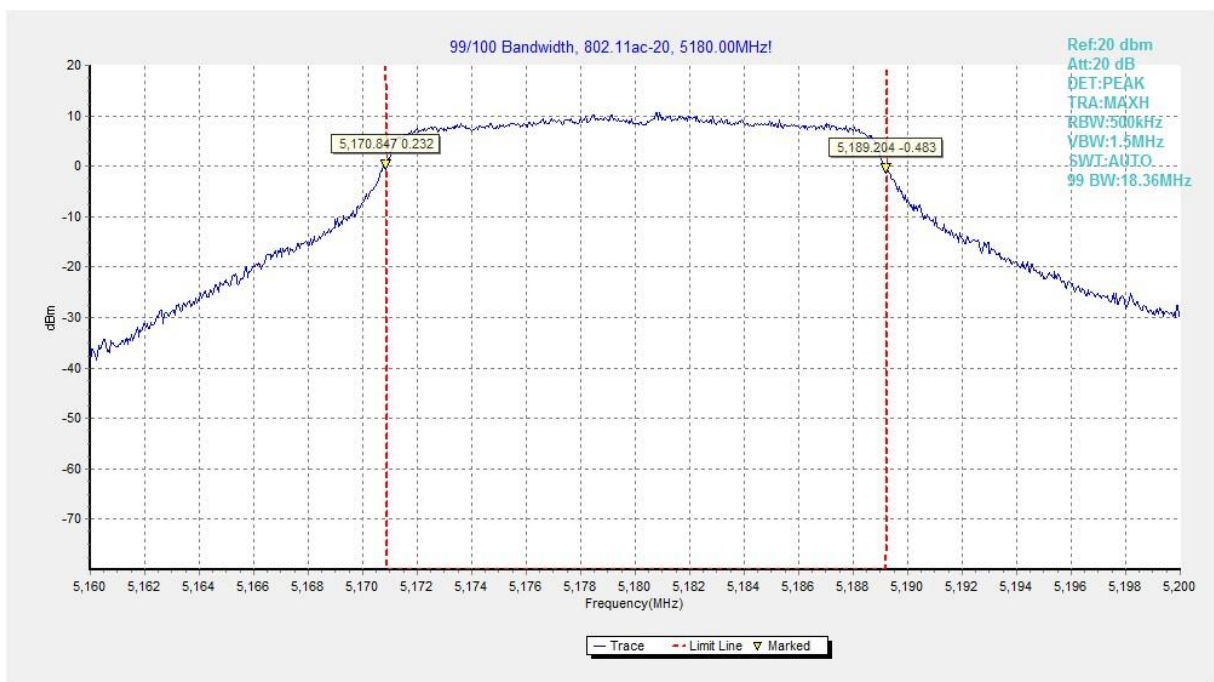


Fig.86 99% Occupied bandwidth (802.11ac-HT20, 5180MHz)

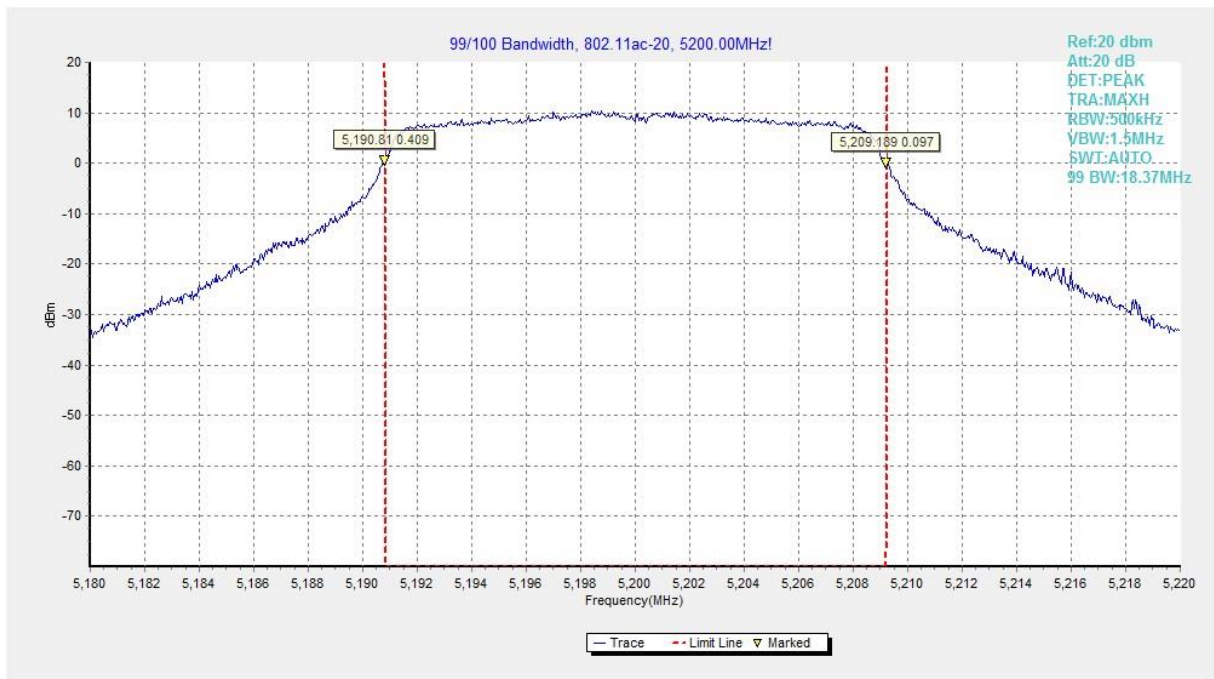


Fig.87 99% Occupied bandwidth (802.11ac-HT20, 5200MHz)

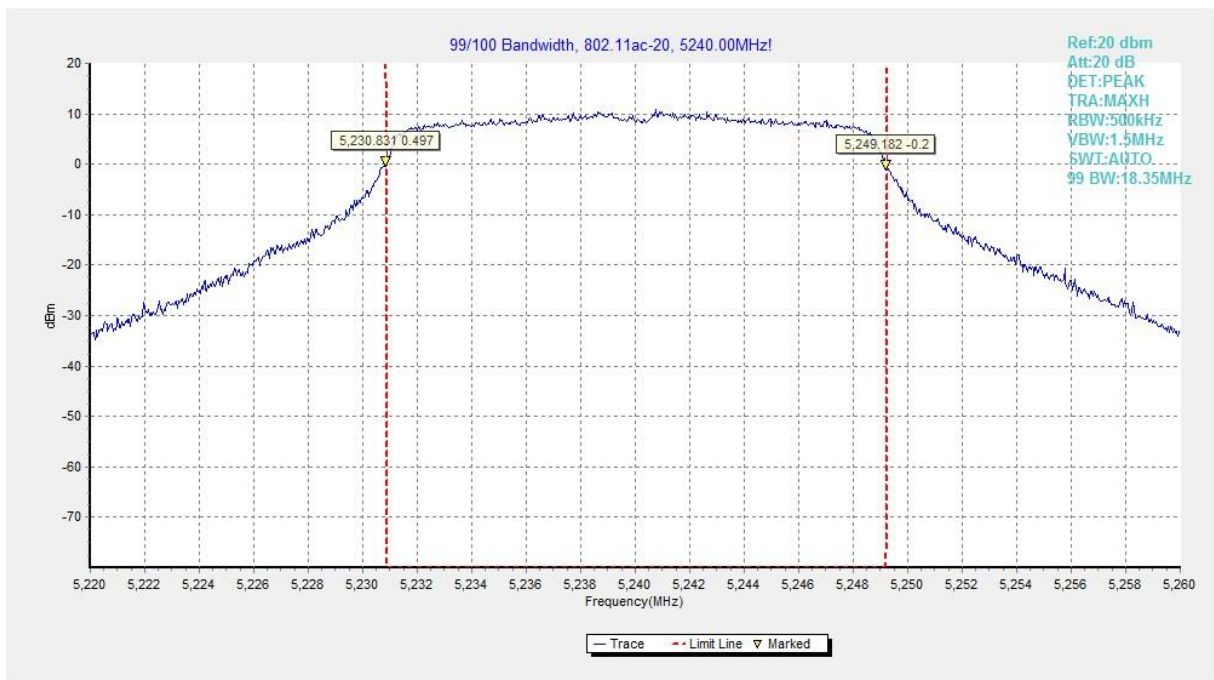


Fig.88 99% Occupied bandwidth (802.11ac-HT20, 5240MHz)