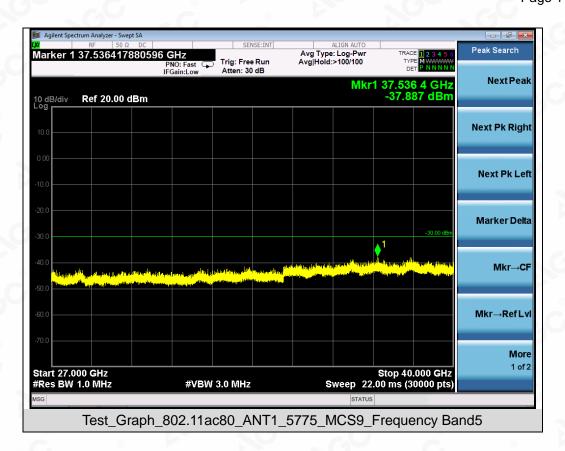
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11. RADIATED EMISSION

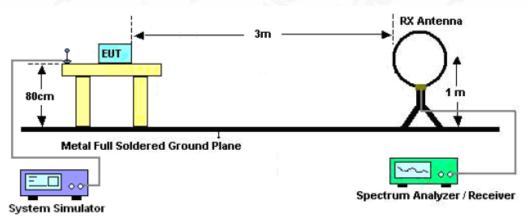
11.1. MEASUREMENT PROCEDURE

- 1. The EUT was placed on the top of the turntable 0.8 or 1.5 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
- 2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
- 3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
- 4. For each suspected emission, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
- Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
- 6. For emissions above 1GHz, use 1MHz RBW and 3M VBW for peak reading. Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
- 7. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum values.
- 8.If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
- 9. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
- 10. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High Low scan is not required in this case.

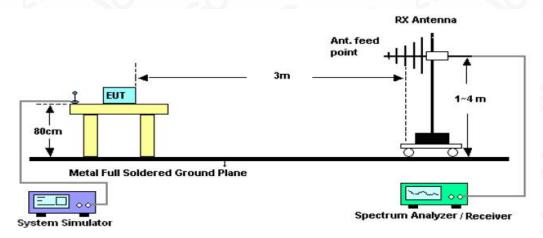


11.2. TEST SETUP

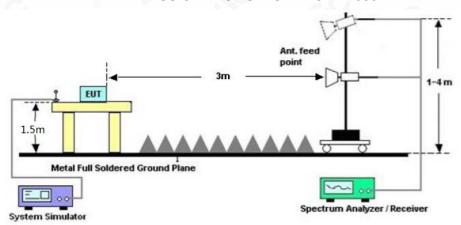
Radiated Emission Test-Setup Frequency Below 30MHz



RADIATED EMISSION TEST SETUP 30MHz-1000MHz



RADIATED EMISSION TEST SETUP ABOVE 1000MHz



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11.3. LIMITS AND MEASUREMENT RESULT

15.209(a) Limit in the below table has to be followed

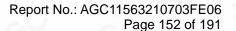
Frequencies (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(kHz)	300
0.490~1.705	24000/F(kHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

Note: All modes were tested for restricted band radiated emission, the test records reported below are the worst result compared to other modes.

11.4. TEST RESULT

Radiated emission below 30MHz

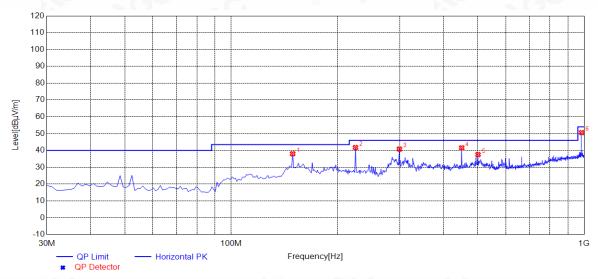
The amplitude of spurious emissions from 9kHz to 30MHz which are attenuated more than 20 dB below the permissible value need not be reported.





Radiated emission from 30MHz to 1000MHz

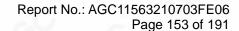
EUT	Intelligent conference control tablet	Model Name	CP100
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5180MHz	Antenna	Horizontal



			10.1					
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	149.3100	38.04	14.88	43.50	5.46	100	189	Horizontal
2	224.9700	41.72	13.66	46.00	4.28	100	279	Horizontal
3	299.6600	40.80	15.91	46.00	5.20	100	324	Horizontal
4	450.0100	41.54	20.99	46.00	4.46	100	176	Horizontal
5	500.4500	37.53	22.19	46.00	8.47	100	152	Horizontal
6	984.4800	50.59	31.09	54.00	3.41	100	96	Horizontal

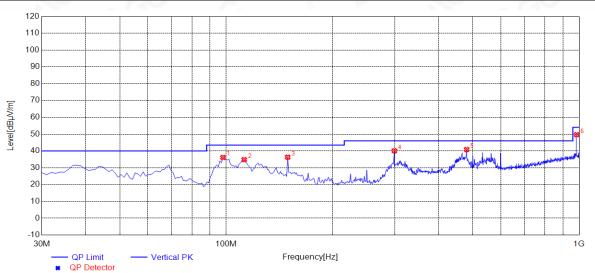
RESULT: PASS

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EUT	Intelligent conference control tablet	Model Name	CP100
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5180MHz	Antenna	Vertical



NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	97.9000	36.14	10.51	43.50	7.36	100	86	Vertical
2	112.4500	34.79	12.68	43.50	8.71	100	293	Vertical
3	149.3100	36.29	14.88	43.50	7.21	100	5	Vertical
4	299.6600	40.06	15.91	46.00	5.94	100	235	Vertical
5	480.0800	40.83	21.72	46.00	5.17	100	94	Vertical
6	984.4800	49.66	31.09	54.00	4.34	100	55	Vertical

Note: All test channels had been tested. The 802.11a20 at 5180MHz is the worst case and recorded in the test report.

Factor = Antenna Factor + Cable loss - Amplifier gain, Margin= Limit-Level.

The "Factor" value can be calculated automatically by software of measurement system.



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Radiated emission above 1GHz

EUT	Intelligent conference control tablet	Model Name	CP100
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5180MHz	Antenna	Horizontal/Vertical

RADIATED EMISSION ABOVE 1GHZ-Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
10360.042	47.56	9.14	56.70	68.20	-11.50	peak
15540.063	41.97	10.22	52.19	74.00	-21.81	peak
15540.063	32.54	10.22	42.76	54.00	-11.24	AVG

RADIATED EMISSION ABOVE 1GHZ-Vertical

				(89		
Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
10360.042	48.53	9.14 [®]	57.67	68.20	-10.53	peak
15540.063	41.29	10.22	51.51	74.00	-22.49	peak
15540.063	32.72	10.22	42.94	54.00	-11.06	AVG
Remark:	8					8
actor = Anten	na Factor + Cable	Loss – Pre-a	mplifier.			



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EUT	Intelligent conference control tablet	Model Name	CP100
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5200MHz	Antenna	Horizontal/Vertical

RADIATED EMISSION ABOVE 1GHZ-Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Time
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	- Value Type
10400.042	48.67	9.14	57.81	68.20	-10.39	peak
15600.063	43.18	10.22	53.40	74.00	-20.60	peak
15600.063	32.94	10.22	43.16	54.00	-10.84	AVG
Remark:	02.04	10.22	40.10	04.00	10.04	7110

RADIATED EMISSION ABOVE 1GHZ-Vertical

Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
46.23	9.14	55.37	68.20	-12.83	peak
40.87	10.22	51.09	74.00	-22.91	peak
31.21	10.22	41.43	54.00	-12.57	AVG
	60		8		
na Factor + Cable	Loss - Pre-ar	mplifier.		0	
	(dBµV) 46.23 40.87 31.21	(dBµV) (dB) 46.23 9.14 40.87 10.22 31.21 10.22	(dBμV) (dB) (dBμV/m) 46.23 9.14 55.37 40.87 10.22 51.09	(dBμV) (dB) (dBμV/m) (dBμV/m) 46.23 9.14 55.37 68.20 40.87 10.22 51.09 74.00 31.21 10.22 41.43 54.00	(dBμV) (dB) (dBμV/m) (dBμV/m) (dBμV/m) 46.23 9.14 55.37 68.20 -12.83 40.87 10.22 51.09 74.00 -22.91 31.21 10.22 41.43 54.00 -12.57



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EUT	Intelligent conference control tablet	Model Name	CP100
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5240MHz	Antenna	Horizontal/Vertical

RADIATED EMISSION ABOVE 1GHZ-Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
10480.042	48.67	9.27	57.94	68.20	-10.26	peak
15720.063	42.64	10.38	53.02	74.00	-20.98	peak
15720.063	32.98	10.38	43.36	54.00	-10.64	AVG
Remark:		9	-0			
actor = Anter	nna Factor + Cable	Loss – Pre-	amplifier.			

RADIATED EMISSION ABOVE 1GHZ-Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
10480.042	46.53	9.27	55.80	68.20	-12.40	peak
15720.063	42.35	10.38	52.73	74.00	-21.27	peak
15720.063	57.00	10.38	67.38	54.00	13.38	AVG
Remark:				®		
Factor = Anter	nna Factor + Cable	Loss - Pre-ar	mplifier.		(3)	



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EUT	Intelligent conference control tablet	Model Name	CP100
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5260MHz	Antenna	Horizontal/Vertical

RADIATED EMISSION ABOVE 1GHZ-Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
10520.044	48.56	9.29	57.85	68.20	-10.35	peak
15780.066	42.38	10.42	52.80	74.00	-21.20	peak
15780.066	32.57	10.42	42.99	54.00	-11.01	AVG
Remark:						
actor = Anter	nna Factor + Cable	Loss – Pre-	amplifier.			

RADIATED EMISSION ABOVE 1GHZ-Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
10520.044	47.59	9.29	56.88	68.20	-11.32	peak
15780.066	32.61	10.42	43.03	74.00	-30.97	peak
15780.066	32.57	10.42	42.99	54.00	-11.01	AVG
Remark:				®		
Factor = Anter	nna Factor + Cable	Loss - Pre-ar	mplifier.		®	



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EUT	Intelligent conference control tablet	Model Name	CP100
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5300MHz	Antenna	Horizontal/Vertical

RADIATED EMISSION ABOVE 1GHZ-Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
10600.044	47.59	9.31	56.90	74.00	-17.10	peak
10600.044	38.37	9.31	47.68	54.00	-6.32	AVG
15900.066	42.97	10.44	53.41	74.00	-20.59	peak
15900.066	33.21	10.44	43.65	54.00	-10.35	AVG
emark:	8				8	
actor = Anter	na Factor + Cable	Loss - Pre-	amplifier			(8)

RADIATED EMISSION ABOVE 1GHZ-Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
10600.044	48.49	9.31	57.80	74.00	-16.20	peak
10600.044	37.52	9.31	46.83	54.00	-7.17	AVG
15780.066	43.74	10.44	54.18	74.00	-19.82	peak
15780.066	34.19	10.44	44.63	54.00	-9.37	AVG
Remark:		8				
actor = Anten	na Factor + Cabl	e Loss – Pre-ar	mplifier.			



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EUT	Intelligent conference control tablet	Model Name	CP100
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5320MHz	Antenna	Horizontal/Vertical

RADIATED EMISSION ABOVE 1GHZ-Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	\/alua Typa
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
10640.044	46.25	9.35	55.60	74.00	-18.40	peak
10640.044	37.84	9.35	47.19	54.00	-6.81	AVG
15960.066	40.13	10.46	50.59	74.00	-23.41	peak
15960.066	31.57	10.46	42.03	54.00	-11.97	AVG
Remark:			@			
actor = Anter	na Factor + Cabl	e Loss – Pre-	amplifier.			

RADIATED EMISSION ABOVE 1GHZ-Vertical

M (D I					- 100
Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
48.23	9.35	57.58	74.00	-16.42	peak
39.54	9.35	48.89	54.00	-5.11	AVG
42.41	10.46	52.87	74.00	-21.13	peak
32.46	10.46	42.92	54.00	-11.08	AVG
a Factor + Cable	Loss - Pre-	-amplifier	(0)		
	42.41 32.46	42.41 10.46 32.46 10.46	42.41 10.46 52.87 32.46 10.46 42.92	42.41 10.46 52.87 74.00 32.46 10.46 42.92 54.00	42.41 10.46 52.87 74.00 -21.13

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EUT	Intelligent conference control tablet	Model Name	CP100
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5500MHz	Antenna	Horizontal/Vertical

RADIATED EMISSION ABOVE 1GHZ-Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
11000.044	48.56	9.37	57.93	74.00	-16.07	peak
11000.044	39.57	9.37	48.94	54.00	-5.06	AVG
16500.066	43.15	10.48	53.63	68.20	-14.57	peak
Remark:			-0			
actor = Anter	nna Factor + Cable	Loss – Pre-	-amplifier.			

RADIATED EMISSION ABOVE 1GHZ-Vertical

Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
48.52	9.37	57.89	74.00	-16.11	peak
40.57	9.37	49.94	54.00	-4.06	AVG
42.16	10.48	52.64	68.20	-15.56	peak
			(S)		
na Factor + Cabl	e Loss – Pre-ar	mplifier.		8	
	(dBµV) 48.52 40.57 42.16	(dBµV) (dB) 48.52 9.37 40.57 9.37 42.16 10.48	(dBμV) (dB) (dBμV/m) 48.52 9.37 57.89 40.57 9.37 49.94	(dBμV) (dB) (dBμV/m) (dBμV/m) 48.52 9.37 57.89 74.00 40.57 9.37 49.94 54.00 42.16 10.48 52.64 68.20	(dBμV) (dB) (dBμV/m) (dBμV/m) (dBμV/m) 48.52 9.37 57.89 74.00 -16.11 40.57 9.37 49.94 54.00 -4.06 42.16 10.48 52.64 68.20 -15.56



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EUT	Intelligent conference control tablet	Model Name	CP100
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5600MHz	Antenna	Horizontal/Vertical

RADIATED EMISSION ABOVE 1GHZ-Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
11200.044	48.34	9.38	57.72	74.00	-16.28	peak
11200.044	40.24	9.38	49.62	54.00	-4.38	AVG
16800.066	43.97	10.49	54.46	68.20	-13.74	peak
emark:	0				8	

RADIATED EMISSION ABOVE 1GHZ-Vertical

Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
48.25	9.38	57.63	74.00	-16.37	peak
40.23	9.38	49.61	54.00	-4.39	AVG
42.37	10.49	52.86	68.20	-15.34	peak
		0	.0	8	
na Factor + Cable	e Loss – Pre-ai	mplifier.			
	(dBµV) 48.25 40.23 42.37	(dBµV) (dB) 48.25 9.38 40.23 9.38 42.37 10.49	(dBμV) (dB) (dBμV/m) 48.25 9.38 57.63 40.23 9.38 49.61	(dBμV) (dB) (dBμV/m) (dBμV/m) 48.25 9.38 57.63 74.00 40.23 9.38 49.61 54.00 42.37 10.49 52.86 68.20	(dBμV) (dB) (dBμV/m) (dBμV/m) (dBμV/m) 48.25 9.38 57.63 74.00 -16.37 40.23 9.38 49.61 54.00 -4.39 42.37 10.49 52.86 68.20 -15.34



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EUT	Intelligent conference control tablet	Model Name	CP100
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5700MHz	Antenna	Horizontal/Vertical

RADIATED EMISSION ABOVE 1GHZ-Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
11400.044	42.15	9.39	51.54	74.00	-22.46	peak
11400.044	37.54	9.39	46.93	54.00	-7.07	AVG
17100.066	39.66	10.49	50.15	68.20	-18.05	peak
Remark:			- 0	9		
	nna Factor + Cable	Loss – Pre-	amplifier.			

RADIATED EMISSION ABOVE 1GHZ-Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
11400.044	49.57	9.39	58.96	74.00	-15.04	peak
11400.044	40.34	9.39	49.73	54.00	-4.27	AVG
17100.066	42.15	10.49	52.64	68.20	-15.56	peak
Remark:				®		
Factor = Anter	nna Factor + Cable	Loss - Pre-ar	mplifier.		®	



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EUT	Intelligent conference control tablet	Model Name	CP100
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5745MHz	Antenna	Horizontal/Vertical

RADIATED EMISSION ABOVE 1GHZ-Horizontal

_	M D E		T =	1 1 1		
Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
11490.042	46.23	9.42	55.65	74.00	-18.35	peak
11490.042	37.54	9.42	46.96	54.00	-7.04	AVG
17235.063	40.15	10.51	50.66	68.20	-17.54	peak
Remark:			-0	3)		

RADIATED EMISSION ABOVE 1GHZ-Vertical

Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
45.16	9.42	54.58	74.00	-19.42	peak
36.57	9.42	45.99	54.00	-8.01	AVG
40.28	10.51	50.79	68.20	-17.41	peak
			8		
na Factor + Cable	Loss – Pre-ar	mplifier.		®	
	(dBµV) 45.16 36.57 40.28	(dBµV) (dB) 45.16 9.42 36.57 9.42 40.28 10.51	(dBμV) (dB) (dBμV/m) 45.16 9.42 54.58 36.57 9.42 45.99	(dBμV) (dB) (dBμV/m) (dBμV/m) 45.16 9.42 54.58 74.00 36.57 9.42 45.99 54.00 40.28 10.51 50.79 68.20	(dBμV) (dB) (dBμV/m) (dBμV/m) (dBμV/m) 45.16 9.42 54.58 74.00 -19.42 36.57 9.42 45.99 54.00 -8.01 40.28 10.51 50.79 68.20 -17.41



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/Inspection The test results

EUT	Intelligent conference control tablet	Model Name	CP100
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5785MHz	Antenna	Horizontal/Vertical

RADIATED EMISSION ABOVE 1GHZ-Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
11570.042	46.25	9.42	55.67	74.00	-18.33	peak
11570.042	35.74	9.42	45.16	54.00	-8.84	AVG
17355.063	41.97	10.51	52.48	68.20	-15.72	peak

RADIATED EMISSION ABOVE 1GHZ-Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
11570.042	47.59	9.42	57.01	74.00	-16.99	peak
11570.042	37.84	9.42	47.26	54.00	-6.74	AVG
17355.063	42.16	10.51	52.67	68.20	-15.53	peak
Remark:				8		
actor = Anter	na Factor + Cable	Loss – Pre-ar	mplifier.		8	



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he test results

EUT	Intelligent conference control tablet	Model Name	CP100
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5825MHz	Antenna	Horizontal/Vertical

RADIATED EMISSION ABOVE 1GHZ-Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
11650.042	48.63	9.62	52.98	74.00	-21.02	peak
11650.042	39.54	9.62	45.05	54.00	-8.95	AVG
17475.063	42.18	10.75	47.61	68.20	-26.39	peak

RADIATED EMISSION ABOVE 1GHZ-Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
11650.042	48.24	9.62	53.55	74.00	-20.45	peak
11650.042	37.59	9.62	47.64	54.00	-6.36	AVG
17475.063	42.14	10.75	48.61	68.20	-25.39	peak
Remark:						
Factor = Anter	na Factor + Cable	Loss - Pre-ar	mplifier.		(8)	

Note: All test channels had been tested. The 802.11a20 is the worst case and recorded in the test report.

Other frequencies radiation emission from 1GHz to 40GHz at least have 20dB margin and not recorded in the test report.

Factor = Antenna Factor + Cable loss - Amplifier gain, Margin= Limit-Level.

The "Factor" value can be calculated automatically by software of measurement system.

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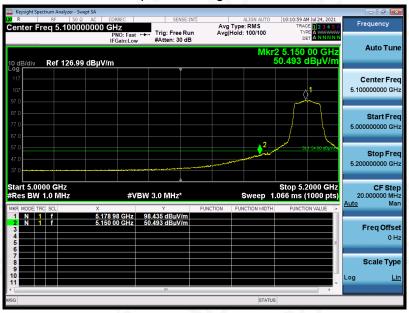
Test result for band edge emission at restricted bands

EUT	Intelligent conference control tablet	Model Name	CP100
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5180MHz	Antenna	Horizontal

Test Graph for Peak Measurement



Test Graph for Average Measurement



RESULT: PASS

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EUT	Intelligent conference control tablet	Model Name	CP100
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5180MHz	Antenna	Vertical

Test Graph for Peak Measurement



Test Graph for Average Measurement





EUT	Intelligent conference control tablet	Model Name	CP100
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5320MHz	Antenna	Horizontal

Test Graph for Peak Measurement



Test Graph for Average Measurement



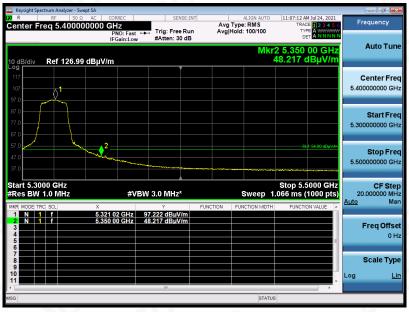


EUT	Intelligent conference control tablet	Model Name	CP100
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5320MHz	Antenna	Vertical

Test Graph for Peak Measurement



Test Graph for Average Measurement



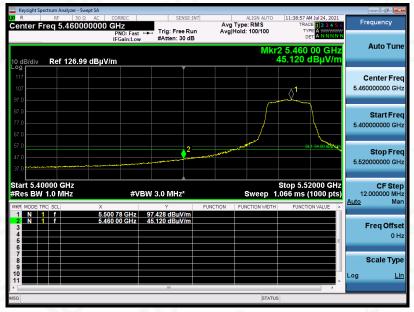


EUT	Intelligent conference control tablet	Model Name	CP100
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5500MHz	Antenna	Horizontal

Test Graph for Peak Measurement



Test Graph for Average Measurement





EUT	Intelligent conference control tablet	Model Name	CP100
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5500MHz	Antenna	Vertical

Test Graph for Peak Measurement



Test Graph for Average Measurement



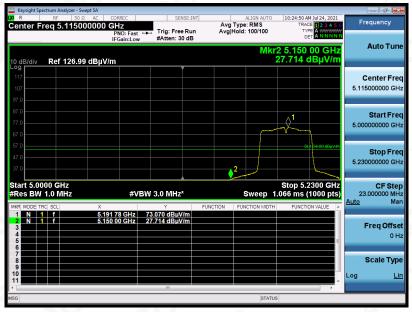


EUT	Intelligent conference control tablet	Model Name	CP100
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n40 5190MHz	Antenna	Horizontal

Test Graph for Peak Measurement



Test Graph for Average Measurement





EUT	Intelligent conference control tablet	Model Name	CP100
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n40 5190MHz	Antenna	Vertical

Test Graph for Peak Measurement



Test Graph for Average Measurement





EUT	Intelligent conference control tablet	Model Name	CP100
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n40 5310MHz	Antenna	Horizontal

Test Graph for Peak Measurement



Test Graph for Average Measurement



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EUT	Intelligent conference control tablet	Model Name	CP100
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n40 5310MHz	Antenna	Vertical

Test Graph for Peak Measurement



Test Graph for Average Measurement



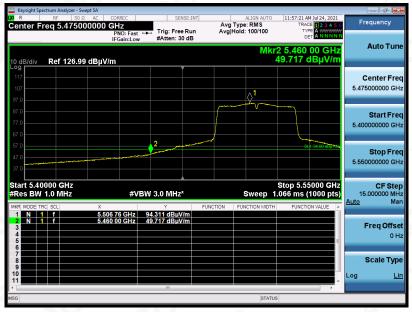


EUT	Intelligent conference control tablet	Model Name	CP100
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n40 5510MHz	Antenna	Horizontal

Test Graph for Peak Measurement



Test Graph for Average Measurement





EUT	Intelligent conference control tablet	Model Name	CP100
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n40 5510MHz	Antenna	Vertical

Test Graph for Peak Measurement



Test Graph for Average Measurement



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EUT	Intelligent conference control tablet	Model Name	CP100
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11ac80 5210MHz	Antenna	Horizontal

Test Graph for Peak Measurement



Test Graph for Average Measurement





EUT	Intelligent conference control tablet	Model Name	CP100
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11ac80 5210MHz	Antenna	Vertical

Test Graph for Peak Measurement



Test Graph for Average Measurement





EUT	Intelligent conference control tablet	Model Name	CP100
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11ac80 5290MHz	Antenna	Horizontal

Test Graph for Peak Measurement



Test Graph for Average Measurement





EUT	Intelligent conference control tablet	Model Name	CP100
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11ac80 5290MHz	Antenna	Vertical

Test Graph for Peak Measurement



Test Graph for Average Measurement





EUT	Intelligent conference control tablet	Model Name	CP100
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11ac80 5530MHz	Antenna	Horizontal

Test Graph for Peak Measurement



Test Graph for Average Measurement





EUT	Intelligent conference control tablet	Model Name	CP100
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11ac80 5530MHz	Antenna	Vertical

Test Graph for Peak Measurement



Test Graph for Average Measurement





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Note: 1. All the 20MHz bandwidth modulation had been tested, the 802.11a20 at 5180MHz, 5320 MHz, 5500MHz was the worst case and record in his test report. All the 40MHz bandwidth modulation had been tested, the 802.11N40 at 5190MHz, 5310MHz, 5510MHz was the worst case and record in his test report. All the 80MHz bandwidth modulation had been tested, the 802.11AC80 at 5210MHz, 5290MHz, 5530MHz was the worst case and record in his test report.

- 2. The factor had been edited in the "Input Correction" of the Spectrum Analyzer.
- 3. Only the data of band edge emission at the restricted band 4.5GHz-5.15GHz and 5.35GHz-5.46GHz record in the report. Other restricted band 7.25GHz-7.77GHz were considered as ambient noise. No recording in the test report.



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12. LINE CONDUCTED EMISSION TEST

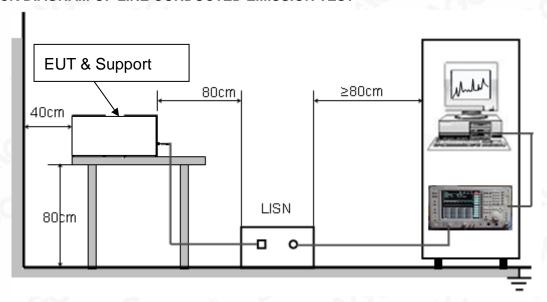
12.1. LIMITS OF LINE CONDUCTED EMISSION TEST

F	Maximum R	F Line Voltage
Frequency	Q.P (dBμV)	Average (dBμV)
150kHz~500kHz	66-56	56-46
500kHz~5MHz	56	46
5MHz~30MHz	60	50

Note:

- 1. The lower limit shall apply at the transition frequency.
- 2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50MHz.

12.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST



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12.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST

- 1. The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
- 2. Support equipment, if needed, was placed as per ANSI C63.10.
- 3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.
- 4. All support equipment received AC120V/60Hz power from a LISN, if any.
- 5. The EUT received charging voltage by adapter which received 120V/60Hzpower by a LISN.
- 6. The test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 Ohm load; the second scan had Line 1 connected to a 50 Ohm load and Line 2 connected to the Analyzer / Receiver.
- 7. Analyzer / Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.
- 8. During the above scans, the emissions were maximized by cable manipulation.
- 9. The test mode(s) were scanned during the preliminary test.

Then, the EUT configuration and cable configuration of the above highest emission level were recorded for reference of final testing.

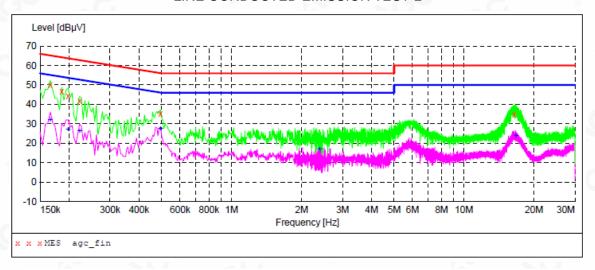
12.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST

- 1. EUT and support equipment was set up on the test bench as per step 2 of the preliminary test.
- 2. A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. If EUT emission level was less – 2dB to the A.V. limit in Peak mode, then the emission signal was re-checked using Q.P and Average detector.
- 3. The test data of the worst case was reported on the Summary Data page.



12.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

LINE CONDUCTED EMISSION TEST-L



MEASUREMENT RESULT: "agc fin"

2021/6/22 22:30

4	121/6/22 22:	30					
	Frequency	Level	Transd	Limit	Margin	Detector	Line
	MHz	dΒμ∇	dB	dΒμ∇	dB		
	0.166000	50.20	12.4	65	15.0	QP	L1
	0.186000	46.80	12.4	64	17.4	QP	L1
	0.198000	44.40	12.4	64	19.3	QP	L1
	0.222000	41.70	12.4	63	21.0	QP	L1
	0.494000	35.30	12.4	56	20.8	QP	L1
	16.478000	34.70	14.5	60	25.3	QP	L1

MEASUREMENT RESULT: "agc fin2"

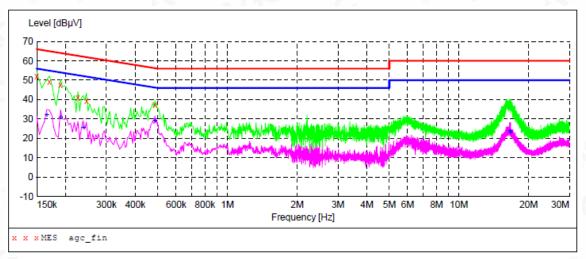
2021/6/22 22:30

2021/6/22 22:	30					
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line
0.166000	31.90	12.4	55	23.3	AV	L1
0.198000	27.10	12.4	54	26.6	AV	L1
0.222000	26.20	12.4	53	26.5	AV	L1
0.494000	27.70	12.4	46	18.4	AV	L1
2.394000	17.00	12.5	46	29.0	AV	L1
16.694000	24.00	14.5	50	26.0	AV	L1

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LINE CONDUCTED EMISSION TEST-N



MEASUREMENT RESULT: "agc fin"

2021/6/22 22:14

2021/6/22 22:	14					
Frequency	Level	Transd	Limit	Margin	Detector	Line
MHz	dΒμ∇	dB	dBμ∇	dB		
0.150000	51.90	12.4	66	14.1	OB	N
					_	IA
0.170000	49.10	12.4	65	15.9	QP	N
0.190000	47.40	12.4	64	16.6	QP	N
0.226000	41.00	12.4	63	21.6	QP	N
0.246000	39.50	12.4	62	22.4	QP	N
0.486000	37.20	12.4	56	19.0	QP	N

MEASUREMENT RESULT: "agc fin2"

2021/6/22 22:14

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line
0.166000	32.10	12.4	55	23.1	AV	N
0.190000	30.70	12.4	54	23.3	AV	N
0.238000	25.60	12.4	52	26.6	AV	N
0.486000	29.20	12.4	46	17.0	AV	N
16.566000	23.80	14.5	50	26.2	AV	N
16.706000	23.10	14.5	50	26.9	AV	N

RESULT: PASS



APPENDIX A: PHOTOGRAPHS OF TEST SETUP

LINE CONDUCTED EMISSION TEST SETUP



RADIATED EMISSION TEST SETUP BELOW 1GHZ

