

Test_Graph_802.11ac40_ANT1_5230_MCS9_PSD

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Test Graphs of Conducted Output Power Spectral Density for band 5.725-5.85 GHz



Test_Graph_802.11a_ANT1_5745_6Mbps_PSD



Test_Graph_802.11a_ANT1_5785_6Mbps_PSD

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Test_Graph_802.11a_ANT1_5825_6Mbps_PSD



Test_Graph_802.11n20_ANT1_5745_MCS0_PSD

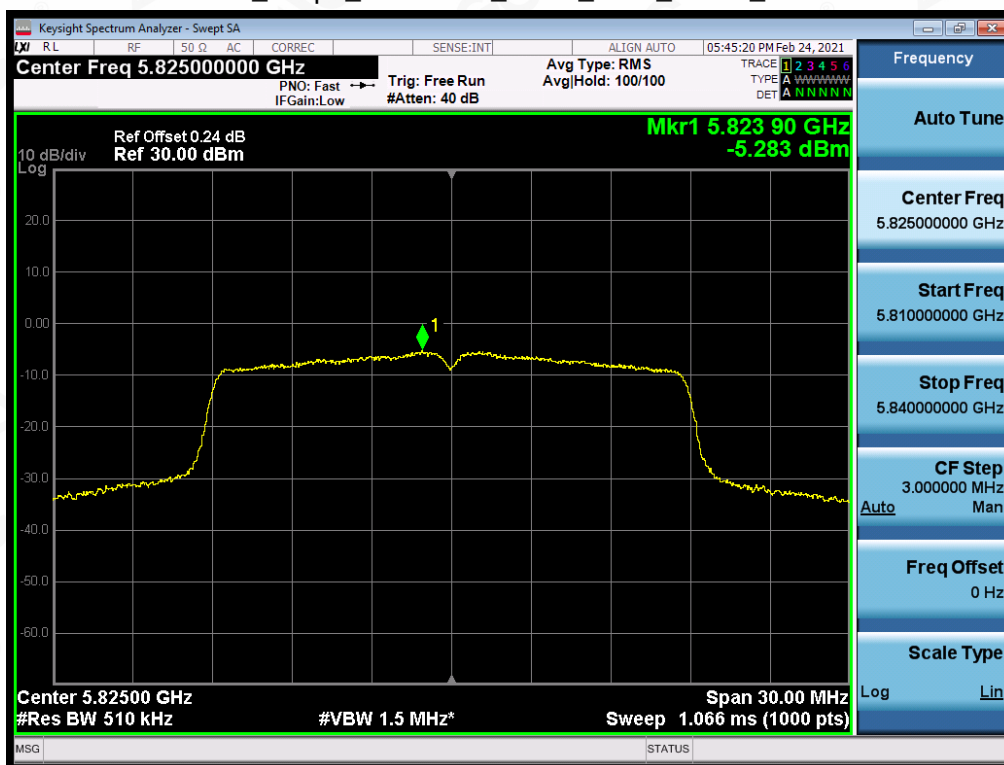
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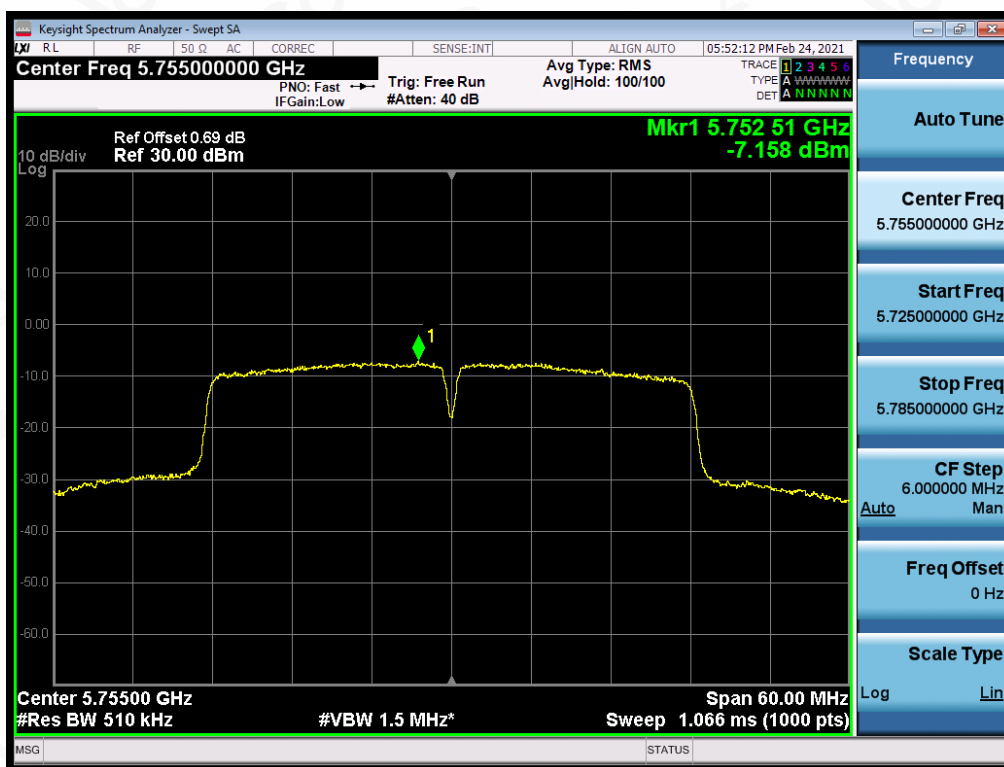


Test_Graph_802.11n20_ANT1_5825_MCS0_PSD

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Test_Graph_802.11n40_ANT1_5755_MCS0_PSD

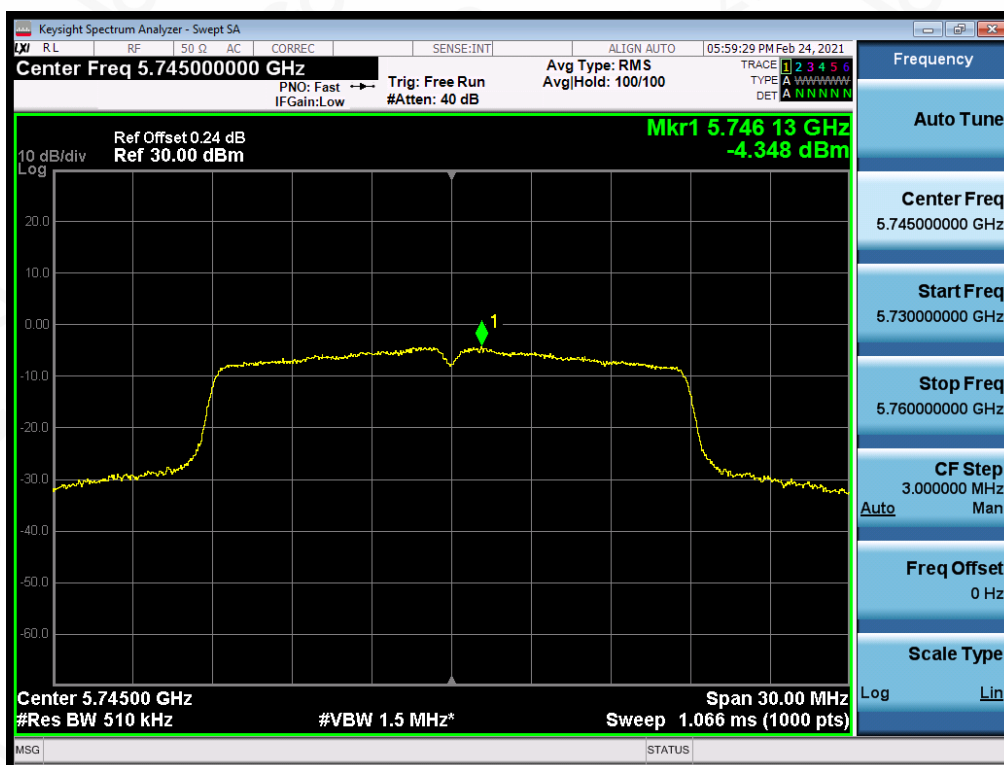


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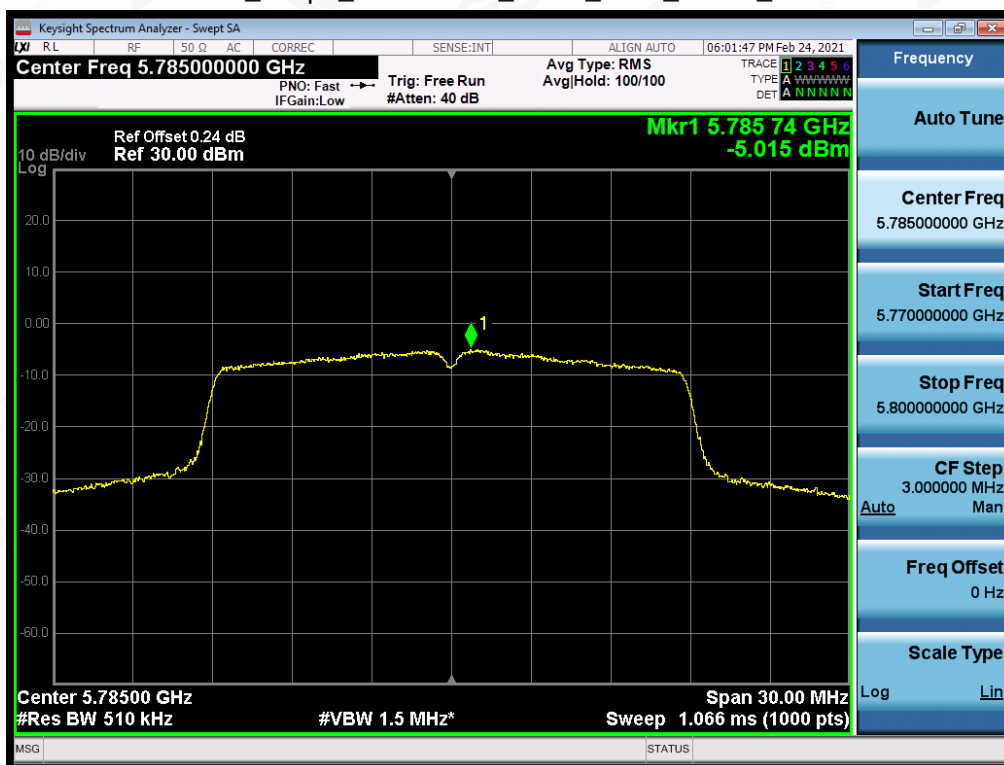
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Test_Graph_802.11ac20_ANT1_5745_MCS0_PSD

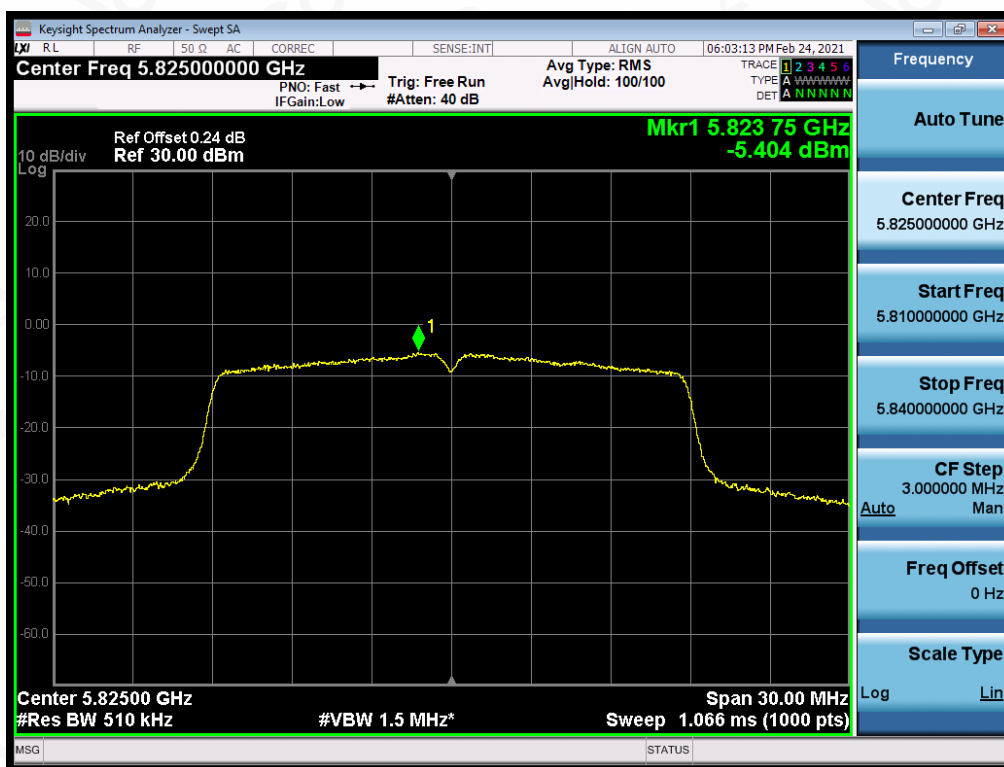


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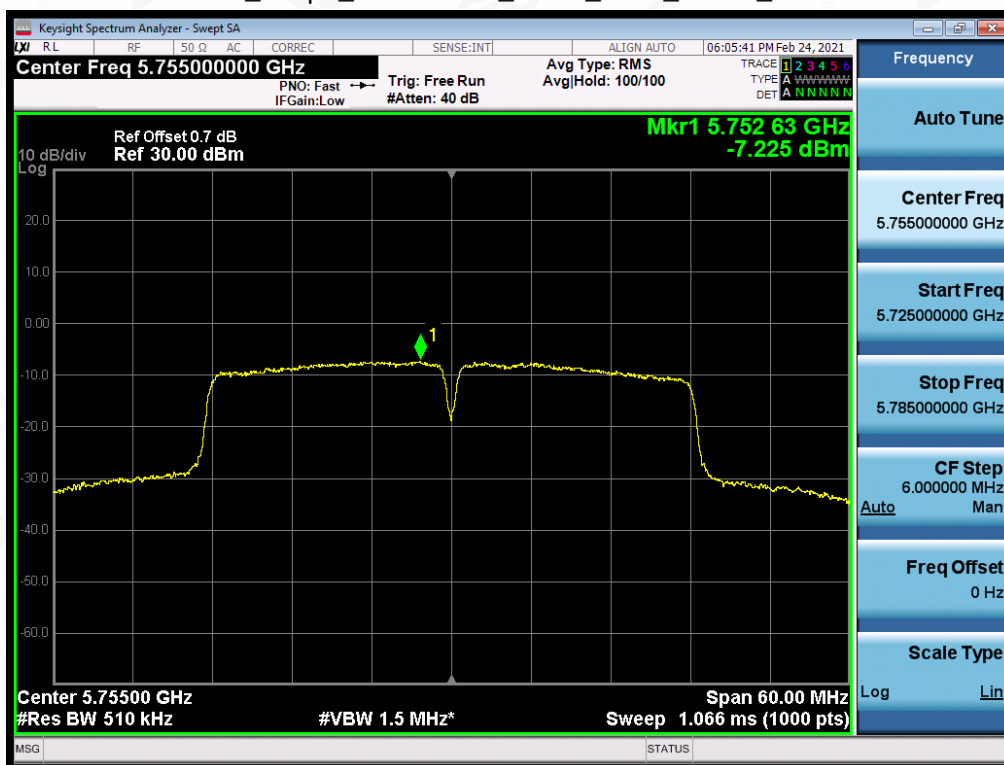
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Test_Graph_802.11ac20_ANT1_5825_MCS9_PSD

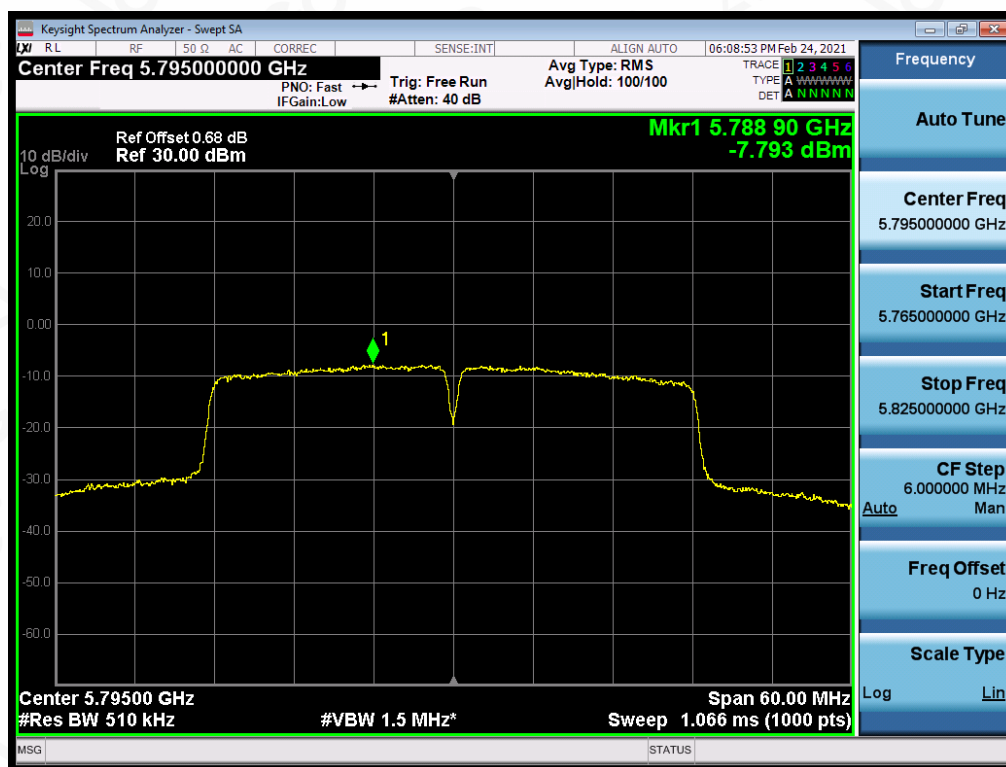


Test_Graph_802.11ac40_ANT1_5755_MCS9_PSD

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Test_Graph_802.11ac40_ANT1_5795_MCS9_PSD

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10. CONDUCTED SPURIOUS EMISSION

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 EUT was tested according to KDB 789033 for compliance to FCC 47CFR 15.407 requirements.

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

The same as described in section 8.2.

10.3. MEASUREMENT EQUIPMENT USED

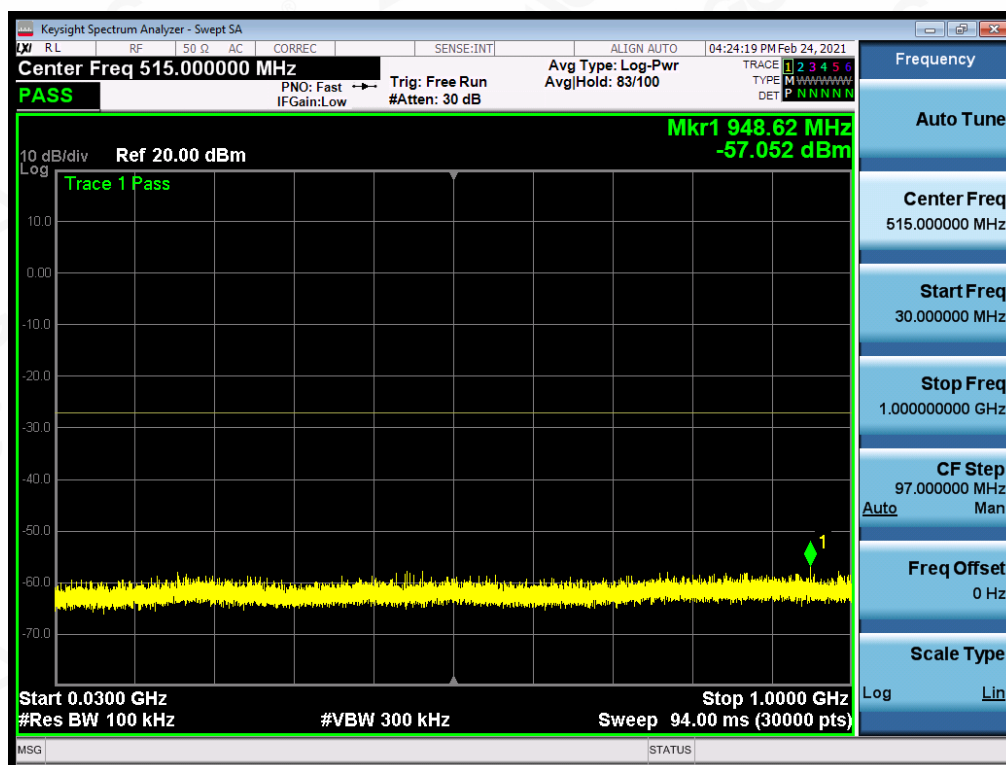
The same as described in section 6.

10.4. LIMITS AND MEASUREMENT RESULT

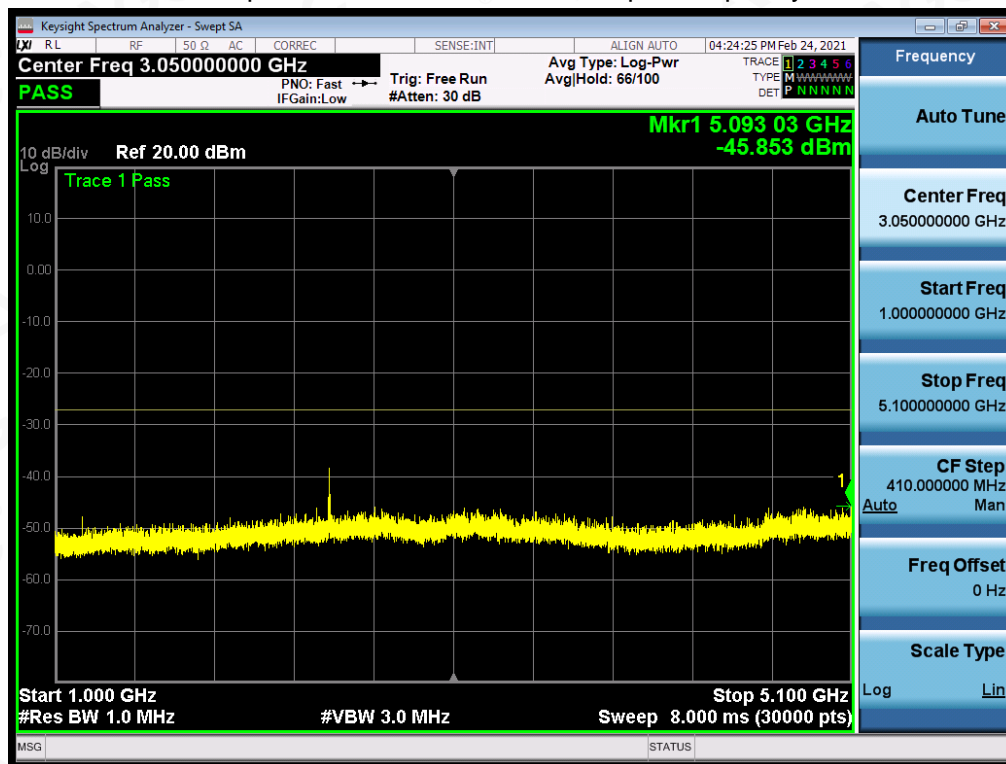
LIMITS AND MEASUREMENT RESULT		
Applicable Limits	Measurement Result	
	Test channel	Criteria
-27dBm/MHz	5150MHz-5250MHz	PASS
All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.	5725MHz-5850MHz	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.

Test Graphs of Spurious Emissions outside of the 5.15-5.35 GHz band for transmitters operating in the 5.15-5.25 GHz band



Test_Graph_802.11a_ANT1_5180_6Mbps_Frequency Band1

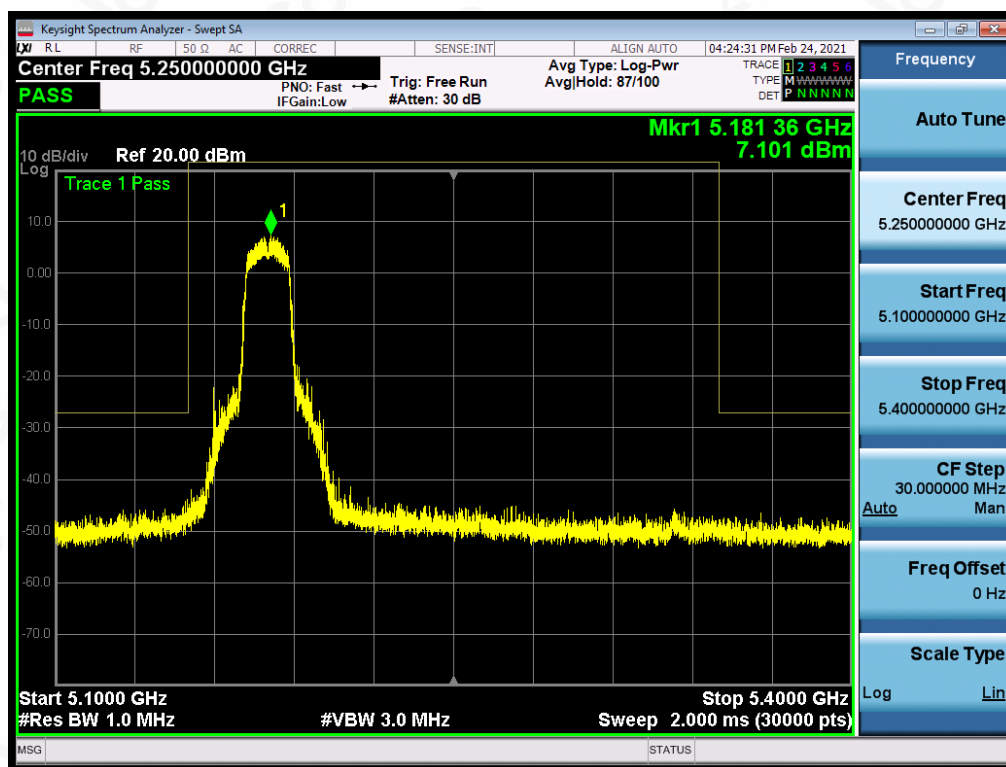


Test_Graph_802.11a_ANT1_5180_6Mbps_Frequency Band2

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Test_Graph_802.11a_ANT1_5180_6Mbps_Frequency Band3

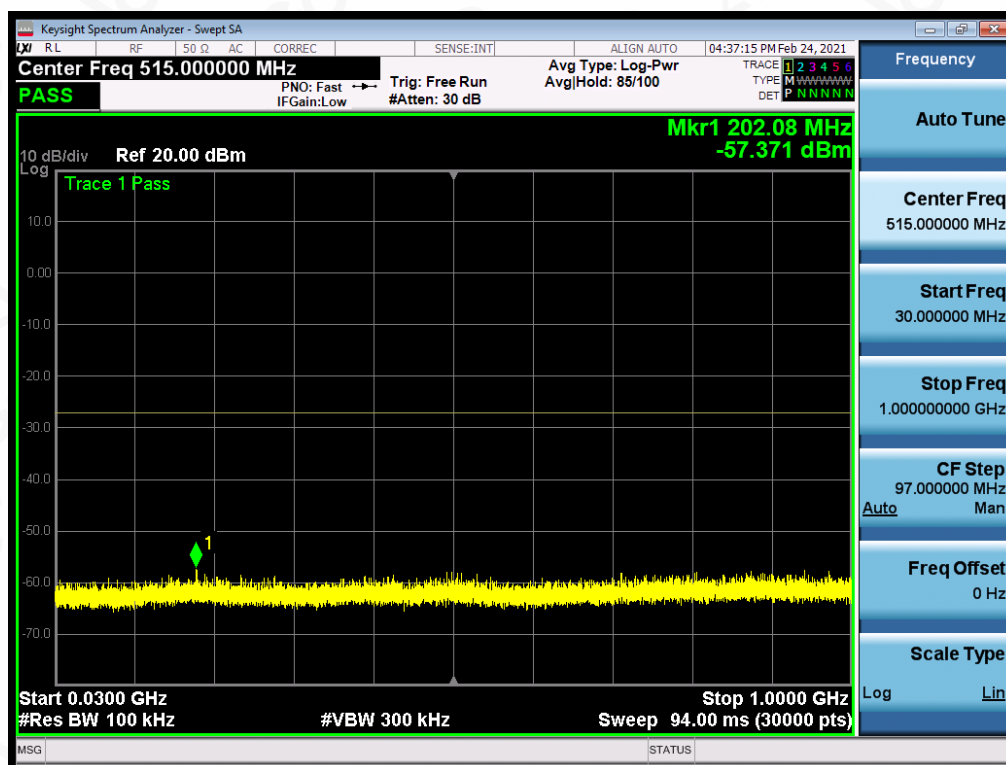


Test_Graph_802.11a_ANT1_5180_6Mbps_Frequency Band4

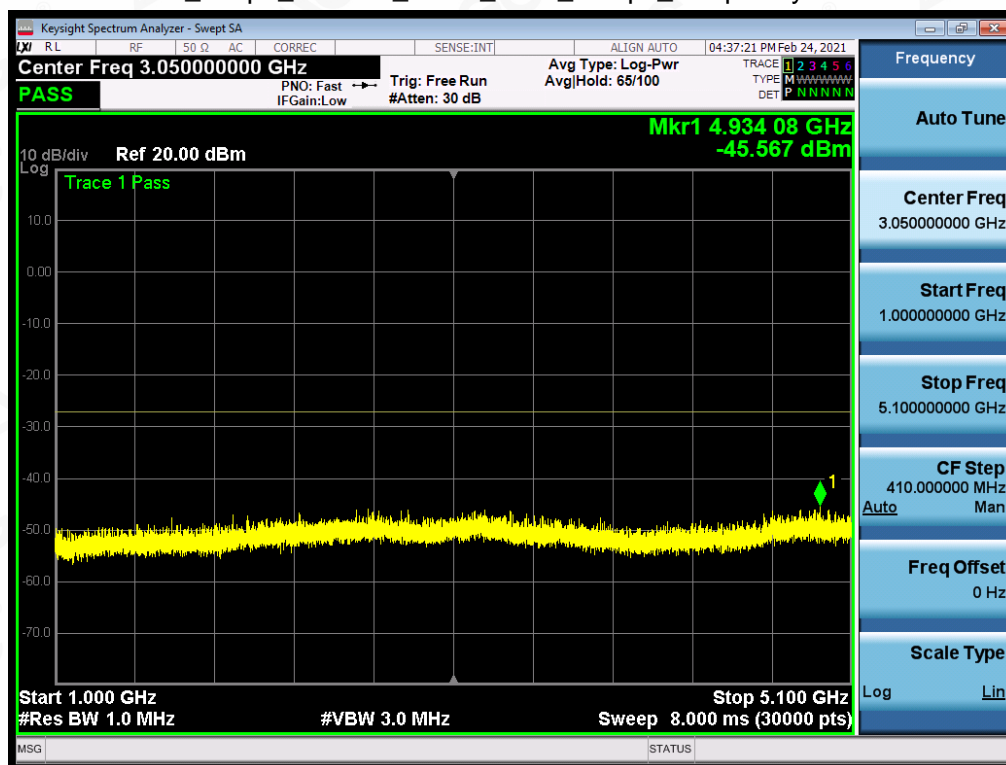
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Test_Graph_802.11a_ANT1_5240_6Mbps_Frequency Band1

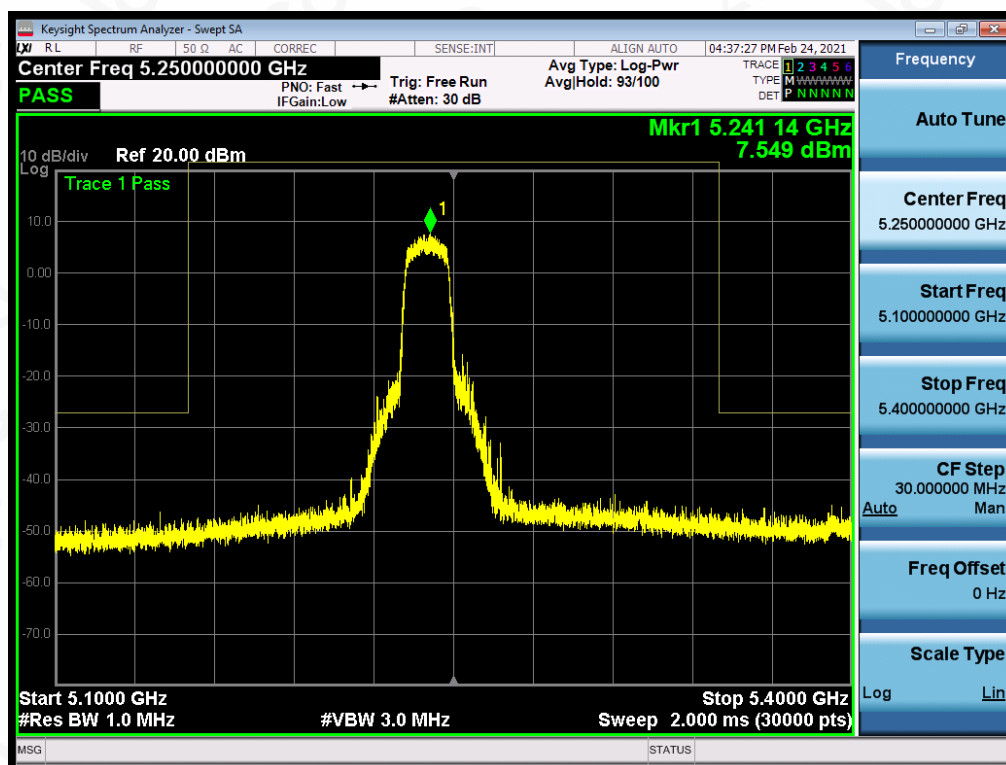


Test_Graph_802.11a_ANT1_5240_6Mbps_Frequency Band2

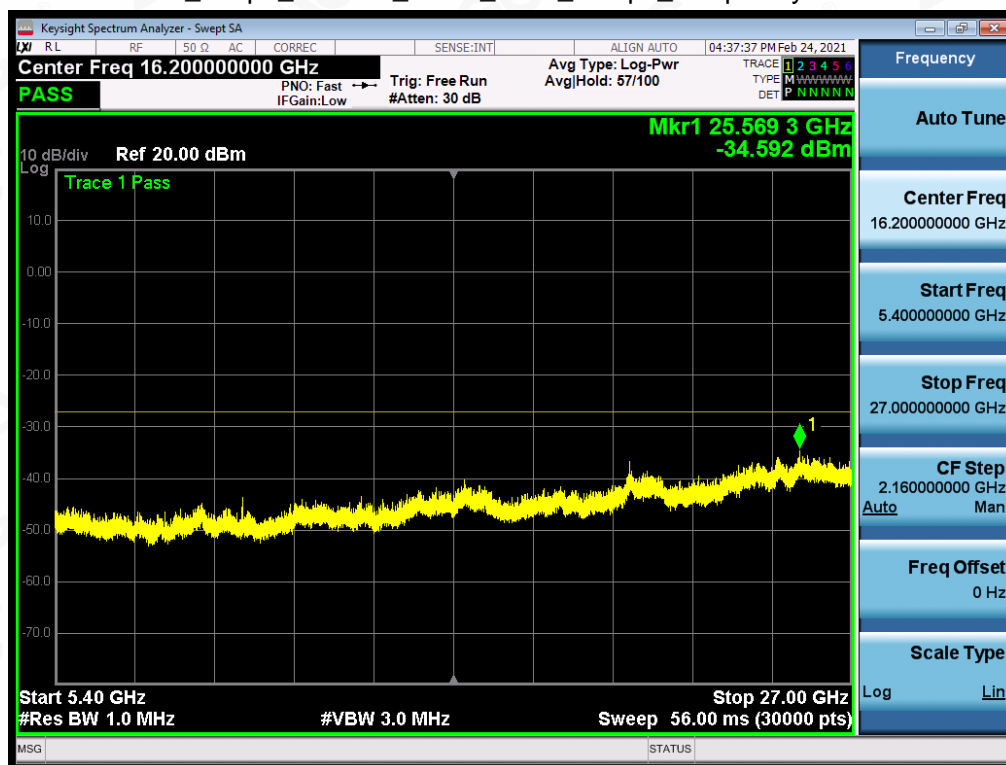
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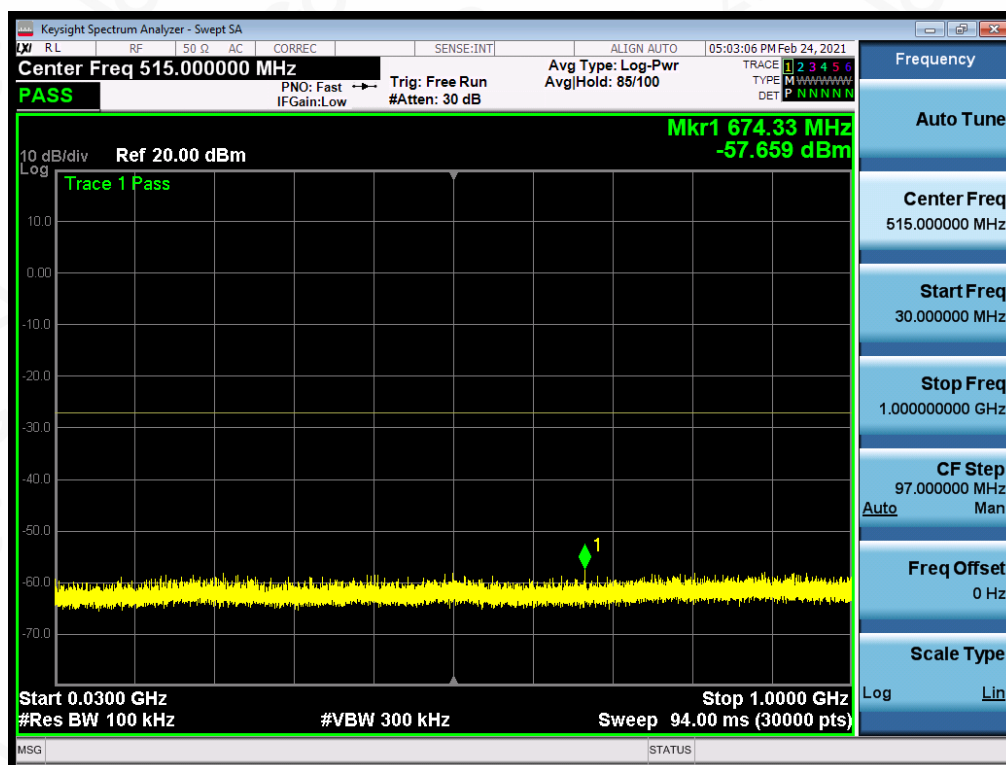


Test_Graph_802.11a_ANT1_5240_6Mbps_Frequency Band4

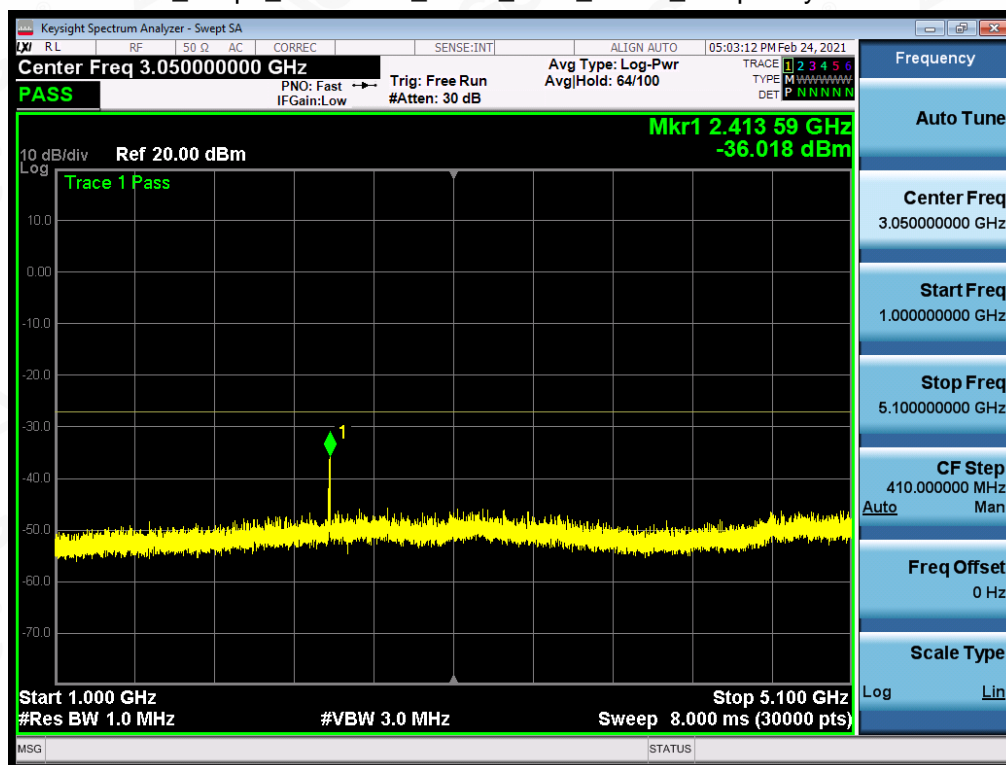
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Test_Graph_802.11n40_ANT1_5190_MCS0_Frequency Band1

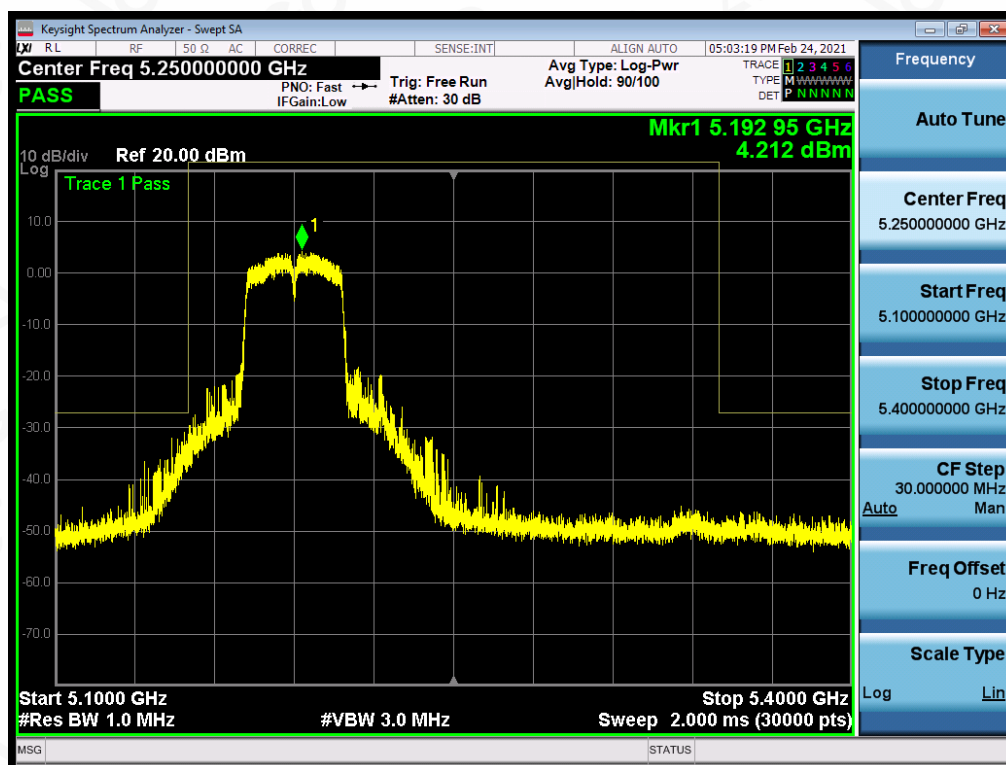


Test_Graph_802.11n40_ANT1_5190_MCS0_Frequency Band2

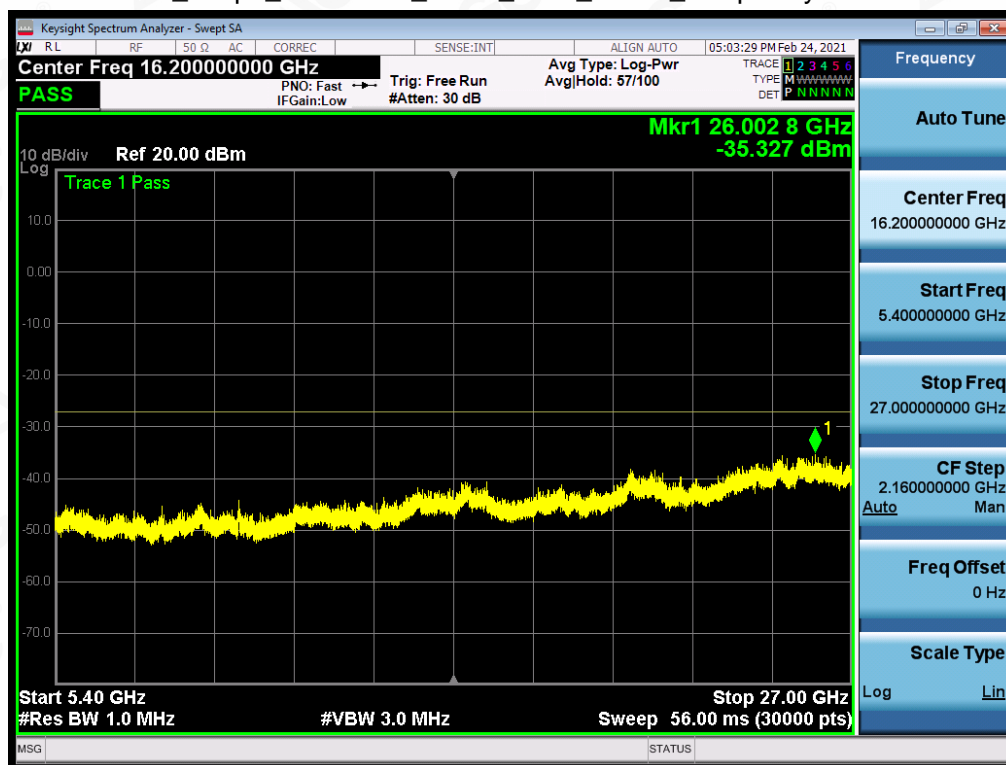
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Test_Graph_802.11n40_ANT1_5190_MCS0_Frequency Band3

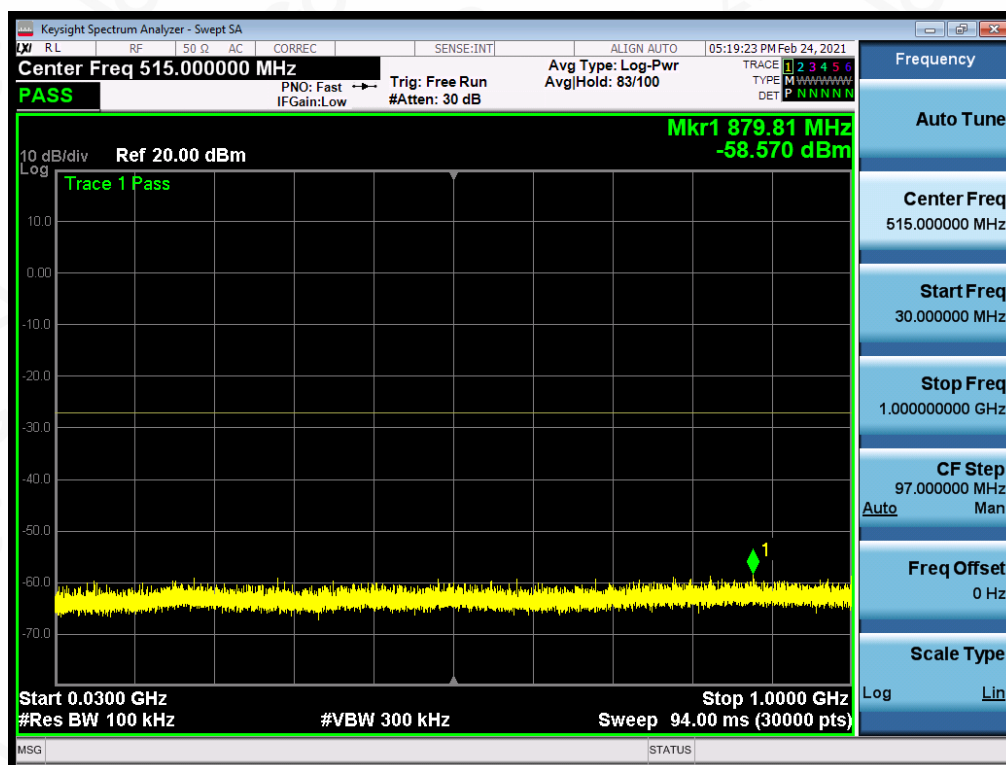


Test_Graph_802.11n40_ANT1_5190_MCS0_Frequency Band4

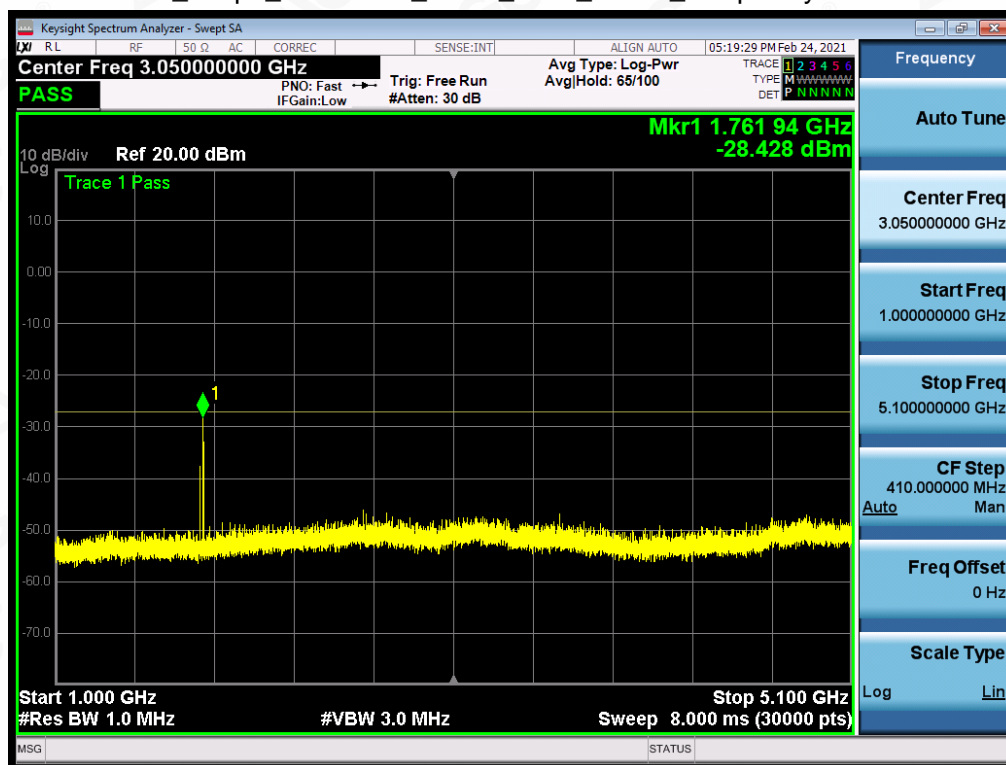
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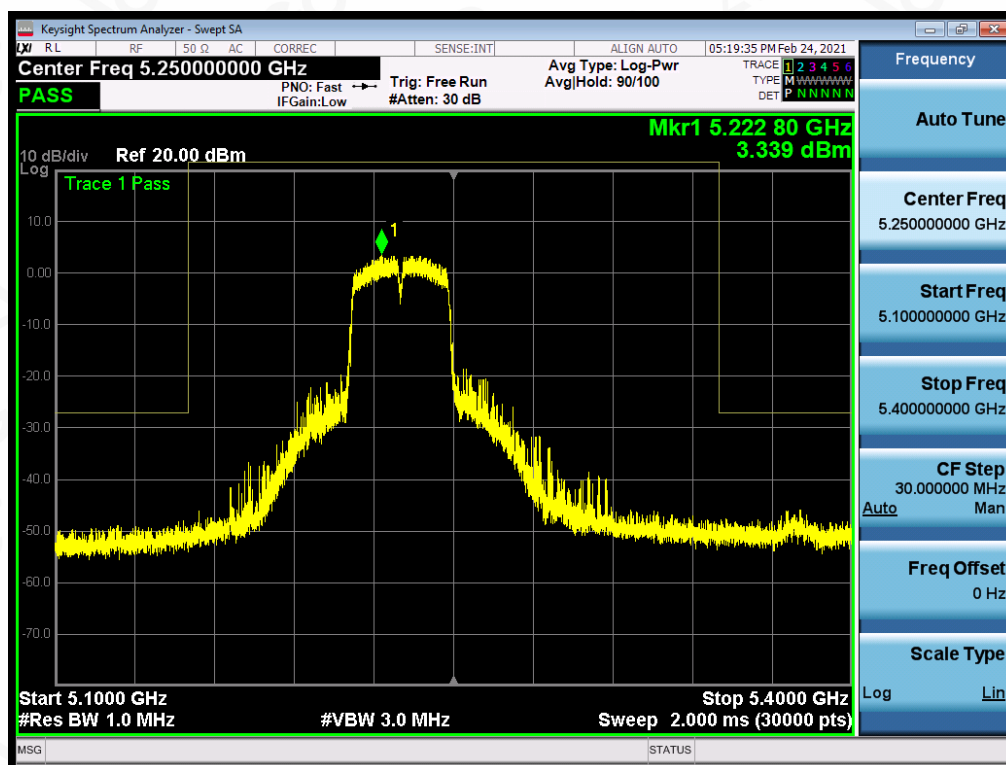


Test_Graph_802.11n40_ANT1_5230_MCS0_Frequency Band2

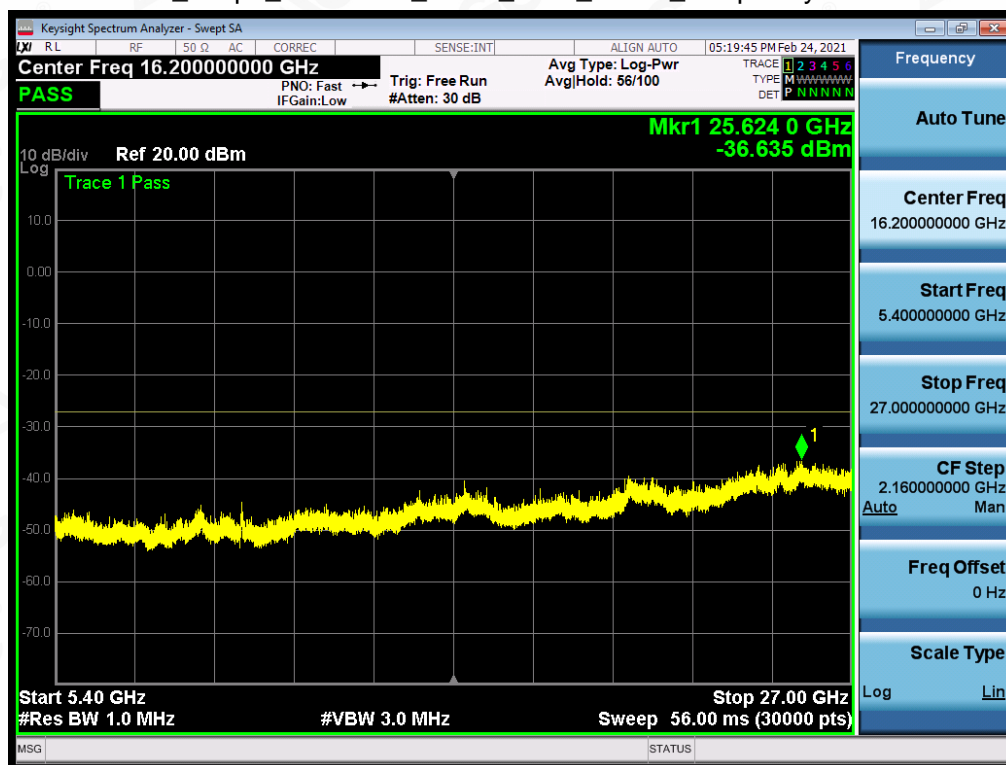
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Test_Graph_802.11n40_ANT1_5230_MCS0_Frequency Band3



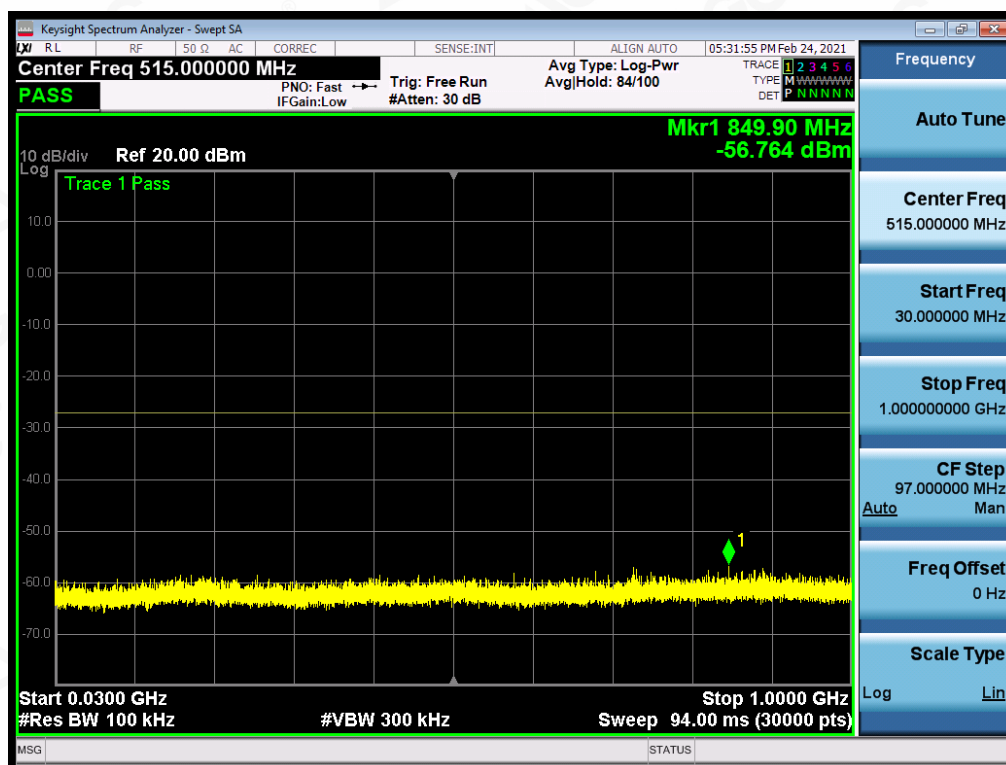
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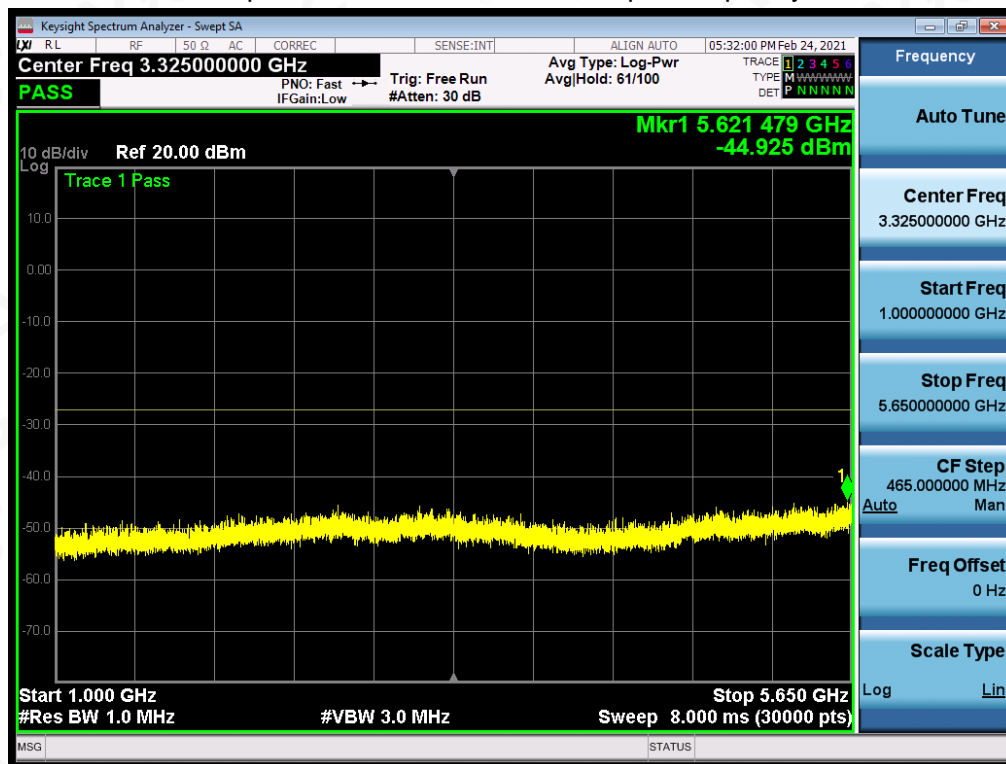
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Test Graphs of Spurious Emissions outside of the 5.725-5.85 GHz band for transmitters operating in the 5.725-5.85 GHz band



Test_Graph_802.11a_ANT1_5745_6Mbps_Frequency Band1

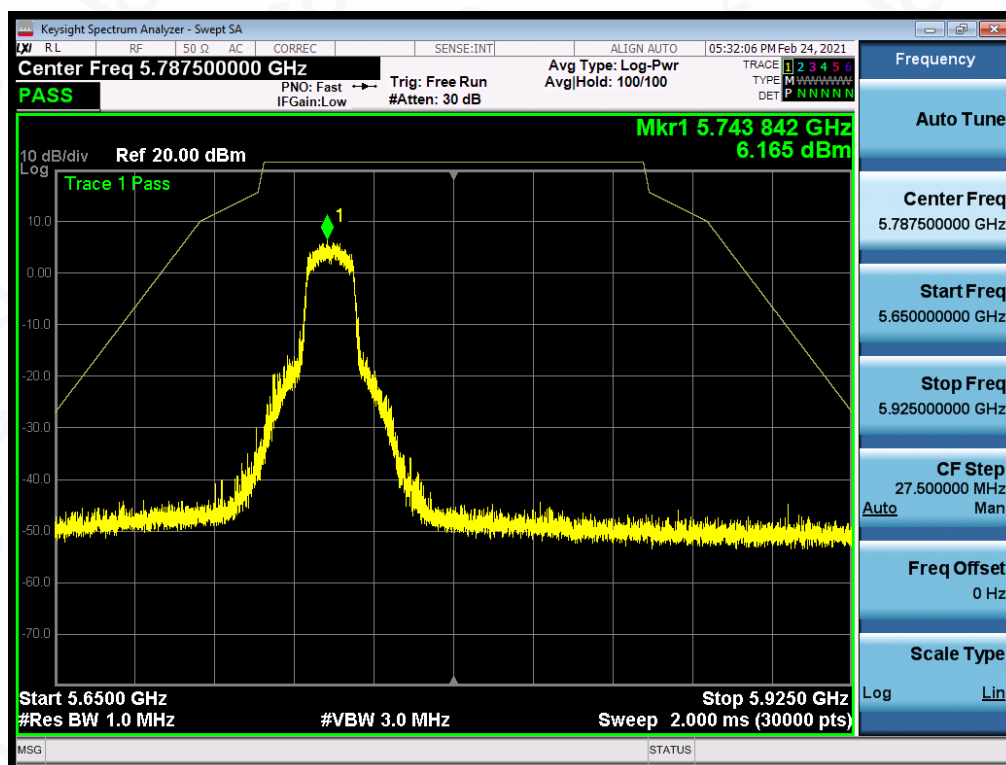


Test_Graph_802.11a_ANT1_5745_6Mbps_Frequency Band2

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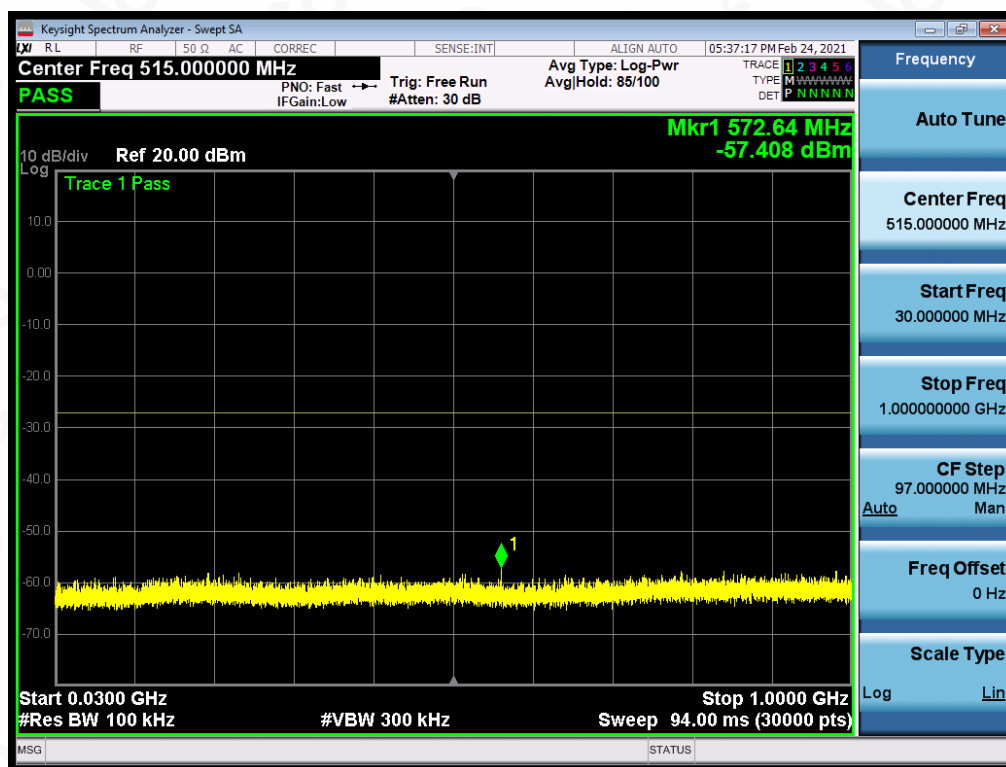


Test_Graph_802.11a_ANT1_5745_6Mbps_Frequency Band4

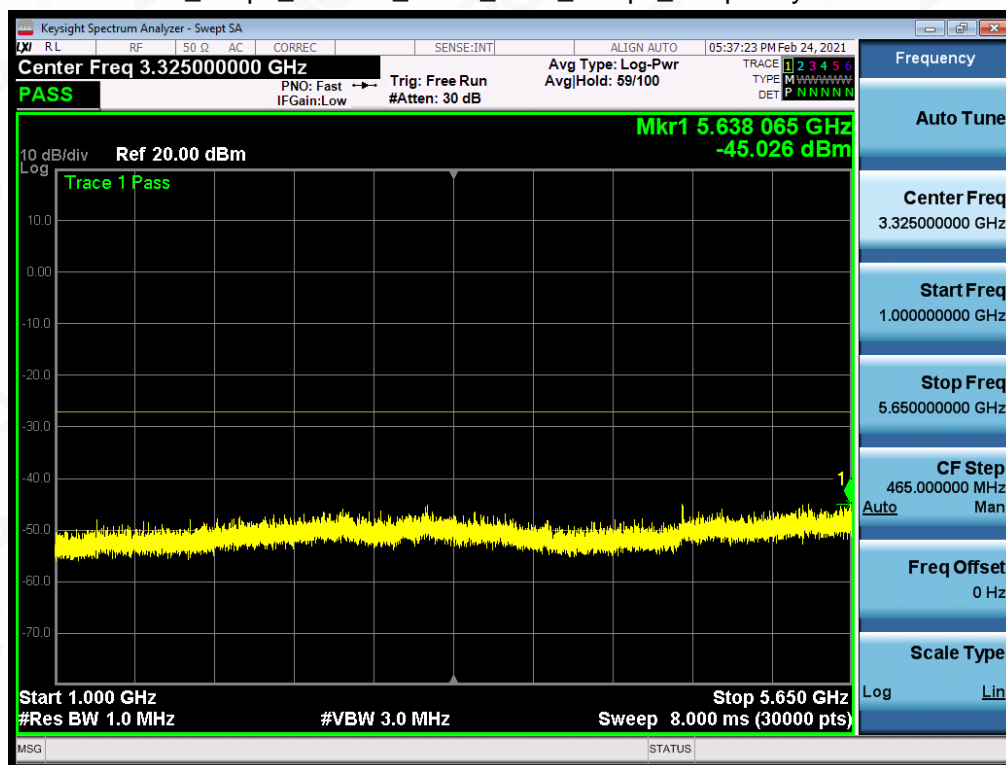
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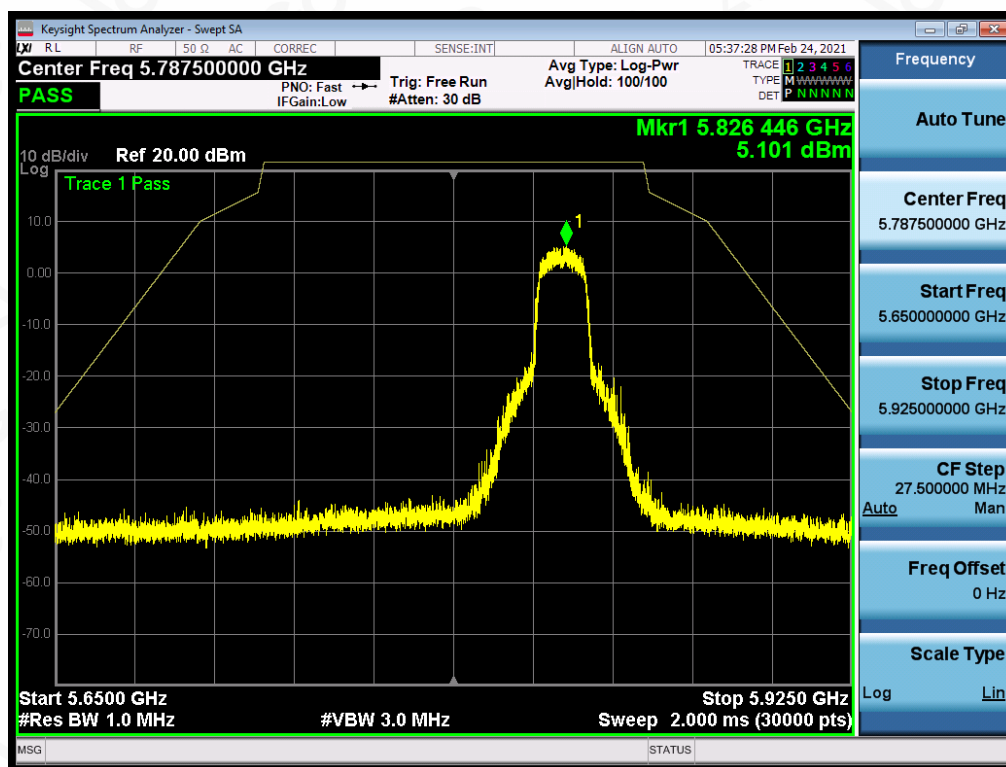


Test_Graph_802.11a_ANT1_5825_6Mbps_Frequency Band2

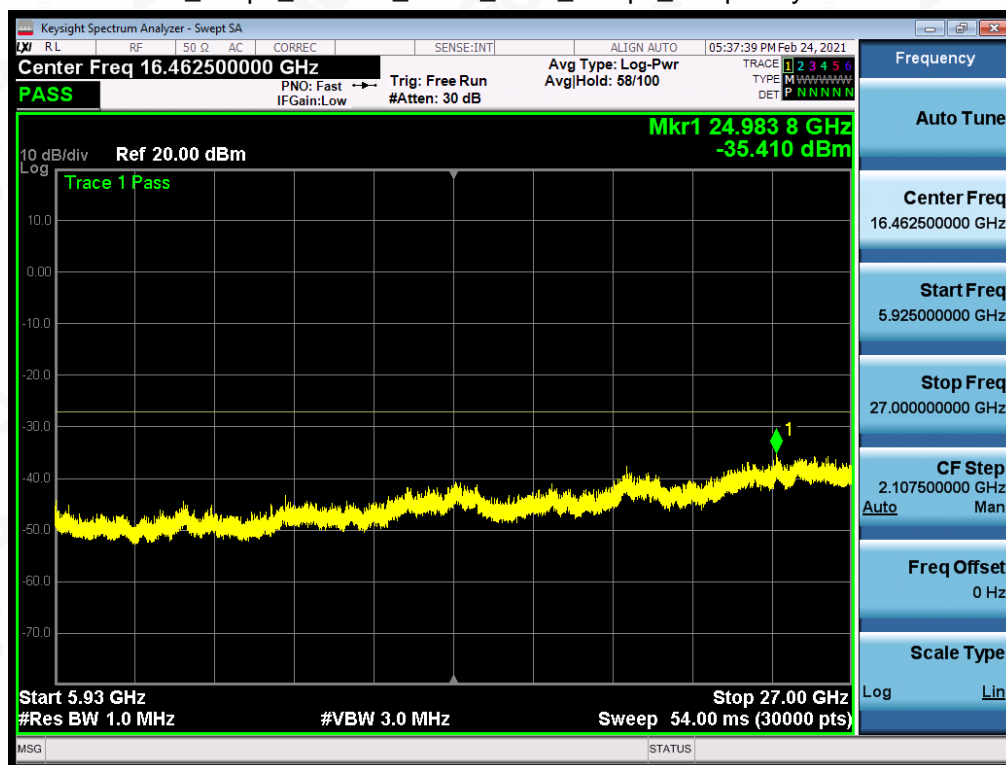
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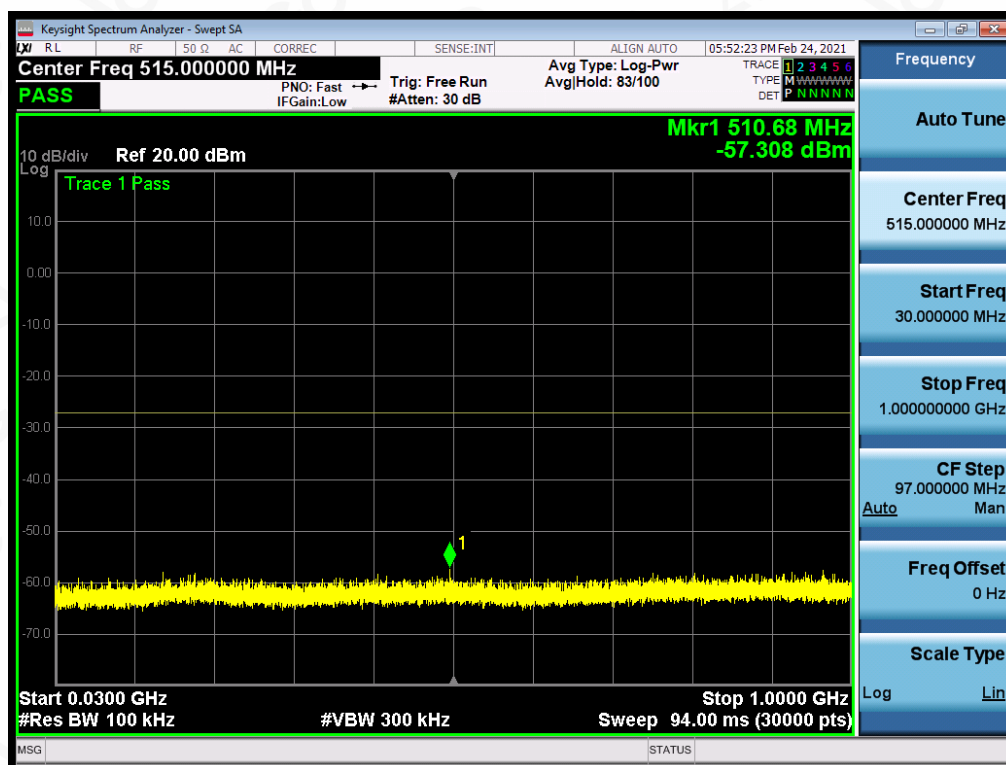


Test_Graph_802.11a_ANT1_5825_6Mbps_Frequency Band4

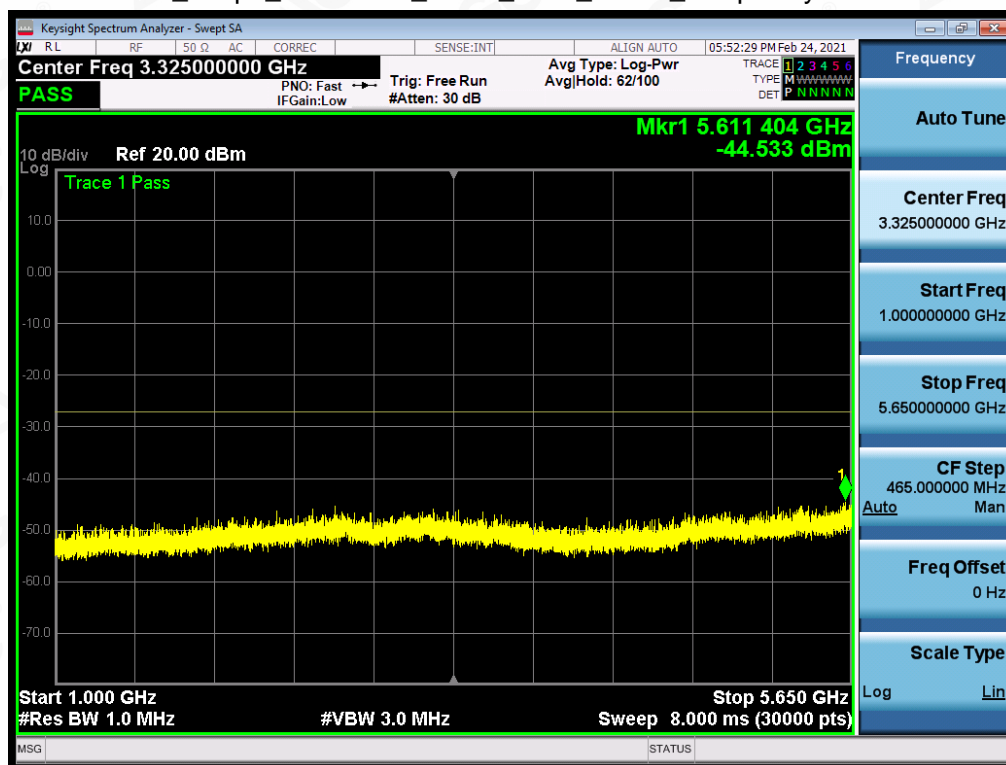
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Test_Graph_802.11n40_ANT1_5755_MCS0_Frequency Band1

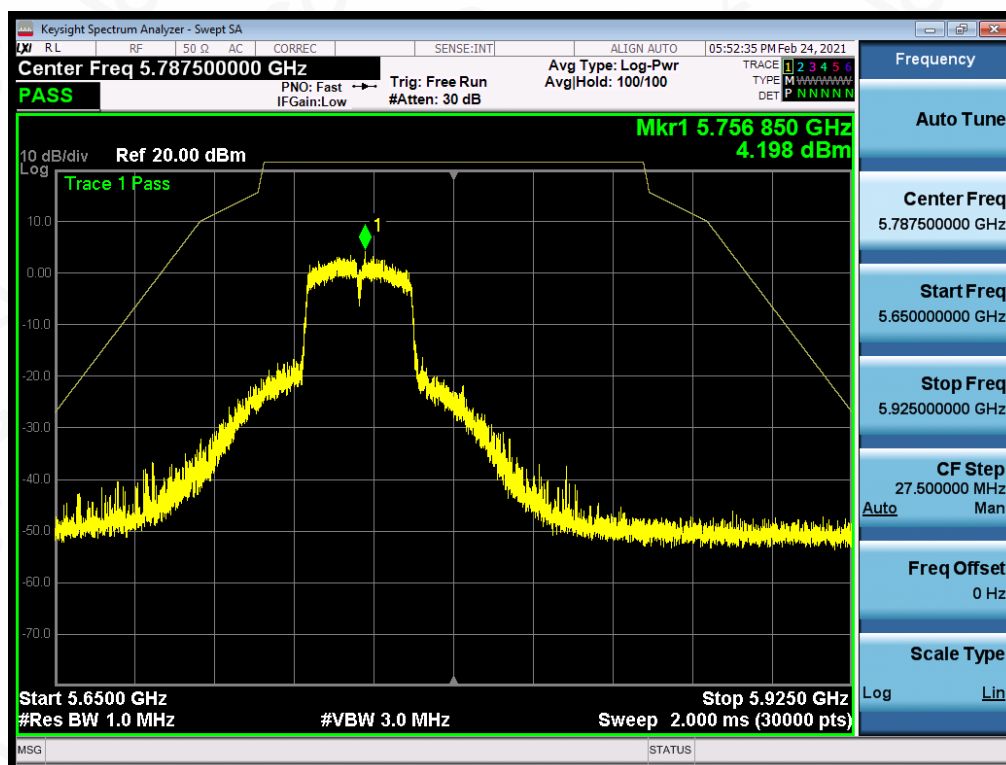


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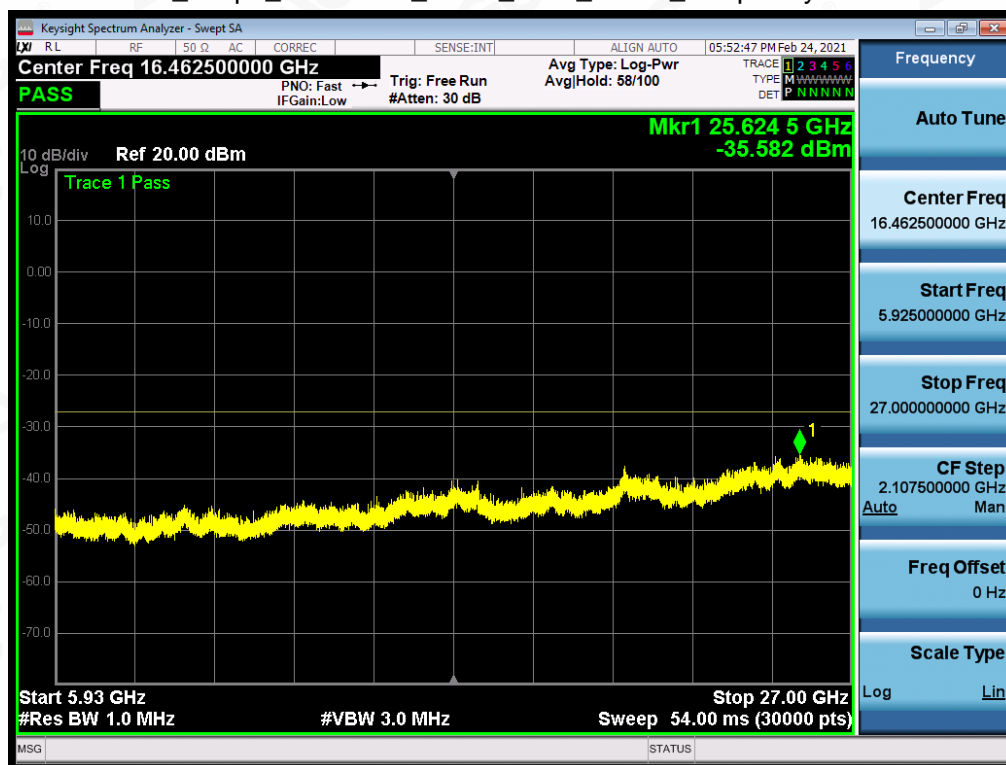
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Test_Graph_802.11n40_ANT1_5755_MCS0_Frequency Band3

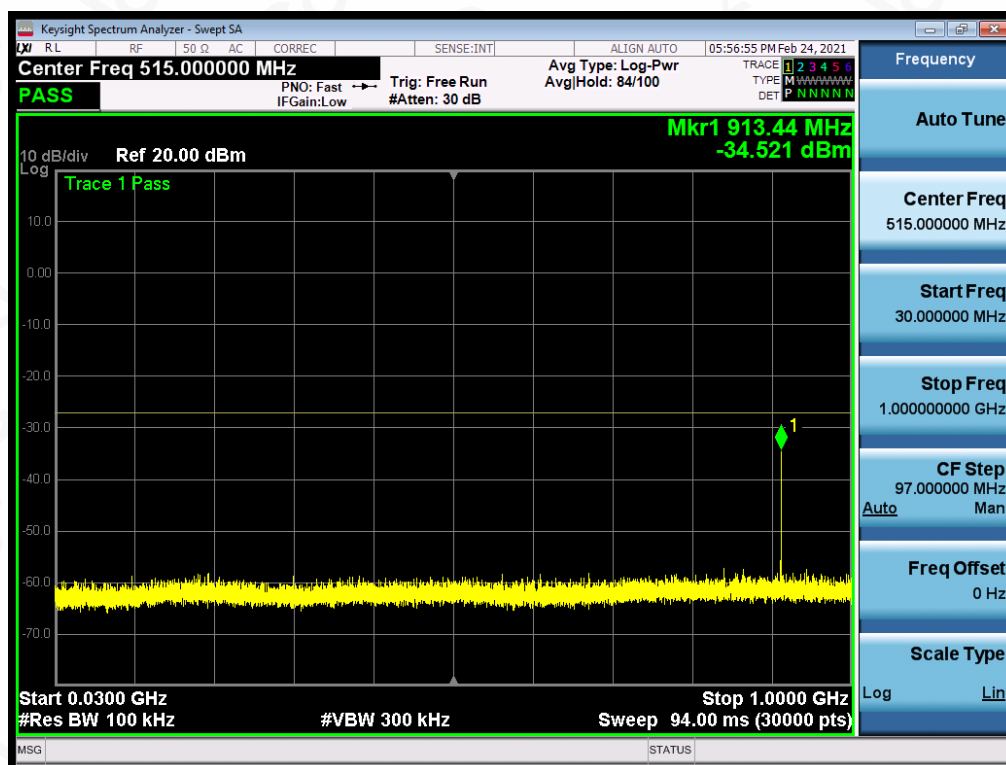


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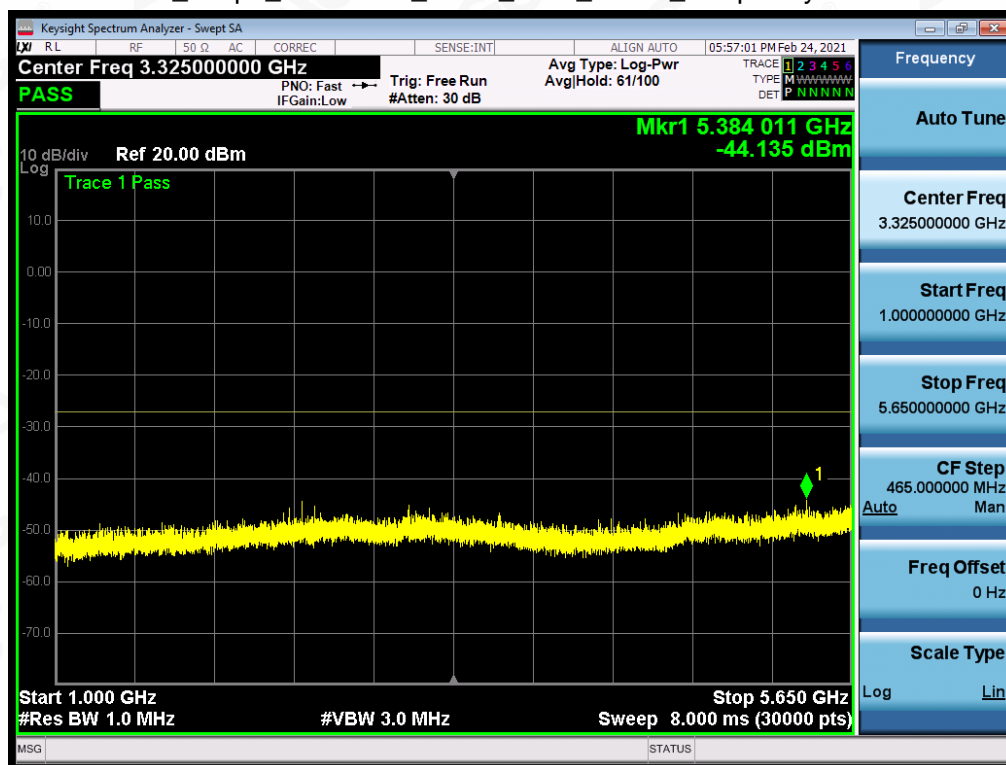
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Test_Graph_802.11n40_ANT1_5795_MCS0_Frequency Band1

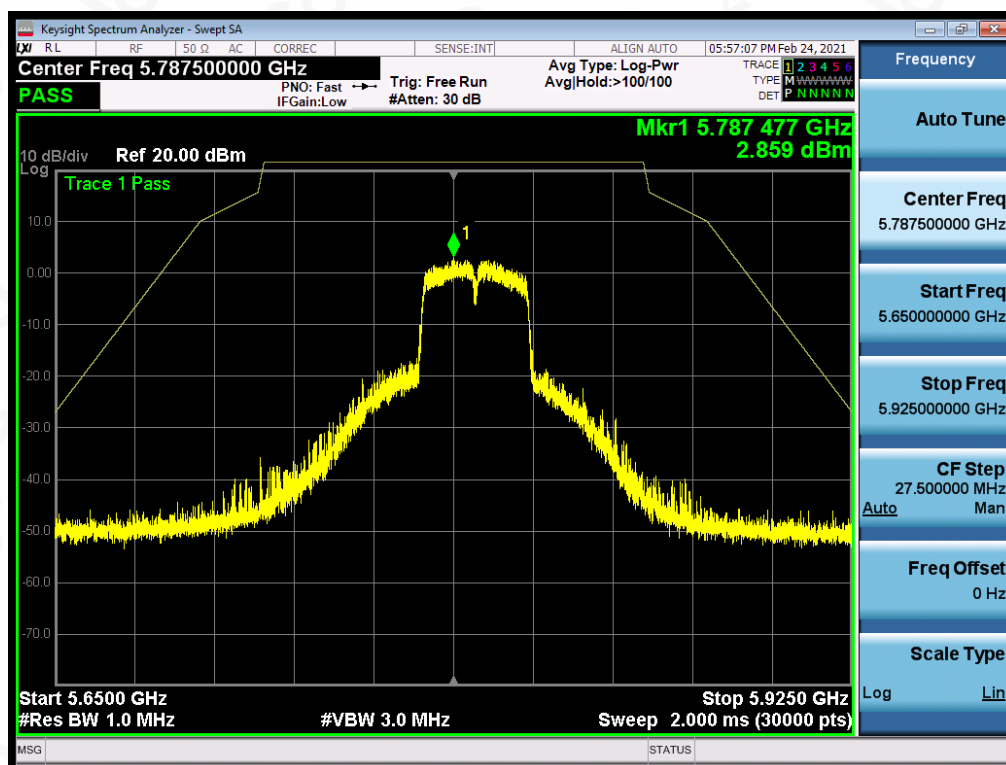


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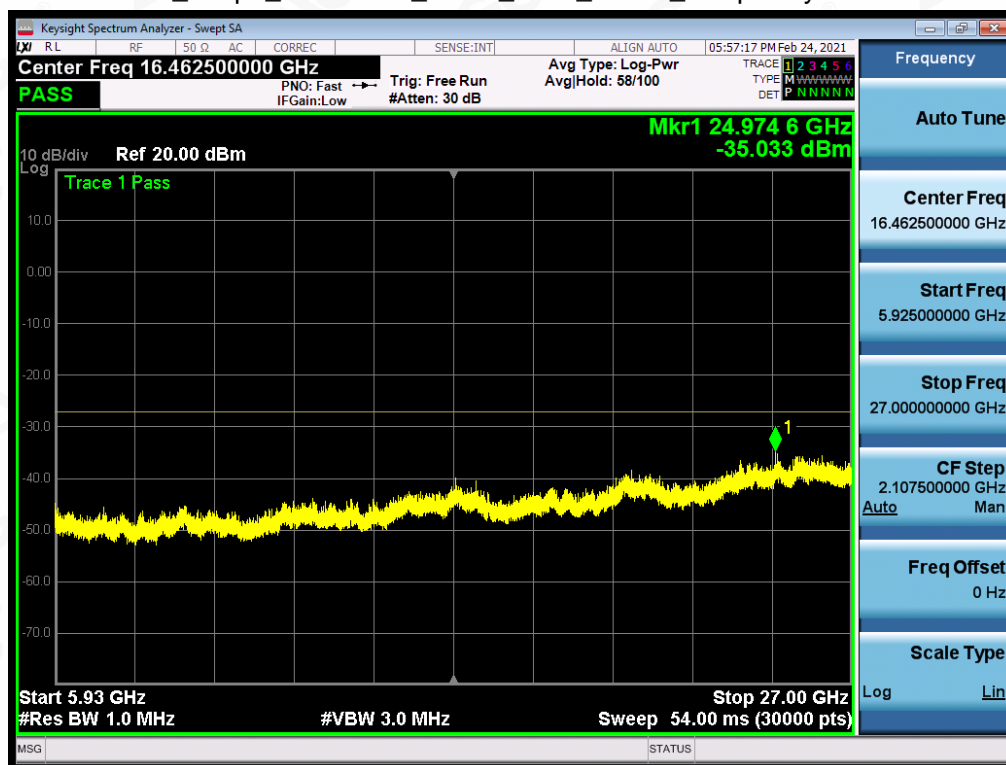
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Test_Graph_802.11n40_ANT1_5795_MCS0_Frequency Band3



Test_Graph_802.11n40_ANT1_5795_MCS0_Frequency Band4

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11. RADIATED EMISSION

11.1. MEASUREMENT PROCEDURE

1. The EUT was placed on the top of the turntable 0.8 or 1.5 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
4. For each suspected emission, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
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.

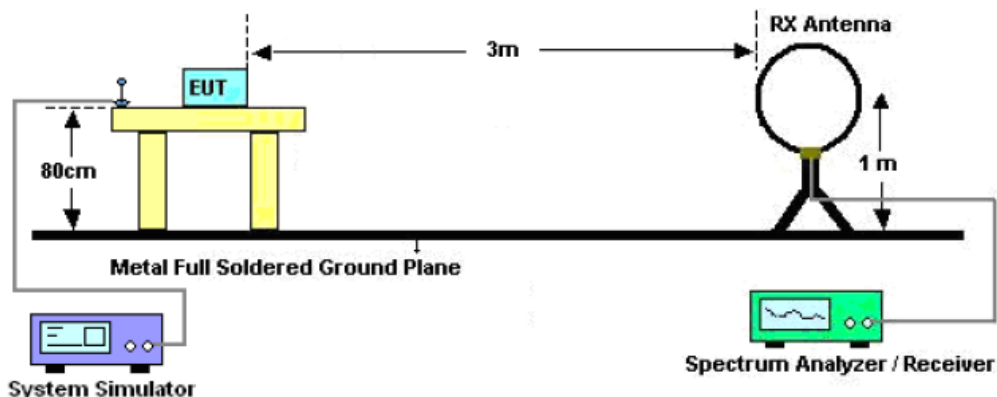
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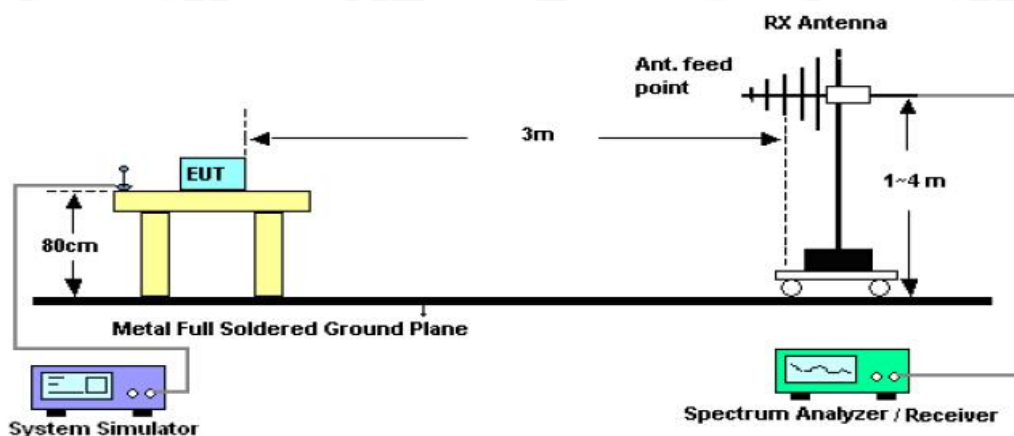


11.2. TEST SETUP

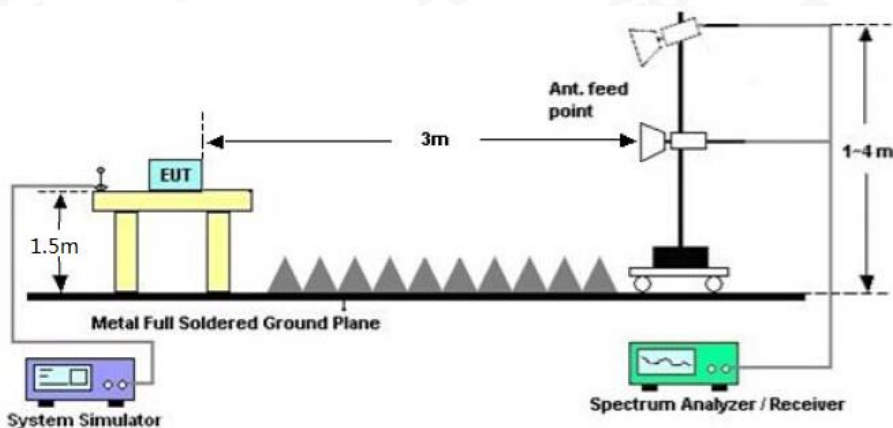
Radiated Emission Test-Setup Frequency Below 30MHz



RADIATED EMISSION TEST SETUP 30MHz-1000MHz



RADIATED EMISSION TEST SETUP ABOVE 1000MHz



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11.3. LIMITS AND MEASUREMENT RESULT

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

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

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

11.4. TEST RESULT

Radiated emission below 30MHz

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

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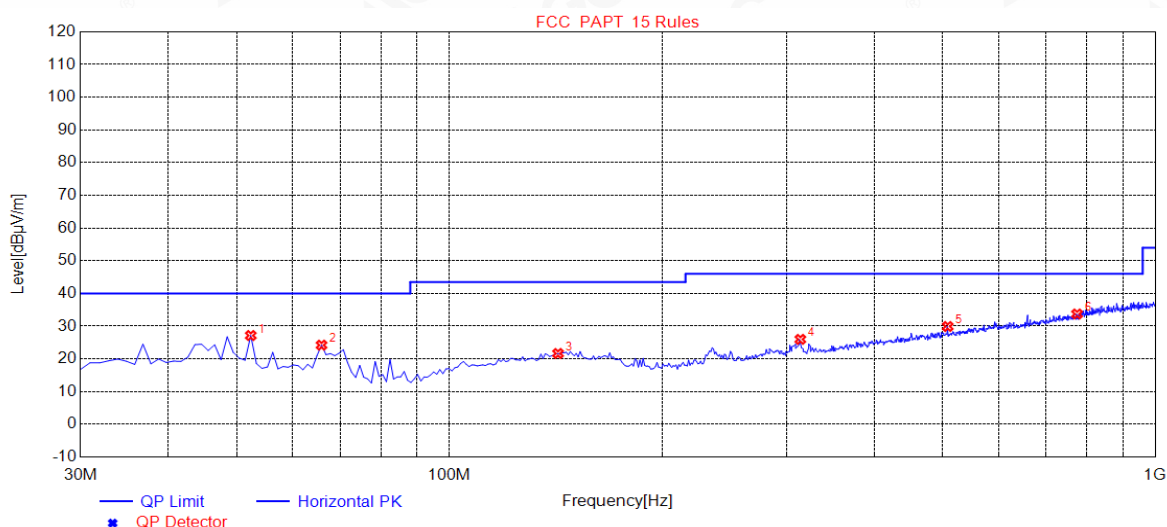
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Adapter 1: TPA-97H050100UW01

Radiated emission from 30MHz to 1000MHz

EUT	Smart phone	Model Name	M7
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5180MHz	Antenna	Horizontal



NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	52.3100	27.15	11.49	40.00	12.85	100	235	Horizontal
2	65.8900	24.21	9.93	40.00	15.79	200	321	Horizontal
3	142.5200	21.66	14.88	43.50	21.84	200	229	Horizontal
4	314.2100	25.98	16.44	46.00	20.02	100	124	Horizontal
5	508.2100	29.91	22.35	46.00	16.09	100	316	Horizontal
6	774.9600	33.73	27.80	46.00	12.27	100	39	Horizontal

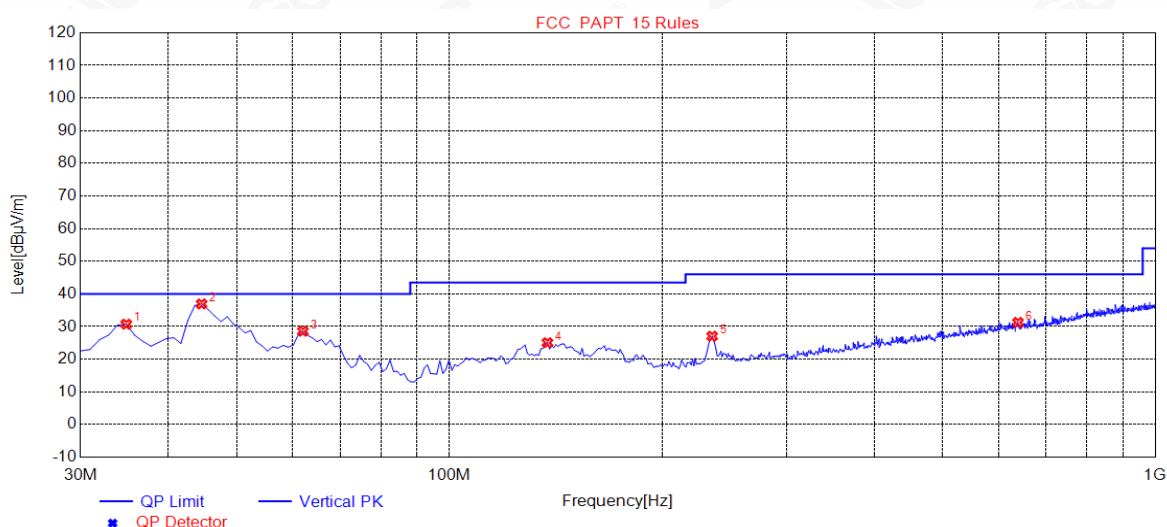
RESULT: PASS

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EUT	Smart phone	Model Name	M7
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	34.8500	30.74	10.70	40.00	9.26	100	254	Vertical
2	44.5500	36.95	11.82	40.00	3.05	100	192	Vertical
3	62.0100	28.59	10.58	40.00	11.41	100	349	Vertical
4	137.6700	25.06	14.71	43.50	18.44	100	110	Vertical
5	235.6400	27.07	14.48	46.00	18.93	100	326	Vertical
6	639.1600	31.28	24.94	46.00	14.72	100	54	Vertical

RESULT: PASS

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

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

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

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Radiated emission above 1GHz

EUT	Smart phone	Model Name	M7
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 (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
10360.042	46.32	9.14	55.46	68.2	-12.74	peak
15540.063	40.52	10.22	50.74	74	-23.26	AVG
15540.063	31.59	10.22	41.81	54	-12.19	peak
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

RADIATED EMISSION ABOVE 1GHZ–Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
10360.042	46.71	9.14	55.85	68.2	-12.35	peak
15540.063	41.03	10.22	51.25	74	-22.75	AVG
15540.063	31.46	10.22	41.68	54	-12.32	peak
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

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EUT	Smart phone	Model Name	M7
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 (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
10400.042	47.23	9.14	56.28	68.20	-11.92	peak
15600.063	42.08	10.22	51.39	74.00	-22.61	AVG
15600.063	33.12	10.22	42.78	54.00	-11.22	peak
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

RADIATED EMISSION ABOVE 1GHZ–Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
10400.042	46.21	9.14	55.35	68.20	-12.85	peak
15600.063	40.53	10.22	50.75	74.00	-23.25	AVG
15600.063	31.46	10.22	41.68	54.00	-12.32	peak
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

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EUT	Smart phone	Model Name	M7
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 (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
10480.042	48.28	9.14	57.42	68.20	-10.78	peak
15720.063	42.37	10.22	52.59	74.00	-21.41	AVG
15720.063	31.95	10.22	42.17	54.00	-11.83	peak
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

RADIATED EMISSION ABOVE 1GHZ–Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
10480.042	46.85	9.14	55.99	68.20	-12.21	peak
15720.063	42.03	10.22	52.25	74.00	-21.75	AVG
15720.063	31.68	10.22	41.9	54.00	-12.1	peak
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

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EUT	Smart phone	Model Name	M7
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 (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
11490.420	46.55	9.42	55.97	74.00	-18.03	peak
11490.420	37.28	9.42	46.7	54.00	-7.3	AVG
17235.063	39.77	10.51	50.28	68.20	-17.92	peak
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

RADIATED EMISSION ABOVE 1GHZ–Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
11490.042	46.85	9.42	56.27	74.00	-17.73	peak
11490.042	42.03	9.42	51.45	54.00	-2.55	AVG
17235.063	31.68	10.51	42.19	68.20	-26.01	peak
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

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EUT	Smart phone	Model Name	M7
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 (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
11570.042	45.61	9.42	55.03	74.00	-18.97	peak
11570.042	34.93	9.42	44.35	54.00	-9.65	AVG
17355.063	41.28	10.51	51.79	68.20	-16.41	peak

Remark:

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

RADIATED EMISSION ABOVE 1GHZ–Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
11570.042	47.36	9.42	56.78	74.00	-17.22	peak
11570.042	36.13	9.42	45.55	54.00	-8.45	AVG
17355.063	41.88	10.51	52.39	68.20	-15.81	peak

Remark:

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

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EUT	Smart phone	Model Name	M7
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 (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
11650.042	45.26	9.62	54.88	74.00	-19.12	peak
11650.042	37.17	9.62	46.79	54.00	-7.21	AVG
17475.063	41.13	10.75	51.88	68.20	-16.32	peak
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

RADIATED EMISSION ABOVE 1GHZ–Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
11650.042	46.25	9.62	55.87	74.00	-18.13	peak
11650.042	36.48	9.62	46.10	54.00	-7.90	AVG
17475.063	41.09	10.75	51.84	68.20	-16.36	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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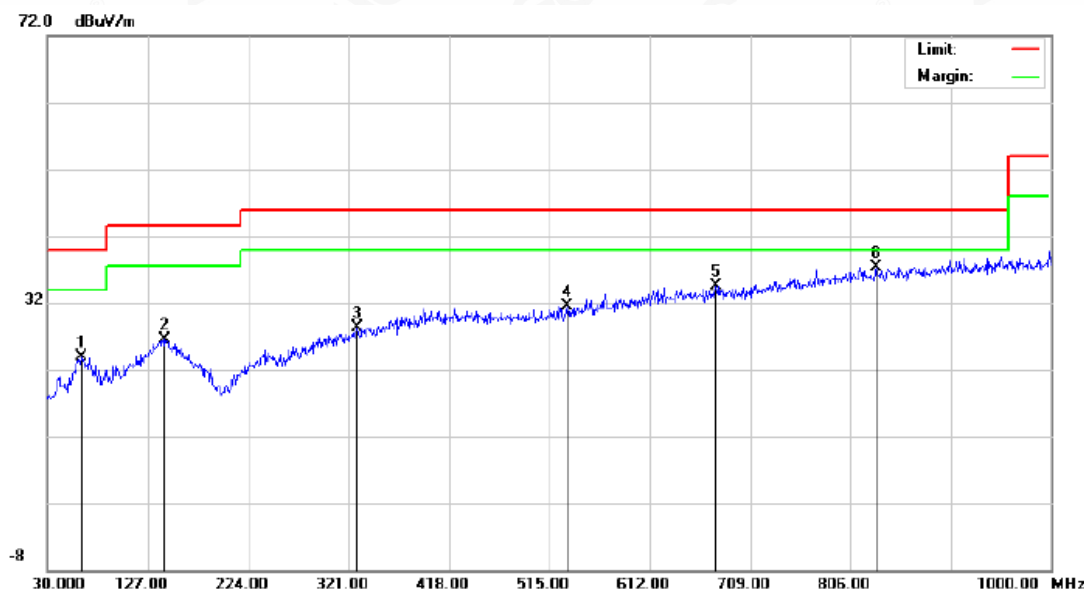
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Adapter 2: DCS10-0501000F

Radiated emission from 30MHz to 1000MHz

EUT	Smart phone	Model Name	M7
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5180MHz	Antenna	Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		62.9800	6.20	17.64	23.84	40.00	-16.16	peak
2		142.5200	5.46	20.97	26.43	43.50	-17.07	peak
3		328.7600	5.74	22.48	28.22	46.00	-17.78	peak
4		532.4600	5.92	25.63	31.55	46.00	-14.45	peak
5		676.0200	6.56	27.86	34.42	46.00	-11.58	peak
6	*	831.2199	6.50	30.81	37.31	46.00	-8.69	peak

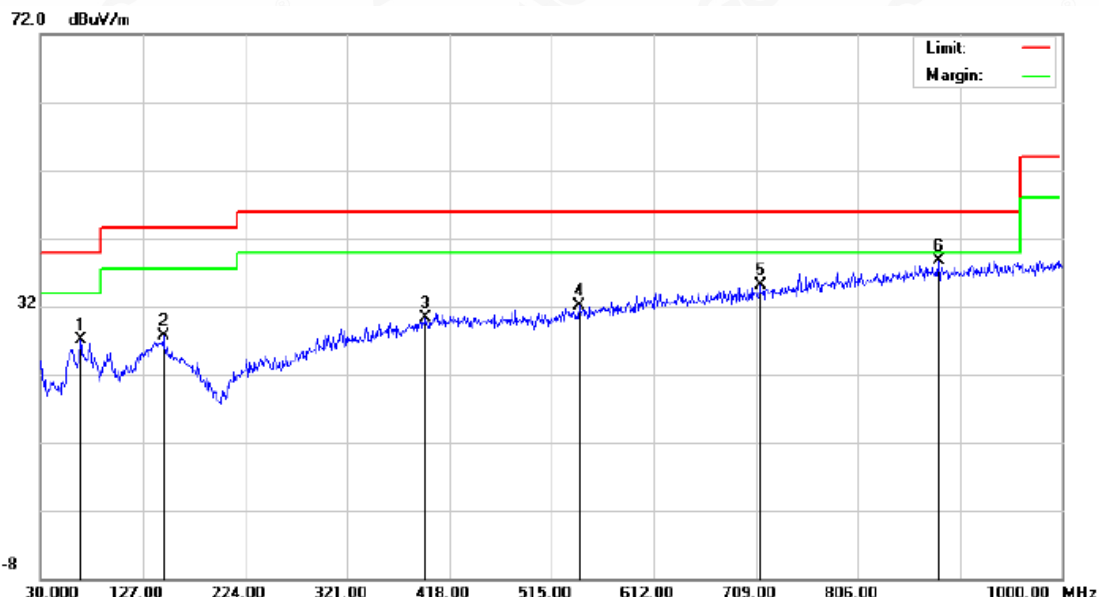
RESULT: PASS

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EUT	Smart phone	Model Name	M7
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5180MHz	Antenna	Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		67.8300	9.79	17.27	27.06	40.00	-12.94	peak
2		146.4000	7.05	20.58	27.63	43.50	-15.87	peak
3		395.6900	5.48	24.83	30.31	46.00	-15.69	peak
4		541.1900	6.27	25.80	32.07	46.00	-13.93	peak
5		712.8800	6.72	28.44	35.16	46.00	-10.84	peak
6	*	882.6300	7.16	31.48	38.64	46.00	-7.36	peak

RESULT: PASS

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

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

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

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Radiated emission above 1GHz

EUT	Smart phone	Model Name	M7
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5180MHz	Antenna	Horizontal/Vertical

RADIATED EMISSION ABOVE 1GHZ–Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
10360.042	46.15	9.14	55.29	68.20	-12.91	peak
15540.063	39.85	10.22	50.07	74.00	-23.93	AVG
15540.063	32.03	10.22	42.25	54.00	-11.75	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)	
10360.042	45.33	9.14	54.47	68.20	-13.73	peak
15540.063	36.37	10.22	46.59	74.00	-27.41	AVG
15540.063	31.52	10.22	41.74	54.00	-12.26	peak
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

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EUT	Smart phone	Model Name	M7
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 (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
10400.042	47.19	9.14	56.33	68.20	-11.87	peak
15600.063	41.05	10.22	51.27	74.00	-22.73	AVG
15600.063	33.09	10.22	43.31	54.00	-10.69	peak
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

RADIATED EMISSION ABOVE 1GHZ–Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
10400.042	46.15	9.14	55.29	68.20	-12.91	peak
15600.063	40.44	10.22	50.66	74.00	-23.34	AVG
15600.063	31.19	10.22	41.41	54.00	-12.59	peak
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

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EUT	Smart phone	Model Name	M7
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 (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
10480.042	48.22	9.27	57.49	68.20	-10.71	peak
15720.063	42.09	10.38	52.47	74.00	-21.53	AVG
15720.063	31.96	10.38	42.34	54.00	-11.66	peak
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

RADIATED EMISSION ABOVE 1GHZ–Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
10480.042	46.88	9.27	56.15	68.20	-12.05	peak
15720.063	42.03	10.38	52.41	74.00	-21.59	AVG
15720.063	32.06	10.38	42.44	54.00	-11.56	peak
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

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EUT	Smart phone	Model Name	M7
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 (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
11490.042	46.58	9.42	56.00	74.00	-18.00	peak
11490.042	38.12	9.42	47.54	54.00	-6.46	AVG
17235.063	39.28	10.51	49.79	68.20	-18.41	peak
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

RADIATED EMISSION ABOVE 1GHZ–Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
11490.042	45.25	9.42	54.67	74.00	-19.33	peak
11490.042	36.12	9.42	45.54	54.00	-8.46	AVG
17235.063	40.25	10.48	50.73	68.20	-17.47	peak
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

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EUT	Smart phone	Model Name	M7
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 (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
11570.042	46.22	9.42	55.64	74.00	-18.36	peak
11570.042	35.13	9.42	44.55	54.00	-9.45	AVG
17355.063	41.28	10.51	51.79	68.20	-16.41	peak
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

RADIATED EMISSION ABOVE 1GHZ–Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
11570.042	47.25	9.42	56.67	74.00	-17.33	peak
11570.042	36.02	9.42	45.44	54.00	-8.56	AVG
17355.063	41.86	10.48	52.34	68.20	-15.86	peak
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

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EUT	Smart phone	Model Name	M7
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5825MHz	Antenna	Horizontal/Vertical

RADIATED EMISSION ABOVE 1GHZ–Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
11650.042	47.35	9.62	56.97	74.00	-17.03	peak
11650.042	38.13	9.62	47.75	54.00	-6.25	AVG
17475.063	42.33	10.75	53.08	68.20	-15.12	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)	
11650.042	46.33	9.62	55.95	74.00	-18.05	peak
11650.042	36.12	9.62	45.74	54.00	-8.26	AVG
17475.063	41.03	10.75	51.78	68.20	-16.42	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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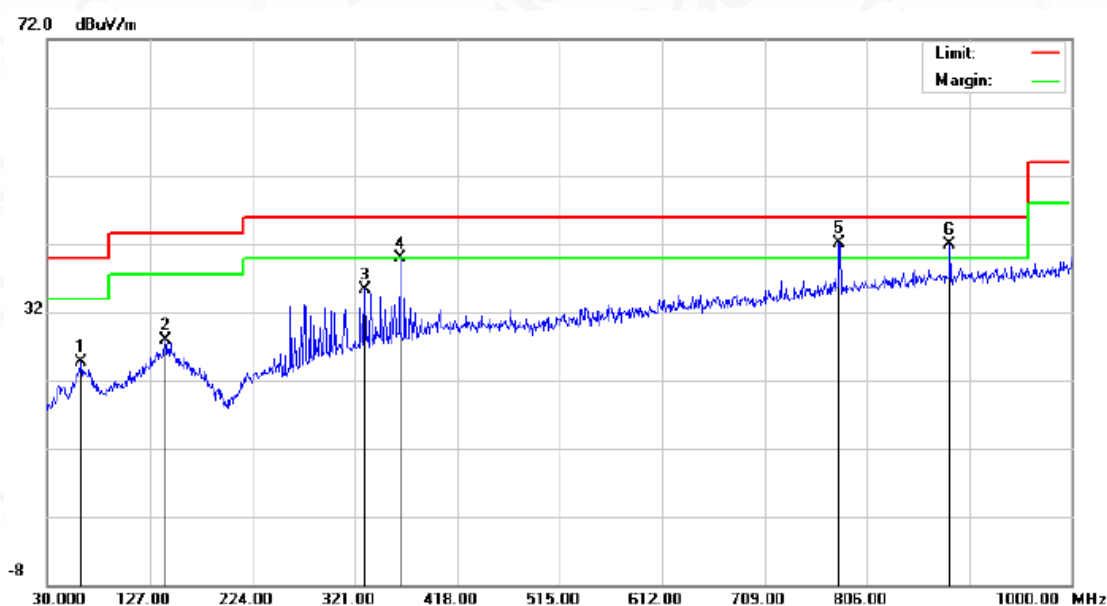
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Adapter 3: TPA-46B050100UU

Radiated emission from 30MHz to 1000MHz

EUT	Smart phone	Model Name	M7
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5180MHz	Antenna	Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		62.0100	6.92	17.72	24.64	40.00	-15.36	peak
2		141.5500	6.80	21.07	27.87	43.50	-15.63	peak
3		330.7000	12.76	22.55	35.31	46.00	-10.69	peak
4		363.6800	16.24	23.71	39.95	46.00	-6.05	peak
5	*	779.8100	12.12	29.95	42.07	46.00	-3.93	peak
6	!	884.5700	10.46	31.50	41.96	46.00	-4.04	peak

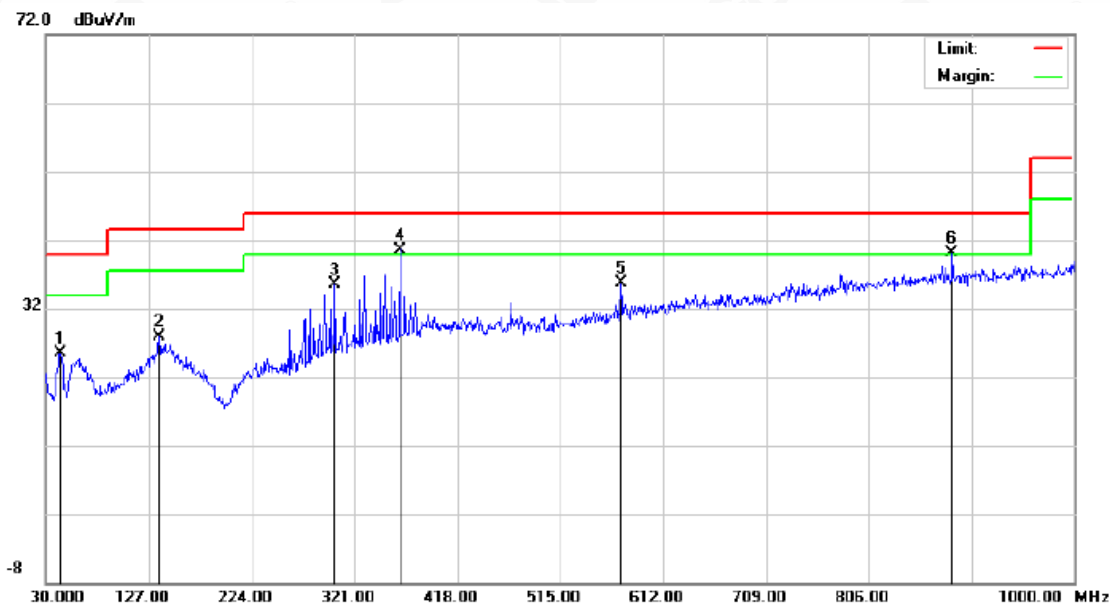
RESULT: PASS

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EUT	Smart phone	Model Name	M7
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5180MHz	Antenna	Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		43.5800	10.88	14.60	25.48	40.00	-14.52	peak
2		136.7000	7.13	20.69	27.82	43.50	-15.68	peak
3		302.5700	14.03	21.56	35.59	46.00	-10.41	peak
4	*	363.6800	16.89	23.71	40.60	46.00	-5.40	peak
5		572.2300	9.28	26.41	35.69	46.00	-10.31	peak
6	!	884.5700	8.62	31.50	40.12	46.00	-5.88	peak

RESULT: PASS

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

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

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

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Radiated emission above 1GHz

EUT	Smart phone	Model Name	M7
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5180MHz	Antenna	Horizontal/Vertical

RADIATED EMISSION ABOVE 1GHZ–Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
10360.042	46.13	9.14	55.27	68.20	-12.93	peak
15540.063	39.88	10.22	50.10	74.00	-23.90	AVG
15540.063	32.03	10.22	42.25	54.00	-11.75	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)	
10360.042	46.28	9.14	55.42	68.20	-12.78	peak
15540.063	41.12	10.22	51.34	74.00	-22.66	AVG
15540.063	31.25	10.22	41.47	54.00	-12.53	peak
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

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EUT	Smart phone	Model Name	M7
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)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
10400.042	46.18	9.14	55.32	68.20	-12.88	peak
15600.063	41.99	10.22	52.21	74.00	-21.79	AVG
15600.063	32.93	10.22	43.15	54.00	-10.85	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)	
10400.042	45.13	9.14	54.27	68.20	-13.93	peak
15600.063	40.22	10.22	50.44	74.00	-23.56	AVG
15600.063	31.16	10.22	41.38	54.00	-12.62	peak
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

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EUT	Smart phone	Model Name	M7
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5240MHz	Antenna	Horizontal/Vertical

RADIATED EMISSION ABOVE 1GHZ–Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
10480.042	48.09	9.27	57.36	68.20	-10.84	peak
15720.063	42.22	10.38	52.60	74.00	-21.40	AVG
15720.063	31.99	10.38	42.37	54.00	-11.63	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)	
10480.042	46.85	9.27	56.12	68.20	-12.08	peak
15720.063	42.03	10.38	52.41	74.00	-21.59	AVG
15720.063	31.66	10.38	42.04	54.00	-11.96	peak

Remark:

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

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EUT	Smart phone	Model Name	M7
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 (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
11490.042	46.28	9.42	55.70	74.00	-18.30	peak
11490.042	38.03	9.42	47.45	54.00	-6.55	AVG
17235.063	39.42	10.51	49.93	68.20	-18.27	peak
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

RADIATED EMISSION ABOVE 1GHZ–Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
11490.042	45.22	9.42	54.64	74.00	-19.36	peak
11490.042	37.25	9.42	46.67	54.00	-7.33	AVG
17235.063	40.25	10.51	50.76	68.20	-17.44	peak
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

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EUT	Smart phone	Model Name	M7
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 (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
11570.042	46.23	9.42	55.65	74.00	-18.35	peak
11570.042	35.12	9.42	44.54	54.00	-9.46	AVG
17355.063	40.39	10.51	50.90	68.20	-17.30	peak

Remark:

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

RADIATED EMISSION ABOVE 1GHZ–Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
11570.042	47.12	9.42	56.54	74.00	-17.46	peak
11570.042	35.03	9.42	44.45	54.00	-9.55	AVG
17355.063	42.89	10.51	53.40	68.20	-14.8	peak

Remark:

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

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EUT	Smart phone	Model Name	M7
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 (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
11650.042	47.81	9.62	57.43	74.00	-16.57	peak
11650.042	38.21	9.62	47.83	54.00	-6.17	AVG
17475.063	43.09	10.53	53.62	68.20	-14.58	peak

Remark:

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

RADIATED EMISSION ABOVE 1GHZ–Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
11650.042	46.39	9.62	56.01	74.00	-17.99	peak
11650.042	36.27	9.62	45.89	54.00	-8.11	AVG
17475.063	41.03	10.75	51.78	68.20	-16.42	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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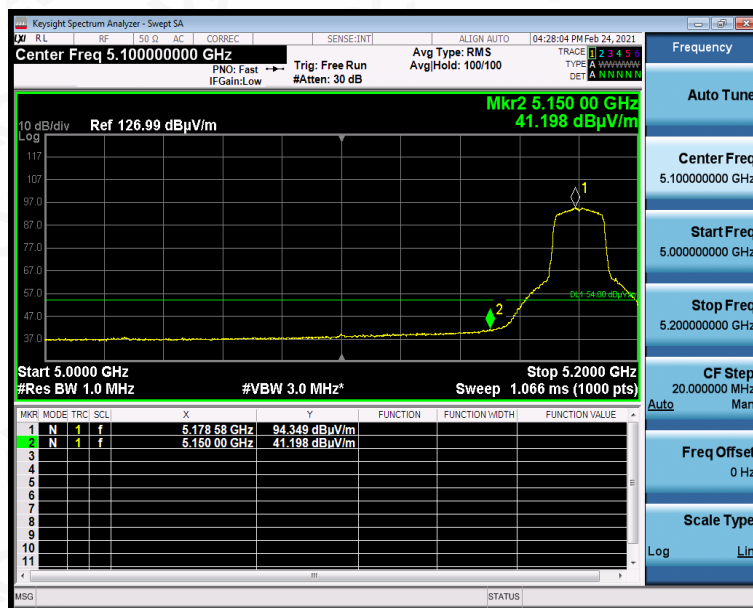
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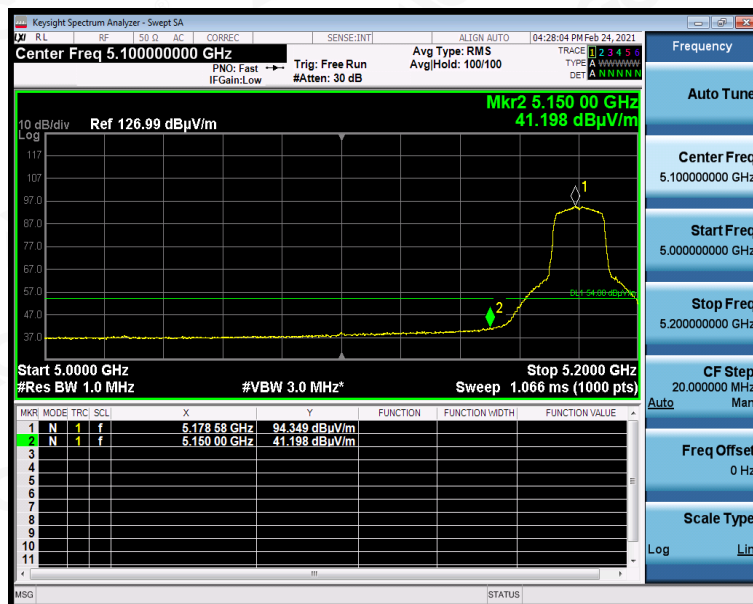
Test result for band edge emission at restricted bands

EUT	Smart phone	Model Name	M7
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5180MHz	Antenna	Horizontal

Test Graph for Peak Measurement



Test Graph for Average Measurement



RESULT: PASS

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