

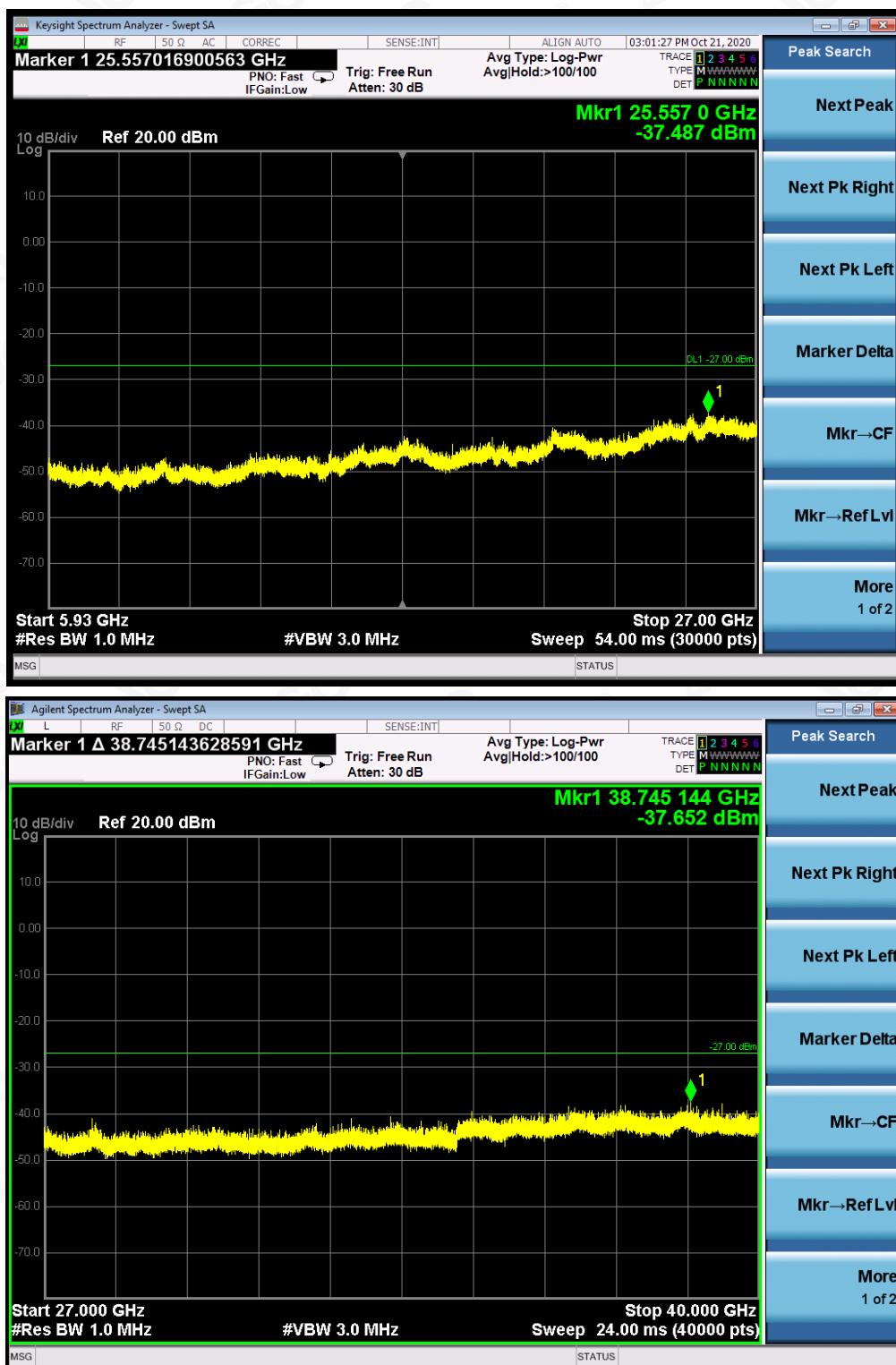
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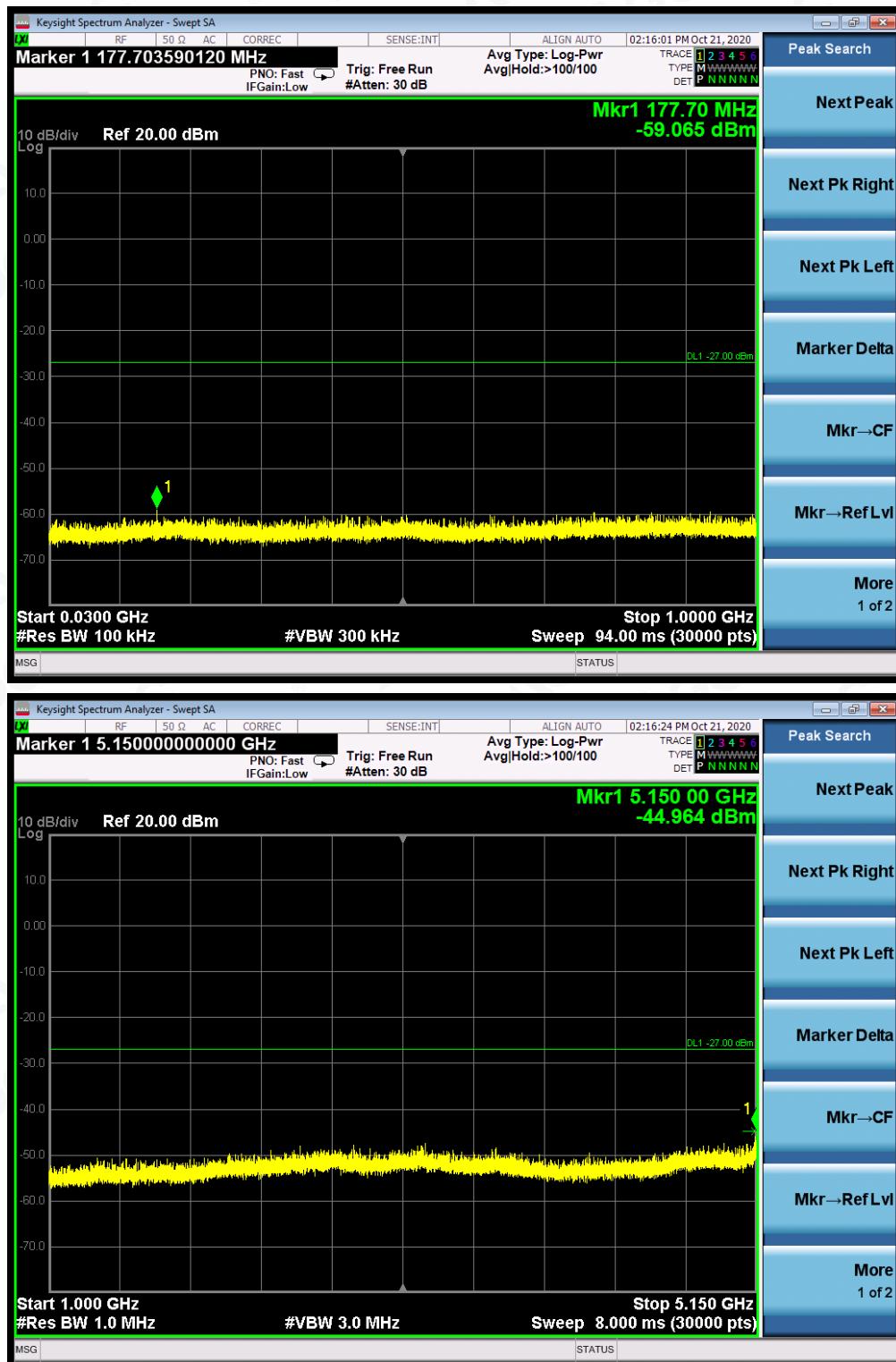
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FOR 802.11AC80 MODULATION

TEST PLOT OF OUT OF BAND EMISSIONS FOR MODULATION IN 5210MHz



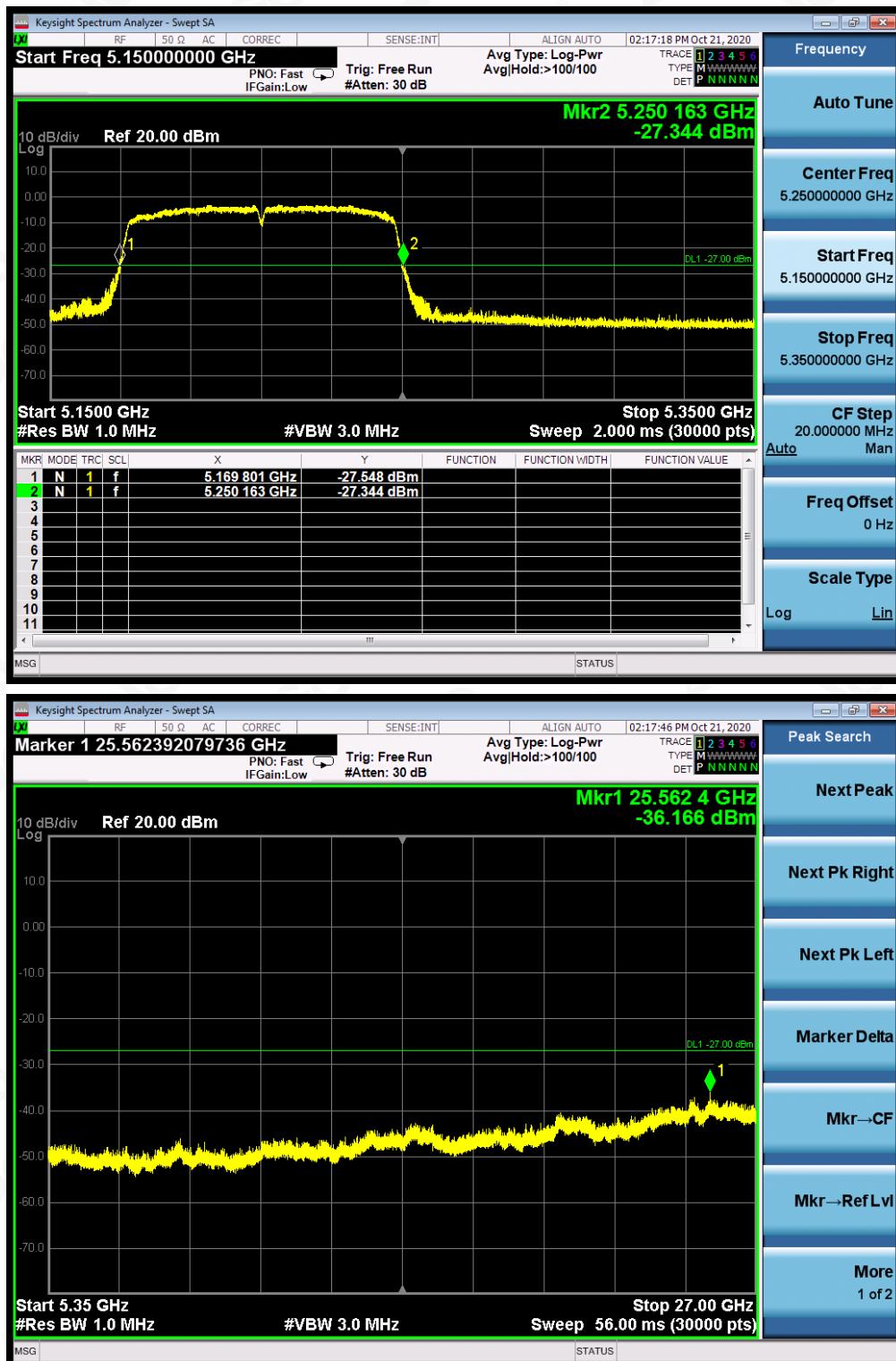
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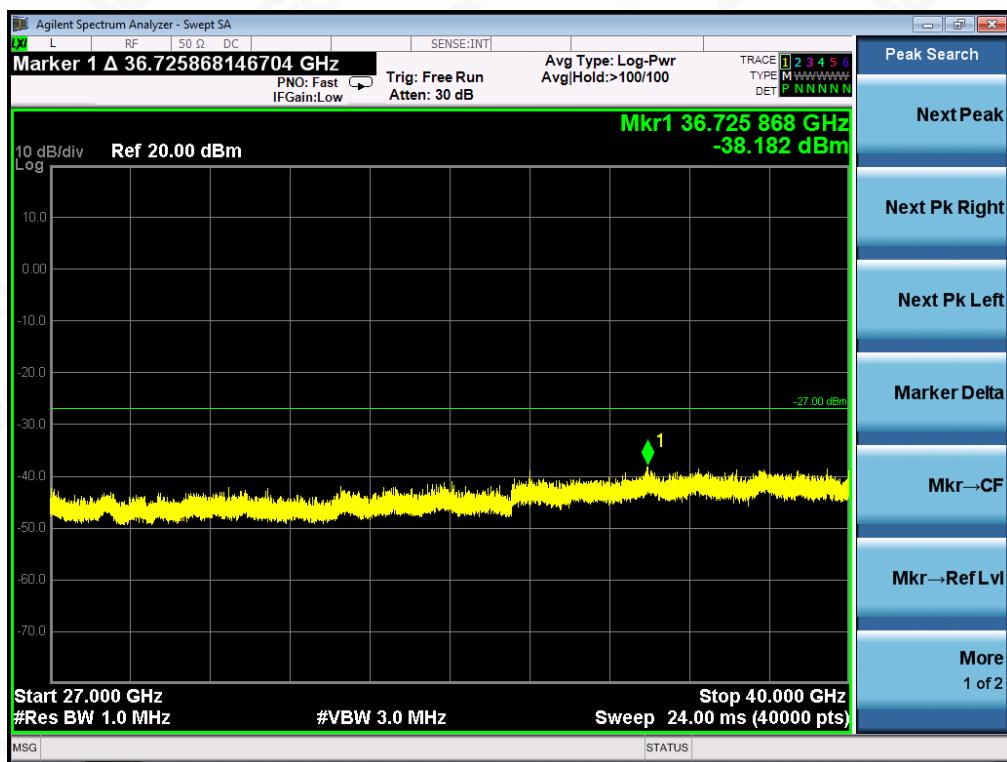
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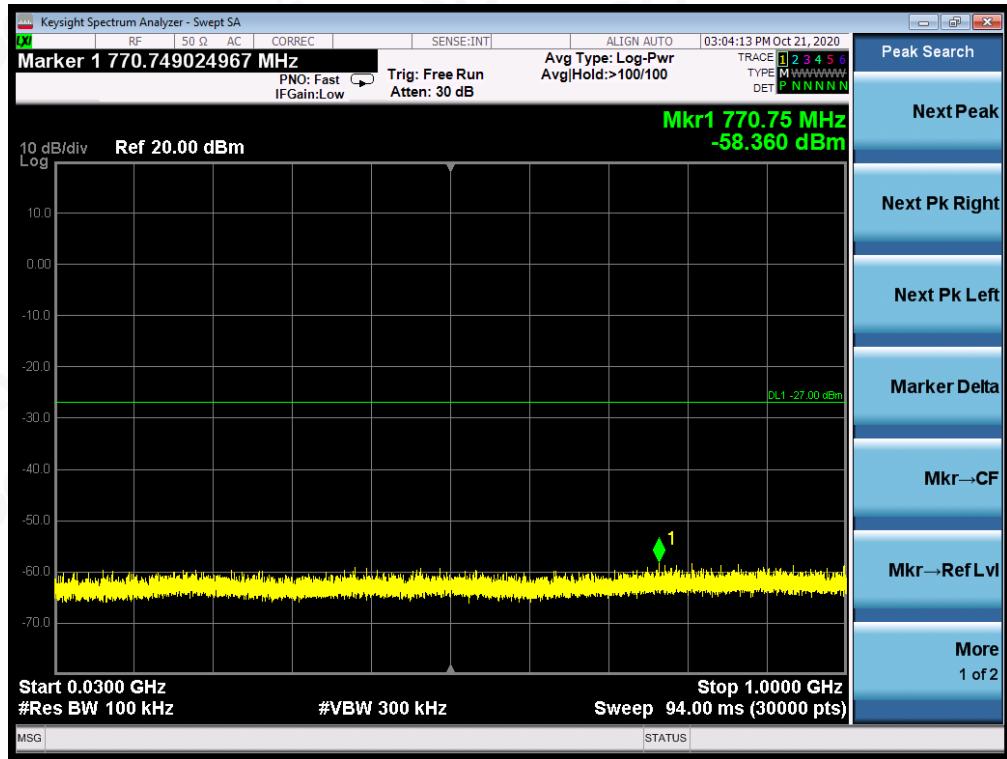
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TEST PLOT OF OUT OF BAND EMISSIONS FOR MODULATION IN 5775MHz



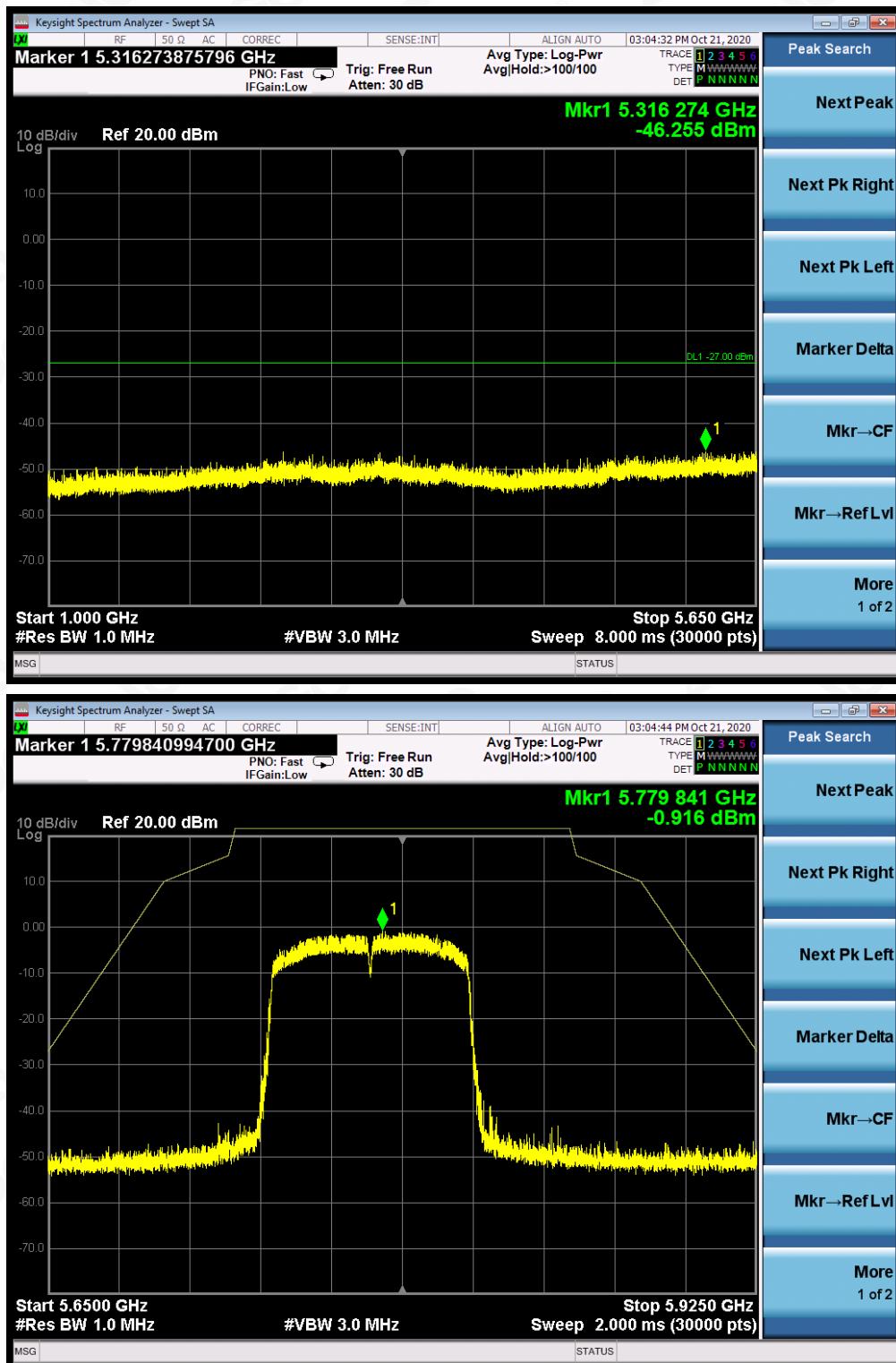
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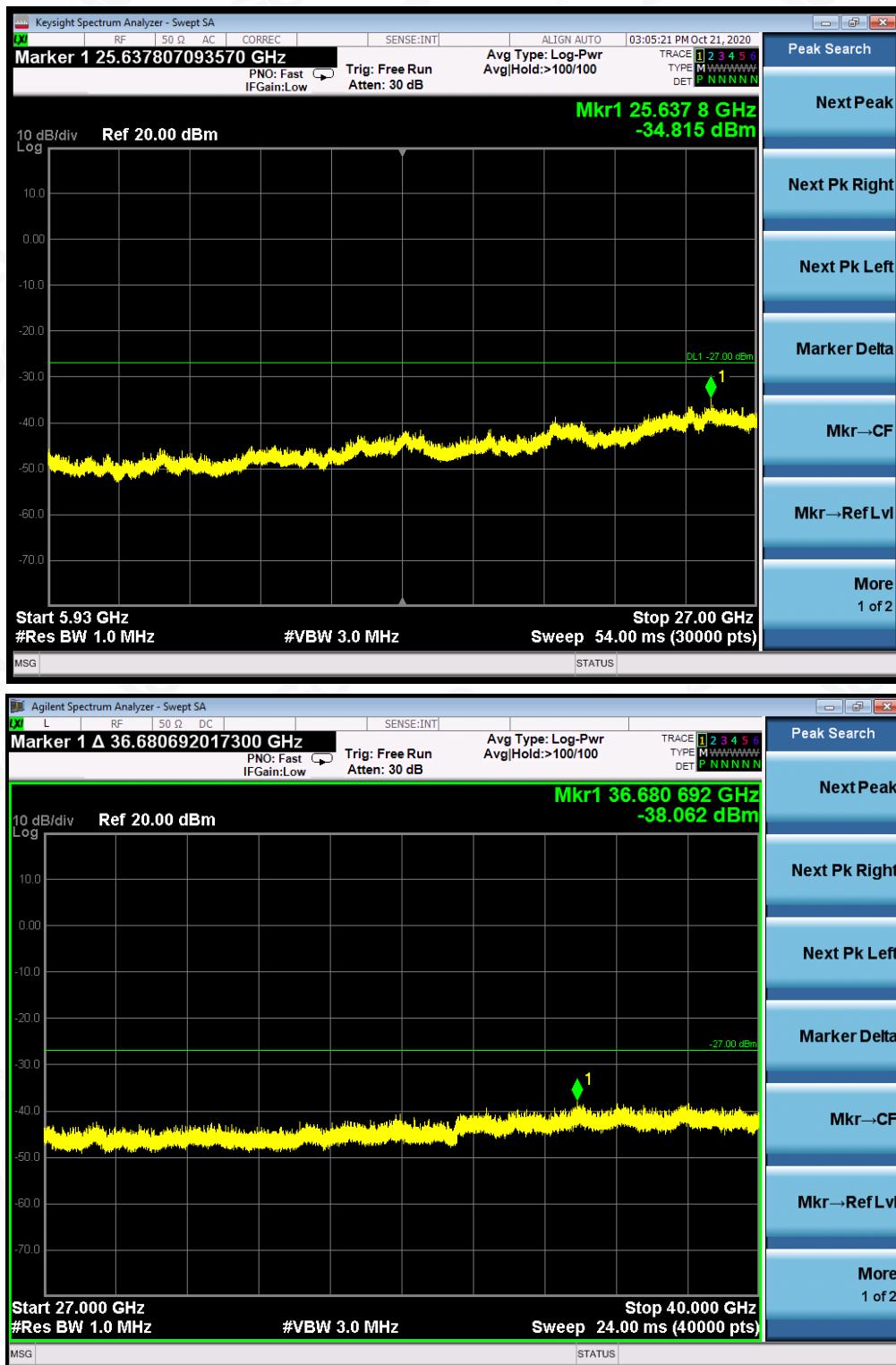
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Note: All the bandwidth modulation had been tested. Two transmit antennas had been tested, the antenna 1 in 802.11a mode was the worst case and record in the test report. For 802.11n/ac mode, the worst case Antenna 1 has more than 3dB margins, so the MIMO mode also compliance the limit.

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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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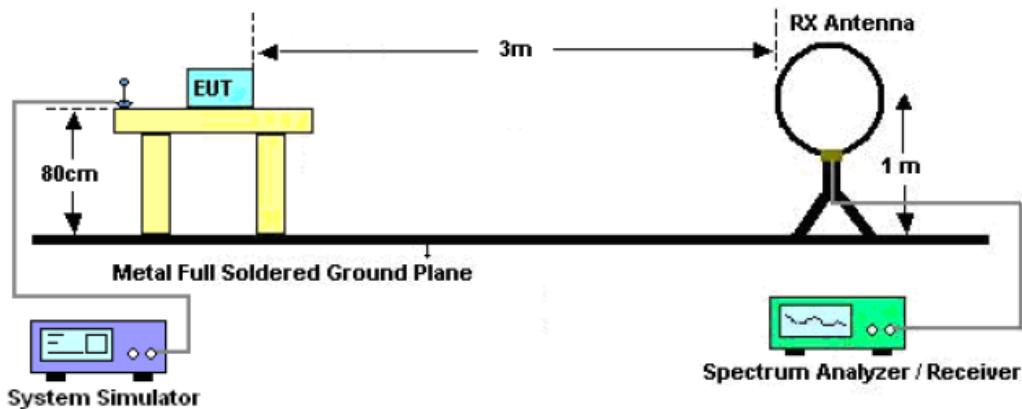
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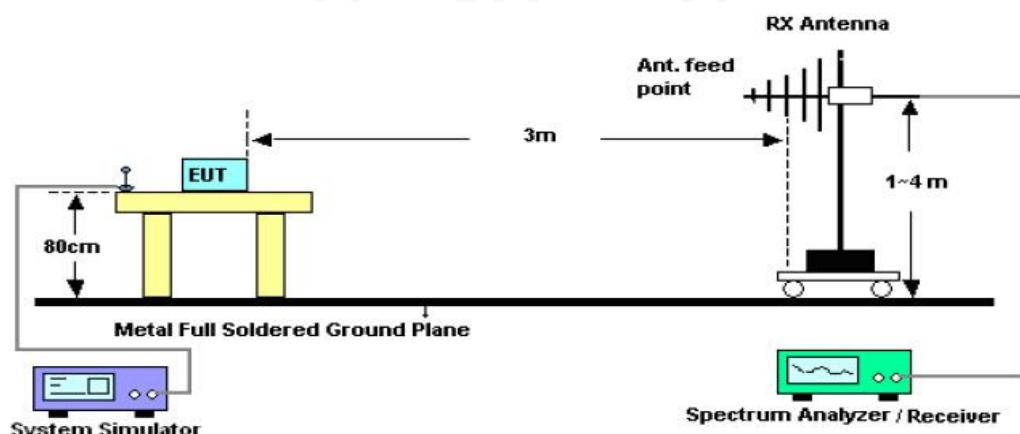


12.2. TEST SETUP

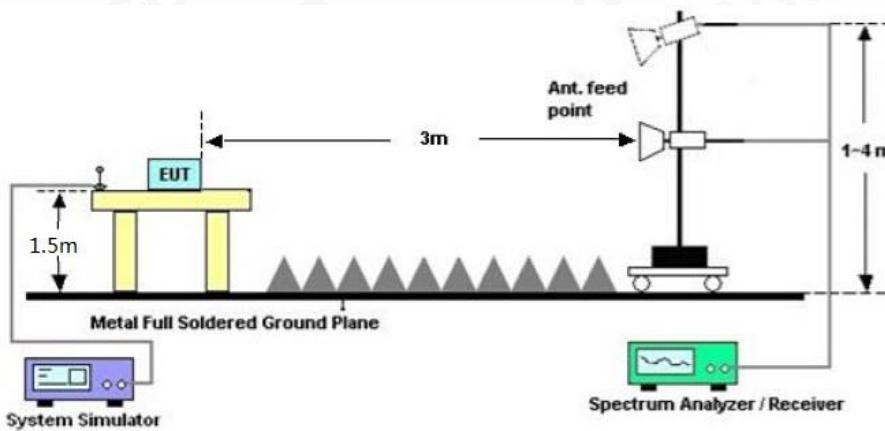
Radiated Emission Test-Setup Frequency Below 30MHz



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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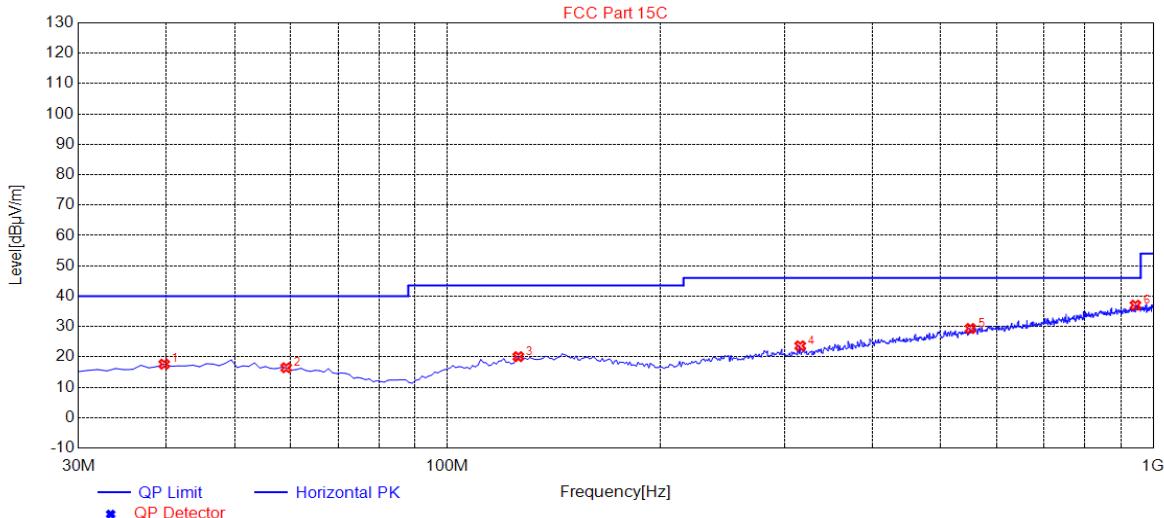
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RADIATED EMISSION BELOW 1GHZ

EUT	FOLDING DRONE	Model Name	F11GIM
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5180MHz	Antenna	Horizontal



NO .	Freq. [MHz]	Level [dB μ V/m]	Factor [dB]	Limit [dB μ V/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	39.7000	17.61	11.86	40.00	22.39	150	134	Horizontal
2	59.1000	16.44	10.98	40.00	23.56	150	355	Horizontal
3	126.0300	20.08	13.88	43.50	23.42	150	43	Horizontal
4	316.1500	23.65	16.52	46.00	22.35	150	27	Horizontal
5	550.8900	29.36	23.28	46.00	16.64	150	54	Horizontal
6	943.7400	37.04	30.65	46.00	8.96	150	168	Horizontal

RESULT: PASS

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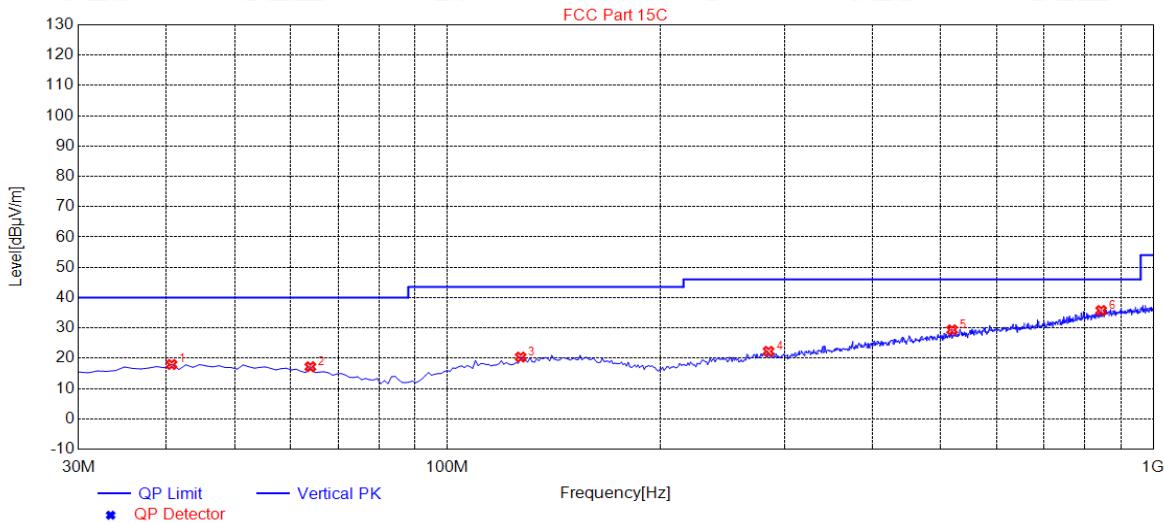
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EUT	FOLDING DRONE	Model Name	F11GIM
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5180MHz	Antenna	Vertical



NO	Freq. [MHz]	Level [dB μ V/m]	Factor [dB]	Limit [dB μ V/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	40.6700	17.95	11.91	40.00	22.05	150	248	Vertical
2	63.9500	17.19	10.25	40.00	22.81	150	217	Vertical
3	127.0000	20.39	13.95	43.50	23.11	150	338	Vertical
4	285.1100	22.28	16.24	46.00	23.72	150	31	Vertical
5	518.8800	29.38	22.57	46.00	16.62	150	79	Vertical
6	843.8300	35.76	29.19	46.00	10.24	150	73	Vertical

RESULT: PASS

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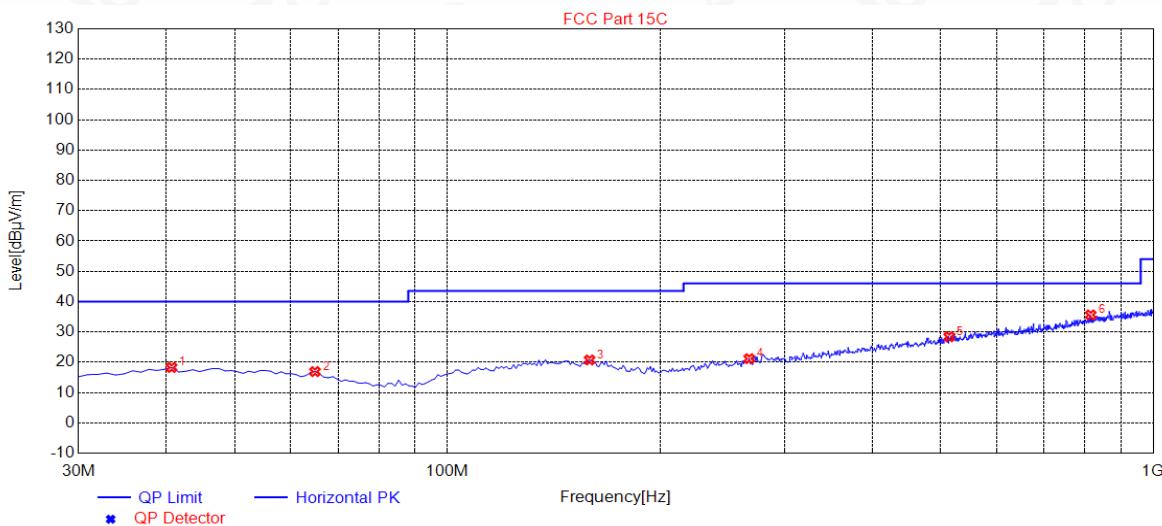
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EUT	FOLDING DRONE	Model Name	F11GIM
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5745MHz	Antenna	Horizontal



NO .	Freq. [MHz]	Level [dB μ V/m]	Factor [dB]	Limit [dB μ V/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	40.6700	18.28	11.91	40.00	21.72	150	160	Horizontal
2	64.9200	16.92	10.09	40.00	23.08	150	47	Horizontal
3	159.0100	20.75	14.94	43.50	22.75	150	314	Horizontal
4	267.6500	21.19	15.21	46.00	24.81	150	68	Horizontal
5	514.0300	28.41	22.46	46.00	17.59	150	7	Horizontal
6	815.7000	35.63	28.76	46.00	10.37	150	95	Horizontal

RESULT: PASS

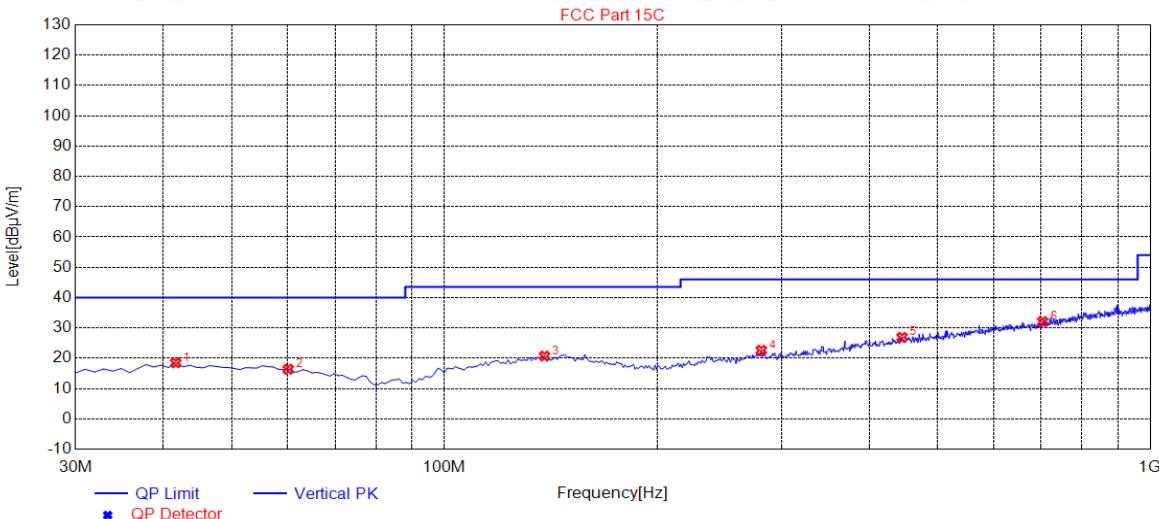
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EUT	FOLDING DRONE	Model Name	F11GIM
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5745MHz	Antenna	Vertical



NO .	Freq. [MHz]	Level [dB μ V/m]	Factor [dB]	Limit [dB μ V/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	41.6400	18.49	11.89	40.00	21.51	150	3	Vertical
2	60.0700	16.39	10.90	40.00	23.61	150	161	Vertical
3	138.6400	20.72	14.78	43.50	22.78	150	196	Vertical
4	281.2300	22.64	16.28	46.00	23.36	150	147	Vertical
5	445.1600	26.90	20.89	46.00	19.10	150	83	Vertical
6	704.1500	32.12	26.04	46.00	13.88	150	358	Vertical

RESULT: PASS

Note: All test channels had been tested. All test antennas had been tested. The 802.11a20 of antenna 1 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	FOLDING DRONE	Model Name	F11GIM
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5180MHz	Antenna	Horizontal/Vertical

RADIATED EMISSION ABOVE 1GHZ–Horizontal

Frequency (MHz)	Meter Reading (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Value Type
10360.042	46.35	9.14	55.49	68.20	-12.71	peak
15540.063	41.22	10.22	51.44	74.00	-22.56	peak
15540.063	30.94	10.22	41.16	54.00	-12.84	AVG

Remark:
 Factor = Antenna Factor + Cable Loss – Pre-amplifier.

RADIATED EMISSION ABOVE 1GHZ–Vertical

Frequency (MHz)	Meter Reading (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Value Type
10360.042	47.69	9.14	56.83	68.20	-11.37	peak
15540.063	42.31	10.22	52.53	74.00	-21.47	peak
15540.063	32.11	10.22	42.33	54.00	-11.67	AVG

Remark:
 Factor = Antenna Factor + Cable Loss – Pre-amplifier.

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EUT	FOLDING DRONE	Model Name	F11GIM
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5200MHz	Antenna	Horizontal/Vertical

RADIATED EMISSION ABOVE 1GHZ–Horizontal

Frequency (MHz)	Meter Reading (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Value Type
10400.042	45.39	9.14	54.53	68.20	-13.67	peak
15600.063	40.28	10.22	50.50	74.00	-23.50	peak
15600.063	30.54	10.22	40.76	54.00	-13.24	AVG

Remark:
 Factor = Antenna Factor + Cable Loss – Pre-amplifier.

RADIATED EMISSION ABOVE 1GHZ–Vertical

Frequency (MHz)	Meter Reading (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Value Type
10400.042	46.92	9.14	56.06	68.20	-12.14	peak
15600.063	42.37	10.22	52.59	74.00	-21.41	peak
15600.063	31.93	10.22	42.15	54.00	-11.85	AVG

Remark:
 Factor = Antenna Factor + Cable Loss – Pre-amplifier.

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EUT	FOLDING DRONE	Model Name	F11GIM
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5240MHz	Antenna	Horizontal/Vertical

RADIATED EMISSION ABOVE 1GHZ–Horizontal

Frequency (MHz)	Meter Reading (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Value Type
10480.042	47.34	9.27	56.61	68.20	-11.59	peak
15720.063	43.15	10.38	53.53	74.00	-20.47	peak
15720.063	33.94	10.38	44.32	54.00	-9.68	AVG

Remark:
 Factor = Antenna Factor + Cable Loss – Pre-amplifier.

RADIATED EMISSION ABOVE 1GHZ–Vertical

Frequency (MHz)	Meter Reading (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Value Type
10480.042	46.91	9.27	56.18	68.20	-12.02	peak
15720.063	40.37	10.38	50.75	74.00	-23.25	peak
15720.063	30.59	10.38	40.97	54.00	-13.03	AVG

Remark:
 Factor = Antenna Factor + Cable Loss – Pre-amplifier.

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EUT	FOLDING DRONE	Model Name	F11GIM
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 (MHz)	Meter Reading (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Value Type
11490.042	47.34	9.42	56.76	74.00	-17.24	peak
11490.042	37.24	9.42	46.66	54.00	-7.34	AVG
17235.063	42.59	10.51	53.10	68.20	-15.10	peak

Remark:
 Factor = Antenna Factor + Cable Loss – Pre-amplifier.

RADIATED EMISSION ABOVE 1GHZ–Vertical

Frequency (MHz)	Meter Reading (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Value Type
11490.042	49.21	9.42	58.63	74.00	-15.37	peak
11490.042	36.14	9.42	45.56	54.00	-8.44	AVG
17235.063	43.94	10.51	54.45	68.20	-13.75	peak

Remark:
 Factor = Antenna Factor + Cable Loss – Pre-amplifier.

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EUT	FOLDING DRONE	Model Name	F11GIM
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)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
11570.042	47.63	9.42	57.05	74.00	-16.95	peak
11570.042	36.59	9.42	46.01	54.00	-7.99	AVG
17355.063	43.78	10.51	54.29	68.20	-13.91	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)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
11570.042	47.36	9.42	56.78	74.00	-17.22	peak
11570.042	36.52	9.42	45.94	54.00	-8.06	AVG
17355.063	42.18	10.51	52.69	68.20	-15.51	peak

Remark:
 Factor = Antenna Factor + Cable Loss – Pre-amplifier.

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EUT	FOLDING DRONE	Model Name	F11GIM
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)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
11650.042	45.91	9.62	52.98	74.00	-21.02	peak
11650.042	35.18	9.62	45.05	54.00	-8.95	AVG
17475.063	37.11	10.75	47.61	68.20	-26.39	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)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
11650.042	46.19	9.62	53.55	74.00	-20.45	peak
11650.042	36.47	9.62	47.64	54.00	-6.36	AVG
17475.063	39.87	10.75	48.61	68.20	-25.39	peak

Remark:
 Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Note: All test channels had been tested. All test antennas had been tested. The 802.11a20 of antenna 1 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

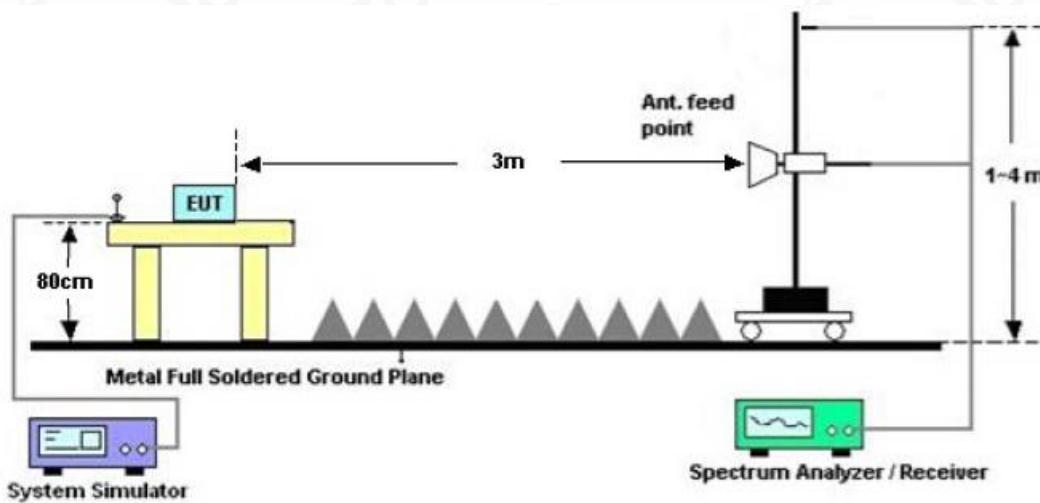
13.1. MEASUREMENT PROCEDURE

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 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.

13.2. TEST SET-UP



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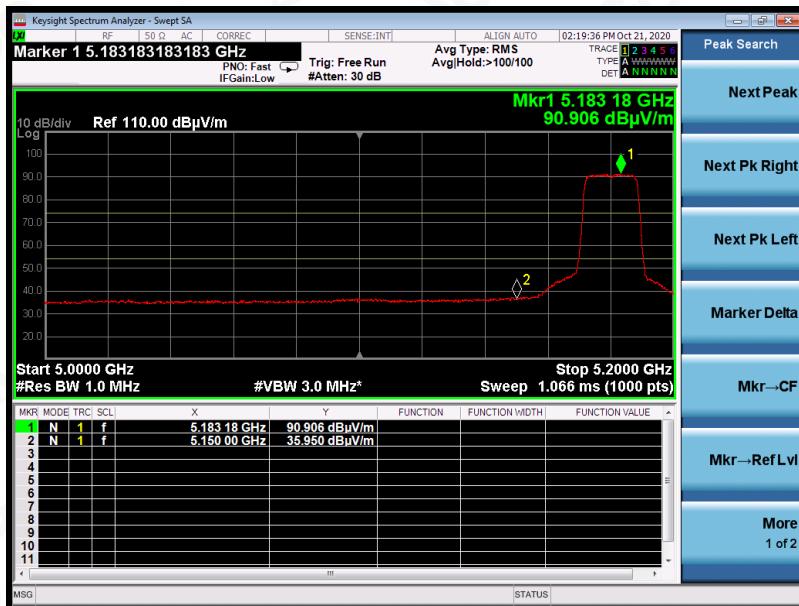
13.3. TEST RESULT

EUT	FOLDING DRONE	Model Name	F11GIM
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5180MHz	Antenna	Horizontal

PK Value



AV Value



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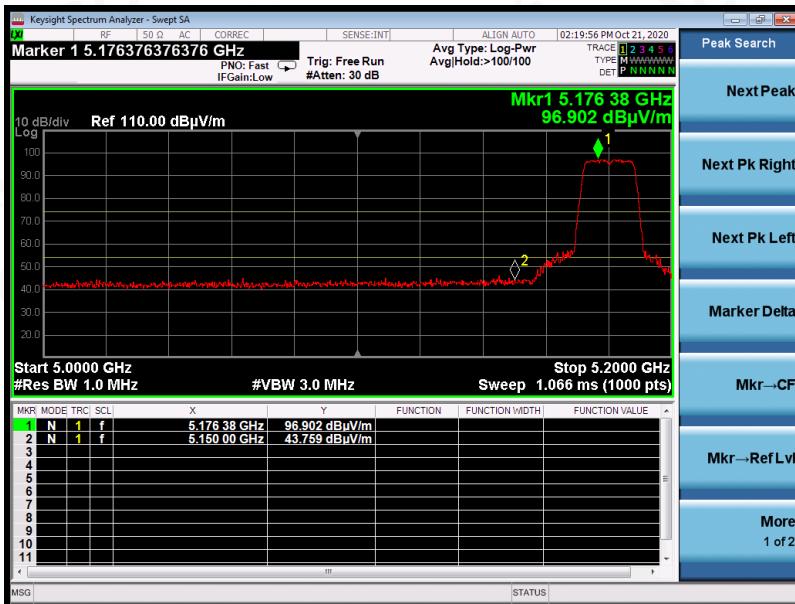
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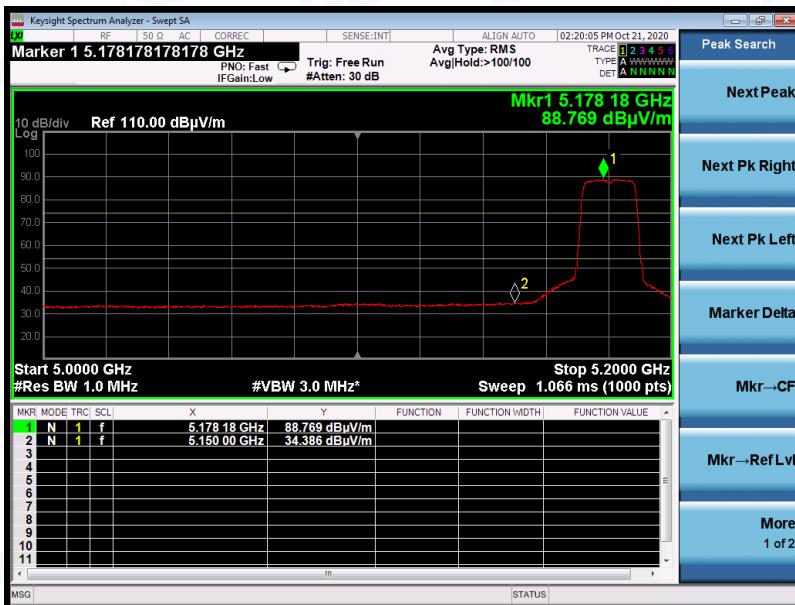


EUT	FOLDING DRONE	Model Name	F11GIM
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5180MHz	Antenna	Vertical

PK Value



AV Value



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EUT	FOLDING DRONE	Model Name	F11GIM
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n40 5190MHz	Antenna	Horizontal

PK Value



AV Value



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EUT	FOLDING DRONE	Model Name	F11GIM
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n40 5190MHz	Antenna	Vertical

PK Value



AV Value



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EUT	FOLDING DRONE	Model Name	F11GIM
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11ac80 5210MHz	Antenna	Horizontal

PK Value



AV Value



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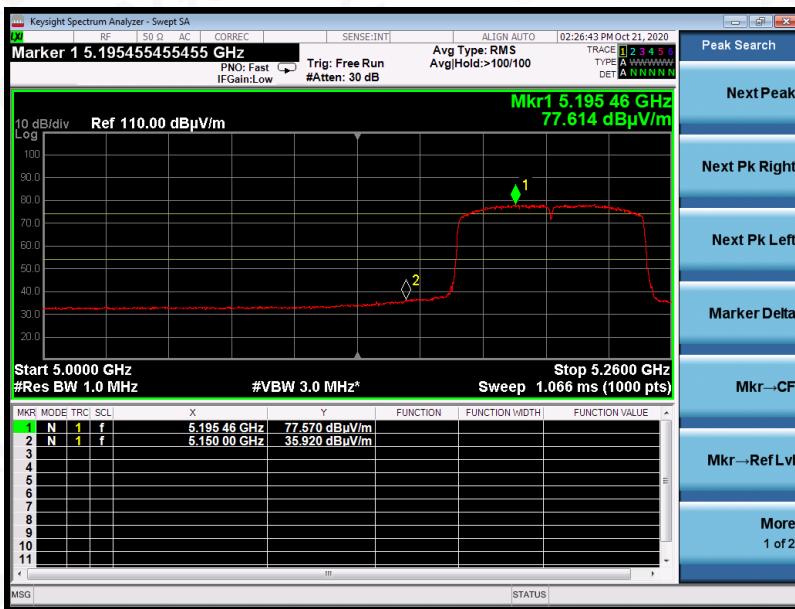
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EUT	FOLDING DRONE	Model Name	F11GIM
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11ac80 5210MHz	Antenna	Vertical

PK Value

AV Value

RESULT: PASS

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. All the 80MHz bandwidth modulation had been tested, the 802.11AC80 was the worst case and record in his test report.

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

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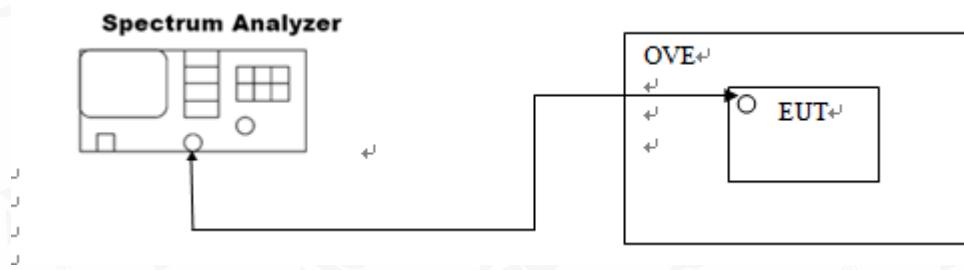


14. FREQUENCY STABILITY

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
802.11a	- 10°C	5180	5180.031	PASS
	0°C	5180	5180.035	PASS
	10°C	5180	5180.034	PASS
	20°C	5180	5180.038	PASS
	30°C	5180	5180.037	PASS
	40°C	5180	5180.039	PASS
	50°C	5180	5180.034	PASS
	60°C	5180	5180.035	PASS
	- 10°C	5240	5240.065	PASS
	0°C	5240	5240.064	PASS
	10°C	5240	5240.061	PASS
	20°C	5240	5240.066	PASS
	30°C	5240	5240.064	PASS
	40°C	5240	5240.062	PASS
	50°C	5240	5240.067	PASS
	60°C	5240	5240.068	PASS
	- 10°C	5745	5745.044	PASS
	0°C	5745	5745.045	PASS
	10°C	5745	5745.046	PASS
	20°C	5745	5745.044	PASS
	30°C	5745	5745.045	PASS
	40°C	5745	5745.045	PASS
	50°C	5745	5745.046	PASS
	60°C	5745	5745.044	PASS
	- 10°C	5825	5825.055	PASS
	0°C	5825	5825.057	PASS
	10°C	5825	5825.058	PASS
	20°C	5825	5825.054	PASS
	30°C	5825	5825.055	PASS
	40°C	5825	5825.054	PASS
	50°C	5825	5825.052	PASS
	60°C	5825	5825.054	PASS

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Test Mode	Temperature	Measurement Frequency (MHz)	Result	Conclusion
802.11n20	- 10°C	5180	5180.043	PASS
	0°C	5180	5180.044	PASS
	10°C	5180	5180.048	PASS
	20°C	5180	5180.047	PASS
	30°C	5180	5180.045	PASS
	40°C	5180	5180.049	PASS
	50°C	5180	5180.044	PASS
	60°C	5180	5180.045	PASS
	- 10°C	5240	5240.052	PASS
	0°C	5240	5240.054	PASS
	10°C	5240	5240.055	PASS
	20°C	5240	5240.054	PASS
	30°C	5240	5240.056	PASS
	40°C	5240	5240.057	PASS
	50°C	5240	5240.054	PASS
	60°C	5240	5240.055	PASS
	- 10°C	5700	5700.051	PASS
	60°C	5700	5700.055	PASS
	- 10°C	5745	5745.048	PASS
	0°C	5745	5745.044	PASS
	10°C	5745	5745.045	PASS
	20°C	5745	5745.044	PASS
	30°C	5745	5745.041	PASS
	40°C	5745	5745.045	PASS
	50°C	5745	5745.045	PASS
	60°C	5745	5745.041	PASS
	- 10°C	5825	5825.056	PASS
	0°C	5825	5825.054	PASS
	10°C	5825	5825.045	PASS
	20°C	5825	5825.042	PASS
	30°C	5825	5825.044	PASS
	40°C	5825	5825.048	PASS
	50°C	5825	5825.047	PASS
	60°C	5825	5825.045	PASS

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Test Mode	Temperature	Measurement Frequency (MHz)	Result	Conclusion
802.11n40	- 10°C	5190	5190.056	PASS
	0°C	5190	5190.054	PASS
	10°C	5190	5190.055	PASS
	20°C	5190	5190.051	PASS
	30°C	5190	5190.054	PASS
	40°C	5190	5190.055	PASS
	50°C	5190	5190.057	PASS
	60°C	5190	5190.058	PASS
	- 10°C	5230	5230.045	PASS
	0°C	5230	5230.046	PASS
	10°C	5230	5230.045	PASS
	20°C	5230	5230.043	PASS
	30°C	5230	5230.045	PASS
	40°C	5230	5230.044	PASS
	50°C	5230	5230.046	PASS
	60°C	5230	5230.047	PASS
	- 10°C	5755	5755.048	PASS
	0°C	5755	5755.049	PASS
	10°C	5755	5755.044	PASS
	20°C	5755	5755.045	PASS
	30°C	5755	5755.045	PASS
	40°C	5755	5755.046	PASS
	50°C	5755	5755.0454	PASS
	60°C	5755	5755.048	PASS
	- 10°C	5795	5795.066	PASS
	0°C	5795	5795.064	PASS
	10°C	5795	5795.066	PASS
	20°C	5795	5795.064	PASS
	30°C	5795	5795.065	PASS
	40°C	5795	5795.061	PASS
	50°C	5795	5795.062	PASS
	60°C	5795	5795.061	PASS

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Test Mode	Temperature	Measurement Frequency (MHz)	Result	Conclusion
802.11ac20	- 10°C	5180	5180.036	PASS
	0°C	5180	5180.034	PASS
	10°C	5180	5180.035	PASS
	20°C	5180	5180.037	PASS
	30°C	5180	5180.038	PASS
	40°C	5180	5180.034	PASS
	50°C	5180	5180.035	PASS
	60°C	5180	5180.031	PASS
	- 10°C	5240	5240.055	PASS
	0°C	5240	5240.052	PASS
	10°C	5240	5240.054	PASS
	20°C	5240	5240.057	PASS
	30°C	5240	5240.057	PASS
	40°C	5240	5240.055	PASS
	50°C	5240	5240.056	PASS
	60°C	5240	5240.054	PASS
	60°C	5500	5500.061	PASS
	- 10°C	5745	5745.042	PASS
	0°C	5745	5745.043	PASS
	10°C	5745	5745.045	PASS
	20°C	5745	5745.045	PASS
	30°C	5745	5745.047	PASS
	40°C	5745	5745.048	PASS
	50°C	5745	5745.04	PASS
	60°C	5745	5745.046	PASS
	- 10°C	5825	5825.054	PASS
	0°C	5825	5825.058	PASS
	10°C	5825	5825.049	PASS
	20°C	5825	5825.044	PASS
	30°C	5825	5825.045	PASS
	40°C	5825	5825.041	PASS
	50°C	5825	5825.045	PASS
	60°C	5825	5825.046	PASS

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Test Mode	Temperature	Measurement Frequency (MHz)	Result	Conclusion
802.11ac40	- 10°C	5190	5190.056	PASS
	0°C	5190	5190.057	PASS
	10°C	5190	5190.058	PASS
	20°C	5190	5190.059	PASS
	30°C	5190	5190.054	PASS
	40°C	5190	5190.055	PASS
	50°C	5190	5190.056	PASS
	60°C	5190	5190.051	PASS
	- 10°C	5230	5230.045	PASS
	0°C	5230	5230.047	PASS
	10°C	5230	5230.045	PASS
	20°C	5230	5230.044	PASS
	30°C	5230	5230.046	PASS
	40°C	5230	5230.044	PASS
	50°C	5230	5230.048	PASS
	60°C	5230	5230.049	PASS
	- 10°C	5755	5755.044	PASS
	0°C	5755	5755.045	PASS
	10°C	5755	5755.046	PASS
	20°C	5755	5755.041	PASS
	30°C	5755	5755.042	PASS
	40°C	5755	5755.044	PASS
	50°C	5755	5755.045	PASS
	60°C	5755	5755.048	PASS
	- 10°C	5795	5795.064	PASS
	0°C	5795	5795.065	PASS
	10°C	5795	5795.061	PASS
	20°C	5795	5795.062	PASS
	30°C	5795	5795.064	PASS
	40°C	5795	5795.066	PASS
	50°C	5795	5795.068	PASS
	60°C	5795	5795.067	PASS

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Test Mode	Temperature	Measurement Frequency (MHz)	Result	Conclusion
802.11ac80	- 10°C	5210	5210.043	PASS
	0°C	5210	5210.045	PASS
	10°C	5210	5210.048	PASS
	20°C	5210	5210.044	PASS
	30°C	5210	5210.047	PASS
	40°C	5210	5210.045	PASS
	50°C	5210	5210.046	PASS
	60°C	5210	5210.044	PASS
	- 10°C	5290	5290.075	PASS
	0°C	5290	5290.074	PASS
	10°C	5290	5290.071	PASS
	20°C	5290	5290.072	PASS
	30°C	5290	5290.075	PASS
	40°C	5290	5290.078	PASS
	50°C	5290	5290.074	PASS
	60°C	5290	5290.077	PASS
	- 10°C	5775	5775.054	PASS
	0°C	5775	5775.055	PASS
	10°C	5775	5775.055	PASS
	20°C	5775	5775.055	PASS
	30°C	5775	5775.054	PASS
	40°C	5775	5775.055	PASS
	50°C	5775	5775.055	PASS
	60°C	5775	5775.052	PASS

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15. FCC LINE CONDUCTED EMISSION TEST

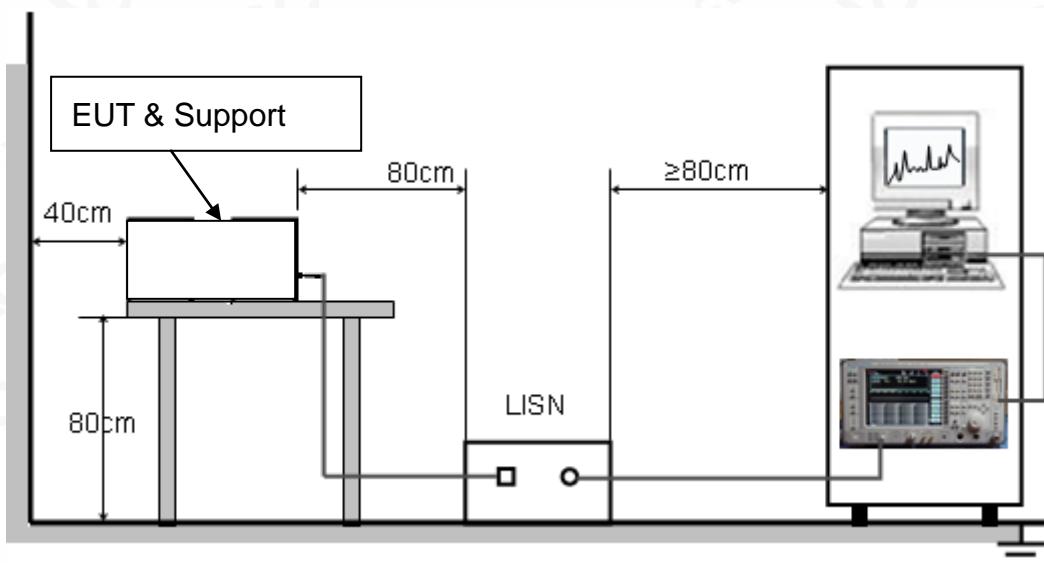
15.1. LIMITS OF LINE CONDUCTED EMISSION TEST

Frequency	Maximum RF Line Voltage	
	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

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

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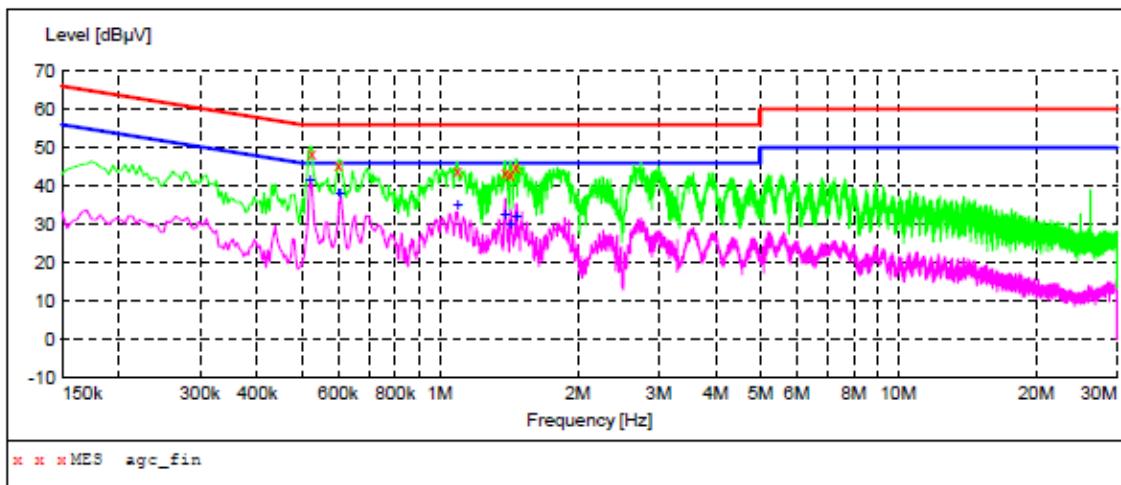
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15.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

LINE CONDUCTED EMISSION TEST-L



MEASUREMENT RESULT: "agc_fin"

2020/10/26 11:52

Frequency MHz	Level dB μ V	Transd dB	Limit dB μ V	Margin dB	Detector	Line
0.526000	48.40	11.3	56	7.6	QP	L1
0.602000	45.30	11.3	56	10.7	QP	L1
1.094000	43.80	11.3	56	12.2	QP	L1
1.390000	43.30	11.3	56	12.7	QP	L1
1.426000	42.80	11.3	56	13.2	QP	L1
1.466000	44.80	11.3	56	11.2	QP	L1

MEASUREMENT RESULT: "agc_fin2"

2020/10/26 11:52

Frequency MHz	Level dB μ V	Transd dB	Limit dB μ V	Margin dB	Detector	Line
0.522000	41.40	11.3	46	4.6	AV	L1
0.606000	37.90	11.3	46	8.1	AV	L1
1.094000	34.80	11.3	46	11.2	AV	L1
1.390000	32.30	11.3	46	13.7	AV	L1
1.426000	30.00	11.3	46	16.0	AV	L1
1.470000	31.80	11.3	46	14.2	AV	L1

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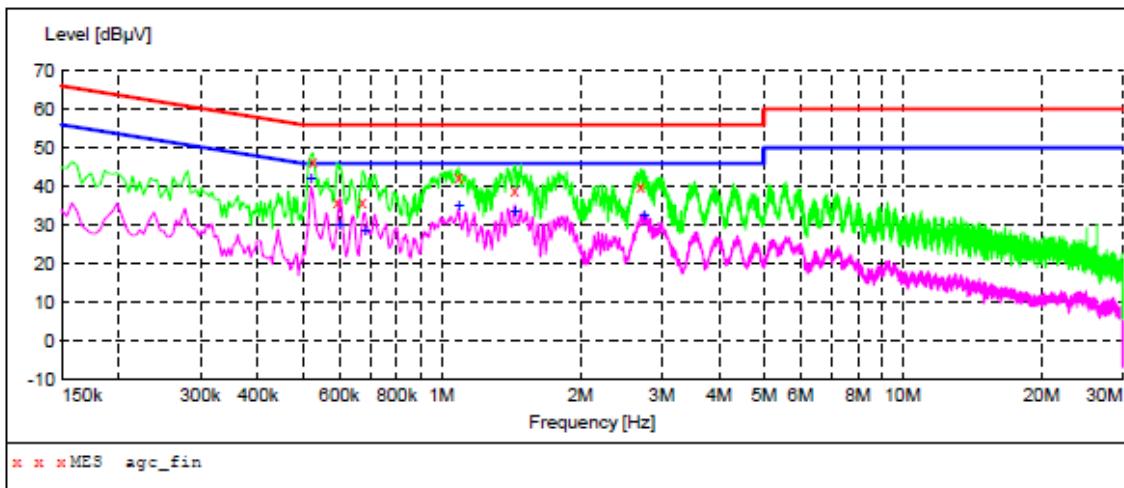
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LINE CONDUCTED EMISSION TEST-N



MEASUREMENT RESULT: "agc_fin"

2020/10/26 11:49

Frequency MHz	Level dB μ V	Transd dB	Limit dB μ V	Margin dB	Detector	Line
0.526000	46.50	11.3	56	9.5	QP	N
0.594000	36.00	11.3	56	20.0	QP	N
0.674000	36.00	11.3	56	20.0	QP	N
1.090000	42.50	11.3	56	13.5	QP	N
1.442000	39.10	11.3	56	16.9	QP	N
2.706000	40.10	11.4	56	15.9	QP	N

MEASUREMENT RESULT: "agc_fin2"

2020/10/26 11:49

Frequency MHz	Level dB μ V	Transd dB	Limit dB μ V	Margin dB	Detector	Line
0.522000	42.10	11.3	46	3.9	AV	N
0.602000	30.00	11.3	46	16.0	AV	N
0.682000	28.50	11.3	46	17.5	AV	N
1.090000	35.00	11.3	46	11.0	AV	N
1.442000	33.70	11.3	46	12.3	AV	N
2.746000	32.40	11.4	46	13.6	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**

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FCC RADIATED EMISSION TEST SETUP ABOVE 1GHZ



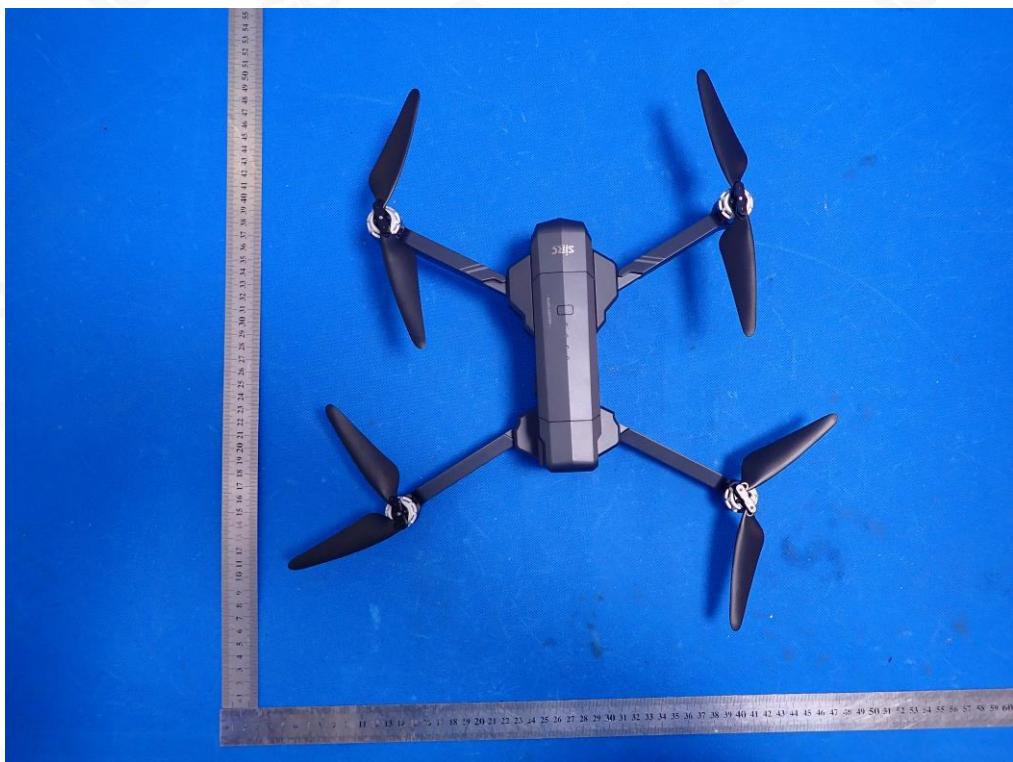
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APPENDIX B: PHOTOGRAPHS OF EUT
ALL VIEW OF EUT**TOP VIEW OF EUT**

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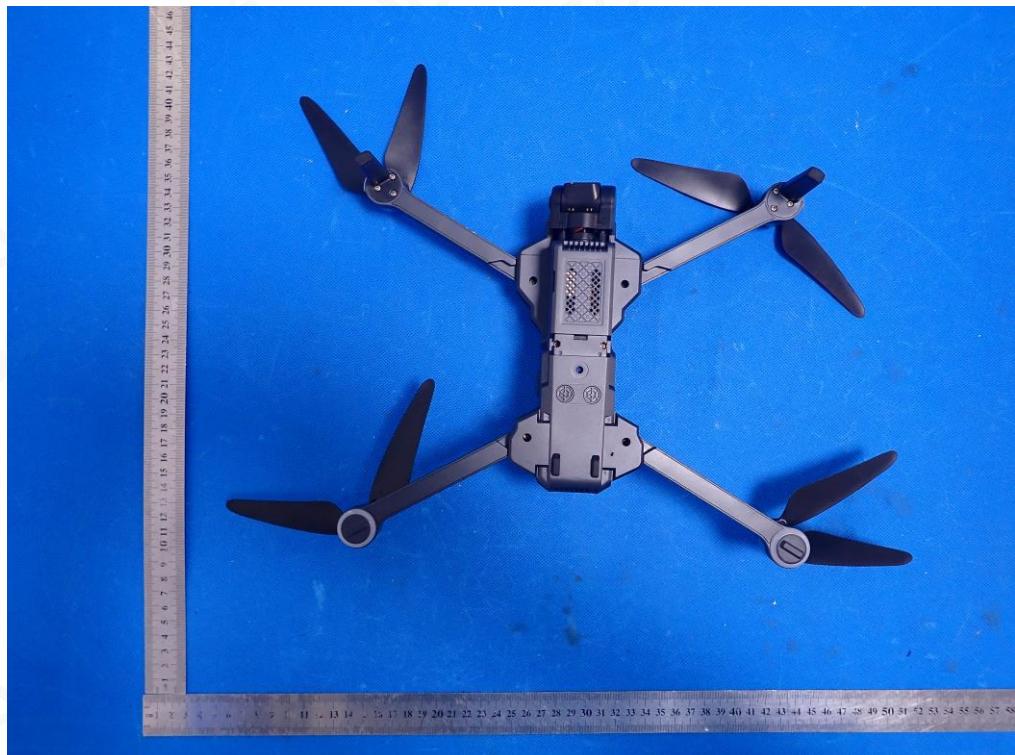
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BOTTOM VIEW OF EUT



FRONT VIEW OF EUT



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BACK VIEW OF EUT



LEFT VIEW OF EUT



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