

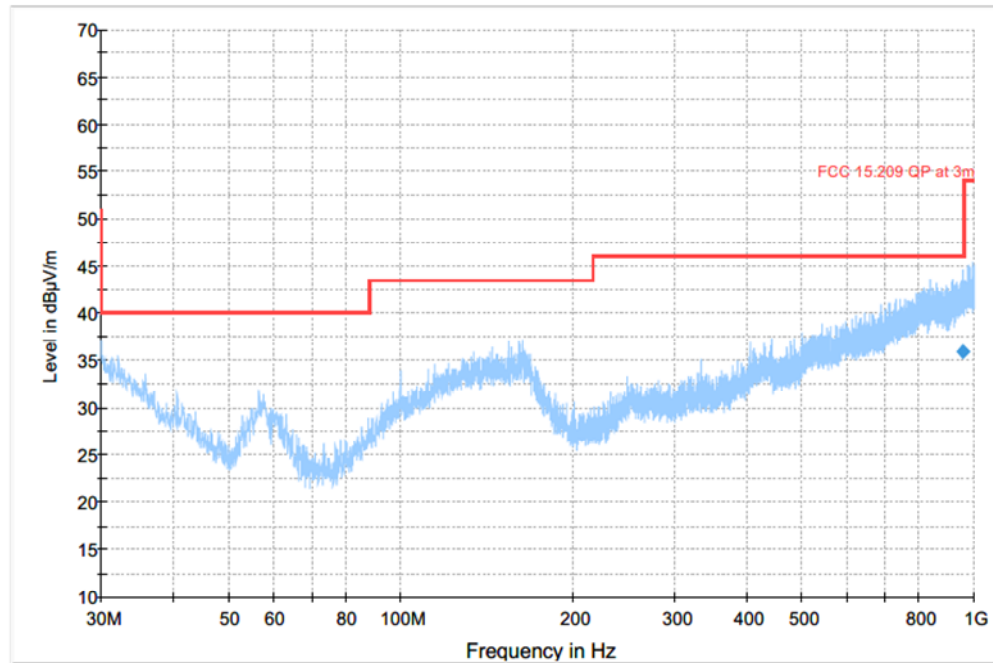
Plot # 23 Radiated Emissions: 30 MHz – 1GHz

Modulation: 802.11n20

Channel: 100

Final Result

Frequency (MHz)	QuasiPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
955.33	35.89	46.02	10.13	500.0	120.0	183.0	V	151.0	32.4



— Preview Result 1-PK+ — FCC 15.209 QP at 3m ◆ Final_Result QPK

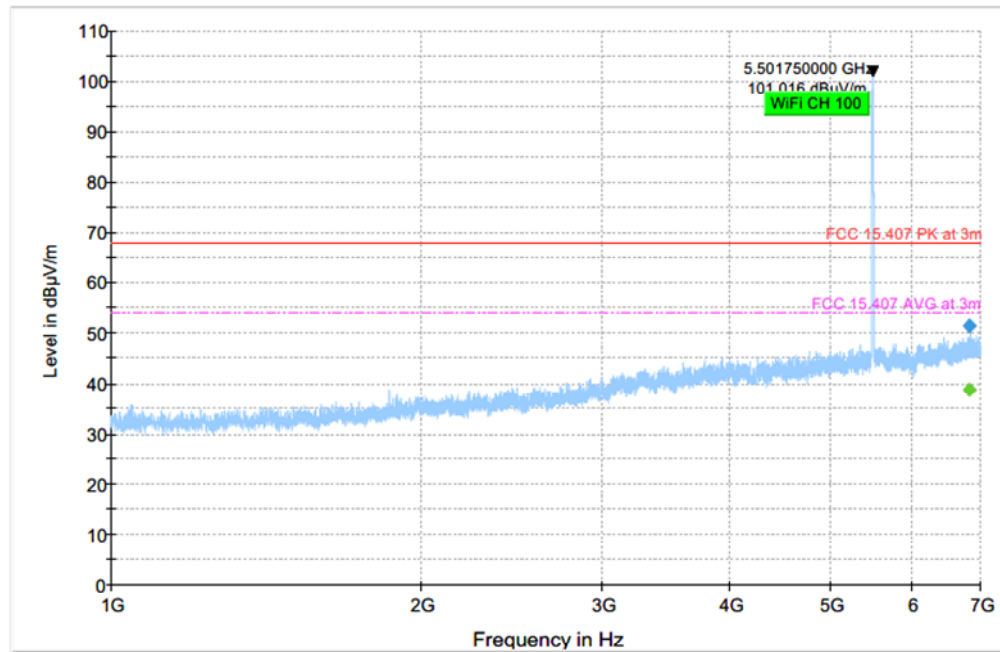
Plot # 24 Radiated Emissions: 1-7 GHz

Modulation: 802.11n20

Channel: 100

Final Result

Frequency (MHz)	MaxPeak (dBuV/m)	CAverage (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
6829.25	---	38.71	53.98	15.27	500.0	1000.0	251.0	H	-45.0	18.7
6829.25	51.39	---	68.00	16.61	500.0	1000.0	251.0	H	-45.0	18.7



Preview Result 1-PK+ Final_Result PK+ FCC 15.407 PK at 3m Final_Result CAV FCC 15.407 AVG at 3m

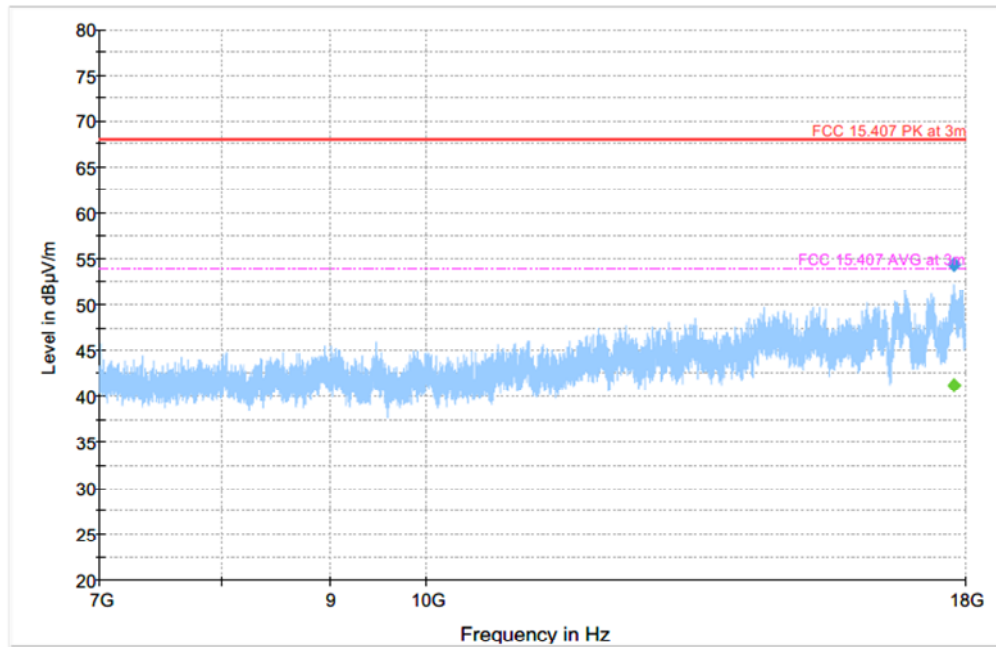
Plot # 25 Radiated Emissions: 7-18 GHz

Modulation: 802.11n20

Channel: 100

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	CAverage (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
17784.40	---	41.24	53.98	12.74	500.0	1000.0	271.0	V	115.0	17.4
17784.40	54.44	---	68.00	13.56	500.0	1000.0	271.0	V	115.0	17.4



◆ Preview Result 1-PK+ Final_Result PK+ ◆ FCC 15.407 PK at 3m Final_Result CAV

◆ FCC 15.407 AVG at 3m

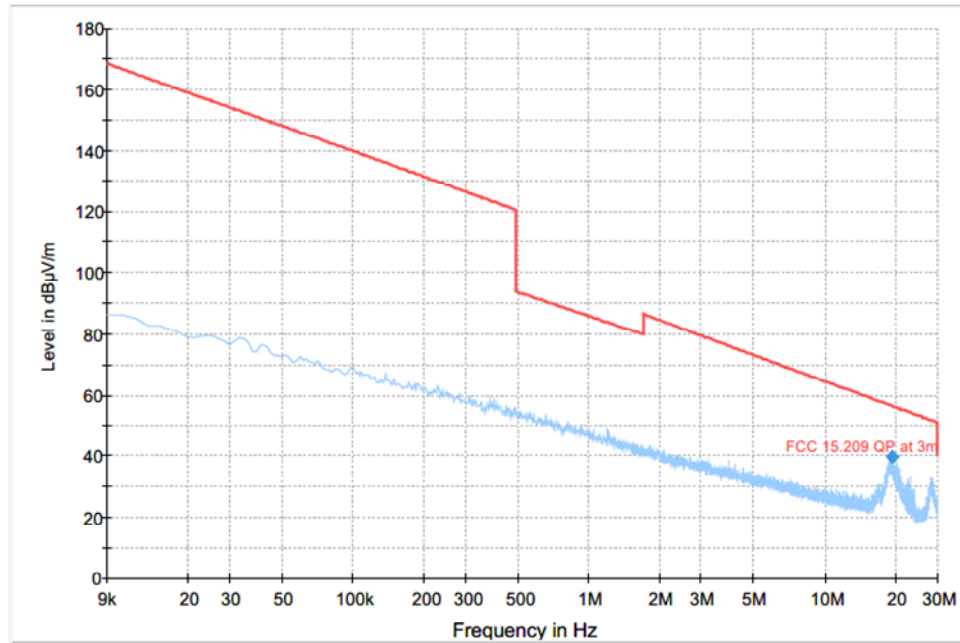
Plot # 26 Radiated Emissions: 9 KHz – 30 MHz

Modulation: 802.11n20

Channel: 120

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
19.23	39.67	---	56.52	16.84	500.0	3.0	100.0	H	262.0	16.5



— Preview Result 1-PK+ — FCC 15.209 QP at 3m ◆ Final_Result PK+ ◆ Final_Result QPK

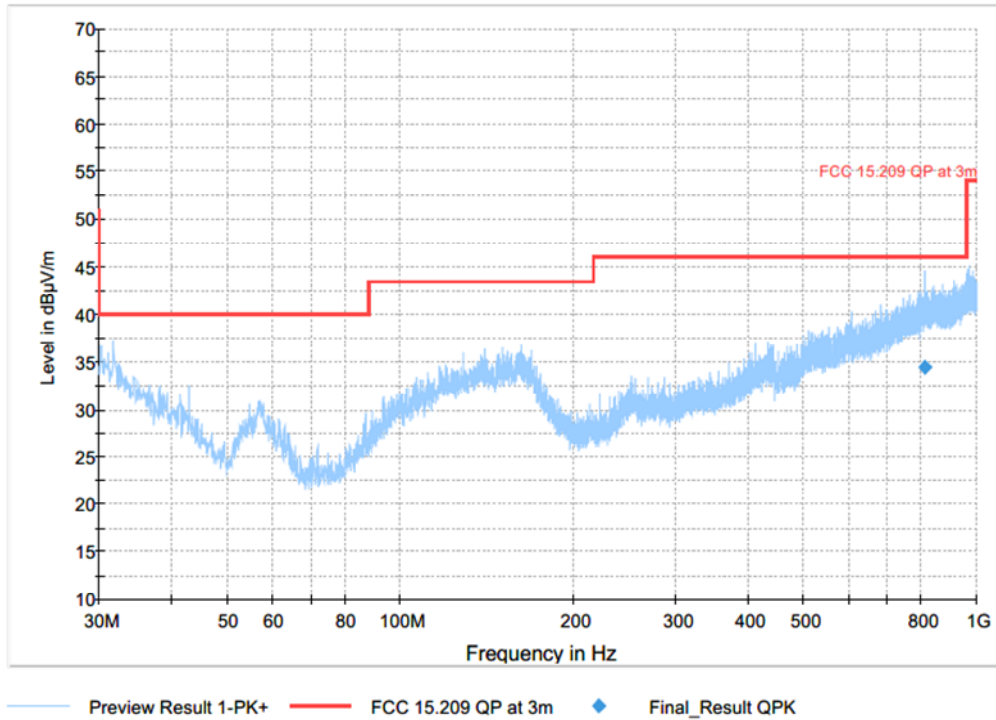
Plot # 27 Radiated Emissions: 30 MHz – 1GHz

Modulation: 802.11n20

Channel: 120

Final Result

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
812.01	34.50	46.02	11.52	500.0	120.0	100.0	H	143.0	31.2



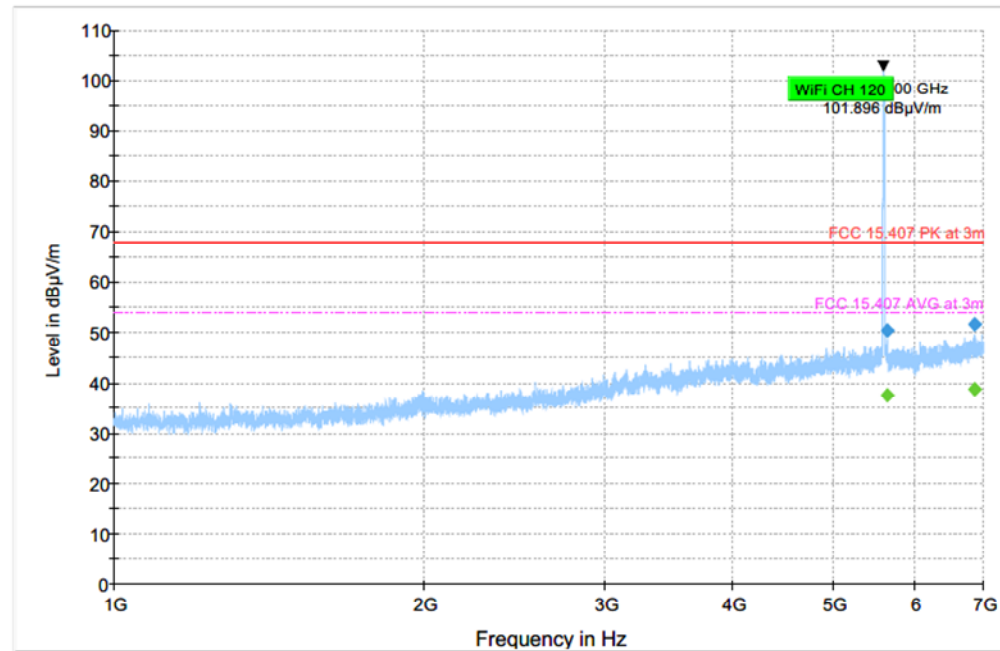
Plot # 28 Radiated Emissions: 1-7 GHz

Modulation: 802.11n20

Channel: 120

Final Result

Frequency (MHz)	MaxPeak (dBuV/m)	CAverage (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5636.75	---	37.47	53.98	16.51	500.0	1000.0	100.0	V	-45.0	16.9
5636.75	50.45	---	68.00	17.55	500.0	1000.0	100.0	V	-45.0	16.9
6861.25	---	38.69	53.98	15.28	500.0	1000.0	198.0	V	300.0	19.0
6861.25	51.50	---	68.00	16.50	500.0	1000.0	198.0	V	300.0	19.0



Preview Result 1-PK+ Final_Result PK+ FCC 15.407 PK at 3m Final_Result CAV FCC 15.407 AVG at 3m

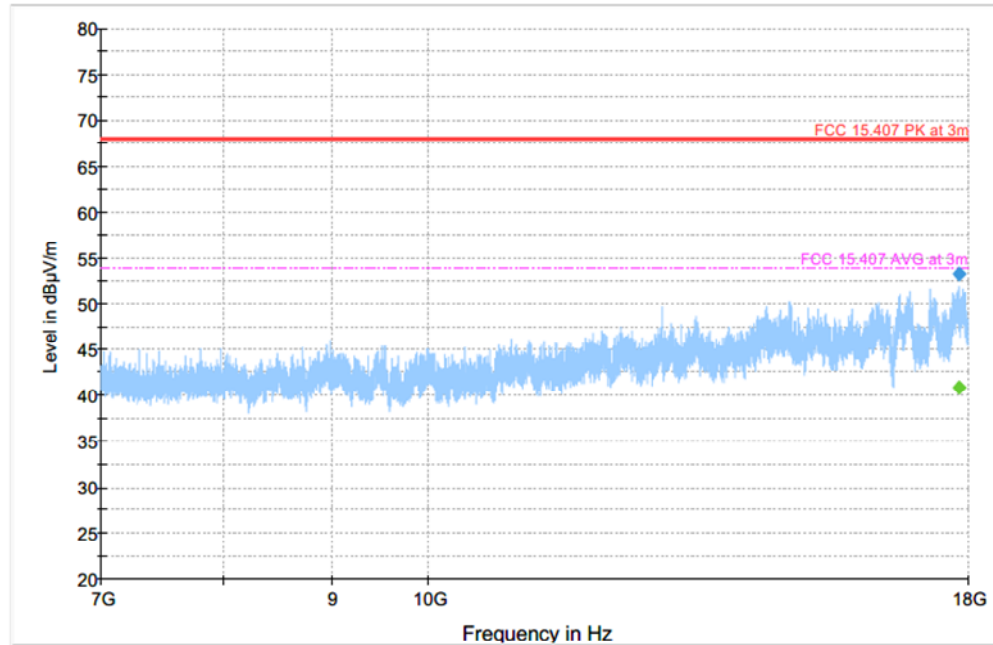
Plot # 29 Radiated Emissions: 7-18 GHz

Modulation: 802.11n20

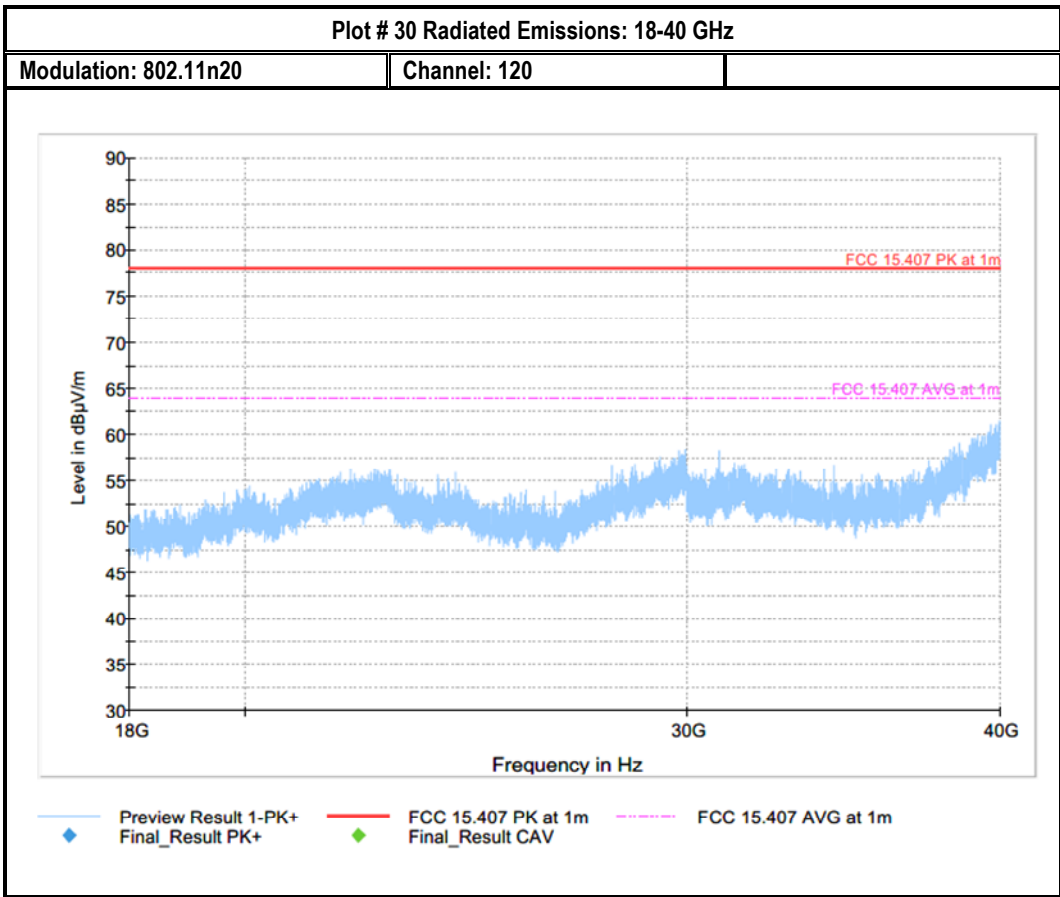
Channel: 120

Final Result

Frequency (MHz)	MaxPeak (dBµV/m)	CAverage (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
17826.69	---	40.90	53.98	13.08	500.0	1000.0	184.0	V	125.0	17.9
17826.69	53.29	---	68.00	14.71	500.0	1000.0	184.0	V	125.0	17.9



Preview Result 1-PK+ Final_Result PK+ FCC 15.407 PK at 3m Final_Result CAV FCC 15.407 AVG at 3m



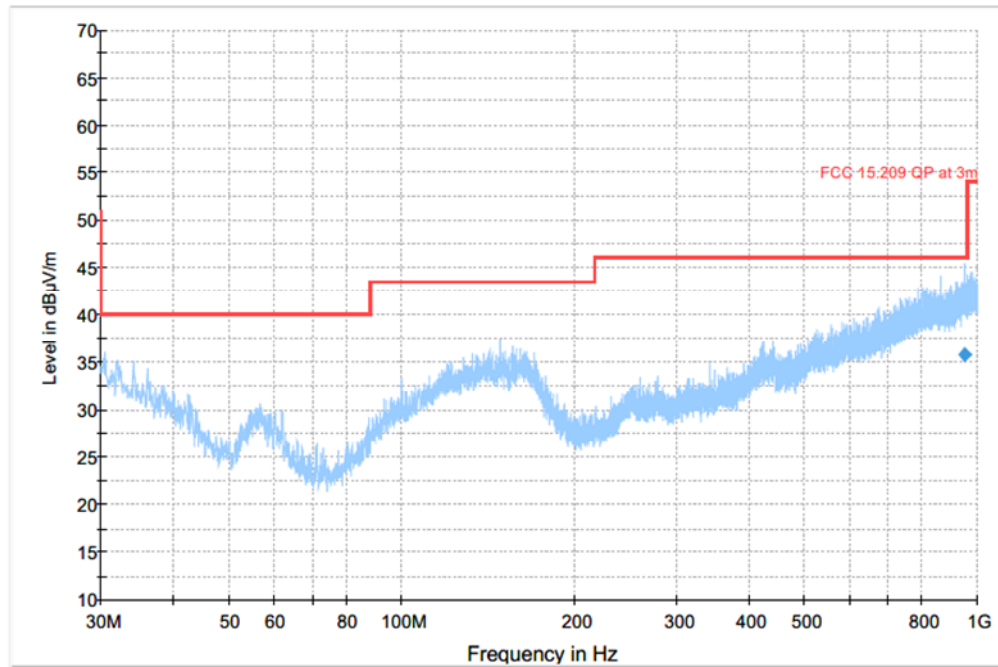
Plot # 31 Radiated Emissions: 30 MHz – 1GHz

Modulation: 802.11n20

Channel: 140

Final Result

Frequency (MHz)	QuasiPeak (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
951.06	35.80	46.02	10.22	500.0	120.0	269.0	H	-11.0	32.2



— Preview Result 1-PK+ — FCC 15.209 QP at 3m ◆ Final_Result QPK

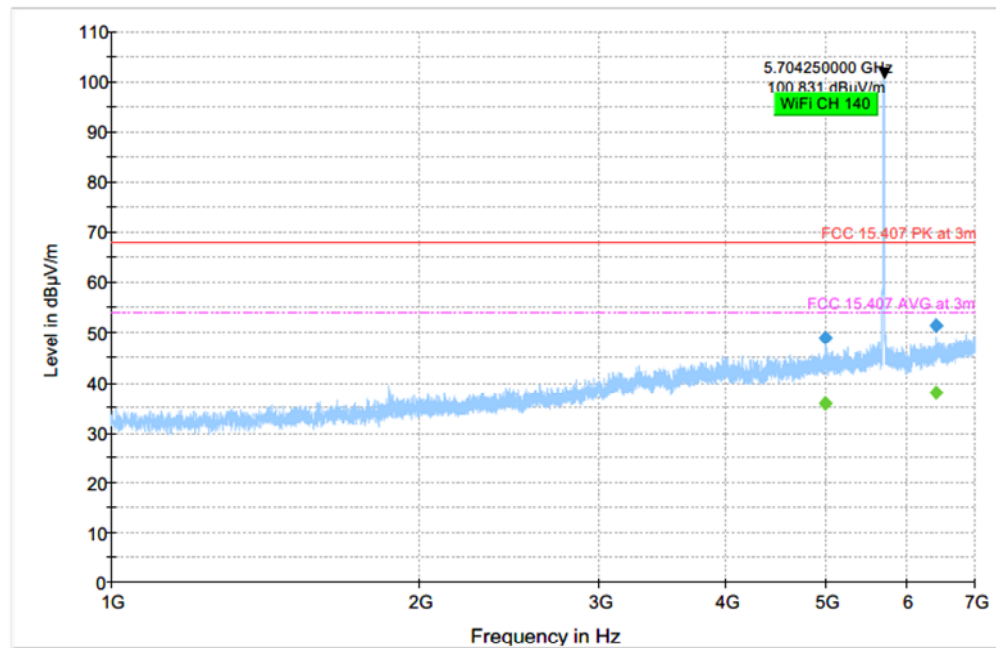
Plot # 32 Radiated Emissions: 1-7 GHz

Modulation: 802.11n20

Channel: 140

Final Result

Frequency (MHz)	MaxPeak (dBuV/m)	CAverage (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4991.50	---	35.83	53.98	18.15	500.0	1000.0	275.0	V	309.0	14.8
4991.50	48.84	---	68.00	19.16	500.0	1000.0	275.0	V	309.0	14.8
6420.50	---	37.95	53.98	16.03	500.0	1000.0	261.0	V	322.0	18.3
6420.50	51.41	---	68.00	16.59	500.0	1000.0	261.0	V	322.0	18.3



Preview Result 1-PK+ Final_Result PK+ FCC 15.407 PK at 3m Final_Result CAV FCC 15.407 AVG at 3m

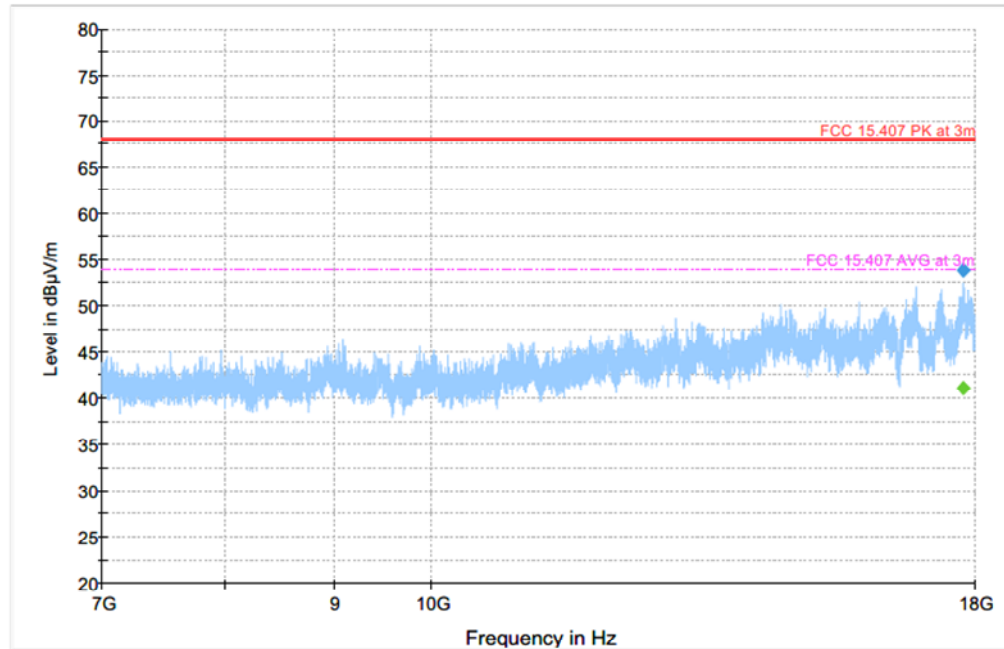
Plot # 33 Radiated Emissions: 7-18 GHz

Modulation: 802.11n20

Channel: 140

Final Result

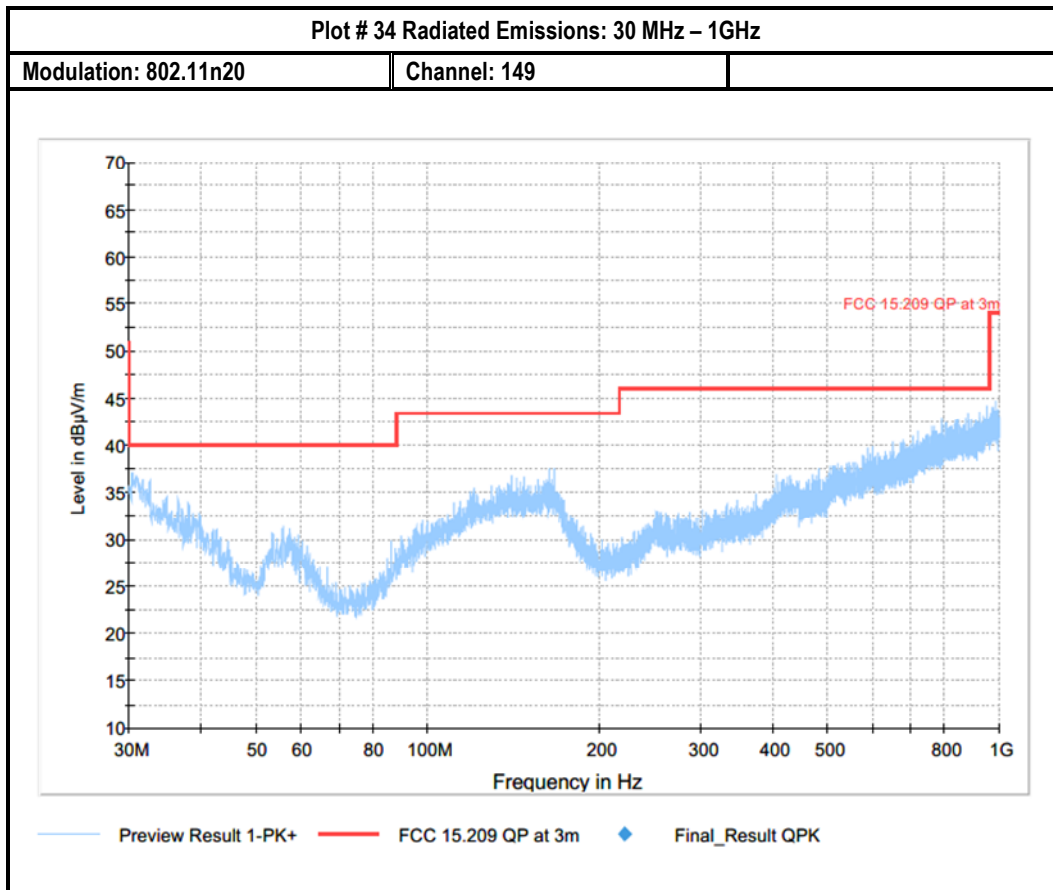
Frequency (MHz)	MaxPeak (dBμV/m)	CAverage (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
17780.73	---	41.14	53.98	12.84	500.0	1000.0	251.0	V	305.0	17.3
17780.73	53.85	---	68.00	14.15	500.0	1000.0	251.0	V	305.0	17.3



Preview Result 1-PK+
Final_Result PK+

FCC 15.407 PK at 3m
Final_Result CAV

FCC 15.407 AVG at 3m



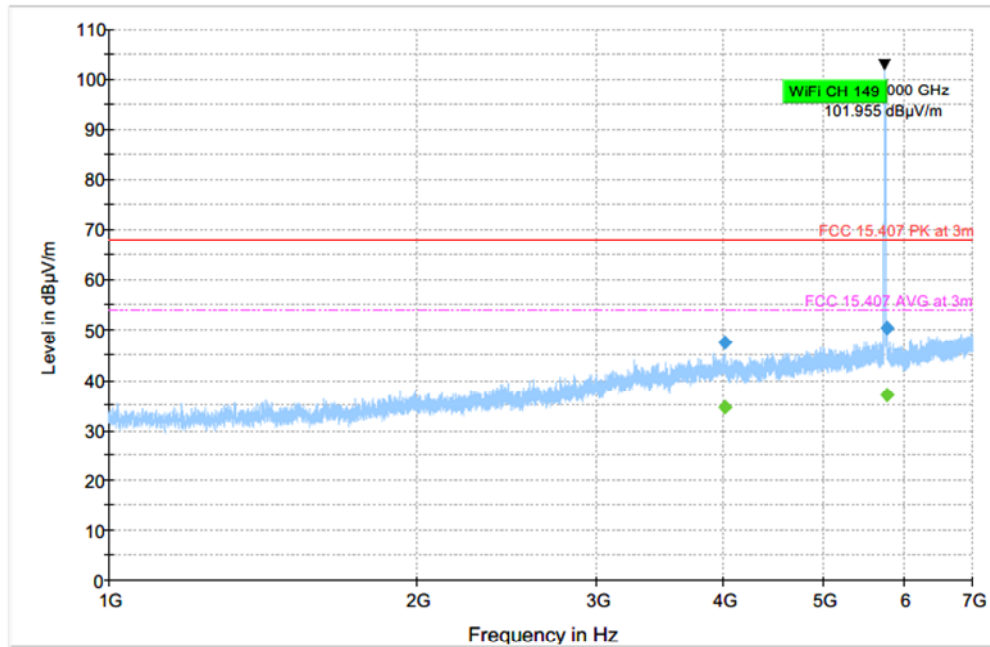
Plot # 35 Radiated Emissions: 1-7 GHz

Modulation: 802.11n20

Channel: 149

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	CAverage (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Poi	Azimuth (deg)	Corr. (dB/m)
4002.25	47.47	---	68.00	20.53	500.0	1000.0	168.0	H	147.0	13.6
4002.25	---	34.63	53.98	19.35	500.0	1000.0	168.0	H	147.0	13.6
5781.25	50.26	---	68.00	17.74	500.0	1000.0	125.0	H	-40.0	16.3
5781.25	---	37.04	53.98	16.94	500.0	1000.0	125.0	H	-40.0	16.3

◆ Preview Result 1-PK+
Final_Result PK+◆ FCC 15.407 PK at 3m
Final_Result CAV

----- FCC 15.407 AVG at 3m

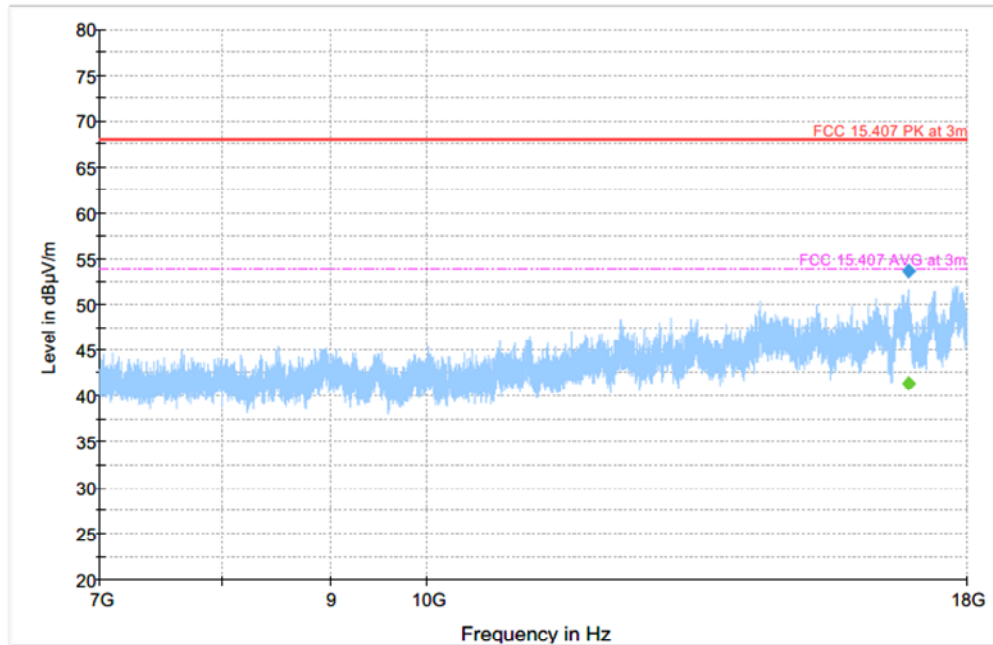
Plot # 36 Radiated Emissions: 7-18 GHz

Modulation: 802.11n20

Channel: 149

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	CAverage (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
16902.69	---	41.34	53.98	12.64	500.0	1000.0	275.0	V	64.0	14.2
16902.69	53.70	---	68.00	14.30	500.0	1000.0	275.0	V	64.0	14.2



Preview Result 1-PK+ Final_Result PK+ FCC 15.407 PK at 3m Final_Result CAV FCC 15.407 AVG at 3m

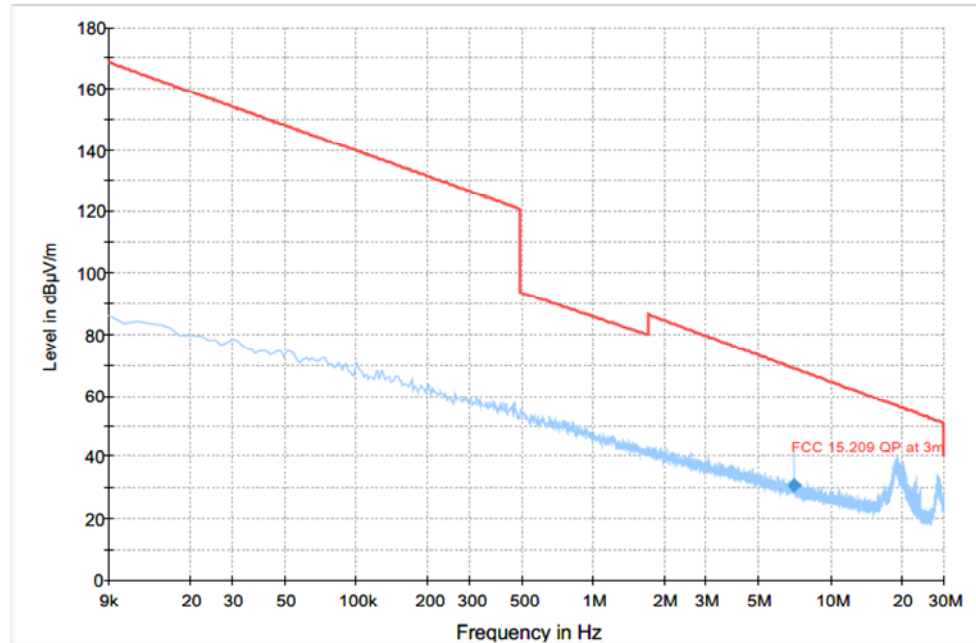
Plot # 37 Radiated Emissions: 9 KHz – 30 MHz

Modulation: 802.11n20

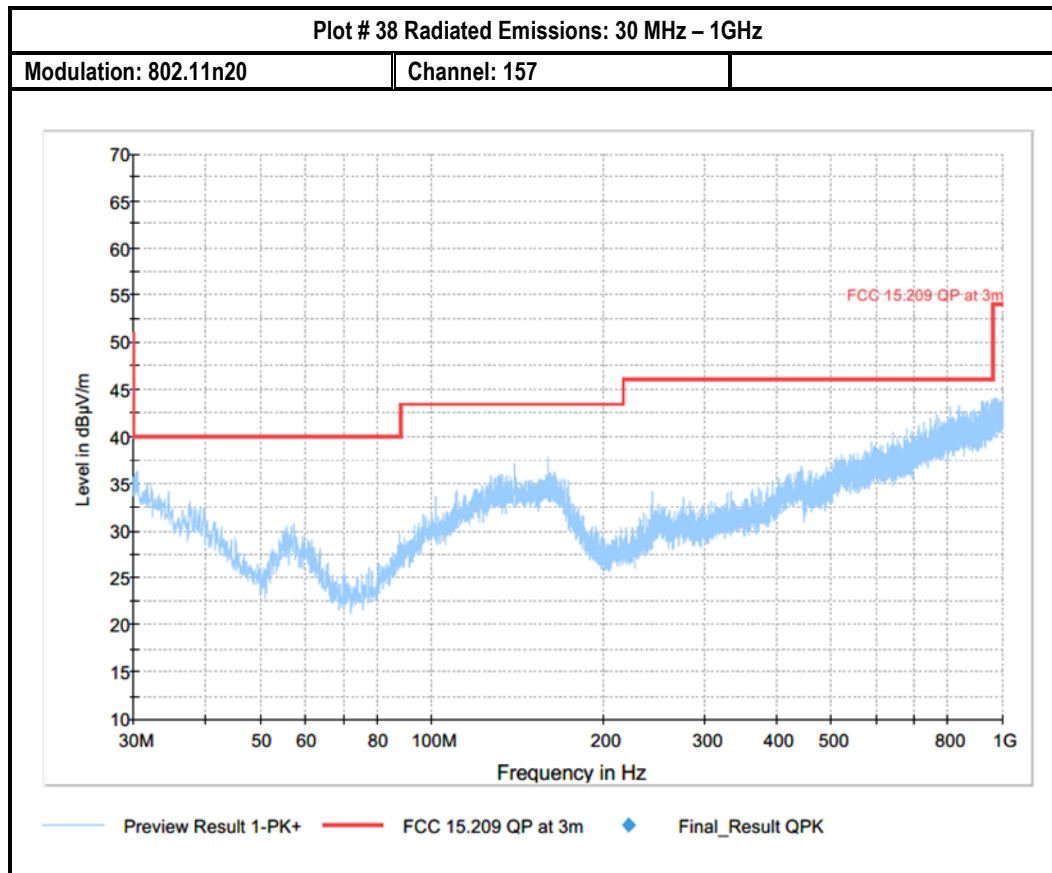
Channel: 157

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7.01	30.92	---	68.94	38.02	500.0	3.0	167.0	H	35.0	17.5



— Preview Result 1-PK+ — FCC 15.209 QP at 3m ◆ Final_Result PK+ ◆ Final_Result QPK



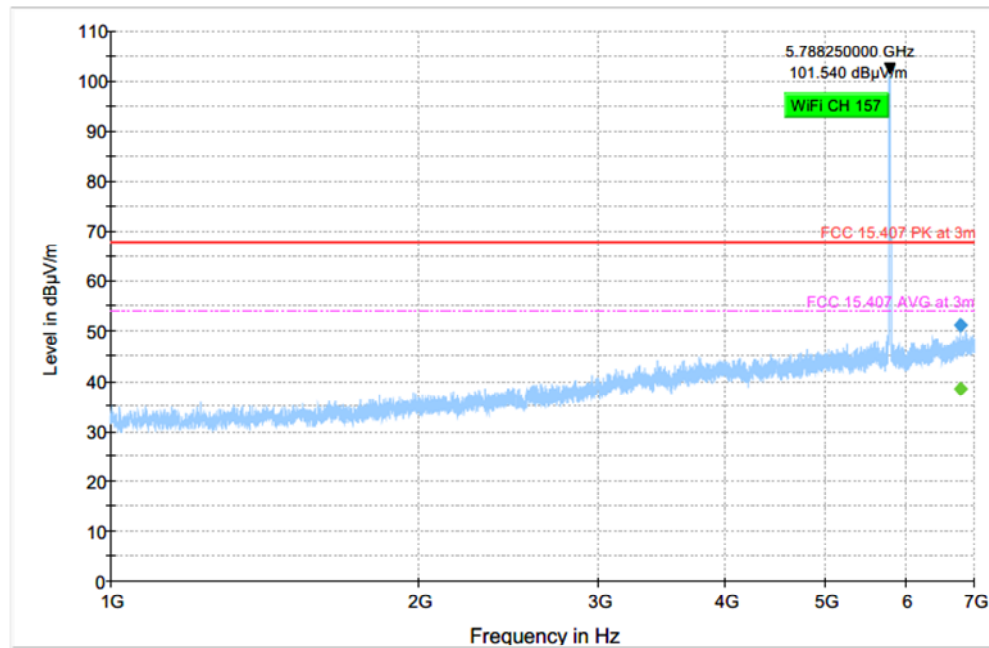
Plot # 39 Radiated Emissions: 1-7 GHz

Modulation: 802.11n20

Channel: 157

Final Result

Frequency (MHz)	MaxPeak (dBuV/m)	CAverage (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
6793.75	---	38.39	53.98	15.59	500.0	1000.0	172.0	H	99.0	18.3
6793.75	51.01	---	68.00	16.99	500.0	1000.0	172.0	H	99.0	18.3



Preview Result 1-PK+ Final_Result PK+ FCC 15.407 PK at 3m Final_Result CAV FCC 15.407 AVG at 3m

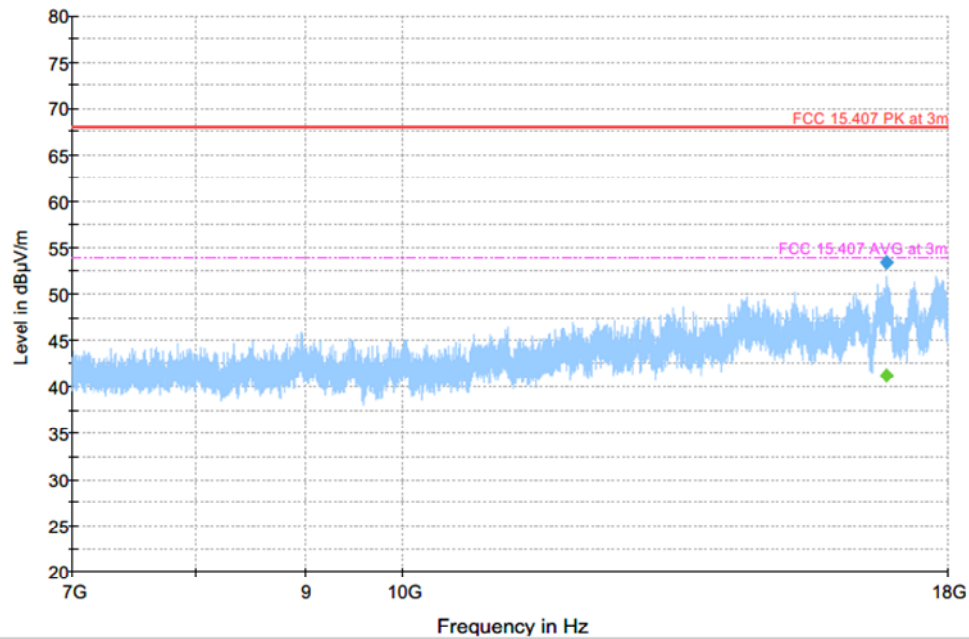
Plot # 40 Radiated Emissions: 7-18 GHz

Modulation: 802.11n20

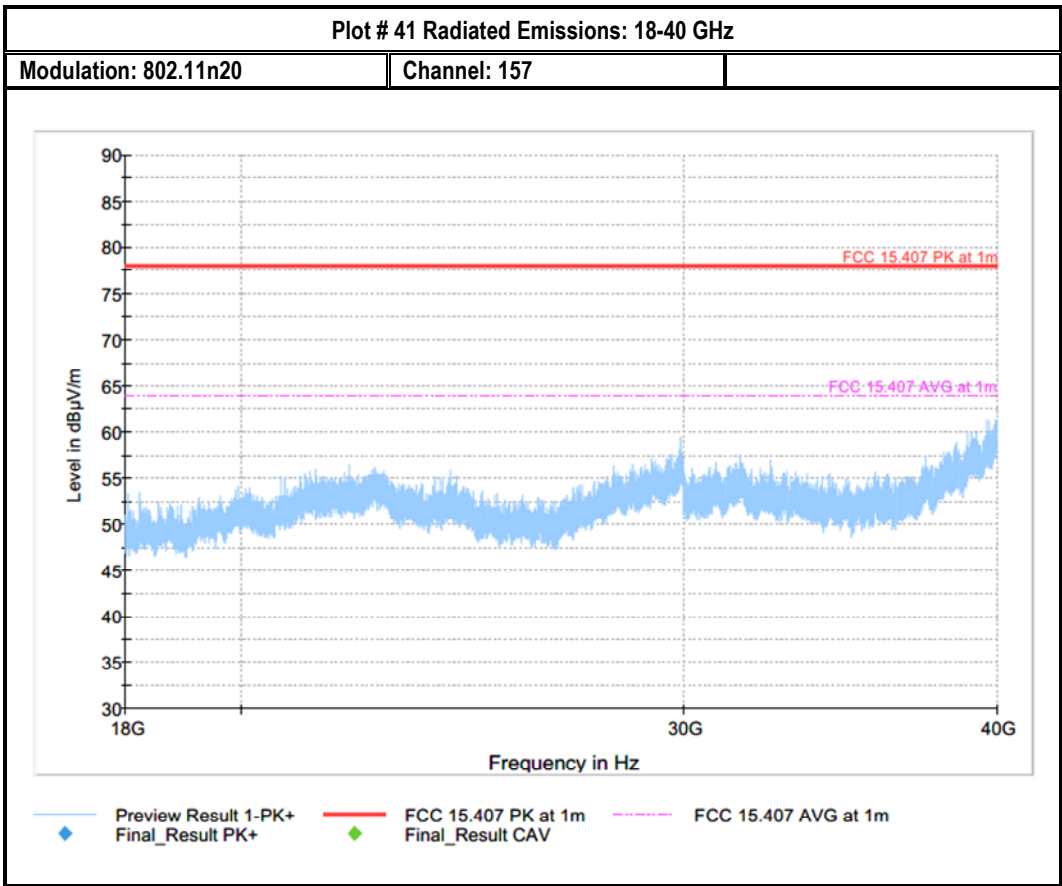
Channel: 157

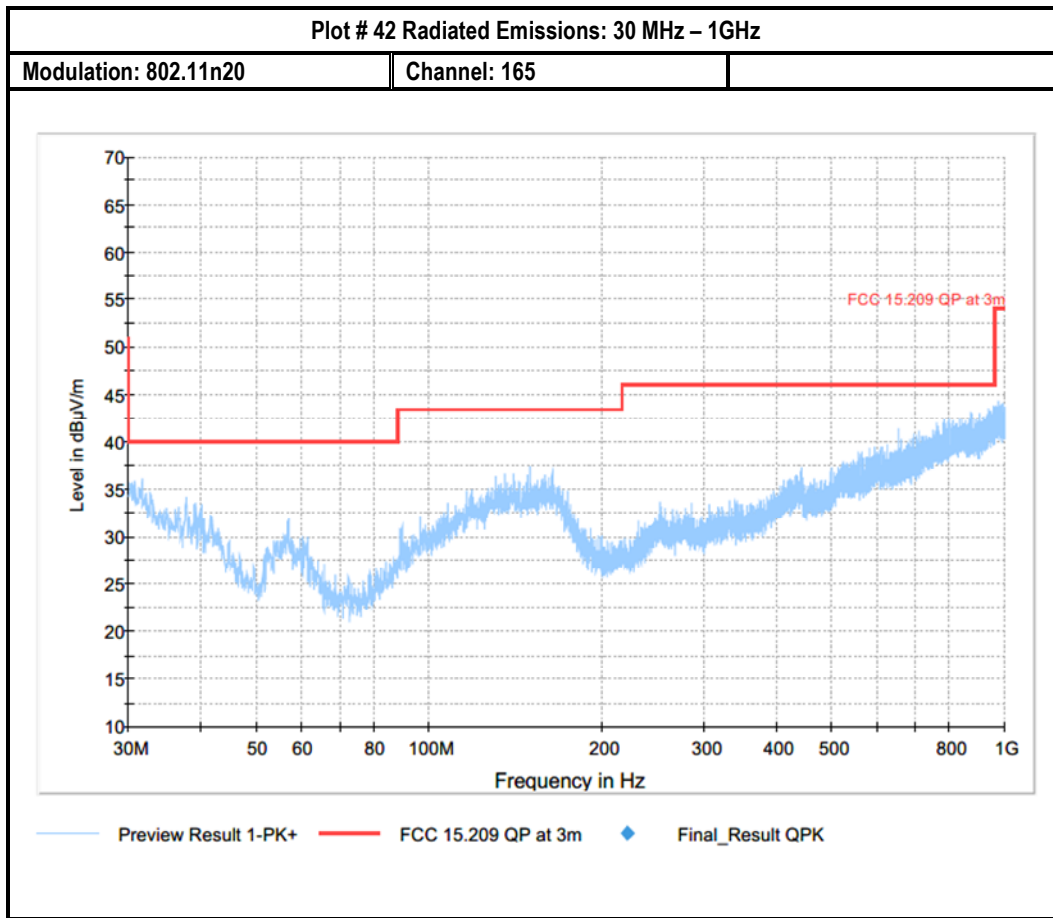
Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	CAverage (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
16863.58	---	41.30	53.98	12.68	500.0	1000.0	275.0	V	39.0	14.3
16863.58	53.44	---	68.00	14.56	500.0	1000.0	275.0	V	39.0	14.3



Preview Result 1-PK+ Final_Result PK+ FCC 15.407 PK at 3m Final_Result CAV FCC 15.407 AVG at 3m





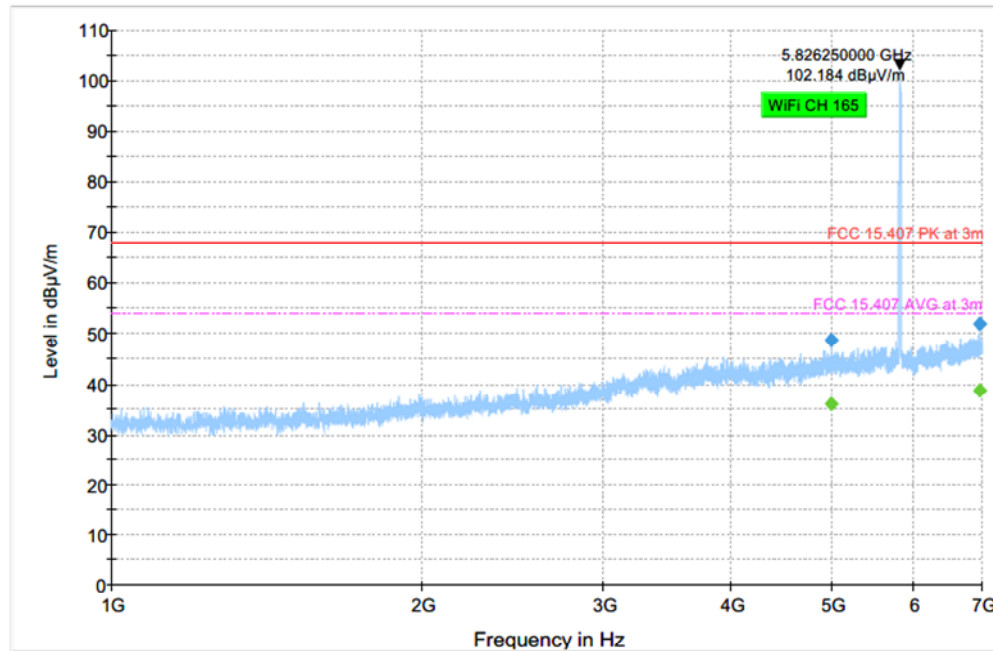
Plot # 43 Radiated Emissions: 1-7 GHz

Modulation: 802.11n20

Channel: 165

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	CAverage (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4999.25	---	35.94	53.98	18.04	500.0	1000.0	100.0	H	100.0	14.9
4999.25	48.61	---	68.00	19.39	500.0	1000.0	100.0	H	100.0	14.9
6961.25	---	38.75	53.98	15.23	500.0	1000.0	151.0	H	359.0	19.4
6961.25	51.81	---	68.00	16.19	500.0	1000.0	151.0	H	359.0	19.4



◆ Preview Result 1-PK+ Final_Result PK+ ◆ FCC 15.407 PK at 3m Final_Result CAV --- FCC 15.407 AVG at 3m

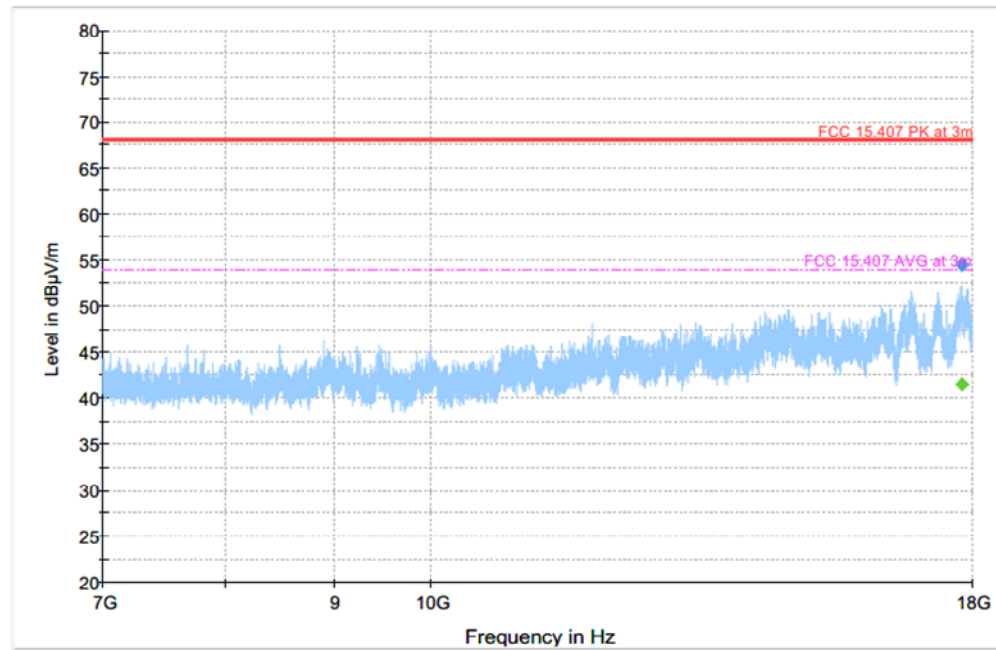
Plot # 44 Radiated Emissions: 7-18 GHz

Modulation: 802.11n20

Channel: 165

Final Result

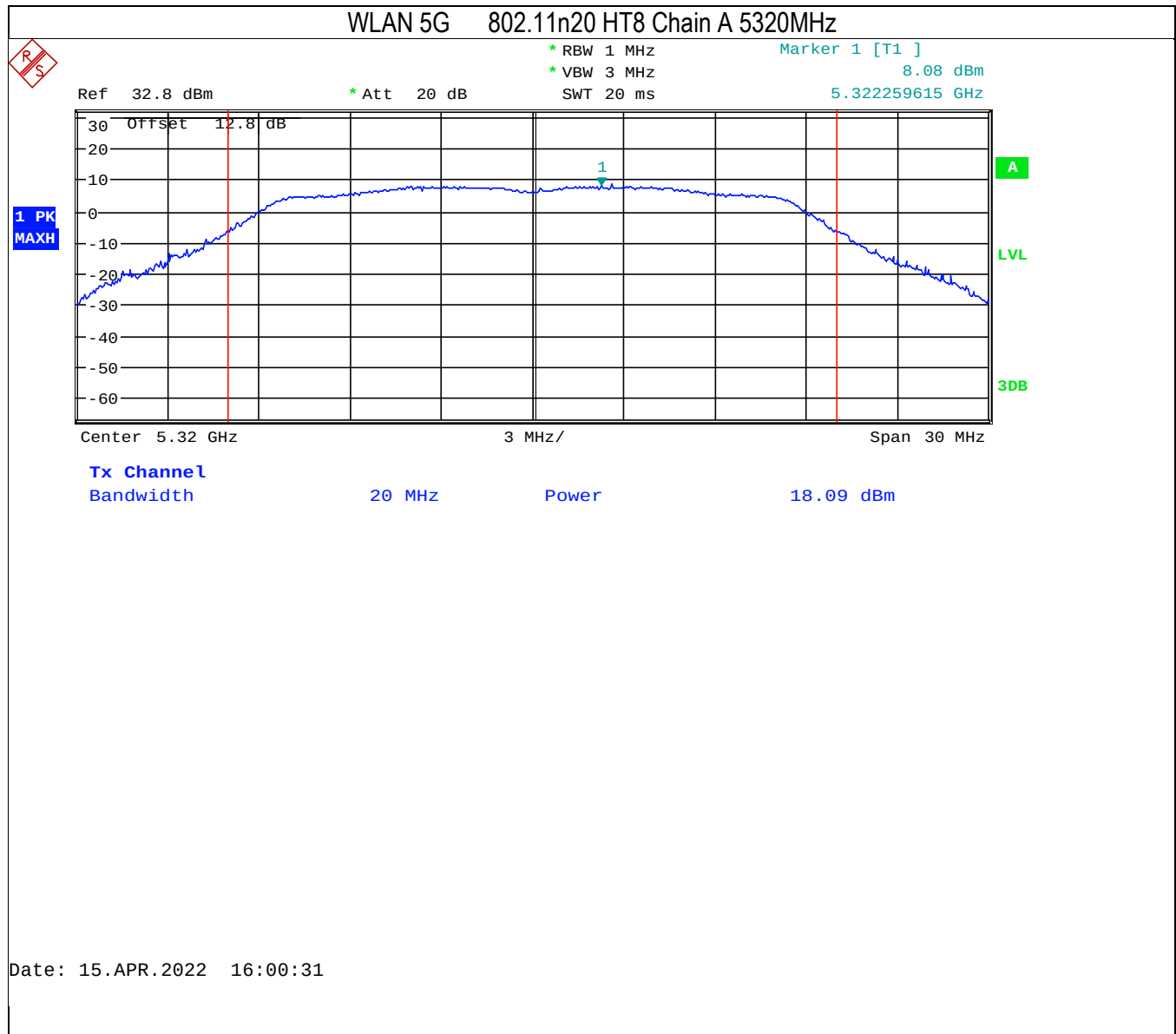
Frequency (MHz)	MaxPeak (dBμV/m)	CAverage (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
17792.71	---	41.46	53.98	12.52	500.0	1000.0	235.0	V	136.0	17.6
17792.71	54.49	---	68.00	13.51	500.0	1000.0	235.0	V	136.0	17.6



◆ Preview Result 1-PK+ Final_Result PK+ ◆ FCC 15.407 PK at 3m Final_Result CAV

◆ FCC 15.407 AVG at 3m

8.2 Power Verification



WLAN 5G 802.11n20 HT8 Chain B 5320MHz



* RBW 1 MHz

Marker 1 [T1]

* VBW 3 MHz

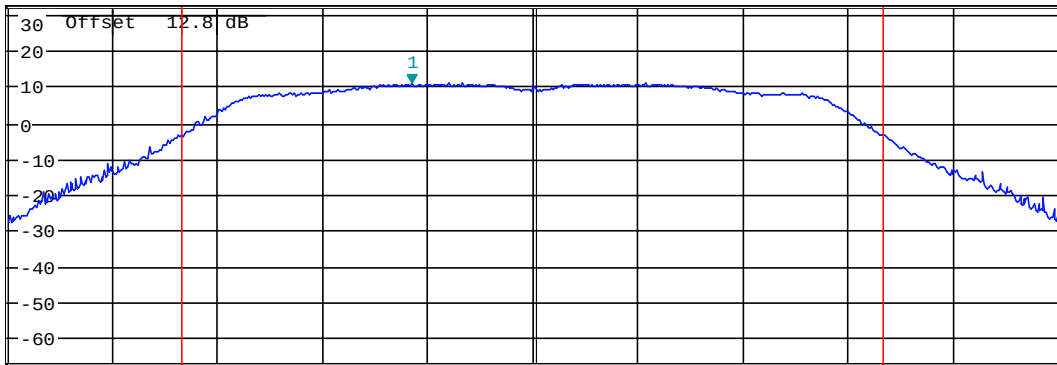
11.03 dBm

SWT 20 ms

5.316538462 GHz

Ref 32.8 dBm

* Att 20 dB



Center 5.32 GHz

3 MHz/

Span 30 MHz

Tx Channel

Bandwidth

20 MHz

Power

21.15 dBm

Date: 15.APR.2022 15:59:20

9 Test setup photos

Setup photos are included in supporting file name: "EMC_JUNIP-042-22001_FCC_Setup_Photos"

10 Test Equipment And Ancillaries Used For Testing

Equipment Type	Manufacturer	Model	Serial #	Calibration Cycle	Last Calibration Date
ACTIVE LOOP ANTENNA	ETS LINDGREN	6507	00161344	2 YEARS	10/30/2020
BILOG ANTENNA	ETS.LINDGREN	3142E	00166067	2 YEARS	10/21/2021
HORN ANTENNA	EMCO	3115	00035114	2 YEARS	08/10/2020
HORN ANTENNA	ETS.LINDGREN	3117	00215984	2 YEARS	01/31/2021
HORN ANTENNA	ETS.LINDGREN	3116	00070497	2 YEARS	11/23/2020
TEST RECEIVER	R&S	ESU40	100251	2 YEARS	09/13/2021
DIGITAL THRMOMETER	CONTROL COMPANY	36934-164	181230565	3 YEARS	10/20/2021

Note: Equipment used meets the measurement uncertainty requirements as required per applicable standards for 95% confidence levels. Calibration due dates, unless defined specifically, falls on the last day of the month. Items indicated "N/A" for cal status either do not specifically require calibration or is internally characterized before use.

11 History

Date	Report Name	Changes to report	Prepared by
2022-05-31	EMC_JUNIP-042-22001_FCC_15.407_UNII	Initial Version	Cheng Song

<<< The End >>>