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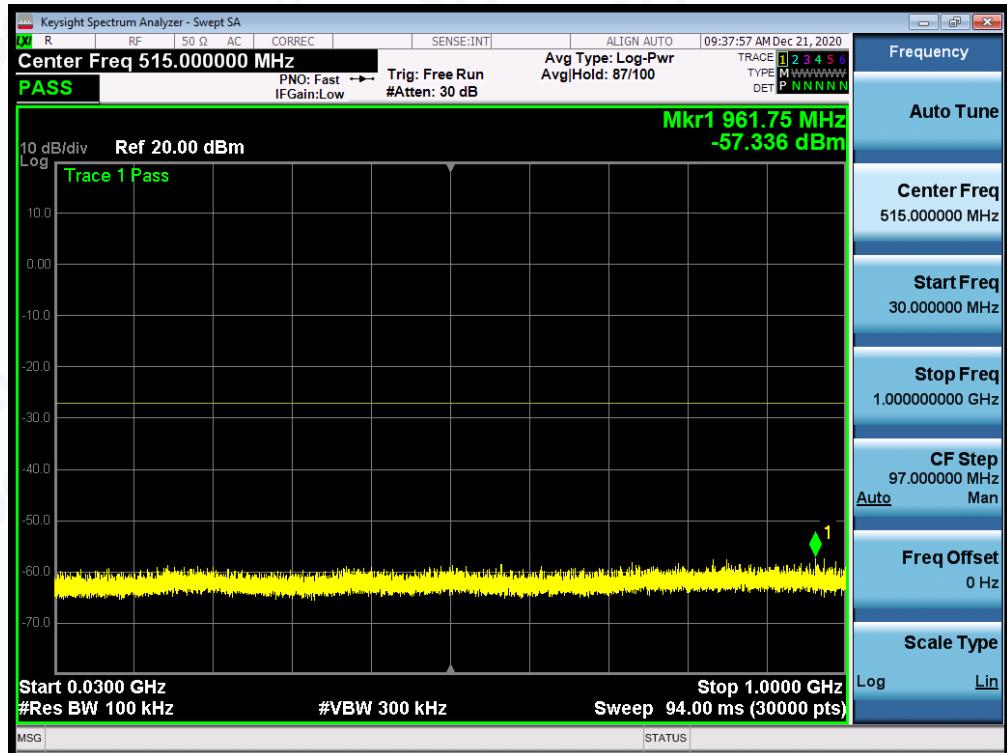
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TEST PLOT OF OUT OF BAND EMISSIONS FOR MODULATION IN 5670MHz



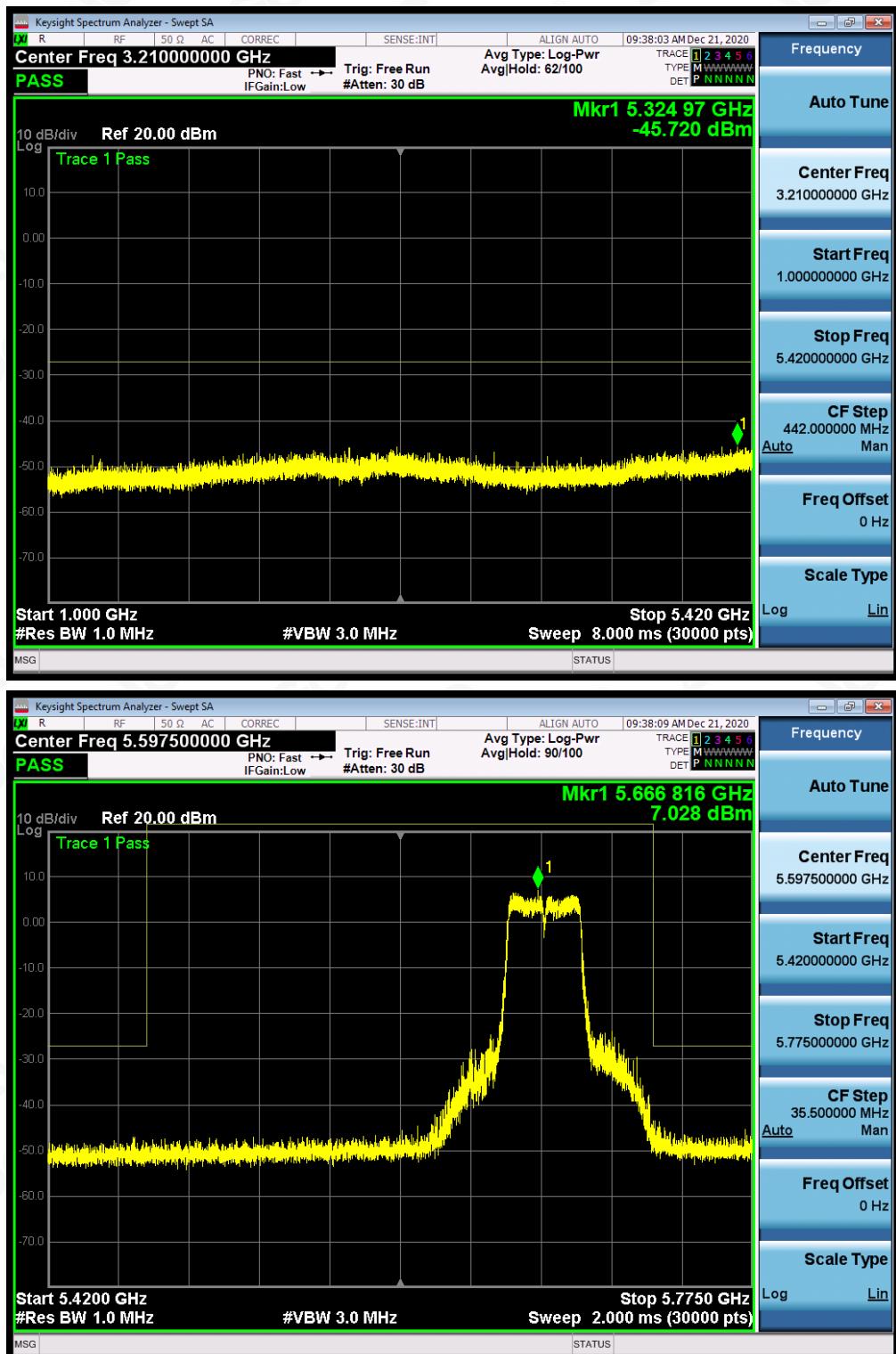
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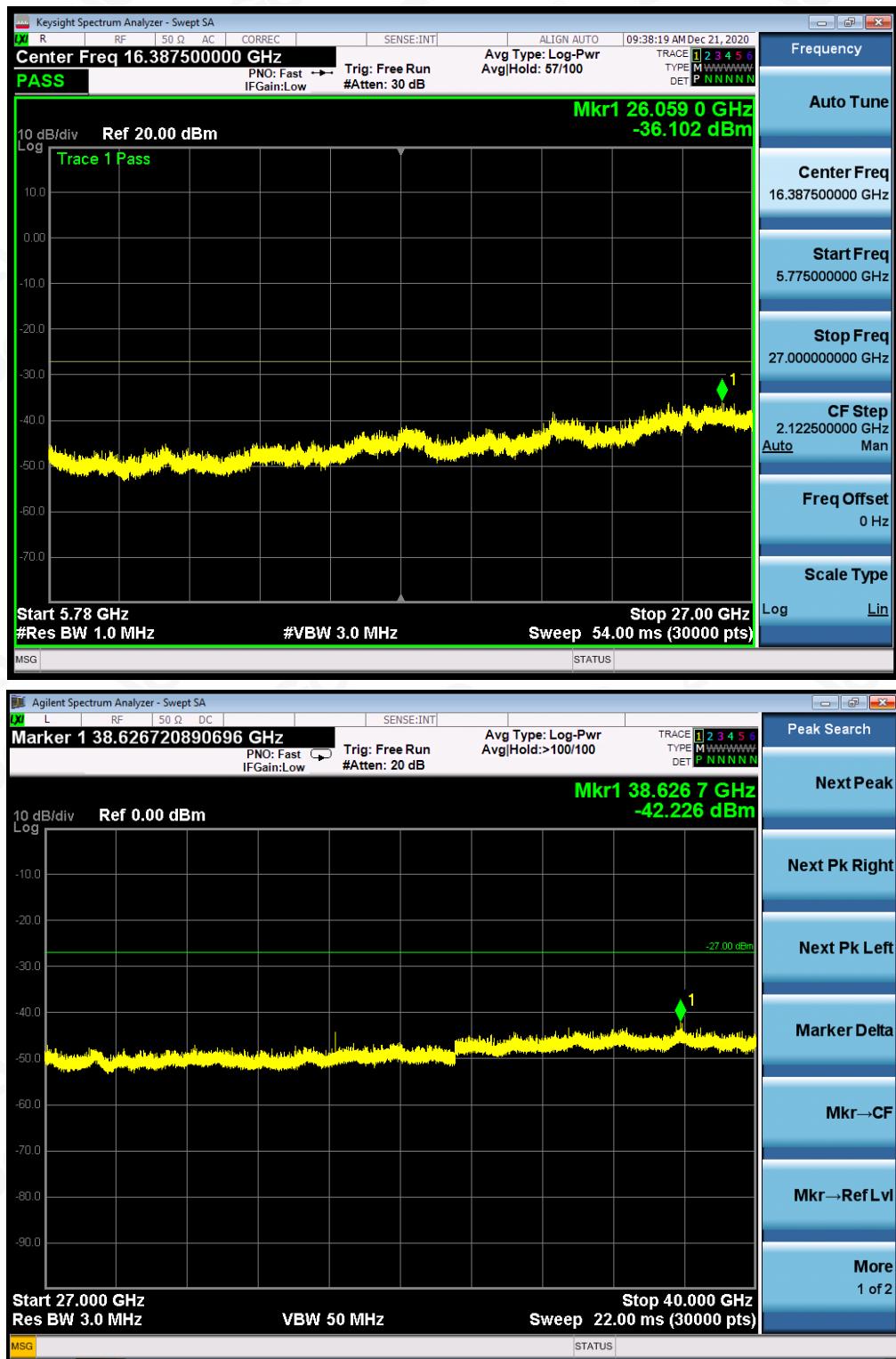
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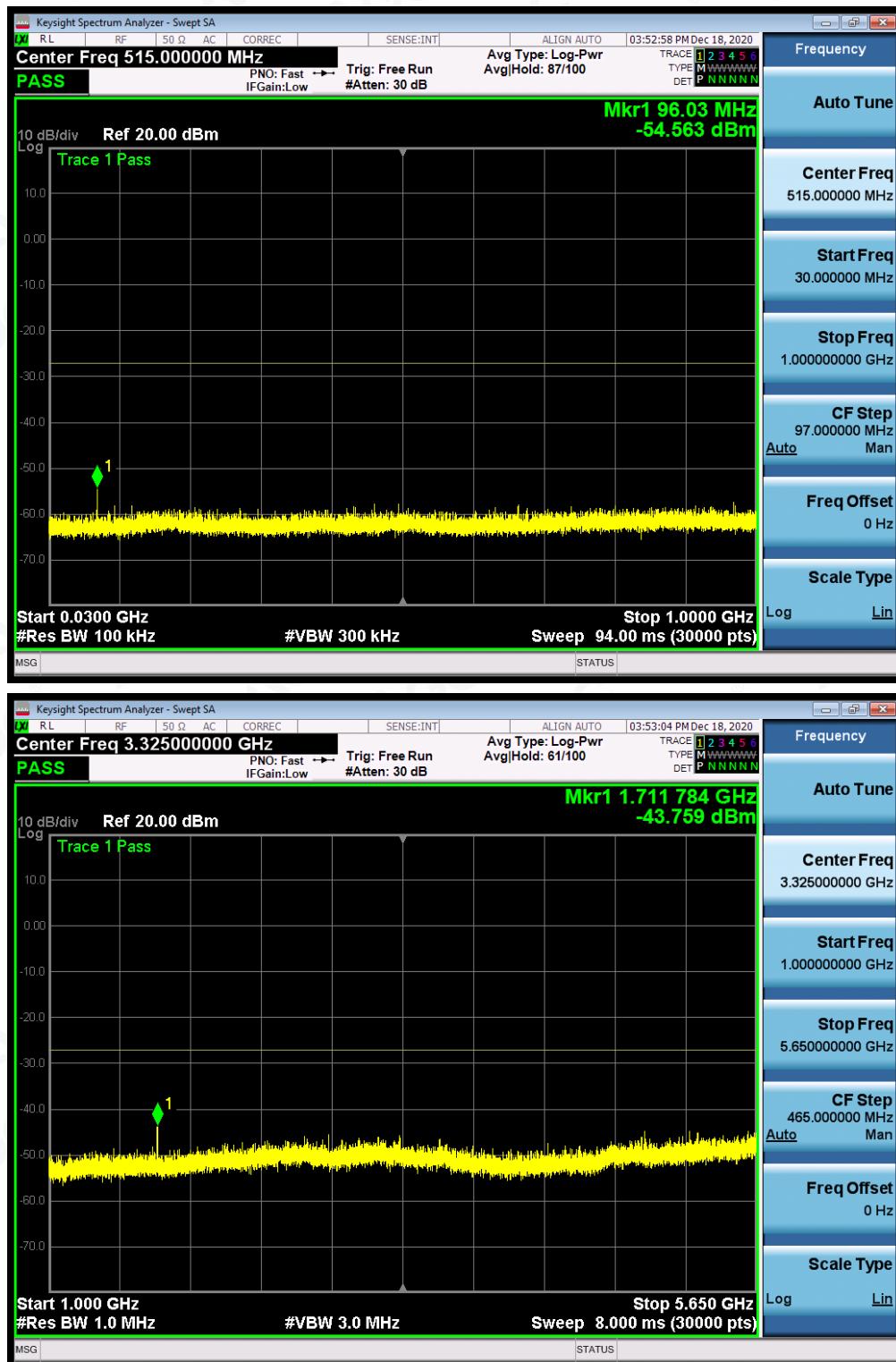
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TEST PLOT OF OUT OF BAND EMISSIONS FOR MODULATION IN 5755MHz



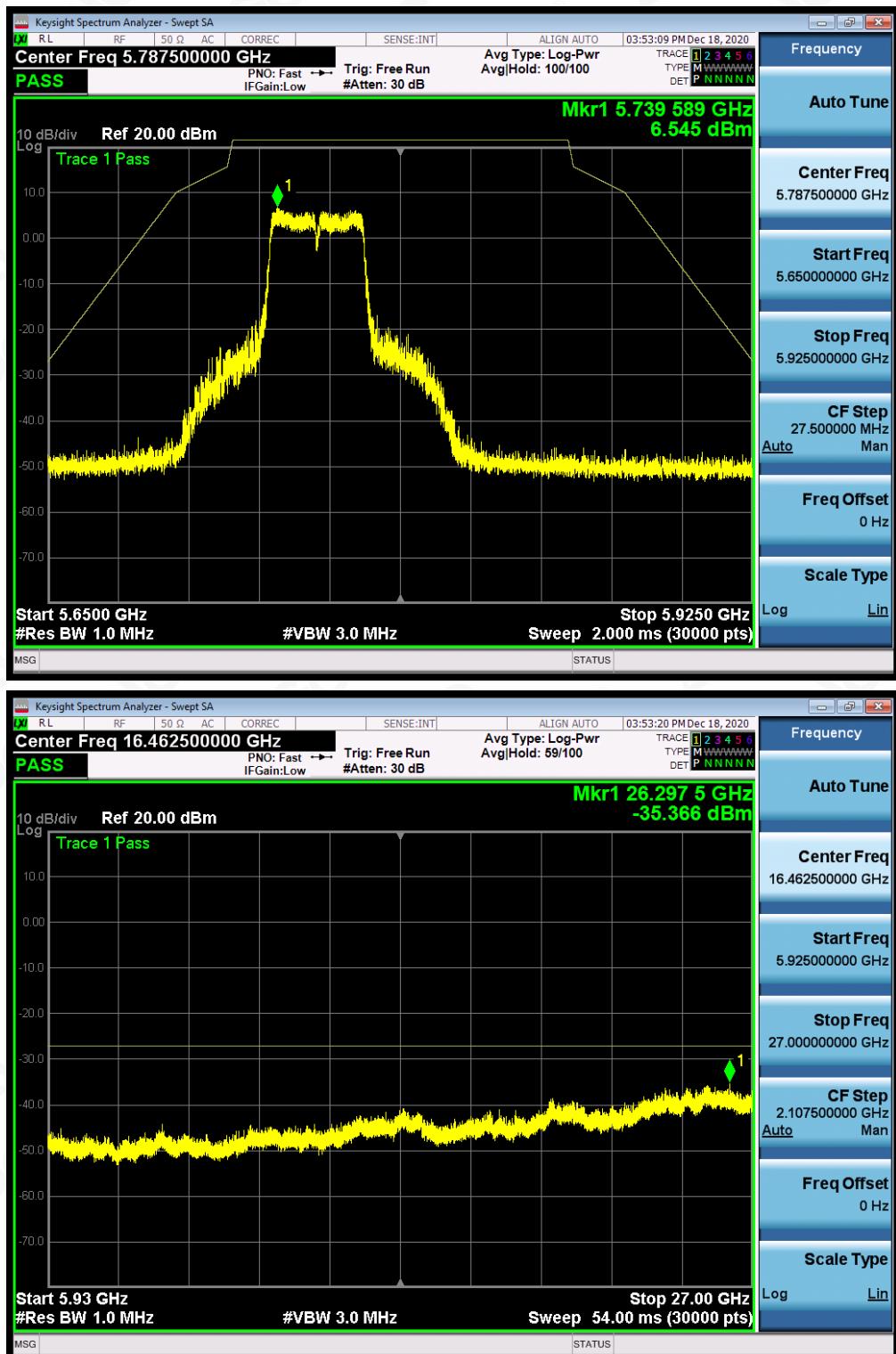
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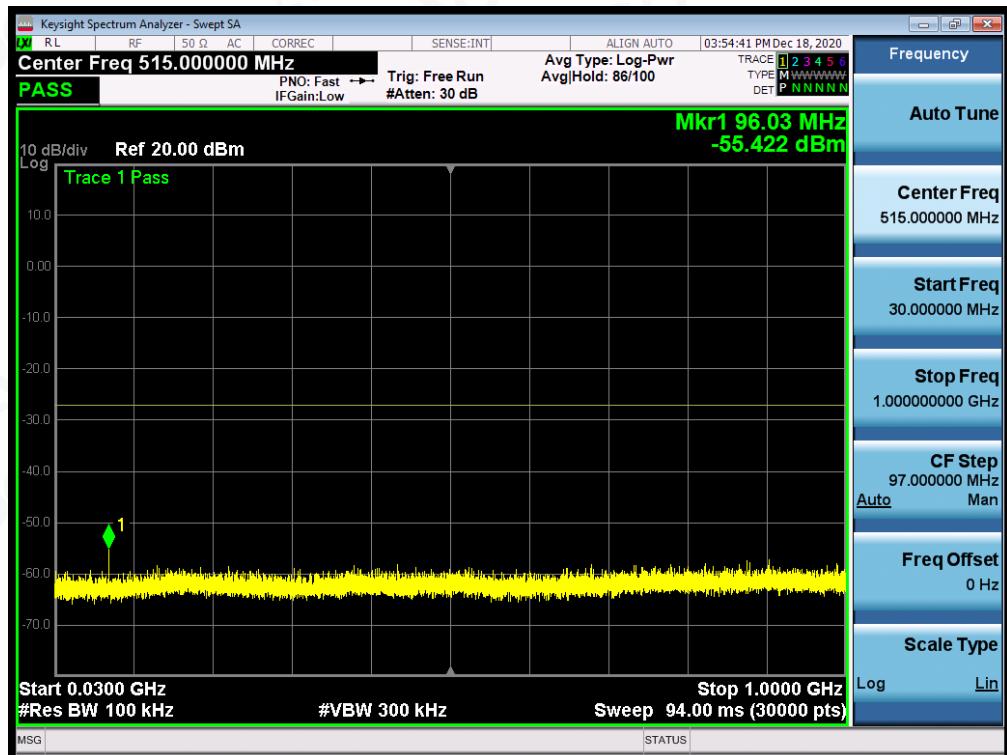
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TEST PLOT OF OUT OF BAND EMISSIONS FOR MODULATION IN 5795M



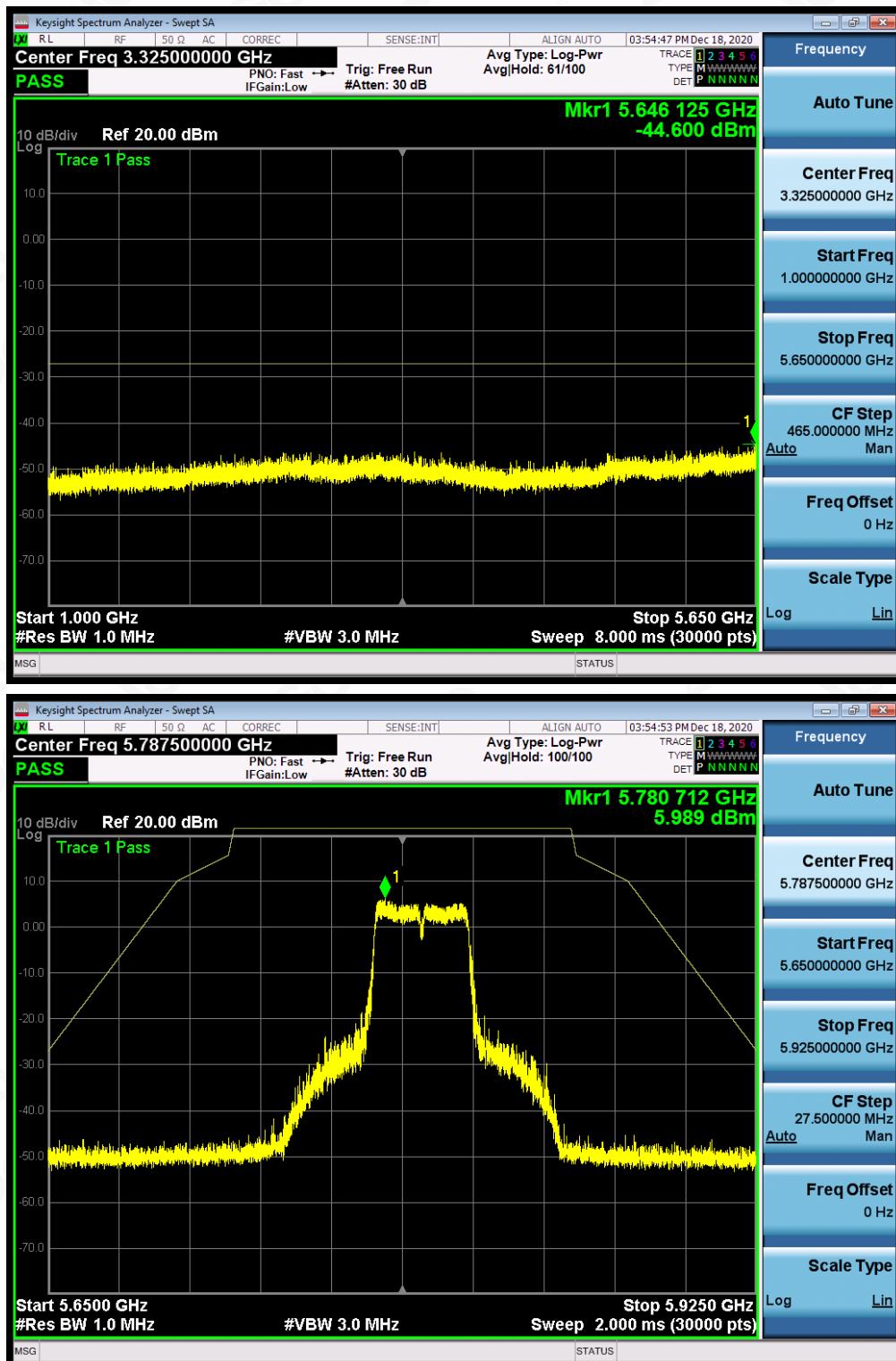
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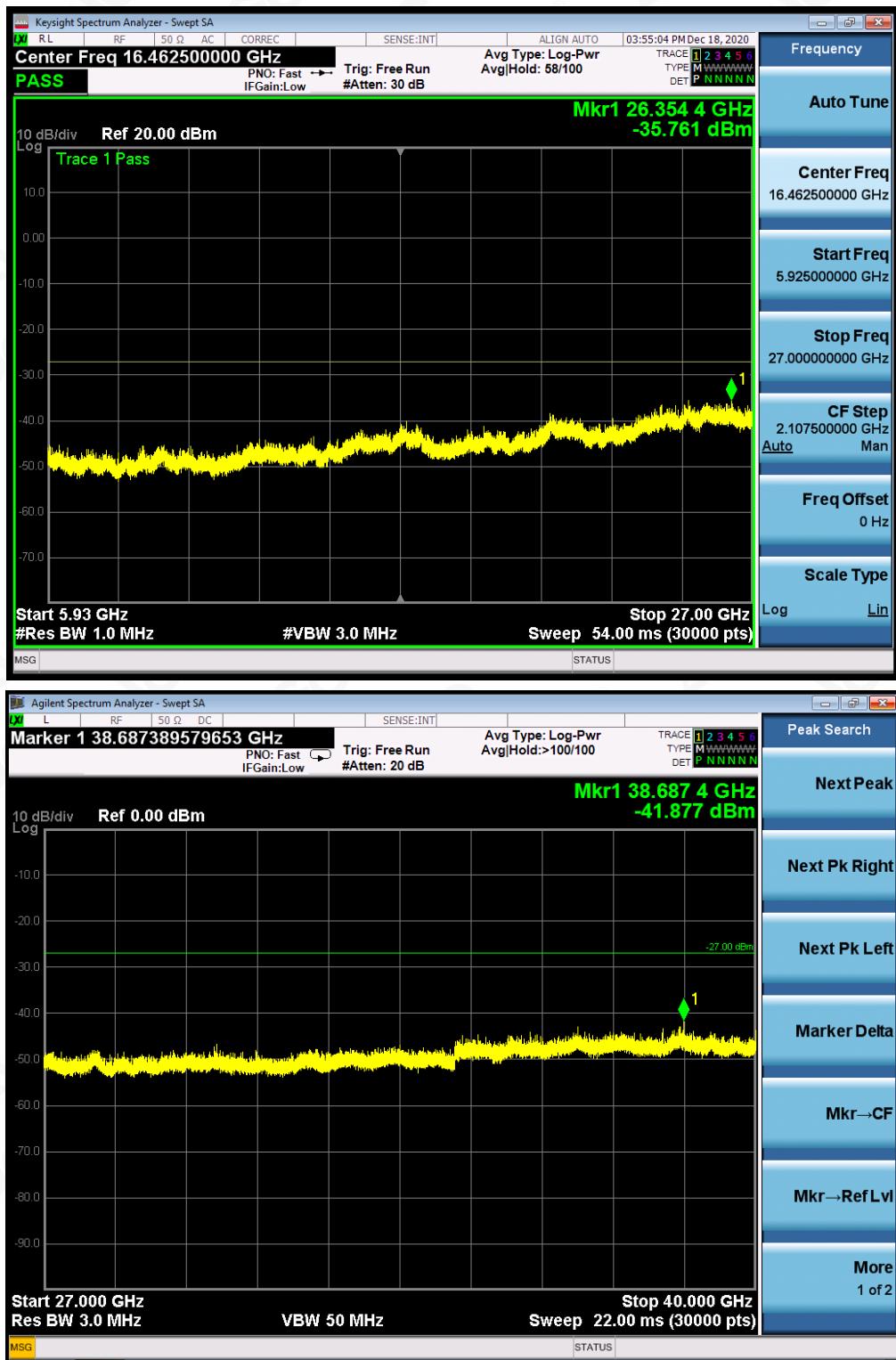
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Note: All the 20MHz bandwidth modulation had been tested, the 802.11a20 was the worst case and record in his test report. All the 40MHz bandwidth modulation had been tested, the 802.11N40 was the worst case and record in his test report..

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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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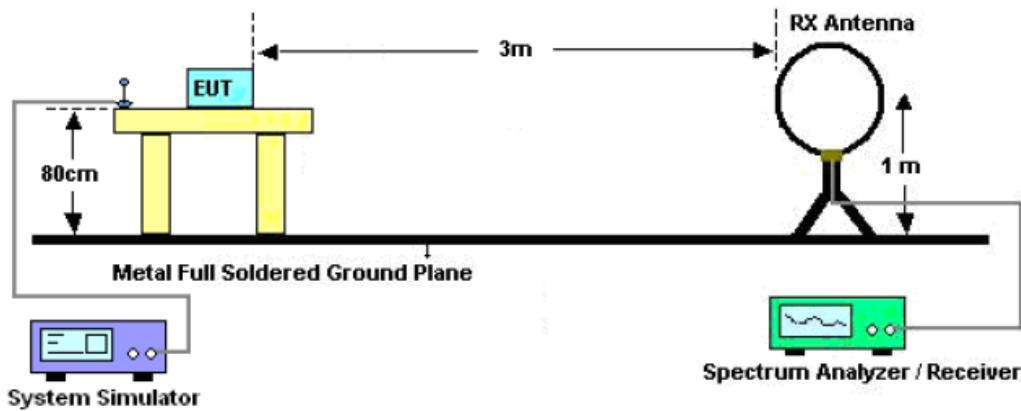
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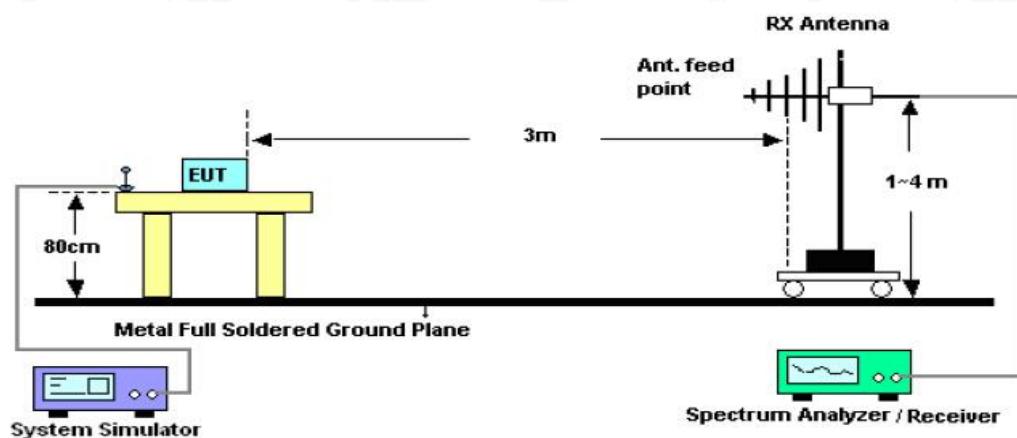


12.2. TEST SETUP

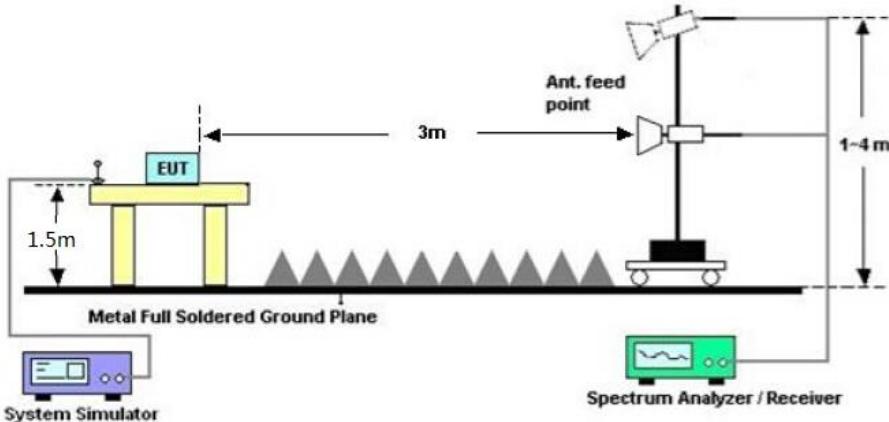
Radiated Emission Test-Setup Frequency Below 30MHz



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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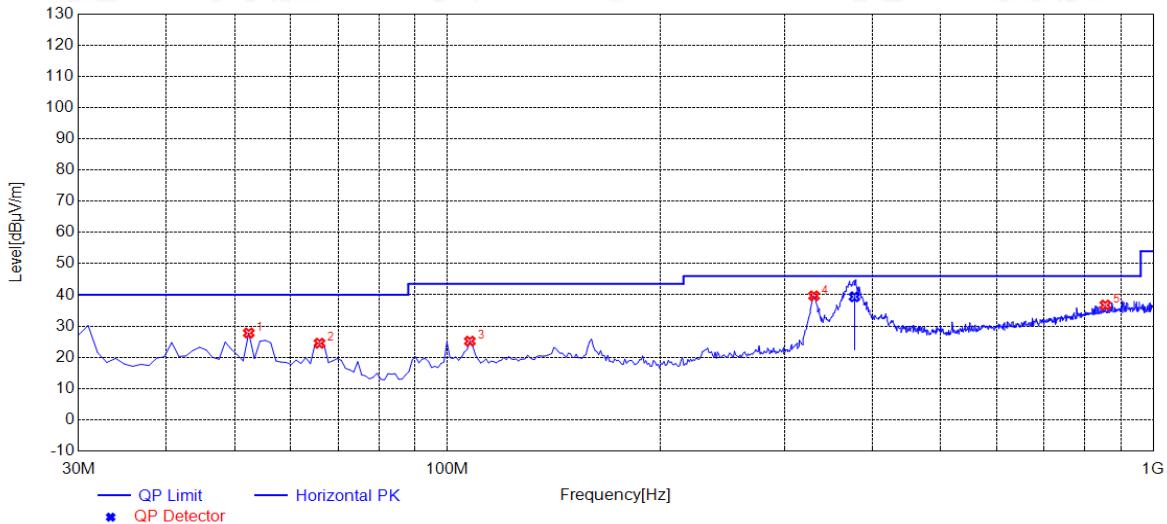
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RADIATED EMISSION BELOW 1GHZ

EUT	IMILAB C30	Model Name	CMSXJ21E
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5180MHz	Antenna	Horizontal


Peak data list

NO.	Freq. [MHz]	Level [dB μ V/m]	Factor [dB]	Limit [dB μ V/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	52.3100	27.80	11.49	40.00	12.20	200	197	Horizontal
2	65.8900	24.51	9.93	40.00	15.49	200	288	Horizontal
3	107.6000	25.18	12.17	43.50	18.32	100	192	Horizontal
4	330.7000	39.69	17.10	46.00	6.31	100	272	Horizontal
5	855.4700	36.74	29.42	46.00	9.26	200	265	Horizontal

QP data list

NO.	Freq. [MHz]	Factor [dB]	QP Value [dB μ V/m]	QP Limit [dB μ V/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	377.4102	18.91	39.41	46.00	6.59	108.3	237.5	Horizontal

RESULT: PASS

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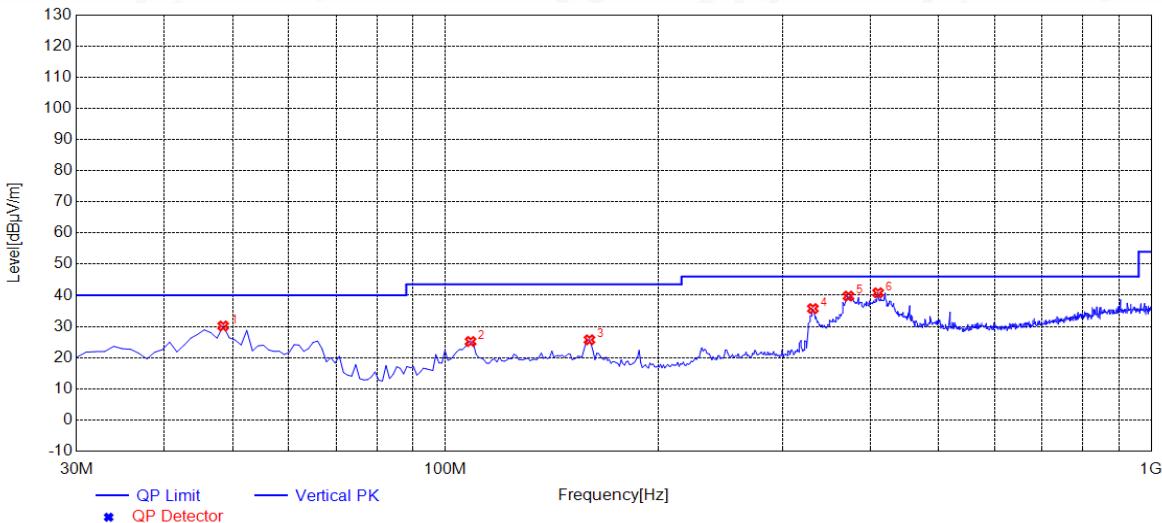
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EUT	IMILAB C30	Model Name	CMSXJ21E
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5180MHz	Antenna	Vertical



NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	48.4300	30.17	11.71	40.00	9.83	100	359	Vertical
2	108.5700	25.19	12.27	43.50	18.31	100	140	Vertical
3	159.9800	25.74	14.94	43.50	17.76	100	234	Vertical
4	331.6700	35.75	17.15	46.00	10.25	100	359	Vertical
5	372.4100	39.76	18.70	46.00	6.24	100	38	Vertical
6	410.2400	40.81	20.02	46.00	5.19	100	1	Vertical

RESULT: PASS

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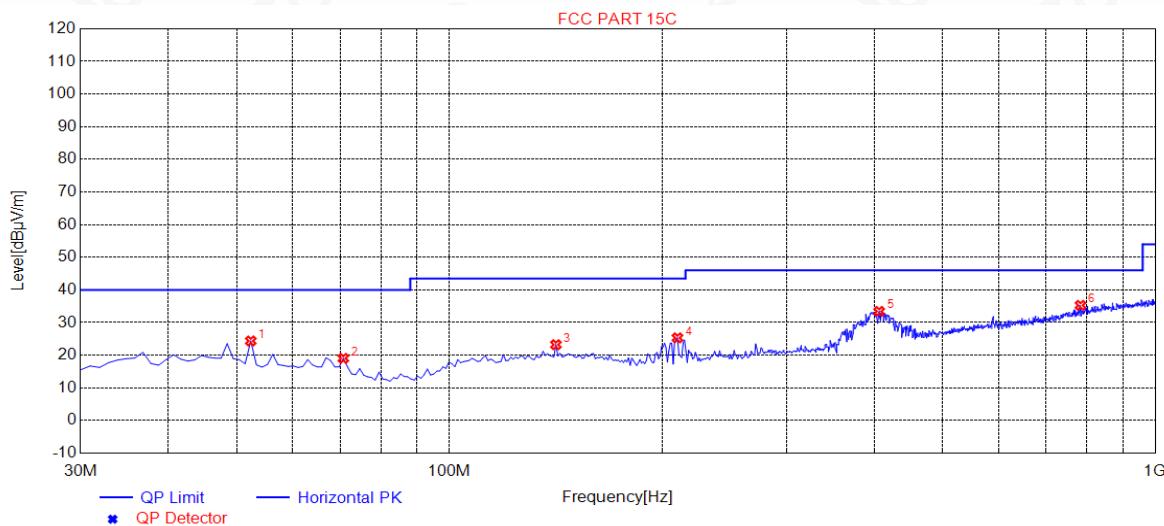
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EUT	IMILAB C30	Model Name	CMSXJ21E
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5260MHz	Antenna	Horizontal



NO.	Freq. [MHz]	Level [dB μ V/m]	Factor [dB]	Limit [dB μ V/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	52.3100	24.38	11.49	40.00	15.62	100	213	Horizontal
2	70.7400	19.05	9.07	40.00	20.95	100	282	Horizontal
3	141.5500	23.24	14.88	43.50	20.26	100	301	Horizontal
4	210.4200	25.33	12.69	43.50	18.17	100	288	Horizontal
5	406.3600	33.44	19.97	46.00	12.56	100	357	Horizontal
6	783.6900	35.29	28.06	46.00	10.71	100	66	Horizontal

RESULT: PASS

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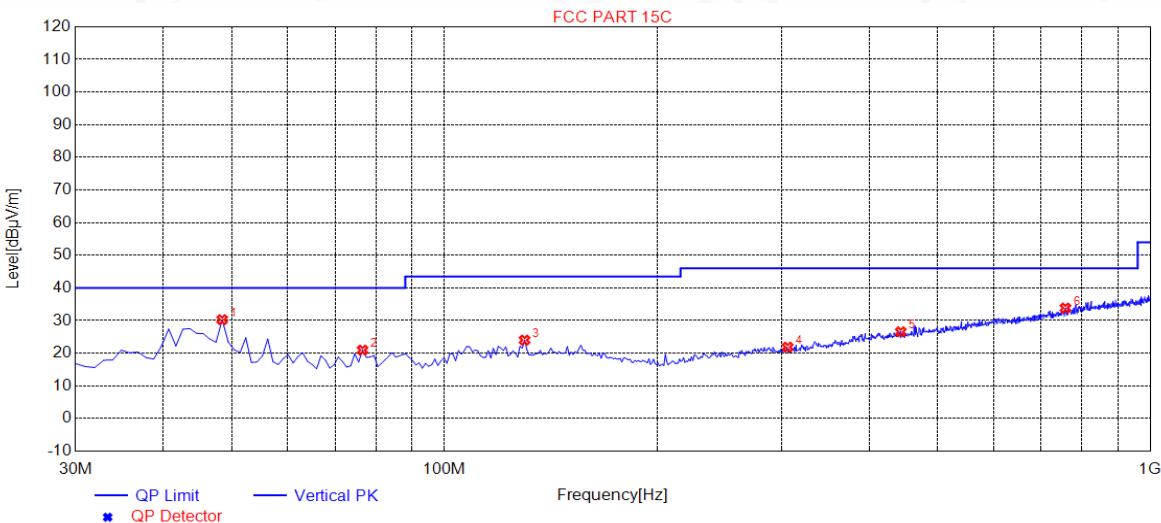
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EUT	IMILAB C30	Model Name	CMSXJ21E
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5260MHz	Antenna	Vertical



NO.	Freq. [MHz]	Level [dB μ V/m]	Factor [dB]	Limit [dB μ V/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	48.4300	30.29	11.71	40.00	9.71	100	244	Vertical
2	76.5600	20.97	7.87	40.00	19.03	100	218	Vertical
3	129.9100	24.03	14.14	43.50	19.47	100	258	Vertical
4	306.4500	21.87	16.14	46.00	24.13	100	248	Vertical
5	443.2200	26.57	20.84	46.00	19.43	100	1	Vertical
6	758.4700	33.85	27.39	46.00	12.15	100	72	Vertical

RESULT: PASS

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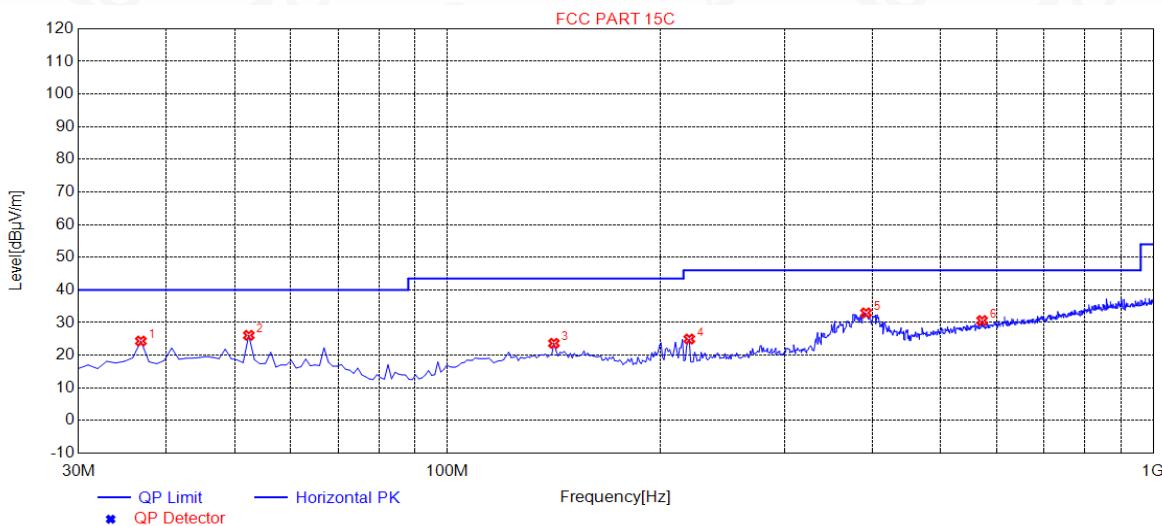
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EUT	IMILAB C30	Model Name	CMSXJ21E
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5500MHz	Antenna	Horizontal



NO.	Freq. [MHz]	Level [dB μ V/m]	Factor [dB]	Limit [dB μ V/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	36.7900	24.35	11.16	40.00	15.65	100	127	Horizontal
2	52.3100	26.10	11.49	40.00	13.90	100	210	Horizontal
3	141.5500	23.66	14.88	43.50	19.84	100	140	Horizontal
4	220.1200	24.97	13.30	46.00	21.03	100	282	Horizontal
5	391.8100	32.98	19.48	46.00	13.02	100	68	Horizontal
6	572.2300	30.64	23.73	46.00	15.36	100	262	Horizontal

RESULT: PASS

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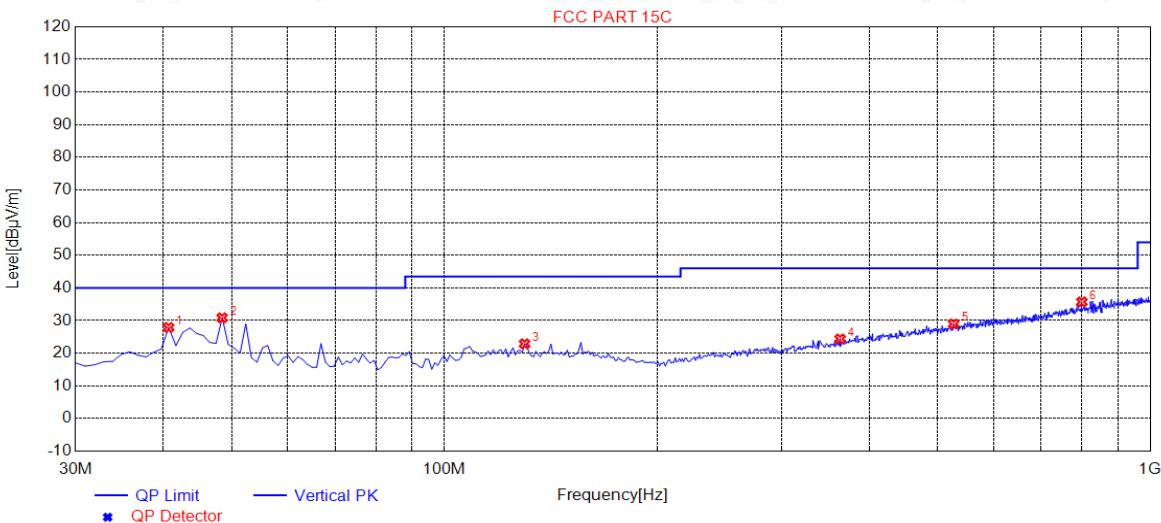
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EUT	IMILAB C30	Model Name	CMSXJ21E
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5500MHz	Antenna	Vertical



NO.	Freq. [MHz]	Level [dB μ V/m]	Factor [dB]	Limit [dB μ V/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	40.6700	27.93	11.91	40.00	12.07	100	324	Vertical
2	48.4300	30.86	11.71	40.00	9.14	100	47	Vertical
3	129.9100	22.90	14.14	43.50	20.60	100	244	Vertical
4	363.6800	24.39	18.39	46.00	21.61	100	149	Vertical
5	526.6400	28.97	22.77	46.00	17.03	100	307	Vertical
6	800.1800	35.73	28.51	46.00	10.27	100	118	Vertical

RESULT: PASS

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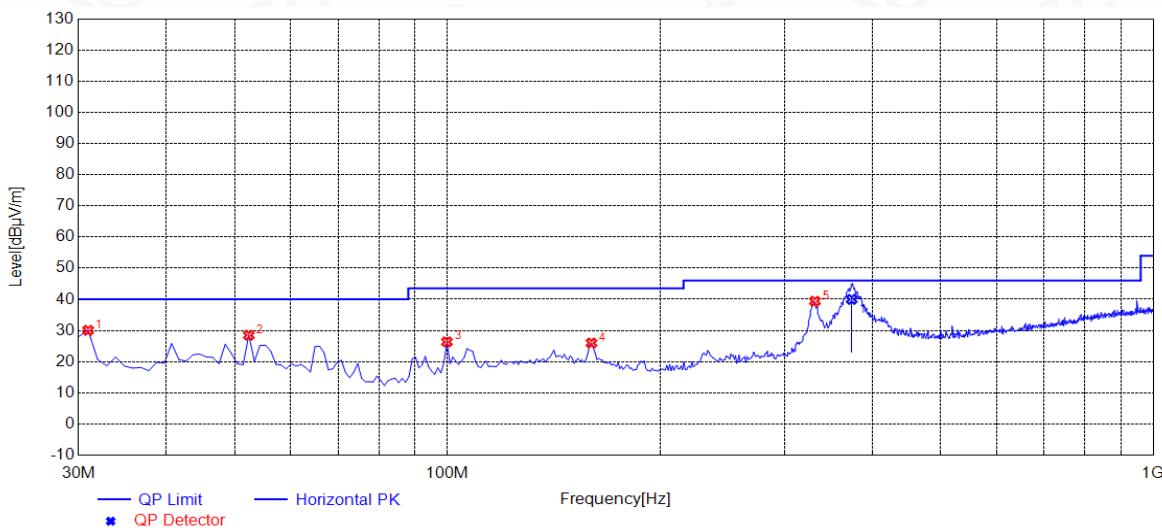
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EUT	IMILAB C30	Model Name	CMSXJ21E
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5745MHz	Antenna	Horizontal


Peak data list

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	30.9700	30.06	10.02	40.00	9.94	100	251	Horizontal
2	52.3100	28.49	11.49	40.00	11.51	200	32	Horizontal
3	99.8400	26.37	11.30	43.50	17.13	200	356	Horizontal
4	159.9800	26.00	14.94	43.50	17.50	200	244	Horizontal
5	331.6700	39.40	17.15	46.00	6.60	100	258	Horizontal

QP data list

NO.	Freq. [MHz]	Factor [dB]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	373.9538	18.76	39.99	46.00	6.01	101.5	237.5	Horizontal

RESULT: PASS

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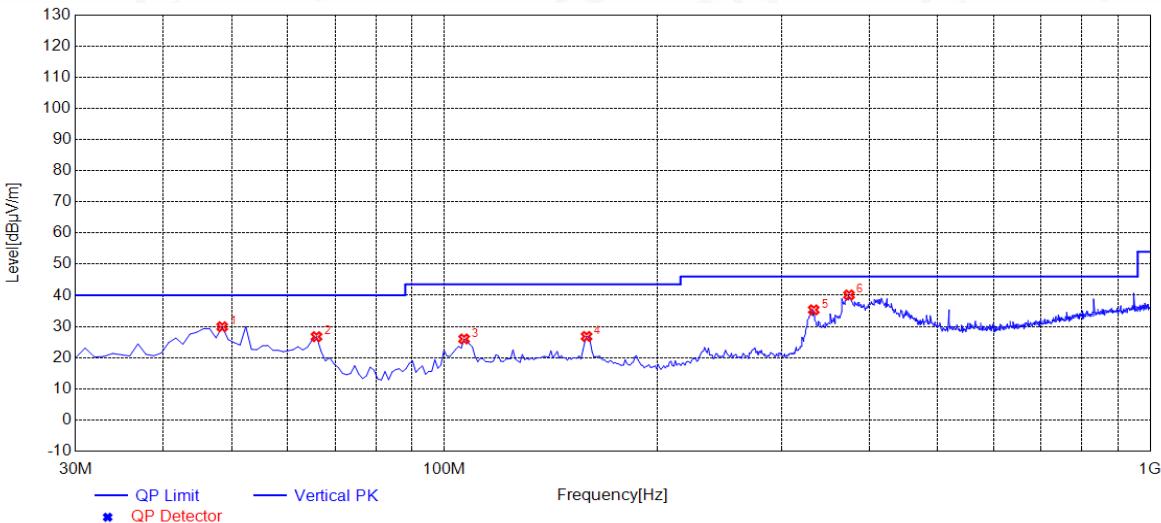
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EUT	IMILAB C30	Model Name	CMSXJ21E
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5745MHz	Antenna	Vertical



NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	48.4300	29.92	11.71	40.00	10.08	100	195	Vertical
2	65.8900	26.73	9.93	40.00	13.27	100	110	Vertical
3	106.6300	26.01	12.07	43.50	17.49	100	18	Vertical
4	159.0100	26.81	14.94	43.50	16.69	100	66	Vertical
5	333.6100	35.36	17.24	46.00	10.64	100	49	Vertical
6	374.3500	40.13	18.78	46.00	5.87	100	1	Vertical

RESULT: PASS

Note: All test channels had been tested. The 802.11a20 at 5180MHz and 5745MHz 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	IMILAB C30	Model Name	CMSXJ21E
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)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
10360.042	46.13	9.14	55.27	68.20	-12.93	peak
15540.063	41.56	10.22	51.78	74.00	-22.22	peak
15540.063	31.48	10.22	41.70	54.00	-12.30	AVG

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)	
10360.042	45.19	9.14	54.33	68.20	-13.87	peak
15540.063	40.84	10.22	51.06	74.00	-22.94	peak
15540.063	30.56	10.22	40.78	54.00	-13.22	AVG

Remark:

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

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EUT	IMILAB C30	Model Name	CMSXJ21E
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 Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
10400.042	47.16	9.14	56.30	68.20	-11.90	peak
15600.063	42.57	10.22	52.79	74.00	-21.21	peak
15600.063	32.68	10.22	42.90	54.00	-11.10	AVG

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)	
10400.042	45.19	9.14	54.33	68.20	-13.87	peak
15600.063	40.74	10.22	50.96	74.00	-23.04	peak
15600.063	30.59	10.22	40.81	54.00	-13.19	AVG

Remark:

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

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EUT	IMILAB C30	Model Name	CMSXJ21E
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)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
10480.042	47.16	9.27	56.43	68.20	-11.77	peak
15720.063	42.57	10.38	52.95	74.00	-21.05	peak
15720.063	31.98	10.38	42.36	54.00	-11.64	AVG

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)	
10480.042	46.12	9.27	55.39	68.20	-12.81	peak
15720.063	40.79	10.38	51.17	74.00	-22.83	peak
15720.063	30.22	10.38	40.60	54.00	-13.40	AVG

Remark:

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

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EUT	AC3000 Tri-Band Mesh Router	Model Name	TT-ND001
Temperature	25°C	Relative Humidity	55.4%
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)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
10520.044	46.19	9.29	55.48	68.20	-12.72	peak
15780.066	41.57	10.42	51.99	74.00	-22.01	peak
15780.066	32.46	10.42	42.88	54.00	-11.12	AVG

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)	
10520.044	47.69	9.29	56.98	68.20	-11.22	peak
15780.066	43.46	10.42	53.88	74.00	-20.12	peak
15780.066	33.71	10.42	44.13	54.00	-9.87	AVG

Remark:

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

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EUT	AC3000 Tri-Band Mesh Router	Model Name	TT-ND001
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5300MHz	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
10600.044	47.26	9.31	56.57	74.00	-17.43	peak
10600.044	38.46	9.31	47.77	54.00	-6.23	Avg
15900.066	42.47	10.45	52.92	74.00	-21.08	peak
15900.066	33.54	10.45	43.99	54.00	-10.01	Avg
Remark:						

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
10600.044	48.16	9.31	57.47	74.00	-16.53	peak
10600.044	39.32	9.31	48.63	54.00	-5.37	Avg
15900.066	42.33	10.45	52.78	74.00	-21.22	peak
15900.066	34.61	10.45	45.06	54.00	-8.94	Avg
Remark:						

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EUT	AC3000 Tri-Band Mesh Router	Model Name	TT-ND001
Temperature	25°C	Relative Humidity	55.4%
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	Value Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
10640.044	46.12	9.35	55.47	74.00	-18.53	peak
10640.044	37.49	9.35	46.84	54.00	-7.16	AVG
15960.066	41.56	10.46	52.02	74.00	-21.98	peak
15960.066	30.87	10.46	41.33	54.00	-12.67	AVG

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)	
10640.044	48.13	9.35	57.48	74.00	-16.52	peak
10640.044	38.27	9.35	47.62	54.00	-6.38	AVG
15960.066	42.55	10.46	53.01	74.00	-20.99	peak
15960.066	31.75	10.46	42.21	54.00	-11.79	AVG

Remark:

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

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EUT	AC3000 Tri-Band Mesh Router	Model Name	TT-ND001
Temperature	25°C	Relative Humidity	55.4%
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)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
11000.044	48.34	9.37	57.71	74.00	-16.29	peak
11000.044	39.15	9.37	48.52	54.00	-5.48	Avg
16500.066	43.48	10.48	53.96	68.20	-14.24	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)	
11000.044	48.26	9.37	57.63	74.00	-16.37	peak
11000.044	40.17	9.37	49.54	54.00	-4.46	Avg
16500.066	42.56	10.48	53.04	68.20	-15.16	peak

Remark:

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EUT	AC3000 Tri-Band Mesh Router	Model Name	TT-ND001
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5600MHz	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
11200.044	48.26	9.38	57.64	74.00	-16.36	peak
11200.044	40.27	9.38	49.65	54.00	-4.35	AVG
16800.066	43.48	10.48	53.96	68.20	-14.24	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
11200.044	47.16	9.38	56.54	74.00	-17.46	peak
11200.044	38.64	9.38	48.02	54.00	-5.98	AVG
16800.066	41.53	10.48	52.01	68.20	-16.19	peak

Remark:

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

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EUT	AC3000 Tri-Band Mesh Router	Model Name	TT-ND001
Temperature	25°C	Relative Humidity	55.4%
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)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
11400.044	47.16	9.39	56.55	74.00	-17.45	peak
11400.044	38.49	9.39	47.88	54.00	-6.12	AVG
17100.066	39.54	10.49	50.03	68.20	-18.17	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)	
11400.044	48.67	9.39	58.06	74.00	-15.94	peak
11400.044	39.52	9.39	48.91	54.00	-5.09	AVG
17100.066	43.71	10.49	54.20	68.20	-14.00	peak

Remark:

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

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EUT	IMILAB C30	Model Name	CMSXJ21E
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

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
11490.042	46.29	9.42	55.71	74.00	-18.29	peak
11490.042	38.47	9.42	47.89	54.00	-6.11	AVG
17235.063	40.25	10.51	50.76	68.20	-17.44	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)	
11490.042	46.89	9.42	56.31	74.00	-17.69	peak
11490.042	37.12	9.42	46.54	54.00	-7.46	AVG
17235.063	41.07	10.51	51.58	68.20	-16.62	peak

Remark:

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

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EUT	IMILAB C30	Model Name	CMSXJ21E
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	Value Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
11570.042	47.94	9.42	57.36	74.00	-16.64	peak
11570.042	37.26	9.42	46.68	54.00	-7.32	AVG
17355.063	42.38	10.51	52.89	68.20	-15.31	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	47.12	9.42	56.54	74.00	-17.46	peak
11570.042	36.48	9.42	45.90	54.00	-8.10	AVG
17355.063	41.05	10.51	51.56	68.20	-16.64	peak

Remark:

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

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EUT	IMILAB C30	Model Name	CMSXJ21E
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 (MHz)	Meter Reading (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Value Type
11650.042	46.16	9.62	55.78	74.00	-18.22	peak
11650.042	38.54	9.62	48.16	54.00	-5.84	AVG
17475.063	40.17	10.75	50.92	68.20	-17.28	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
11650.042	46.94	9.62	56.56	74.00	-17.44	peak
11650.042	37.15	9.62	46.77	54.00	-7.23	AVG
17475.063	40.24	10.75	50.99	68.20	-17.21	peak

Remark:

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

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= Level- Limit.

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

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13. BAND EDGE EMISSION

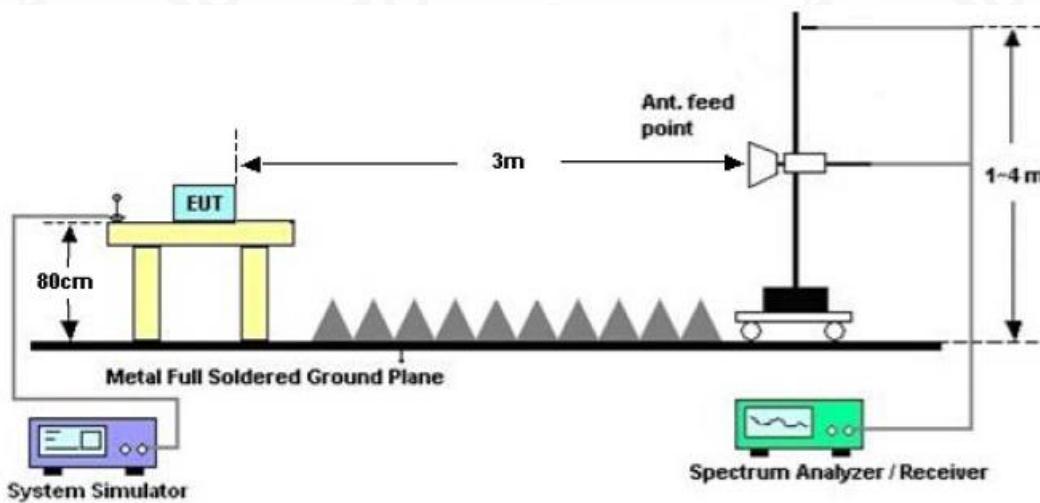
13.1. MEASUREMENT PROCEDURE

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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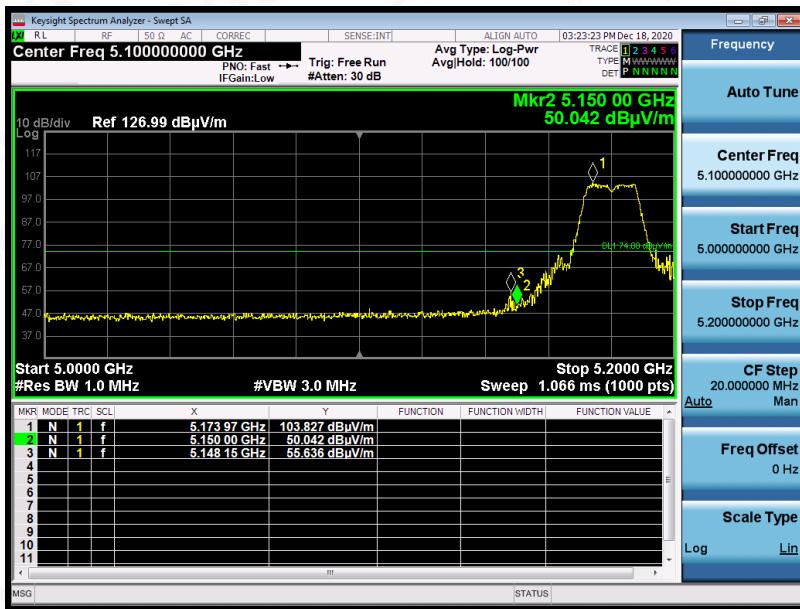
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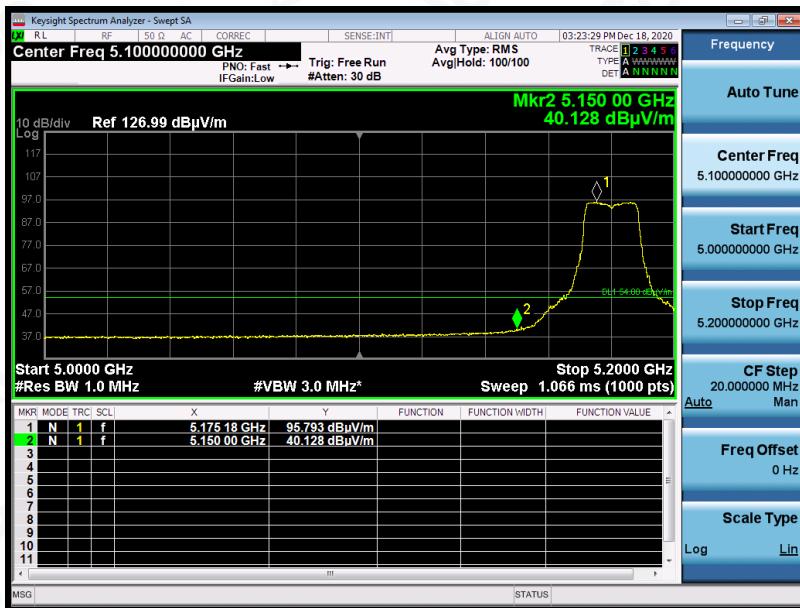
13.3. TEST RESULT

EUT	IMILAB C30	Model Name	CMSXJ21E
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5180MHz	Antenna	Horizontal

PK Value



AV Value



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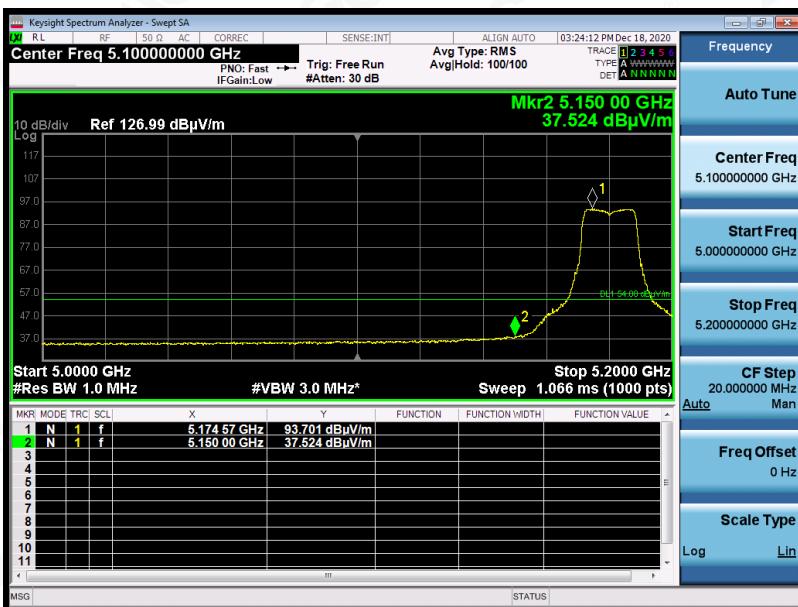


EUT	IMILAB C30	Model Name	CMSXJ21E
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5180MHz	Antenna	Vertical

PK Value



AV Value



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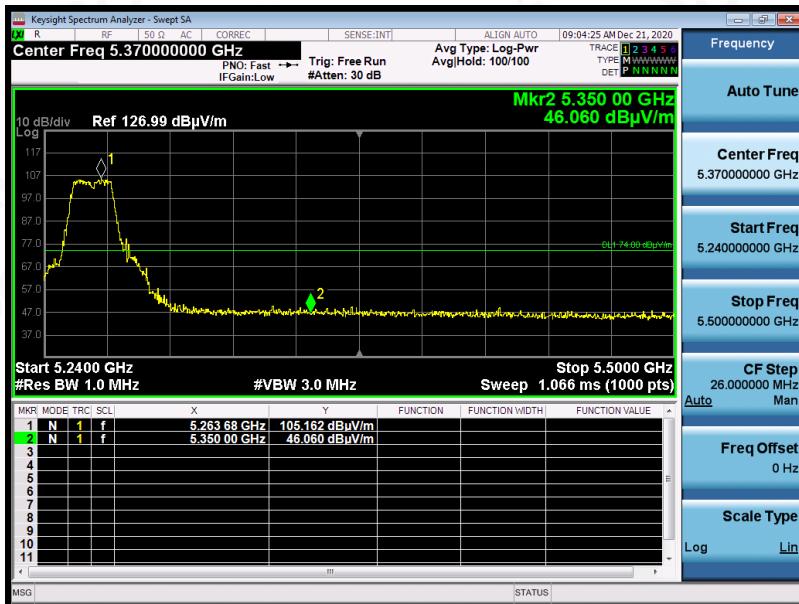
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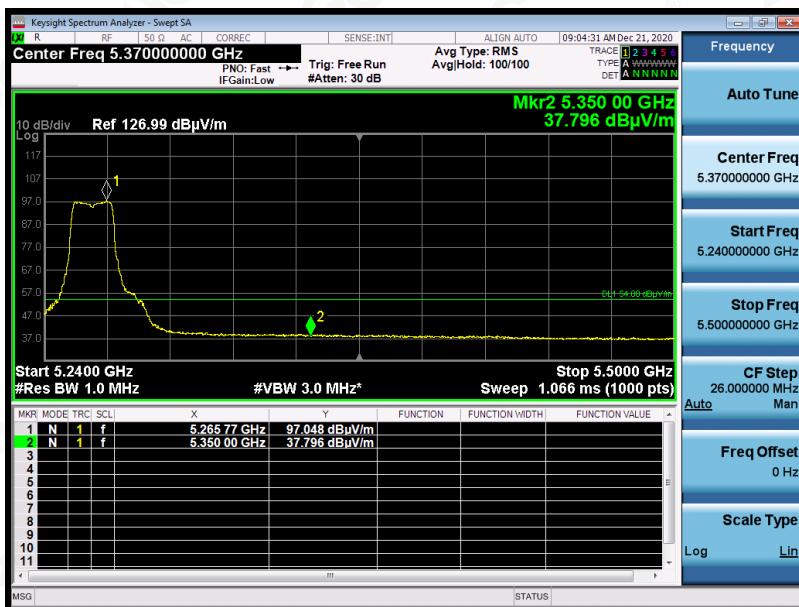


EUT	IMILAB C30	Model Name	CMSXJ21E
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5260MHz	Antenna	Horizontal

PK Value



AV Value



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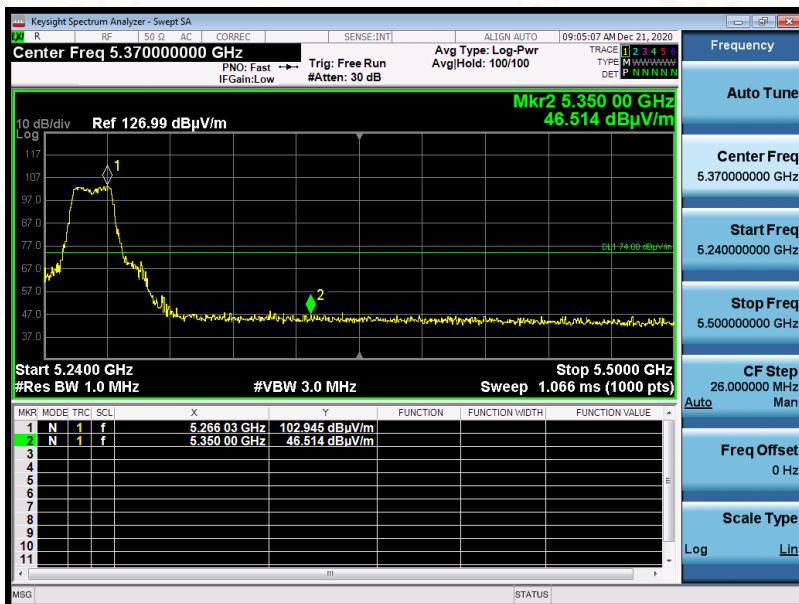
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EUT	IMILAB C30	Model Name	CMSXJ21E
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5260MHz	Antenna	Vertical

PK Value



AV Value



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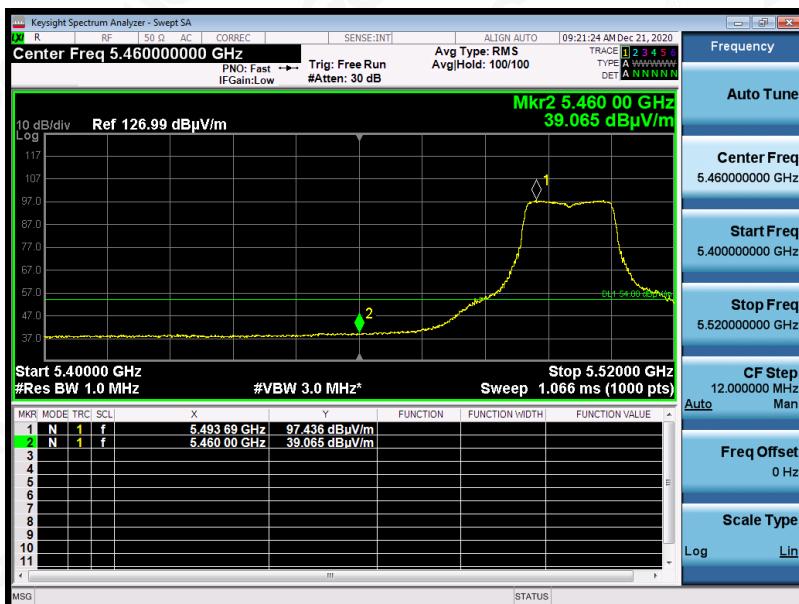


EUT	IMILAB C30	Model Name	CMSXJ21E
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5500MHz	Antenna	Horizontal

PK Value



AV Value



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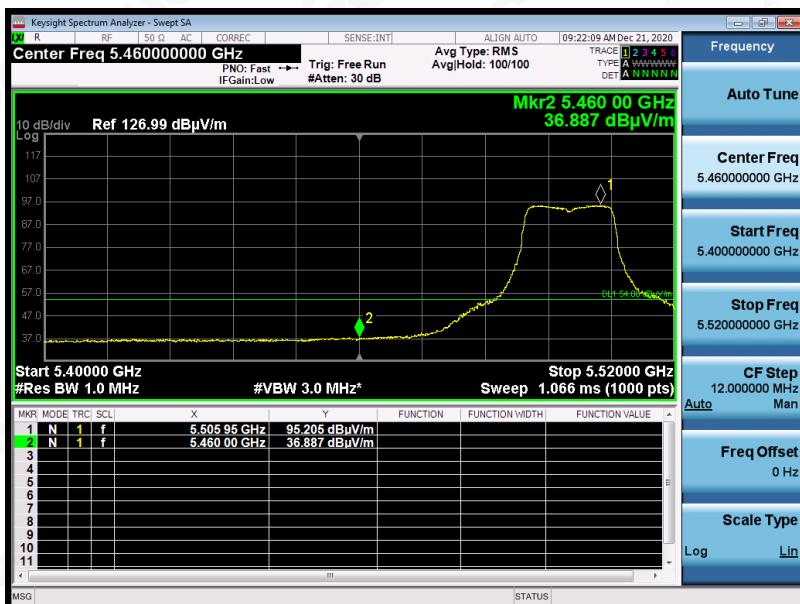


EUT	IMILAB C30	Model Name	CMSXJ21E
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5500MHz	Antenna	Vertical

PK Value



AV Value



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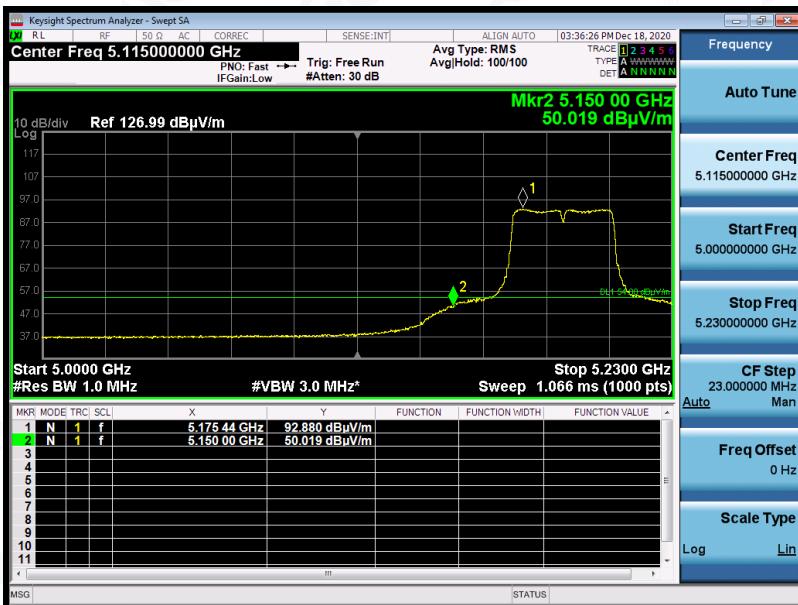


EUT	IMILAB C30	Model Name	CMSXJ21E
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n40 5190MHz	Antenna	Horizontal

PK Value



AV Value



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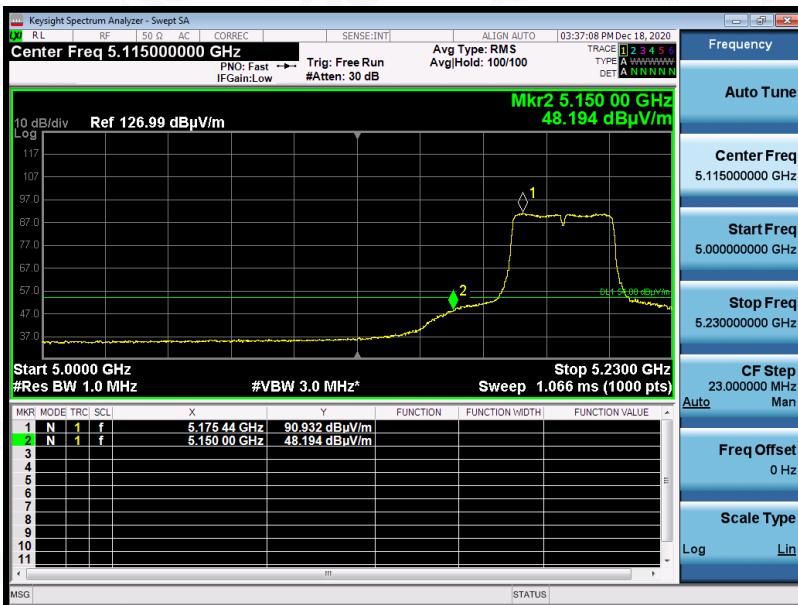


EUT	IMILAB C30	Model Name	CMSXJ21E
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n40 5190MHz	Antenna	Vertical

PK Value



AV Value



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EUT	IMILAB C30	Model Name	CMSXJ21E
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n40 5270MHz	Antenna	Horizontal

PK Value



AV Value



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EUT	IMILAB C30	Model Name	CMSXJ21E
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n40 5270MHz	Antenna	Vertical

PK Value



AV Value



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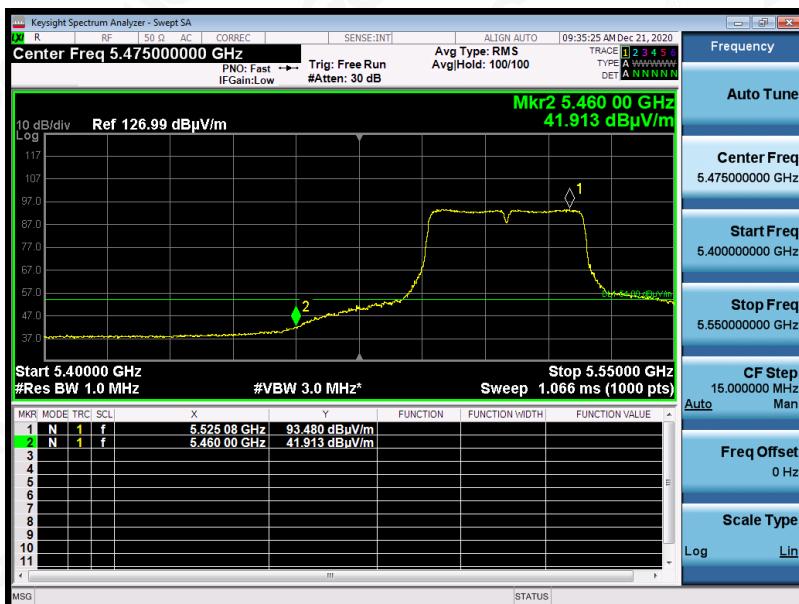


EUT	IMILAB C30	Model Name	CMSXJ21E
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n40 5510MHz	Antenna	Horizontal

PK Value



AV Value



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