

1 of 2

Stop 5.650 GHz Sweep 8.000 ms (30000 pts)

FOR 802.11N40 MODULATION

ght Spectrum Analyzer - Swept Se 17 PM Oct 14, 2020 ALIGN AUTO Avg Type: Log-Pwr Avg|Hold:>100/100 Peak Search 1 39.991333044 MHz Trig: Free Run PNO: Fast IFGain:Low #Atten: 30 dB DE Next Peak Mkr1 39.99 MHz -57.174 dBm 10 dB/div Log Ref 20.00 dBm Next Pk Right Next Pk Left Marker Delta Mkr→CF Mkr→RefLv More 1 of 2 Start 0.0300 GHz #Res BW 100 kHz Stop 1.0000 GHz Sweep 94.00 ms (30000 pts) #VBW 300 kHz Peak Search Avg Type: Log-Pw Avg|Hold:>100/100 Marker 1 3.175032501083 GHz Trig: Free Run PNO: Fast 😱 IEG #Atten: 30 dB Mkr1 3.175 033 GHz -46.044 dBm Next Peak 10 dB/div Ref 20.00 dBm Next Pk Right Next Pk Left Marker Delta Mkr→CF Mkr→RefLvl More

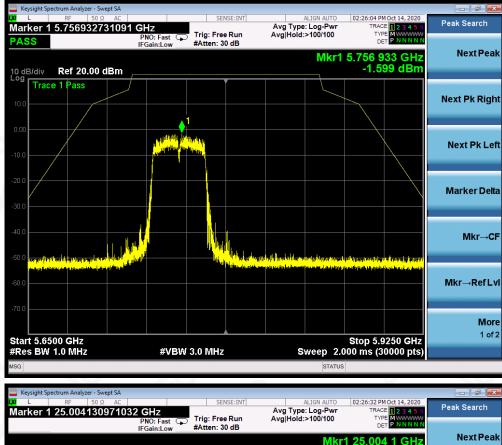
TEST PLOT OF OUT OF BAND EMISSIONS FOR MODULATION IN 5755MHz

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#VBW 3.0 MHz

Start 1.000 GHz #Res BW 1.0 MHz







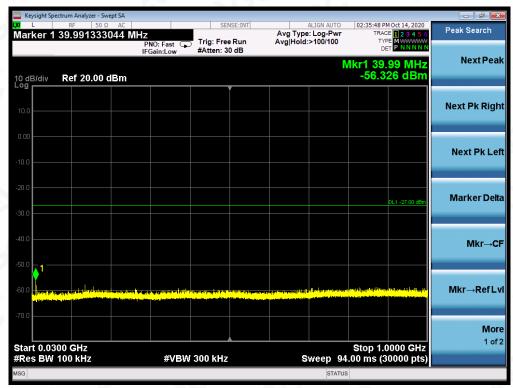
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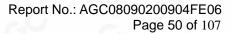


TEST PLOT OF OUT OF BAND EMISSIONS FOR MODULATION IN 5795M

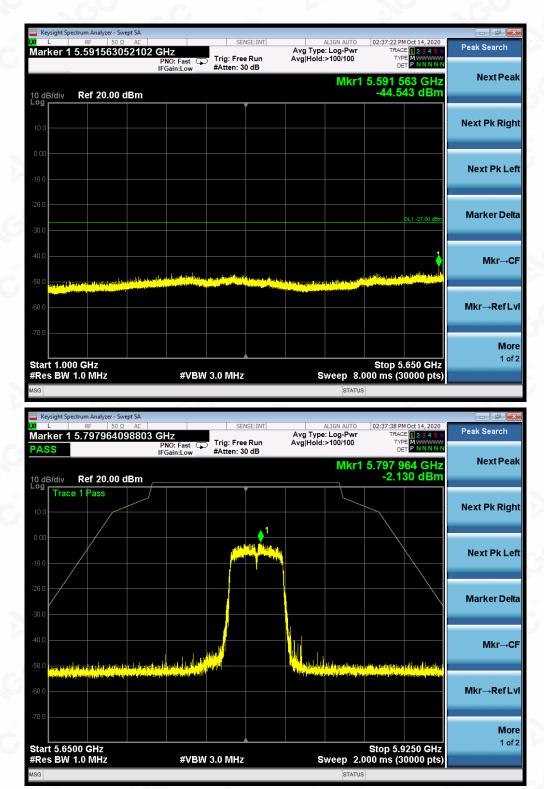


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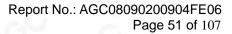
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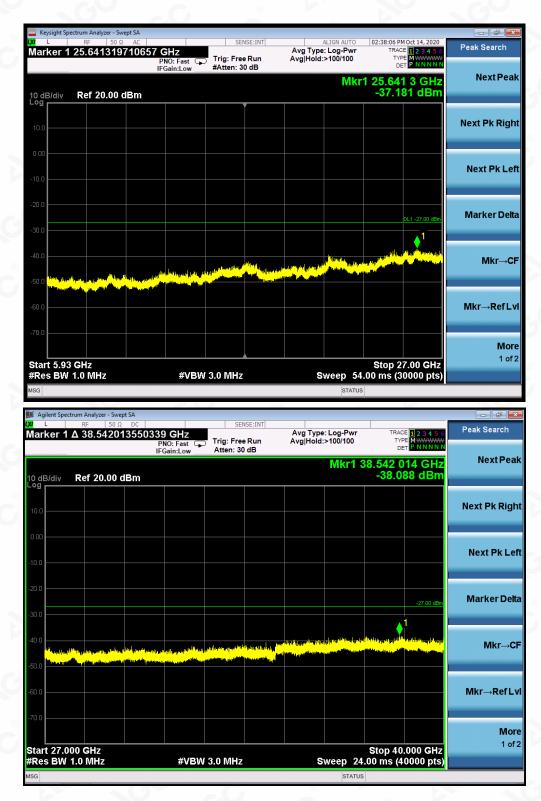




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Mkr→RefLvl

Stop 5.650 GHz Sweep 8.000 ms (30000 pts) More 1 of 2

FOR 802.11AC80 MODULATION

ght Spectrum Analyzer - Swept Se 57 PM Oct 14, 2020 ALIGN AUTO Avg Type: Log-Pwr Avg|Hold:>100/100 Peak Search 1 39.958998633 MHz Trig: Free Run PNO: Fast IFGain:Low #Atten: 30 dB DE Next Peak Mkr1 39.96 MHz -57.492 dBm 10 dB/div Log Ref 20.00 dBm Next Pk Right Next Pk Left Marker Delta Mkr→CF Mkr→RefLv More 1 of 2 Start 0.0300 GHz #Res BW 100 kHz Stop 1.0000 GHz Sweep 94.00 ms (30000 pts) #VBW 300 kHz PM Oct 14, 2020 Peak Search Avg Type: Log-Pw Avg|Hold:>100/100 Marker 1 5.187309576986 GHz Trig: Free Run PNO: Fast 😱 IEG #Atten: 30 dB Next Peak Mkr1 5.187 310 GHz -46.770 dBm 10 dB/div Ref 20.00 dBm Next Pk Right Next Pk Left Marker Delta Mkr→CF

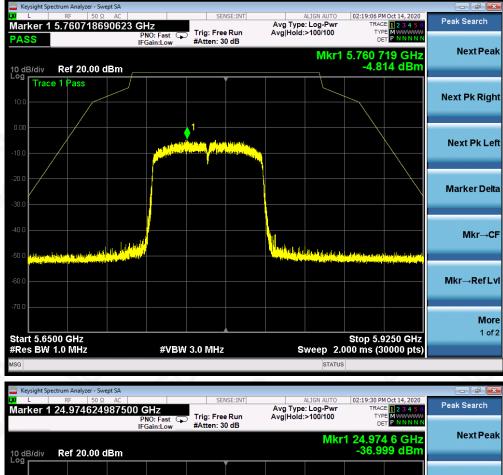
TEST PLOT OF OUT OF BAND EMISSIONS FOR MODULATION IN 5750MHz

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#VBW 3.0 MHz

Start 1.000 GHz #Res BW 1.0 MHz







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🇾 Agilent Spe	ectrum Analyzer - Swept SA					
Marker 1	RF 50 Ω D Δ 38.6164404	111010 GHz PNO: Fast	Trig: Free Run Atten: 30 dB	Avg Type: Log-Pwr Avg Hold:>100/100	TRACE 123456 TYPE MWWWW DET PNNNN	Peak Search
10 dB/div	Ref 20.00 dBr	IFGain:Low	Atten: 30 dB	Mkr1 3	8.616 440 GHz -37.811 dBm	Next Peak
10.0						Next Pk Righ
-10.0						Next Pk Lef
-20.0					-27.00 dBm	Marker Delta
-40.0		allanan sanan s	an bi di kang mangang kati bi di kang mangang kati bi di kang mangang kati bi di kang di kang bi di kang di ka Pang mani bi mangang mangang kati bi mangang kat	ne di tera manda di tera manda di tera manda di tera di La contra tera di tera d		Mkr→Cf
-60.0						Mkr→RefLv
-70.0 Start 27.0 #Res BW		#VBW	3.0 MHz	Sweep 24	Stop 40.000 GHz 00 ms (40000 pts)	More 1 of 2
MSG				STATUS		

Note: All the 20MHz bandwidth modulation had been tested, the 802.11a20 was the worst case and record in his test report. All the 40MHz bandwidth modulation had been tested, the 802.11N40 was the worst case and record in his test report.

Two transmit chains had been tested, the chain 1 was the worst case and record in the test report. The spurious emission at chain 0 is more than 3dB below the limits, so the MIMO results for the spurious emissions are comply with the requirement.

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12. RADIATED EMISSION

12.1. MEASUREMENT PROCEDURE

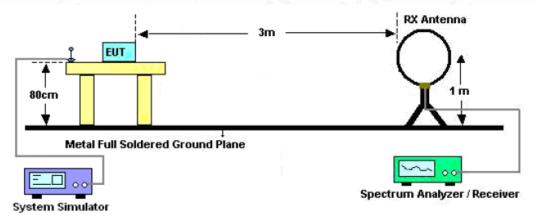
- 1. The EUT was placed on the top of the turntable 0.8 or 1.5 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
- 2. Power on the EUT and all the supporting units. The turntable was rotated 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 emissions, 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.
- 5. 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.

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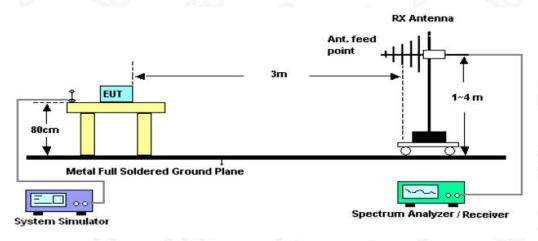


12.2. TEST SETUP

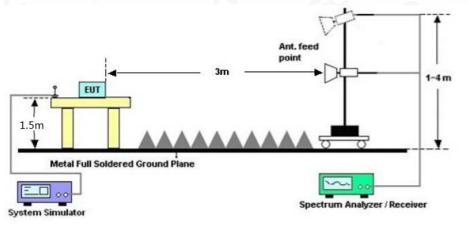
Radiated Emission Test-Setup Frequency Below 30MHz



RADIATED EMISSION TEST SETUP 30MHz-1000MHz



RADIATED EMISSION TEST SETUP ABOVE 1000MHz



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12.3. LIMITS AND MEASUREMENT RESULT

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

Frequencies (MHz)	Field Strength (micorvolts/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.

12.4. TEST RESULT

RADIATED EMISSION BELOW 30MHZ

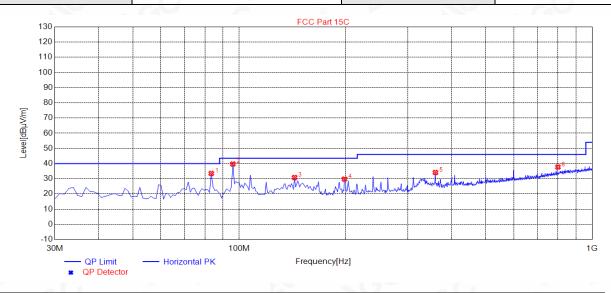
The amplitude of spurious emissions from 9kHz to 30MHz which are attenuated more than 20 dB below the permissible value need not be reported.

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RADIATED EMISSION BELOW 1GHZ

EUT	RC AIRCRAFT	Model Name	W PRO
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5745MHz	Antenna	Horizontal



NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	83.3500	33.52	7.18	40.00	6.48	150	256	Horizontal
2	95.9600	39.74	9.71	43.50	3.76	150	251	Horizontal
3	143.490	30.84	14.88	43.50	12.66	150	206	Horizontal
4	198.780	29.82	12.11	43.50	13.68	150	195	Horizontal
5	359.800	34.14	18.20	46.00	11.86	150	322	Horizontal
6	800.180	37.71	28.51	46.00	8.29	150	270	Horizontal

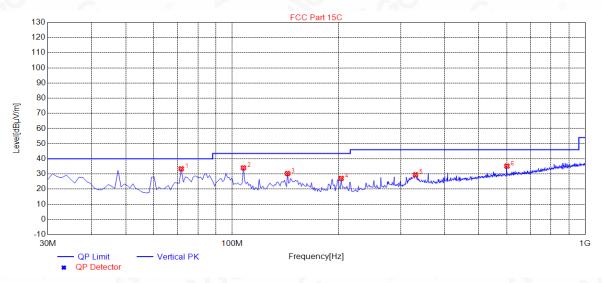
RESULT: PASS

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EUT	RC AIRCRAFT	Model Name	W PRO
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5745MHz	Antenna	Vertical



NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	71.7100	33.43	8.87	40.00	6.57	150	44	Vertical
2	107.6000	34.03	12.17	43.50	9.47	150	228	Vertical
3	143.4900	30.30	14.88	43.50	13.20	150	160	Vertical
4	203.6300	27.10	12.29	43.50	16.40	150	299	Vertical
5	330.7000	29.48	17.10	46.00	16.52	150	359	Vertical
6	600.3600	35.18	24.33	46.00	10.82	150	278	Vertical

RESULT: PASS

Note: All test channels had been tested. The antenna 1 in 802.11a at 5745MHz modulation 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	RC AIRCRAFT	Model Name	W PRO
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5745MHz	Antenna	Horizontal/Vertical

RADIATED EMISSION ABOVE 1GHZ–Horizontal

Frequency	Meter Reading	5 •				
	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
11490.042	47.12	9.42	[©] 53.72	74.00	-20.28	peak
11490.042	38.25	9.42	48.16	54.00	-5.84	AVG
17235.063	42.31	10.51	52.82	68.20	-15.38	peak
17235.063 Remark:	42.31	10.51	52.82	68.20	-1	5.38
ite	enna Factor + C	able Loss – F	Pre-amplifier			

RADIATED EMISSION ABOVE 1GHZ-Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
11490.042	46.37	9.42	54.44	74.00	-19.56	peak
11490.042	37.23	9.42	48.64	54.00	-5.36	AVG
17235.063	40.48	10.51	50.99	68.20	-17.21	peak
Remark:		- 6	8			
-actor = Ante	enna Factor + Ca	able Loss -	Pre-amplifier.	ß		

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EUT	RC AIRCRAFT	Model Name	W PRO
Temperature	25°C	Relative Humidity	55.4%
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	Value Type			
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type			
11570.042	47.34	9.52	53.72	74.00	-20.28	peak			
11570.042	36.15	9.52	48.16	54.00	-5.84	AVG			
17355.063	41.37	10.51	51.88	68.20	-16.32	peak			
Remark:									
Factor = Antenna 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
11570.042	45.38	9.42	54.44	74.00	-19.56	peak
11570.042	38.15	9.42	48.64	54.00	-5.36	AVG 💿
17355.063	40.23	10.64	50.87	68.20	-17.33	peak
Remark:	©			Č		
Factor = Ante	enna Factor + Ca	able Loss – I	Pre-amplifier.			0

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EUT	RC AIRCRAFT	Model Name	W PRO
Temperature	25°C	Relative Humidity	55.4%
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)	
11650.042	46.91	9.62	52.98	74.00	-21.02	peak
11650.042	35.47	9.62	45.05	54.00	-8.95	AVG
17475.063	39.22	10.75	49.97	68.20	-18.23	peak
Remark:						
Factor = Ante	enna Factor + C	able Loss – F	Pre-amplifier.			C.

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	43.18	9.62	53.55	74.00	-20.45	peak
11650.042	32.18	9.62	47.64	54.00	[©] -6.36	AVG
17475.063	38.46	10.75	49.21	68.20	-18.99	peak
Remark:						
Factor = Ante	enna Factor + C	able Loss – I	Pre-amplifier.	0		

RESULT: PASS

Note: All the case had been tested. The antenna 1 in 802.11a20 modulation 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= Level- Limit.

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

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13. BAND EDGE EMISSION

13.1. MEASUREMENT PROCEDURE

1. The EUT operates at transmitting mode. The operate channel is tested to verify the largest transmission and spurious emissions power at the continuous transmission mode.

2. Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission: (a) PEAK: RBW=1MHz, VBW=3MHz / Sweep=AUTO

(b) AVERAGE: RBW=1MHz ; VBW=3MHz ;Sweep=AUTO

3. Other procedures refer to clause 11.2.

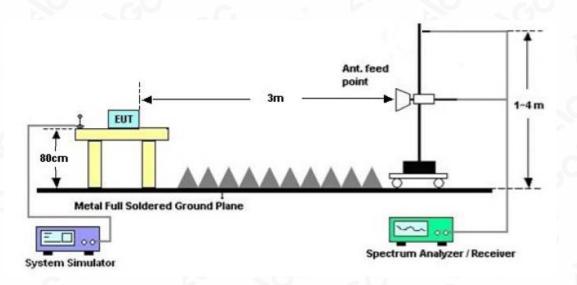
Note:

1. Factor=Antenna Factor + Cable loss - Amplifier gain. Field Strength=Factor + Reading level

2. The factor had been edited in the "Input Correction" of the Spectrum Analyzer. So the Amplitude of test plots is equal to Reading level plus the Factor in dB. Use the A dB(μ V) to represent the Amplitude. Use the F dB(μ V/m) to represent the Field Strength. So A=F.

3. Only the data of band edge emission at the restricted band 4.5GHz-5.15GHz record in the report. Other restricted band 5.35GHz-5.46GHz and 7.25GHz-7.77GHz were considered as ambient noise. No recording in the test report.

13.2. TEST SET-UP



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13.3. TEST RESULT

EUT	RC AIRCRAFT	Model Name	W PRO
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5745MHz	Antenna	Horizontal

PK Value



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EUT	RC AIRCRAFT	Model Name	W PRO
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5745MHz	Antenna	Vertical



PK Value

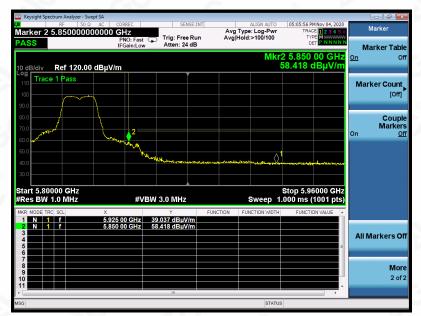
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EUT	RC AIRCRAFT	Model Name	W PRO
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5825MHz	Antenna	Horizontal

PK Value



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EUT	RC AIRCRAFT	Model Name	W PRO
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5825MHz	Antenna	Vertical





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EUT	RC AIRCRAFT	Model Name	W PRO
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n40 5755MHz	Antenna	Horizontal



PK Value

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EUT	RC AIRCRAFT	Model Name	W PRO
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n40 5755MHz	Antenna	Vertical



PK Value

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EUT	RC AIRCRAFT	Model Name	W PRO
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n40 5795MHz	Antenna	Horizontal

PK Value



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EUT	RC AIRCRAFT	Model Name	W PRO
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n40 5795MHz	Antenna	Vertical





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EUT	RC AIRCRAFT	Model Name	W PRO
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11AC80 5775MHz	Antenna	Horizontal

PK Value

Avg Type: Log-Pw Avg|Hold:>100/100 Trig: Free Run Atten: 24 dB Marker Tabl On Ref 120.00 dBµV/m Marker Count [Off] Coup Marke 5.60000 GHz BW 1.0 MHz Stop 5.75500 GHz #VBW 3.0 MHz 5.650 000 GHz 50.747 dBµV/m 5.725 000 GHz 63.175 dBµV/m All Markers Of More 2 of 1 5.925000000000 GHz Mark Avg Type: Log-Pwr Avg|Hold:>100/100 Trig: Free Run Atten: 24 dB On Ref 120.00 dBµV/m Marker Coun [Off] Cou Mark tart 5.80000 GHz Res BW 1.0 MHz Stop 5.96000 GHz #VBW 3.0 MHz Sweep 5.925 00 GHz 5.850 00 GHz 40.506 dB 56.002 dB All Markers Off More 2 of 2

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EUT	RC AIRCRAFT	Model Name	W PRO
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11AC80 5775MHz	Antenna	Vertical



PK Value

RESULT: PASS

Note: All the bandwidth modulation had been tested, All the antennas have been pre-tested, and all modes of each antenna are tested. In 802.11a20 mode at antenna 1 is the worst case and recorded in the report; In 802.11n mode, The 802.11n40 at antenna 1+2 is the worst case and recorded in the report. In 802.11ac mode, The 802.11ac80 at antenna 1+2 is the worst case and recorded in the report.

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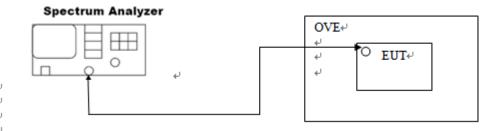


14. FREQUENCY STABILITY

14.1. MEASUREMENT PROCEDURE

- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2. Set the EUT Work on the operation frequency.
- 3. Set SPA Centre Frequency = Operation Frequency. SPAN=enough to measure the emission is maintained within the band
- 4. Set SPA Trace 1 Max hold, then View.
- 5. Extreme temperature rule is -10°C~60°C.

14.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)



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14.3. MEASUREMENT RESULTS

Test Mode	Temperature	Measurement Frequency (MHz)	Result	Conclusion
	- 10℃	5745	5745.066	PASS
	0°C	5745	5745.049	PASS
	10 ℃	5745	5745.047	PASS
	20 ℃	5745	5745.045	PASS
©	30 ℃	5745	5745.043	PASS
- 6	40 ℃	5745	5745.045	PASS
	50 ℃	5745	5745.041	PASS
002 110	60 ℃	5240	5745.045	PASS
802.11a	- 10℃	5825	5825.056	PASS
c.C	0°C	5825	5825.058	PASS
0	10 ℃	5825	5825.051	PASS
	20 ℃	5825	5825.046	PASS
	30 ℃	5825	5825.059	PASS
	40 ℃	5825	5825.057	PASS
	50 ℃	5825	5825.055	PASS
	60 ℃	5825	5825.055	PASS

Test Mode	Temperature	Measurement Frequency (MHz)	Result	Conclusion
	- 10℃	5745	5745.043	PASS
®	0 °C	5745	5745.048	PASS
- 6	<u>ି</u> 10℃	5745	5745.049	PASS
	20 ℃	5745	5745.047	PASS
	30 ℃	5745	5745.044	PASS
	40 ℃	5745	5745.045	PASS
	50 ℃	5745	5745.041	PASS
000 11=00	60 ℃	5240	5745.046	PASS
802.11n20	- 10 ℃	5825	5825.052	PASS
0	0 °C	5825	5825.057	PASS
	10 ℃	5825	5825.058	PASS
	20 ℃	5825	5825.053	PASS
	30 ℃	5825	5825.054	PASS
	40 °C	5825	5825.059	PASS
- 6	50 ℃	5825	5825.055	PASS
	60 ℃	5825	5825.056	PASS

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Test Mode	Temperature	Measurement Frequency (MHz)	Result	Conclusion
	- 10℃	5755	5755.049	PASS
6	0 °C	5755	5755.046	PASS
- C	10 ℃	5755	5755.043	PASS
5 ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	20 ℃	5755	5755.045	PASS
	30 ℃	5755	5755.048	PASS
0	40 ℃	5755	5755.048	PASS
	50 ℃	5755	5755.048	PASS
000 11-10	60 ℃	5755	5755.046	PASS
802.11n40	- 10℃	5795	5795.062	PASS
	0°C	5795	5795.061	PASS
	10 ℃	5795	5795.066	PASS
SC	20 ℃	5795	5795.067	PASS
	30 ℃	5795	5795.065	PASS
	40 ℃	5795	5795.064	PASS
C	50 ℃	5795	5795.062	PASS
3 - 0	60 ℃	5795	5795.063	PASS

Test Mode	Temperature	Measurement Frequency (MHz)	Result	Conclusion
	- 10 ℃	5745	5745.041	PASS
	0 °C	5745	5745.042	PASS
	10 ℃	5745	5745.048	PASS
	20 °C	5745	5745.046	PASS
	30 °C	5745	5745.045	PASS
	40 °C	5745	5745.048	PASS
	50 ℃	5745	5745.048	PASS
000 11 00	60 °C	5240	5745.042	PASS
802.11ac20	- 10℃	5825	5825.054	PASS
	0°C	5825	5825.056	PASS
8	10 ℃	5825	5825.048	PASS
6	20 °C	5825	5825.045	PASS
	30 °C	5825	5825.046	PASS
	40 °C	5825	5825.048	PASS
	50 ℃	5825	5825.042	PASS
8	60 °C	5825	5825.044	PASS

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Test Mode Temperatu		Measurement Frequency (MHz)	Result	Conclusion
	- 10℃	5755	5755.048	PASS
©	0 °C	5755	5755.045	PASS
- Ci	10 ℃	5755	5755.042	PASS
3 20	20 ℃	5755	5755.041	PASS
	30 °C	5755	5755.045	PASS
0	40 ℃	5755	5755.049	PASS
	50 ℃	5755	5755.048	PASS
902 11 10	60 °C	5755	5755.045	PASS
802.11ac40	- 10℃	5795	5795.062	PASS
	0°C	5795	5795.061	PASS
	10 ℃	5795	5795.062	PASS
	20 ℃	5795	5795.067	PASS
	30 °C	5795	5795.065	PASS
	40 ℃	5795	5795.068	PASS
C	50 ℃	5795	5795.065	PASS
3 .0	60 ℃	5795	5795.064	PASS

Test Mode	Temperature	Measurement Frequency (MHz)	Result	Conclusion
	- 10 ℃	5775	5775.052	PASS
	0 °C	5775	5775.053	PASS
	10 ℃	5775	5775.058	PASS
000 11 00	20 °C	5775	5775.055	PASS
802.11ac80	30 °C	5775	5775.056	PASS
	40 °C	5775	5775.054	PASS
	50 ℃	5775	5775.055	PASS
	60 °C	5775	5775.051	PASS

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15. FCC LINE CONDUCTED EMISSION TEST

15.1. LIMITS OF LINE CONDUCTED EMISSION TEST

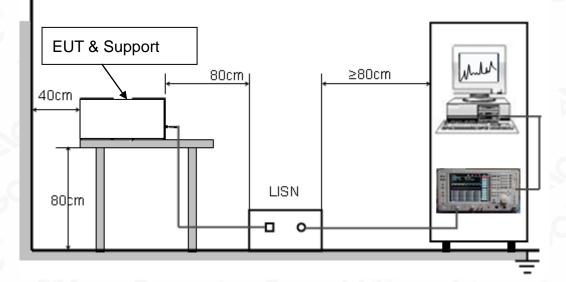
Francisco	Maximum RF Line Voltage			
Frequency	Q.P.(dBuV)	Average(dBuV)		
150kHz~500kHz	66-56	56-46		
500kHz~5MHz	56	46		
5MHz~30MHz	60	50		

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.

15.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST



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15.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST

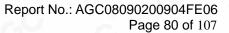
- The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10 (see Test Facility for the dimensions of the ground 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 equipments received AC120V/60Hz power from a LISN, if any.
- 5. The EUT received charging voltage by adapter which received 120V/60Hz power 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.

15.4. 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.
- 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 condition(s) was reported on the Summary Data page.

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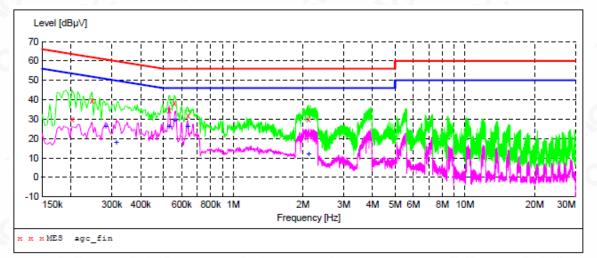




2

15.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST





MEASUREMENT RESULT: "agc fin"

2020/10/23 1	17:41					
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line
0.202000	29.90	11.3	64	33.6	QP	L1
0.246000	39.60	11.3	62	22.3	QP	L1
0.530000	34.50	11.3	56	21.5	QP	L1
0.558000	38.20	11.3	56	17.8	QP	L1
0.638000	31.80	11.3	56	24.2	QP	L1
2.110000	30.20	11.3	56	25.8	QP	L1

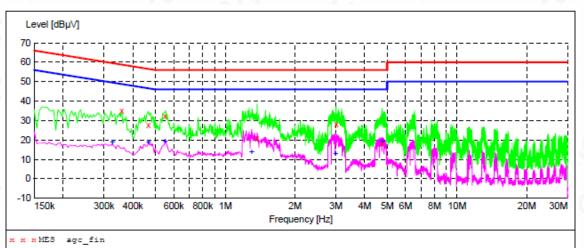
MEASUREMENT RESULT: "agc_fin2"

2020/10/23 1	7:42					
Frequency	Level	Transd	Limit	Margin	Detector	Line
MHz	dBµV	dB	dBµV	dB		
0.282000	26.30	11.3	51	24.5	AV	L1
0.314000	18.30	11.3	50	31.6	AV	L1
0.530000	26.40	11.3	46	19.6	AV	L1
0.562000	29.70	11.3	46	16.3	AV	L1
0.638000	26.30	11.3	46	19.7	AV	L1
2.122000	12.00	11.3	46	34.0	AV	L1

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LINE CONDUCTED EMISSION TEST-N

MEASUREMENT RESULT: "agc_fin"

2020/10/23 1	7:45					
Frequency	Level	Transd	Limit	Margin	Detector	Line
MHz	dBµV	dB	dBµV	dB		
			_			
0.358000	35.00	11.3	59	23.8	QP	N
0.466000	27.90	11.3	57	28.7	QP	N
0.550000	32.10	11.3	56	23.9	QP	N
1.374000	20.70	11.3	56	35.3	QP	N
3.010000	28.20	11.4	56	27.8	QP	N
4.754000	17.90	11.4	56	38.1	QP	N

MEASUREMENT RESULT: "agc fin2"

2020/10/23 17:45								
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line		
0.326000	19.00	11.3	50	30.6		N		
0.466000	19.20	11.3	47	27.4		N		
0.550000	19.60	11.3	46	26.4		N		
1.302000 2.990000	13.80 13.20	11.3 11.4	46 46	32.2 32.8	AV	N N		
4.750000	19.60	11.4	46	26.4	AV	N		

RESULT: PASS

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APPENDIX A: PHOTOGRAPHS OF TEST SETUP FCC LINE CONDUCTED EMISSION TEST SETUP



FCC RADIATED EMISSION TEST SETUP BELOW 1GHZ



Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the bedicated for the formation of the stamp. Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15day after the issuer of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc-cert.com.



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FCC RADIATED EMISSION TEST SETUP ABOVE 1GHZ

CONDUCTED TEST SETUP



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APPENDIX B: PHOTOGRAPHS OF EUT ALL VIEW OF EUT-1

TOP VIEW OF EUT



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BOTTOM VIEW OF EUT



FRONT VIEW OF EUT



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BACK VIEW OF EUT

LEFT VIEW OF EUT



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