

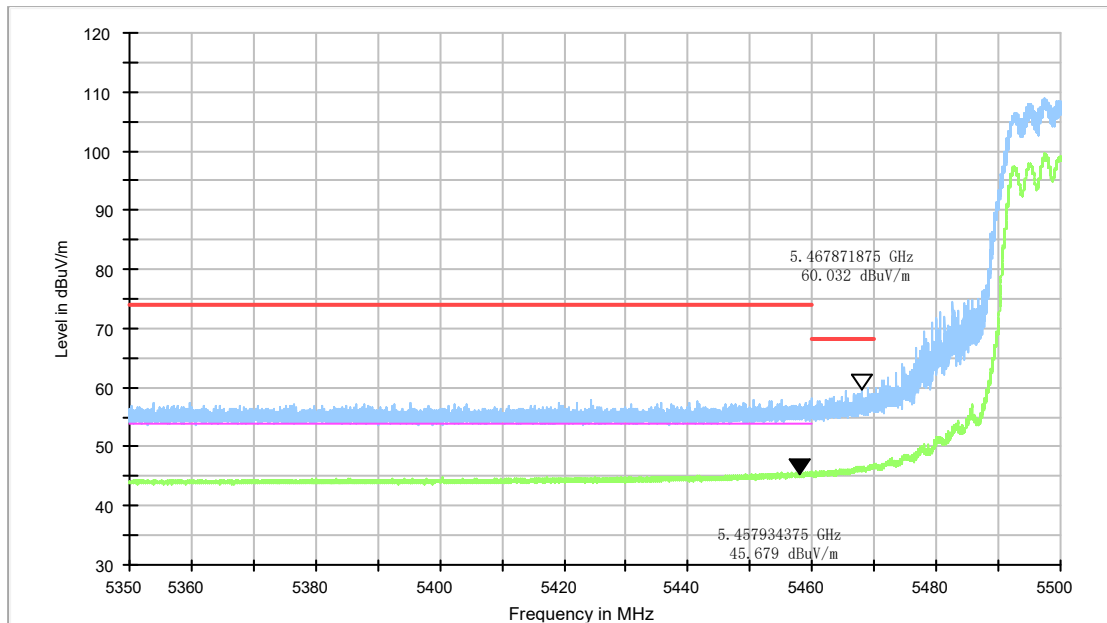


Fig.48 Band Edges (802.11ac-HT20 Ch100, 5500MHz)

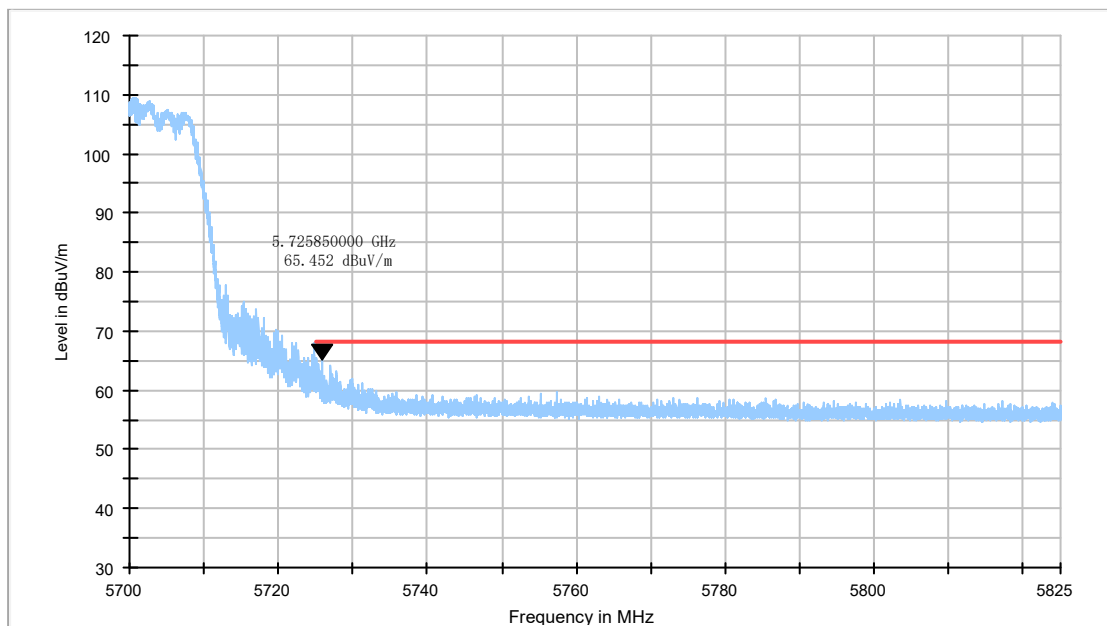


Fig.49 Band Edges (802.11ac-HT20 Ch140, 5700MHz)

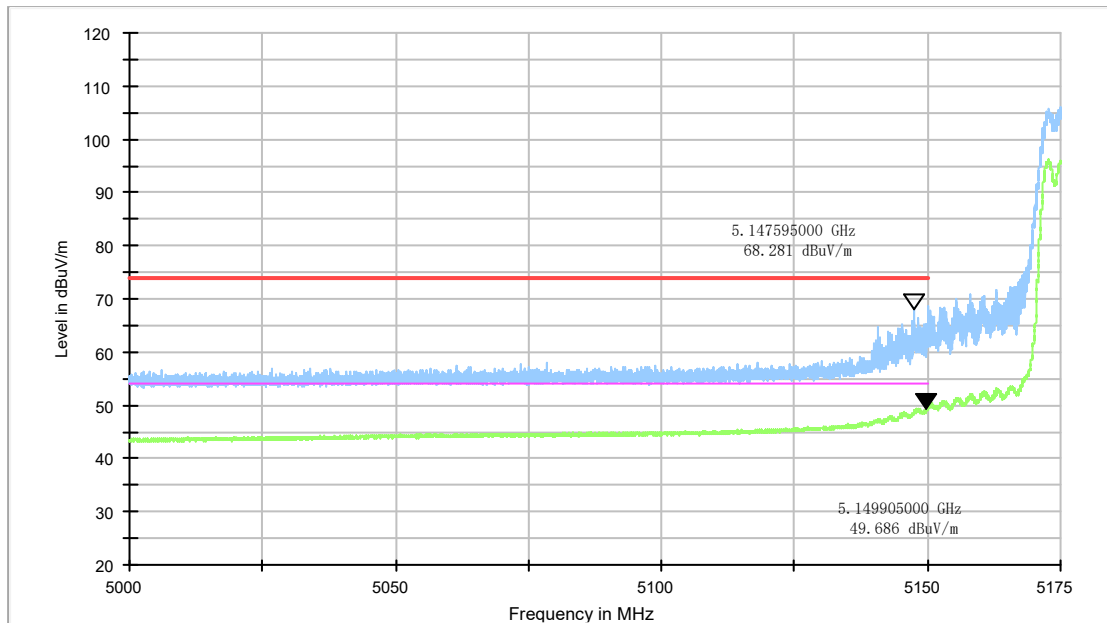


Fig.50 Band Edges (802.11ac-HT40 Ch38, 5190MHz)

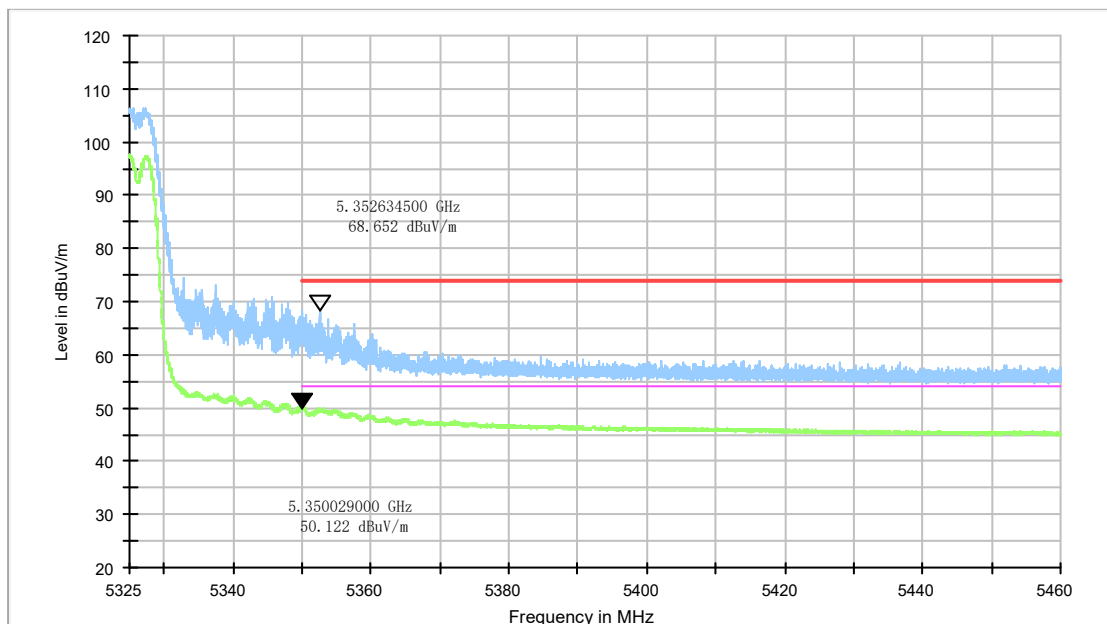


Fig.51 Band Edges (802.11ac-HT40 Ch62, 5310MHz)

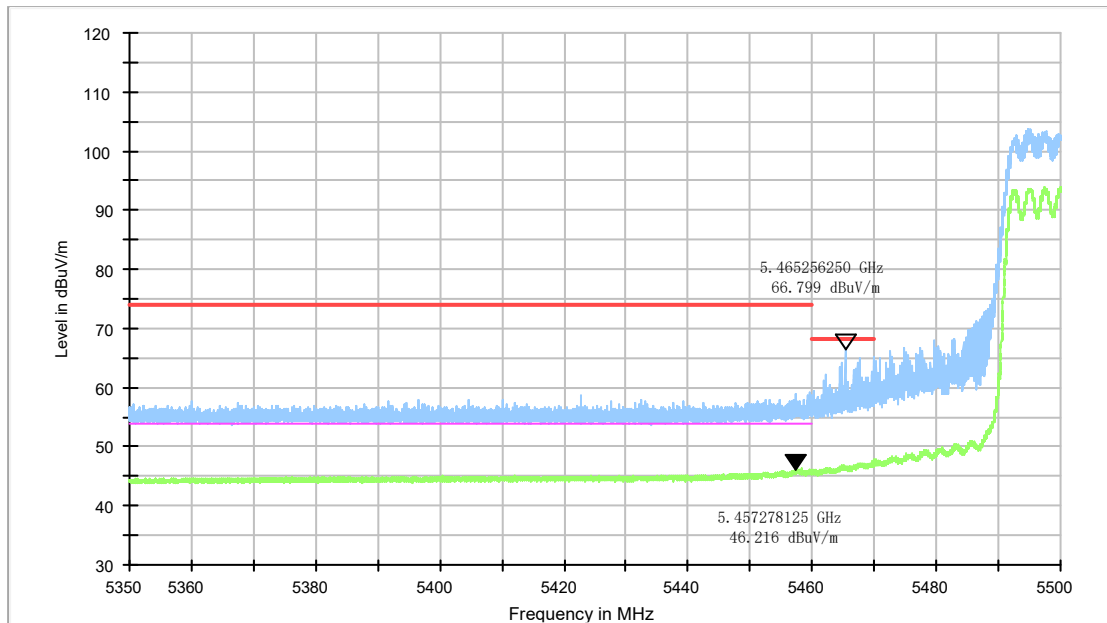


Fig.52 Band Edges (802.11ac-HT40 Ch102, 5510MHz)

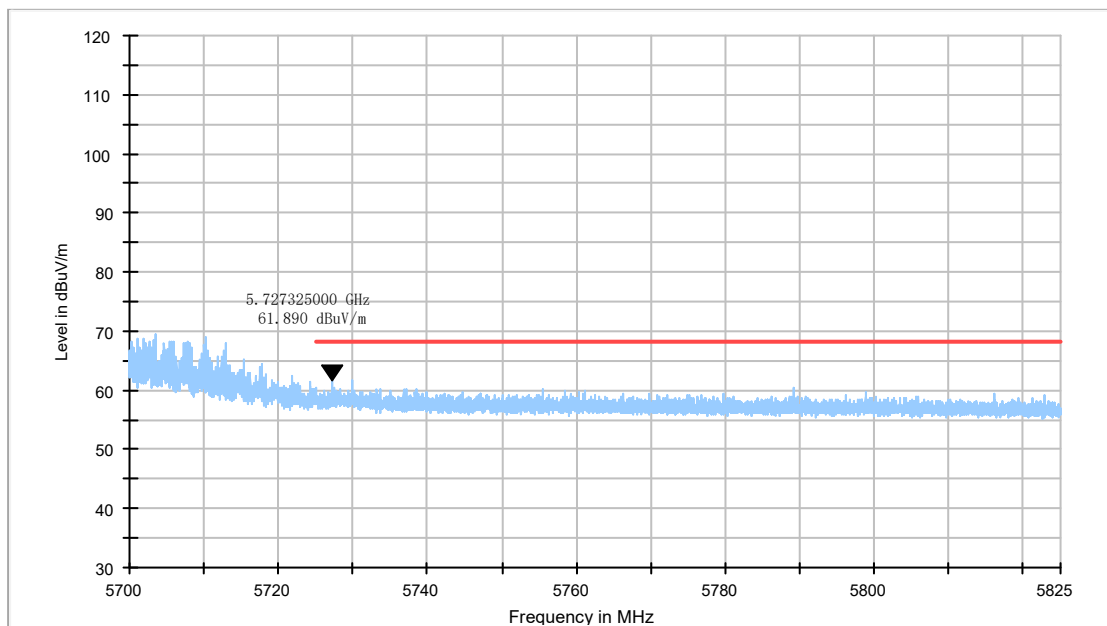


Fig.53 Band Edges (802.11ac-HT40 Ch134, 5670MHz)

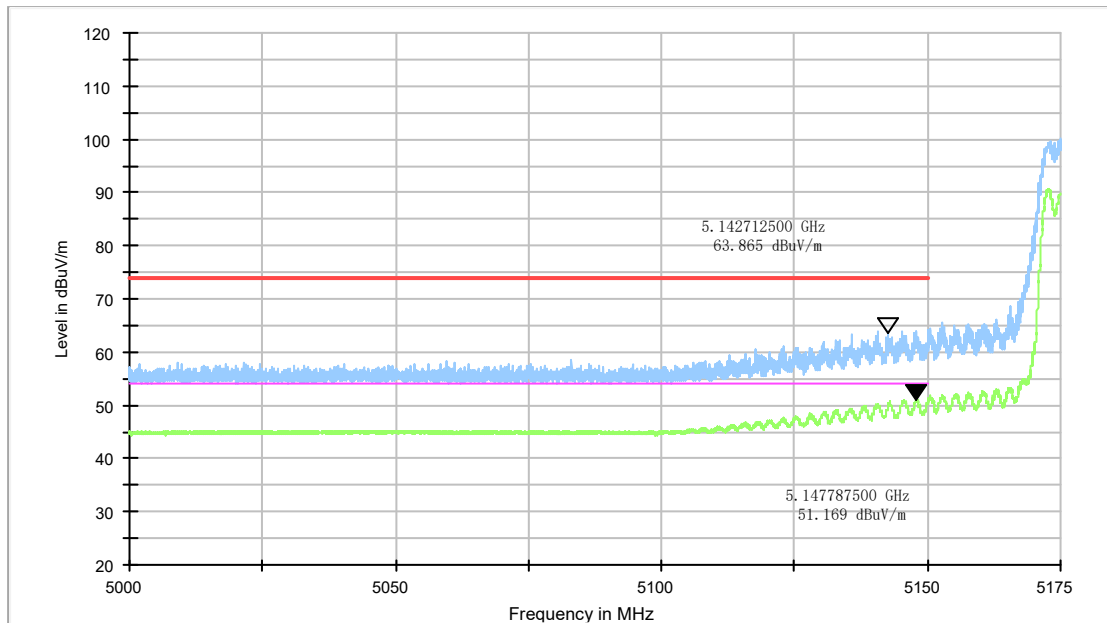


Fig.54 Band Edges (802.11ac-HT80 Ch42 , 5210MHz)

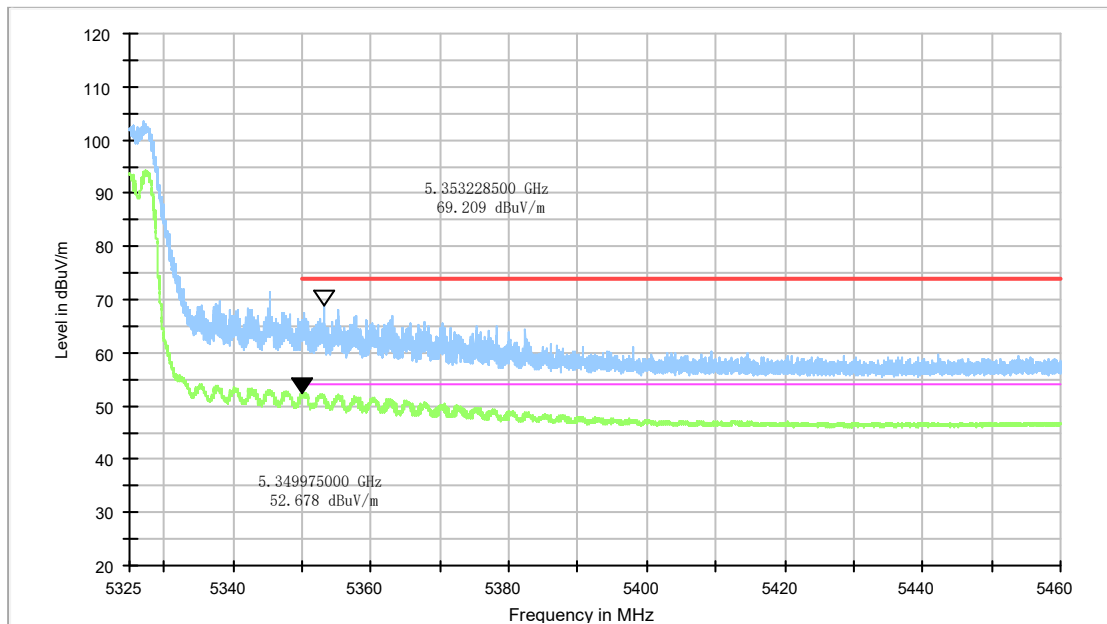


Fig.55 Band Edges (802.11ac-HT80 Ch58, 5290MHz)

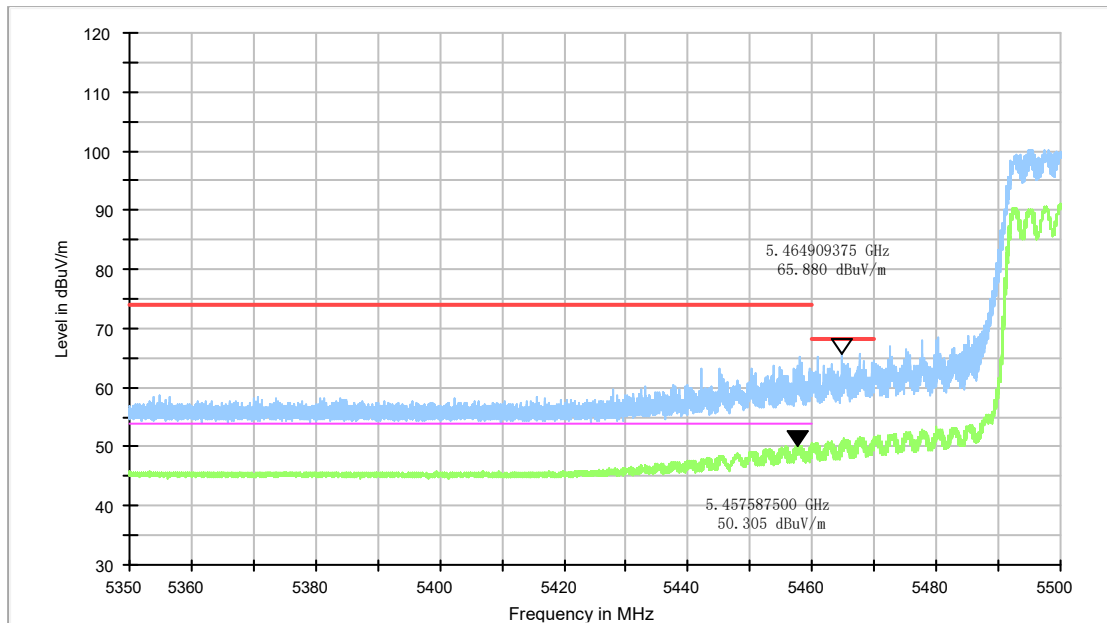


Fig.56 Band Edges (802.11ac-HT80 Ch106, 5530MHz)

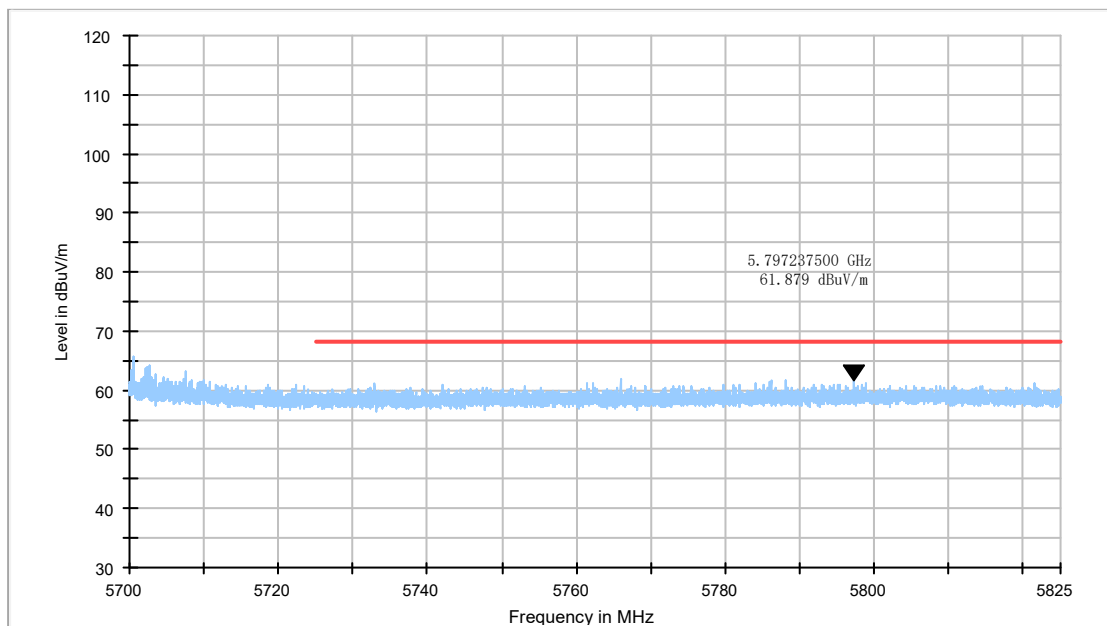


Fig.57 Band Edges (802.11ac-HT80 Ch122, 5610MHz)

A.6. Transmitter Spurious Emission

Measurement Limit:

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

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 (MHz)	Field strength(μ V/m)	Measurement distance(m)
0.009 - 0.490	2400/F(kHz)	300
0.490 - 1.705	24000/F(kHz)	30
1.705 – 30.0	30	30

Frequency of emission (MHz)	Field strength(μ V/m)	Field strength(dBuV/m)	Measurement distance(m)
30-88	100	40	3
88-216	150	43.5	3
216-960	200	46	3
Above 960	500	54	3

The measurement is made according to ANSI C63.10-2013 and KDB 789033

Set up:

Tabletop devices shall be placed on a nonconducting platform with nominal top surface dimensions 1 m by 1.5 m. For emissions testing at or below 1 GHz, the table height shall be 80 cm above the reference ground plane. For emission measurements above 1 GHz, the table height shall be 1.5 m

The EUT and transmitting antenna shall be centered on the turntable.

Test Procedure

The EUT was placed on a non-conductive table. The measurement antenna was placed at a distance of 3 meters from the EUT. The test is carried out on both vertical and horizontal polarization and only maximization result of both polarizations is kept. During the test, the turntable is rotated 360° and the measurement antenna is moved from 1m to 4m to get the maximization result. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations.

The receiver references:

Frequency of emission (MHz)	RBW/VBW	Sweep Time(s)
30-1000	100kHz/300kHz	5
1000-4000	1MHz/3MHz	15
4000-18000	1MHz/3MHz	40
18000-26500	1MHz/3MHz	20

Sample Calculations

1. Convert the resultant EIRP level to an equivalent electric field strength using the following relationship:

$$E = \text{EIRP} - 20 \log(D) + 104.77$$

Where:

E is the field strength in dB μ V/m

D is the measurement distance in meters

EIRP is the equivalent isotropically radiated power in dbm

2. The measurement results are obtained as described below:

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

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.

3. The measurements were performed separately in ANT0, ANT1, and MIMO (ANT0+ANT1), and only the worst cases are shown in this section.

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)	9kHz ~30 MHz	---	P
		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)	9kHz ~30 MHz	---	P
		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)	9kHz ~30 MHz	---	P
		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

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)	9kHz ~30 MHz	---	P
		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)	9kHz ~30 MHz	---	P
		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

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)	9kHz ~30 MHz	---	P
		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)	1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P
	102(5510MHz)	9kHz ~30 MHz	---	P
		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)	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)	9kHz ~30 MHz	---	P
		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)	9kHz ~30 MHz	---	P
		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

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)	9kHz ~30 MHz	---	P
		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)	1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P
	102(5510MHz)	9kHz ~30 MHz	---	P
		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)	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)	9kHz ~30 MHz	---	P
		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
	122(5610MHz)	1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P

Conclusion: PASS

RESULTS ABOVE 1GHz

AVERAGE Results:

802.11a

Channel 36

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
5149.600	48.22	-23.72	34.40	37.55	54.00	5.78	V
5150.000	48.66	-23.72	34.40	37.98	54.00	5.34	V
11936.800	34.30	-31.37	38.76	26.91	54.00	19.70	H
15540.400	34.99	-28.05	40.08	22.96	54.00	19.01	V
17755.800	36.83	-26.51	41.30	22.04	54.00	17.17	V
17978.000	37.22	-26.00	41.20	22.02	54.00	16.78	H

Channel 40

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
5149.800	46.11	-23.72	34.40	35.44	54.00	7.89	V
5150.000	46.16	-23.72	34.40	35.48	54.00	7.84	V
12694.700	34.89	-30.77	39.19	26.47	54.00	19.11	H
15599.800	34.89	-27.77	40.20	22.47	54.00	19.11	H
17731.600	36.62	-26.51	41.30	21.83	54.00	17.38	V
17978.000	36.74	-26.00	41.20	21.54	54.00	17.26	H

Channel 48

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
5147.000	43.93	-23.73	34.39	33.27	54.00	10.07	V
5150.000	43.98	-23.72	34.40	33.31	54.00	10.02	V
12656.200	34.56	-30.86	39.11	26.32	54.00	19.44	V
15719.700	34.68	-27.26	40.34	21.60	54.00	19.32	V
17759.100	36.55	-26.50	41.30	21.75	54.00	17.45	H
17975.800	36.55	-26.00	41.20	21.35	54.00	17.45	H

Channel 52

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
5350.800	44.49	-23.41	34.50	33.41	54.00	9.51	V
5356.200	44.28	-23.41	34.50	33.19	54.00	9.72	V
12682.600	34.85	-30.81	39.17	26.50	54.00	19.15	V
15780.200	34.80	-27.18	40.46	21.52	54.00	19.20	H
17752.500	36.37	-26.51	41.30	21.58	54.00	17.63	V
17976.900	36.52	-26.00	41.20	21.32	54.00	17.48	H

Channel 56

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
5354.400	45.41	-23.41	34.50	34.32	54.00	8.59	V
5355.400	45.53	-23.41	34.50	34.44	54.00	8.47	V
12679.300	34.70	-32.64	37.60	29.75	54.00	19.30	H
15839.600	35.41	-27.01	40.58	21.84	54.00	18.59	H
17738.200	36.47	-26.51	41.30	21.68	54.00	17.53	V
17960.400	36.28	-26.03	41.20	21.11	54.00	17.72	V

Channel 64

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
5350.000	50.60	-23.41	34.50	39.52	54.00	3.40	V
5350.400	50.36	-23.41	34.50	39.27	54.00	3.64	V
10639.900	31.18	-32.92	37.68	26.42	54.00	22.82	H
15959.500	35.40	-26.96	40.76	21.61	54.00	18.60	H
17749.200	36.40	-26.51	41.30	21.61	54.00	17.60	V
17978.000	36.50	-26.00	41.20	21.30	54.00	17.50	H

Channel 100

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
5459.000	45.95	-23.25	34.42	34.78	54.00	8.05	V
5456.400	45.64	-23.26	34.41	34.49	54.00	8.36	V
10999.600	32.62	-32.22	37.80	27.04	54.00	21.38	H
15886.900	35.75	-26.91	40.67	21.99	54.00	18.25	H
17731.600	36.51	-26.51	41.30	21.73	54.00	17.49	H
17980.200	36.54	-26.00	41.20	21.33	54.00	17.46	V

Channel 116

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
5456.400	43.4	-23.3	34.4	32.22	54.00	10.6	V
5458.800	43.4	-23.3	34.4	32.24	54.00	10.6	V
11160.200	32.5	-32.1	37.9	26.66	54.00	21.5	V
15872.600	35.8	-26.9	40.6	22.04	54.00	18.2	V
17754.700	36.4	-26.5	41.3	21.59	54.00	17.6	V
17989.000	36.7	-26.0	41.2	21.47	54.00	17.3	H

Channel 140

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
5372.000	42.99	-23.39	34.50	31.88	54.00	11.01	V
5376.000	42.99	-23.38	34.50	31.87	54.00	11.01	V
11400.000	31.71	-32.42	38.10	26.03	54.00	22.29	H
15864.900	36.14	-26.93	40.63	22.44	54.00	17.86	H
17730.500	36.56	-26.51	41.30	21.78	54.00	17.44	H
17995.600	36.98	-25.96	41.20	21.74	54.00	17.02	V

Channel 144

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
5369.200	43.13	-23.40	34.50	32.03	54.00	10.87	V
5385.000	43.16	-23.36	34.50	32.02	54.00	10.84	V
11439.600	31.73	-32.45	38.14	26.05	54.00	22.27	H
17722.800	36.74	-26.52	41.30	21.95	54.00	17.26	H
17836.100	36.70	-26.34	41.26	21.78	54.00	17.30	V
17956.000	37.25	-26.03	41.20	22.08	54.00	16.75	H

802.11n-HT20

Channel 36

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
5149.600	49.34	-23.72	34.40	38.66	54.00	4.66	V
5150.000	49.75	-23.72	34.40	39.07	54.00	4.25	V
12644.400	34.48	-30.88	39.09	26.28	54.00	19.52	H
15540.400	34.61	-28.05	40.08	22.58	54.00	19.39	V
17756.900	36.64	-26.50	41.30	21.84	54.00	17.36	V
17980.200	36.84	-26.00	41.20	21.64	54.00	17.16	V

Channel 40

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
5148.000	45.43	-23.73	34.39	34.76	54.00	8.57	V
5149.800	45.57	-23.72	34.40	34.89	54.00	8.43	V
12687.000	34.82	-30.80	39.17	26.44	54.00	19.18	V
15599.800	35.04	-27.77	40.20	22.61	54.00	18.96	V
17740.400	36.58	-26.51	41.30	21.79	54.00	17.42	V
17979.100	36.92	-26.00	41.20	21.72	54.00	17.08	V

Channel 48

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
5147.200	43.93	-23.73	34.39	33.27	54.00	10.07	V
5149.000	43.92	-23.72	34.40	33.25	54.00	10.08	V
12693.600	34.99	-30.77	39.19	26.58	54.00	19.01	H
15719.700	34.81	-27.26	40.34	21.73	54.00	19.19	H
17730.500	36.68	-26.51	41.30	21.90	54.00	17.32	V
17960.400	36.78	-26.03	41.20	21.60	54.00	17.22	H

Channel 52

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
5350.200	44.49	-23.41	34.50	33.40	54.00	9.51	V
5351.800	44.47	-23.41	34.50	33.38	54.00	9.53	V
12695.500	34.92	-32.56	37.60	29.88	54.00	19.08	H
15780.000	34.87	-27.18	40.46	21.59	54.00	19.13	V
17764.600	36.31	-26.50	41.30	21.51	54.00	17.69	H
17959.300	36.28	-26.03	41.20	21.11	54.00	17.72	H

Channel 56

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
5352.200	45.37	-23.41	34.50	34.29	54.00	8.63	V
5355.200	45.28	-23.41	34.50	34.19	54.00	8.72	V
12692.500	34.88	-32.64	37.60	29.93	54.00	19.12	V
15839.600	35.49	-27.01	40.58	21.93	54.00	18.51	H
17720.600	36.68	-26.52	41.30	21.90	54.00	17.32	H
17915.300	36.10	-26.09	41.20	20.98	54.00	17.90	V

Channel 64

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
5350.000	50.85	-23.41	34.50	39.76	54.00	3.15	V
5350.600	49.54	-23.41	34.50	38.45	54.00	4.46	V
10639.900	31.05	-32.92	37.68	26.30	54.00	22.95	V
15959.500	35.07	-26.96	40.76	21.27	54.00	18.93	V
17731.600	36.61	-26.51	41.30	21.82	54.00	17.39	H
17905.400	36.18	-26.10	41.20	21.08	54.00	17.82	H

Channel 100

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
5455.800	43.00	-23.27	34.41	31.86	54.00	11.00	V
5458.800	43.05	-23.25	34.42	31.89	54.00	10.95	V
10999.600	32.67	-32.22	37.80	27.09	54.00	21.33	V
15862.700	35.97	-26.94	40.63	22.28	54.00	18.03	V
17755.800	36.53	-26.51	41.30	21.73	54.00	17.47	V
17983.500	36.78	-25.99	41.20	21.57	54.00	17.22	H

Channel 116

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
5457.600	43.3	-23.3	34.4	32.10	54.0	10.7	V
5459.800	43.3	-23.3	34.4	32.15	54.0	10.7	V
11160.200	32.3	-32.1	37.9	26.46	54.0	21.7	V
15861.600	35.6	-26.9	40.6	21.89	54.0	18.4	H
17736.000	36.3	-26.5	41.3	21.51	54.0	17.7	V
17998.890	36.4	-26.0	41.2	21.20	54.0	17.6	V

Channel 140

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
5456.800	42.70	-23.26	34.41	31.55	54.00	11.30	V
5459.000	42.66	-23.25	34.42	31.50	54.00	11.34	V
11400.000	31.46	-32.42	38.10	25.78	54.00	22.54	H
15845.100	35.34	-26.99	40.59	21.74	54.00	18.66	H
17740.400	36.14	-26.51	41.30	21.35	54.00	17.86	V
17964.800	35.91	-26.02	41.20	20.73	54.00	18.09	V

Channel 144

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
5358.000	43.16	-23.41	34.50	32.06	54.00	10.84	V
5393.200	43.06	-23.34	34.50	31.90	54.00	10.94	V
11439.600	31.76	-32.45	38.14	26.08	54.00	22.24	V
17726.100	36.89	-26.51	41.30	22.10	54.00	17.11	V
17893.300	36.83	-26.12	41.21	21.74	54.00	17.17	H
17972.500	37.30	-26.01	41.20	22.11	54.00	16.70	V

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Channel 38

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
5149.600	51.20	-23.72	34.40	40.52	54.00	2.80	V
5150.000	51.91	-23.72	34.40	41.23	54.00	2.09	V
12688.100	34.84	-30.79	39.18	26.45	54.00	19.16	H
15570.100	34.76	-27.98	40.14	22.60	54.00	19.24	H
17753.600	36.59	-26.51	41.30	21.80	54.00	17.41	H
17985.700	37.09	-25.98	41.20	21.87	54.00	16.91	V

Channel 46

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
5148.000	45.98	-23.73	34.39	35.31	54.00	8.02	V
5149.800	46.08	-23.72	34.40	35.40	54.00	7.92	V
12641.900	34.33	-30.89	39.08	26.13	54.00	19.67	H
15690.000	35.23	-27.35	40.29	22.29	54.00	18.77	H
17755.800	36.63	-26.51	41.30	21.84	54.00	17.37	V
17976.900	36.94	-26.00	41.20	21.74	54.00	17.06	V

Channel 54

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
5350.000	46.76	-23.41	34.50	35.67	54.00	7.24	V
5352.200	46.66	-23.41	34.50	35.57	54.00	7.34	V
12706.800	35.05	-32.43	37.78	29.70	54.00	18.95	V
15809.900	35.30	-27.11	40.52	21.89	54.00	18.70	H
17708.500	36.44	-26.52	41.30	21.66	54.00	17.17	V
17985.700	36.83	-25.98	41.20	21.61	54.00	17.56	H

Channel 62

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
5350.000	49.04	-23.41	34.50	37.95	54.00	4.96	V
5352.000	48.90	-23.41	34.50	37.81	54.00	5.10	V
10620.100	31.48	-32.77	37.64	26.62	54.00	22.52	V
15929.800	35.65	-26.92	40.73	21.84	54.00	18.35	V
17731.600	36.52	-26.51	41.30	21.73	54.00	17.48	H
17978.000	36.74	-26.00	41.20	21.54	54.00	17.26	V

Channel 102

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
5457.800	43.25	-23.26	34.42	32.10	54.00	10.75	V
5458.400	43.32	-23.26	34.42	32.16	54.00	10.68	V
11020.500	32.82	-32.24	37.80	27.25	54.00	21.18	V
15890.200	36.47	-26.91	40.68	22.71	54.00	17.53	V
17737.100	36.85	-26.51	41.30	22.06	54.00	17.15	V
17979.100	37.43	-26.00	41.20	22.23	54.00	16.57	V

Channel 118

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
5453.800	43.40	-23.28	34.41	32.26	54.00	10.60	V
5457.800	43.55	-23.26	34.42	32.40	54.00	10.45	V
11180.000	32.25	-32.08	37.88	26.45	54.00	21.75	V
15849.500	36.23	-26.98	40.60	22.61	54.00	17.77	V
17711.800	36.41	-26.52	41.30	21.63	54.00	17.59	V
17960.400	36.87	-26.03	41.20	21.70	54.00	17.13	H

Channel 134

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
5375.400	42.96	-23.38	34.50	31.84	54.00	11.04	V
5399.400	42.87	-23.33	34.50	31.70	54.00	11.13	V
11339.500	32.34	-32.21	38.10	26.45	54.00	21.66	V
15853.900	36.24	-26.96	40.61	22.60	54.00	17.76	H
17717.300	36.58	-26.52	41.30	21.80	54.00	17.42	H
17964.800	36.92	-26.02	41.20	21.74	54.00	17.08	H

Channel 142

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
5360.000	43.11	-23.41	34.50	32.02	54.00	10.89	V
5379.800	43.12	-23.37	34.50	31.99	54.00	10.88	V
11419.800	31.80	-32.43	38.12	26.12	54.00	22.20	V
17715.100	36.44	-26.52	41.30	21.66	54.00	17.56	H
17826.200	36.32	-26.38	41.27	21.43	54.00	17.68	V
17942.600	36.41	-26.05	41.20	21.26	54.00	17.59	H

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Channel 36

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
5149.800	48.47	-23.72	34.40	37.79	54.00	5.53	V
5150.000	48.70	-23.72	34.40	38.02	54.00	5.30	V
12674.900	34.48	-30.83	39.15	26.16	54.00	19.52	V
15540.400	34.44	-28.05	40.08	22.41	54.00	19.56	H
17727.200	36.40	-26.51	41.30	21.61	54.00	17.60	H
17979.100	36.56	-26.00	41.20	21.35	54.00	17.44	H

Channel 40

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
5149.400	45.89	-23.72	34.40	35.21	54.00	8.11	V
5150.000	45.89	-23.72	34.40	35.21	54.00	8.11	V
12656.200	34.38	-30.86	39.11	26.14	54.00	19.62	H
15599.800	34.95	-27.77	40.20	22.52	54.00	19.05	H
17756.900	36.47	-26.50	41.30	21.67	54.00	17.53	H
17976.900	36.69	-26.00	41.20	21.49	54.00	17.31	V

Channel 48

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
5147.800	44.04	-23.73	34.39	33.37	54.00	9.96	V
5149.200	44.09	-23.72	34.40	33.41	54.00	9.91	V
12674.900	34.55	-30.83	39.15	26.23	54.00	19.45	H
15719.700	34.82	-27.26	40.34	21.74	54.00	19.18	V
17758.000	36.64	-26.50	41.30	21.84	54.00	17.36	V
17979.100	36.92	-26.00	41.20	21.72	54.00	17.08	V

Channel 52

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
5350.200	44.45	-23.41	34.50	33.36	54.00	9.55	V
5350.800	44.48	-23.41	34.50	33.39	54.00	9.52	V
12688.100	34.65	-32.56	37.60	29.62	54.00	19.35	V
15780.200	34.31	-27.18	40.46	21.04	54.00	19.69	H
17733.700	36.60	-26.51	41.30	21.81	54.00	17.40	V
17989.000	36.85	-25.98	41.20	21.63	54.00	17.15	H

Channel 56

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
5352.000	45.32	-23.41	34.50	34.23	54.00	8.68	V
5353.000	45.20	-23.41	34.50	34.11	54.00	8.80	V
12699.100	34.98	-32.64	37.60	30.02	54.00	19.02	V
15839.600	35.55	-27.01	40.58	21.99	54.00	18.45	H
17756.900	36.59	-26.50	41.30	21.80	54.00	17.41	V
17969.200	36.79	-26.01	41.20	21.61	54.00	17.21	H

Channel 64

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
5350.000	49.97	-23.41	34.50	38.88	54.00	4.03	V
5350.400	49.68	-23.41	34.50	38.59	54.00	4.32	V
10639.900	31.00	-32.92	37.68	26.24	54.00	23.00	H
15959.500	34.96	-26.96	40.76	21.16	54.00	19.04	H
17765.700	36.18	-26.50	41.30	21.38	54.00	17.82	H
17980.200	36.44	-26.00	41.20	21.23	54.00	17.56	H

Channel 100

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
5454.800	42.99	-23.27	34.41	31.86	54.00	11.01	V
5459.800	43.14	-23.25	34.42	31.97	54.00	10.86	V
10999.600	32.53	-32.22	37.80	26.95	54.00	21.47	H
15852.800	35.94	-26.97	40.61	22.31	54.00	18.06	V
17721.700	36.40	-26.52	41.30	21.62	54.00	17.60	H
17994.500	36.78	-25.96	41.20	21.54	54.00	17.22	H

Channel 116

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
5377.600	43.4	-23.4	34.5	32.27	54.0	10.6	V
5400.000	43.3	-23.3	34.5	32.09	54.0	10.7	V
11160.200	32.3	-32.1	37.9	26.50	54.0	21.7	H
15862.700	35.7	-26.9	40.6	22.01	54.0	18.3	V
17689.800	36.2	-26.6	41.3	21.44	54.0	17.8	V
17980.200	36.3	-26.0	41.2	21.07	54.0	17.7	V

Channel 140

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
5456.800	42.70	-23.26	34.41	31.55	54.00	11.30	V
5459.000	42.66	-23.25	34.42	31.50	54.00	11.34	V
11400.000	31.68	-32.42	38.10	26.01	54.00	22.32	H
15860.500	36.60	-26.94	40.62	22.92	54.00	17.40	V
17676.600	36.68	-26.58	41.28	21.98	54.00	17.32	V
17978.000	37.68	-26.00	41.20	22.49	54.00	16.32	V

Channel 144

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
5355.000	43.16	-23.41	34.50	32.07	54.00	10.84	V
5378.600	43.02	-23.38	34.50	31.90	54.00	10.98	V
11439.600	31.74	-32.45	38.14	26.05	54.00	22.26	V
17698.870	36.60	-26.54	41.30	21.84	54.00	17.40	H
17795.400	36.60	-26.49	41.30	21.79	54.00	17.40	V
17838.300	36.47	-26.33	41.26	21.54	54.00	17.53	H

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Channel 38

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
5148.200	48.18	-23.72	34.39	37.52	54.00	5.82	V
5149.800	48.45	-23.72	34.40	37.77	54.00	5.55	V
12643.000	34.37	-30.89	39.09	26.17	54.00	19.63	V
15570.100	34.80	-27.98	40.14	22.64	54.00	19.20	V
17732.700	36.63	-26.51	41.30	21.84	54.00	17.37	V
17964.800	36.71	-26.02	41.20	21.53	54.00	17.29	V

Channel 46

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
5149.800	45.74	-23.72	34.40	35.07	54.00	8.26	V
5150.000	45.78	-23.72	34.40	35.10	54.00	8.22	V
12657.300	34.52	-30.86	39.11	26.26	54.00	19.48	V
15690.000	35.24	-27.35	40.29	22.29	54.00	18.76	H
17750.300	36.57	-26.51	41.30	21.78	54.00	17.43	H
17982.400	36.98	-25.99	41.20	21.77	54.00	17.02	V

Channel 54

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
5350.000	46.86	-23.41	34.50	35.77	54.00	7.14	V
5350.200	46.78	-23.41	34.50	35.69	54.00	7.22	V
12692.500	34.97	-32.67	37.61	30.03	54.00	19.03	H
15809.900	35.21	-27.11	40.52	21.79	54.00	18.79	H
17687.600	36.40	-26.56	41.29	21.67	54.00	17.60	H
17997.800	36.84	-25.96	41.20	21.60	54.00	17.16	H

Channel 62

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
5350.000	48.64	-23.41	34.50	37.55	54.00	5.36	V
5350.400	48.56	-23.41	34.50	37.48	54.00	5.44	V
10620.100	31.33	-32.77	37.64	26.46	54.00	22.67	V
15929.800	35.62	-26.92	40.73	21.80	54.00	18.38	H
17720.600	36.46	-26.52	41.30	21.68	54.00	17.54	V
17987.900	36.65	-25.98	41.20	21.43	54.00	17.35	V

Channel 102

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
5457.400	42.92	-23.26	34.41	31.77	54.00	11.08	V
5459.000	43.06	-23.25	34.42	31.89	54.00	10.94	V
11020.500	32.68	-32.24	37.80	27.11	54.00	21.32	V
15852.800	36.03	-26.97	40.61	22.39	54.00	17.97	H
17722.800	36.47	-26.52	41.30	21.69	54.00	17.53	V
17985.700	36.86	-25.98	41.20	21.64	54.00	17.14	V

Channel 118

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
5456.200	43.74	-23.27	34.41	32.59	54.00	10.26	V
5459.000	43.63	-23.25	34.42	32.46	54.00	10.37	V
11180.000	32.20	-32.08	37.88	26.41	54.00	21.80	V
15852.800	36.40	-26.97	40.61	22.76	54.00	17.60	H
17968.100	37.03	-26.02	41.20	21.85	54.00	16.97	H
17712.900	36.66	-26.52	41.30	21.88	54.00	17.34	V

Channel 134

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
5375.000	43.03	-23.39	34.50	31.91	54.00	10.97	V
5450.600	42.82	-23.29	34.40	31.71	54.00	11.18	V
11339.500	32.58	-32.21	38.10	26.69	54.00	21.42	H
17756.900	36.77	-26.50	41.30	21.97	54.00	17.23	H
17714.000	36.67	-26.52	41.30	21.89	54.00	17.33	V
17980.200	36.96	-26.00	41.20	21.76	54.00	17.04	V

Channel 142

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
5366.600	43.23	-23.40	34.50	32.14	54.00	10.77	V
5395.000	43.10	-23.34	34.50	31.94	54.00	10.90	V
11419.800	31.77	-32.43	38.12	26.09	54.00	22.23	H
17703.000	36.50	-26.53	41.30	21.74	54.00	17.50	V
17924.100	36.51	-26.08	41.20	21.38	54.00	17.49	H
17796.500	36.33	-26.49	41.30	21.52	54.00	17.67	V

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Channel 42

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
5147.800	49.85	-23.73	34.39	39.18	54.00	4.15	V
5150.000	49.94	-23.72	34.40	39.26	54.00	4.06	V
10621.200	31.42	-32.78	37.64	26.56	54.00	22.58	H
15629.500	35.14	-27.57	40.23	22.48	54.00	18.86	H
17744.800	36.25	-26.51	41.30	21.46	54.00	17.75	V
17982.400	36.39	-25.99	41.20	21.18	54.00	17.61	H

Channel 58

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
5350.000	51.14	-23.41	34.50	40.06	54.00	2.86	V
5350.400	51.24	-23.41	34.50	40.15	54.00	2.76	V
10623.400	31.44	-32.80	37.65	26.59	54.00	22.56	H
15870.400	35.72	-26.91	40.64	21.99	54.00	18.28	H
17687.600	36.28	-26.56	41.29	21.56	54.00	17.72	V
17985.700	36.56	-25.98	41.20	21.34	54.00	17.44	V

Channel 106

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
5456.600	46.88	-23.26	34.41	35.73	54.00	7.12	V
5458.800	46.90	-23.25	34.42	35.73	54.00	7.10	V
11060.100	32.71	-32.07	37.80	26.98	54.00	21.29	H
17662.300	36.44	-26.61	41.26	21.79	54.00	17.56	V
17761.300	36.90	-26.50	41.30	22.10	54.00	17.10	V
17925.200	37.15	-26.08	41.20	22.03	54.00	16.85	H

Channel 122

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
5390.400	43.01	-23.35	34.50	31.85	54.00	10.99	V
5407.800	42.88	-23.33	34.48	31.73	54.00	11.12	V
11219.600	32.23	-32.10	37.94	26.39	54.00	21.77	V
17698.600	36.50	-26.54	41.30	21.75	54.00	17.50	H
17755.800	36.72	-26.51	41.30	21.92	54.00	17.28	H
17897.700	36.41	-26.11	41.20	21.32	54.00	17.59	H

Channel 138

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
5443.000	43.56	-23.30	34.41	32.44	54.00	10.44	V
5451.600	43.76	-23.29	34.40	32.64	54.00	10.24	V
11380.200	32.24	-32.41	38.10	26.55	54.00	21.76	H
17709.600	36.66	-26.52	41.30	21.89	54.00	17.34	H
17835.000	36.76	-26.35	41.26	21.84	54.00	17.24	H
17938.400	36.83	-26.06	41.20	21.69	54.00	17.17	H

PEAK Results:

802.11a

Channel 36

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
5148.190	62.63	-23.72	34.39	51.96	74.00	11.37	V
5149.852	63.42	-23.72	34.40	52.74	74.00	10.58	V
10359.950	43.84	-32.13	37.46	38.51	68.30	24.46	V
15539.850	47.71	-28.05	40.08	35.68	74.00	26.29	H
16796.600	50.98	-26.87	41.80	36.06	68.30	17.32	V
17234.950	50.42	-26.27	41.26	35.42	68.30	17.88	V

Channel 40

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
5160.000	61.73	-23.71	34.42	51.02	68.30	6.57	H
5234.600	63.54	-23.71	34.57	52.68	68.30	4.76	H
10400.100	44.09	-32.04	37.50	38.63	68.30	24.21	H
15599.800	46.68	-27.77	40.20	34.26	74.00	27.32	V
17243.200	49.74	-26.26	41.26	34.75	68.30	18.56	V
17522.600	49.88	-26.37	41.20	35.05	68.30	18.42	V

Channel 48

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
5205.200	62.57	-23.69	34.51	51.75	68.30	5.73	V
5266.000	63.52	-23.61	34.63	52.49	68.30	4.78	V
10479.850	44.25	-32.38	37.58	39.05	68.30	24.05	H
15720.250	46.26	-27.26	40.34	33.18	74.00	27.74	V
16762.500	49.48	-26.92	41.80	34.61	68.30	18.82	V
17234.650	50.28	-26.27	41.27	35.28	68.30	18.02	H

Channel 52

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
5229.400	66.55	-23.70	34.56	55.69	68.30	1.75	H
5290.000	65.07	-23.53	34.68	53.92	68.30	3.23	V
10520.000	44.30	-32.56	37.60	39.26	68.30	24.00	H
15780.200	47.37	-27.18	40.46	34.09	74.00	26.63	V
17169.500	50.01	-26.35	41.36	35.00	68.30	18.29	H
17223.950	51.00	-26.27	41.28	36.00	68.30	17.30	V

Channel 56

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
5344.600	65.00	-23.42	34.52	53.90	68.30	3.30	H
5310.400	66.84	-23.47	34.66	55.66	68.30	1.46	V
10560.150	44.15	-32.64	37.60	39.19	68.30	24.15	V
15840.150	46.56	-27.01	40.58	32.99	74.00	27.44	V
16683.850	49.10	-26.81	41.77	34.14	68.30	19.20	H
17168.950	50.99	-26.36	41.36	35.98	68.30	17.31	H

Channel 64

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
5350.056	67.23	-23.41	34.50	56.14	74.00	6.77	H
5350.367	68.44	-23.41	34.50	57.35	74.00	5.56	H
10639.900	43.80	-32.92	37.68	39.04	74.00	30.20	V
15960.050	47.57	-26.97	40.76	33.77	74.00	26.43	H
16560.650	50.37	-27.15	41.56	35.97	68.30	17.93	V
17229.450	51.00	-26.27	41.27	36.00	68.30	17.30	H

Channel 100

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
5468.893	66.72	-23.21	34.44	55.50	68.30	1.58	V
5469.831	66.40	-23.21	34.44	55.17	68.30	1.90	V
11000.150	44.35	-32.22	37.80	38.77	74.00	29.65	H
16500.150	46.96	-27.17	41.50	32.63	68.30	21.34	H
16678.350	49.77	-26.82	41.76	34.83	68.30	18.53	H
17219.550	50.55	-26.27	41.28	35.55	68.30	17.75	H

Channel 116

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
5554.200	63.8	-23.0	34.6	52.24	68.3	4.5	V
5610.000	63.1	-23.0	34.6	51.44	68.3	5.2	V
11160.200	44.0	-32.1	37.9	38.18	74.0	30.0	V
16739.950	46.0	-26.9	41.8	31.11	68.3	22.3	V
17250.350	50.0	-26.3	41.2	35.01	68.3	18.3	V
17744.800	49.9	-26.5	41.3	35.11	68.3	18.4	H

Channel 140

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
5725.112	64.40	-22.91	34.85	52.46	68.30	3.90	V
5725.175	64.37	-22.91	34.85	52.43	68.30	3.93	H
11400.000	42.97	-32.42	38.10	37.29	74.00	31.03	H
15091.600	49.00	-27.48	39.89	36.59	68.30	19.30	V
17100.200	47.34	-26.58	41.50	32.42	68.30	20.96	H
17308.650	51.13	-26.23	41.20	36.15	68.30	17.17	H

Channel 144

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
5687.600	63.45	-22.89	34.78	51.57	68.30	4.85	V
5757.000	64.15	-22.85	34.93	52.08	68.30	4.15	V
11440.150	43.09	-32.46	38.14	37.40	74.00	30.91	H
17160.150	47.73	-26.38	41.38	32.73	68.30	20.57	V
17261.900	51.21	-26.25	41.24	36.23	68.30	17.09	H
17479.150	50.30	-26.29	41.20	35.38	68.30	18.00	H

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Channel 36

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
5147.700	70.23	-23.73	34.39	59.57	74.00	3.77	V
5149.922	72.17	-23.72	34.40	61.49	74.00	1.83	H
10359.950	43.85	-32.13	37.46	38.52	68.30	24.45	H
15539.850	45.86	-28.05	40.08	33.83	74.00	28.14	H
16419.300	49.18	-27.16	41.18	35.16	68.30	19.12	H
17229.450	50.52	-26.27	41.27	35.52	68.30	17.78	H

Channel 40

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
5172.400	63.76	-23.71	34.44	53.02	68.30	4.54	H
5229.600	63.08	-23.71	34.56	52.22	68.30	5.22	V
10400.100	45.15	-32.04	37.50	39.69	68.30	23.15	H
15599.800	48.39	-27.77	40.20	35.97	74.00	25.61	H
16772.400	49.88	-26.92	41.80	34.99	68.30	18.42	V
17240.450	51.66	-26.26	41.26	36.66	68.30	16.64	H

Channel 48

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
5212.200	64.12	-23.68	34.52	53.27	68.30	4.18	H
5266.600	63.06	-23.60	34.63	52.03	68.30	5.24	V
10479.850	44.58	-32.38	37.58	39.38	68.30	23.72	H
15720.250	45.95	-27.26	40.34	32.87	74.00	28.05	H
16760.850	49.57	-26.92	41.80	34.69	68.30	18.73	H
17283.900	51.26	-26.24	41.22	36.28	68.30	17.04	H

Channel 52

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
5226.200	65.35	-23.70	34.55	54.50	68.30	2.95	H
5292.200	66.55	-23.53	34.68	55.39	68.30	1.75	V
10520.000	45.87	-32.56	37.60	40.84	68.30	22.43	H
15780.200	46.98	-27.18	40.46	33.70	74.00	27.02	V
16776.250	49.22	-26.91	41.80	34.33	68.30	19.08	V
17260.800	50.76	-26.25	41.24	35.77	68.30	17.54	V

Channel 56

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
5242.600	64.76	-23.70	34.59	53.87	68.30	3.54	V
5315.400	64.25	-23.46	34.64	53.07	68.30	4.05	H
10560.150	43.56	-32.64	37.60	38.60	68.30	24.74	V
15840.150	47.72	-27.01	40.58	34.15	74.00	26.28	H
16760.300	48.64	-26.92	41.80	33.76	68.30	19.66	H
17248.700	50.47	-26.26	41.25	35.48	68.30	17.83	V

Channel 64

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
5350.123	68.03	-23.41	34.50	56.94	74.00	5.97	H
5352.689	67.25	-23.41	34.50	56.16	74.00	6.75	V
10639.900	43.66	-32.92	37.68	38.90	74.00	30.34	V
15960.050	46.91	-26.97	40.76	33.12	74.00	27.09	V
16812.000	49.97	-26.85	41.80	35.01	68.30	18.33	H
17222.300	51.13	-26.27	41.28	36.12	68.30	17.17	V

Channel 100

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
5469.343	59.46	-23.21	34.44	48.23	68.30	8.84	H
5469.709	59.57	-23.21	34.44	48.34	68.30	8.73	H
11000.150	43.90	-32.22	37.80	38.32	74.00	30.10	H
16500.150	47.01	-27.17	41.50	32.68	68.30	21.29	H
17197.500	50.62	-26.29	41.30	35.61	68.30	17.67	H
17322.400	50.25	-26.22	41.20	35.27	68.30	18.05	H

Channel 116

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
5544.200	65.3	-23.1	34.6	53.74	68.3	3.0	H
5614.200	60.9	-23.0	34.6	49.26	68.3	7.4	V
11160.020	44.5	-32.1	37.9	38.73	74.0	29.5	H
16739.950	47.6	-26.9	41.8	32.65	68.3	20.7	V
17463.750	48.4	-26.3	41.2	33.42	68.3	19.9	V
17342.750	50.7	-26.2	41.2	35.76	68.3	17.6	H

Channel 140

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
5725.562	63.67	-22.91	34.85	51.74	68.30	4.62	H
5727.112	62.81	-22.92	34.85	50.88	68.30	5.49	V
11400.000	43.47	-32.42	38.10	37.80	74.00	30.53	H
17100.200	46.45	-26.58	41.50	31.53	68.30	21.85	H
17217.350	48.98	-26.27	41.28	33.98	68.30	19.31	V
17325.700	49.79	-26.22	41.20	34.81	68.30	18.51	H

Channel 144

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
5693.000	64.47	-22.86	34.79	52.55	68.30	3.83	H
5749.600	65.54	-22.87	34.90	53.51	68.30	2.76	H
11440.150	43.34	-32.46	38.14	37.66	74.00	30.66	V
17160.150	48.37	-26.38	41.38	33.37	68.30	19.93	H
17199.200	50.85	-26.28	41.30	35.83	68.30	17.45	V
17347.700	50.70	-26.21	41.20	35.71	68.30	17.60	H

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Channel 38

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
5147.595	70.81	-23.73	34.39	60.14	74.00	3.19	V
5147.980	70.83	-23.73	34.39	60.16	74.00	3.17	V
10379.750	44.66	-32.04	37.48	39.21	68.30	23.64	H
15570.100	46.71	-27.98	40.14	34.55	74.00	27.29	H
17100.200	51.46	-26.58	41.50	36.55	68.30	16.84	H
17299.300	50.91	-26.23	41.20	35.94	68.30	17.39	H

Channel 46

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
5166.200	65.91	-23.71	34.43	55.19	68.30	2.39	H
5279.400	65.78	-23.56	34.66	54.69	68.30	2.52	H
10460.050	45.22	-32.27	37.56	39.93	68.30	23.08	V
15690.000	47.05	-27.35	40.29	34.11	74.00	26.95	H
16823.550	49.55	-26.83	41.80	34.58	68.30	18.75	H
17255.300	50.85	-26.25	41.24	35.86	68.30	17.45	V

Channel 54

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
5204.600	65.36	-23.69	34.51	54.54	68.30	2.94	H
5323.200	65.63	-23.45	34.61	54.47	68.30	2.67	H
10539.800	43.10	-32.65	37.60	38.15	68.30	25.20	H
15809.900	47.11	-27.11	40.52	33.69	74.00	26.89	V
16604.650	48.69	-27.11	41.61	34.19	68.30	19.61	H
17698.050	50.88	-26.54	41.30	36.12	68.30	17.42	V

Channel 62

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
5352.283	67.41	-23.41	34.50	56.32	74.00	6.59	H
5355.402	68.19	-23.41	34.50	57.10	74.00	5.81	V
10620.100	42.92	-32.77	37.64	38.06	74.00	31.08	H
15929.800	46.78	-26.92	40.73	32.97	74.00	27.22	V
16759.200	49.94	-26.92	41.80	35.06	68.30	18.36	H
17291.050	50.65	-26.24	41.21	35.68	68.30	17.65	V

Channel 102

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
5465.425	65.73	-23.23	34.43	54.53	68.30	2.56	V
5469.887	66.00	-23.21	34.44	54.76	68.30	2.30	V
11019.957	44.80	-32.23	37.80	39.23	74.00	29.20	V
16529.850	47.15	-27.17	41.53	32.79	68.30	21.15	H
17174.450	50.16	-26.34	41.35	35.15	68.30	18.14	H
17264.650	50.30	-26.25	41.24	35.31	68.30	18.00	H

Channel 118

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
5543.200	63.14	-23.06	34.59	51.62	68.30	5.16	H
5640.000	63.96	-23.02	34.68	52.30	68.30	4.34	V
11180.000	43.49	-32.08	37.88	37.69	74.00	30.51	H
16770.200	46.97	-26.92	41.80	32.09	68.30	21.33	V
17174.450	50.16	-26.34	41.35	35.15	68.30	18.14	H
17325.150	50.18	-26.22	41.20	35.20	68.30	18.12	H

Channel 134

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
5725.200	61.70	-22.91	34.85	49.76	68.30	6.60	H
5726.650	60.92	-22.92	34.85	48.98	68.30	7.38	H
11340.050	46.09	-32.22	38.10	40.20	74.00	27.91	H
16398.950	48.58	-27.21	41.10	34.69	68.30	19.72	V
17010.000	45.83	-26.89	41.77	30.95	68.30	22.47	V
17325.150	50.51	-26.22	41.20	35.53	68.30	17.79	H

Channel 142

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
5660.400	65.48	-23.01	34.72	53.77	68.30	2.82	V
5761.800	64.42	-22.86	34.95	52.33	68.30	3.88	H
11419.800	42.66	-32.43	38.12	36.98	74.00	31.34	H
17129.900	48.06	-26.48	41.44	33.11	68.30	20.23	H
17285.000	51.12	-26.24	41.21	36.15	68.30	17.18	V
17349.350	50.29	-26.21	41.20	35.30	68.30	18.01	V

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Channel 36

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
5149.573	68.02	-23.72	34.40	57.34	74.00	5.98	H
5149.993	67.50	-23.72	34.40	56.83	74.00	6.50	H
10359.950	45.22	-32.13	37.46	39.89	68.30	23.08	H
15539.850	46.02	-28.05	40.08	33.99	74.00	27.98	H
16788.350	49.96	-26.89	41.80	35.04	68.30	18.34	V
17231.100	50.66	-26.27	41.27	35.66	68.30	17.64	H

Channel 40

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
5164.600	65.57	-23.71	34.43	54.85	68.30	2.73	V
5232.400	65.72	-23.71	34.56	54.86	68.30	2.58	H
10400.100	44.87	-32.04	37.50	39.41	68.30	23.43	H
15599.800	46.10	-27.77	40.20	33.67	74.00	27.90	V
16611.800	49.52	-27.08	41.62	34.97	68.30	18.78	H
17219.550	51.03	-26.27	41.28	36.02	68.30	17.27	H

Channel 48

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
5202.600	64.03	-23.70	34.51	53.22	68.30	4.27	V
5275.800	64.84	-23.58	34.65	53.77	68.30	3.45	H
10479.850	46.10	-32.38	37.58	40.90	68.30	22.20	V
15720.250	46.46	-27.26	40.34	33.38	74.00	27.54	V
16827.400	50.27	-26.82	41.80	35.28	68.30	18.03	H
17233.850	50.98	-26.27	41.27	35.97	68.30	17.32	H

Channel 52

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
5219.800	60.85	-23.69	34.54	50.00	68.30	7.45	V
5297.200	63.21	-23.51	34.69	52.02	68.30	5.09	H
10520.000	43.41	-32.56	37.60	38.37	68.30	24.89	V
15780.200	44.49	-27.18	40.46	31.21	74.00	29.51	V
16639.850	47.52	-26.97	41.68	32.81	68.30	20.78	H
17169.500	50.01	-26.35	41.36	35.00	68.30	18.29	H

Channel 56

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
5247.400	63.54	-23.68	34.59	52.63	68.30	4.76	H
5310.200	63.59	-23.47	34.66	52.40	68.30	4.71	H
10560.150	43.18	-32.64	37.60	38.22	68.30	25.12	V
15840.150	47.36	-27.01	40.58	33.79	74.00	26.64	H
16779.550	49.59	-26.90	41.80	34.70	68.30	18.71	H
17254.200	49.92	-26.26	41.25	34.93	68.30	18.38	V

Channel 64

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
5350.096	68.10	-23.41	34.50	57.01	74.00	5.90	V
5350.394	66.39	-23.41	34.50	55.30	74.00	7.61	V
10639.900	43.16	-32.92	37.68	38.40	74.00	30.84	H
15960.050	45.95	-26.97	40.76	32.15	74.00	28.05	V
16243.850	48.50	-27.46	40.94	35.02	68.30	19.80	V
17219.550	50.18	-26.27	41.28	35.17	68.30	18.12	H

Channel 100

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
5467.871	60.03	-23.22	34.44	48.81	68.30	8.27	H
5469.090	59.92	-23.21	34.44	48.70	68.30	8.38	H
11000.150	42.66	-32.22	37.80	37.08	74.00	31.34	V
16500.150	45.92	-27.17	41.50	31.58	68.30	22.38	H
17230.550	50.44	-26.27	41.27	35.44	68.30	17.86	V
17342.750	50.45	-26.21	41.20	35.47	68.30	17.85	V

Channel 116

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
5545.200	62.7	-23.1	34.6	51.20	68.3	5.6	H
5616.200	63.1	-23.0	34.6	51.45	68.3	5.2	V
11160.200	43.8	-32.1	37.9	38.01	74.0	30.2	V
16739.950	46.1	-26.9	41.8	31.24	68.3	22.2	V
17249.800	50.6	-26.3	41.3	35.65	68.3	17.7	H
17919.700	50.5	-26.1	41.2	35.37	68.3	17.8	H

Channel 140

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
5725.850	65.45	-22.91	34.85	53.51	68.30	2.85	H
5725.037	65.38	-22.91	34.85	53.44	68.30	2.92	V
11400.000	43.18	-32.42	38.10	37.50	74.00	30.82	H
16736.100	48.73	-26.89	41.80	33.81	68.30	19.57	H
17100.200	46.50	-26.58	41.50	31.58	68.30	21.80	H
17326.250	50.22	-26.22	41.20	35.24	68.30	18.08	V

Channel 144

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
5682.800	64.93	-22.93	34.77	53.09	68.30	3.37	H
5751.200	65.14	-22.87	34.90	53.11	68.30	3.16	H
11440.150	42.98	-32.46	38.14	37.30	74.00	31.02	V
17160.150	48.70	-26.38	41.38	33.71	68.30	19.60	V
17222.850	51.13	-26.27	41.28	36.12	68.30	17.17	V
17392.250	50.80	-26.21	41.20	35.81	68.30	17.50	V

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Channel 38

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
5147.595	68.28	-23.73	34.39	57.62	74.00	5.72	V
5149.993	67.09	-23.72	34.40	56.41	74.00	6.91	V
10379.750	43.94	-32.04	37.48	38.49	68.30	24.36	H
15570.100	47.11	-27.98	40.14	34.95	74.00	26.89	H
16749.300	49.62	-26.91	41.80	34.72	68.30	18.68	H
17255.300	51.02	-26.25	41.24	36.03	68.30	17.27	H

Channel 46

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
5165.600	66.83	-23.71	34.43	56.11	68.30	1.47	V
5282.800	64.92	-23.55	34.67	53.81	68.30	3.38	V
10460.050	44.56	-32.27	37.56	39.27	68.30	23.74	V
15690.000	46.69	-27.35	40.29	33.75	74.00	27.31	H
16671.200	49.77	-26.85	41.74	34.88	68.30	18.53	H
17225.600	51.08	-26.27	41.27	36.08	68.30	17.22	V

Channel 54

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
5200.200	64.01	-23.70	34.50	53.21	74.00	9.99	V
5325.400	64.93	-23.44	34.60	53.77	74.00	9.07	V
10539.800	42.59	-32.65	37.60	37.64	68.30	25.71	H
15809.900	46.92	-27.11	40.52	33.50	74.00	27.08	H
16728.400	49.88	-26.88	41.80	34.95	68.30	18.42	V
17280.050	50.28	-26.24	41.22	35.30	68.30	18.02	H

Channel 62

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
5350.056	68.23	-23.41	34.50	57.14	74.00	5.77	V
5352.635	68.65	-23.41	34.50	57.56	74.00	5.35	H
10620.100	43.27	-32.77	37.64	38.41	74.00	30.73	V
15929.800	46.52	-26.92	40.73	32.71	74.00	27.48	H
16734.450	49.07	-26.88	41.80	34.15	68.30	19.23	H
17285.550	50.57	-26.24	41.21	35.60	68.30	17.73	V

Channel 102

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
5465.256	66.80	-23.23	34.43	55.60	68.30	1.50	H
5469.868	65.24	-23.21	34.44	54.01	68.30	3.06	V
11019.950	43.99	-32.23	37.80	38.43	74.00	30.01	V
16529.850	46.12	-27.17	41.53	31.75	68.30	22.18	H
17326.250	50.23	-26.22	41.20	35.25	68.30	18.07	H
17211.300	50.55	-26.28	41.29	35.54	68.30	17.75	H

Channel 118

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
5544.600	64.54	-23.06	34.59	53.00	68.30	3.76	V
5633.000	65.59	-23.02	34.67	53.94	68.30	2.71	H
11180.000	43.61	-32.08	37.88	37.81	74.00	30.39	V
16770.200	47.40	-26.92	41.80	32.52	68.30	20.90	V
17201.400	51.28	-26.28	41.30	36.27	68.30	17.02	V
17539.100	50.40	-26.41	41.20	35.60	68.30	17.90	V

Channel 134

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
5727.325	61.89	-22.92	34.85	49.95	68.30	6.41	V
5729.887	61.64	-22.93	34.86	49.71	68.30	6.66	V
11340.050	44.46	-32.22	38.10	38.58	74.00	29.54	H
17010.000	48.21	-26.89	41.77	33.32	68.30	20.09	H
17221.750	51.03	-26.27	41.28	36.02	68.30	17.27	V
17426.350	50.57	-26.22	41.20	35.59	68.30	17.73	V

Channel 142

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
5660.200	62.79	-23.01	34.72	51.08	68.30	5.51	H
5757.800	64.65	-22.85	34.93	52.57	68.30	3.65	V
11419.800	42.61	-32.43	38.12	36.93	74.00	31.39	H
17189.300	50.52	-26.29	41.32	35.49	68.30	17.78	V
17283.350	51.38	-26.24	41.22	36.40	68.30	16.92	V
17129.900	47.70	-26.48	41.44	32.74	68.30	20.60	V

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Channel 42

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
5142.712	63.87	-23.73	34.37	53.23	74.00	10.13	H
5147.770	63.84	-23.73	34.39	53.17	74.00	10.16	V
10419.900	43.54	-32.10	37.52	38.11	68.30	24.76	V
15630.050	46.92	-27.57	40.23	34.25	68.30	21.38	H
16824.100	49.77	-26.82	41.80	34.80	68.30	18.52	H
17706.300	50.41	-26.53	41.30	35.64	68.30	17.89	H

Channel 58

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
5353.229	69.21	-23.41	34.50	58.12	74.00	4.79	H
5355.132	68.13	-23.41	34.50	57.04	74.00	5.87	V
10579.950	42.30	-32.61	37.60	37.31	68.30	26.00	H
15869.500	46.44	-26.91	40.64	32.71	68.30	21.86	H
16651.400	48.67	-26.93	41.70	33.90	68.30	19.63	V
17288.830	50.30	-26.24	41.21	35.33	68.30	18.00	H

Channel 106

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
5464.909	65.88	-23.23	34.43	54.68	68.30	2.42	H
5467.731	65.79	-23.22	34.44	54.57	68.30	2.51	V
11060.100	45.95	-32.07	37.80	40.22	74.00	28.05	V
16589.800	48.66	-27.14	41.59	34.20	68.30	19.64	V
17245.950	50.50	-26.26	41.25	35.51	68.30	17.80	V
17444.500	50.41	-26.23	41.20	35.44	68.30	17.88	V

Channel 122

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
5765.875	61.81	-22.86	34.96	49.71	68.30	6.49	H
5797.238	61.88	-22.90	35.09	49.69	68.30	6.42	H
11380.200	43.42	-32.41	38.10	37.73	68.30	24.88	H
17069.950	46.99	-26.70	41.59	32.10	68.30	21.30	H
17269.050	50.23	-26.25	41.23	35.25	68.30	18.07	H
17651.300	48.84	-26.63	41.25	34.21	68.30	19.46	H

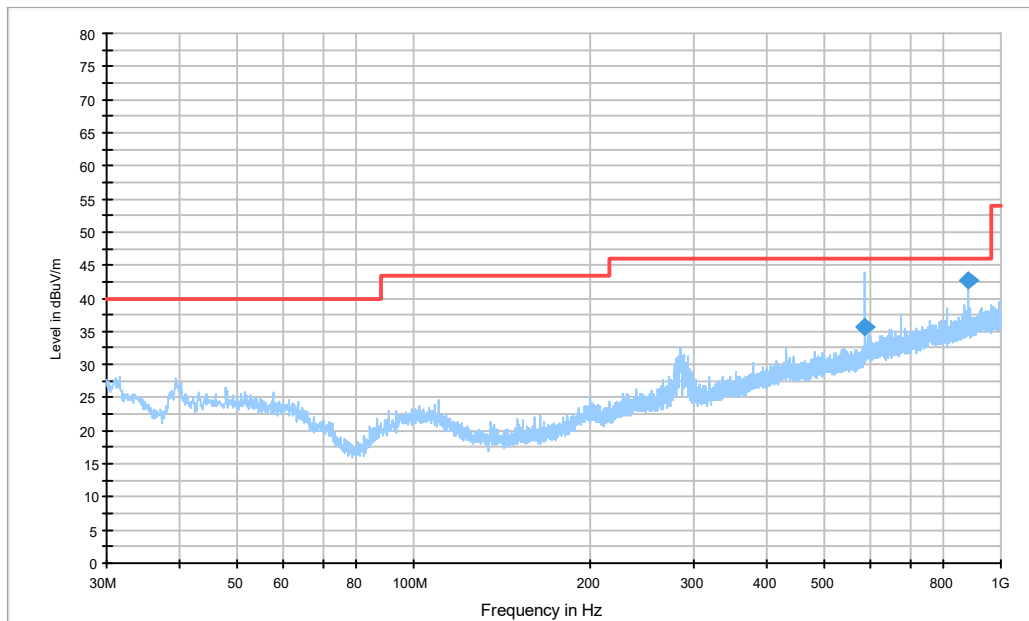
Channel 138

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
5601.800	65.26	-22.99	34.60	53.64	68.30	3.04	H
5768.400	66.06	-22.87	34.97	53.95	68.30	2.24	H
11380.200	43.88	-32.41	38.10	38.19	74.00	30.12	H
17069.950	48.34	-26.70	41.59	33.45	68.30	19.96	V
17243.200	52.84	-26.26	41.26	37.84	68.30	15.46	V
17404.900	50.77	-26.22	41.20	35.78	68.30	17.53	H

Note:

1. The spurious emission above 18G is noise only.

WOSRT CASE BELOW 1GHz



Final_Result

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Polarization	Azimuth (deg)
588.0410	35.6	46.0	10.4	101.0	V	102.0
882.0480	42.8	46.0	3.2	100.0	H	206.0

BELOW 30MHz

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

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

Method of Measurement:

See Clause 6.2 of ANSI C63.10-2013 specifically.

See Clause 4 and Clause 5 of ANSI C63.10-2013 generally.

The conducted emissions from the AC port of the EUT are measured in a shielding room. The EUT is connected to a Line Impedance Stabilization Network (LISN). An overview sweep with peak detection was performed. The measurements were performed with a quasi-peak detector and if required, an average detector.

The conducted emission measurements were made with the following detector of the test receiver: Quasi-Peak / Average Detector.

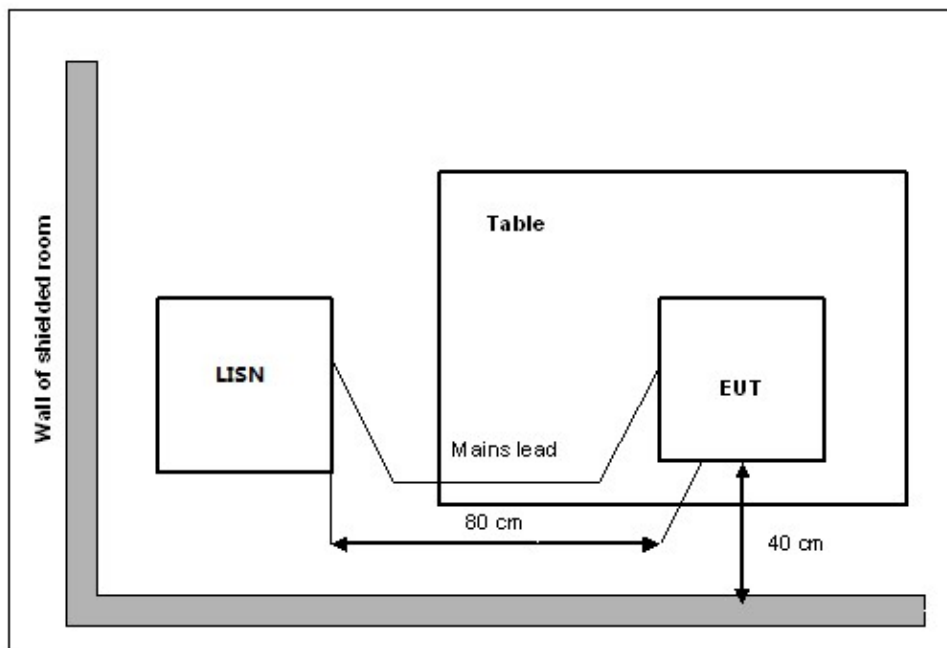
The measurement bandwidth is:

Frequency of Emission (MHz)	RBW/IF bandwidth
0.15-30	9kHz

Test Condition:

Voltage (V)	Frequency (Hz)
120	60

Measurement Setup



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.58	Fig.59	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.58	Fig.59	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:

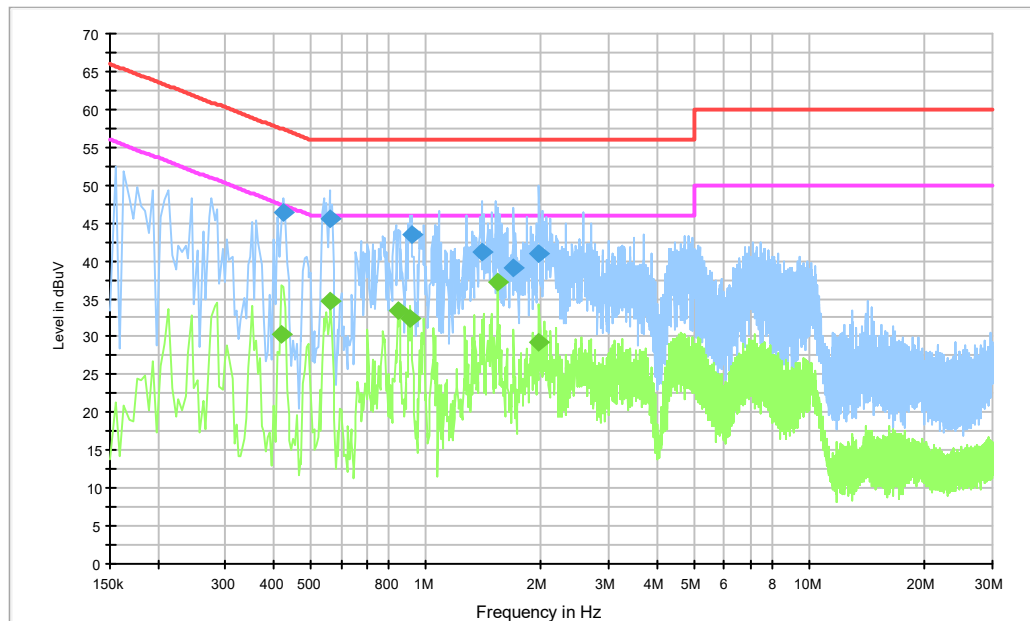


Fig.58 AC Powerline Conducted Emission-Traffic

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)
0.424500	46.4	2000.	9.000	N	19.8	11.0	57.4
0.559500	45.6	2000.	9.000	N	19.8	10.4	56.0
0.919500	43.6	2000.	9.000	N	19.7	12.4	56.0
1.401000	41.2	2000.	9.000	N	19.6	14.8	56.0
1.698000	39.1	2000.	9.000	N	19.6	16.9	56.0
1.977000	41.0	2000.	9.000	N	19.6	15.0	56.0

Final Result 2

Frequency (MHz)	Average (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.420000	30.4	2000.0	9.000	N	19.8	17.1	47.4
0.564000	34.6	2000.0	9.000	L1	19.8	11.4	46.0
0.843000	33.4	2000.0	9.000	L1	19.7	12.6	46.0
0.910500	32.4	2000.0	9.000	L1	19.7	13.6	46.0
1.536000	37.1	2000.0	9.000	L1	19.6	8.9	46.0
1.977000	29.3	2000.0	9.000	L1	19.6	16.7	46.0

Idle

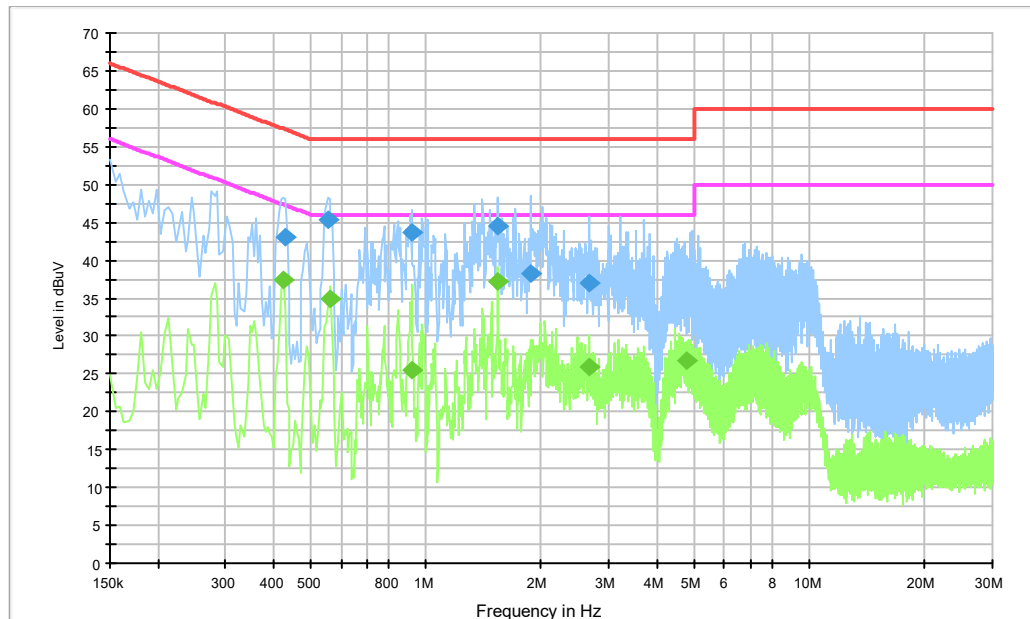


Fig.59 AC Powerline Conducted Emission-Idle

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)
0.429000	43.0	2000.	9.000	N	19.8	14.3	57.3
0.555000	45.4	2000.	9.000	N	19.8	10.6	56.0
0.919500	43.8	2000.	9.000	L1	19.7	12.2	56.0
1.536000	44.4	2000.	9.000	L1	19.6	11.6	56.0
1.882500	38.3	2000.	9.000	N	19.6	17.7	56.0
2.665500	37.0	2000.	9.000	N	19.6	19.0	56.0

Final Result 2

Frequency (MHz)	Average (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.424500	37.4	2000.0	9.000	L1	19.8	9.9	47.4
0.564000	34.8	2000.0	9.000	L1	19.8	11.2	46.0
0.919500	25.4	2000.0	9.000	N	19.7	20.6	46.0
1.536000	37.3	2000.0	9.000	N	19.6	8.7	46.0
2.665500	25.8	2000.0	9.000	L1	19.6	20.2	46.0
4.807500	26.8	2000.0	9.000	L1	19.7	19.2	46.0

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:

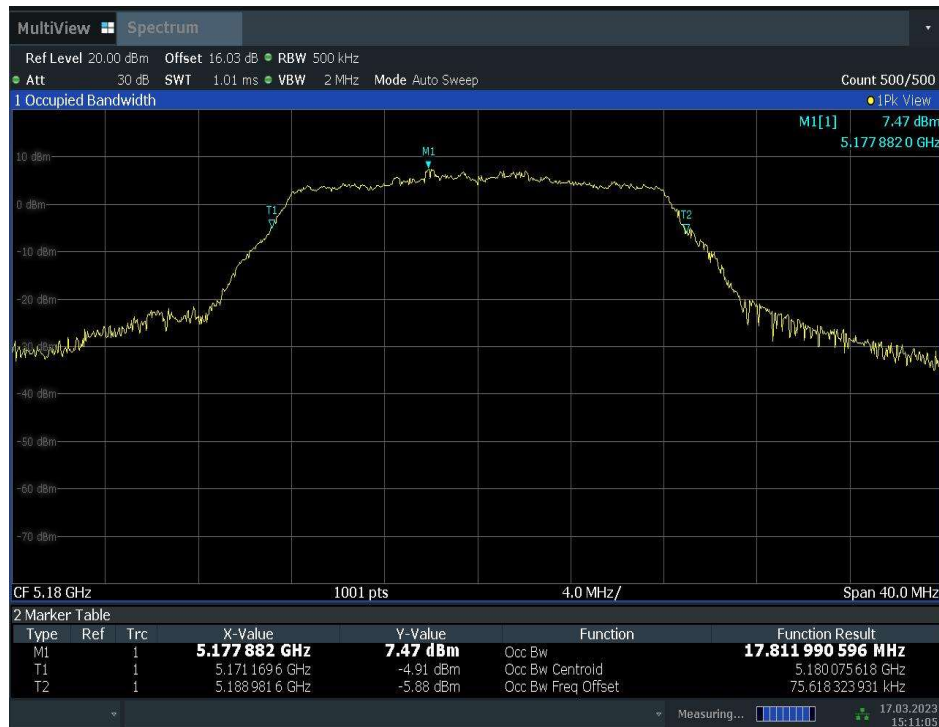
Measurement Uncertainty	60.80Hz
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Measurement Result:

Mode	Frequency	99% Occupied bandwidth (MHz)		conclusion
802.11a	5180 MHz	Fig.60	17.81	P
	5200 MHz	Fig.61	17.67	P
	5240 MHz	Fig.62	17.97	P
802.11ac HT20	5180 MHz	Fig.63	18.41	P
	5200 MHz	Fig.64	18.35	P
	5240 MHz	Fig.65	18.39	P
802.11n HT40	5190 MHz	Fig.66	36.67	P
	5230 MHz	Fig.67	36.77	P
802.11ac HT80	5210 MHz	Fig.68	76.36	P

Conclusion: PASS

Test graphs as below:



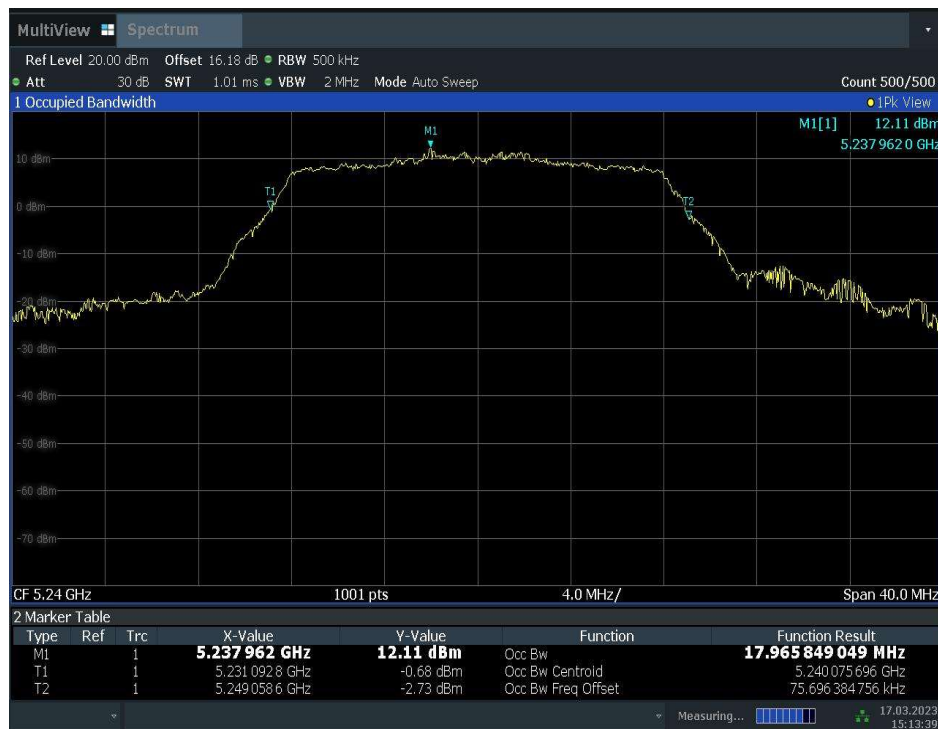
15:11:06 17.03.2023

Fig.60 99% Occupied bandwidth (802.11a, 5180MHz)



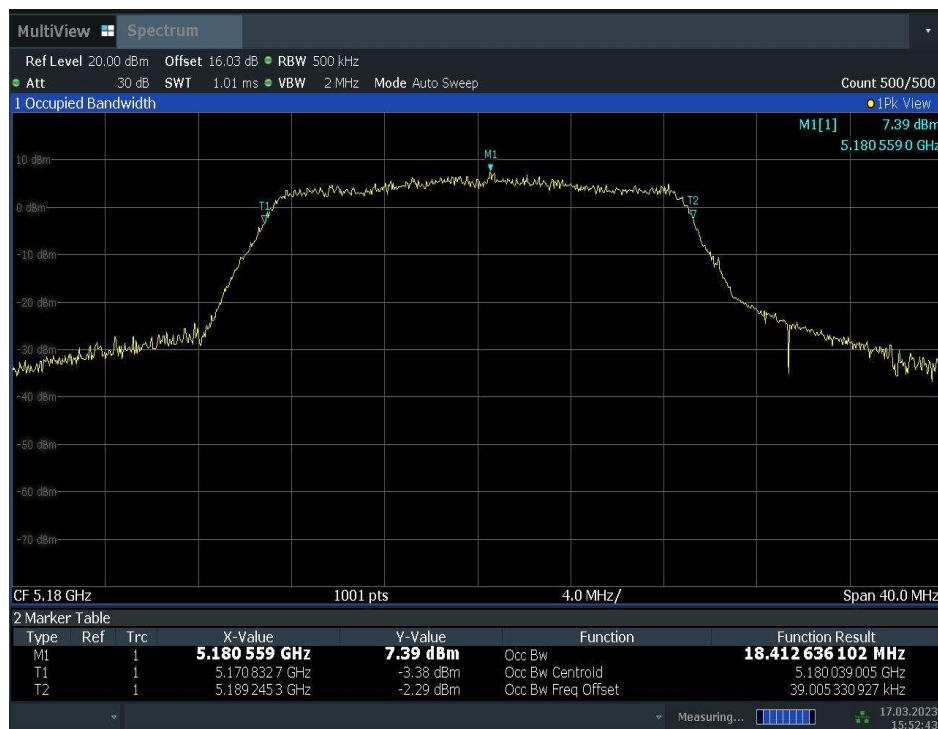
15:11:53 17.03.2023

Fig.61 99% Occupied bandwidth (802.11a, 5200MHz)



15:13:40 17.03.2023

Fig.62 99% Occupied bandwidth (802.11a, 5240MHz)



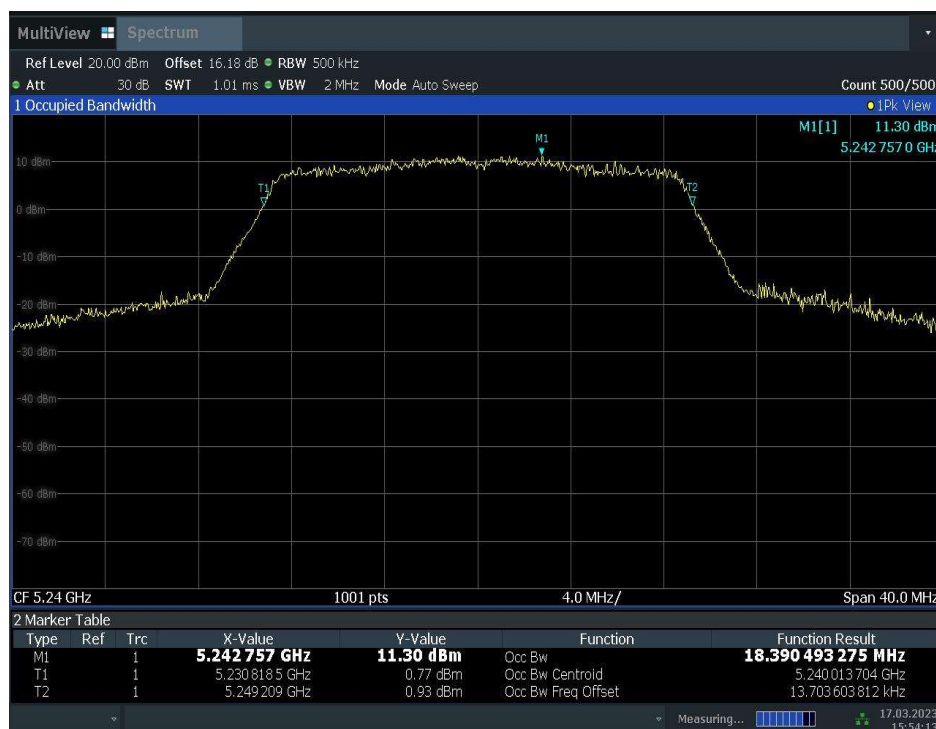
15:52:44 17.03.2023

Fig.63 99% Occupied bandwidth (802.11ac-HT20, 5180MHz)



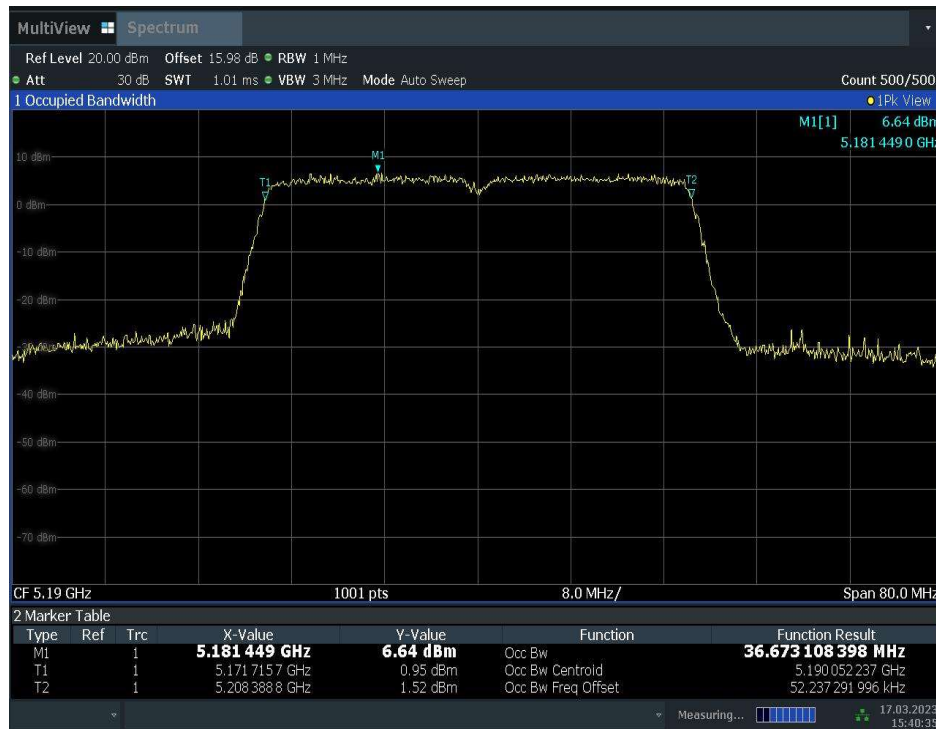
15:53:27 17.03.2023

Fig.64 99% Occupied bandwidth (802.11ac-HT20, 5200MHz)



15:54:14 17.03.2023

Fig.65 99% Occupied bandwidth (802.11ac-HT20, 5240MHz)



15:40:36 17.03.2023

Fig.66 99% Occupied bandwidth (802.11n-HT40, 5190MHz)



15:41:35 17.03.2023

Fig.67 99% Occupied bandwidth (802.11n-HT40, 5230MHz)

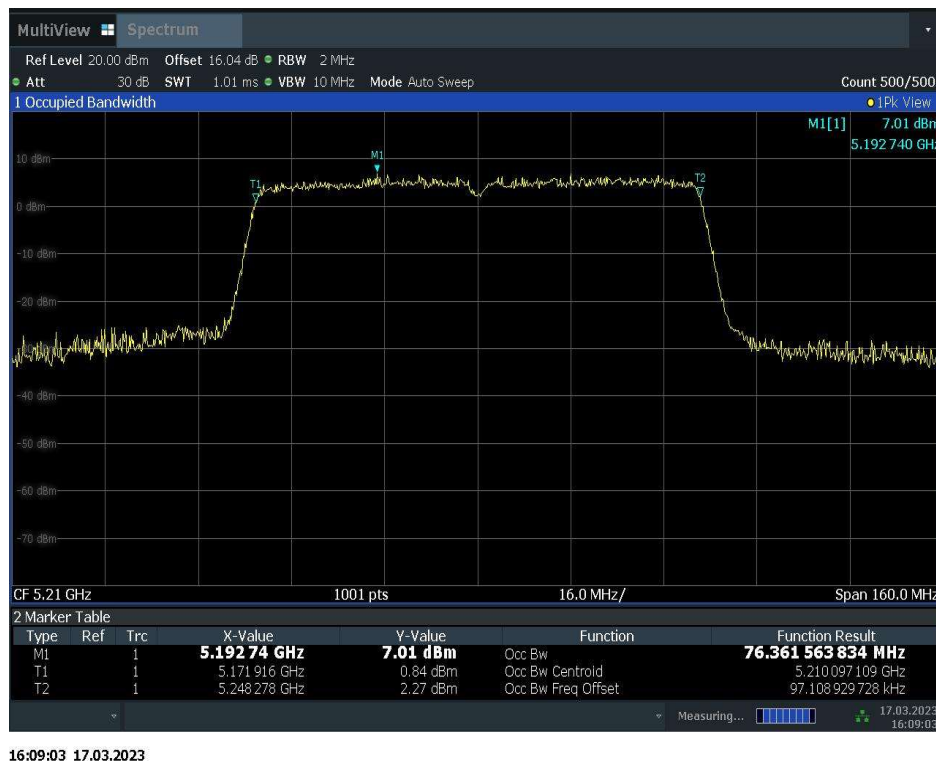


Fig.68 99% Occupied bandwidth (802.11ac-HT80, 5210MHz)

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 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 ***