



RF TEST REPORT

Applicant Alcatel-Lucent Shanghai Bell Co.,Ltd.
FCC ID 2ADZRG240WZA
Brand NOKIA
Product Digital Home ONU
Model G-240WZ-A
Report No. YBA1604-0033RF06R3
Issue Date July 1, 2016

TA Technology (Shanghai) Co., Ltd. tested the above equipment in accordance with the requirements in **FCC CFR47 Part 15E (2015)**. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

Performed by: Lingling Kang

Approved by: Kai Xu



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国际互认
检测
TESTING
CNAS L2264

TA Technology (Shanghai) Co., Ltd.

No.145, Jintang Rd, Tangzhen Industry Park, Pudong Shanghai, China

TEL: +86-021-50791141/2/3

FAX: +86-021-50791141/2/3-8000



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Summary of measurement results

Number	Summary of measurements of results	Clause in FCC rules	Verdict
1	Maximum peak conducted output power	15.407(a)	PASS
2	Occupied bandwidth	15.407(e)	PASS
3	Frequency stability	15.407(g)	PASS
4	Maximum power spectral density	15.407(a)	PASS
5	Unwanted Emissions	15.407(b)	PASS
6	Conducted Emissions	15.207	PASS
Date of Testing: April 15, 2016~ May 6, 2016			



1. Test Laboratory

1.1. Notes of the test report

This report shall not be reproduced in full or partial, without the written approval of TA technology (shanghai) co., Ltd).The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein .Measurement Uncertainties were not taken into account and are published for informational purposes only. This report is written to support regulatory compliance of the applicable standards stated above. This report must not be used by the client to claim product certification, approval, or endorsement by CNAS or any government agencies.

1.2. Test facility

CNAS (accreditation number:L2264)

TA Technology (Shanghai) Co., Ltd. has obtained the accreditation of China National Accreditation Service for Conformity Assessment (CNAS).

FCC (recognition number is 428261)

TA Technology (Shanghai) Co., Ltd. has been listed on the US Federal Communications Commission list of test facilities recognized to perform electromagnetic emissions measurements.

IC (recognition number is 8510A)

TA Technology (Shanghai) Co., Ltd. has been listed by industry Canada to perform electromagnetic emission measurement.

VCCI (recognition number is C-4595, T-2154, R-4113, G-766)

TA Technology (Shanghai) Co., Ltd. has been listed by industry Japan to perform electromagnetic emission measurement.

A2LA (Certificate Number: 3857.01)

TA Technology (Shanghai) Co., Ltd. has been listed by American Association for Laboratory Accreditation to perform electromagnetic emission measurement.



1.3. Testing Location

Company: TA Technology (Shanghai) Co., Ltd.
Address: No.145, Jintang Rd, Tangzhen Industry Park, Pudong
City: Shanghai
Post code: 201201
Country: P. R. China
Contact: Xu Kai
Telephone: +86-021-50791141/2/3
Fax: +86-021-50791141/2/3-8000
Website: <http://www.ta-shanghai.com>
E-mail: xukai@ta-shanghai.com

2. General Description of Equipment under Test

Client Information

Applicant	Alcatel-Lucent Shanghai Bell Co.,Ltd.
Applicant address	388-389#,Ningqiao Road,Pudong Jinqiao, Shanghai CHINA
Manufacturer	Taicang T&W Electronics Co.,Ltd
Manufacturer address	Jiangnan Road 89,Ludu Town Taicang CHINA

General information

EUT Description	
Model:	G-240WZ-A
SN:	/
Hardware Version:	PEM 1+
Software Version:	3FE45890FFEB38
Power Supply:	AC Power Supply
Antenna Type:	External Antennas
Antenna Gain:	Antenna 1: 4.69 dBi Antenna 2: 4.00 dBi Antenna 3: 4.00 dBi Antenna 4: 4.44 dBi
Directional Gain	4.69dBi
Beamforming Gain	1.5dB
Test Mode:	U-NII-1(5150MHz-5250MHz) U-NII-3(5725MHz-5850MHz)
Modulation Type:	802.11a/n HT20/n HT40/ac HT20/ac HT40/ ac HT80: OFDM
Max. Conducted Power	MIMO 802.11n HT40: 19.85 dBm
Operating Frequency Range(s)	U-NII-1: 5150-5250MHz U-NII-3: 5725MHz-5850MHz
EUT Accessory	
Adapter	Manufacture: DONGGUAN SHILONG FUHUA ELECTRONIC CO., LTD. Model : UES36-120300SPA1 Input:100~240V AC 50/60Hz Output:12VDC 3.0A
<p>Note: The information of the EUT is declared by the manufacturer. Please refer to the specifications or user manual for details. Manufacturer declared that only single TX under single rate and MIMO TX with Nss=4 are supported by the EUT.</p>	



3. Test Information

According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

FCC CFR47 Part 15E (2015) Unlicensed National Information Infrastructure Devices

ANSI C63.10 (2013)

KDB 789033 D02 General UNII Test Procedures New Rules v01r02

KDB 662911 D01 Multiple Transmitter Output v02r01

KDB 644545 D03 Guidance for IEEE 802.11 ac v01

4. Test Configuration

Test Mode

The EUT was programmed to be in continuously transmitting mode and the transmit duty cycle is not less than 98%.

The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application.

The radiated emission was measured in the following position: EUT stand-up position (Z axis), lie-down position (X, Y axis). The worst emission was found in stand-up position (Z axis) and the worst case was recorded.

In order to find the worst case condition, Pre-tests are needed at the presence of different data rate. Preliminary tests have been done on the all configuration for confirming worst case. Data rate below means worst-case rate of each test item.

Worst-case data rates are shown as following table.

Band		Data Rate				
		Antenna 1	Antenna 2	Antenna 3	Antenna 4	MIMO
802.11a	U-NII-1	6 Mbps	6 Mbps	6 Mbps	6 Mbps	--
	U-NII-3	54 Mbps	54 Mbps	54 Mbps	54 Mbps	--
802.11n HT20/ 802.11ac HT20	U-NII-1	MCS0	MCS0	MCS0	MCS0	MCS8/MCS11
	U-NII-3	MCS0	MCS0	MCS0	MCS0	MCS8/MCS11
802.11n HT40 802.11ac HT40	U-NII-1	MCS0	MCS0	MCS0	MCS0	MCS8/MCS11
	U-NII-3	MCS0	MCS0	MCS0	MCS0	MCS8/MCS11
802.11ac HT80	U-NII-1	MCS0	MCS0	MCS0	MCS0	MCS11
	U-NII-3	MCS0	MCS0	MCS0	MCS0	MCS11



The EUT is 4x4 MIMO antennas,

The worst case Antenna mode for each of the following tests for Wi-Fi:

Test Cases	Antenna 1	Antenna 2	Antenna 3	Antenna 4	MIMO
peak conducted output power	O	O	O	O	802.11n/ac HT20/ 802.11n/ac HT40/ 802.11ac HT80
Occupied bandwidth	O	-	-	-	-
Frequency Stability	O	-	-	-	-
power spectral density	O	-	-	-	802.11n/ac HT20/ 802.11n/ac HT40/ 802.11ac HT80
Unwanted Emissions	O	-	-	-	-
Conducted Emissions	O	-	-	-	-
Note: "O": test all bands					

5. Test Case Results

5.1. Peak Power Output –Conducted

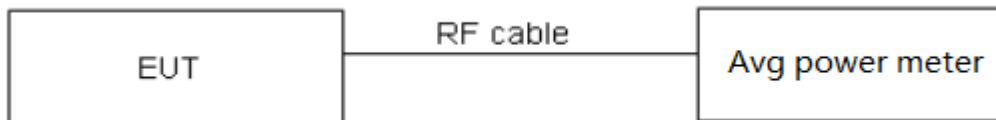
Ambient condition

Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.5kPa

Methods of Measurement

During the process of the testing, The EUT was connected to the RF average power meter through an external attenuator and a known loss cable. The EUT is max power transmission with proper modulation. We use ‘measurement using an RF average power meter’ Method in KDB789033 for this test

Test Setup



Limits

Rule FCC Part 15.407(a)

For an indoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi.

For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W.

Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 2$, $U = 0.44$ dB.

Test Results

Channel	Power Index					
	36	40	48	149	157	165
802.11a	16	16	16	15	18	9
802.11n HT20	16	16	16	16	16	16
802.11ac HT20	16	16	16	16	16	16
802.11n HT20 (MIMO)	12	11	11	8	8	11
802.11ac HT20 (MIMO)	11	11	11	8	8	8
Channel	38	46	151	159	--	--
802.11n HT40	16	16	16	16	--	--
802.11ac HT40	16	16	16	16	--	--
802.11n HT40 (MIMO)	12	12	9	9	--	--
802.11ac HT40 (MIMO)	12	11	9	8	--	--
Channel	42	155	--	--	--	--
802.11ac HT80	16	16	--	--	--	--
802.11ac HT80 (MIMO)	11	10	--	--	--	--

Antenna 1

Network Standards	Channel/Frequency (MHz)	Peak Output Power (dBm)	Conclusion
802.11a	36/5180	17.73	PASS
	40/5200	18.07	PASS
	48/5240	18.15	PASS
	149/5745	18.16	PASS
	157/5785	18.28	PASS
	165/5825	18.36	PASS
802.11n HT20	36/5180	17.85	PASS
	40/5200	18.13	PASS
	48/5240	18.23	PASS
	149/5745	18.13	PASS
	157/5785	18.34	PASS
	165/5825	18.45	PASS
802.11n HT40	38/5190	18.41	PASS
	46/5230	18.63	PASS
	151/5755	18.53	PASS
	159/5795	18.63	PASS



802.11ac HT20	36/5180	17.93	PASS
	40/5200	18.06	PASS
	48/5240	18.34	PASS
	149/5745	18.20	PASS
	157/5785	18.39	PASS
	165/5825	18.41	PASS
802.11ac HT40	38/5190	18.48	PASS
	46/5230	18.58	PASS
	151/5755	18.47	PASS
	159/5795	18.55	PASS
802.11ac HT80	42/5210	18.23	PASS
	155/5775	18.64	PASS

Antenna 2

Network Standards	Channel/Frequency (MHz)	Peak Output Power (dBm)	Conclusion
802.11a	36/5180	18.06	PASS
	40/5200	17.78	PASS
	48/5240	18.04	PASS
	149/5745	17.73	PASS
	157/5785	17.65	PASS
	165/5825	18.16	PASS
802.11n HT20	36/5180	18.13	PASS
	40/5200	17.83	PASS
	48/5240	18.13	PASS
	149/5745	17.66	PASS
	157/5785	17.73	PASS
802.11n HT40	165/5825	18.23	PASS
	38/5190	18.36	PASS
	46/5230	18.64	PASS
	151/5755	18.13	PASS
802.11ac HT20	159/5795	18.13	PASS
	36/5180	18.24	PASS
	40/5200	17.79	PASS
	48/5240	18.09	PASS
	149/5745	17.85	PASS
	157/5785	17.78	PASS
	165/5825	18.34	PASS



802.11ac HT40	38/5190	18.45	PASS
	46/5230	18.58	PASS
	151/5755	18.24	PASS
	159/5795	18.24	PASS
802.11ac HT80	42/5210	18.26	PASS
	155/5775	18.10	PASS

Antenna 3

Network Standards	Channel/Frequency (MHz)	Peak Output Power (dBm)	Conclusion
802.11a	36/5180	17.59	PASS
	40/5200	17.78	PASS
	48/5240	17.65	PASS
	149/5745	17.71	PASS
	157/5785	17.53	PASS
	165/5825	18.01	PASS
802.11n HT20	36/5180	17.63	PASS
	40/5200	17.84	PASS
	48/5240	17.73	PASS
	149/5745	17.82	PASS
	157/5785	17.62	PASS
	165/5825	18.11	PASS
802.11n HT40	38/5190	18.02	PASS
	46/5230	17.84	PASS
	151/5755	17.76	PASS
	159/5795	18.21	PASS
802.11ac HT20	36/5180	17.53	PASS
	40/5200	17.89	PASS
	48/5240	17.80	PASS
	149/5745	17.68	PASS
	157/5785	17.86	PASS
	165/5825	18.21	PASS
802.11ac HT40	38/5190	18.13	PASS
	46/5230	17.96	PASS
	151/5755	17.96	PASS
	159/5795	18.38	PASS
802.11ac HT80	42/5210	17.67	PASS
	155/5775	17.96	PASS



Antenna 4

Network Standards	Channel/Frequency (MHz)	Peak Output Power (dBm)	Conclusion
802.11a	36/5180	17.16	PASS
	40/5200	17.51	PASS
	48/5240	18.05	PASS
	149/5745	17.53	PASS
	157/5785	17.62	PASS
	165/5825	17.58	PASS
802.11n HT20	36/5180	17.45	PASS
	40/5200	17.56	PASS
	48/5240	17.90	PASS
	149/5745	17.62	PASS
	157/5785	17.58	PASS
	165/5825	17.63	PASS
802.11n HT40	38/5190	17.90	PASS
	46/5230	18.10	PASS
	151/5755	17.78	PASS
	159/5795	17.85	PASS
802.11ac HT20	36/5180	17.46	PASS
	40/5200	17.45	PASS
	48/5240	17.71	PASS
	149/5745	17.58	PASS
	157/5785	17.65	PASS
	165/5825	17.70	PASS
802.11ac HT40	38/5190	17.85	PASS
	46/5230	18.05	PASS
	151/5755	17.82	PASS
	159/5795	17.90	PASS
802.11ac HT80	42/5210	17.65	PASS
	155/5775	17.93	PASS

**MIMO**

Network Standards	Channel/Frequency (MHz)	Ant1 (dBm)	Ant2 (dBm)	Ant3 (dBm)	Ant4 (dBm)	Peak Output Power (dBm)	Conclusion
802.11n HT20	36/5180	10.93	11.42	11.09	10.65	17.05	PASS
	40/5200	10.9	10.85	11.1	10.59	16.88	PASS
	48/5240	10.91	11.33	11.41	11.1	17.21	PASS
	149/5745	13.57	13.48	13.51	13.39	19.51	PASS
	157/5785	13.36	13.34	13.89	13.19	19.47	PASS
	165/5825	13.54	13.66	13.87	13.12	19.58	PASS
802.11n HT40	38/5190	11.12	11.46	11.56	10.89	17.29	PASS
	46/5230	11.05	11.75	11.86	11.44	17.56	PASS
	151/5755	13.45	13.81	14.27	13.52	19.8	PASS
	159/5795	13.89	13.72	14.21	13.47	19.85	PASS
802.11ac HT20	36/5180	10.75	11.49	11.19	10.66	17.06	PASS
	40/5200	11.16	11.08	11.36	10.65	17.09	PASS
	48/5240	11.06	11.19	11.51	11.01	17.22	PASS
	149/5745	13.13	13.31	13.78	13.16	19.37	PASS
	157/5785	13.34	13.29	13.87	13.13	19.44	PASS
	165/5825	13.65	13.77	13.79	13.13	19.61	PASS
802.11ac HT40	38/5190	10.98	11.39	11.41	10.73	17.16	PASS
	46/5230	11.1	11.42	11.73	11.19	17.39	PASS
	151/5755	13.62	13.69	14.01	13.57	19.75	PASS
	159/5795	13.69	13.59	14.15	13.53	19.77	PASS
802.11ac HT80	42/5210	10.57	11.21	11.17	10.52	16.9	PASS
	155/5775	13.35	13.37	13.84	13.12	19.45	PASS

5.2. Occupied Bandwidth

Ambient condition

Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.5kPa

Method of Measurement

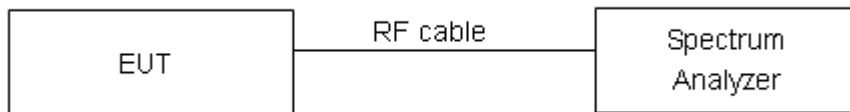
The EUT was connected to the spectrum analyzer through an external attenuator (20dB) and a known loss cable.

Set RBW $\approx 1\%$ OCB kHz, VBW $\geq 3 \times$ RBW, measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 26 dB relative to the maximum level measured in the fundamental emission.

Note: The automatic bandwidth measurement capability of a spectrum analyzer or EMI receiver may be employed if it implements the functionality described above.

Use the 99 % power bandwidth function of the instrument

Test Setup



Limits

Rule FCC Part 15.407(a)(5)/15.407(e)

Within the 5.725-5.85 GHz band, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.

Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 2$, $U = 936$ Hz.

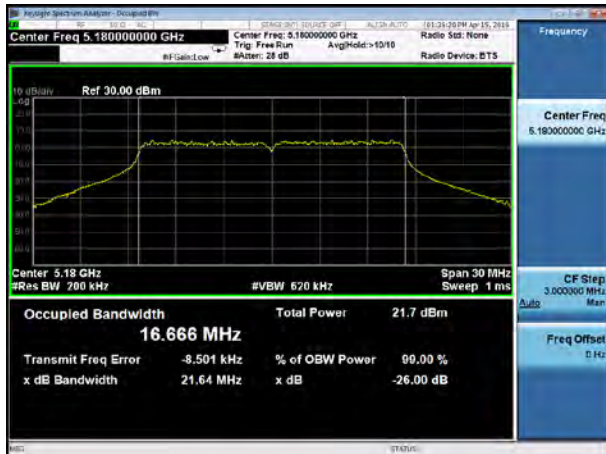
**Test Results:****Antenna 1**

Network Standards	Channel/ Frequency (MHz)	99% bandwidth (MHz)	Minimum 26 dB bandwidth (MHz)	Conclusion
802.11a	36/5180	16.666	21.64	PASS
	40/5200	16.686	21.86	PASS
	48/5240	16.633	21.63	PASS
802.11n HT20	36/5180	17.853	22.83	PASS
	40/5200	17.870	22.99	PASS
	48/5240	17.864	23.21	PASS
802.11n HT40	38/5190	36.350	42.24	PASS
	46/5230	36.307	42.20	PASS
802.11ac HT20	36/5180	17.906	23.19	PASS
	40/5200	17.847	23.09	PASS
	48/5240	17.868	22.84	PASS
802.11ac HT40	38/5190	36.342	42.02	PASS
	46/5230	36.335	41.68	PASS
802.11ac HT80	42/5210	75.381	82.72	PASS

Network Standards	Channel/ Frequency (MHz)	99% bandwidth (MHz)	Minimum 6 dB bandwidth (MHz)	Limit(kHz)	Conclusion
802.11a	149/5745	16.663	16.45	500	PASS
	157/5785	16.672	16.50	500	PASS
	165/5825	16.673	16.48	500	PASS
802.11n HT20	149/5745	17.871	17.70	500	PASS
	157/5785	17.859	17.70	500	PASS
	165/5825	17.859	17.69	500	PASS
802.11n HT40	151/5755	36.352	36.44	500	PASS
	159/5795	36.345	36.38	500	PASS
802.11ac HT20	149/5745	17.855	17.73	500	PASS
	157/5785	17.890	17.71	500	PASS
	165/5825	17.909	17.72	500	PASS
802.11ac HT40	151/5755	36.338	36.44	500	PASS
	159/5795	36.351	36.36	500	PASS
802.11ac HT80	155/5775	75.543	75.80	500	PASS



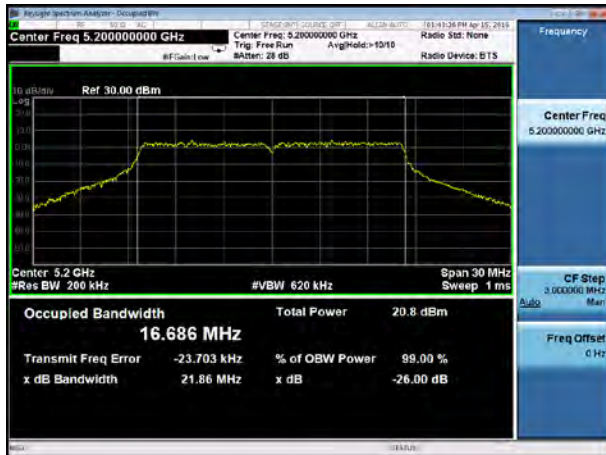
802.11a Carrier frequency (MHz): 5180



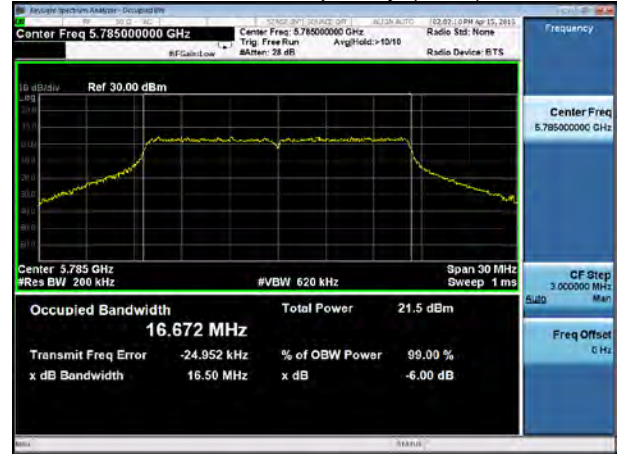
802.11a Carrier frequency (MHz): 5745



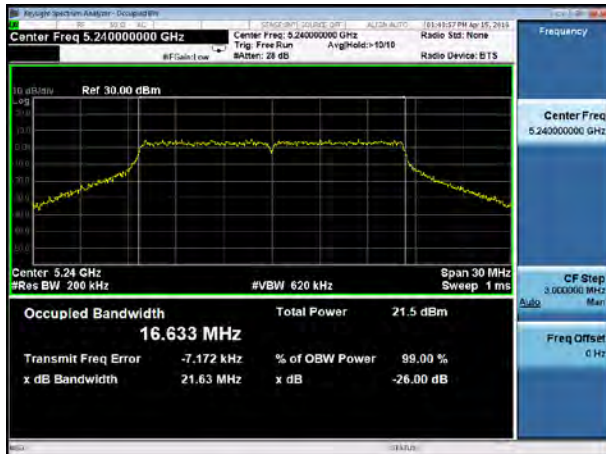
802.11a Carrier frequency (MHz): 5200



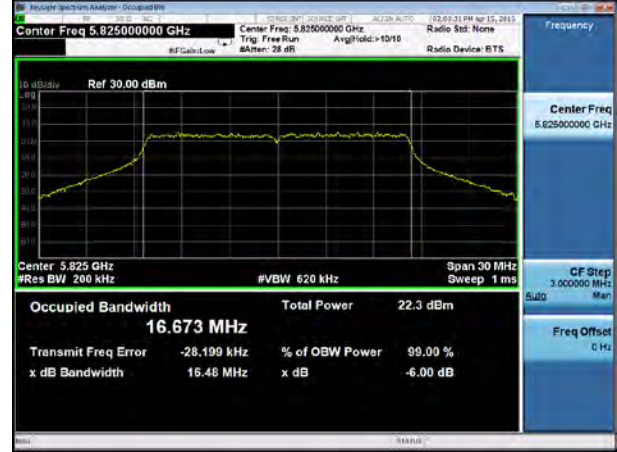
802.11a Carrier frequency (MHz): 5785



802.11a Carrier frequency (MHz): 5240



802.11a Carrier frequency (MHz): 5825

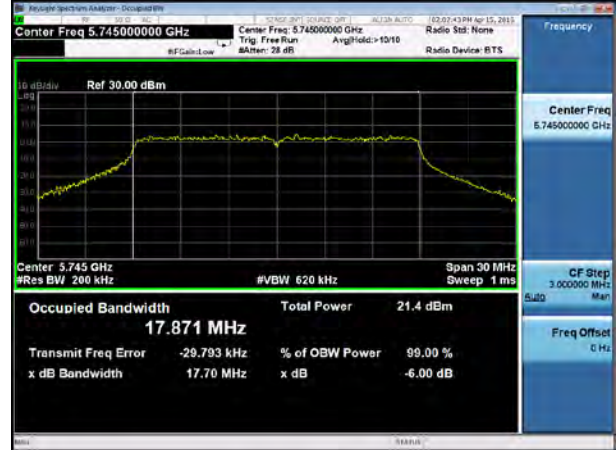




802.11n HT20 Carrier frequency (MHz): 5180



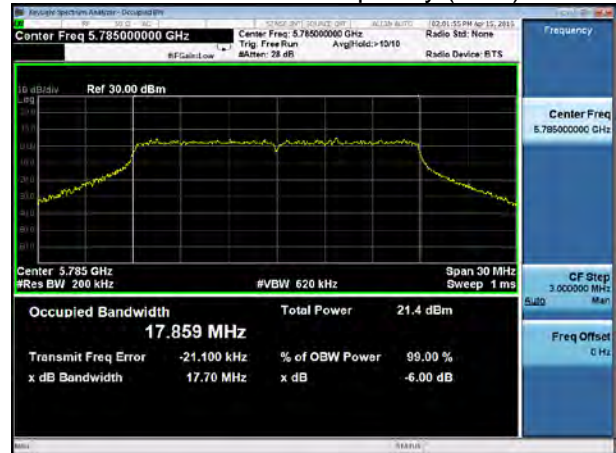
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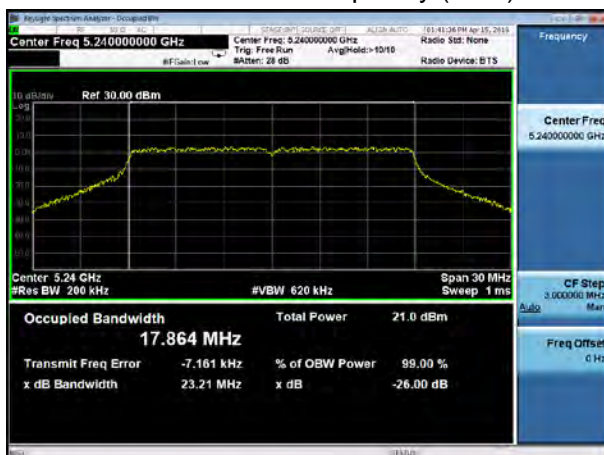
802.11n HT20 Carrier frequency (MHz): 5200



802.11n HT20 Carrier frequency (MHz): 5785



802.11n HT20 Carrier frequency (MHz): 5240



802.11n HT20 Carrier frequency (MHz): 5825





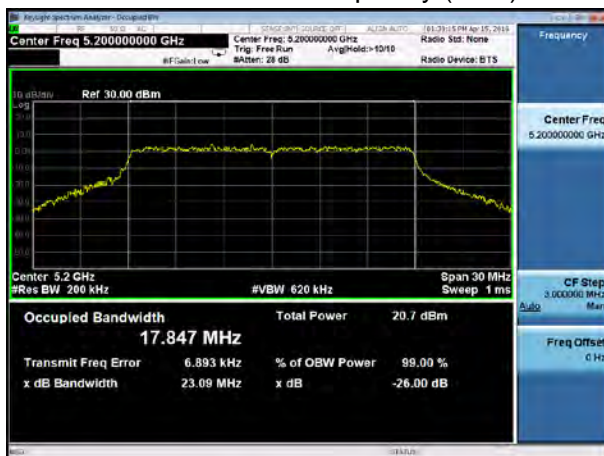
802.11ac HT20 Carrier frequency (MHz): 5180



802.11ac HT20 Carrier frequency (MHz): 5745



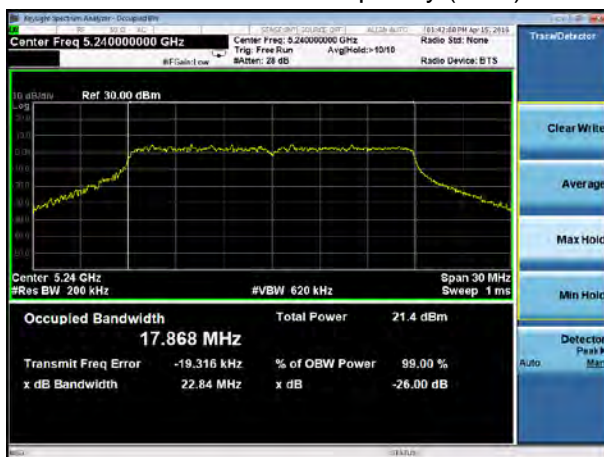
802.11ac HT20 Carrier frequency (MHz): 5200



802.11ac HT20 Carrier frequency (MHz): 5785



802.11ac HT20 Carrier frequency (MHz): 5240



802.11ac HT20 Carrier frequency (MHz): 5825



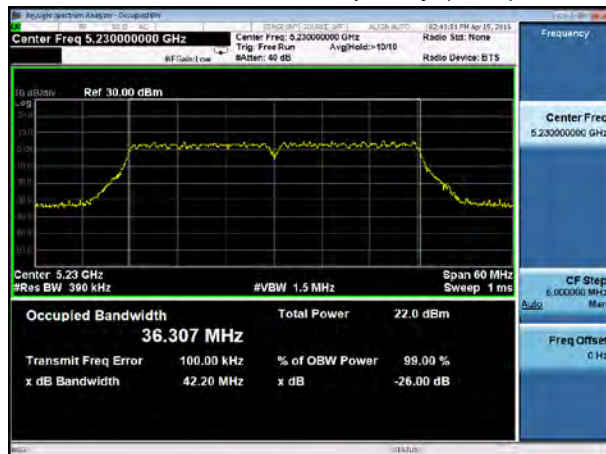
802.11n HT40, Carrier frequency (MHz): 5190



802.11n HT40, Carrier frequency (MHz): 5755



802.11n HT40, Carrier frequency (MHz): 5230

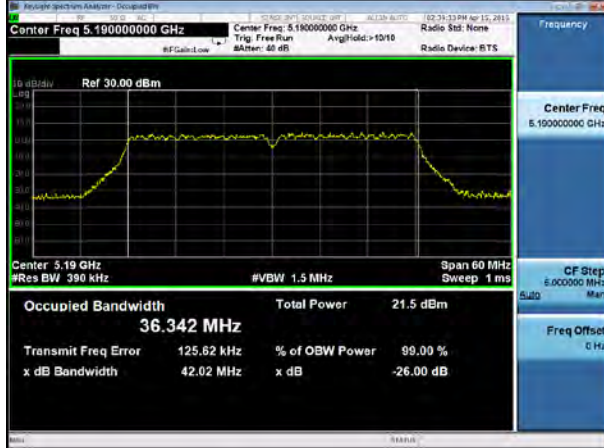


802.11n HT40, Carrier frequency (MHz): 5795





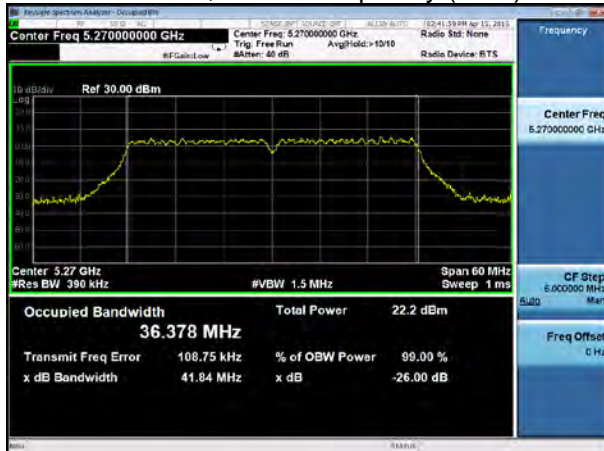
802.11ac HT40, Carrier frequency (MHz): 5190



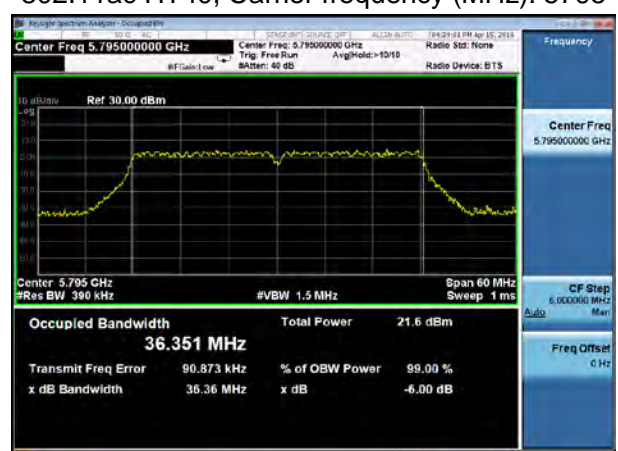
802.11ac HT40, Carrier frequency (MHz): 5755



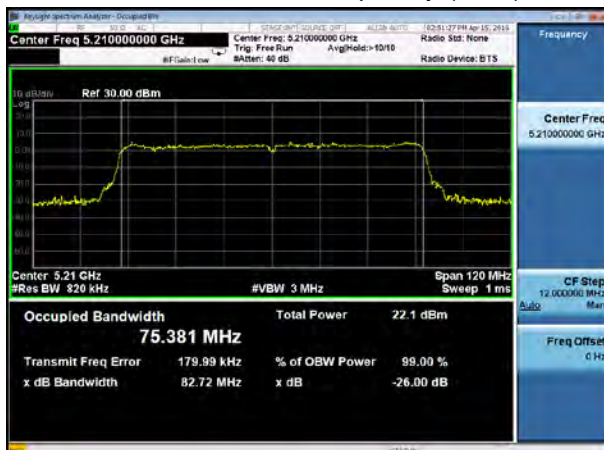
802.11ac HT40, Carrier frequency (MHz): 5270



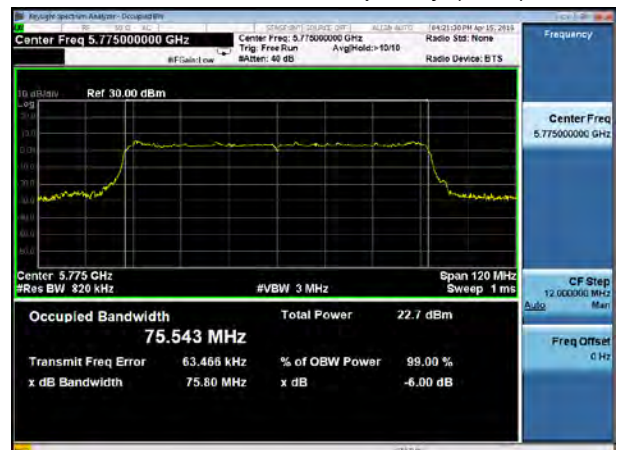
802.11ac HT40, Carrier frequency (MHz): 5795



802.11ac HT80, Carrier frequency (MHz): 5210



802.11ac HT80, Carrier frequency (MHz): 5775



5.3. Frequency Stability

Ambient condition

Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.5kPa

Method of Measurement

1. Frequency stability with respect to ambient temperature

a) Supply the EUT with a nominal ac voltage or install a new or fully charged battery in the EUT. If possible, a dummy load shall be connected to the EUT because an antenna near the metallic walls of an environmental test chamber could affect the output frequency of the EUT. If the EUT is equipped with a permanently attached, adjustable-length antenna, then the EUT shall be placed in the center of the chamber with the antenna adjusted to the shortest length possible. Turn ON the EUT and tune it to one of the number of frequencies shown in 5.6.

b) Couple the unlicensed wireless device output to the measuring instrument by connecting an antenna to the measuring instrument with a suitable length of coaxial cable and placing the measuring antenna near the EUT (e.g., 15 cm away), or by connecting a dummy load to the measuring instrument, through an attenuator if necessary.

c) Adjust the location of the measurement antenna and the controls on the measurement instrument to obtain a suitable signal level (i.e., a level that will not overload the measurement instrument but is strong enough to allow measurement of the operating or fundamental frequency of the EUT).

d) Turn the EUT OFF and place it inside the environmental temperature chamber. For devices that have oscillator heaters, energize only the heater circuit.

e) Set the temperature control on the chamber to the highest specified in the regulatory requirements for the type of device and allow the oscillator heater and the chamber temperature to stabilize.

f) While maintaining a constant temperature inside the environmental chamber, turn the EUT ON and record the operating frequency at startup, and at 2 minutes, 5 minutes, and 10 minutes after the EUT is energized. Four measurements in total are made.

g) Measure the frequency at each of frequencies specified in 5.6.

h) Switch OFF the EUT but do not switch OFF the oscillator heater.

i) Lower the chamber temperature by not more than 10 ° C, and allow the temperature inside the chamber to stabilize.

j) Repeat step f) through step i) down to the lowest specified temperature.

2. Frequency stability when varying supply voltage

Unless otherwise specified, these tests shall be made at ambient room temperature (+15 ° C to +25 ° C). An antenna shall be connected to the antenna output terminals of the EUT if possible. If the EUT is equipped with or uses an adjustable-length antenna, then it shall be fully extended.

a) Supply the EUT with nominal voltage or install a new or fully charged battery in the EUT. Turn ON the EUT and couple its output to a frequency counter or other frequency-measuring instrument.



- b) Tune the EUT to one of the number of frequencies required in 5.6. Adjust the location of the measurement antenna and the controls on the measurement instrument to obtain a suitable signal level (i.e., a level that will not overload the measurement instrument but is strong enough to allow measurement of the operating or fundamental frequency of the EUT).
- c) Measure the frequency at each of the frequencies specified in 5.6.
- d) Repeat the above procedure at 85% and 115% of the nominal supply voltage.

Limit

Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the users manual.

Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 2$, $U = 936\text{Hz}$

**Test Results**

Temperature (°C)	Test Results / 220V Power supply			
	5200MHz			
	1min	2min	5min	10min
-20	5199.97	5199.965	5199.953	5199.95
-10	5199.97	5199.965	5199.952	5199.95
0	5199.969	5199.965	5199.952	5199.948
10	5199.968	5199.964	5199.952	5199.948
20	5199.967	5199.954	5199.951	5199.947
30	5199.967	5199.954	5199.951	5199.946
40	5199.966	5199.953	5199.951	5199.945
50	5199.966	5199.953	5199.95	5199.944
MHz	0.0345	0.0472	0.0497	0.0556
PPM	8.15	8.38	8.67	9.12

Voltage (V)	Test Results / 20°C			
	5200MHz			
	1min	2min	5min	10min
264	5199.963	5199.962	5199.961	5199.959
220	5199.962	5199.961	5199.959	5199.957
90	5199.961	5199.96	5199.959	5199.957
MHz	0.0392	0.0401	0.0415	0.0433
PPM	7.54	7.71	7.98	8.33

Temperature (°C)	Test Results / 220V Power supply			
	5785MHz			
	1min	2min	5min	10min
-20	5784.954	5784.956	5784.951	5784.952
-10	5784.953	5784.954	5784.95	5784.951
0	5784.951	5784.953	5784.948	5784.948
10	5784.95	5784.951	5784.947	5784.948
20	5784.949	5784.95	5784.946	5784.947
30	5784.947	5784.949	5784.945	5784.946
40	5784.946	5784.947	5784.943	5784.944
50	5784.944	5784.946	5784.941	5784.952
MHz	0.0559	0.0544	0.0586	0.0563
PPM	9.66	9.40	10.13	8.30

Voltage (V)	Test Results / 20°C			
	5785MHz			
	1min	2min	5min	10min
264	5784.952	5784.951	5784.949	5784.947
220	5784.95	5784.949	5784.948	5784.946
90	5784.949	5784.948	5784.947	5784.945
MHz	0.051	0.0519	0.0533	0.0551
PPM	8.82	8.97	9.21	9.52

5.4. Power Spectral Density

Ambient condition

Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.5kPa

Method of Measurement

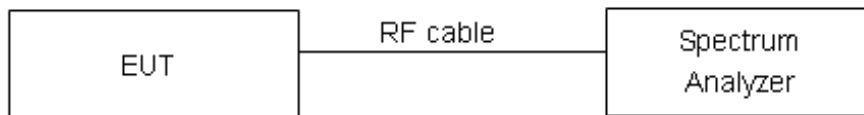
The EUT was connected to the spectrum analyzer through an external attenuator (20dB) and a known loss cable.

Set RBW = 1 MHz, VBW =3MHz on spectrum analyzer for U-NII-1/2A/2C

Set RBW = 510 MHz, VBW =1.5MHz on spectrum analyzer for U-NII-3

The conducted PSD is measured at each antenna port. The measured results at the various antenna ports are then summed mathematically.

Test setup



Limits

Rule FCC Part 15.407(a)(3)/ Part 15.407(a)(1)

For an indoor access point operating in the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For the band 5.745-5.85 GHz, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum powerspectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Frequency Bands/MHz	Limits
U-NII-1	17dBm/MHz
U-NII-3	30dBm/500kHz

Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 2$, $U = 0.75\text{dB}$.

**Test Results:****Antenna 1**

Network Standards	Channel/ Frequency (MHz)	Power Spectral Density (dBm / MHz)	Limit (dBm / MHz)	Conclusion
802.11a	36/5180	10.063	17	PASS
	40/5200	9.684	17	PASS
	48/5240	9.794	17	PASS
802.11n HT20	36/5180	10.512	17	PASS
	40/5200	9.906	17	PASS
	48/5240	10.500	17	PASS
802.11n HT40	38/5190	6.294	17	PASS
	46/5230	6.639	17	PASS
802.11ac HT20	36/5180	10.093	17	PASS
	40/5200	10.537	17	PASS
	48/5240	10.498	17	PASS
802.11ac HT40	38/5190	6.175	17	PASS
	46/5230	6.381	17	PASS
802.11ac HT80	42/5210	4.102	17	PASS

Network Standards	Channel/ Frequency (MHz)	Power Spectral Density (dBm / 500kHz)	Limit (dBm / 500kHz)	Conclusion
802.11a	149/5745	8.292	30	PASS
	157/5785	8.343	30	PASS
	165/5825	8.547	30	PASS
802.11n HT20	149/5745	8.801	30	PASS
	157/5785	8.260	30	PASS
	165/5825	8.713	30	PASS
802.11n HT40	151/5755	3.284	30	PASS
	159/5795	2.995	30	PASS
802.11ac HT20	149/5745	8.551	30	PASS
	157/5785	8.055	30	PASS
	165/5825	8.799	30	PASS
802.11ac HT40	151/5755	3.290	30	PASS
	159/5795	3.049	30	PASS
802.11ac HT80	155/5775	2.493	30	PASS

**MIMO**

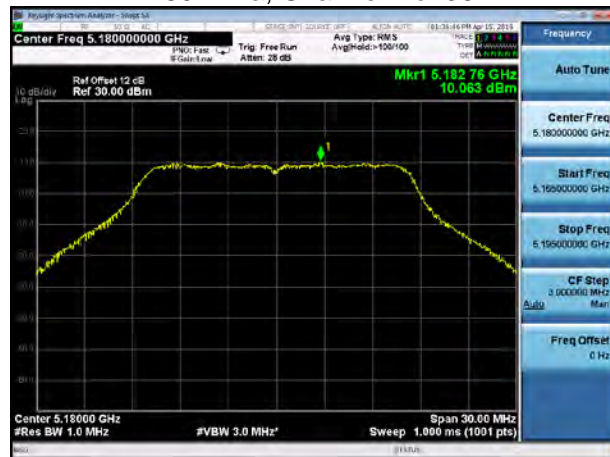
Network Standards	Channel/ Frequency (MHz)	Power Spectral Density (dBm / MHz)	Limit (dBm / MHz)	Conclusion
802.11n HT20	36/5180	9.615	17	PASS
	40/5200	9.686	17	PASS
	48/5240	9.987	17	PASS
802.11n HT40	38/5190	8.892	17	PASS
	46/5230	8.906	17	PASS
802.11ac HT20	36/5180	9.764	17	PASS
	40/5200	9.914	17	PASS
	48/5240	10.284	17	PASS
802.11ac HT40	38/5190	8.788	17	PASS
	46/5230	8.981	17	PASS
802.11ac HT80	42/5210	6.711	17	PASS

Network Standards	Channel/ Frequency (MHz)	Power Spectral Density (dBm / 500kHz)	Limit (dBm / 500kHz)	Conclusion
802.11n HT20	149/5745	12.400	30	PASS
	157/5785	12.418	30	PASS
	165/5825	13.032	30	PASS
802.11n HT40	151/5755	9.682	30	PASS
	159/5795	9.728	30	PASS
802.11ac HT20	149/5745	12.618	30	PASS
	157/5785	12.788	30	PASS
	165/5825	12.918	30	PASS
802.11ac HT40	151/5755	9.684	30	PASS
	159/5795	9.602	30	PASS
802.11ac HT80	155/5775	6.715	30	PASS

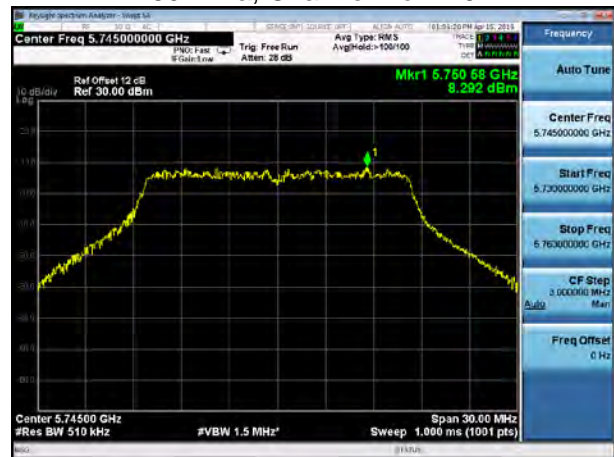


Antenna 1

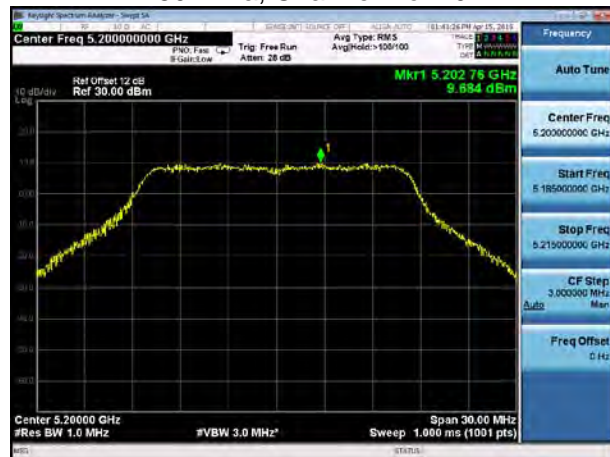
802.11a, Channel No: 36



802.11a, Channel No: 149



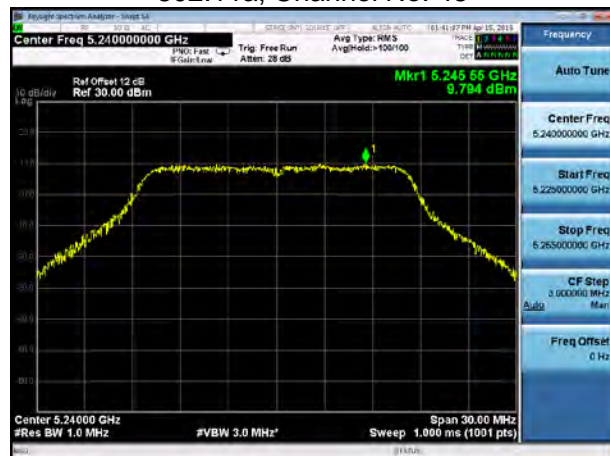
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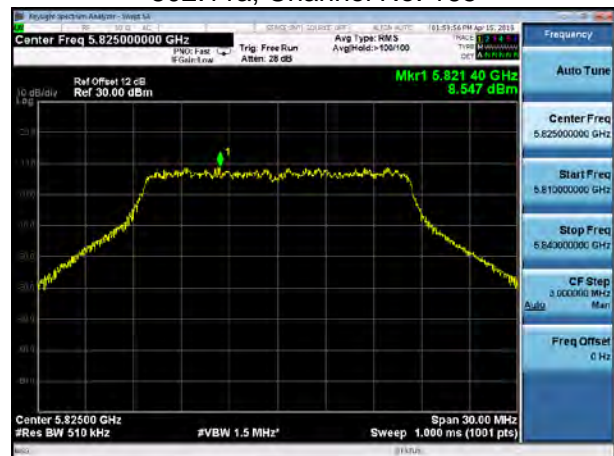
802.11a, Channel No: 157



802.11a, Channel No: 48

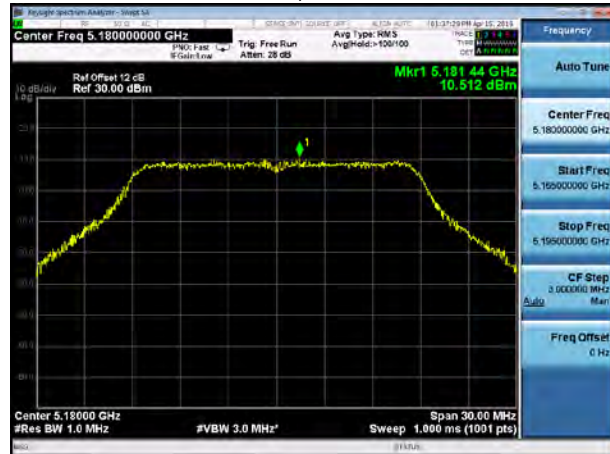


802.11a, Channel No: 165

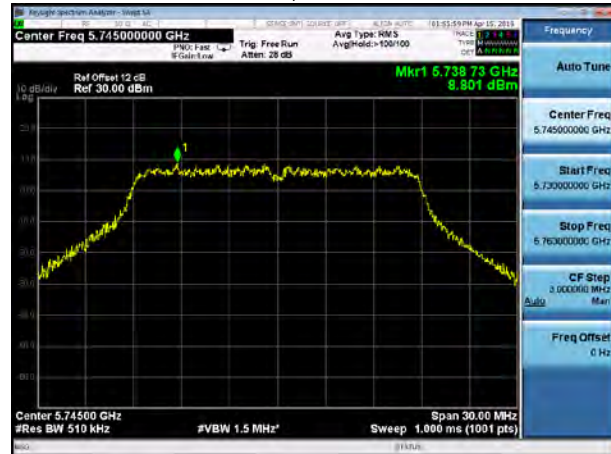




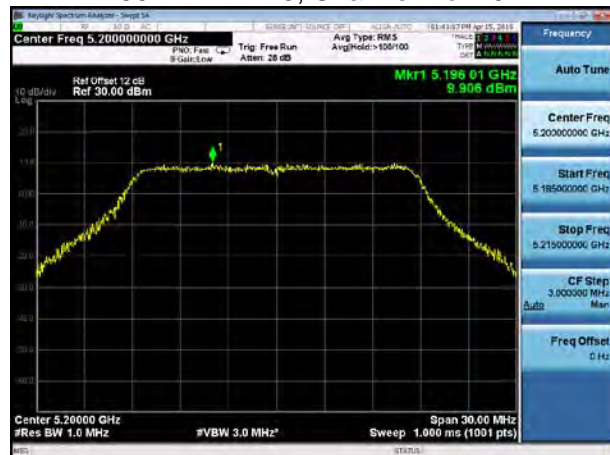
802.11n HT20, Channel No: 36



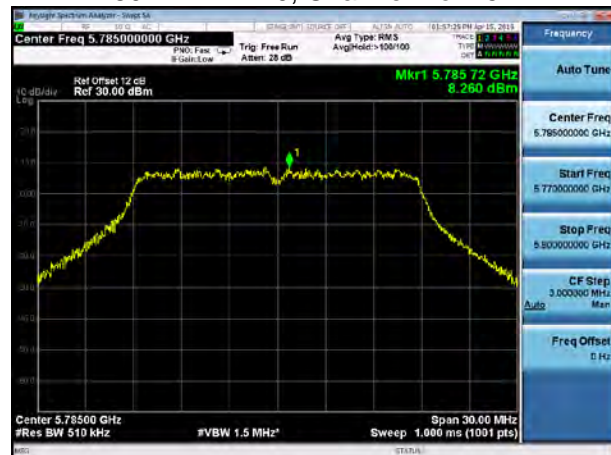
802.11n HT20, Channel No: 149



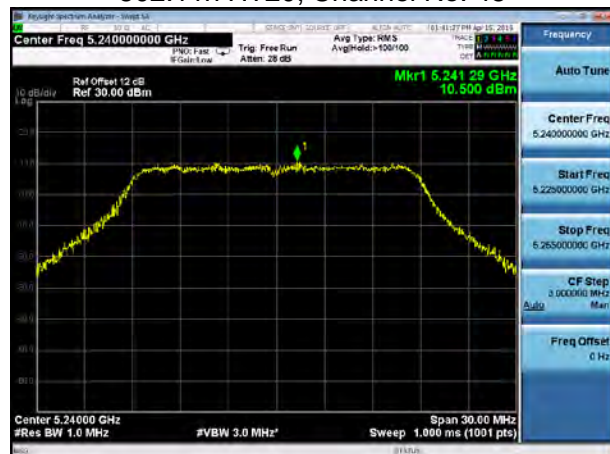
802.11n HT20, Channel No: 40



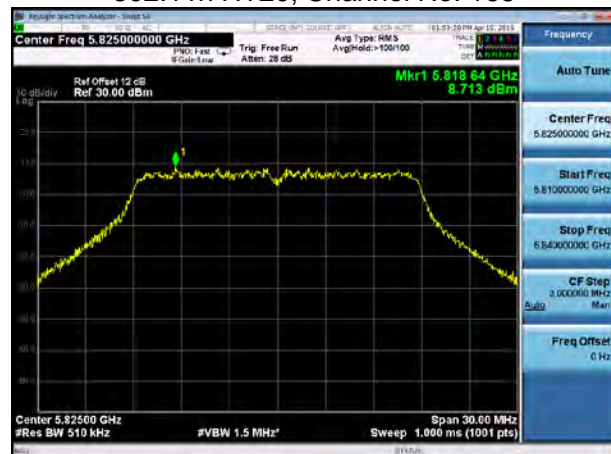
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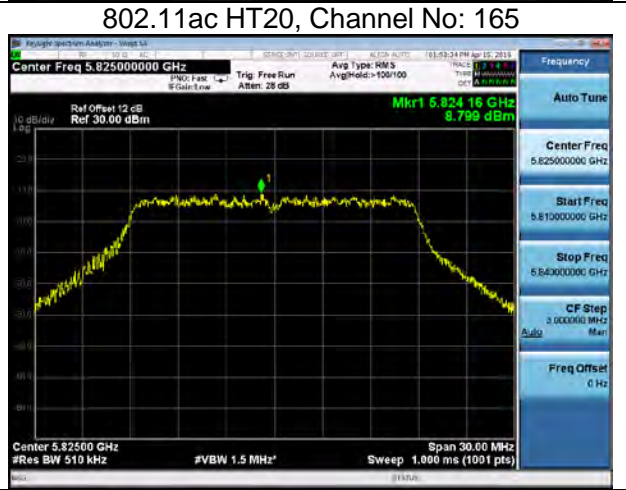
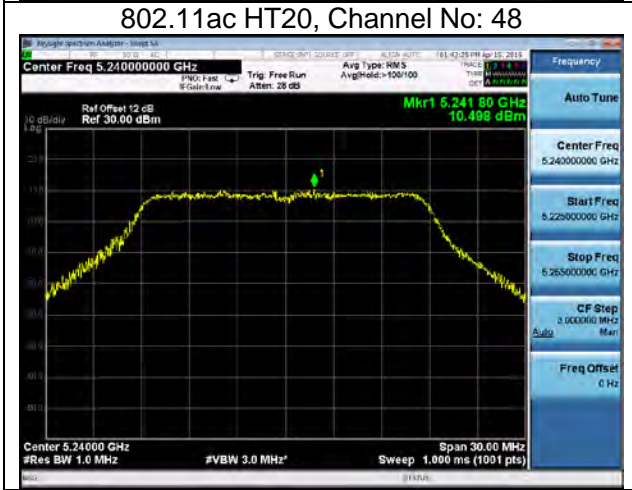
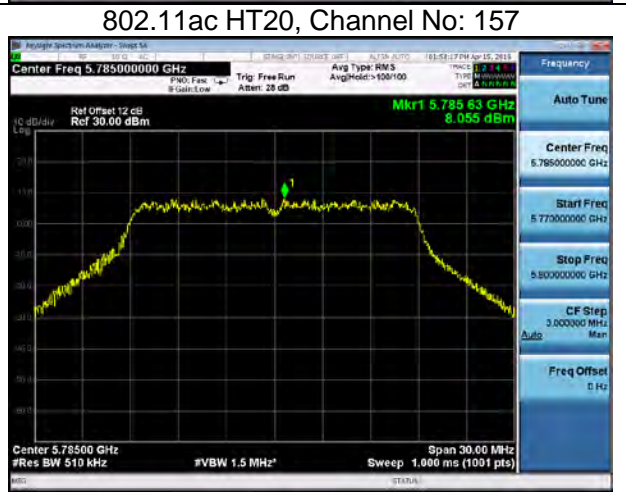
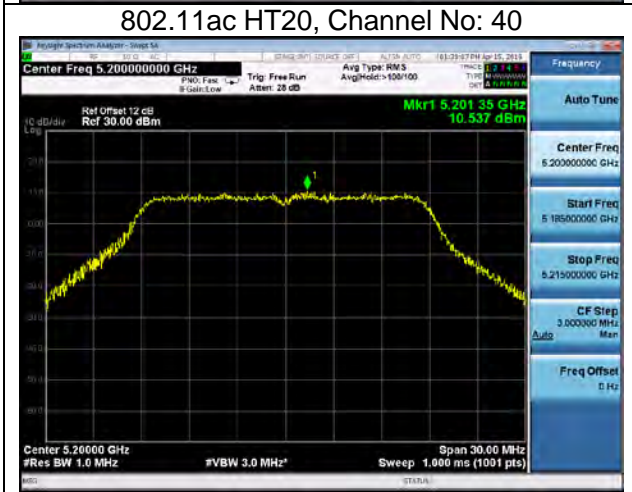
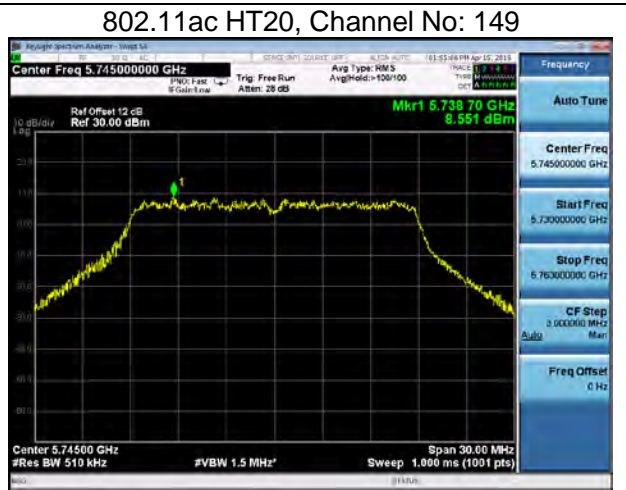
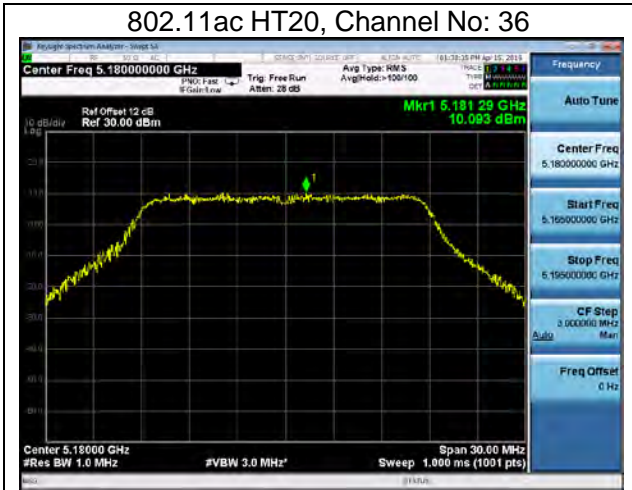


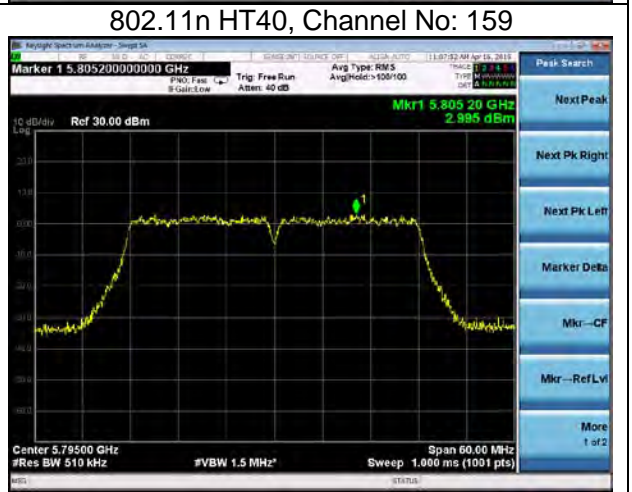
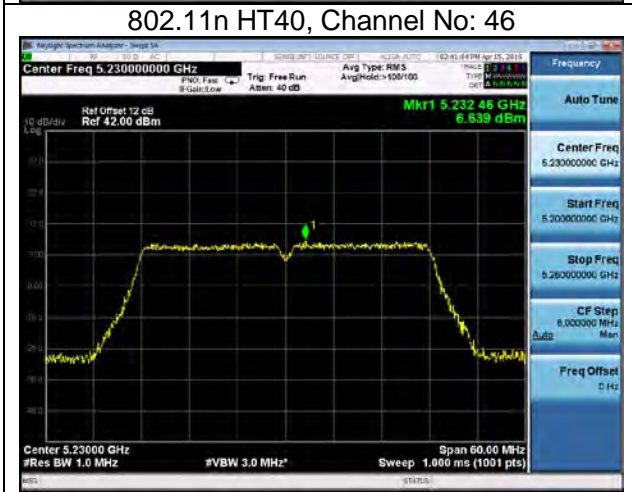
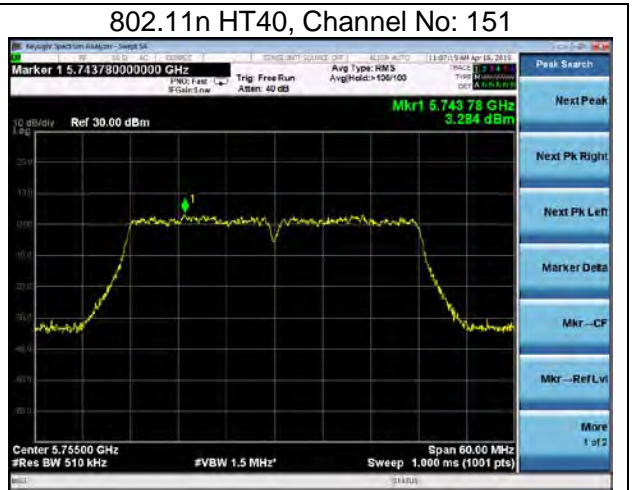
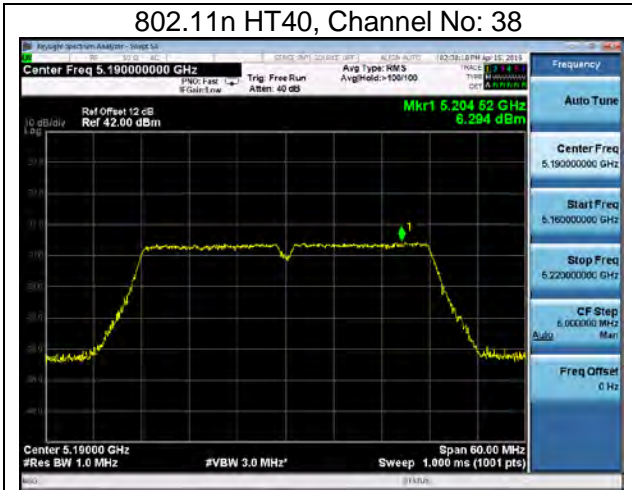
802.11n HT20, Channel No: 48



802.11n HT20, Channel No: 165

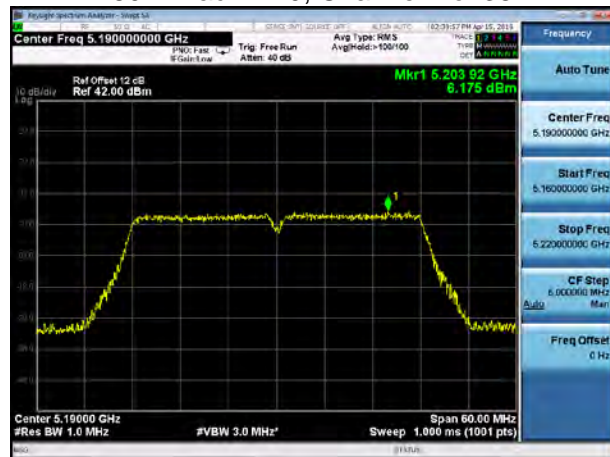








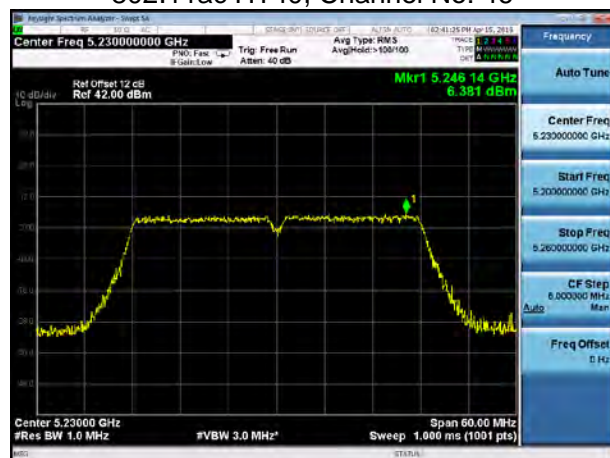
802.11ac HT40, Channel No: 38



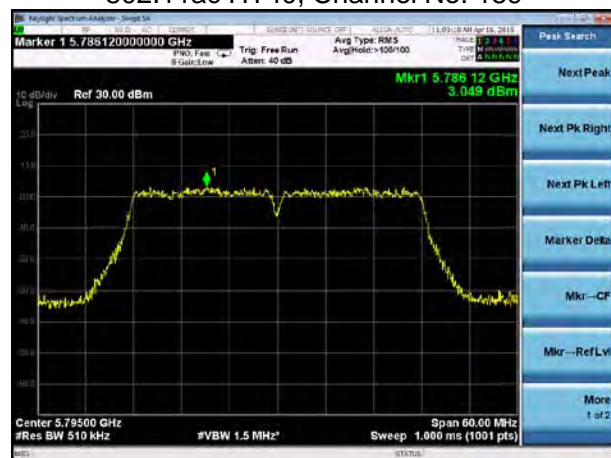
802.11ac HT40, Channel No: 151



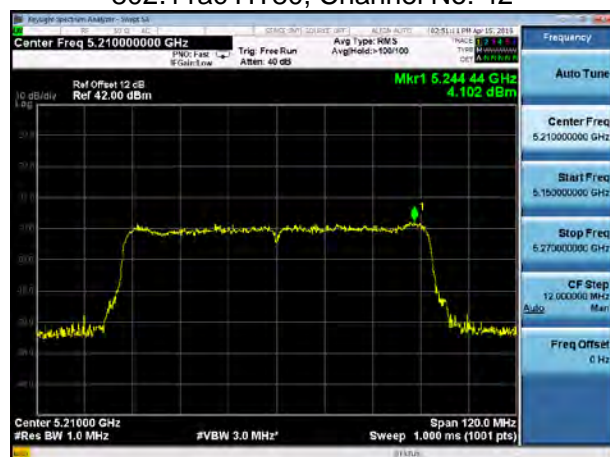
802.11ac HT40, Channel No: 46



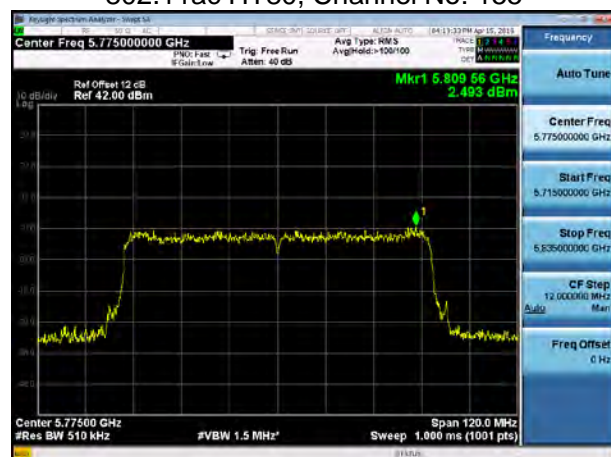
802.11ac HT40, Channel No: 159



802.11ac HT80, Channel No: 42



802.11ac HT80, Channel No: 155



5.5. Unwanted Emission

Ambient condition

Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.5kPa

Method of Measurement

The test set-up was made in accordance to the general provisions of ANSI C63.10-2013. The Equipment Under Test (EUT) was set up on a non-conductive table in the semi-anechoic chamber. The test was performed at the distance of 3 m between the EUT and the receiving antenna. The radiated emissions measurements were made in a typical installation configuration. Sweep the whole frequency band range from 9kHz to the 10th harmonic of the carrier, and the emissions less than 20 dB below the permissible value are reported.

During the test, the height of receive antenna shall be moved from 1 to 4 meters, and the antenna shall be performed under horizontal and vertical polarization. The turntable shall be rotated from 0 to 360 degrees for detecting the maximum of radiated spurious signal level. The measurements shall be repeated with orthogonal polarization of the test antenna. The data of cable loss and antenna factor has been calibrated in full testing frequency range before the testing.

Set the spectrum analyzer in the following:

Below 1GHz (detector: Peak and Quasi-Peak)

RBW=100kHz / VBW=300kHz / Sweep=AUTO

Above 1GHz (detector: Peak):

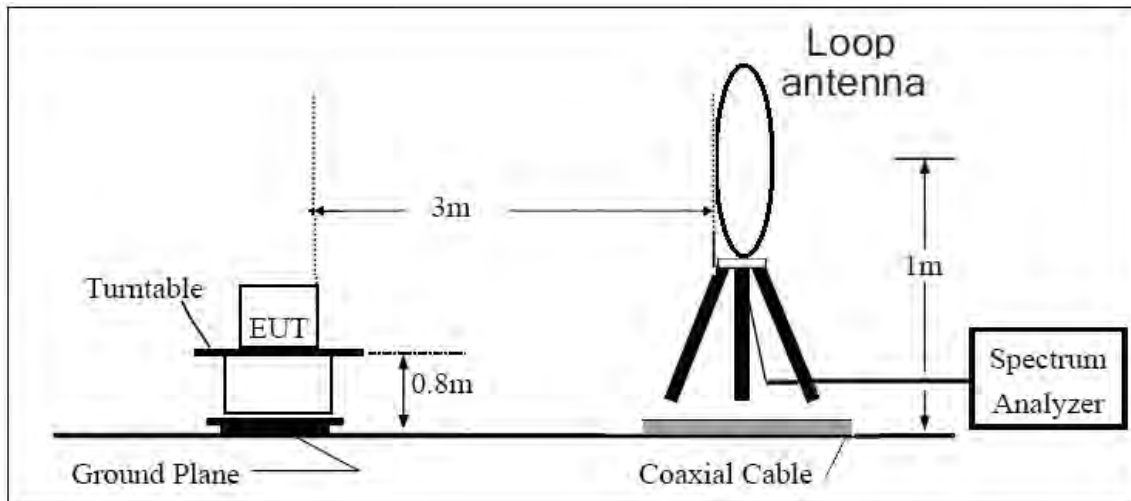
(a) PEAK: RBW=1MHz VBW=3MHz/ Sweep=AUTO

(b) AVERAGE: RBW=1MHz / VBW=3MHz / Sweep=AUTO

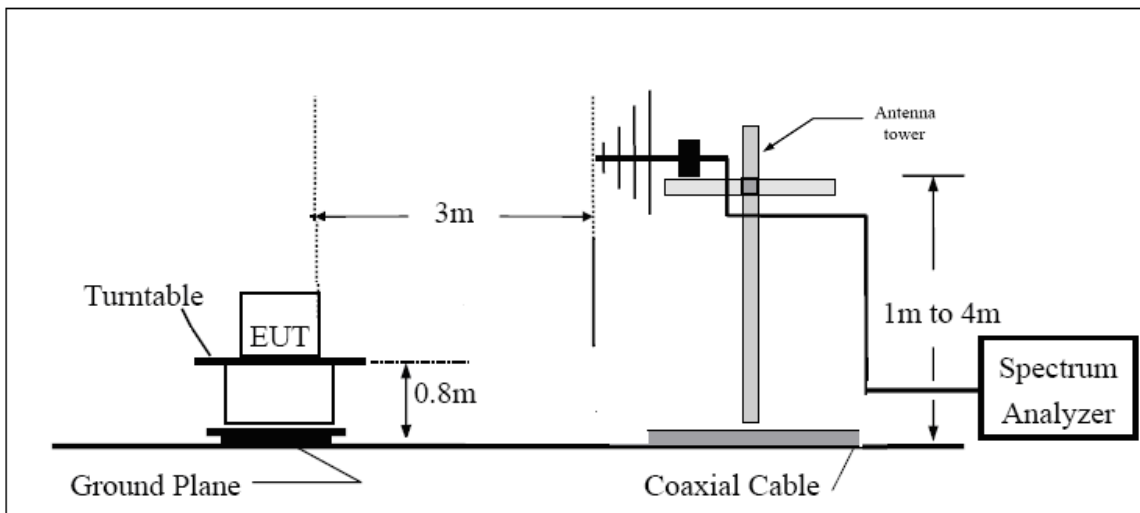
The radiated emission was measured in the following position: EUT stand-up position (Z axis), lie-down position (X, Y axis). The worst emission was found in stand-up position (Z axis) and the worst case was recorded.

The test is in transmitting mode.

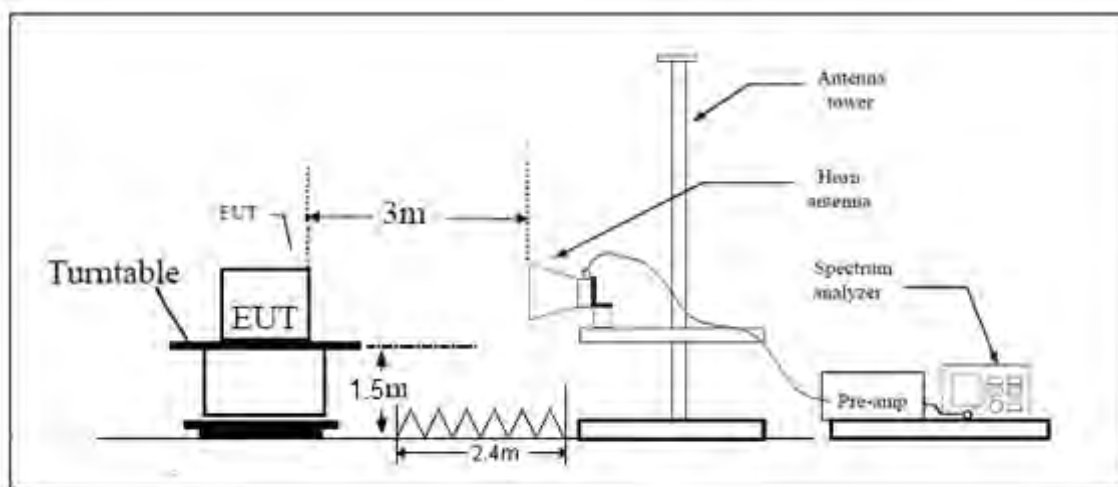
9KHz~~~30MHz



30MHz~~~ 1GHz



Above 1GHz



Note: Area side:2.4mX3.6m

Limits

- (1) For transmitters operating in the 5725-5850 MHz band: all emissions within the frequency range from the band edge to 10 MHz above or below the band edge shall not exceed an EIRP of -17dBm/MHz (78.3dBμV/m); for frequencies 10MHz or greater above or below the band edge, emissions shall not exceed an EIRP of -27dBm/MHz(68.3dBμV/m).

Note: The following formula is used to convert the EIRP to field strength.

$$E = \frac{1000000\sqrt{30P}}{3} \mu\text{V/m, where P is the eirp (Watts)}$$

EIRP (dBm)	Field Strength at 3m (dBμV/m)
-17	78.3
-27	68.3

- (2) For transmitters operating in the 5.15-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz(68.3dBμV/m).
- (3) Unwanted spurious emissions fallen in restricted bands per FCC Part15.205 shall comply with the general field strength limits set forth in § 15.209 as below table.

Frequency of emission (MHz)	Field strength(uV/m)	Field strength(dBuV/m)
0.009–0.490	2400/F(kHz)	/
0.490–1.705	24000/F(kHz)	/
1.705–30.0	30	/
30-88	100	40
88-216	150	43.5
216-960	200	46
Above960	500	54

- (4) Spurious Radiated Emissions are permitted in any of the frequency bands listed below:



MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2690 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	(²)
13.36 - 13.41			

Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 1.96$.

Frequency	Uncertainty
9KHz-30MHz	3.55 dB
30MHz-200MHz	4.19 dB
200MHz-1GHz	3.63 dB
1GHz-26.5G	3.68 dB
26.5G-40GHz	4.76dB

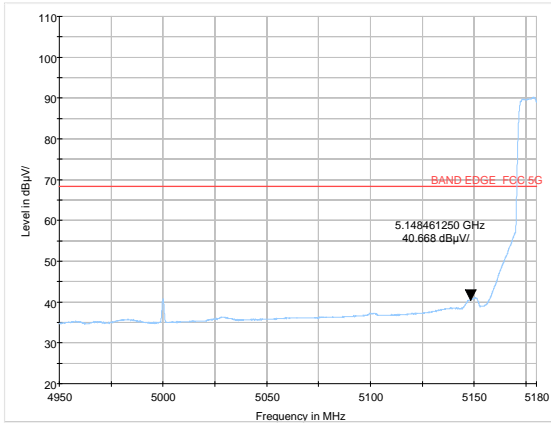


Test Results:

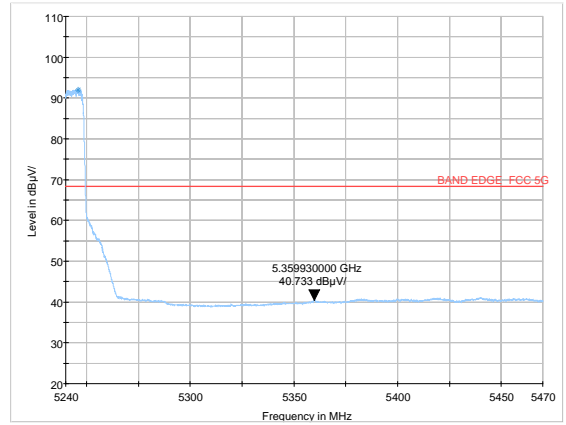
PASS

The signal beyond the limit is carrier.

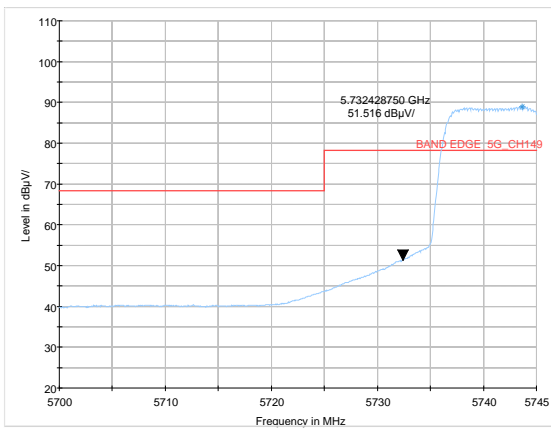
802.11a-Channel 36: Peak



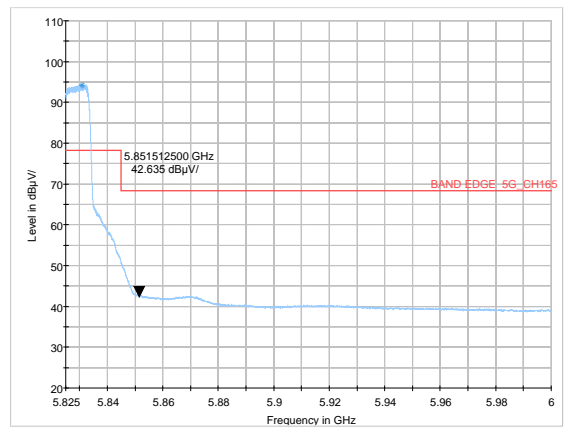
802.11a-Channel 48: Peak



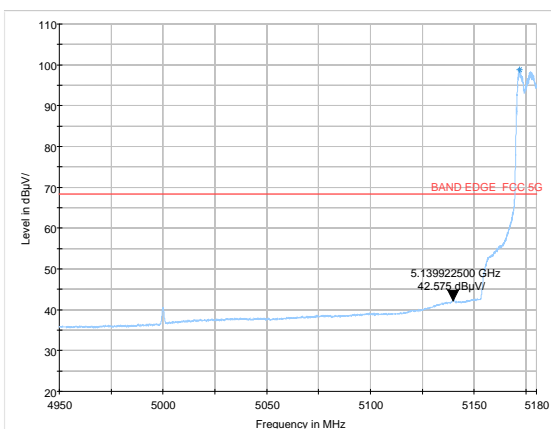
802.11a-Channel 149: Peak



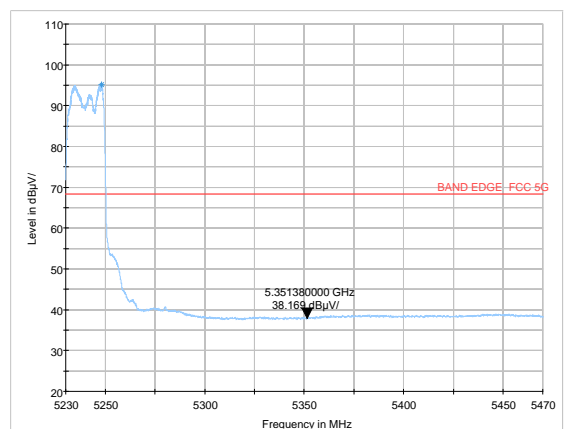
802.11a-Channel 165: Peak



802.11n HT20-Channel 36: Peak

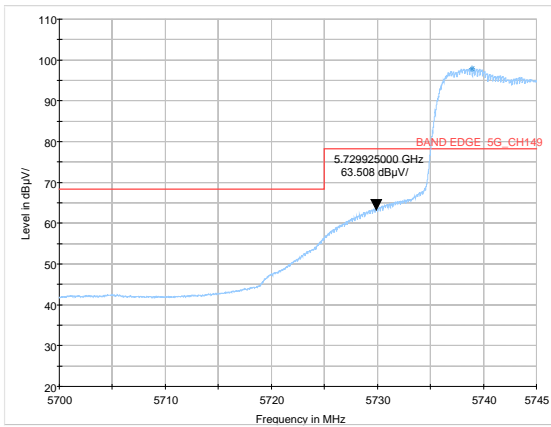


802.11n HT20-Channel 48: Peak

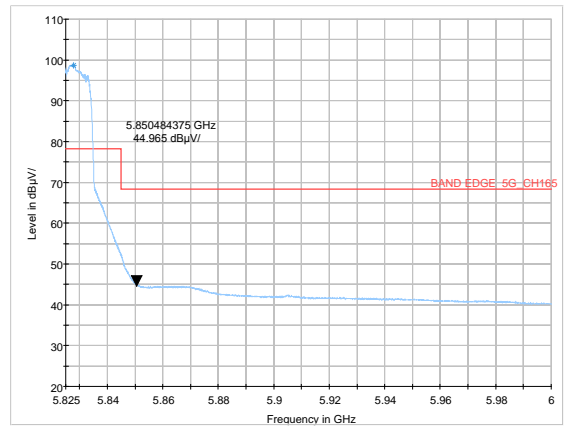




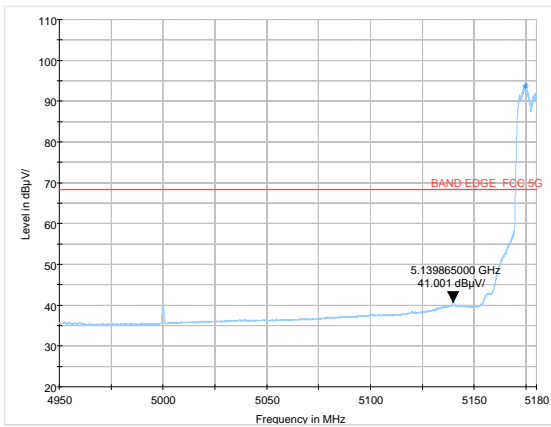
802.11n HT20-Channel 149: Peak



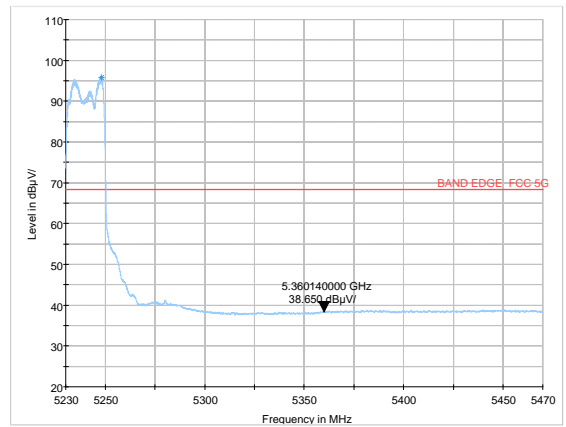
802.11n HT20-Channel 165: Peak



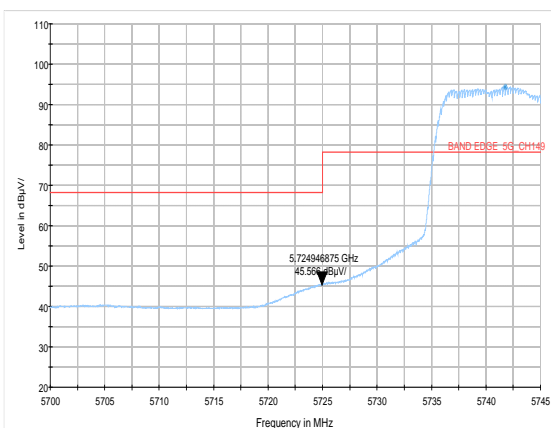
802.11ac HT20-Channel 36: Peak



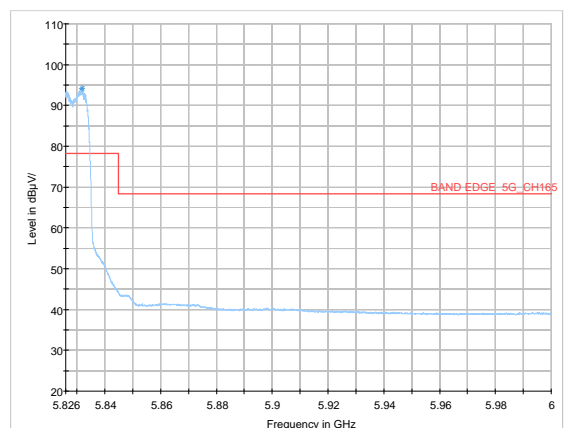
802.11ac HT20-Channel 48: Peak



802.11ac HT20-Channel 149: Peak

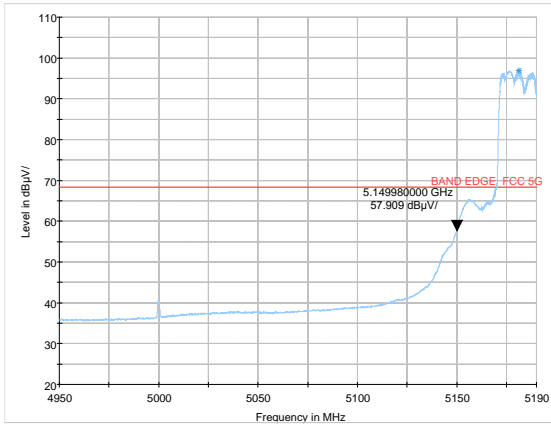


802.11ac HT20-Channel 165: Peak

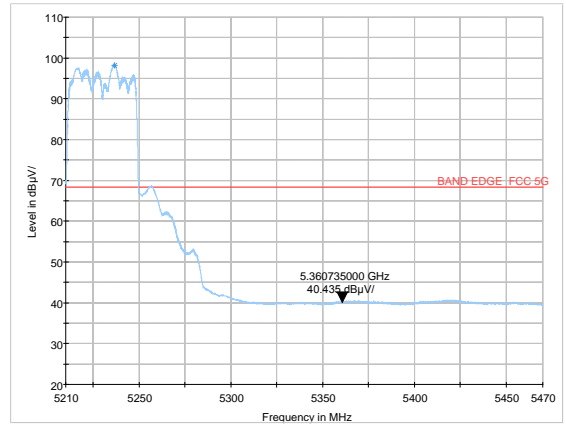




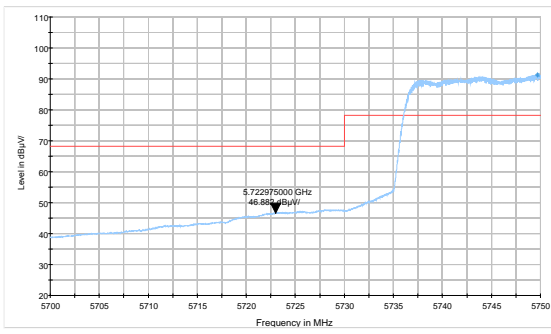
802.11n HT40-Channel 38: Peak



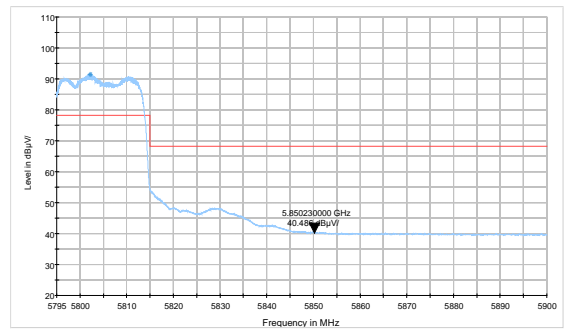
802.11n HT40-Channel 46: Peak



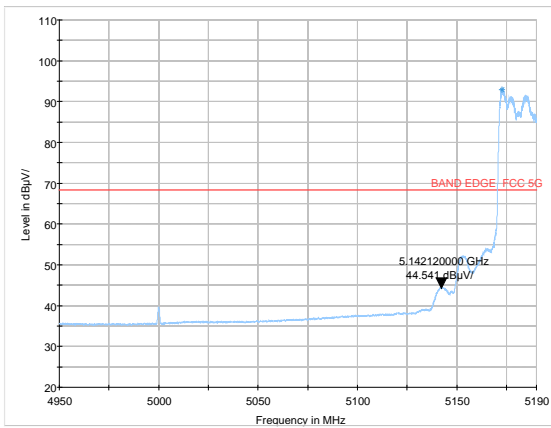
802.11n HT40-Channel 151: Peak



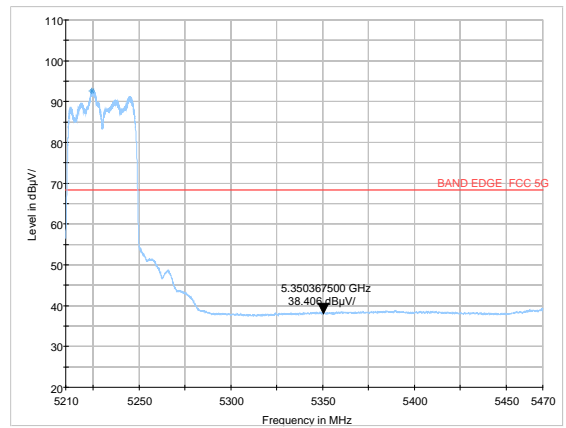
802.11n HT40-Channel 159: Peak



802.11ac HT40-Channel 38: Peak

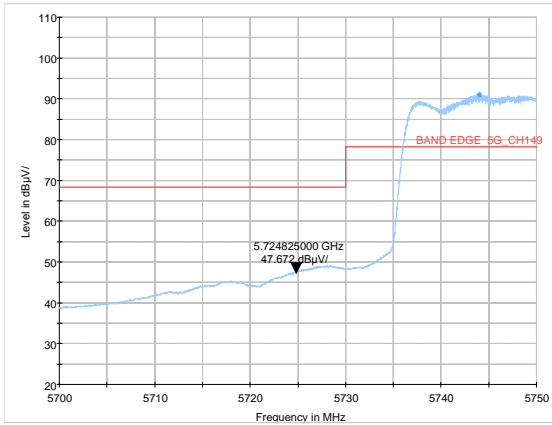


802.11ac HT40-Channel 46: Peak

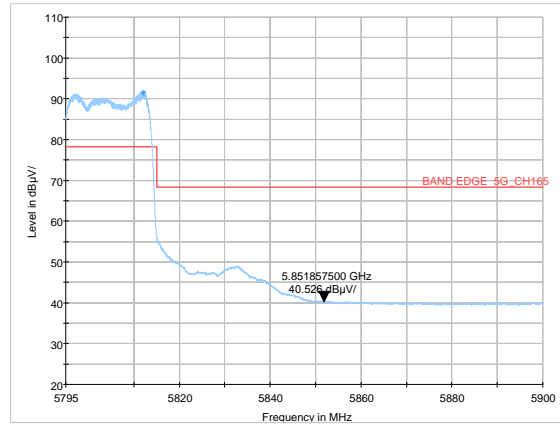




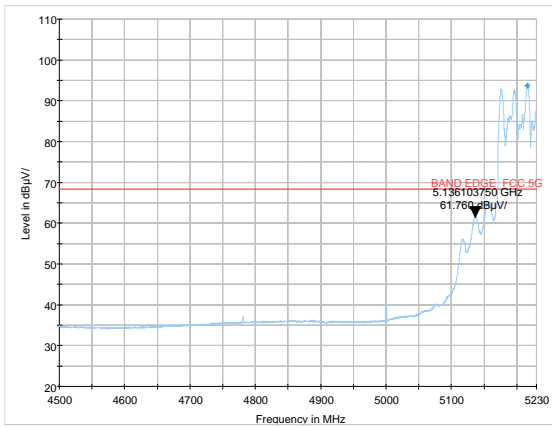
802.11ac HT40-Channel 151: Peak



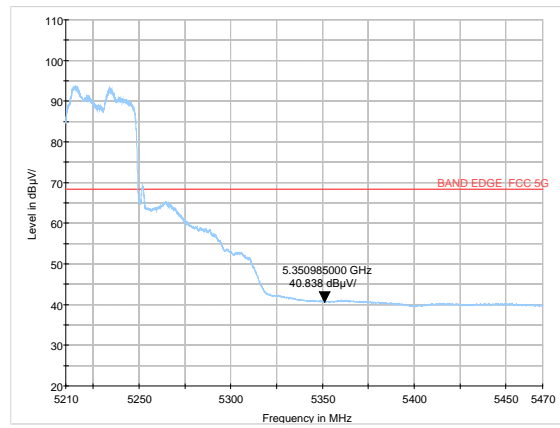
802.11ac HT40-Channel 159: Peak



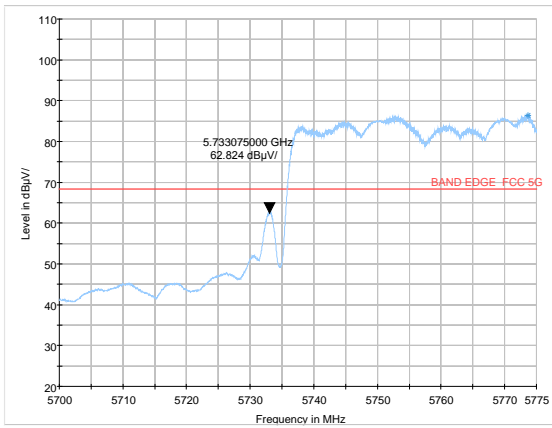
802.11ac HT80-Channel 42: Peak
5.14-5.21GHz



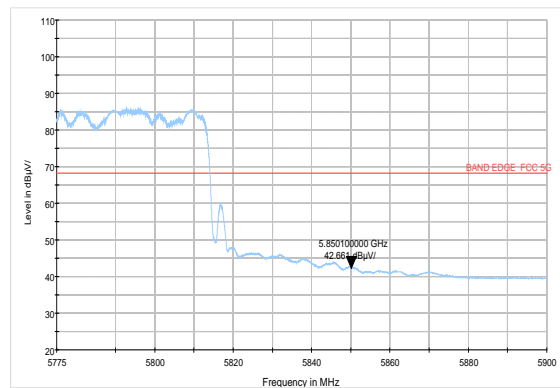
802.11ac HT80-Channel 42: Peak
5.21-5.47GHz



802.11ac HT80-Channel 155: Peak
5.7-5.775GHz



802.11ac HT80-Channel 155: Peak
5.775-5.9GHz



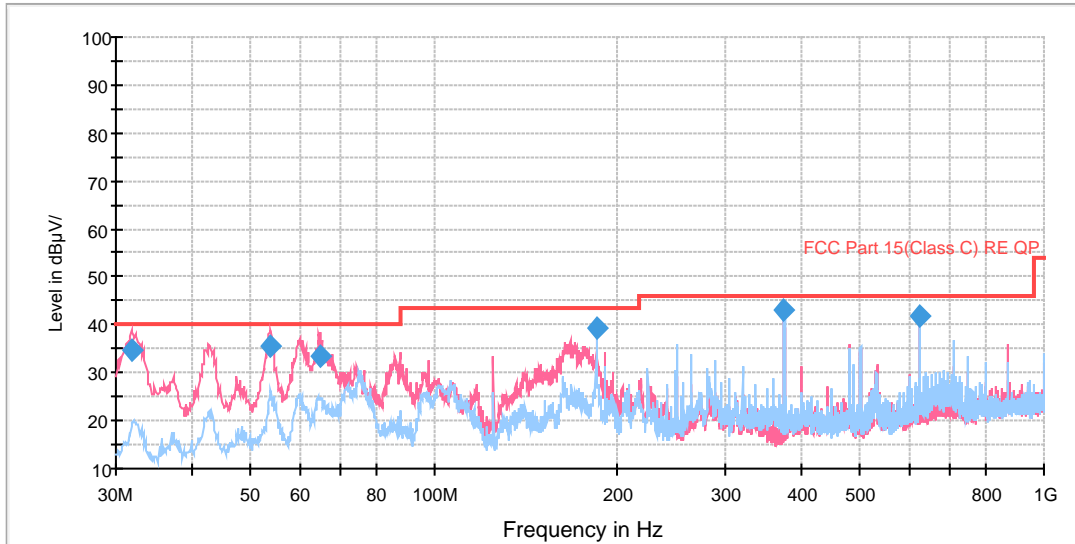
Result of RE

Test result

Sweep the whole frequency band through the range from 9kHz to the 10th harmonic of the carrier, and 9KHz-30MHz, the emissions more than 20 dB below the permissible value are not reported.

802.11a CH36

RE 30M-1GHz QP

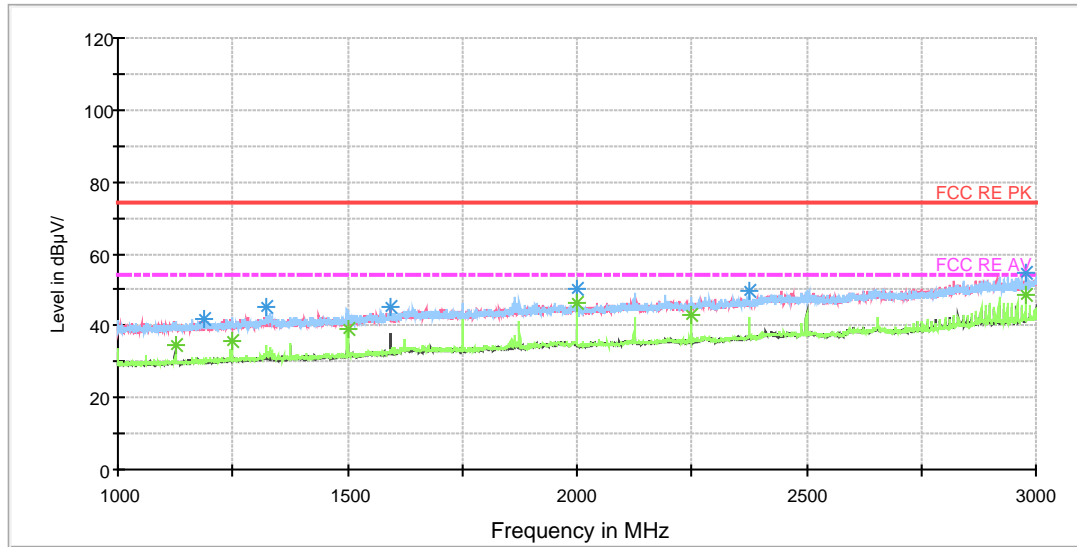


Radiates Emission from 30MHz to 1GHz

Frequency (MHz)	Quasi-Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
31.859203	34.8	100.0	V	291.0	57.3	-22.5	5.2	40.0
53.751534	35.6	100.0	V	271.0	56.4	-20.8	4.4	40.0
64.797700	33.4	100.0	V	184.0	57.1	-23.7	6.6	40.0
184.249425	39.3	120.0	H	22.0	66.9	-27.6	4.2	43.5
375.018750	43.1	100.0	H	350.0	65.0	-21.9	2.9	46.0
625.011250	42.0	120.0	H	0.0	58.7	-16.7	4.0	46.0

- Remark: 1. Quasi-Peak = Reading value + Correction factor
- 2. Correction Factor = Antenna factor+ Insertion loss(cable loss+amplifier gain)
- 3. Margin = Limit – Quasi-Peak

RE 1G-3GHz PK+AV



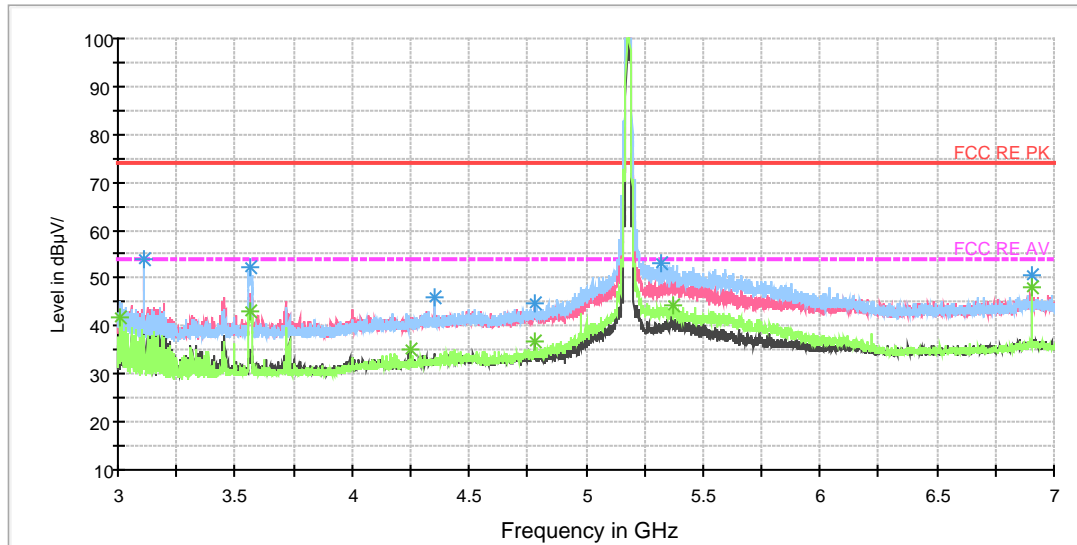
Radiates Emission from 1GHz to 3GHz

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1125.000000	41.4	101.0	V	184.0	49.8	-8.4	32.6	74
1250.000000	42.3	201.0	H	317.0	50.3	-8.0	31.7	74
1500.000000	44.3	201.0	H	299.0	51.0	-6.7	29.7	74
2000.000000	50.0	201.0	H	317.0	53.4	-3.4	24.0	74
2250.250000	48.1	201.0	H	317.0	50.4	-2.3	25.9	74
2978.250000	54.6	100.0	H	138.0	56.8	-2.2	19.4	74

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1125.000000	34.5	101.0	V	184.0	42.9	-8.4	19.5	54
1250.000000	35.8	201.0	H	317.0	43.8	-8.0	18.2	54
1500.000000	39.0	201.0	H	299.0	45.7	-6.7	15.0	54
2000.000000	46.3	201.0	H	317.0	49.7	-3.4	7.7	54
2250.250000	43.0	201.0	H	317.0	45.3	-2.3	11.0	54
2978.250000	48.4	100.0	H	138.0	50.6	2.2	5.6	54

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)



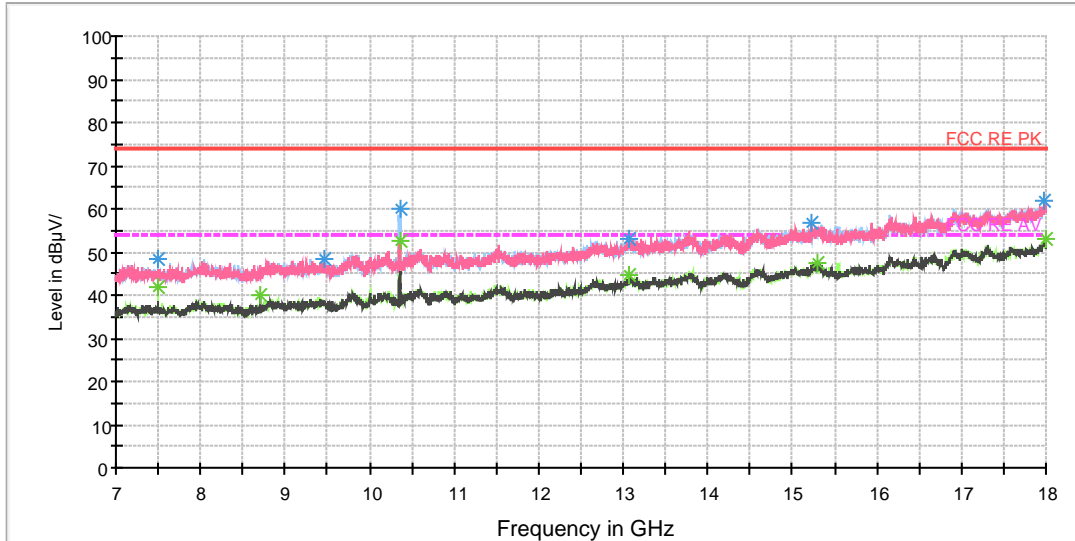
Radiates Emission from 3GHz to 7GHz

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3007.500000	45.2	100.0	H	179.0	47.2	-2.0	28.8	74
3563.500000	51.2	100.0	H	190.0	51.9	-0.7	22.8	74
4250.000000	40.7	200.0	V	173.0	42.7	-2.0	33.3	74
4781.000000	44.5	200.0	V	353.0	47.1	-2.6	29.5	74
5374.500000	50.3	100.0	H	179.0	54.0	-3.7	23.7	74
6907.000000	50.6	100.0	H	201.0	57.5	-6.9	23.4	74

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3007.500000	41.9	100.0	H	179.0	43.9	-2.0	12.1	54
3563.500000	43.3	100.0	H	190.0	44.0	-0.7	10.7	54
4250.000000	35.0	200.0	V	173.0	37.0	-2.0	19.0	54
4781.000000	37.0	200.0	V	353.0	39.6	-2.6	17.0	54
5374.500000	44.4	100.0	H	179.0	48.1	-3.7	9.6	54
6907.000000	48.0	100.0	H	201.0	54.9	-6.9	6.0	54

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)



Radiates Emission from 7GHz to 18GHz

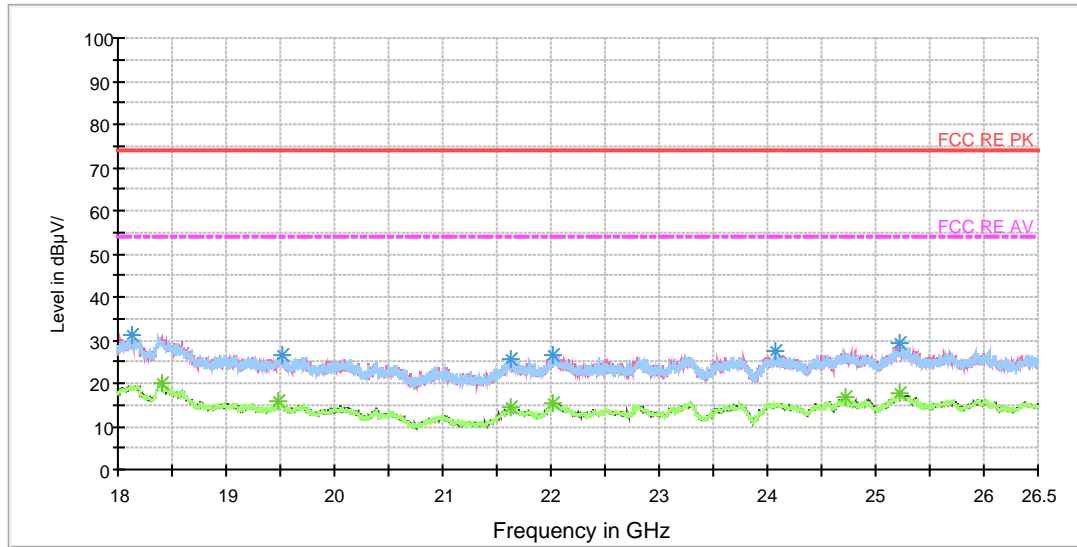
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
7499.125000	48.3	201.0	H	342.0	56.0	-7.7	25.7	74
9469.500000	48.3	201.0	H	335.0	59.1	-10.8	25.7	74
10361.875000	60.0	201.0	H	359.0	71.6	-11.6	14.0	74
13076.125000	53.2	201.0	V	204.0	69.4	-16.2	20.8	74
15222.500000	56.7	201.0	V	137.0	76.5	-19.8	17.3	74
17984.875000	61.8	201.0	H	181.0	87.0	-25.2	12.2	74

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
7499.125000	41.7	201.0	H	342.0	49.4	-7.7	12.3	54
8709.125000	39.9	201.0	V	0.0	48.7	-8.8	14.1	54
10357.750000	52.4	201.0	H	359.0	63.9	-11.5	1.6	54
13069.250000	44.7	201.0	V	78.0	60.9	-16.2	9.3	54
15296.750000	47.5	201.0	H	273.0	67.1	-19.6	6.5	54
17991.750000	52.8	201.0	H	251.0	78.1	-25.3	1.2	54

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

RE 18-26.5GHz PK+AV



Radiates Emission from 18GHz to 26.5GHz

Frequency (MHz)	Peak (dBuV/m)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
18126.437500	31.2	V	210.0	36.1	-4.9	42.8	74
19525.750000	26.3	V	256.0	33.7	-7.4	47.7	74
21625.250000	25.4	V	293.0	34.5	-9.1	48.6	74
22024.750000	26.6	H	97.0	34.6	-8.0	47.4	74
24081.750000	27.5	V	87.0	35.3	-7.8	46.5	74
25228.187500	29.4	V	15.0	35.3	-5.9	44.6	74

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

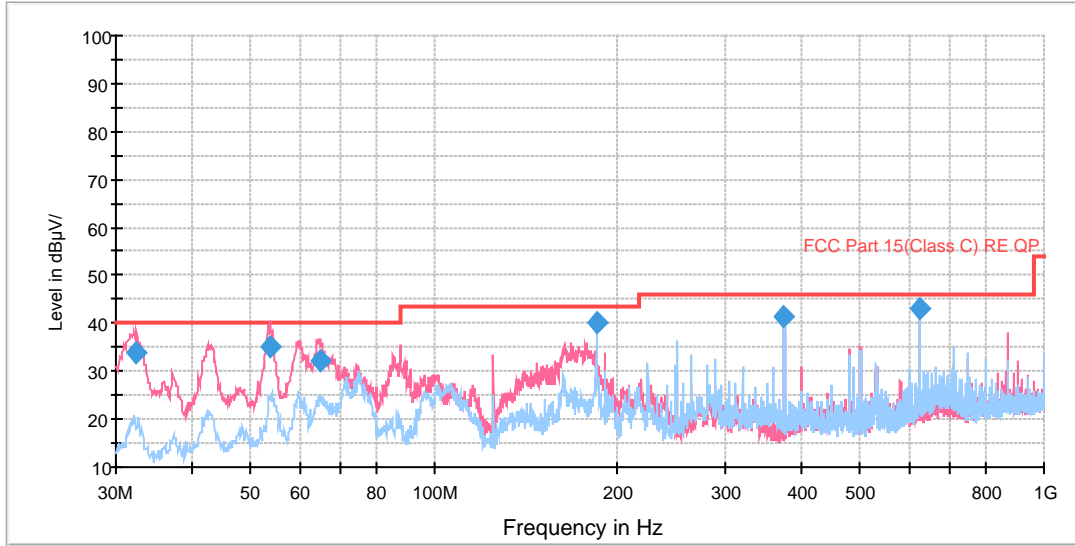
Frequency (MHz)	Average (dBuV/m)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
18399.500000	20.0	V	300.0	24.9	-4.9	34.0	54
19490.687500	15.9	H	67.0	23.5	-7.6	38.1	54
21638.000000	14.3	V	300.0	23.4	-9.1	39.7	54
22024.750000	15.3	V	194.0	23.3	-8.0	38.7	54
24725.625000	16.6	H	0.0	22.8	-6.2	37.4	54
25229.250000	17.8	V	263.0	23.7	-5.9	36.2	54

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)



802.11a CH40

RE 30M-1GHz QP

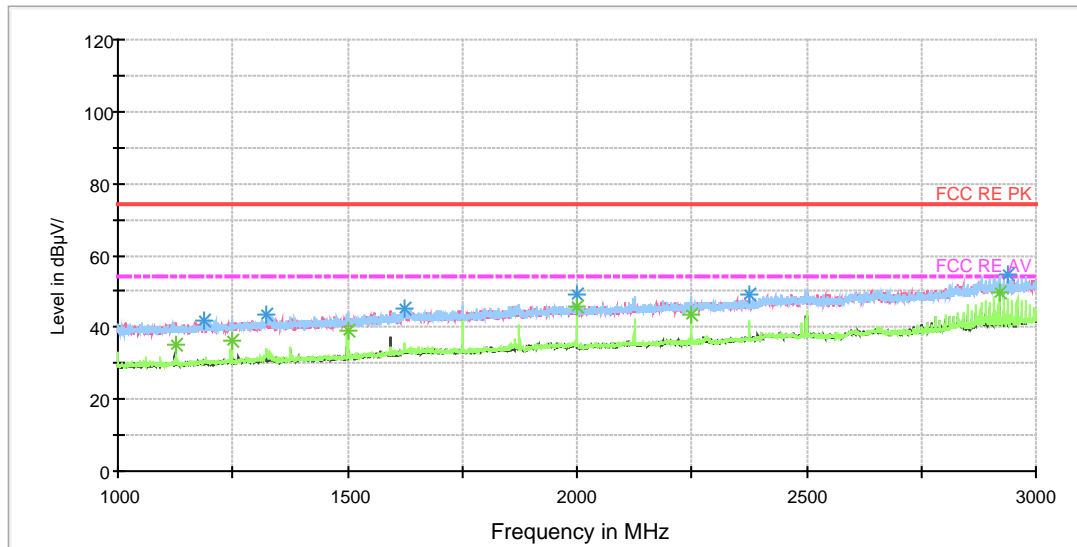


Radiates Emission from 30MHz to 1GHz

Frequency (MHz)	Quasi-Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
32.343938	33.7	100.0	V	308.0	56.3	-22.6	6.3	40.0
53.670588	35.0	121.0	V	301.0	55.8	-20.8	5.0	40.0
64.837700	32.3	100.0	V	153.0	56.0	-23.7	7.7	40.0
184.249425	40.1	120.0	H	22.0	67.7	-27.6	3.4	43.5
375.018750	41.2	100.0	H	143.0	63.1	-21.9	4.8	46.0
625.011250	43.3	120.0	H	22.0	60.0	-16.7	2.7	46.0

- Remark: 1. Quasi-Peak = Reading value + Correction factor
 2. Correction Factor = Antenna factor+ Insertion loss(cable loss+amplifier gain)
 3. Margin = Limit – Quasi-Peak

RE 1G-3GHz PK+AV



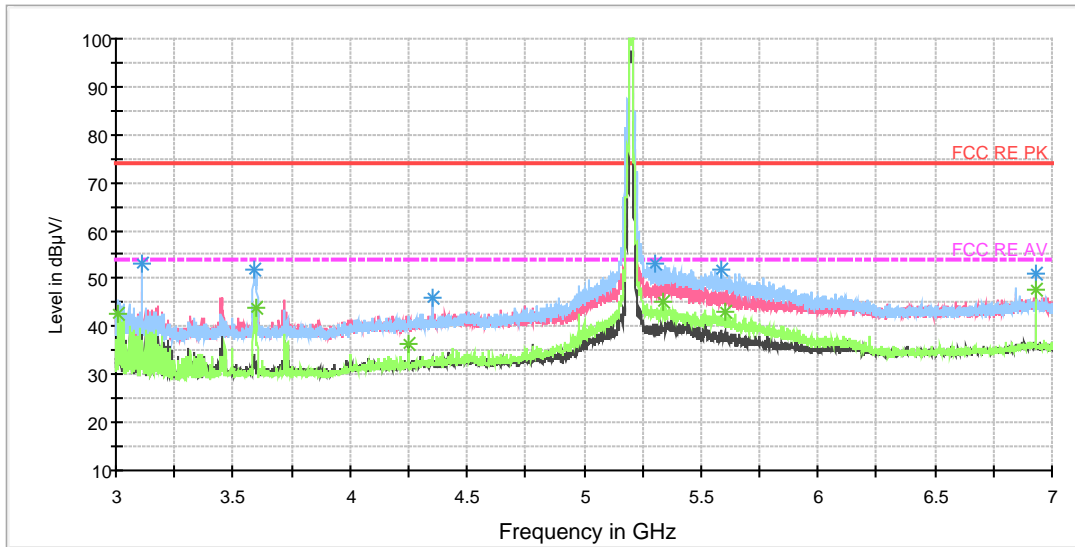
Radiates Emission from 1GHz to 3GHz

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1125.000000	40.3	100.0	V	182.0	48.7	-8.4	33.7	74
1249.750000	42.1	201.0	H	319.0	50.1	-8.0	31.9	74
1500.000000	43.7	201.0	H	266.0	50.4	-6.7	30.3	74
2000.000000	48.7	201.0	H	319.0	52.1	-3.4	25.3	74
2250.000000	47.7	201.0	H	311.0	50.0	-2.3	26.3	74
2919.500000	54.3	99.0	H	138.0	56.1	-1.8	19.7	74

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1125.000000	35.4	100.0	V	182.0	43.8	-8.4	18.6	54
1249.750000	36.2	201.0	H	319.0	44.2	-8.0	17.8	54
1500.000000	38.9	201.0	H	266.0	45.6	-6.7	15.1	54
2000.000000	45.7	201.0	H	319.0	49.1	-3.4	8.3	54
2250.000000	43.6	201.0	H	311.0	45.9	-2.3	10.4	54
2919.500000	49.4	99.0	H	138.0	51.2	-1.8	4.6	54

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)



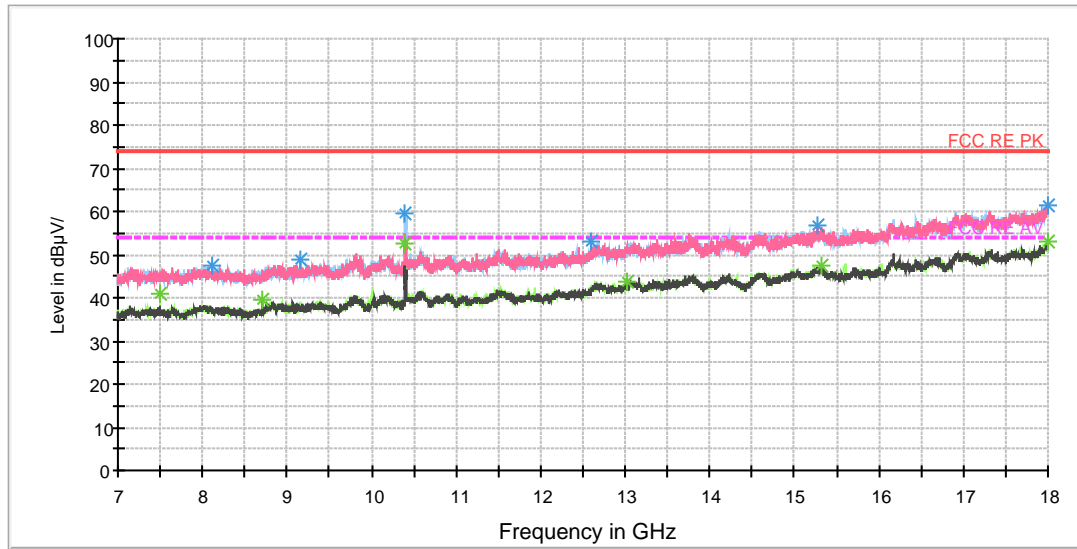
Radiates Emission from 3GHz to 7GHz

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3007.500000	45.4	100.0	H	168.0	47.4	-2.0	28.6	74
3595.500000	50.1	100.0	H	190.0	51.0	-0.9	23.9	74
4250.000000	41.2	200.0	V	191.0	43.2	-2.0	32.8	74
5338.000000	50.7	100.0	H	157.0	54.5	-3.8	23.3	74
5600.500000	49.3	100.0	H	179.0	54.1	-4.8	24.7	74
6933.500000	50.9	100.0	H	190.0	57.7	-6.8	23.1	74

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3007.500000	42.7	100.0	H	168.0	44.7	-2.0	11.3	54
3595.500000	44.1	100.0	H	190.0	45.0	-0.9	9.9	54
4250.000000	36.2	200.0	V	191.0	38.2	2.0	17.8	54
5338.000000	45.2	100.0	H	157.0	49.0	-3.8	8.8	54
5600.500000	43.1	100.0	H	179.0	47.9	-4.8	10.9	54
6933.500000	47.6	100.0	H	190.0	54.4	-6.8	6.4	54

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)



Radiates Emission from 7GHz to 18GHz

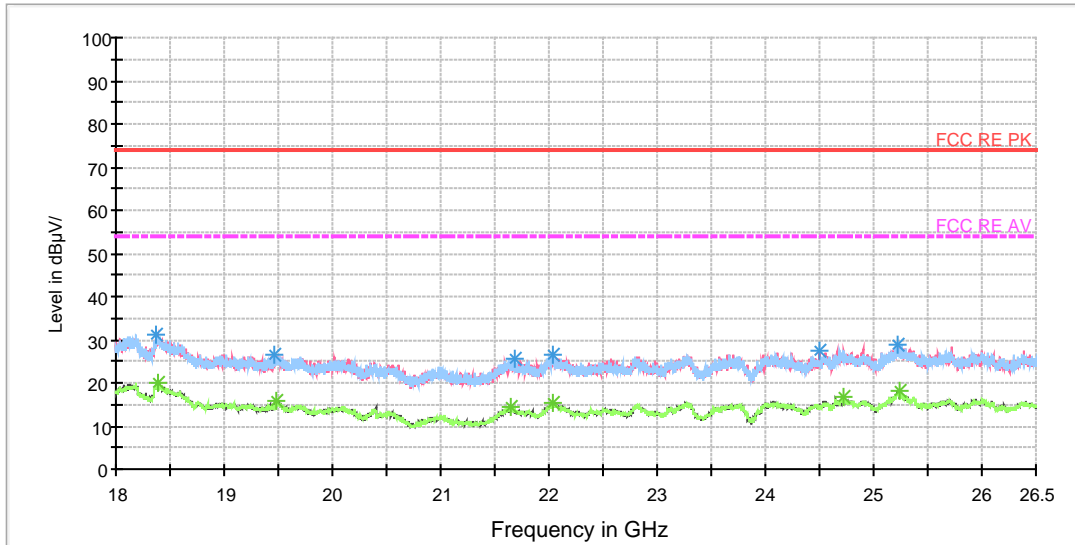
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
8116.500000	47.6	201.0	V	90.0	56.5	-8.9	26.4	74
9154.625000	48.7	201.0	V	150.0	58.4	-9.7	25.3	74
10400.375000	59.6	201.0	H	0.0	71.5	-11.9	14.4	74
12605.875000	53.1	201.0	H	249.0	67.8	-14.7	20.9	74
15263.750000	56.5	201.0	V	7.0	76.2	-19.7	17.5	74
17994.500000	61.6	201.0	H	225.0	86.9	-25.3	12.4	74

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
7499.125000	40.9	201.0	H	88.0	48.6	-7.7	13.1	54
8709.125000	39.5	201.0	V	351.0	48.3	-8.8	14.5	54
10400.375000	52.7	201.0	H	0.0	64.6	-11.9	1.3	54
13019.750000	43.9	201.0	H	320.0	60.1	-16.2	10.1	54
15318.750000	47.6	201.0	H	320.0	67.0	-19.4	6.4	54
18000.000000	53.2	201.0	H	127.0	78.6	-25.4	0.8	54

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

RE 18-26.5GHz PK+AV



Radiates Emission from 18GHz to 26.5GHz

Frequency (MHz)	Peak (dBuV/m)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
18374.000000	31.2	V	248.0	35.9	-4.7	42.8	74
19463.062500	26.7	H	127.0	34.9	-8.2	47.3	74
21692.187500	25.8	H	96.0	35.1	-9.3	48.2	74
22033.250000	26.5	V	150.0	34.5	-8.0	47.5	74
24498.250000	27.5	V	89.0	35.6	-8.1	46.5	74
25214.375000	28.9	V	285.0	35.0	-6.1	45.1	74

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

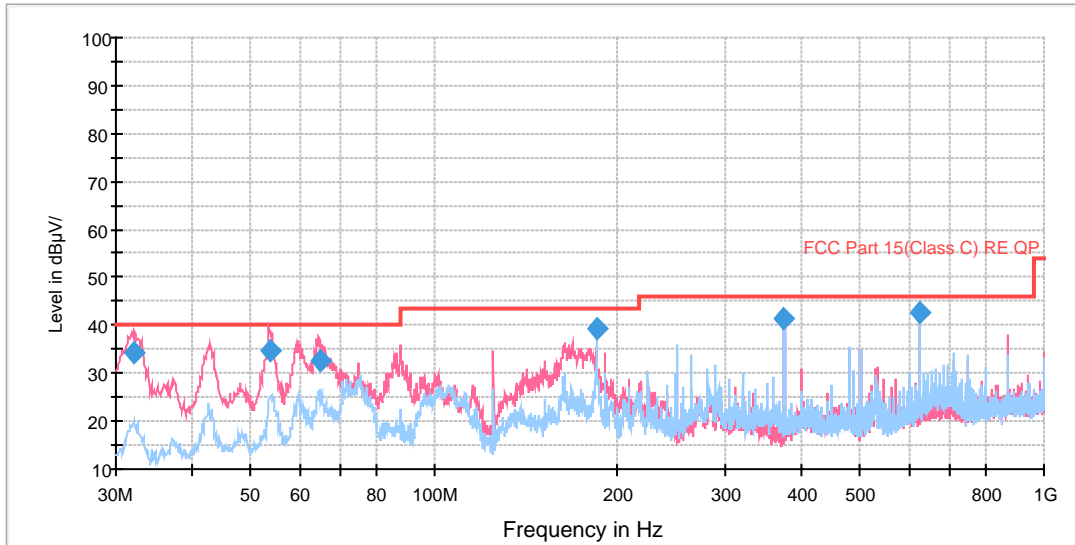
Frequency (MHz)	Average (dBuV/m)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
18383.562500	20.2	H	111.0	25.0	-4.8	33.8	54
19480.062500	15.7	H	134.0	23.5	-7.8	38.3	54
21649.687500	14.5	V	172.0	23.7	-9.2	39.5	54
22032.187500	15.5	H	62.0	23.5	-8.0	38.5	54
24723.500000	16.6	H	218.0	22.8	-6.2	37.4	54
25232.437500	18.1	V	241.0	24.0	-5.9	35.9	54

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)



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RE 30M-1GHz QP

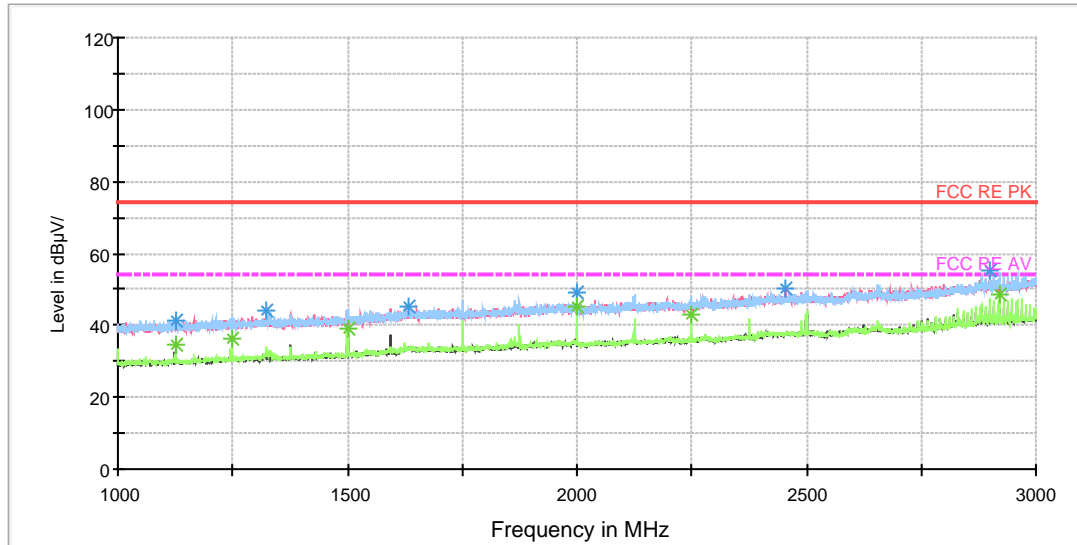


Radiates Emission from 30MHz to 1GHz

Frequency (MHz)	Quasi-Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
32.102044	34.3	101.0	V	270.0	56.8	-22.5	5.7	40.0
53.656306	34.8	121.0	V	287.0	55.6	-20.8	5.2	40.0
64.715806	32.6	101.0	V	189.0	56.3	-23.7	7.4	40.0
184.249425	39.4	123.0	H	31.0	67.0	-27.6	4.1	43.5
375.018750	41.6	126.0	V	333.0	63.5	-21.9	4.4	46.0
625.011250	42.7	122.0	H	24.0	59.4	-16.7	3.3	46.0

- Remark: 1. Quasi-Peak = Reading value + Correction factor
 2. Correction Factor = Antenna factor+ Insertion loss(cable loss+amplifier gain)
 3. Margin = Limit – Quasi-Peak

RE 1G-3GHz PK+AV



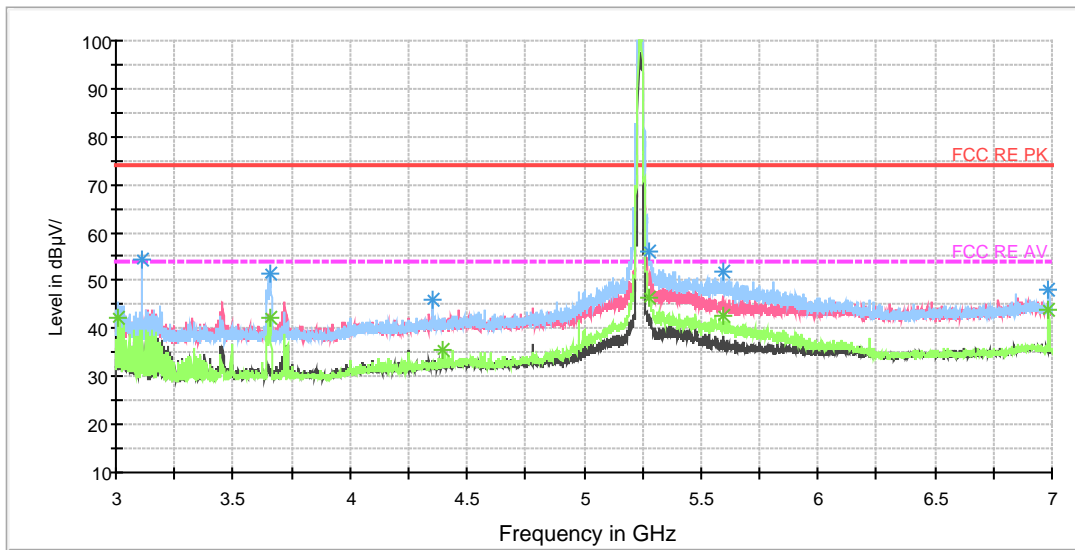
Radiates Emission from 1GHz to 3GHz

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1173.500000	41.7	201.0	H	253.0	49.8	-8.1	32.3	74
1375.000000	43.2	201.0	H	64.0	50.3	-7.1	30.8	74
1701.750000	44.1	201.0	H	87.0	49.0	-4.9	29.9	74
2000.000000	49.5	201.0	H	316.0	52.9	-3.4	24.5	74
2125.250000	50.0	201.0	H	322.0	52.3	-2.3	24.0	74
2978.500000	53.3	201.0	H	143.0	55.5	-2.2	20.7	74

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1124.750000	34.6	101.0	V	173.0	43.0	-8.4	19.4	54
1250.000000	36.3	201.0	H	301.0	44.3	-8.0	17.7	54
1500.000000	38.9	201.0	H	255.0	45.6	-6.7	15.1	54
1999.750000	45.4	201.0	H	318.0	48.8	-3.4	8.6	54
2250.000000	43.2	201.0	H	327.0	45.5	-2.3	10.8	54
2919.250000	48.5	101.0	H	130.0	50.3	1.8	5.5	54

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)



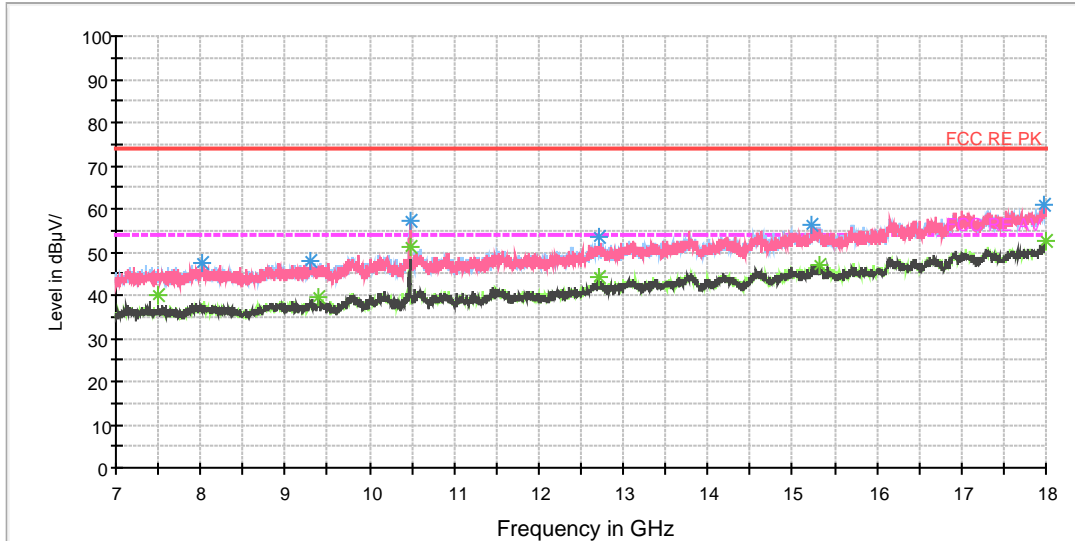
Radiates Emission from 3GHz to 7GHz

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3007.500000	44.9	99.0	H	130.0	46.9	-2.0	29.1	74
3657.500000	51.5	99.0	H	193.0	52.0	-0.5	22.5	74
4398.500000	42.4	99.0	H	193.0	44.4	-2.0	31.6	74
5279.000000	55.3	99.0	H	172.0	59.1	-3.8	18.7	74
5594.000000	49.2	99.0	H	183.0	54.0	-4.8	24.8	74
6987.000000	48.3	99.0	H	183.0	54.8	-6.5	25.7	74

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3007.500000	42.2	99.0	H	130.0	44.2	-2.0	11.8	54
3657.500000	42.2	99.0	H	193.0	42.7	-0.5	11.8	54
4398.500000	35.6	99.0	H	193.0	37.6	-2.0	18.4	54
5279.000000	46.5	99.0	H	172.0	50.3	-3.8	7.5	54
5594.000000	42.7	99.0	H	183.0	47.5	-4.8	11.3	54
6987.000000	44.0	99.0	H	183.0	50.5	-6.5	10.0	54

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)



Radiates Emission from 7GHz to 18GHz

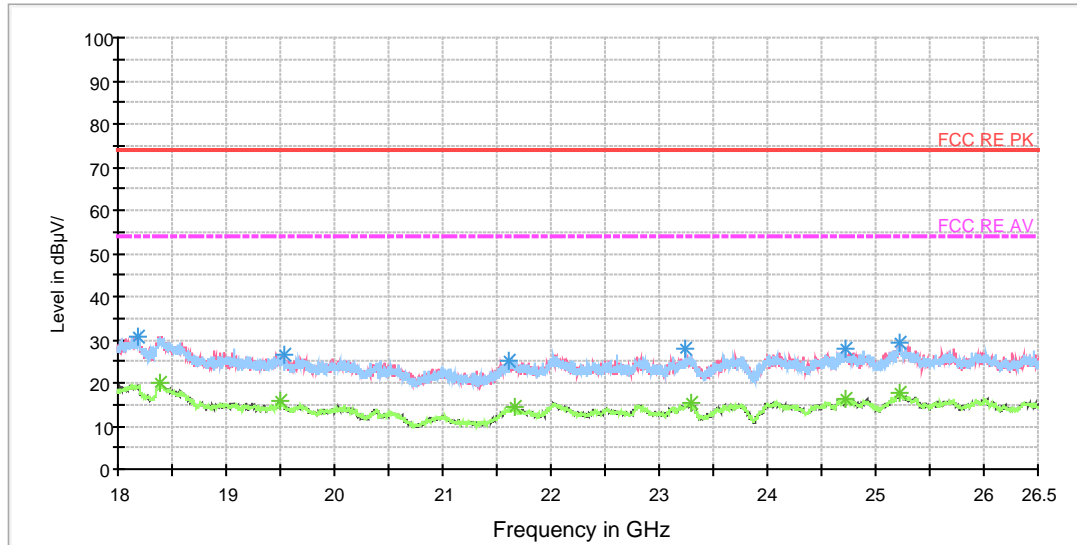
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
8023.000000	47.5	201.0	H	331.0	56.1	-8.6	26.5	74
9289.375000	47.7	201.0	V	338.0	58.1	-10.4	26.3	74
10482.875000	57.0	201.0	V	349.0	69.6	-12.6	17.0	74
12710.375000	53.3	201.0	V	313.0	68.4	-15.1	20.7	74
15230.750000	56.2	201.0	V	270.0	75.9	-19.7	17.8	74
17972.500000	60.9	201.0	H	0.0	86.0	-25.1	13.1	74

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
7499.125000	40.2	201.0	H	315.0	47.9	-7.7	13.8	54
9404.875000	39.4	201.0	V	270.0	50.4	-11.0	14.6	54
10480.125000	51.0	201.0	H	331.0	63.5	-12.5	3.0	54
12709.000000	44.2	201.0	V	270.0	59.3	-15.1	9.8	54
15311.875000	47.0	201.0	H	354.0	66.5	-19.5	7.0	54
18000.000000	52.4	201.0	H	0.0	77.8	-25.4	1.6	54

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

RE 18-26.5GHz PK+AV



Radiates Emission from 18GHz to 26.5GHz

Frequency (MHz)	Peak (dBuV/m)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
18185.937500	30.9	V	300.0	35.8	-4.9	43.1	74
19531.062500	26.7	V	196.0	34.1	-7.4	47.3	74
21617.812500	25.2	H	120.0	34.2	-9.0	48.8	74
23249.812500	27.8	H	25.0	35.3	-7.5	46.2	74
24719.250000	27.7	H	244.0	34.0	-6.3	46.3	74
25222.875000	29.4	H	219.0	35.3	-5.9	44.6	74

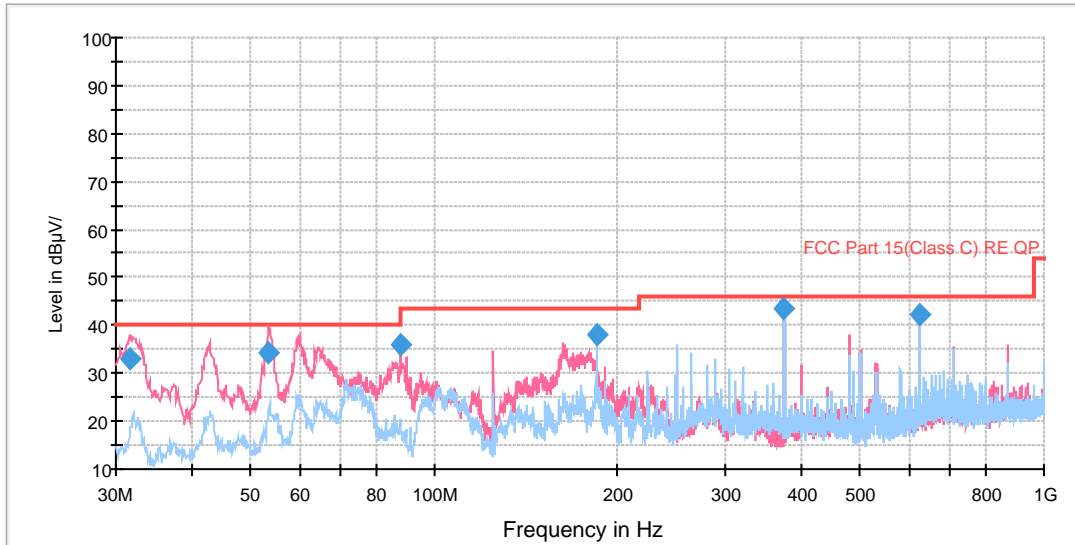
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
18392.062500	20.1	H	46.0	25.0	-4.9	33.9	54
19494.937500	15.6	V	294.0	23.2	-7.6	38.4	54
21659.250000	14.6	H	0.0	23.8	-9.2	39.4	54
23293.375000	15.4	V	286.0	22.4	-7.0	38.6	54
24720.312500	16.5	V	300.0	22.8	-6.3	37.5	54
25225.000000	17.9	V	233.0	23.8	-5.9	36.1	54

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

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RE 30M-1GHz QP

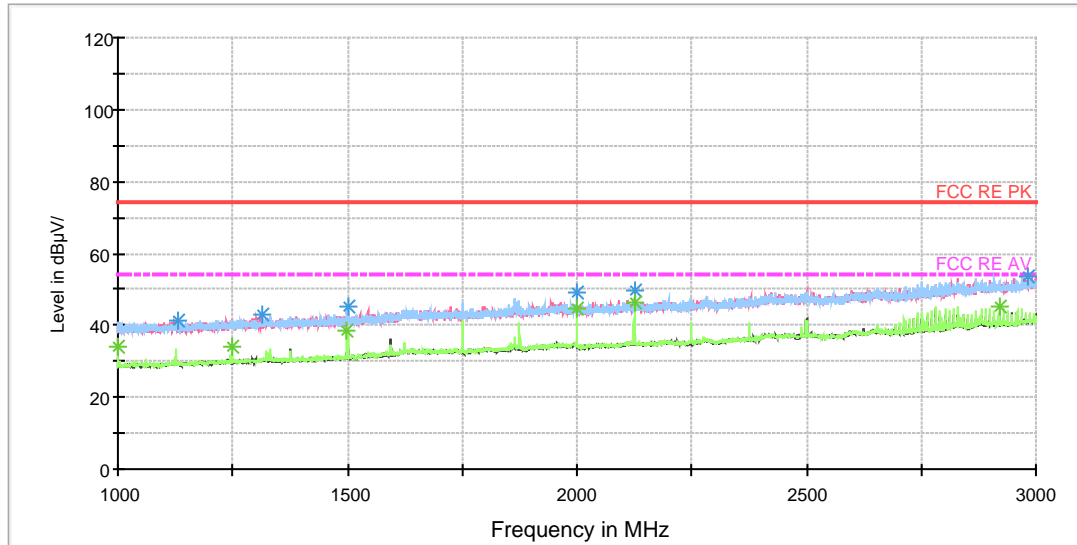


Radiates Emission from 30MHz to 1GHz

Frequency (MHz)	Quasi-Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
31.655191	33.1	100.0	V	306.0	55.6	-22.5	6.9	40.0
53.534753	34.4	121.0	V	284.0	55.2	-20.8	5.6	40.0
87.897606	36.1	120.0	V	40.0	63.3	-27.2	3.9	40.0
184.249425	38.0	121.0	H	25.0	65.6	-27.6	5.5	43.5
375.018750	43.4	100.0	H	348.0	65.3	-21.9	2.6	46.0
625.012500	42.0	100.0	V	105.0	58.7	-16.7	4.0	46.0

- Remark: 1. Quasi-Peak = Reading value + Correction factor
 2. Correction Factor = Antenna factor+ Insertion loss(cable loss+amplifier gain)
 3. Margin = Limit – Quasi-Peak

RE 1G-3GHz PK+AV



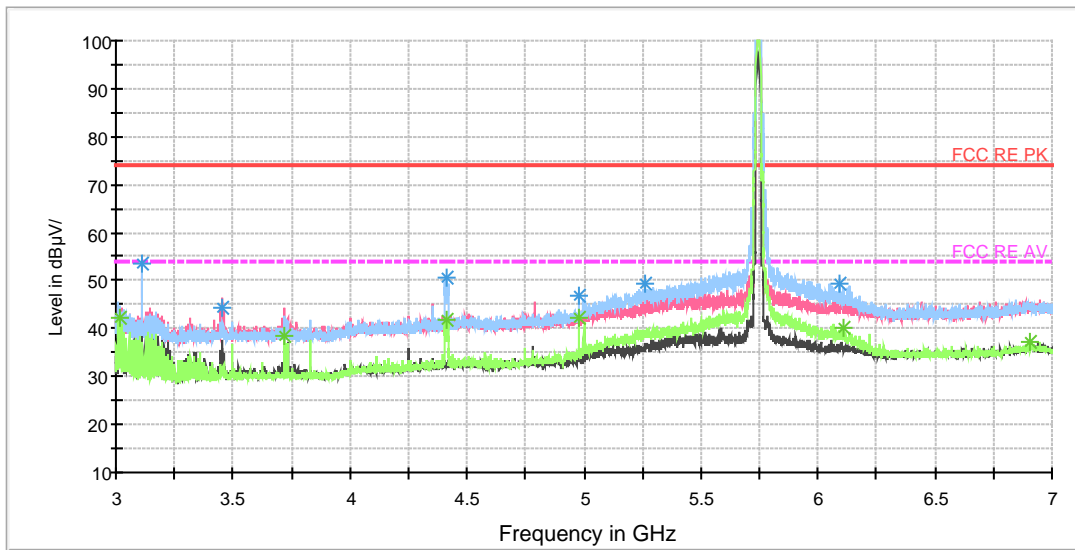
Radiates Emission from 1GHz to 3GHz

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1129.750000	41.3	201.0	H	0.0	49.6	-8.3	32.7	74
1314.500000	42.7	201.0	H	238.0	50.2	-7.5	31.3	74
1500.000000	45.4	201.0	H	250.0	52.1	-6.7	28.6	74
2000.000000	48.9	201.0	H	324.0	52.3	-3.4	25.1	74
2125.250000	49.9	201.0	H	324.0	52.2	-2.3	24.1	74
2981.250000	53.5	201.0	H	119.0	55.7	-2.2	20.5	74

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1000.250000	34.0	201.0	H	324.0	43.2	-9.2	20.0	54
1250.000000	34.1	201.0	H	310.0	42.1	-8.0	19.9	54
1499.750000	38.5	201.0	H	257.0	45.2	-6.7	15.5	54
2000.000000	44.5	201.0	H	324.0	47.9	-3.4	9.5	54
2125.000000	46.2	201.0	H	317.0	48.5	-2.3	7.8	54
2919.750000	45.4	201.0	H	144.0	47.2	-1.8	8.6	54

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)



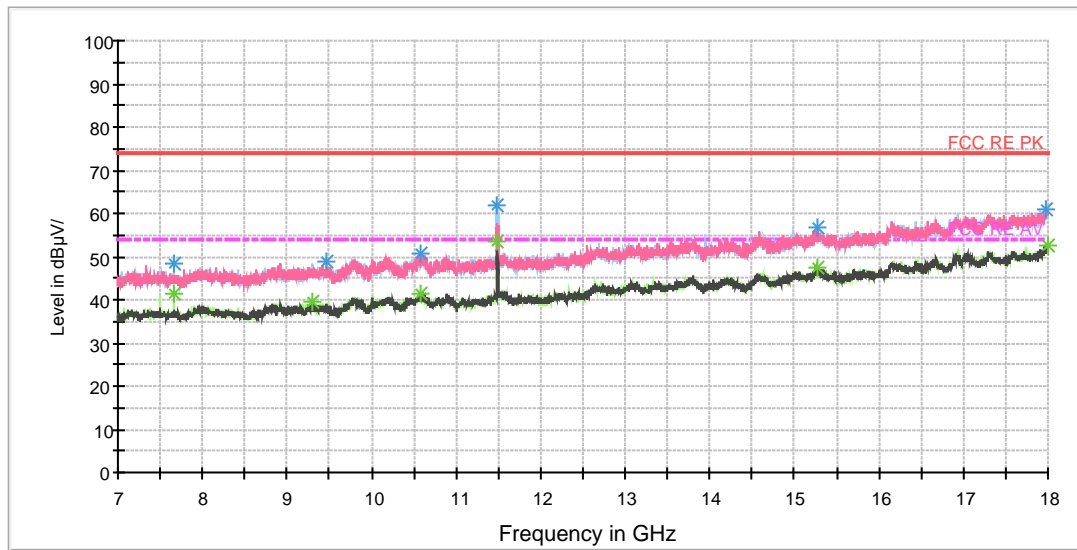
Radiates Emission from 3GHz to 7GHz

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3017.000000	44.7	101.0	H	171.0	46.6	-1.9	29.3	74
3718.500000	42.7	101.0	H	238.0	43.0	-0.3	31.3	74
4417.500000	49.2	101.0	H	171.0	51.3	-2.1	24.8	74
4976.500000	46.6	101.0	H	238.0	49.6	-3.0	27.4	74
6108.000000	45.3	101.0	H	159.0	51.3	-6.0	28.7	74
6903.500000	43.7	200.0	V	17.0	50.7	-7.0	30.3	74

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3017.000000	42.0	101.0	H	171.0	43.9	-1.9	12.0	54
3718.500000	38.3	101.0	H	238.0	38.6	-0.3	15.7	54
4417.500000	41.7	101.0	H	171.0	43.8	-2.1	12.3	54
4976.500000	42.0	101.0	H	238.0	45.0	-3.0	12.0	54
6108.000000	40.2	101.0	H	159.0	46.2	-6.0	13.8	54
6903.500000	37.4	200.0	V	17.0	44.4	-7.0	16.6	54

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)



Radiates Emission from 7GHz to 18GHz

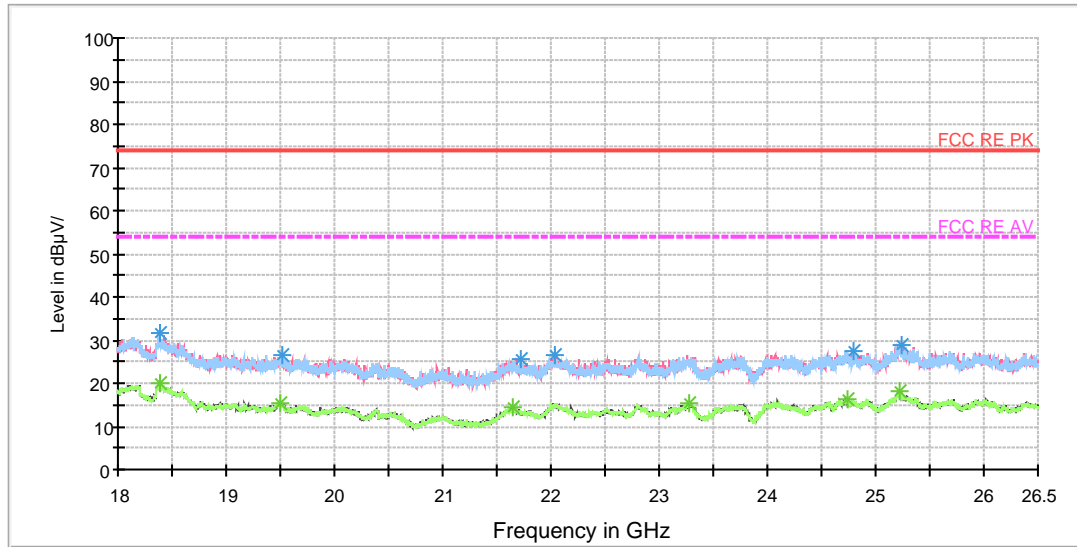
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
7658.625000	48.6	201.0	H	38.0	56.9	-8.3	25.4	74
9465.375000	48.7	201.0	H	210.0	59.5	-10.8	25.3	74
10572.250000	50.6	201.0	H	132.0	64.0	-13.4	23.4	74
11488.000000	61.7	201.0	H	308.0	75.6	-13.9	12.3	74
15284.375000	56.7	201.0	V	128.0	76.3	-19.6	17.3	74
17980.750000	61.1	201.0	H	288.0	86.3	-25.2	12.9	74

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
7660.000000	41.4	201.0	H	27.0	49.7	-8.3	12.6	54
9300.375000	39.3	201.0	H	203.0	49.8	-10.5	14.7	54
10586.000000	41.3	201.0	V	45.0	54.8	-13.5	12.7	54
11492.125000	53.6	201.0	H	308.0	67.5	-13.9	0.4	54
15284.375000	47.4	201.0	V	128.0	67.0	-19.6	6.6	54
17997.250000	52.6	201.0	V	204.0	78.0	-25.4	1.4	54

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

RE 18-26.5GHz PK+AV



Radiates Emission from 18GHz to 26.5GHz

Frequency (MHz)	Peak (dBuV/m)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
18386.750000	31.4	V	127.0	36.2	-4.8	42.6	74
19509.812500	26.4	H	11.0	33.9	-7.5	47.6	74
21714.500000	25.5	V	262.0	35.0	-9.5	48.5	74
22027.937500	26.7	V	239.0	34.6	-7.9	47.3	74
24796.812500	27.3	H	18.0	33.9	-6.6	46.7	74
25238.812500	28.7	V	299.0	34.9	-6.2	45.3	74

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

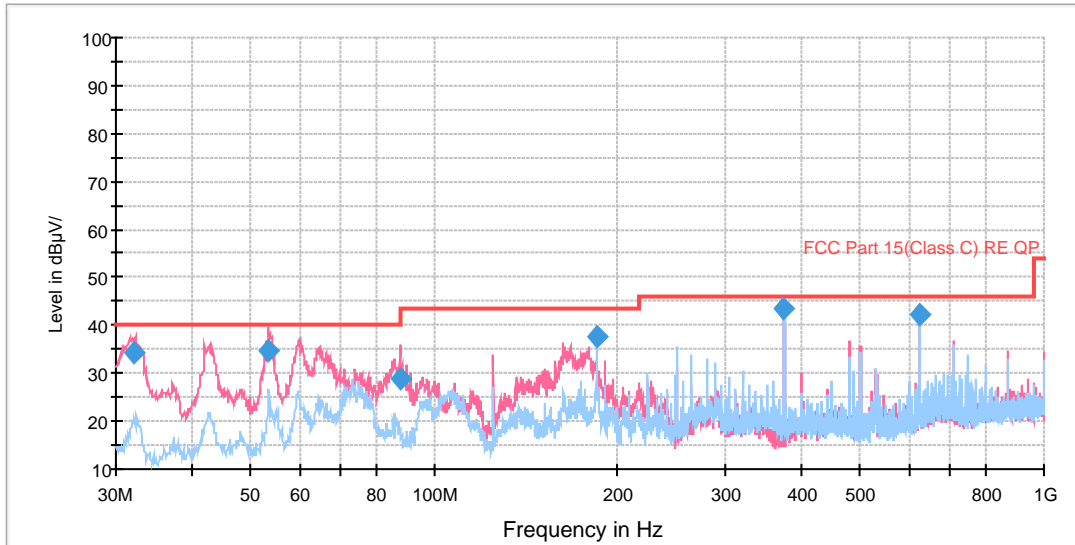
Frequency (MHz)	Average (dBuV/m)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
18393.125000	20.0	H	123.0	24.9	-4.9	34.0	54
19491.750000	15.5	V	299.0	23.1	-7.6	38.5	54
21650.750000	14.2	H	138.0	23.4	-9.2	39.8	54
23283.812500	15.5	V	276.0	22.6	-7.1	38.5	54
24735.187500	16.3	V	180.0	22.6	-6.3	37.7	54
25230.312500	18.0	H	40.0	23.9	-5.9	36.0	54

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)



802.11a CH157

RE 30M-1GHz QP



Radiates Emission from 30MHz to 1GHz

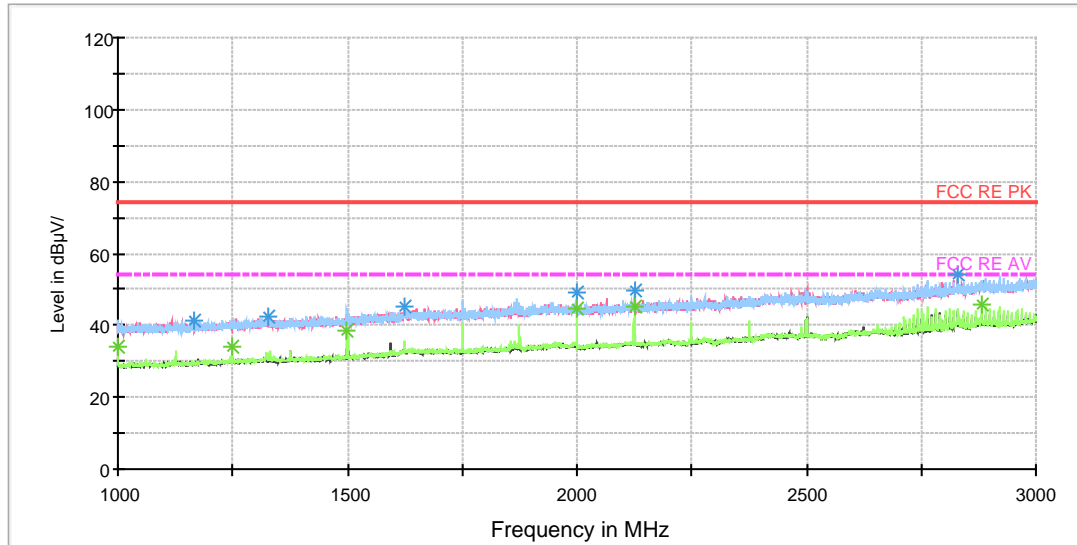
Frequency (MHz)	Quasi-Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
32.141097	34.3	100.0	V	297.0	56.8	-22.5	5.7	40.0
53.534753	34.9	100.0	V	288.0	55.7	-20.8	5.1	40.0
88.016660	28.8	125.0	V	74.0	56.0	-27.2	14.7	43.5
184.249425	37.8	100.0	V	237.0	65.4	-27.6	5.7	43.5
375.018750	43.5	100.0	H	348.0	65.4	-21.9	2.5	46.0
625.012500	42.1	100.0	V	103.0	58.8	-16.7	3.9	46.0

Remark: 1. Quasi-Peak = Reading value + Correction factor

2. Correction Factor = Antenna factor+ Insertion loss(cable loss+amplifier gain)

3. Margin = Limit – Quasi-Peak

RE 1G-3GHz PK+AV



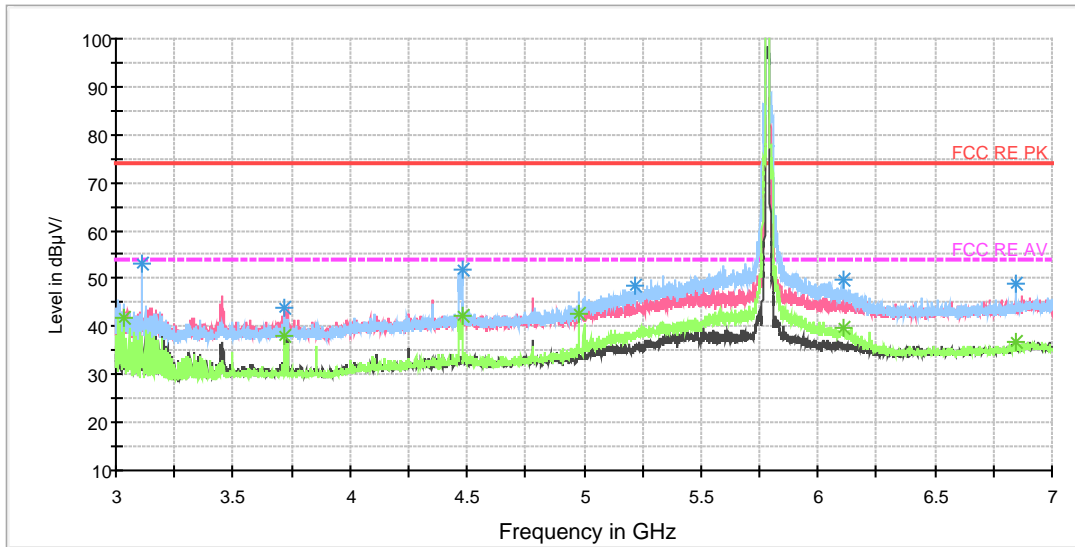
Radiates Emission from 1GHz to 3GHz

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1167.000000	41.4	201.0	H	50.0	49.6	-8.2	32.6	74
1328.250000	42.6	201.0	H	324.0	50.0	-7.4	31.4	74
1624.750000	45.1	201.0	H	278.0	49.9	-4.8	28.9	74
1999.750000	49.1	201.0	H	324.0	52.5	-3.4	24.9	74
2125.000000	49.6	201.0	H	317.0	51.9	-2.3	24.4	74
2831.250000	54.4	201.0	H	134.0	56.0	1.6	19.6	74

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1000.000000	34.1	201.0	H	331.0	43.3	-9.2	19.9	54
1249.750000	34.0	201.0	H	284.0	42.0	-8.0	20.0	54
1499.750000	38.5	201.0	H	240.0	45.2	-6.7	15.5	54
2000.000000	44.8	201.0	H	317.0	48.2	-3.4	9.2	54
2125.000000	45.4	201.0	H	317.0	47.7	-2.3	8.6	54
2880.250000	45.8	201.0	H	147.0	48.1	-2.3	8.2	54

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)



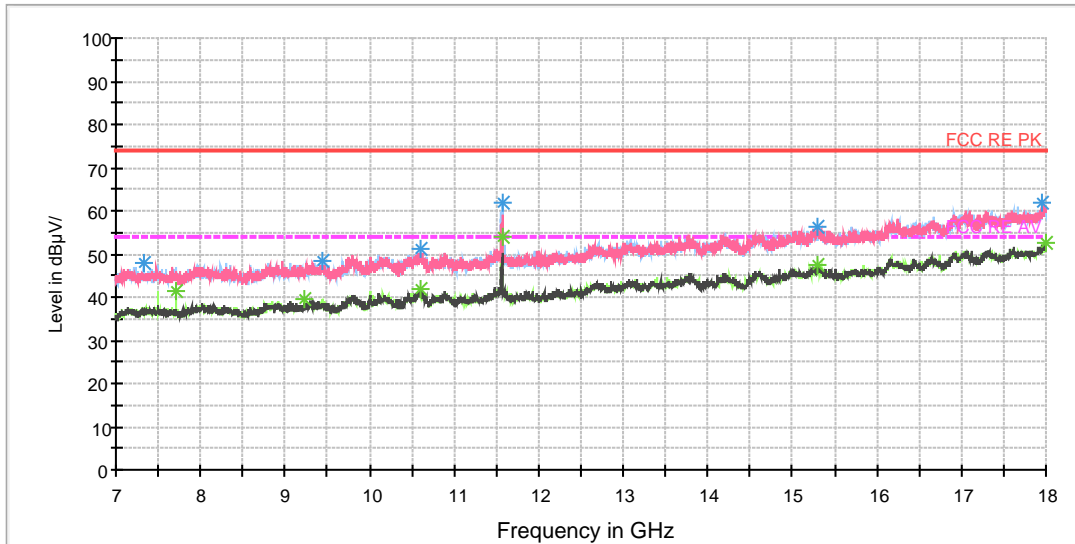
Radiates Emission from 3GHz to 7GHz

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3036.500000	44.7	100.0	H	169.0	46.5	-1.8	29.3	74
3718.500000	42.3	100.0	H	126.0	42.6	-0.3	31.7	74
4479.000000	51.4	100.0	H	192.0	53.9	-2.5	22.6	74
4976.500000	47.1	100.0	H	248.0	50.1	-3.0	26.9	74
6108.500000	47.6	100.0	H	158.0	53.6	-6.0	26.4	74
6843.000000	44.3	200.0	V	170.0	50.9	-6.6	29.7	74

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3036.500000	42.0	100.0	H	169.0	43.8	-1.8	12.0	54
3718.500000	38.1	100.0	H	126.0	38.4	-0.3	15.9	54
4479.000000	42.4	100.0	H	192.0	44.9	-2.5	11.6	54
4976.500000	42.5	100.0	H	248.0	45.5	-3.0	11.5	54
6108.500000	39.7	100.0	H	158.0	45.7	-6.0	14.3	54
6843.000000	36.8	200.0	V	170.0	43.4	-6.6	17.2	54

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)



Radiates Emission from 7GHz to 18GHz

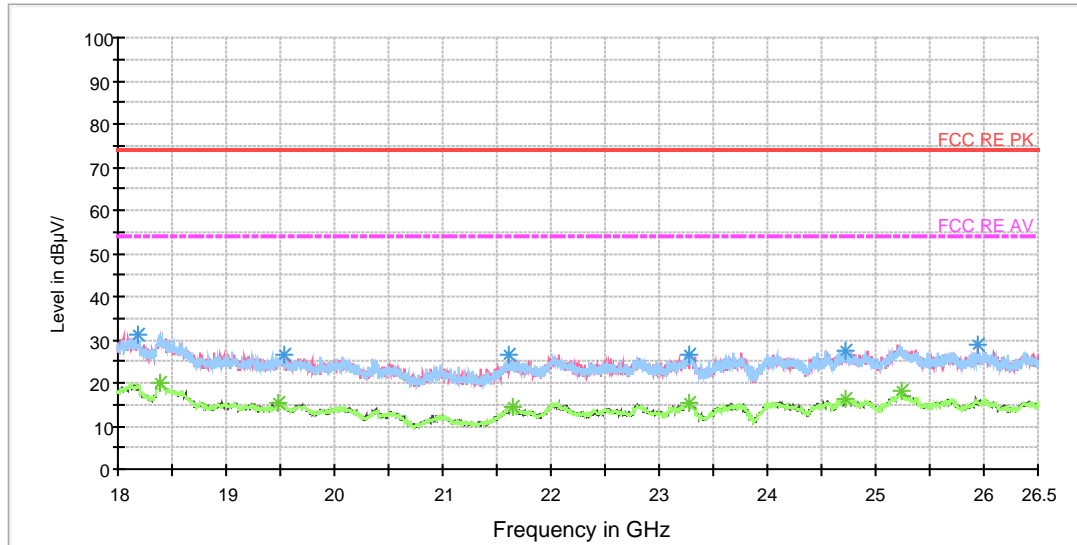
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
7320.375000	47.8	201.0	H	253.0	56.3	8.5	26.2	74
9447.500000	48.5	201.0	H	306.0	59.4	10.9	25.5	74
10598.375000	51.1	201.0	H	261.0	64.7	13.6	22.9	74
11571.875000	62.0	201.0	H	341.0	75.9	13.9	12.0	74
15299.500000	56.3	201.0	H	0.0	75.9	19.6	17.7	74
17951.875000	62.1	201.0	V	252.0	86.9	24.8	11.9	74

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
7712.250000	41.6	201.0	H	341.0	50.1	8.5	12.4	54
9228.875000	39.4	201.0	H	213.0	49.1	9.7	14.6	54
10613.500000	42.0	201.0	V	308.0	55.4	13.4	12.0	54
11571.875000	54.1	201.0	H	341.0	68.0	13.9	-0.1	54
15285.750000	47.3	201.0	H	57.0	66.9	19.6	6.7	54
18000.000000	52.5	201.0	H	298.0	77.9	25.4	1.5	54

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

RE 18-26.5GHz PK+AV



Radiates Emission from 18GHz to 26.5GHz

Frequency (MHz)	Peak (dBuV/m)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
18183.812500	31.1	H	0.0	36.0	-4.9	42.9	74
19537.437500	26.7	H	42.0	34.1	-7.4	47.3	74
21617.812500	26.4	V	300.0	35.4	-9.0	47.6	74
23287.000000	26.4	H	35.0	33.5	-7.1	47.6	74
24730.937500	27.4	H	141.0	33.6	-6.2	46.6	74
25947.500000	28.7	V	190.0	35.8	-7.1	45.3	74

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

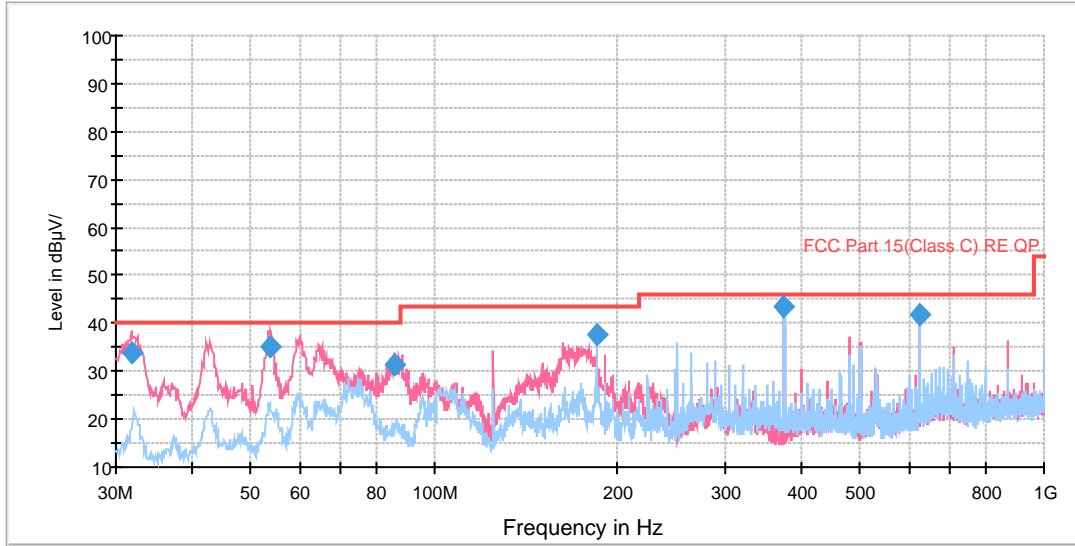
Frequency (MHz)	Average (dBuV/m)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
18384.625000	20.2	H	89.0	25.0	-4.8	33.8	54
19490.687500	15.4	V	97.0	23.0	-7.6	38.6	54
21646.500000	14.4	V	282.0	23.6	-9.2	39.6	54
23271.062500	15.5	H	0.0	22.7	-7.2	38.5	54
24720.312500	16.2	H	58.0	22.5	-6.3	37.8	54
25232.437500	18.1	H	171.0	24.0	-5.9	35.9	54

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)



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RE 30M-1GHz QP

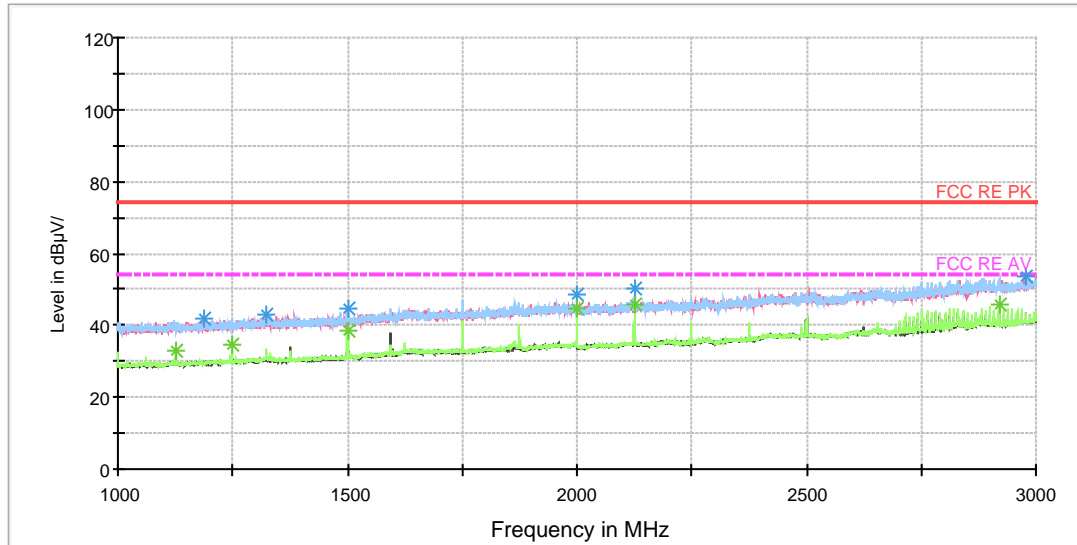


Radiates Emission from 30MHz to 1GHz

Frequency (MHz)	Quasi-Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
31.859203	34.0	100.0	V	295.0	56.5	-22.5	6.0	40.0
53.751534	35.1	100.0	V	289.0	55.9	-20.8	4.9	40.0
85.960562	31.2	125.0	V	22.0	58.7	-27.5	8.8	40.0
184.249425	37.4	120.0	V	243.0	65.0	-27.6	6.1	43.5
375.018750	43.7	100.0	H	346.0	65.6	-21.9	2.3	46.0
625.012500	42.0	100.0	V	126.0	58.7	-16.7	4.0	46.0

- Remark: 1. Quasi-Peak = Reading value + Correction factor
 2. Correction Factor = Antenna factor+ Insertion loss(cable loss+amplifier gain)
 3. Margin = Limit – Quasi-Peak

RE 1G-3GHz PK+AV



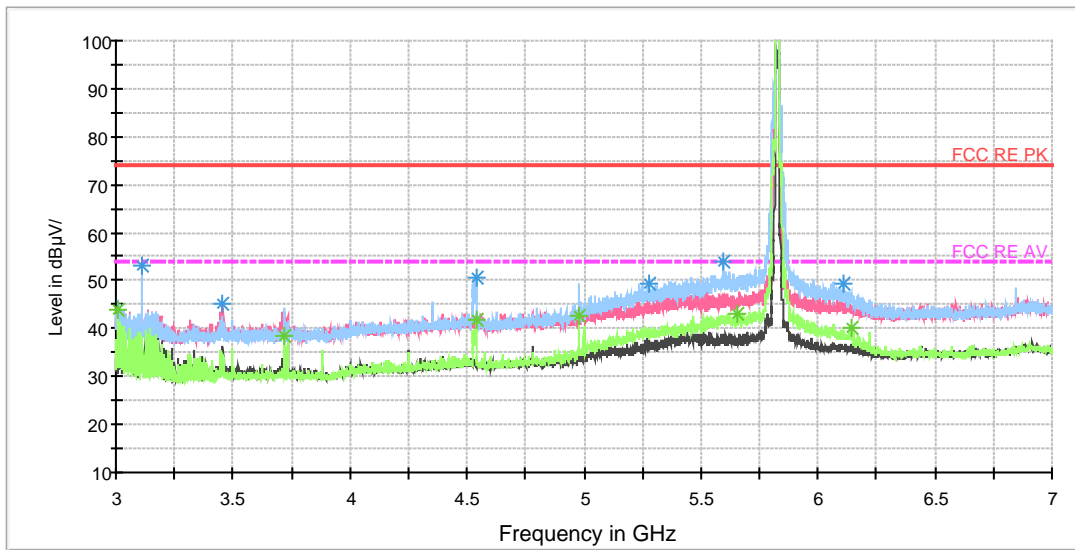
Radiates Emission from 1GHz to 3GHz

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1187.750000	41.8	201.0	H	7.0	49.9	-8.1	32.2	74
1323.250000	43.0	201.0	H	208.0	50.3	-7.3	31.0	74
1500.000000	44.6	201.0	H	266.0	51.3	-6.7	29.4	74
2000.000000	48.8	201.0	H	310.0	52.2	-3.4	25.2	74
2125.250000	50.1	201.0	H	324.0	52.4	-2.3	23.9	74
2978.250000	53.8	201.0	H	153.0	56.0	-2.2	20.2	74

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1125.000000	32.8	201.0	H	0.0	41.2	-8.4	21.2	54
1249.750000	34.5	201.0	H	285.0	42.5	-8.0	19.5	54
1500.000000	38.7	201.0	H	266.0	45.4	-6.7	15.3	54
2000.000000	44.8	201.0	H	310.0	48.2	-3.4	9.2	54
2125.250000	45.6	201.0	H	324.0	47.9	-2.3	8.4	54
2919.500000	45.7	201.0	H	153.0	47.5	-1.8	8.3	54

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)



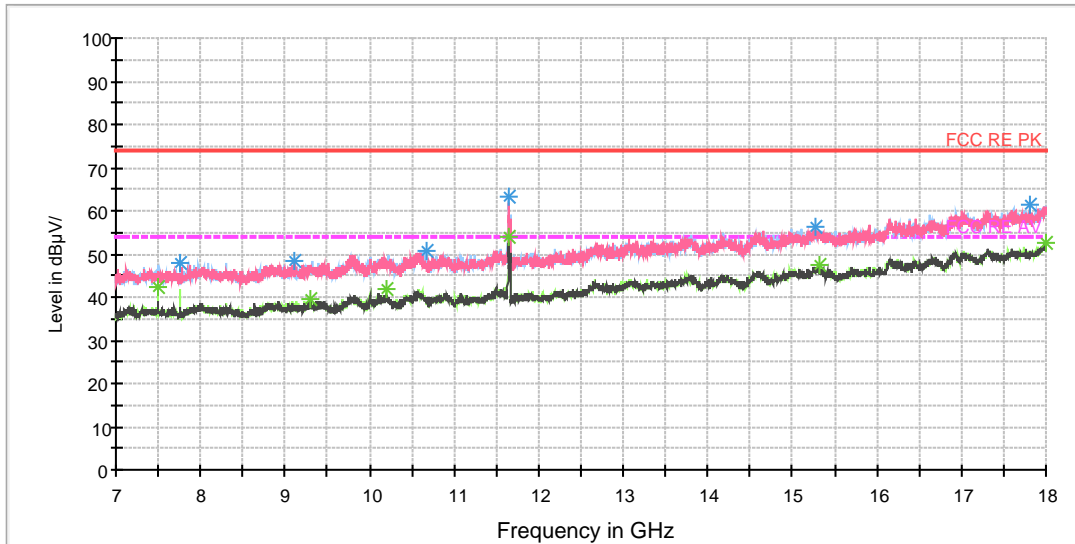
Radiates Emission from 3GHz to 7GHz

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3007.500000	45.9	99.0	H	174.0	47.9	-2.0	28.1	74
3718.500000	44.4	99.0	H	141.0	44.7	-0.3	29.6	74
4538.000000	47.9	99.0	H	162.0	50.4	-2.5	26.1	74
4976.500000	49.1	99.0	H	242.0	52.1	-3.0	24.9	74
5655.000000	50.6	99.0	H	174.0	55.4	-4.8	23.4	74
6145.000000	46.4	99.0	H	162.0	52.4	-6.0	27.6	74

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3007.500000	44.0	99.0	H	174.0	46.0	-2.0	10.0	54
3718.500000	38.4	99.0	H	141.0	38.7	-0.3	15.6	54
4538.000000	41.8	99.0	H	162.0	44.3	-2.5	12.2	54
4976.500000	42.8	99.0	H	242.0	45.8	-3.0	11.2	54
5655.000000	43.2	99.0	H	174.0	48.0	-4.8	10.8	54
6145.000000	40.3	99.0	H	162.0	46.3	-6.0	13.7	54

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)



Radiates Emission from 7GHz to 18GHz

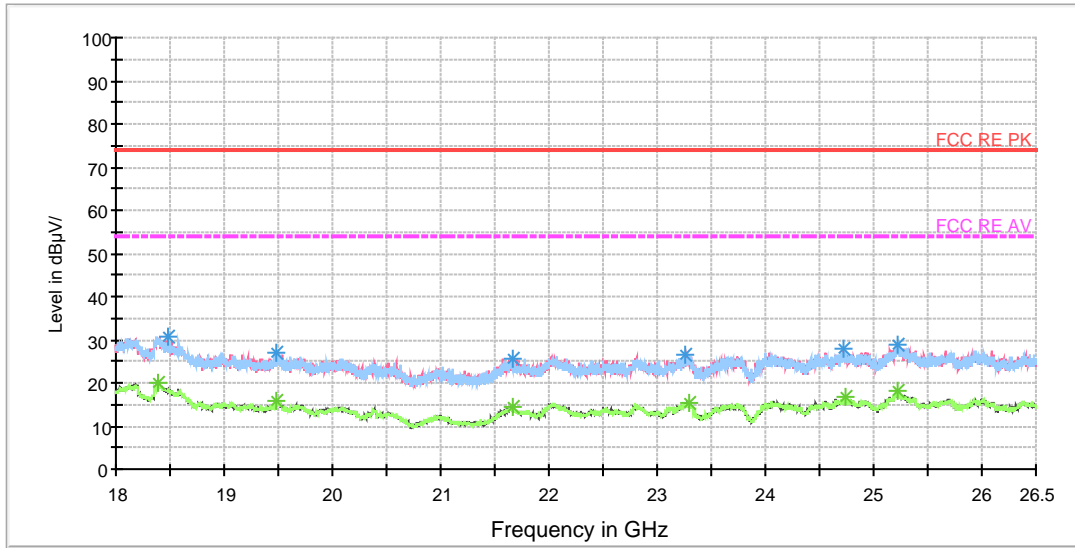
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
7765.875000	47.9	201.0	H	324.0	56.4	8.5	26.1	74
9109.250000	48.2	201.0	V	0.0	58.2	10.0	25.8	74
10663.000000	50.8	201.0	H	345.0	63.5	12.7	23.2	74
11648.875000	63.1	201.0	H	316.0	76.7	13.6	10.9	74
15265.125000	56.2	201.0	H	287.0	75.9	19.7	17.8	74
17819.875000	61.3	201.0	H	277.0	84.9	23.6	12.7	74

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
7499.125000	42.2	201.0	H	9.0	49.9	7.7	11.8	54
9301.750000	39.4	201.0	V	11.0	49.9	10.5	14.6	54
10201.000000	41.9	201.0	H	216.0	55.3	13.4	12.1	54
11650.250000	54.0	201.0	H	20.0	67.5	13.5	0.0	54
15329.750000	47.2	201.0	H	324.0	66.6	19.4	6.8	54
17998.625000	52.4	201.0	V	97.0	77.8	25.4	1.6	54

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

RE 18-26.5GHz PK+AV



Radiates Emission from 18GHz to 26.5GHz

Frequency (MHz)	Peak (dBuV/m)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
18483.437500	30.7	V	138.0	36.5	-5.8	43.3	74
19476.875000	26.9	H	235.0	34.7	-7.8	47.1	74
21662.437500	25.6	H	87.0	34.9	-9.3	48.4	74
23256.187500	26.5	V	145.0	33.9	-7.4	47.5	74
24718.187500	27.7	V	24.0	34.1	-6.4	46.3	74
25214.375000	29.0	H	116.0	35.1	-6.1	45.0	74

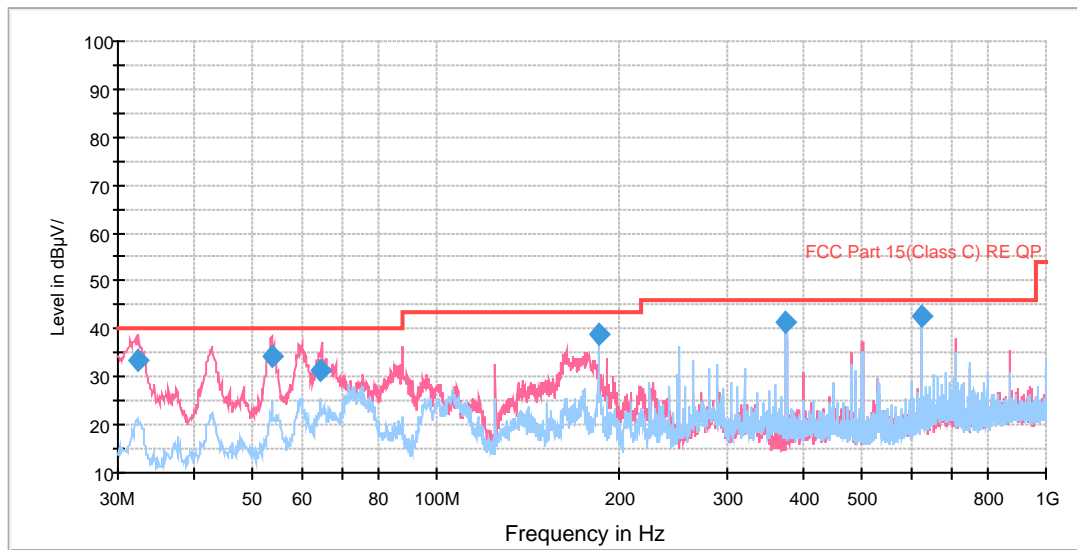
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
18381.437500	20.2	V	122.0	25.0	-4.8	33.8	54
19485.375000	15.6	V	122.0	23.3	-7.7	38.4	54
21660.312500	14.5	H	94.0	23.7	-9.2	39.5	54
23292.312500	15.3	H	27.0	22.3	-7.0	38.7	54
24733.062500	16.9	H	0.0	23.2	-6.3	37.1	54
25225.000000	18.1	H	123.0	24.0	-5.9	35.9	54

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

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RE 30M-1GHz QP

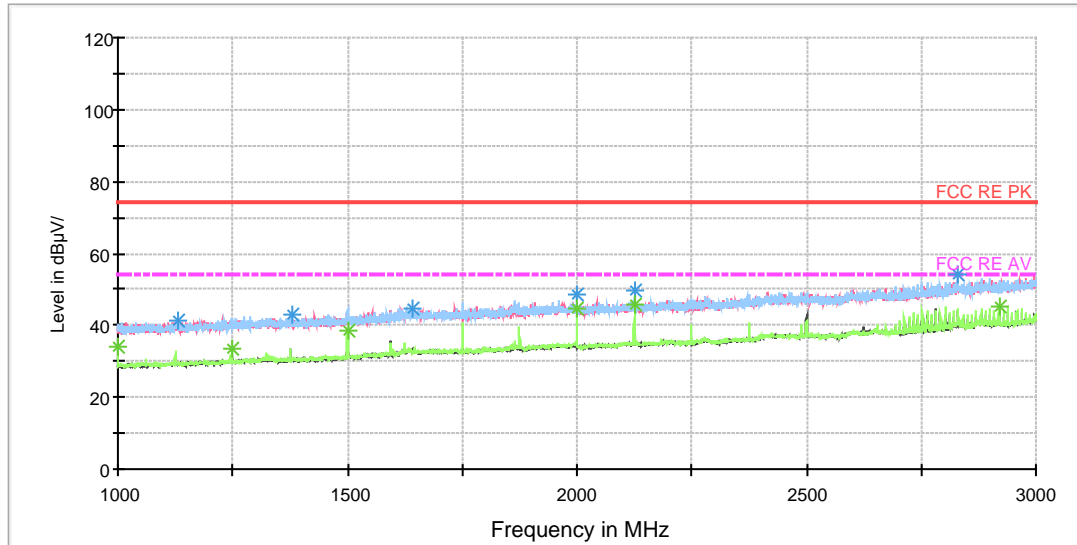


Radiates Emission from 30MHz to 1GHz

Frequency (MHz)	Quasi-Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
32.343938	33.4	100.0	V	281.0	56.0	-22.6	6.6	40.0
53.548694	34.2	121.0	V	278.0	55.0	-20.8	5.8	40.0
64.636753	31.3	100.0	V	118.0	55.0	-23.7	8.7	40.0
184.249425	39.0	100.0	V	232.0	66.6	-27.6	4.5	43.5
375.018750	41.6	100.0	H	0.0	63.5	-21.9	4.4	46.0
625.012500	42.5	100.0	V	97.0	59.2	-16.7	3.5	46.0

- Remark: 1. Quasi-Peak = Reading value + Correction factor
 2. Correction Factor = Antenna factor+ Insertion loss(cable loss+amplifier gain)
 3. Margin = Limit – Quasi-Peak

RE 1G-3GHz PK+AV



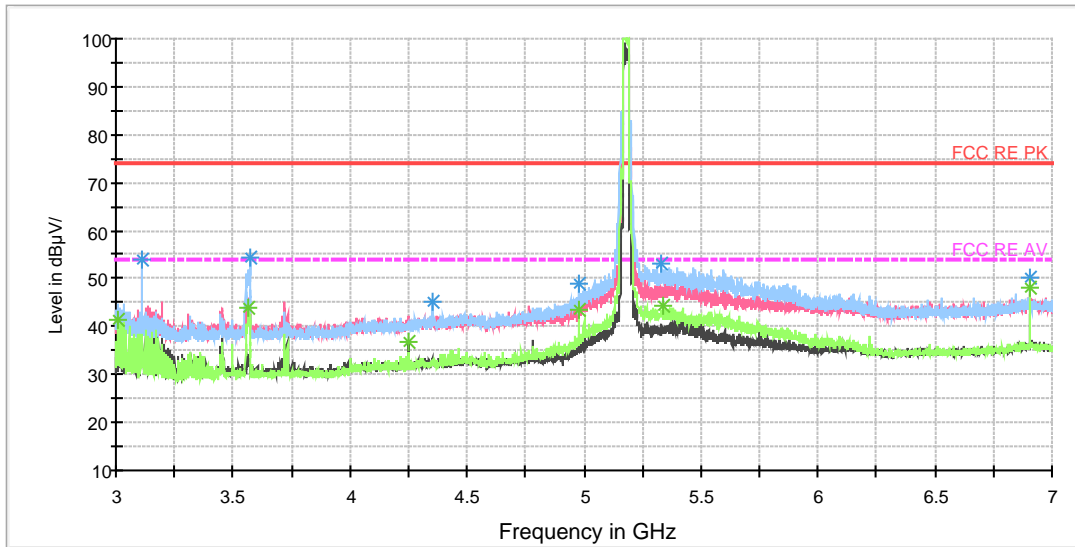
Radiates Emission from 1GHz to 3GHz

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1129.250000	41.2	201.0	H	200.0	49.6	-8.4	32.8	74
1381.000000	43.0	201.0	H	102.0	50.0	-7.0	31.0	74
1641.000000	44.6	201.0	H	151.0	49.3	-4.7	29.4	74
2000.250000	48.7	201.0	H	316.0	52.1	-3.4	25.3	74
2125.000000	50.0	201.0	H	316.0	52.3	-2.3	24.0	74
2831.250000	53.9	201.0	H	126.0	55.5	-1.6	20.1	74

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1000.000000	34.2	201.0	H	310.0	43.4	-9.2	19.8	54
1249.750000	33.7	201.0	H	8.0	41.7	-8.0	20.3	54
1500.000000	38.4	201.0	H	256.0	45.1	-6.7	15.6	54
2000.250000	44.5	201.0	H	316.0	47.9	-3.4	9.5	54
2125.000000	45.6	201.0	H	316.0	47.9	-2.3	8.4	54
2919.500000	45.4	201.0	H	145.0	47.2	-1.8	8.6	54

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)



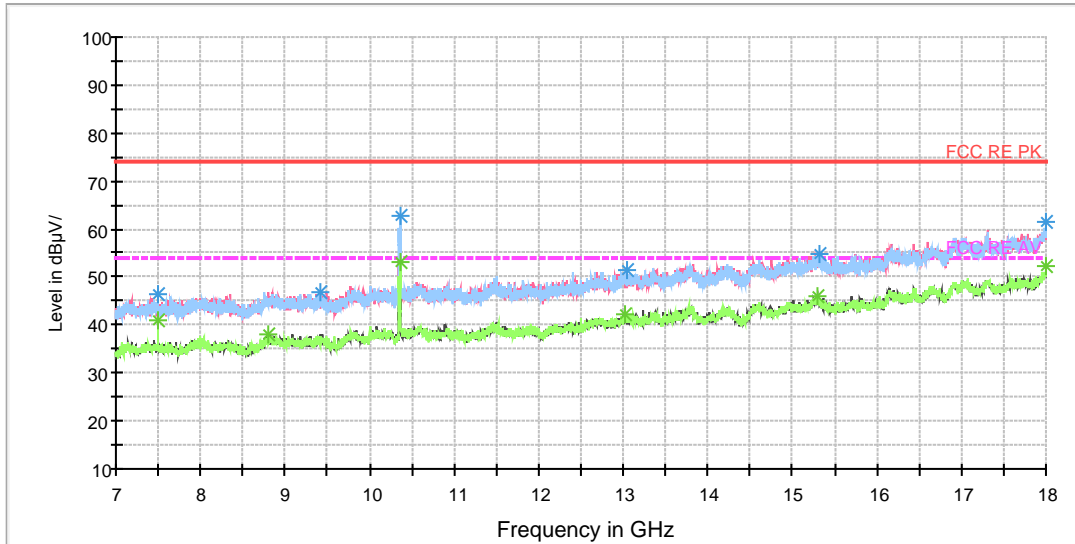
Radiates Emission from 3GHz to 7GHz

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3007.000000	44.2	103.0	H	170.0	46.2	-2.0	29.8	74
3565.000000	51.3	103.0	H	159.0	52.0	-0.7	22.7	74
4250.000000	42.2	202.0	V	193.0	44.2	-2.0	31.8	74
4976.500000	48.2	103.0	H	182.0	51.2	-3.0	25.8	74
5338.000000	51.9	103.0	H	159.0	55.7	-3.8	22.1	74
6907.000000	50.3	103.0	H	203.0	57.2	-6.9	23.7	74

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3007.000000	41.5	103.0	H	170.0	43.5	-2.0	12.5	54
3565.000000	44.1	103.0	H	159.0	44.8	-0.7	9.9	54
4250.000000	36.9	202.0	V	193.0	38.9	-2.0	17.1	54
4976.500000	43.5	103.0	H	182.0	46.5	-3.0	10.5	54
5338.000000	44.3	103.0	H	159.0	48.1	-3.8	9.7	54
6907.000000	47.9	103.0	H	203.0	54.8	-6.9	6.1	54

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)



Radiates Emission from 7GHz to 18GHz

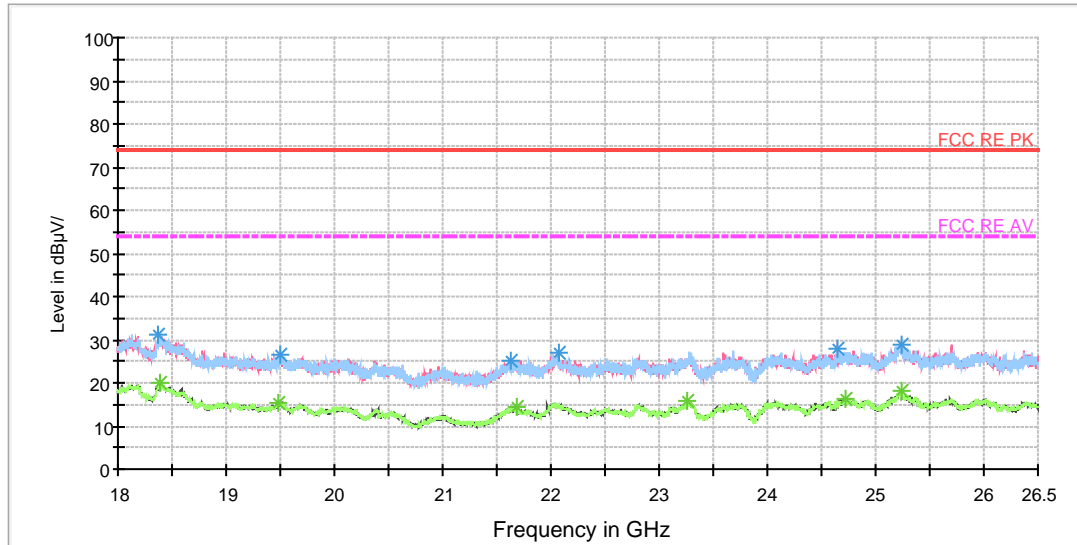
Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
7499.125000	46.3	101.0	H	220.0	54.0	-7.7	27.7	74
9411.750000	46.9	101.0	V	257.0	57.9	-11.0	27.1	74
10368.750000	62.6	101.0	H	198.0	74.2	-11.6	11.4	74
13039.000000	51.3	101.0	V	301.0	67.5	-16.2	22.7	74
15327.000000	54.9	101.0	H	164.0	74.3	-19.4	19.1	74
18000.000000	61.6	101.0	V	88.0	87.0	-25.4	12.4	74

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
7499.125000	41.1	101.0	H	220.0	48.8	-7.7	12.9	54
8797.125000	38.0	101.0	V	301.0	47.2	-9.2	16.0	54
10363.250000	53.3	101.0	H	128.0	64.9	-11.6	0.7	54
13010.125000	42.3	101.0	V	0.0	58.5	-16.2	11.7	54
15285.750000	45.9	101.0	V	356.0	65.5	-19.6	8.1	54
17993.125000	52.2	101.0	H	11.0	77.5	-25.3	1.8	54

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

RE 18-26.5GHz PK+AV



Radiates Emission from 18GHz to 26.5GHz

Frequency (MHz)	Peak (dBuV/m)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
18370.812500	31.2	H	105.0	36.0	-4.8	42.8	74
19496.000000	26.4	V	159.0	34.0	-7.6	47.6	74
21627.375000	25.3	H	252.0	34.4	-9.1	48.7	74
22068.312500	27.2	V	197.0	35.3	-8.1	46.8	74
24656.562500	27.8	V	159.0	34.8	-7.0	46.2	74
25234.562500	28.9	V	205.0	34.9	-6.0	45.1	74

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

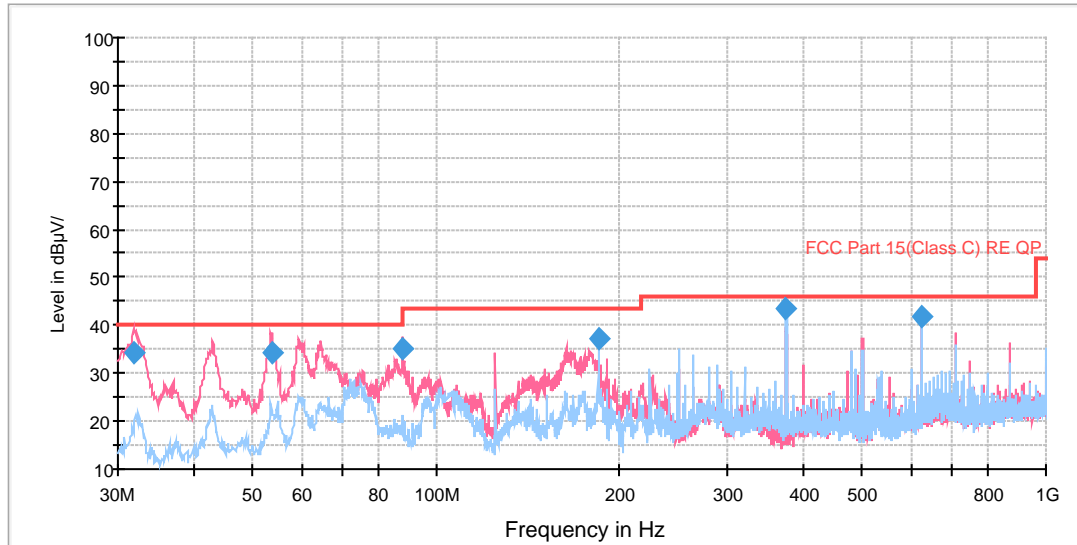
Frequency (MHz)	Average (dBuV/m)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
18396.312500	20.1	H	165.0	25.0	-4.9	33.9	54
19483.250000	15.6	V	282.0	23.3	-7.7	38.4	54
21679.437500	14.6	V	300.0	24.0	-9.4	39.4	54
23262.562500	15.7	H	260.0	23.0	-7.3	38.3	54
24728.812500	16.3	H	188.0	22.5	-6.2	37.7	54
25232.437500	17.9	H	203.0	23.8	-5.9	36.1	54

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)



802.11n HT20 CH40

RE 30M-1GHz QP



Radiates Emission from 30MHz to 1GHz

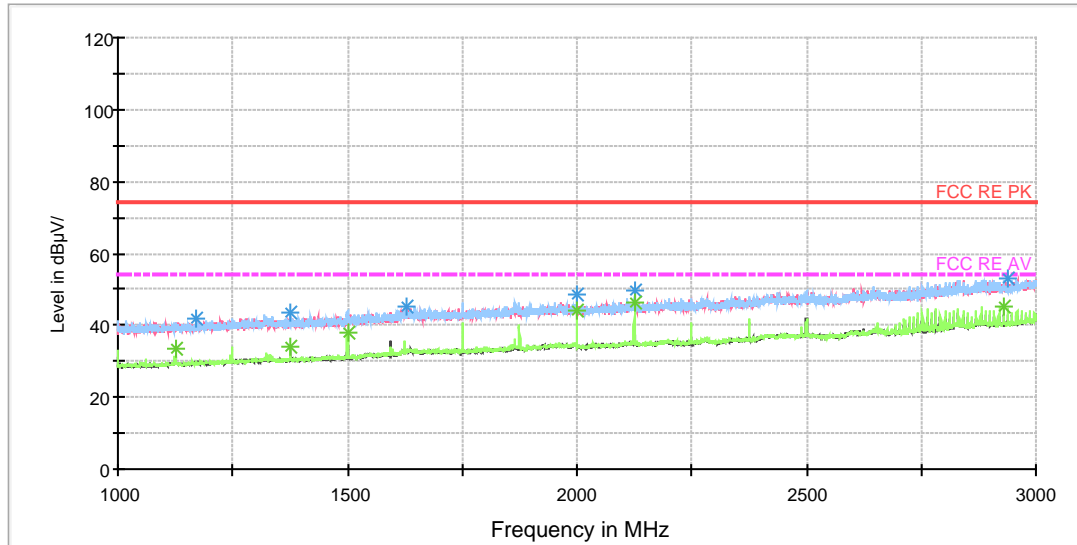
Frequency (MHz)	Quasi-Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
31.898297	34.3	101.0	V	304.0	56.8	-22.5	5.7	40.0
53.656306	34.3	101.0	V	288.0	55.1	-20.8	5.7	40.0
87.896660	35.2	126.0	V	29.0	62.4	-27.2	4.8	40.0
184.249425	37.0	126.0	V	253.0	64.6	-27.6	6.5	43.5
375.018750	43.3	101.0	H	348.0	65.2	-21.9	2.7	46.0
625.012500	41.8	101.0	V	141.0	58.5	-16.7	4.2	46.0

Remark: 1. Quasi-Peak = Reading value + Correction factor

2. Correction Factor = Antenna factor+ Insertion loss(cable loss+amplifier gain)

3. Margin = Limit – Quasi-Peak

RE 1G-3GHz PK+AV



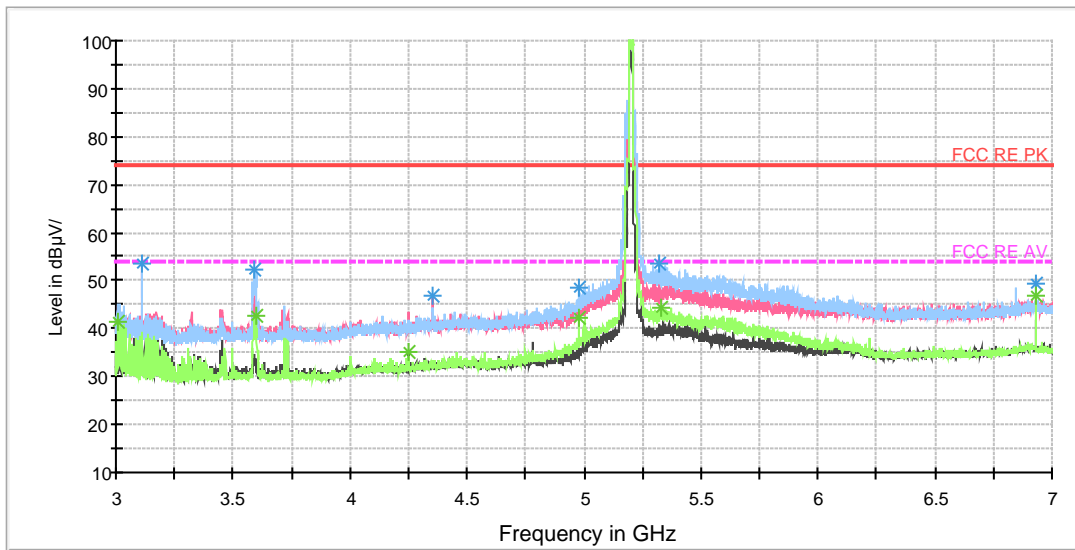
Radiates Emission from 1GHz to 3GHz

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1171.750000	42.0	201.0	V	248.0	50.1	-8.1	32.0	74
1375.000000	43.4	201.0	H	64.0	50.5	-7.1	30.6	74
1630.000000	45.1	201.0	V	169.0	49.8	-4.7	28.9	74
2000.250000	48.3	201.0	H	323.0	51.7	-3.4	25.7	74
2124.750000	49.6	201.0	H	302.0	51.9	-2.3	24.4	74
2939.250000	53.1	201.0	H	145.0	55.0	1.9	20.9	74

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1125.000000	33.5	201.0	H	0.0	41.9	-8.4	20.5	54
1375.000000	33.9	201.0	V	169.0	41.0	-7.1	20.1	54
1500.000000	37.9	201.0	H	239.0	44.6	-6.7	16.1	54
2000.250000	44.3	201.0	H	323.0	47.7	-3.4	9.7	54
2125.250000	46.2	201.0	H	323.0	48.5	-2.3	7.8	54
2929.250000	45.4	201.0	H	145.0	47.1	-1.7	8.6	54

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)



Radiates Emission from 3GHz to 7GHz

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3007.000000	44.6	103.0	H	171.0	46.6	-2.0	29.4	74
3595.500000	52.0	103.0	H	193.0	52.9	-0.9	22.0	74
4250.000000	43.4	202.0	V	190.0	45.4	2.0	30.6	74
4976.500000	48.6	103.0	H	182.0	51.6	3.0	25.4	74
5326.000000	50.6	103.0	H	159.0	54.4	3.8	23.4	74
6933.500000	49.3	103.0	H	204.0	56.1	6.8	24.7	74

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3007.000000	41.6	103.0	H	171.0	43.6	-2.0	12.4	54
3595.500000	42.6	103.0	H	193.0	43.5	-0.9	11.4	54
4250.000000	35.2	202.0	V	190.0	37.2	2.0	18.8	54
4976.500000	42.2	103.0	H	182.0	45.2	3.0	11.8	54
5326.000000	44.5	103.0	H	159.0	48.3	3.8	9.5	54
6933.500000	46.7	103.0	H	204.0	53.5	6.8	7.3	54

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)