

TEST PLOT OF OUT OF BAND EMISSIONS WITH THE WORST CASE
OF 802.11g FOR MODULATION IN LOW CHANNEL

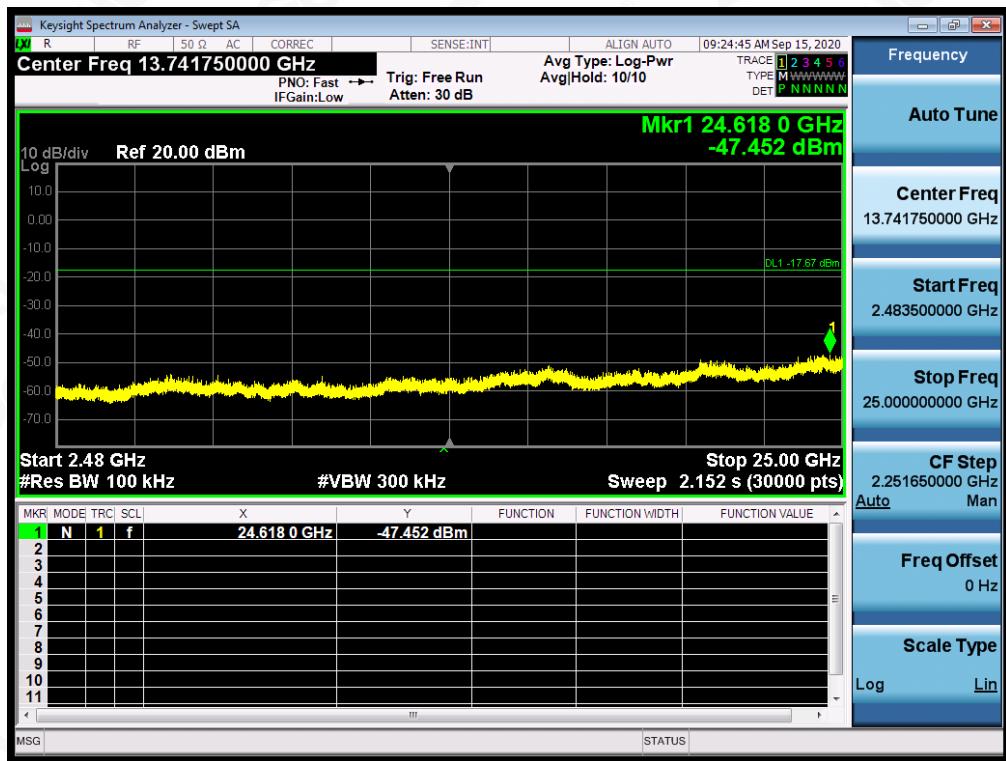

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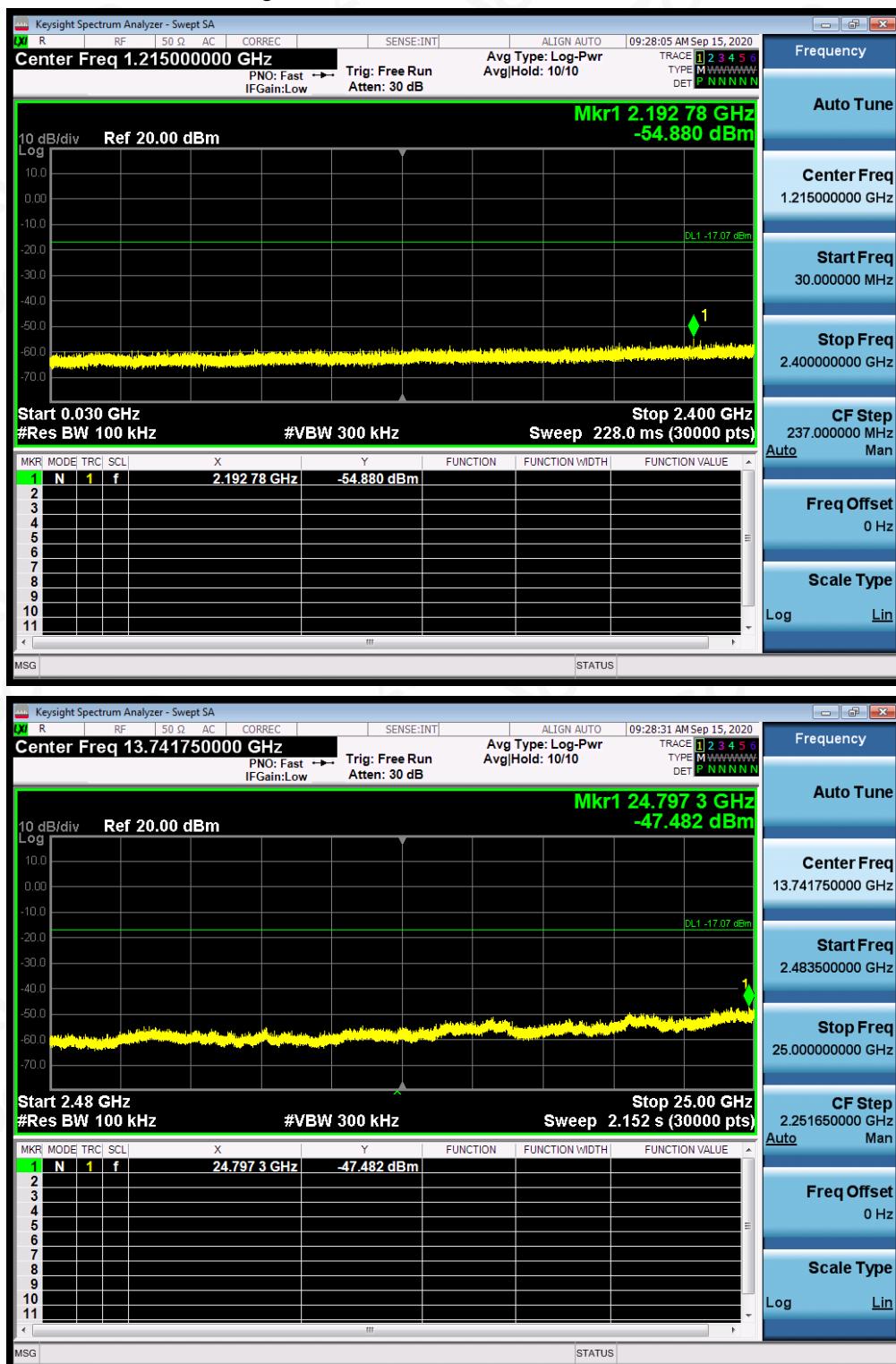
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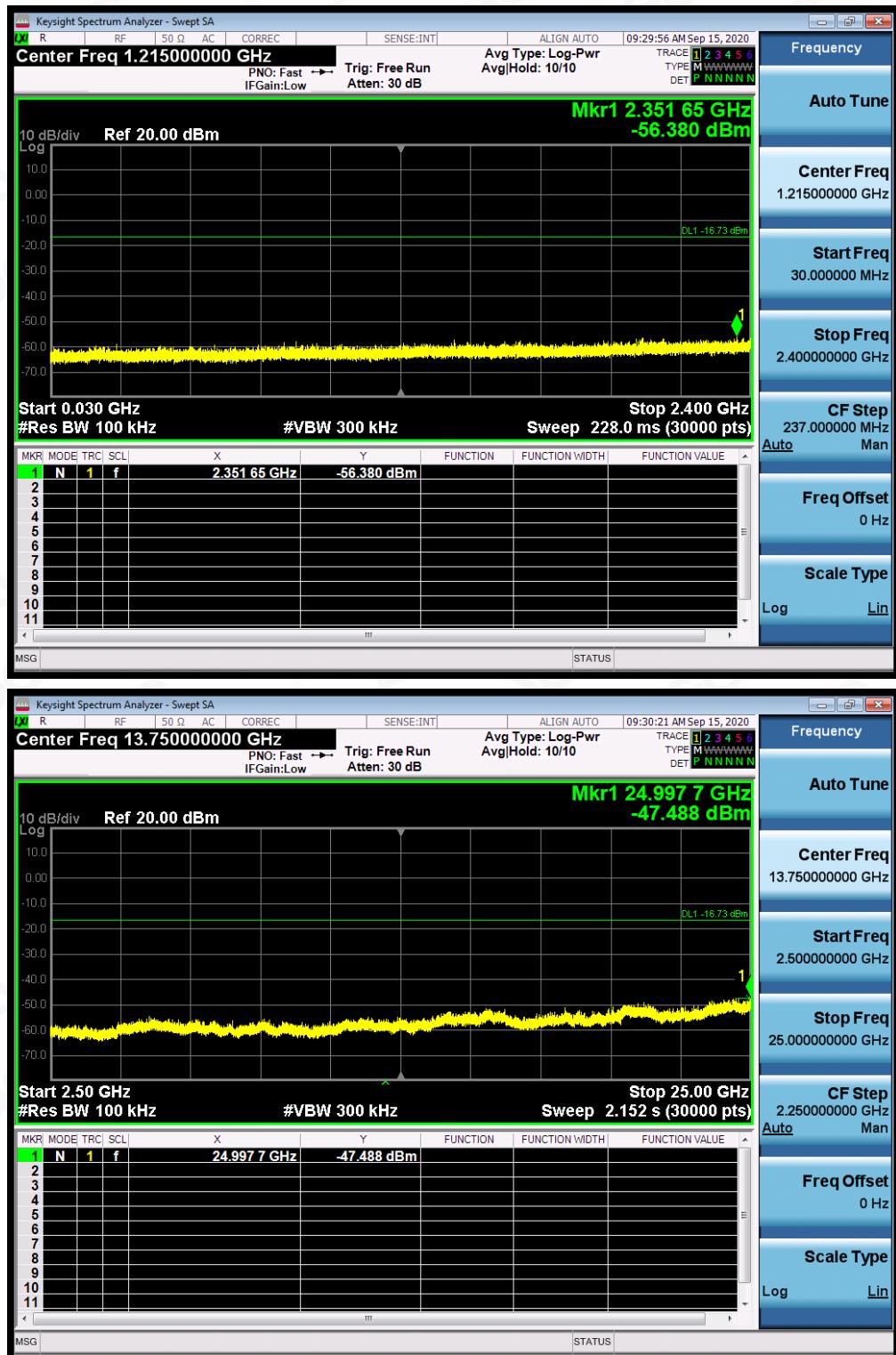
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TEST PLOT OF OUT OF BAND EMISSIONS THE WORST CASE
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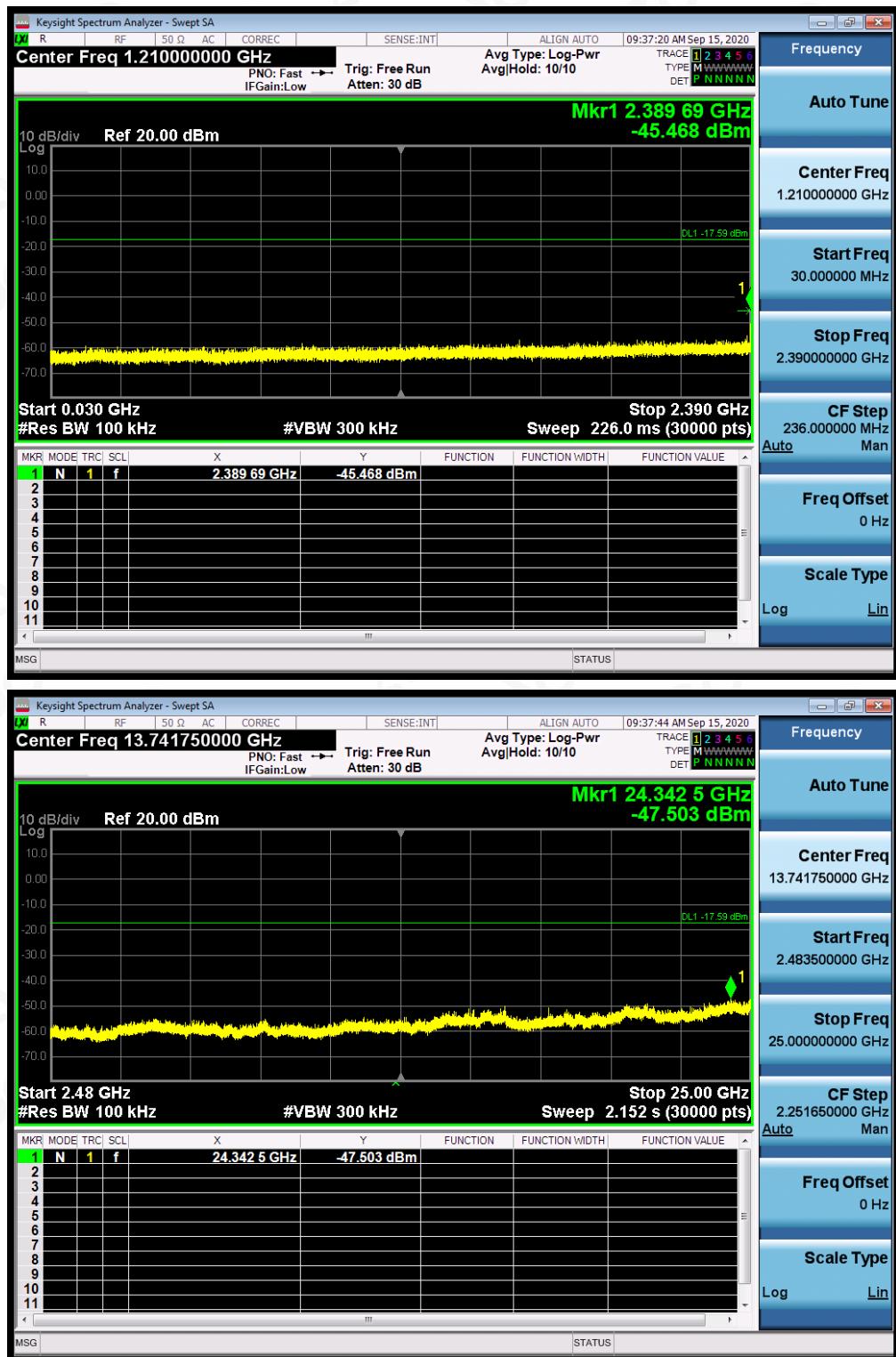
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TEST PLOT OF OUT OF BAND EMISSIONS WITH THE WORST CASE
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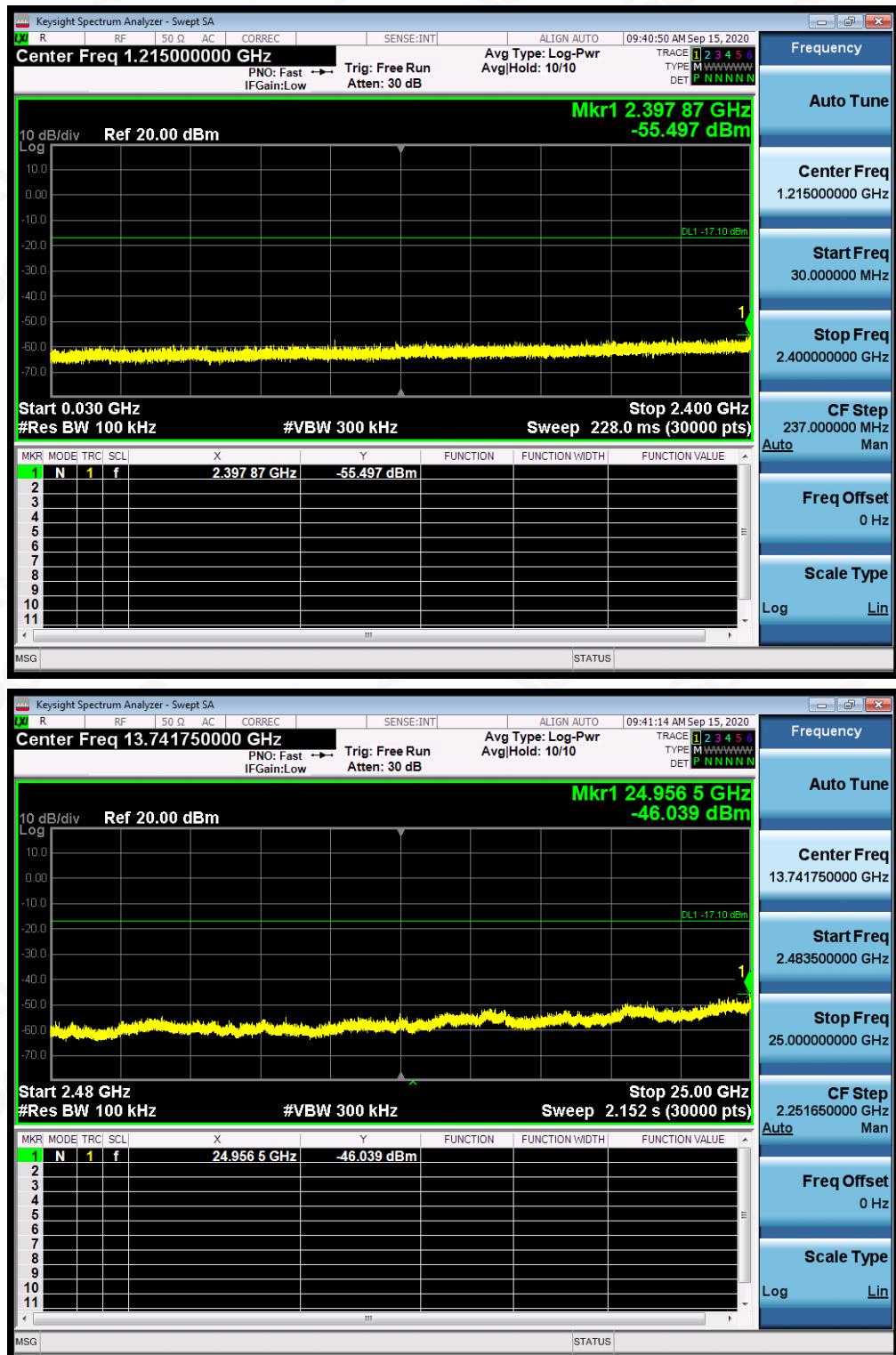
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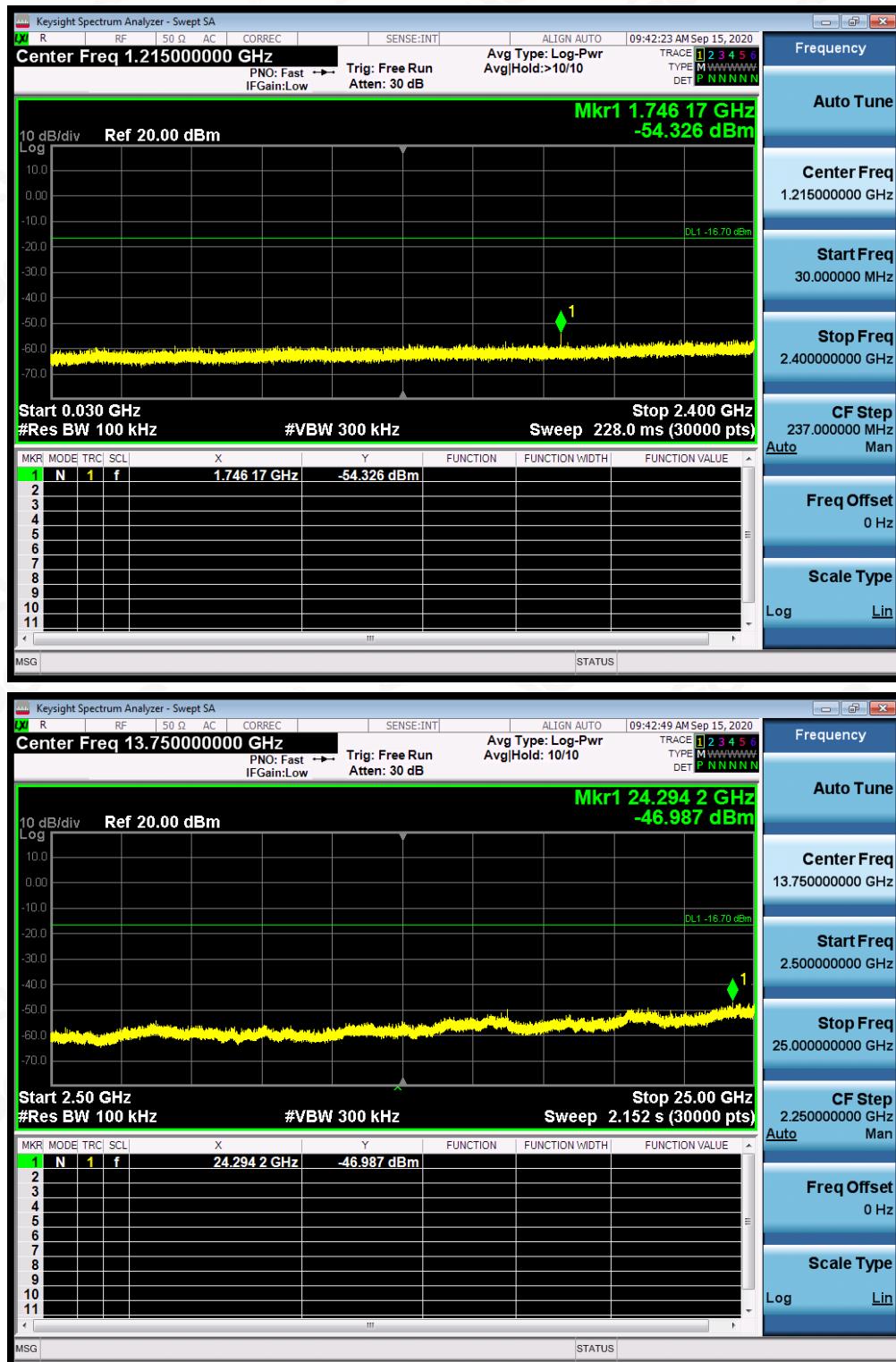
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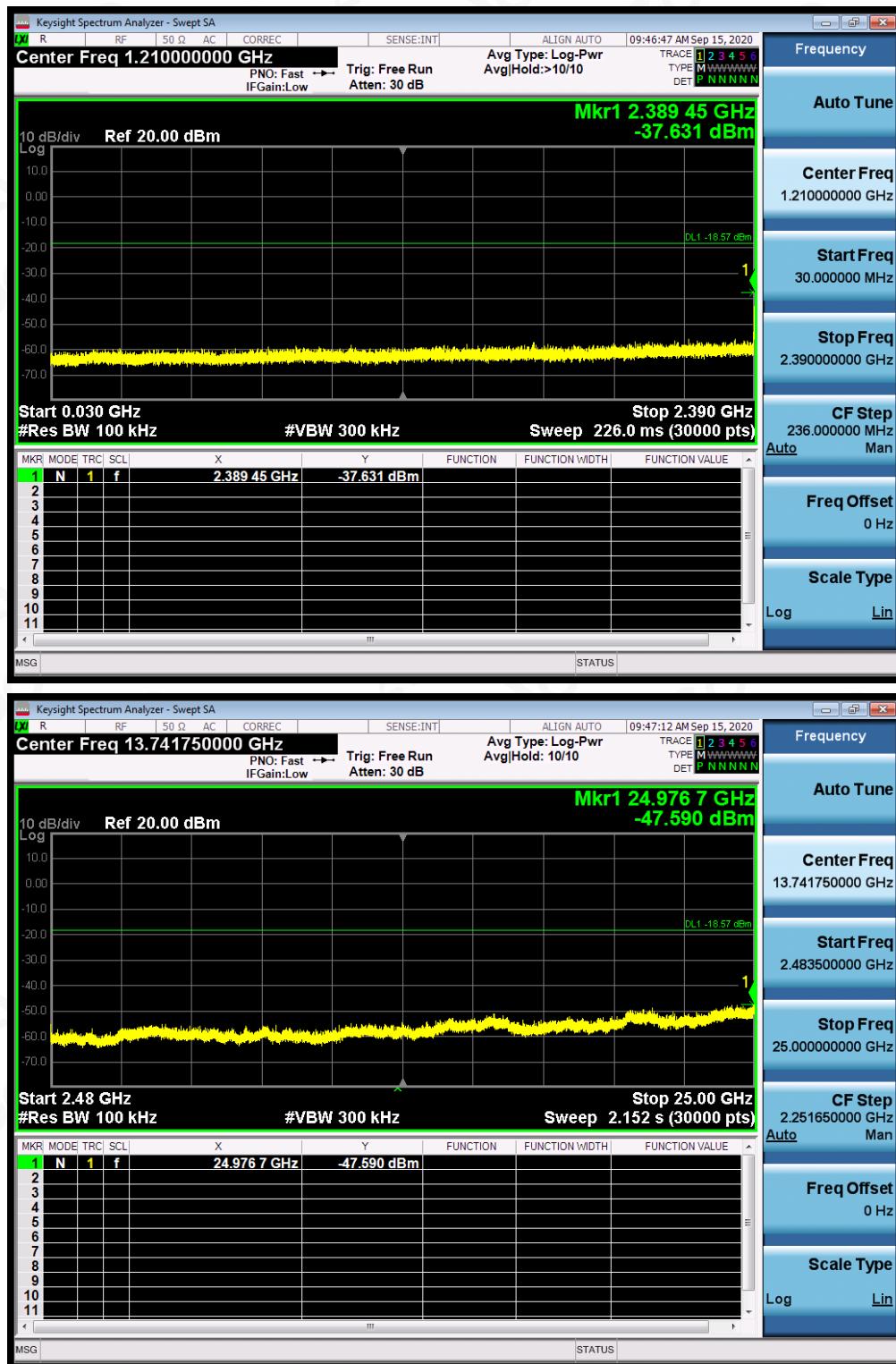
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TEST PLOT OF OUT OF BAND EMISSIONS WITH THE WORST CASE
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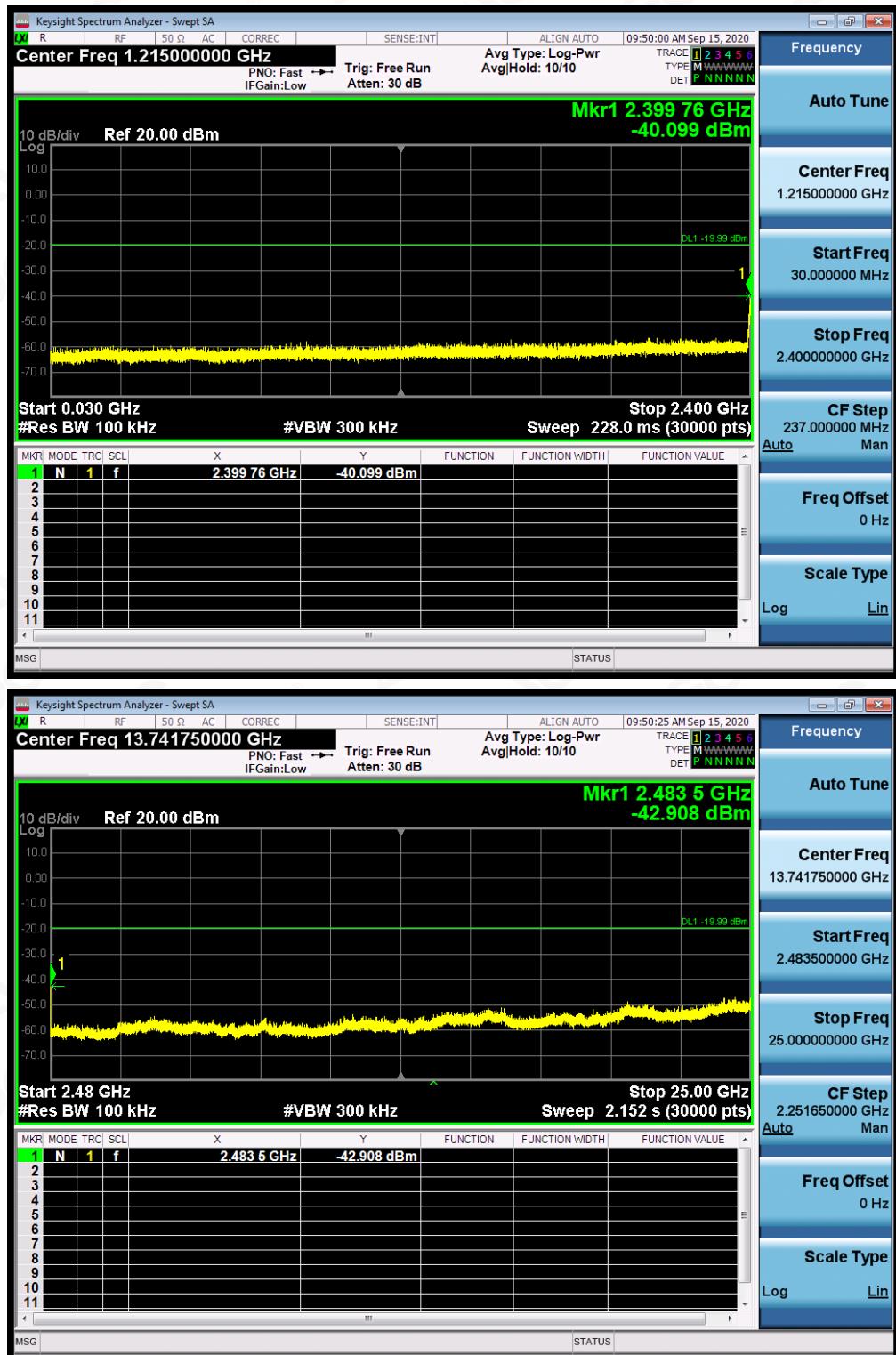
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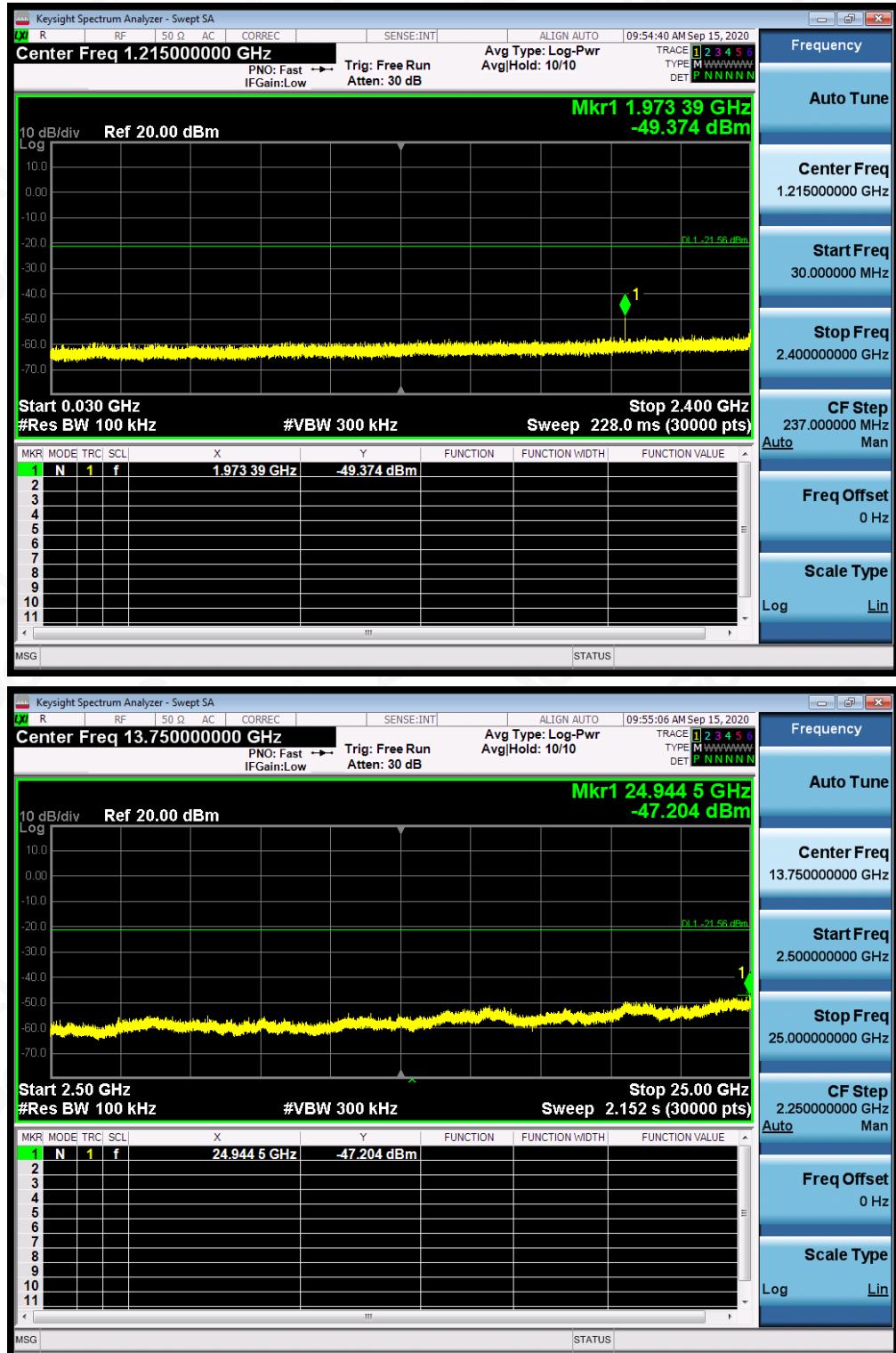
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10. MAXIMUM CONDUCTED OUTPUT POWER SPECTRAL DENSITY

10.1 MEASUREMENT PROCEDURE

- (1). Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- (2). Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- (3). Set SPA Trace 1 Max hold, then View.

Note: The method of AVGPSD-1 in the ANSI C63.10 (2013) item 11.10 was used in this testing.

10.2 TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

Refer To Section 8.2.

10.3 MEASUREMENT EQUIPMENT USED

Refer To Section 6.

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10.4 LIMITS AND MEASUREMENT RESULT

Mode	Channel	PSD [dBm/20kHz]	Limit[dBm/3kHz]	Verdict
11b	LCH	1.821	8	PASS
	MCH	2.499	8	PASS
	HCH	2.338	8	PASS
11g	LCH	-3.626	8	PASS
	MCH	-2.792	8	PASS
	HCH	-2.923	8	PASS
11nHT20	LCH	-3.272	8	PASS
	MCH	-3.565	8	PASS
	HCH	-2.923	8	PASS
11NHT40	LCH	-4.575	8	PASS
	MCH	-5.967	8	PASS
	HCH	-10.578	8	PASS

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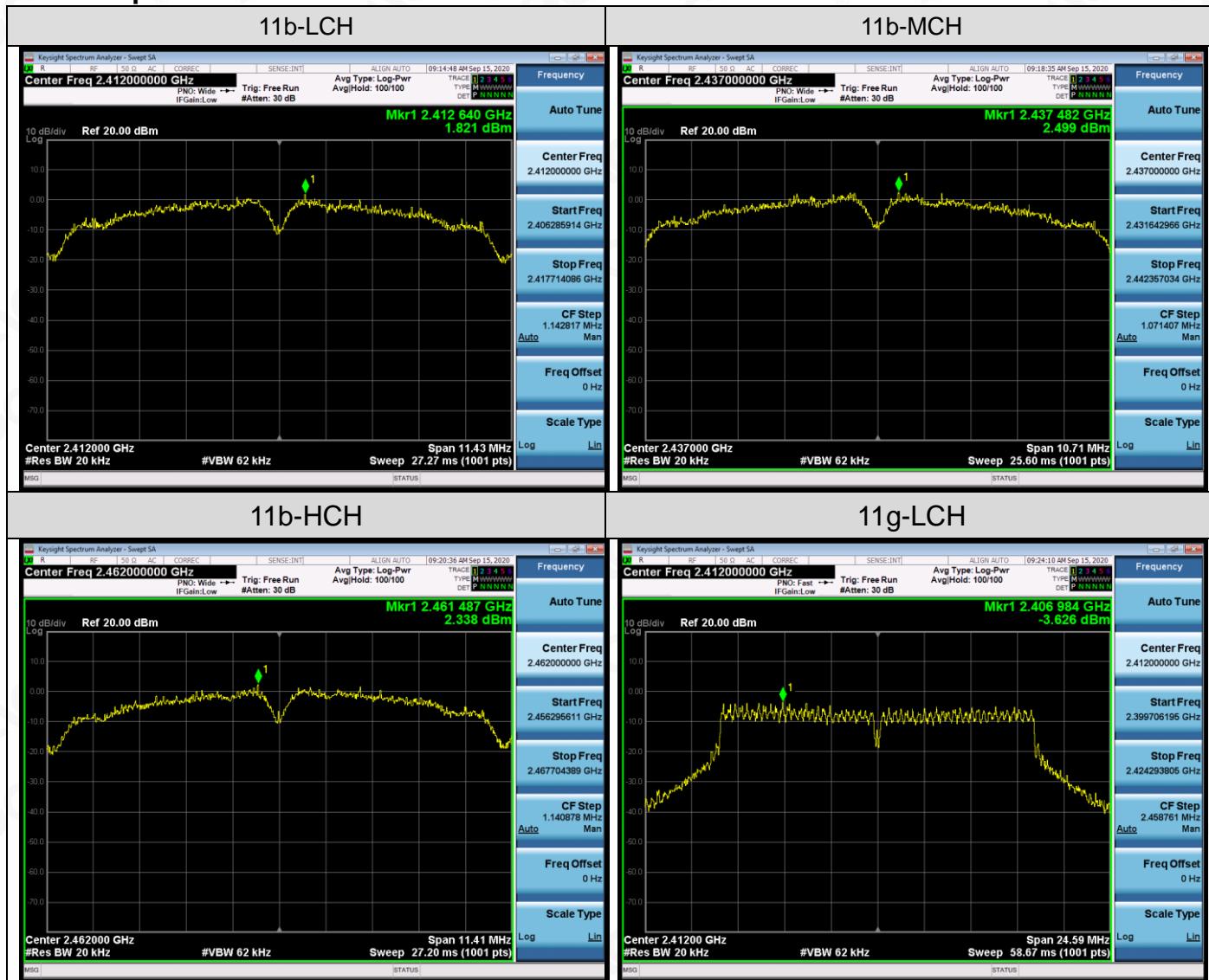
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Test Graph



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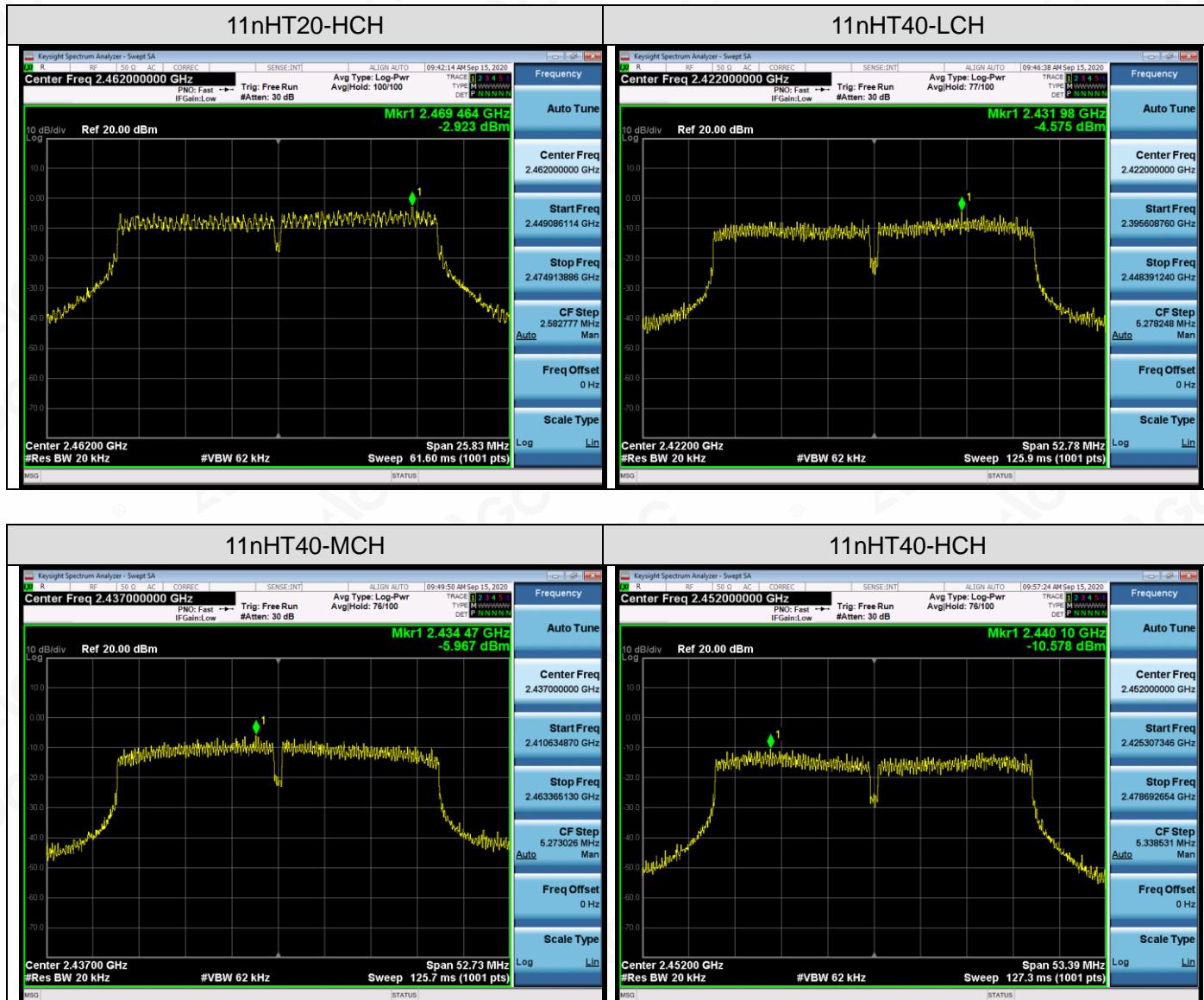
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11. RADIATED EMISSION

11.1. MEASUREMENT PROCEDURE

1. The EUT was placed on the top of the turntable 0.8 or 1.5 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
4. For each suspected 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 VBW and RBW for peak reading. Then 1MHz RBW and 10Hz VBW for average reading in spectrum analyzer. 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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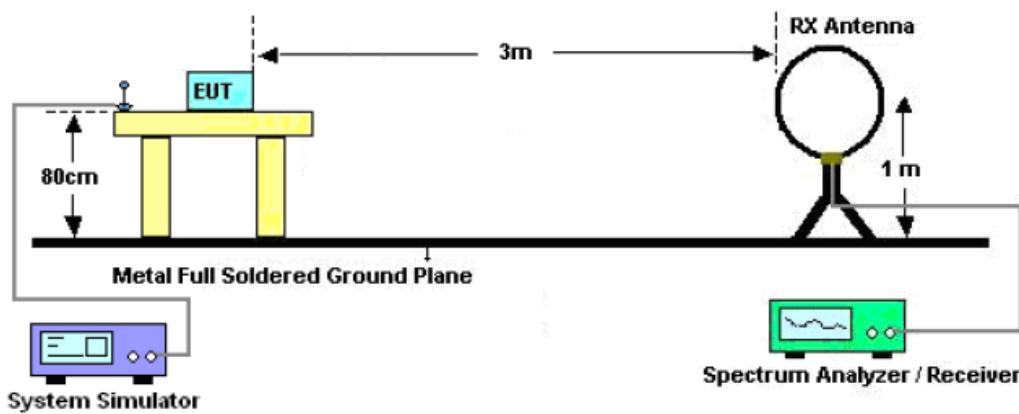
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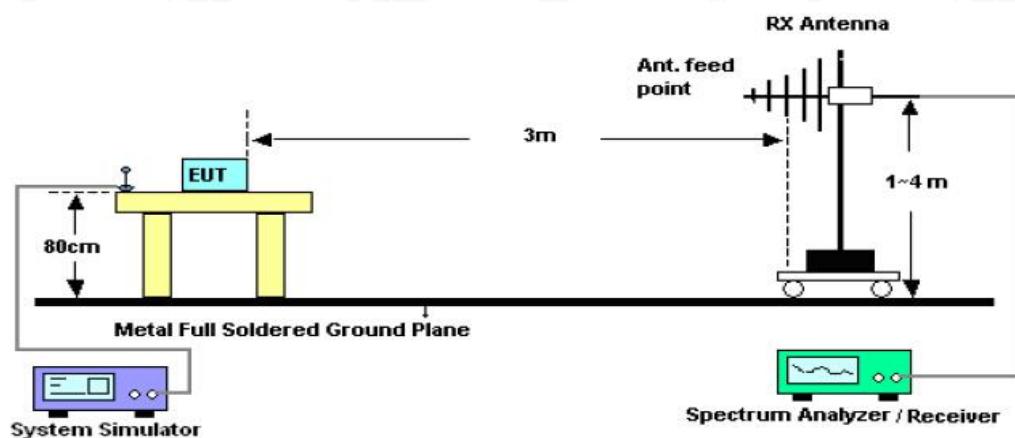


11.2. TEST SETUP

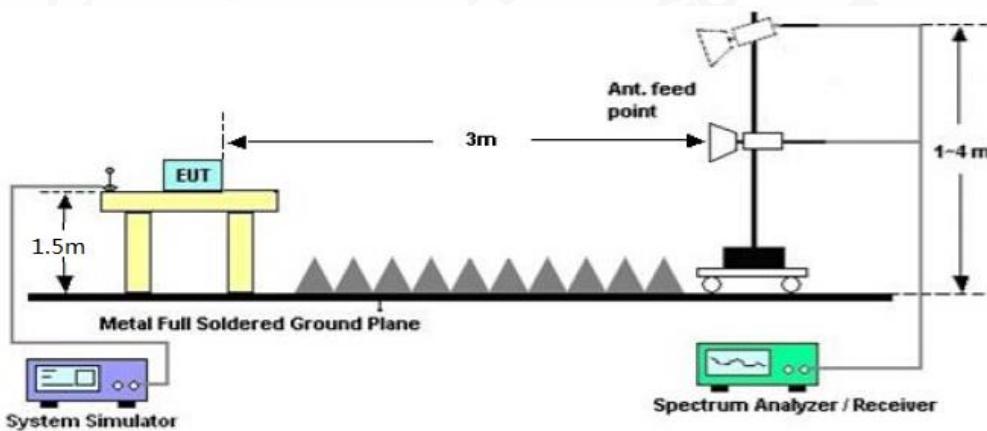
Radiated Emission Test-Setup Frequency Below 30MHz



RADIATED EMISSION TEST SETUP 30MHz-1000MHz



RADIATED EMISSION TEST SETUP ABOVE 1000MHz



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11.3. LIMITS AND MEASUREMENT RESULT

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

Frequencies (MHz)	Field Strength (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.

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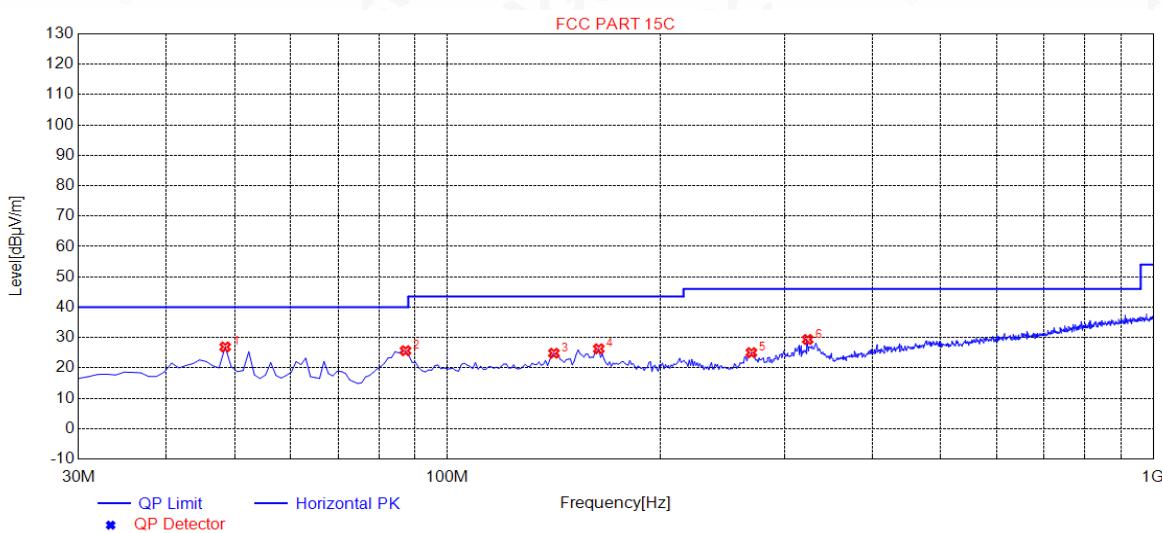
11.4. TEST RESULT

RADIATED EMISSION BELOW 30MHZ

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

RADIATED EMISSION BELOW 1GHZ

RADIATED EMISSION TEST- (30MHZ-1GHZ) -HORIZONTAL



NO.	Freq. [MHz]	Level [dB μ V/m]	Factor [dB]	Limit [dB μ V/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	48.4300	26.91	11.71	40.00	13.09	200	123	Horizontal
2	87.2300	25.66	7.23	40.00	14.34	200	211	Horizontal
3	141.5500	24.84	14.88	43.50	18.66	200	39	Horizontal
4	163.8600	26.29	14.55	43.50	17.21	200	237	Horizontal
5	269.5900	25.04	15.38	46.00	20.96	100	263	Horizontal
6	323.9100	29.36	16.84	46.00	16.64	100	327	Horizontal

RESULT: PASS

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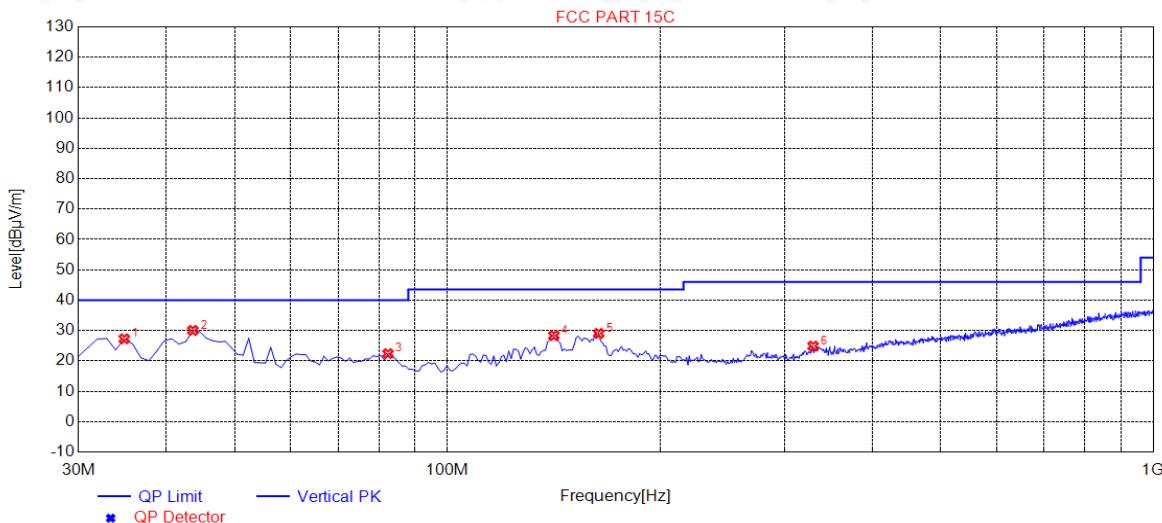
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RADIATED EMISSION TEST- (30MHZ-1GHZ) –VERTICAL



NO.	Freq. [MHz]	Level [dB μ V/m]	Factor [dB]	Limit [dB μ V/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	34.8500	27.28	10.70	40.00	12.72	100	185	Vertical
2	43.5800	30.04	11.84	40.00	9.96	100	273	Vertical
3	82.3800	22.41	7.17	40.00	17.59	100	130	Vertical
4	141.5500	28.35	14.88	43.50	15.15	100	117	Vertical
5	163.8600	29.04	14.55	43.50	14.46	100	133	Vertical
6	329.7300	24.90	17.06	46.00	21.10	100	22	Vertical

RESULT: PASS

Note: 1. Factor=Antenna Factor + Cable loss, Margin=Limit-Result.
2. The “Factor” value can be calculated automatically by software of measurement system.
3. All test modes had been pre-tested. The 802.11b at low channel is the worst case and recorded in the report.

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RADIATED EMISSION ABOVE 1GHZ

EUT	Android POS	Model Name	APOLO
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with date rate 1 2412MHZ	Antenna	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)	
4824.000	51.43	0.08	51.51	74	-22.49	peak
4824.000	39.38	0.08	39.46	54	-14.54	AVG
7236.000	49.33	2.21	51.54	74	-22.46	peak
7236.000	38.57	2.21	40.78	54	-13.22	AVG

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

EUT	Android POS	Model Name	APOLO
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with date rate 1 2412MHZ	Antenna	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)	
4824.000	50.53	0.08	50.61	74	-23.39	peak
4824.000	38.78	0.08	38.86	54	-15.14	AVG
7236.000	49.37	2.21	51.58	74	-22.42	peak
7236.000	37.58	2.21	39.79	54	-14.21	AVG

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

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EUT	Android POS	Model Name	APOLLO
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with date rate 1 2437MHZ	Antenna	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)	
4874.000	50.56	0.14	50.7	74	-23.3	peak
4874.000	41.35	0.14	41.49	54	-12.51	AVG
7311.000	49.34	2.36	51.7	74	-22.3	peak
7311.000	38.82	2.36	41.18	54	-12.82	AVG

Remark:

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

EUT	Android POS	Model Name	APOLLO
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with date rate 1 2437MHZ	Antenna	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)	
4874.000	50.58	0.14	50.72	74	-23.28	peak
4874.000	40.77	0.14	40.91	54	-13.09	AVG
7311.000	48.61	2.36	50.97	74	-23.03	peak
7311.000	40.25	2.36	42.61	54	-11.39	AVG

Remark:

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

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EUT	Android POS	Model Name	APOLO
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with date rate 1 2462MHZ	Antenna	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)	
4924.000	51.39	0.22	51.61	74	-22.39	peak
4924.000	39.51	0.22	39.73	54	-14.27	AVG
7386.000	51.33	2.64	53.97	74	-20.03	peak
7386.000	38.72	2.64	41.36	54	-12.64	AVG

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

EUT	Android POS	Model Name	APOLO
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with date rate 1 2462MHZ	Antenna	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)	
4924.000	51.73	0.22	51.95	74	-22.05	peak
4924.000	40.58	0.22	40.8	54	-13.2	AVG
7386.000	49.37	2.64	52.01	74	-21.99	peak
7386.000	38.37	2.64	41.01	54	-12.99	AVG

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

RESULT: PASS

Note:

The amplitude of other spurious emissions from 1G to 25 GHz which are attenuated more than 20 dB below the permissible value need not be reported.

Factor = Antenna Factor + Cable loss - Amplifier gain, Over=Measure-Limit.

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

All test modes had been pre-tested. The 802.11b mode is the worst case and recorded in the report.

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12. BAND EDGE EMISSION

12.1. MEASUREMENT PROCEDURE

1) Radiated restricted band edge measurements

The radiated restricted band edge measurements are measured with an EMI test receiver connected to the receive antenna while the EUT is transmitting

2) Conducted Emissions at the band edge

- a) The transmitter output was connected to the spectrum analyzer
- b) Set RBW=1MHz, VBW=3MHz
- c) Suitable frequency span including 100kHz bandwidth from band edge

12.2. TEST SET-UP

- Radiated same as 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.

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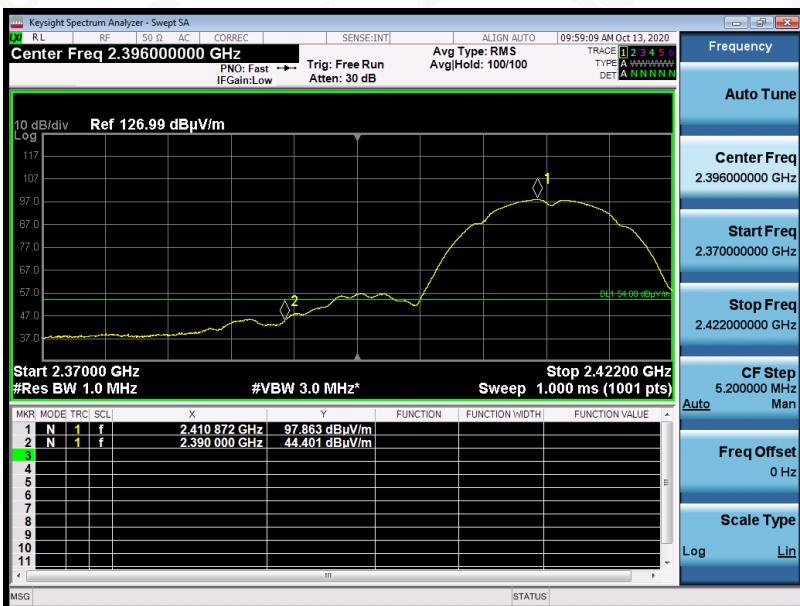
12.3. TEST RESULT

EUT	Android POS	Model Name	APOLO
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with data rate 1 2412MHZ	Antenna	Horizontal

PK



AV



RESULT: PASS

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