

Test Report No.:
FCC2022-0020-RF3

RF Test Report

EUT : **ActivPanel 9 WiFi and Bluetooth Module**
MODEL : **AP9-WIFIBT-AB-02**
BRAND NAME : **Promethean**
APPLICANT : **Promethean Limited**
Classification Of Test : **N/A**

CVC Testing Technology Co., Ltd.



Client	Name : Promethean Limited Address : Promethean House, Lower Philips Rd, whitebirk Industrial Estate, Blackburn, Bb1 5th United Kingdom		
Manufacturer	Name : Promethean Limited Address : Promethean House, Lower Philips Rd, whitebirk Industrial Estate, Blackburn, Bb1 5th United Kingdom		
Equipment Under Test	Name : ActivPanel 9 WiFi and Bluetooth Module Model/Type: AP9-WIFIBT-AB-02 Trade mark : Promethean SerialNO.: N/A Sampe NO.: 3-1		
Date of Receipt.	2022.03.25	Date of Testing	2022.03.25~2022.05.24
Test Specification		Test Result	
FCC Part 15, Subpart E (15.407) Canada RSS-247 Issue 2 (2017-02) Canada RSS-Gen Issue 5 (2019-03)		PASS	
Evaluation of Test Result	The equipment under test was found to comply with the requirements of the standards applied. Issue Date: 2022.05.25		
Tested by:  <u>Xu ZhenFei</u> Name Signature	Reviewed by:  <u>Liu YongHai</u> Name Signature	Approved by:  <u>Chen HuaWen</u> Name Signature	
Other Aspects: NONE.			
Abbreviations: OK, Pass= passed Fail = failed N/A= not applicable EUT= equipment, sample(s) under tested			



This test report relates only to the EUT, and shall not be reproduced except in full, without written approval of CVC.

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
FCC2022-0020-RF3	Original release	2022.05.25



1 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC PART 15, SUBPART E (SECTION 15.407)			
STANDARD SECTION	TEST TYPE	RESULT	REMARK
15.207 RSS-Gen 8.8	Conducted Emissions	PASS	Meet the requirement of limit.
15.403(i) RSS-247 6.2.4 (1)	6dB&26dB Emission Bandwidth	PASS	Meet the requirement of limit.
RSS-Gen 6.7	Occupied Bandwidth Measurement	PASS	Meet the requirement of limit.
15.407(b) RSS-247 6.2.1 (2) RSS-247 6.2.2 (2) RSS-247 6.2.3 (2) RSS-247 6.2.4 (2)	Radiated Emission and Bandedge	PASS	Meet the requirement of limit.
15.407(a) RSS-247 6.2.1 (1) RSS-247 6.2.2 (1) RSS-247 6.2.3 (1) RSS-247 6.2.4 (1)	Transmit Power	PASS	Meet the requirement of limit.
15.407(a) RSS-247 6.2.1 (1) RSS-247 6.2.2 (1) RSS-247 6.2.3 (1) RSS-247 6.2.4 (1)	Power Spectral Density	PASS	Meet the requirement of limit.
15.407(g)	Frequency Stability	PASS	Meet the requirement of limit.
15.203 15.407(a)	Antenna Requirement	PASS	No antenna connector is used

Note: refer to DFS report (Report No. FCC2022-0020-RF4)



1.1 LIST OF TEST AND MEASUREMENT INSTRUMENTS

Test Equipment	Type/Mode	SERIAL NO.	Equipment No.	Manufacturer	Cal. Due
WIFI & Bluetooth Test System 1					/
Communication Shielded Room 1	4m*3m*3m	CRTDSWKS44301	VGDS-0699	CRT	2024/04/24
Spectrum Analyzer	FSV30	104337	DZ-000235	R&S	2022/11/03
Comprehensive Test Instrument	CMW500	137779	DZ-000220	R&S	2022/06/30
Comprehensive Test Instrument	CMW500	169888	DZ-000342	R&S	2022/12/01
LTE Comprehensive Test Instrument	E7515A	MY58010639	DZ-000173	KEYSIGHT	2022/04/14
Analog Signal Generator	SMA100B	103663	DZ-000239-2	R&S	2022/06/30
Vector Signal Generator	SMBV100B	101757	DZ-000239-1	R&S	2022/06/30
Programmable DC Power Supply	E3642A	MY59108106	DZ-000242-2	KEYSIGHT	2022/08/05
Radiation Spurious Test System					/
3m Semi-Anechoic Chamber	FACT-4	ST08035	WKNA-0024	ETS	2024/12/12
Spectrum Analyzer	N9010B	MY57470323	DZ-000174	KEYSIGHT	2023/03/02
EMI Test Receiver	N9038A-508	MY532290079	EM-000397	Agilent	2023/03/02
Broadband Antenna	VULB 9163	9163-530	EM-000342	SCHWARZBECK	2022/06/26
Waveguide Horn Antenna	HF906	360306/008	WKNA-0024-8	R&S	2023/03/04
Waveguide Horn Antenna	BBHA9170	00949	DZ-000209-2	SCHWARZBECK	2022/08/27
Preamplifier	BBV 9721	9721-050	DZ-000209-1	SCHWARZBECK	2022/06/30
5G Bandstop Filters	WRCJV12-4900-5100-5900-6100-50EE	1	DZ-000186	WI	2022/12/20
Comprehensive tester	CMW500	159000	DZ-000240-2	R&S	2022/12/20
Conducted emission					/
EMI Test Receiver	ESCI	100857	WKNB-0081	R&S	2022-12-08
EMI Test Receiver	ESR3	102394	VG DY-0705	R&S	2023-03-04
LISN	NSLK 8127	8127644	VG DY-0150	SCHWARZBECK	2022-09-01
DC LISN	PVDC8301-017	PVDC8301#17	VG DY-0692	SCHWARZBECK	2022-06-07
LISN	NSLK 8129	8129-268	EM-000388	SCHWARZBECK	2023-03-03
Plus Limiter (#1)	VTSD 9561 F-N	00515	VG DY-0808	SCHWARZBECK	2023-03-04
Impedance Stabilization Network	ISN T800	27095	WKNE-0195	TESEQ	2022-09-01
Impedance Stabilization Network	NTFM8158	8158-0092	VG DY-0356	SCHWARZBECK	2022-06-07
Impedance Stabilization Network	NTFM8131	#184	EM-000498	SCHWARZBECK	2022-06-05
Voltage Probe	TK9420	9420-499	VG DY-0128	SCHWARZBECK	2023-03-04
Power Divider	4901.17.B	22643830	DB-0016	HUBER+SUHNER	2023-09-01
Video Signal Generator	GV-798+	151064920001	VGDS-0215	PROMAX	2022-06-07
Audio Signal Generator	GAG-810	EK871591	EM-000309	GW	2022-12-08
Shielding Room(#1)	GP1A	001	WKNF-0001	LEINING	2024-08-08



1.2 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT:

No.	ITEM	FREQUENCY	UNCERTAINTY
1	Conducted emissions	9kHz~30MHz	±2.66dB
2	Radiated emissions	9KHz ~ 30MHz	±0.769dB
		30MHz ~ 1GMHz	±0.877dB
		1GHz ~ 18GHz	±0.777dB
		18GHz ~ 40GHz	±1.315dB

1.3 TEST LOCATION

The tests and measurements refer to this report were performed by EMC testing Lab. of CVC Testing Technology Co., Ltd.

Address: No.3,TiantaiyiRoad,KaitaiAvenue,ScienceCity,Guangzhou,China

Post Code: 510663 Tel: 020-32293888

FAX: 020-32293889 E-mail: office@cvc.org.cn



2 GENERAL INFORMATION

2.1 GENERAL PRODUCT INFORMATION

PRODUCT	ActivPanel 9 WiFi and Bluetooth Module
BRAND	Promethean
MODEL NO.	AP9-WIFIBT-AB-02
FCC ID	QAM023
IC ID	5459A-023
POWER SUPPLY	DC 5V From USB Host Unit
MODULATION TECHNOLOGY	OFDM,OFDMA
MODULATION TYPE	256QAM, 64QAM, 16QAM, QPSK, BPSK for OFDM 1024QAM,256QAM, 64QAM, 16QAM, QPSK, BPSK for OFDMA
TRANSFER RATE	802.11a: up to 54Mbps 802.11n : up to 300Mbit/s 802.11ac: up to 1733.3Mbps 802.11ax: up to 2401.9 Mbps
OPERATING FREQUENCY	5180 ~ 5240MHz,5260 ~ 5320MHz, 5500 ~ 5720MHz (Remark 5), 5745 ~ 5825MHz
NUMBER OF CHANNEL	See item 2.2
CONDUCTED OUTPUT POWER	15.04 dBm for 5180 ~ 5240MHz (Maximum AVG Power) 15.97 dBm for 5260 ~ 5320MHz (Maximum AVG Power) 15.56 dBm for 5500 ~ 5720MHz (Maximum AVG Power) 13.91 dBm for 5745 ~ 5825MHz (Maximum AVG Power)
ANTENNA TYPE (Remark 6)	ANT0 5180 ~ 5240MHz: External antenna with 5.3dBi gain 5260 ~ 5320MHz: External antenna with 4.4dBi gain 5500 ~ 5720MHz: External antenna with 3.0dBi gain 5745 ~ 5825MHz: External antenna with 3.2dBi gain ANT1 5180 ~ 5240MHz: External antenna with 5.3dBi gain 5260 ~ 5320MHz: External antenna with 4.4dBi gain 5500 ~ 5720MHz: External antenna with 3.0dBi gain 5745 ~ 5825MHz: External antenna with 3.2dBi gain
I/O PORTS	Refer to user's manual
CABLE SUPPLIED	N/A



NOTE:

1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
2. For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.
3. EUT photo refer to report (Report NO.: FCC2022-0020-E).
4. The EUT incorporates a MIMO function. Physically, the EUT provides 2 completed transmitter and 2 receiver.
5. RSS-247 For the band 5600-5650 MHz, no operation is permitted. Until further notice, devices subject to this annex shall not be capable of transmitting in the band 5600-5650 MHz. This restriction is for the protection of Environment Canada weather radars operating in this band.
6. Since the above data and/or information is provided by the client relevant results or conclusions of this report are only made for these data and/or information, CVC is not responsible for the authenticity, integrity and results of the data and information and/or the validity of the conclusion.

MODULATION MODE	TX FUNCTION
802.11a	2TX/2RX
802. 11n 20MHz	2TX/2RX
802. 11n 40MHz	2TX/2RX
802.11ax 80MHz	2TX/2RX
802.11ac 80MHz	2TX/2RX



2.2 Carrier Frequency and Channel

FOR 5180 ~ 5240MHz

4 channels are provided for 802.11a, 802.11n (HT20), 802.11ac (VHT20) ,802.11ax (HE20):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
36	5180 MHz	40	5200 MHz
44	5220 MHz	48	5240 MHz

2 channels are provided for 802.11n (HT40), 802.11ac (VHT40), 802.11ax (HE40):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
38	5190 MHz	46	5230 MHz

1 channel is provided for 802.11ac (VHT80) , 802.11ax (HE80):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
42	5210MHz	--	--

WLAN 5.26 ~ 5.32GHz

4 channels are provided for 802.11a, 802.11n (HT20), 802.11ac (VHT20) ,802.11ax (HE20):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
52	5260MHz	56	5280MHz
60	5300MHz	64	5320MHz

2 channels are provided for 802.11n (HT40), 802.11ac (VHT40), 802.11ax (HE40):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
54	5270MHz	62	5310MHz

1 channels are provided for 802.11ac (VHT80), 802.11ax (HE80):

CHANNEL	FREQUENCY
58	5290MHz



WLAN 5.50 ~ 5.72GHz

9 channels are provided for 802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20)::

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
100	5500MHz	124	5620MHz
104	5520MHz	128	5640MHz
108	5540MHz	132	5660MHz
112	5560MHz	136	5680MHz
116	5580MHz	140	5700MHz
120	5600MHz	144	5720MHz

4 channels are provided for 802.11n (HT40), 802.11ac (VHT40), 802.11ax (HE40):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
102	5510MHz	126	5630MHz
110	5550MHz	134	5670MHz
118	5590MHz	142	5710MHz

2 channel is provided for 802.11ac (VHT80), 802.11ax (HE80):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
106	5530MHz	138	5690MHz
122	5610MHz		

FOR 5745 ~ 5825MHz

5 channels are provided for 802.11a, 802.11a c 20MHz, 802.11n (20MHz), 802.11ax (HE20)::

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
149	5745MHz	153	5765MHz
157	5785MHz	161	5805MHz
165	5825MHz	--	--

2 channels are provided for 802.11n (HT40), 802.11ac (VHT40), 802.11ax (HE40):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
151	5755MHz	159	5795MHz

1 channel is provided for 802.11ac (VHT80), 802.11ax (HE80):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
155	5775MHz	--	--

1. The channels which were indicated in bold type of the above channel list were selected as representative test channel. Therefore only the data of the test channels were recorded in this report.
2. By means of test software which provided by manufacture, the power levels during the tests were set according to the following codes:



Operated in 5180 ~ 5240MHz band									
802.11a		802.11n(HT20)		802.11n(HT40)		802.11ac (VHT80)		802.11ax (HE80)	
FREQUEN CY(MHZ)	POWER SETTING	FREQUEN CY(MHZ)	POWER SETTING	FREQUEN CY(MHZ)	POWER SETTING	FREQUEN CY(MHZ)	POWER SETTING	FREQUEN CY(MHZ)	POWER SETTING
5180	17	5180	11.5	5190	13	5210	12	5210	11
5200	17	5200	11.5	5230	13				
5240	17	5240	11.5						
Operated in 5260 ~ 5320MHz band									
802.11a		802.11n(HT20)		802.11n(HT40)		802.11ac (VHT80)		802.11ax (HE80)	
FREQUEN CY(MHZ)	POWER SETTING	FREQUEN CY(MHZ)	POWER SETTING	FREQUEN CY(MHZ)	POWER SETTING	FREQUEN CY(MHZ)	POWER SETTING	FREQUEN CY(MHZ)	POWER SETTING
5260	17	5260	14	5270	13	5290	12	5290	11
5280	17	5280	14	5310	13				
5320	17	5320	14						
Operated in 5500 ~ 5720MHz band									
802.11a		802.11n(HT20)		802.11n(HT40)		802.11ac (VHT80)		802.11ax (HE80)	
FREQUEN CY(MHZ)	POWER SETTING	FREQUEN CY(MHZ)	POWER SETTING	FREQUEN CY(MHZ)	POWER SETTING	FREQUEN CY(MHZ)	POWER SETTING	FREQUEN CY(MHZ)	POWER SETTING
5500	17	5500	14	5510	13	5530	12	5530	11
5600	17	5600	14	5630	13	5610	12	5610	11
5700	17	5700	14	5670	13	5690	12	5690	11
5720	17	5720	14	5710	13				
Operated in 5745 ~ 5825MHz band									
802.11a		802.11n(HT20)		802.11n(HT40)		802.11ac (VHT80)		802.11ax (HE80)	
CHANNEL	POWER SETTING	CHANNEL	POWER SETTING	CHANNEL	POWER SETTING	CHANNEL	POWER SETTING	CHANNEL	POWER SETTING
5745	17	5745	14	5755	13	5755	12	5755	11
5785	17	5785	14	5795	13				
5825	17	5825	14						



2.3 TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL

EUT CONFIGURE MODE	APPLICABLE TO				DESCRIPTION
	RE≥1G	RE<1G	PLC	APCM	
-	√	√	√	√	Powered by host unit with wifi(5G) link

Where **RE≥1G**: Radiated Emission above 1GHz

RE<1G: Radiated Emission below 1GHz

PLC: Power Line Conducted Emission

APCM: Antenna Port Conducted Measurement

NOTE:

1. The EUT had been pre-tested on the positioned of each 3 axis. The worst case was found when positioned on **X-plane**.

NOTE: "-" means no effect.

MODULATION	DATA RATE
802.11a	6Mbps
802.11n HT20	MCS0
802.11n HT40	MCS0
802.11ac VHT20(Covered by HT20)	MCS0
802.11ac VHT40(Covered by HT40)	MCS0
802.11ax HE20(Covered by HT20)	MCS0
802.11ax HE40(Covered by HT40)	MCS0
802.11ac VHT80	MCS0
802.11ax HE80	MCS0

TEST CONDITION:

APPLICABLE TO	ENVIRONMENTAL CONDITIONS	INPUT POWER	TESTED BY
RE<1G	25deg. C, 54%RH	DC 5V From USB Host Unit	Liu ShiWei
RE≥1G	25deg. C, 54%RH	DC 5V From USB Host Unit	Liu ShiWei
PLC	20deg. C, 56%RH	DC 5V From USB Host Unit	Liu ShiWei
APCM	20deg. C, 55%RH	DC 5V From USB Host Unit	Liu ShiWei



2.4 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Support Equipment							
NO	Description	Brand	Model No.	Serial Number	Supplied by		
Support Cable							
NO	Description	Quantity (Number)	Length (m)	Detachable (Yes/ No)	Shielded (Yes/ No)	Cores (Number)	Supplied by
-	-	-	-	-	-	-	-

2.5 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is a RF product, according to the specifications of the manufacturers. It must comply with the requirements of the following standards:

FCC Part 15, Subpart E (15.407)

KDB 789033 D02 General UNII Test Procedures New Rules v02r01

KDB 662911 D01 Multiple Transmitter Output v02r01

Canada RSS-247 Issue 2 (2017-02)

Canada RSS-Gen Issue 5 (2019-03)

ANSI C63.10-2020

All test items have been performed and recorded as per the above standards



3 TEST TYPES AND RESULTS

3.1 RADIATED EMISSION AND BANDEDGE MEASUREMENT

3.1.1 LIMITS OF RADIATED EMISSION AND BANDEDGE MEASUREMENT

Radiated emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table:

FREQUENCIES (MHz)	FIELD STRENGTH (microvolts/meter)	MEASUREMENT DISTANCE (meters)
0.009 ~ 0.490	2400/F(kHz)	300
0.490 ~ 1.705	24000/F(kHz)	30
1.705 ~ 30.0	30	30
30 ~ 88	100	3
88 ~ 216	150	3
216 ~ 960	200	3
Above 960	500	3

NOTE:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
3. For frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 30dB under any condition of modulation.



3.1.2 LIMITS OF UNWANTED EMISSION OUT OF THE RESTRICTED BANDS

APPLICABLE TO	LIMIT	
KDB 789033 D02 General UNII Test Procedures New Rules v02r01	FIELD STRENGTH AT 3m	
	PK: 74 (dBμV/m)	AV: 54 (dBμV/m)
APPLICABLE TO	EIRP LIMIT	EQUIVALENT FIELD STRENGTH AT 3m
15.407(b)(1)	PK: -27 (dBm/MHz)	PK: 68.2 (dBμV/m)
15.407(b)(2)		
15.407(b)(3)		
15.407(b)(4)	Note	Note

NOTE:

For transmitters operating in the 5.725-5.85 GHz band:Section 15.407(b)(4) specifies the unwanted emissions limit for the U-NII-3 band. A band emissions mask is specified in Section 15.407(b)(4)(i). An alternative to the band emissions mask is specified in Section 15.407(b)(4)(ii). The alternative limits are based on the highest antenna gain specified in the filing. There are also marketing and importation restrictions for the alternative limit.

15.407(b)(4)(i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength:

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



3.1.3 TEST PROCEDURES

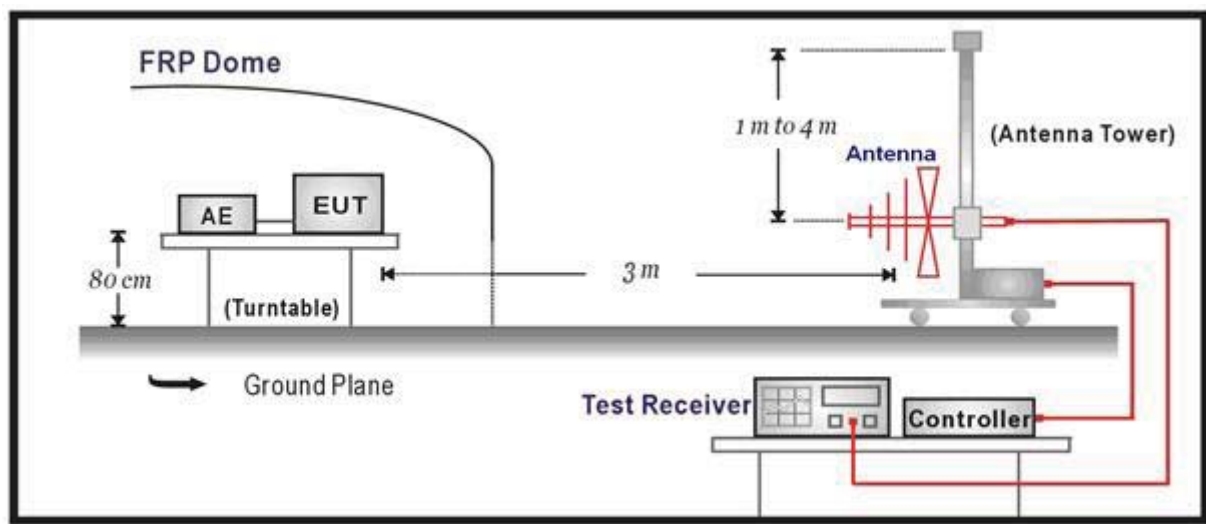
- a. The EUT was placed on the top of a rotating table 1.5 meters(above 1GHz) and 0.8 meters(below 1GHz) above the ground at a 3 meters semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna is a broadband antenna, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

NOTE:

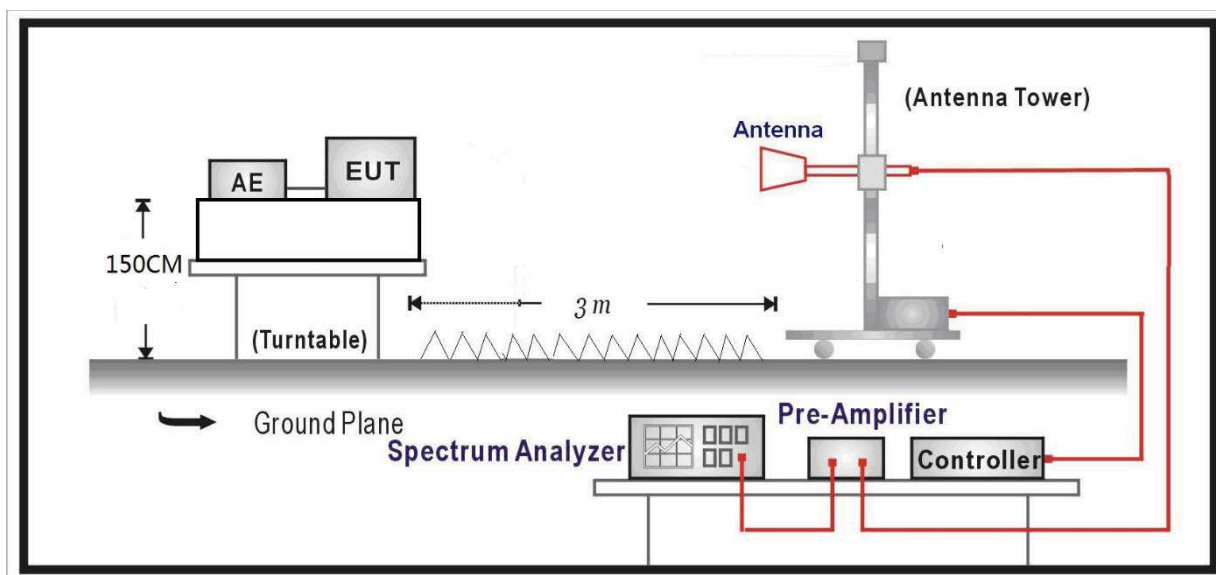
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is $\geq 1/T$ (Duty cycle < 98%) or 10Hz(Duty cycle > 98%) for Average detection (AV) at frequency above 1GHz.
4. All modes of operation were investigated and the worst-case emissions are reported.

3.1.4 TEST SETUP

Below 1GHz Test Setup:



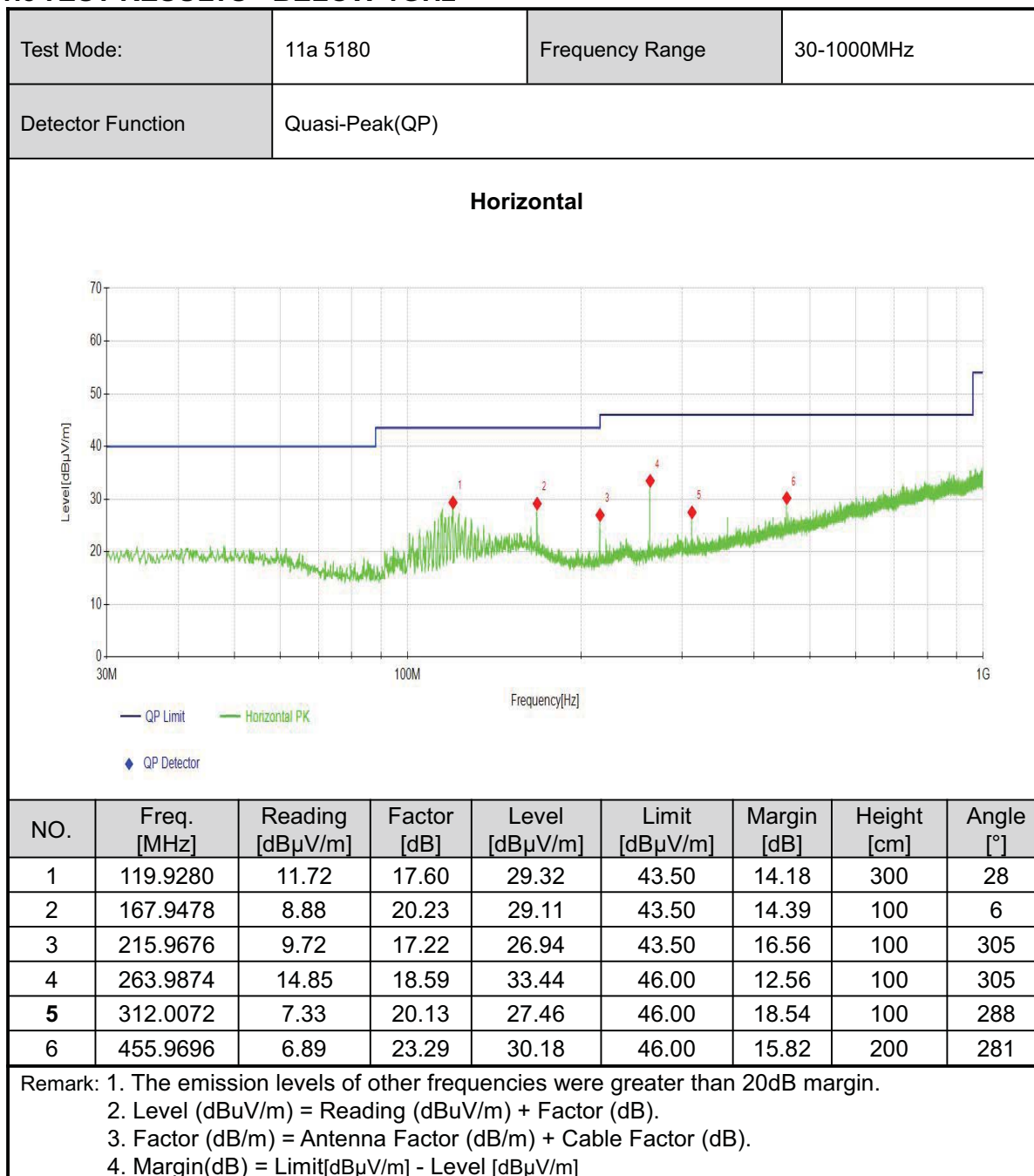
Above 1GHz Test Setup:

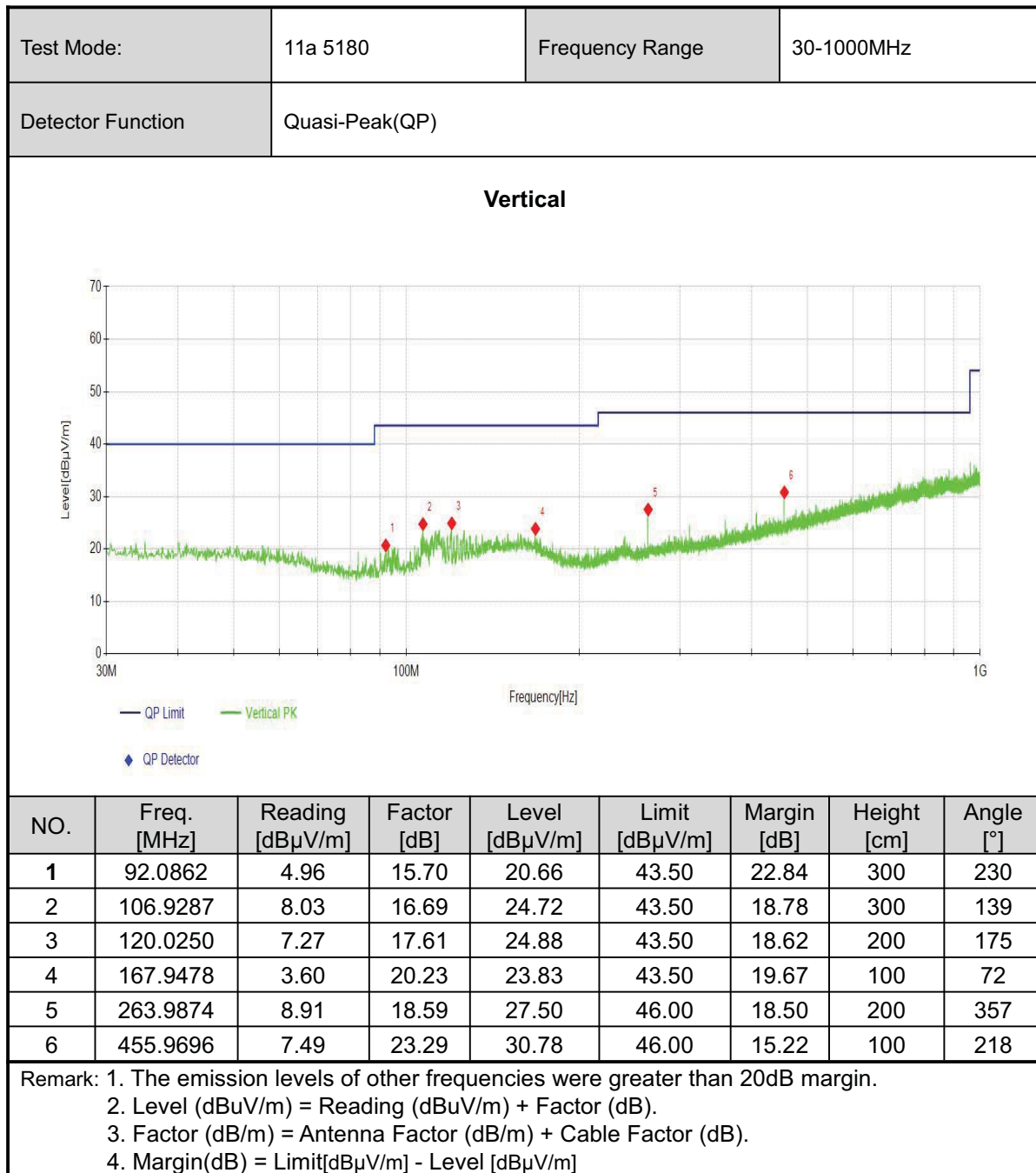


Note: For the actual test configuration, please refer to the related Item in this test report (Photographs of the Test Setup)



3.1.5 TEST RESULTS - BELOW 1GHz







3.1.6 TEST RESULTS - Band 1 (5180-5240MHz):

ABOVE 1GHz DATA

Channel	802.11a CH36	Frequency	5180 MHz						
Frequency Range	Above 1G	Detector Function	PK/AV						
Horizontal									
NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector
1	5077.7289	46.66	7.72	54.38	74.00	19.62	258	204	PK
2	5110.8654	35.69	8.05	43.74	54.00	10.26	163	293	AV
3	5150.0000	46.35	8.03	54.38	74.00	19.62	324	251	PK
4	5150.0000	35.64	8.03	43.67	54.00	10.33	247	253	AV
5	5178.5793	85.78	7.90	93.68			180	230	AV
6	5178.5793	94.78	7.90	102.68			300	230	PK
7	10360.0000	26.47	14.09	40.56	68.20	27.64	263	129	PK
8	10360.0000	18.70	14.09	32.79	54.00	21.21	171	241	AV
9	15540.0000	22.92	19.38	42.30	74.00	31.70	315	3	PK
10	15540.0000	14.56	19.38	33.94	54.00	20.06	303	198	AV

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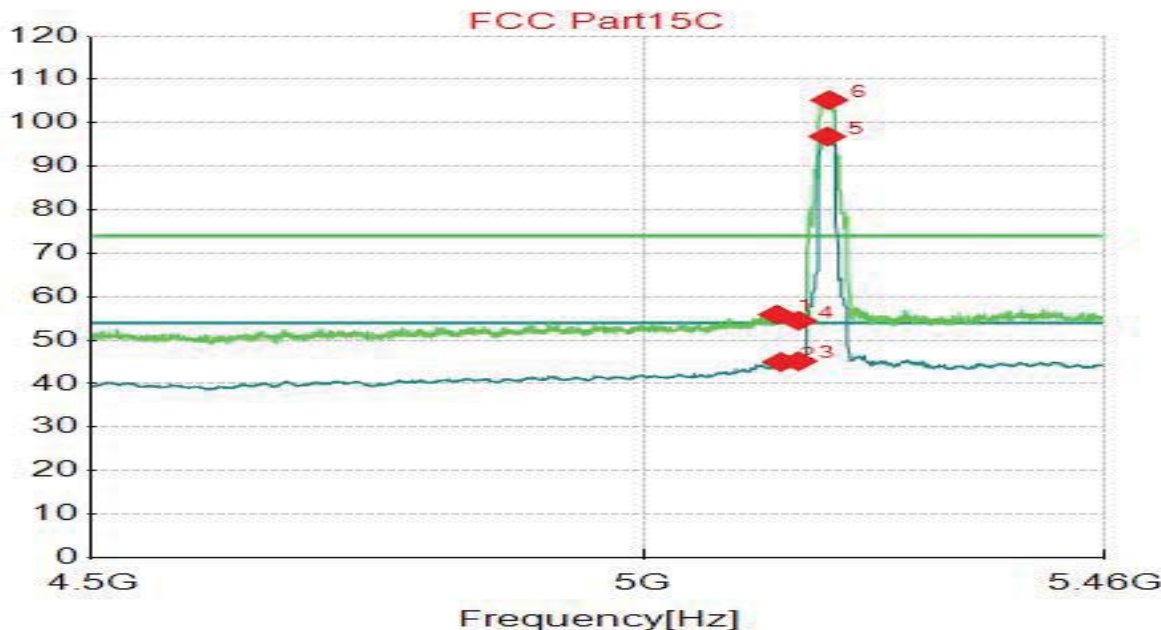
Frequency[Hz]

Remark: 1. The emission levels of other frequencies were greater than 20dB margin.
2. Level (dBμV/m) = Reading (dBμV/m) + Factor (dB).
3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
4. Margin(dB) = Limit[dBμV/m] - Level [dBμV/m]



Channel	802.11a CH36			Frequency	5180 MHz				
Frequency Range	Above 1G			Detector Function	PK/AV				
Vertical									
NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector
1	5129.1146	47.67	8.21	55.88	74.00	18.12	100	3	PK
2	5132.9565	36.83	8.16	44.99	54.00	9.01	185	1	AV
3	5150.0000	37.13	8.03	45.16	54.00	8.84	121	1	AV
4	5150.0000	46.46	8.03	54.49	74.00	19.51	102	1	PK
5	5178.5793	88.98	7.90	96.88			190	1	AV
6	5180.5003	97.32	7.90	105.22			246	1	PK
7	10360.0000	28.03	14.09	42.12	68.20	26.08	160	353	PK
8	10360.0000	18.76	14.09	32.85	54.00	21.15	200	334	AV
9	15540.0000	23.47	19.38	42.85	74.00	31.15	208	218	PK
10	15540.0000	15.06	19.38	34.44	54.00	19.56	345	261	AV

FCC Part15C



Frequency[Hz]

Remark: 1. The emission levels of other frequencies were greater than 20dB margin.
2. Level (dBμV/m) = Reading (dBμV/m) + Factor (dB).
3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
4. Margin(dB) = Limit[dBμV/m] - Level [dBμV/m]

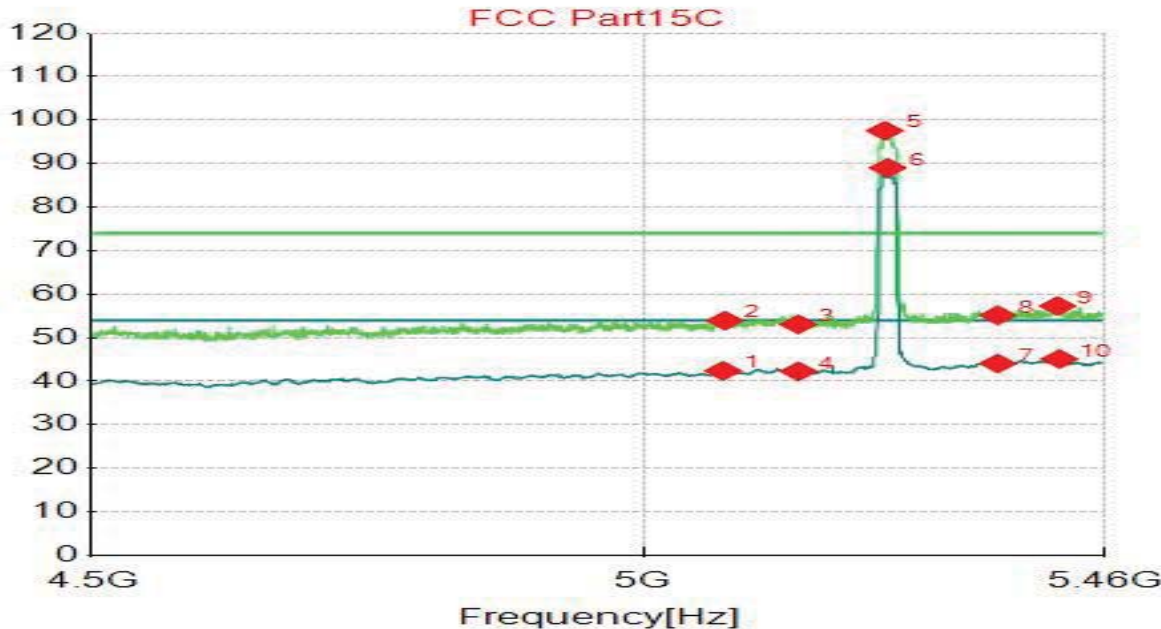


Channel		802.11a CH 40		Frequency		5200MHz			
Frequency Range		Above 1G		Detector Function		PK/AV			
Horizontal									
NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector
1	10400.0000	27.25	14.30	41.55	68.20	26.65	104	276	PK
2	10400.0000	18.15	14.30	32.45	54.00	21.55	116	345	AV
3	15600.0000	22.39	19.58	41.97	74.00	32.03	228	142	PK
4	15600.0000	14.02	19.58	33.60	54.00	20.40	391	316	AV
Vertical									
NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Remark
1	10400.0000	27.71	14.30	42.01	68.20	26.19	334	69	PK
2	10400.0000	18.43	14.30	32.73	54.00	21.27	371	66	AV
3	15600.0000	23.72	19.58	43.30	74.00	30.70	200	26	PK
4	15600.0000	13.83	19.58	33.41	54.00	20.59	314	102	AV
Remark: 1. The emission levels of other frequencies were greater than 20dB margin. 2. Level (dBuV/m) = Reading (dBuV/m) + Factor (dB). 3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB). 4. Margin(dB) = Limit[dBμV/m] - Level [dBμV/m]									



Channel	802.11a CH48			Frequency	5240 MHz				
Frequency Range	Above 1G			Detector Function	PK/AV				
Horizontal									
NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector
1	5076.2881	34.73	7.66	42.39	54.00	11.61	298	65	AV
2	5078.2091	46.18	7.74	53.92	74.00	20.08	389	304	PK
3	5150.0000	45.03	8.03	53.06	74.00	20.94	142	10	PK
4	5150.0000	34.24	8.03	42.27	54.00	11.73	370	136	AV
5	5235.7279	89.33	8.21	97.54			198	230	PK
6	5238.6093	80.79	8.21	89.00			282	230	AV
7	5350.0000	34.10	9.96	44.06	54.00	9.94	199	138	AV
8	5350.0000	45.18	9.96	55.14	74.00	18.86	105	151	PK
9	5411.4957	47.07	10.21	57.28	74.00	16.72	357	183	PK
10	5413.4167	34.99	10.11	45.10	54.00	8.90	170	142	AV
11	10480.0000	26.52	14.45	40.97	68.20	27.23	127	340	PK
12	10480.0000	17.48	14.45	31.93	54.00	22.07	138	46	AV
13	15720.0000	22.86	20.55	43.41	74.00	30.59	386	286	PK
14	15720.0000	14.22	20.55	34.77	54.00	19.23	374	286	AV

FCC Part15C



Frequency[Hz]

Remark: 1. The emission levels of other frequencies were greater than 20dB margin.
2. Level (dBμV/m) = Reading (dBμV/m) + Factor (dB).
3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
4. Margin(dB) = Limit[dBμV/m] - Level [dBμV/m]



Channel	802.11a CH48			Frequency	5240 MHz				
Frequency Range	Above 1G			Detector Function	PK/AV				
Vertical									
NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector
1	5131.9960	37.35	8.19	45.54	54.00	8.46	181	279	AV
2	5134.8774	48.95	8.10	57.05	74.00	16.95	208	283	PK
3	5150.0000	47.79	8.03	55.82	74.00	18.18	186	281	PK
4	5150.0000	37.54	8.03	45.57	54.00	8.43	220	290	AV
5	5238.6093	101.59	8.21	109.80			304	292	PK
6	5239.0895	93.28	8.22	101.50			255	288	AV
7	5350.0000	36.00	9.96	45.96	54.00	8.04	359	292	AV
8	5350.0000	46.13	9.96	56.09	74.00	17.91	188	281	PK
9	5373.5568	47.29	10.00	57.29	74.00	16.71	390	275	PK
10	5377.8789	35.82	10.08	45.90	54.00	8.10	293	292	AV
11	10480.0000	28.01	14.45	42.46	68.20	25.74	133	9	PK
12	10480.0000	17.56	14.45	32.01	54.00	21.99	181	175	AV
13	15720.0000	22.18	20.55	42.73	74.00	31.27	158	323	PK
14	15720.0000	13.56	20.55	34.11	54.00	19.89	388	139	AV

FCC Part15C

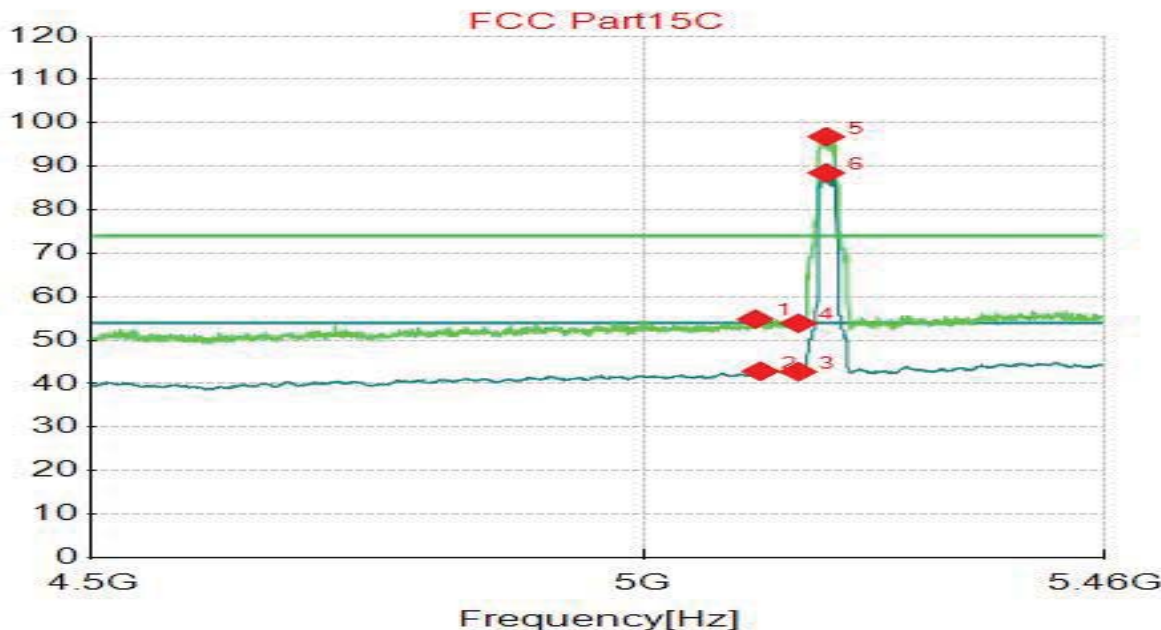
Frequency[Hz]

Remark: 1. The emission levels of other frequencies were greater than 20dB margin.
2. Level (dBuV/m) = Reading (dBuV/m) + Factor (dB).
3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
4. Margin(dB) = Limit[dBuV/m] - Level [dBuV/m]



Channel	802.11n20 CH36			Frequency	5180 MHz				
Frequency Range	Above 1G			Detector Function	PK/AV				
Horizontal									
NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector
1	5107.9840	46.87	7.97	54.84	74.00	19.16	296	332	PK
2	5112.7864	34.88	7.99	42.87	54.00	11.13	293	237	AV
3	5150.0000	34.72	8.03	42.75	54.00	11.25	274	260	AV
4	5150.0000	45.87	8.03	53.90	74.00	20.10	358	134	PK
5	5177.6188	88.92	7.89	96.81			400	144	PK
6	5177.6188	80.59	7.89	88.48			149	140	AV
7	10360.0000	27.45	14.09	41.54	68.20	26.66	367	72	PK
8	10360.0000	18.30	14.09	32.39	54.00	21.61	373	351	AV
9	15540.0000	24.33	19.38	43.71	74.00	30.29	250	22	PK
10	15540.0000	14.46	19.38	33.84	54.00	20.16	146	169	AV

FCC Part15C



Frequency[Hz]

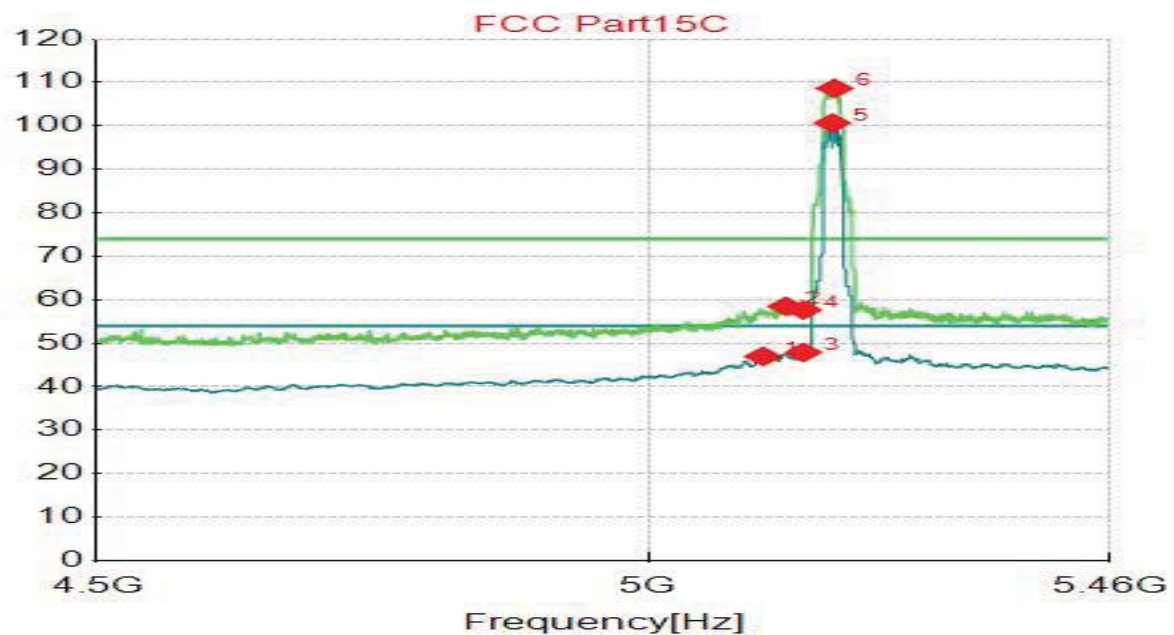
Remark: 1. The emission levels of other frequencies were greater than 20dB margin.
2. Level (dBμV/m) = Reading (dBμV/m) + Factor (dB).
3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
4. Margin(dB) = Limit[dBμV/m] - Level [dBμV/m]



Channel	802.11n20 CH36	Frequency	5180 MHz
Frequency Range	Above 1G	Detector Function	PK/AV

Vertical

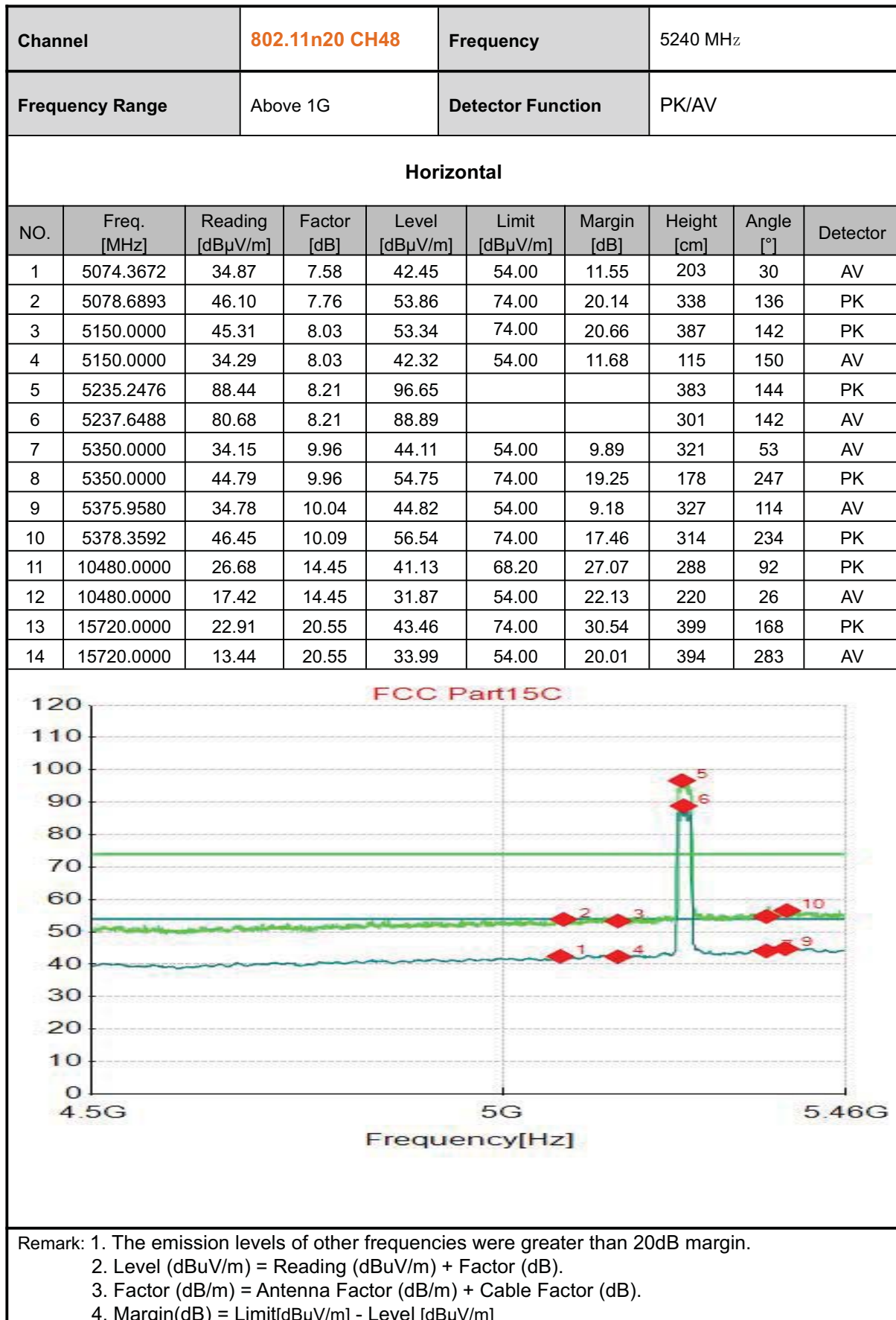
NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector
1	5110.3852	38.89	8.07	46.96	54.00	7.04	334	274	AV
2	5132.9565	50.30	8.16	58.46	74.00	15.54	300	300	PK
3	5150.0000	39.85	8.03	47.88	54.00	6.12	190	287	AV
4	5150.0000	49.60	8.03	57.63	74.00	16.37	188	300	PK
5	5178.5793	92.73	7.90	100.63			344	281	AV
6	5180.9805	100.72	7.89	108.61			321	281	PK
7	10360.0000	28.52	14.09	42.61	68.20	25.59	215	332	PK
8	10360.0000	18.15	14.09	32.24	54.00	21.76	208	49	AV
9	15540.0000	23.99	19.38	43.37	74.00	30.63	130	360	PK
10	15540.0000	15.36	19.38	34.74	54.00	19.26	296	355	AV



Remark: 1. The emission levels of other frequencies were greater than 20dB margin.
2. Level (dBμV/m) = Reading (dBμV/m) + Factor (dB).
3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
4. Margin(dB) = Limit[dBμV/m] - Level [dBμV/m]



Channel		802.11n20 CH 40		Frequency		5200MHz			
Frequency Range		Above 1G		Detector Function		PK/AV			
Horizontal									
NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector
1	10400.0000	26.49	14.30	40.79	68.20	27.41	163	29	PK
2	10400.0000	17.90	14.30	32.20	54.00	21.80	274	174	AV
3	15600.0000	25.07	19.58	44.65	74.00	29.35	387	1	PK
4	15600.0000	14.07	19.58	33.65	54.00	20.35	195	23	AV
Vertical									
NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Remark
1	10400.0000	28.98	14.30	43.28	68.20	24.92	242	142	PK
2	10400.0000	18.12	14.30	32.42	54.00	21.58	162	53	AV
3	15600.0000	23.02	19.58	42.60	74.00	31.40	132	304	PK
4	15600.0000	13.70	19.58	33.28	54.00	20.72	211	6	AV
Remark: 1. The emission levels of other frequencies were greater than 20dB margin. 2. Level (dBuV/m) = Reading (dBuV/m) + Factor (dB). 3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB). 4. Margin(dB) = Limit[dBμV/m] - Level [dBμV/m]									

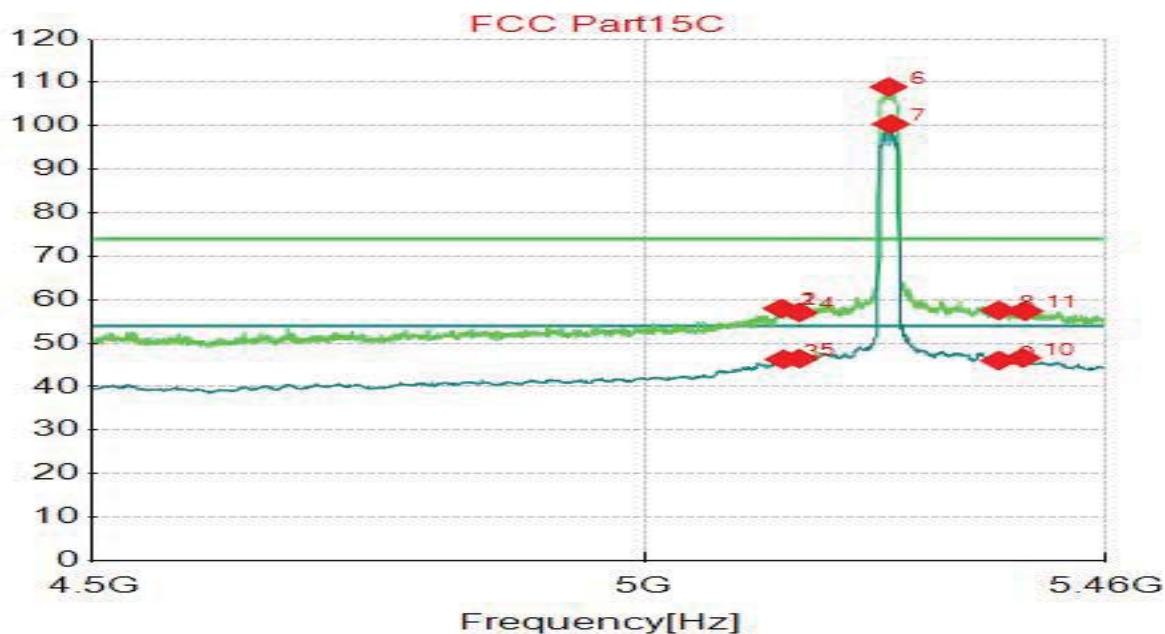




Channel	802.11n20 CH48	Frequency	5240 MHz
Frequency Range	Above 1G	Detector Function	PK/AV

Vertical

NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector
1	5132.4762	49.80	8.17	57.97	74.00	16.03	124	292	PK
2	5132.4762	49.80	8.17	57.97	74.00	16.03	207	292	PK
3	5134.3972	38.18	8.11	46.29	54.00	7.71	304	290	AV
4	5150.0000	49.05	8.03	57.08	74.00	16.92	134	267	PK
5	5150.0000	38.41	8.03	46.44	54.00	7.56	346	292	AV
6	5238.6093	100.72	8.21	108.93			265	307	PK
7	5241.0105	92.20	8.22	100.42			182	299	AV
8	5350.0000	47.57	9.96	57.53	74.00	16.47	320	292	PK
9	5350.0000	36.05	9.96	46.01	54.00	7.99	168	307	AV
10	5374.5173	36.58	10.02	46.60	54.00	7.40	329	282	AV
11	10480.0000	27.06	14.45	41.51	68.20	26.69	212	69	PK
12	10480.0000	17.58	14.45	32.03	54.00	21.97	259	182	AV
13	15720.0000	24.18	20.55	44.73	74.00	29.27	245	49	PK
14	15720.0000	13.95	20.55	34.50	54.00	19.50	187	324	AV



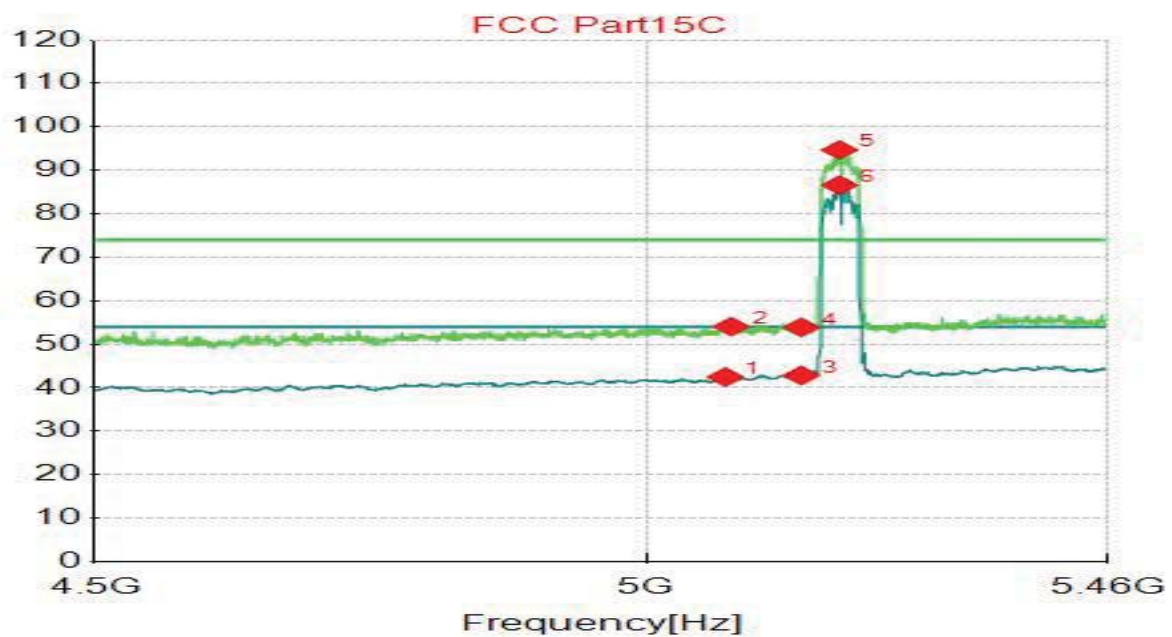
Remark: 1. The emission levels of other frequencies were greater than 20dB margin.
2. Level (dBμV/m) = Reading (dBμV/m) + Factor (dB).
3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
4. Margin(dB) = Limit[dBμV/m] - Level [dBμV/m]



Channel	802.11n40 CH38	Frequency	5190 MHz
Frequency Range	Above 1G	Detector Function	PK/AV

Horizontal

NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector
1	5075.8079	34.80	7.64	42.44	54.00	11.56	202	229	AV
2	5081.5708	46.26	7.78	54.04	74.00	19.96	354	338	PK
3	5150.0000	34.78	8.03	42.81	54.00	11.19	183	148	AV
4	5150.0000	45.84	8.03	53.87	74.00	20.13	225	220	PK
5	5187.7039	86.99	7.70	94.69			146	140	PK
6	5187.7039	78.89	7.70	86.59			250	142	AV
7	10380.0000	27.40	14.14	41.54	68.20	26.66	152	56	PK
8	10380.0000	17.79	14.14	31.93	54.00	22.07	207	223	AV
9	15570.0000	22.53	19.64	42.17	74.00	31.83	237	279	PK
10	15570.0000	13.88	19.64	33.52	54.00	20.48	163	285	AV

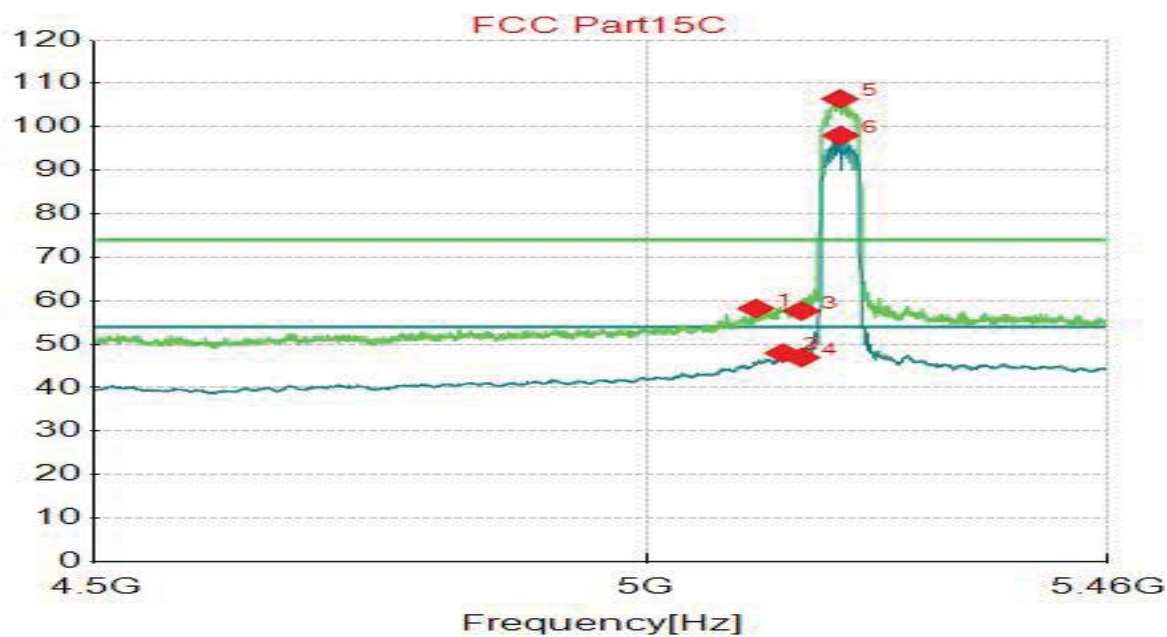


Remark: 1. The emission levels of other frequencies were greater than 20dB margin.
2. Level (dBμV/m) = Reading (dBμV/m) + Factor (dB).
3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
4. Margin(dB) = Limit[dBμV/m] - Level [dBμV/m]

Channel	802.11n40 CH38	Frequency	5190 MHz
Frequency Range	Above 1G	Detector Function	PK/AV

Vertical

NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector
1	5105.5828	50.38	7.84	58.22	74.00	15.78	114	281	PK
2	5131.9960	39.78	8.19	47.97	54.00	6.03	180	290	AV
3	5150.0000	49.62	8.03	57.65	74.00	16.35	156	266	PK
4	5150.0000	38.90	8.03	46.93	54.00	7.07	215	294	AV
5	5188.1841	98.73	7.69	106.42			297	281	PK
6	5188.6643	90.34	7.68	98.02			122	298	AV
7	10380.0000	27.35	14.14	41.49	68.20	26.71	171	283	PK
8	10380.0000	17.92	14.14	32.06	54.00	21.94	339	210	AV
9	15570.0000	22.93	19.64	42.57	74.00	31.43	379	62	PK
10	15570.0000	13.94	19.64	33.58	54.00	20.42	298	42	AV



Remark: 1. The emission levels of other frequencies were greater than 20dB margin.
2. Level (dBμV/m) = Reading (dBμV/m) + Factor (dB).
3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
4. Margin(dB) = Limit[dBμV/m] - Level [dBμV/m]



Channel	802.11n40 CH46		Frequency	5230 MHz					
Frequency Range	Above 1G		Detector Function	PK/AV					
Horizontal									
NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector
1	5073.4067	46.86	7.54	54.40	74.00	19.60	202	11	PK
2	5076.7684	34.53	7.68	42.21	54.00	11.79	92	103	AV
3	5150.0000	34.37	8.03	42.40	54.00	11.60	352	141	AV
4	5150.0000	45.17	8.03	53.20	74.00	20.80	39	265	PK
5	5227.5638	78.73	8.20	86.93			237	141	AV
6	5232.8464	87.23	8.20	95.43			34	145	PK
7	5350.0000	45.72	9.96	55.68	74.00	18.32	325	208	PK
8	5350.0000	34.19	9.96	44.15	54.00	9.85	355	296	AV
9	5375.4777	34.71	10.03	44.74	54.00	9.26	365	229	AV
10	5378.3592	47.28	10.09	57.37	74.00	16.63	177	183	PK
11	10460.0000	26.96	14.59	41.55	68.20	26.65	148	149	PK
12	10460.0000	16.95	14.59	31.54	54.00	22.46	259	264	AV
13	15690.0000	13.99	20.46	34.45	54.00	19.55	314	23	AV
14	15690.0000	23.82	20.46	44.28	74.00	29.72	318	46	PK

FCC Part15C

Remark: 1. The emission levels of other frequencies were greater than 20dB margin.
2. Level (dBμV/m) = Reading (dBμV/m) + Factor (dB).
3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
4. Margin(dB) = Limit[dBμV/m] - Level [dBμV/m]



Channel	802.11n40 CH46	Frequency	5230 MHz						
Frequency Range	Above 1G	Detector Function	PK/AV						
Vertical									
NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector
1	5128.1541	49.03	8.16	57.19	74.00	16.81	287	269	PK
2	5131.9960	38.60	8.19	46.79	54.00	7.21	399	298	AV
3	5150.0000	38.23	8.03	46.26	54.00	7.74	32	288	AV
4	5150.0000	48.94	8.03	56.97	74.00	17.03	201	298	PK
5	5228.5243	99.51	8.20	107.71			277	290	PK
6	5231.4057	90.09	8.20	98.29			98	306	AV
7	5350.0000	35.74	9.96	45.70	54.00	8.30	104	298	AV
8	5350.0000	46.36	9.96	56.32	74.00	17.68	225	266	PK
9	5376.4382	36.22	10.05	46.27	54.00	7.73	270	302	AV
10	5386.0430	47.58	10.08	57.66	74.00	16.34	107	304	PK
11	10460.0000	26.22	14.59	40.81	68.20	27.39	140	211	PK
12	10460.0000	17.09	14.59	31.68	54.00	22.32	243	79	AV
13	15690.0000	14.58	20.46	35.04	54.00	18.96	184	76	AV
14	15690.0000	24.02	20.46	44.48	74.00	29.52	376	115	PK

FCC Part15C

Level[dBμV/m]

Frequency[Hz]

Remark: 1. The emission levels of other frequencies were greater than 20dB margin.
2. Level (dBμV/m) = Reading (dBμV/m) + Factor (dB).
3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
4. Margin(dB) = Limit[dBμV/m] - Level [dBμV/m]



Channel		802.11ac80 CH42		Frequency		5210 MHz			
Frequency Range		Above 1G		Detector Function		PK/AV			
Horizontal									
NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector
1	5100.3002	47.05	7.57	54.62	74.00	19.38	100	77	PK
2	5111.3457	34.73	8.03	42.76	54.00	11.24	291	302	AV
3	5150.0000	34.44	8.03	42.47	54.00	11.53	198	141	AV
4	5150.0000	45.38	8.03	53.41	74.00	20.59	216	0	PK
5	5205.9530	82.19	8.20	90.39			299	141	PK
6	5213.1566	72.40	8.46	80.86			250	141	AV
7	5350.0000	45.54	9.96	55.50	74.00	18.50	14	88	PK
8	5350.0000	34.32	9.96	44.28	54.00	9.72	348	255	AV
9	5372.5963	47.03	9.98	57.01	74.00	16.99	382	351	PK
10	5374.9975	34.81	10.02	44.83	54.00	9.17	252	170	AV
11	5118.0690	49.87	7.82	57.69	74.00	16.31	100	273	PK
12	5137.2786	39.30	8.02	47.32	54.00	6.68	291	290	AV
13	5150.0000	39.83	8.03	47.86	54.00	6.14	198	265	AV
14	5150.0000	50.42	8.03	58.45	74.00	15.55	216	294	PK

FCC Part15C

Level[dBμV/m]

Frequency[Hz]

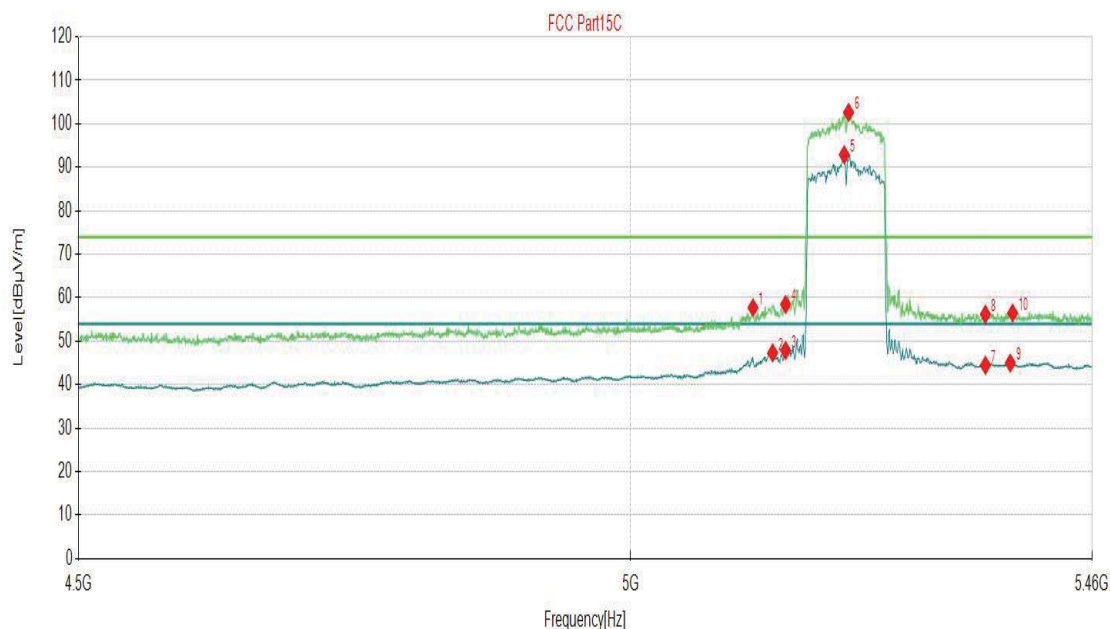
Remark: 1. The emission levels of other frequencies were greater than 20dB margin.
2. Level (dBμV/m) = Reading (dBμV/m) + Factor (dB).
3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
4. Margin(dB) = Limit[dBμV/m] - Level [dBμV/m]



Channel	802.11ac80 CH42	Frequency	5210 MHz
Frequency Range	Above 1G	Detector Function	PK/AV

Vertical

NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector
1	5118.0690	49.87	7.82	57.69	74.00	16.31	240	273	PK
2	5137.2786	39.30	8.02	47.32	54.00	6.68	379	290	AV
3	5150.0000	39.83	8.03	47.86	54.00	6.14	333	265	AV
4	5150.0000	50.42	8.03	58.45	74.00	15.55	299	294	PK
5	5207.8739	84.50	8.38	92.88			214	299	AV
6	5212.1961	94.12	8.50	102.62			132	292	PK
7	5350.0000	34.49	9.96	44.45	54.00	9.55	353	114	AV
8	5350.0000	46.23	9.96	56.19	74.00	17.81	389	72	PK
9	5375.4777	34.94	10.03	44.97	54.00	9.03	397	305	AV
10	5377.8789	46.40	10.08	56.48	74.00	17.52	231	301	PK
11	10420.0000	26.84	14.27	41.11	68.20	27.09	327	310	PK
12	10420.0000	17.35	14.27	31.62	54.00	22.38	239	287	AV
13	15630.0000	23.98	20.00	43.98	74.00	30.02	344	26	PK
14	15630.0000	14.53	20.00	34.53	54.00	19.47	383	227	AV



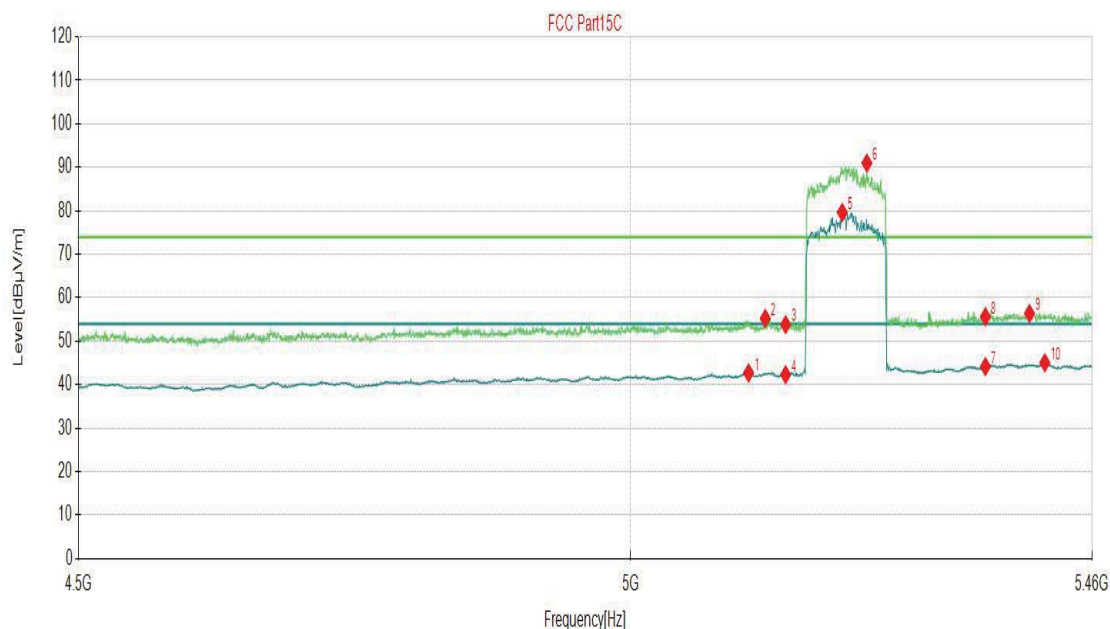
Remark: 1. The emission levels of other frequencies were greater than 20dB margin.
2. Level (dBμV/m) = Reading (dBμV/m) + Factor (dB).
3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
4. Margin(dB) = Limit[dBμV/m] - Level [dBμV/m]



Channel	802.11ax80 CH42	Frequency	5210 MHz
Frequency Range	Above 1G	Detector Function	PK/AV

Horizontal

NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector
1	5113.7469	34.73	7.96	42.69	54.00	11.31	116	359	AV
2	5130.0750	46.99	8.25	55.24	74.00	18.76	163	39	PK
3	5150.0000	45.80	8.03	53.83	74.00	20.17	189	46	PK
4	5150.0000	34.25	8.03	42.28	54.00	11.72	14	94	AV
5	5205.9530	71.43	8.20	79.63			103	138	AV
6	5230.4452	82.76	8.20	90.96			25	140	PK
7	5350.0000	34.19	9.96	44.15	54.00	9.85	77	124	AV
8	5350.0000	45.69	9.96	55.65	74.00	18.35	346	309	PK
9	5395.1676	46.34	10.04	56.38	74.00	17.62	313	107	PK
10	5411.0155	34.81	10.24	45.05	54.00	8.95	81	180	AV
11	10420.0000	27.42	14.27	41.69	68.20	26.51	259	264	PK
12	10420.0000	17.69	14.27	31.96	54.00	22.04	222	142	AV
13	15630.0000	22.93	20.00	42.93	74.00	31.07	136	145	PK
14	15630.0000	14.56	20.00	34.56	54.00	19.44	400	155	AV



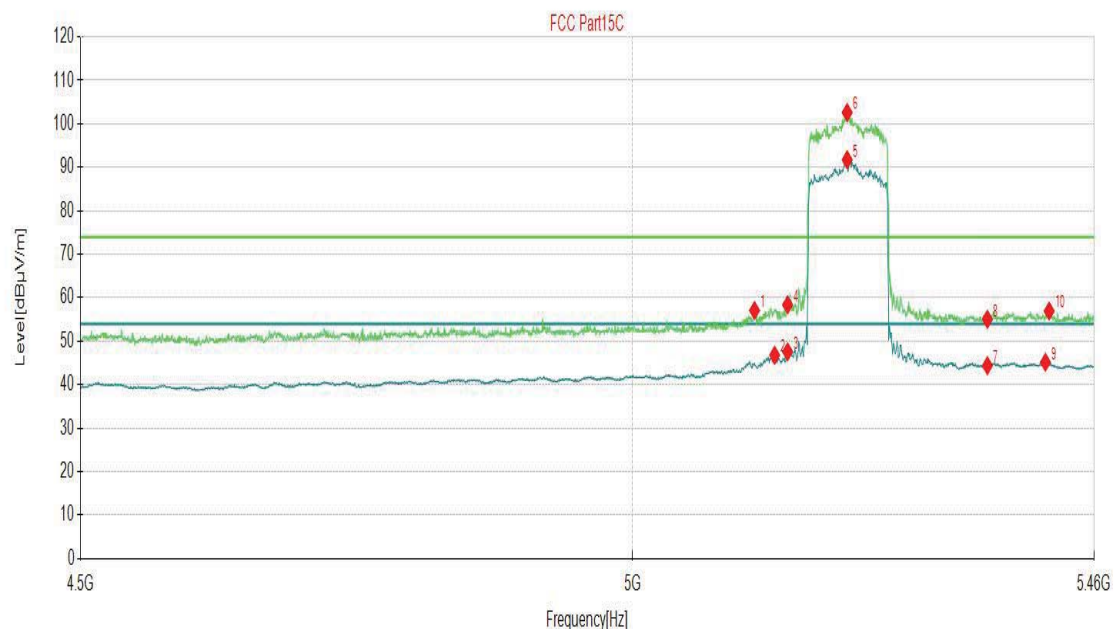
Remark: 1. The emission levels of other frequencies were greater than 20dB margin.
2. Level (dBμV/m) = Reading (dBμV/m) + Factor (dB).
3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
4. Margin(dB) = Limit[dBμV/m] - Level [dBμV/m]



Channel	802.11ax80 CH42	Frequency	5210 MHz
Frequency Range	Above 1G	Detector Function	PK/AV

Vertical

NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector
1	5117.5888	49.25	7.83	57.08	74.00	16.92	154	291	PK
2	5137.2786	38.76	8.02	46.78	54.00	7.22	181	274	AV
3	5150.0000	39.54	8.03	47.57	54.00	6.43	167	295	AV
4	5150.0000	50.33	8.03	58.36	74.00	15.64	395	303	PK
5	5208.8344	83.28	8.47	91.75			131	291	AV
6	5208.8344	94.13	8.47	102.60			24	291	PK
7	5350.0000	34.42	9.96	44.38	54.00	9.62	46	295	AV
8	5350.0000	45.09	9.96	55.05	74.00	18.95	391	120	PK
9	5409.5748	34.89	10.28	45.17	54.00	8.83	98	47	AV
10	5413.4167	46.82	10.11	56.93	74.00	17.07	45	99	PK
11	10420.0000	26.69	14.27	40.96	68.20	27.24	264	46	PK
12	10420.0000	17.35	14.27	31.62	54.00	22.38	269	260	AV
13	15630.0000	24.29	20.00	44.29	74.00	29.71	286	158	PK
14	15630.0000	14.08	20.00	34.08	54.00	19.92	261	293	AV



Remark: 1. The emission levels of other frequencies were greater than 20dB margin.
2. Level (dBμV/m) = Reading (dBμV/m) + Factor (dB).
3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
4. Margin(dB) = Limit[dBμV/m] - Level [dBμV/m]



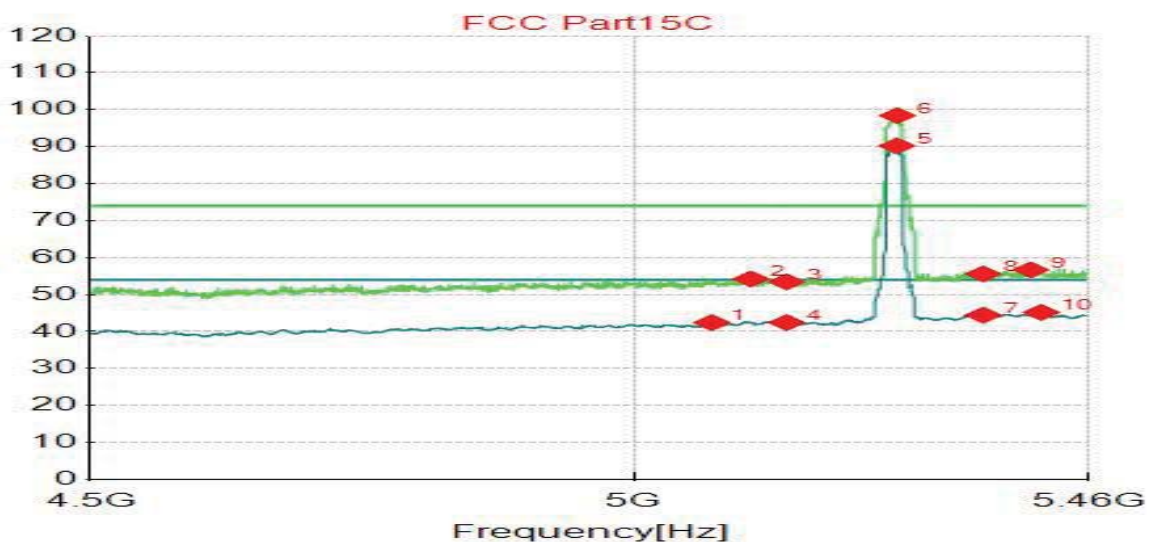
3.1.7 TEST RESULTS - Band 2 (5260-5320MHz):

ABOVE 1GHz DATA

Channel	802.11a CH52	Frequency	5260 MHz
Frequency Range	Above 1G	Detector Function	PK/AV

Horizontal

NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector
1	5075.8079	34.77	7.64	42.41	54.00	11.59	252	276	AV
2	5114.2271	46.27	7.94	54.21	74.00	19.79	203	152	PK
3	5150.0000	45.41	8.03	53.44	74.00	20.56	396	139	PK
4	5150.0000	34.40	8.03	42.43	54.00	11.57	351	15	AV
5	5261.1806	80.96	9.27	90.23			356	232	AV
6	5261.6608	89.17	9.24	98.41			126	232	PK
7	5350.0000	34.46	9.96	44.42	54.00	9.58	213	133	AV
8	5350.0000	45.62	9.96	55.58	74.00	18.42	149	109	PK
9	5399.4897	46.65	10.02	56.67	74.00	17.33	151	308	PK
10	5410.5353	34.90	10.27	45.17	54.00	8.83	269	97	AV
11	10520.0000	26.31	14.32	40.63	68.20	27.57	110	79	PK
12	10520.0000	17.55	14.32	31.87	54.00	22.13	102	189	AV
13	15780.0000	22.63	20.63	43.26	74.00	30.74	355	232	PK
14	15780.0000	12.99	20.63	33.62	54.00	20.38	231	139	AV



Remark: 1. The emission levels of other frequencies were greater than 20dB margin.

2. Level (dBμV/m) = Reading (dBμV/m) + Factor (dB).

3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).

4. Margin(dB) = Limit[dBμV/m] - Level [dBμV/m]



Channel	802.11a CH52			Frequency	5260 MHz				
Frequency Range	Above 1G			Detector Function	PK/AV				
Vertical									
NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector
1	5061.8809	48.06	7.36	55.42	74.00	18.58	307	170	PK
2	5134.8774	35.96	8.10	44.06	54.00	9.94	356	292	AV
3	5150.0000	35.95	8.03	43.98	54.00	10.02	191	301	AV
4	5150.0000	47.36	8.03	55.39	74.00	18.61	226	263	PK
5	5259.2596	93.42	9.27	102.69			232	296	AV
6	5259.7399	101.97	9.32	111.29			118	296	PK
7	5350.0000	47.85	9.96	57.81	74.00	16.19	247	280	PK
8	5350.0000	36.80	9.96	46.76	54.00	7.24	274	299	AV
9	5374.5173	36.44	10.02	46.46	54.00	7.54	286	294	AV
10	5378.8394	47.92	10.10	58.02	74.00	15.98	286	288	PK
11	10520.0000	27.01	14.32	41.33	68.20	26.87	381	59	PK
12	10520.0000	17.92	14.32	32.24	54.00	21.76	350	138	AV
13	15780.0000	22.26	20.63	42.89	74.00	31.11	138	198	PK
14	15780.0000	13.67	20.63	34.30	54.00	19.70	365	42	AV

FCC Part15C

Frequency[Hz]

Remark: 1. The emission levels of other frequencies were greater than 20dB margin.
2. Level (dBμV/m) = Reading (dBμV/m) + Factor (dB).
3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
4. Margin(dB) = Limit[dBμV/m] - Level [dBμV/m]



Channel		802.11a CH 56		Frequency		5280MHz			
Frequency Range		Above 1G		Detector Function		PK/AV			
Horizontal									
NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector
1	10560.0000	27.43	14.32	41.75	68.20	26.45	339	29	PK
2	10560.0000	18.68	14.32	33.00	54.00	21.00	134	295	AV
3	15840.0000	22.69	20.59	43.28	74.00	30.72	214	98	PK
4	15840.0000	14.40	20.59	34.99	54.00	19.01	306	3	AV
Vertical									
NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Remark
1	10560.0000	27.84	14.32	42.16	68.20	26.04	193	177	PK
2	10560.0000	17.96	14.32	32.28	54.00	21.72	343	121	AV
3	15840.0000	23.17	20.59	43.76	74.00	30.24	110	105	PK
4	15840.0000	13.79	20.59	34.38	54.00	19.62	145	334	AV
Remark: 1. The emission levels of other frequencies were greater than 20dB margin. 2. Level (dBuV/m) = Reading (dBuV/m) + Factor (dB). 3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB). 4. Margin(dB) = Limit[dBuV/m] - Level [dBuV/m]									



Channel	802.11a CH64			Frequency	5320 MHz				
Frequency Range	Above 1G			Detector Function	PK/AV				
Horizontal									
NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector
1	5318.8094	88.51	9.00	97.51			300	227	AV
2	5321.2106	81.06	9.04	90.10			320	227	PK
3	5350.0000	45.43	9.96	55.39	74.00	18.61	284	148	PK
4	5350.0000	34.50	9.96	44.46	54.00	9.54	321	144	AV
5	5372.5963	47.73	9.98	57.71	74.00	16.29	269	28	PK
6	5377.8789	34.78	10.08	44.86	54.00	9.14	133	125	AV
7	10640.0000	26.45	14.17	40.62	74.00	33.38	170	163	PK
8	10640.0000	17.96	14.17	32.13	54.00	21.87	298	281	AV
9	15960.0000	13.61	21.31	34.92	54.00	19.08	303	121	AV
10	15960.0000	23.46	21.31	44.77	74.00	29.23	311	347	PK

FCC Part15C

Frequency[Hz]

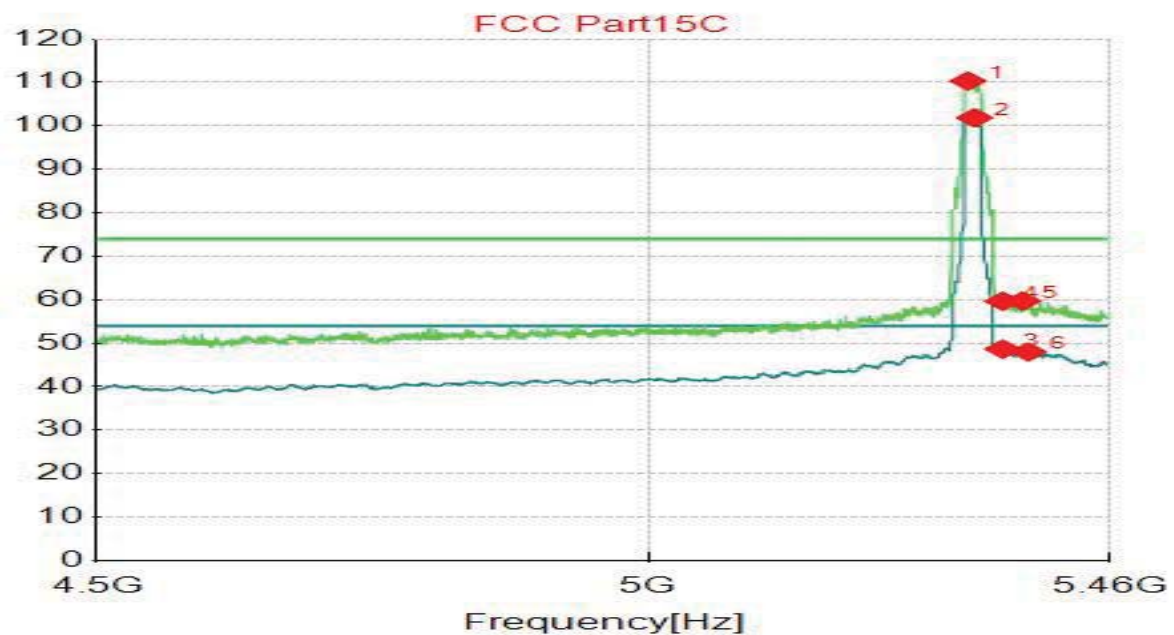
Remark: 1. The emission levels of other frequencies were greater than 20dB margin.
2. Level (dBμV/m) = Reading (dBμV/m) + Factor (dB).
3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
4. Margin(dB) = Limit[dBμV/m] - Level [dBμV/m]



Channel	802.11a CH64	Frequency	5320 MHz
Frequency Range	Above 1G	Detector Function	PK/AV

Vertical

NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector
1	5314.4872	101.20	9.11	110.31			212	291	PK
2	5321.2106	92.82	9.04	101.86			253	287	AV
3	5350.0000	38.69	9.96	48.65	54.00	5.35	166	295	AV
4	5350.0000	49.69	9.96	59.65	74.00	14.35	286	305	PK
5	5370.1951	49.76	9.93	59.69	74.00	14.31	166	262	PK
6	5375.9580	37.98	10.04	48.02	54.00	5.98	248	280	AV
7	10640.0000	28.40	14.17	42.57	74.00	31.43	315	345	PK
8	10640.0000	17.80	14.17	31.97	54.00	22.03	312	1	AV
9	15960.0000	22.24	21.31	43.55	74.00	30.45	260	52	PK
10	15960.0000	13.82	21.31	35.13	54.00	18.87	140	127	AV

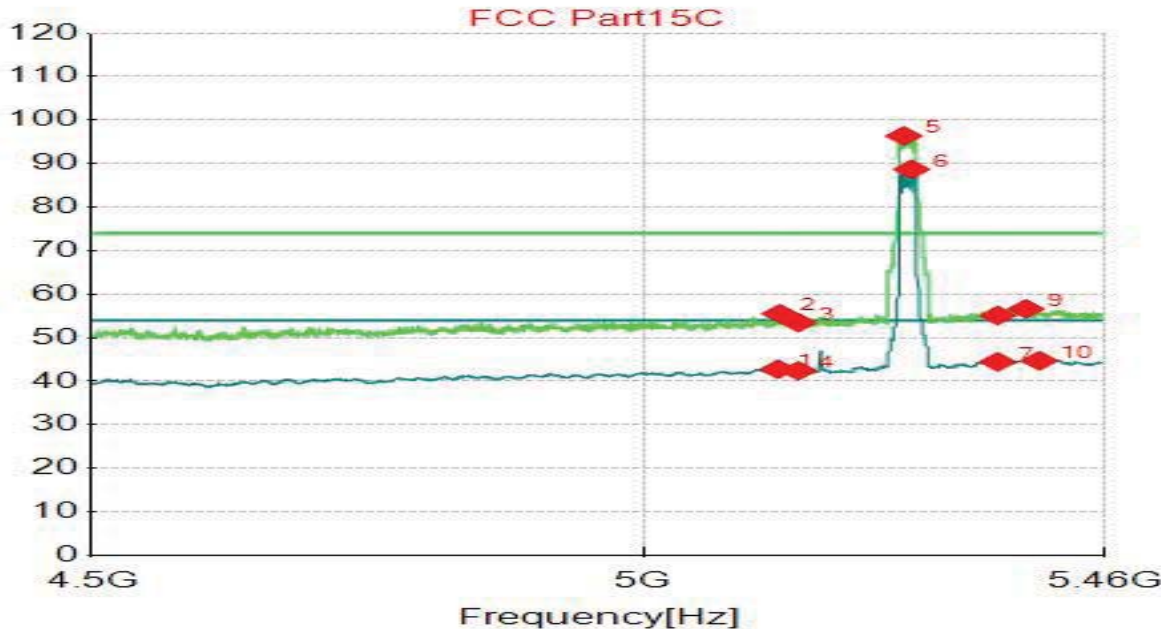


Remark: 1. The emission levels of other frequencies were greater than 20dB margin.
2. Level (dBμV/m) = Reading (dBμV/m) + Factor (dB).
3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
4. Margin(dB) = Limit[dBμV/m] - Level [dBμV/m]



Channel		802.11n20 CH52		Frequency		5260 MHz			
Frequency Range		Above 1G		Detector Function		PK/AV			
Horizontal									
NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector
1	5130.0750	34.50	8.25	42.75	54.00	11.25	368	124	AV
2	5131.9960	47.29	8.19	55.48	74.00	18.52	115	297	PK
3	5150.0000	45.43	8.03	53.46	74.00	20.54	156	340	PK
4	5150.0000	34.38	8.03	42.41	54.00	11.59	202	340	AV
5	5254.9375	87.55	8.79	96.34			351	156	PK
6	5262.6213	79.51	9.17	88.68			266	151	AV
7	5350.0000	34.49	9.96	44.45	54.00	9.55	372	119	AV
8	5350.0000	45.15	9.96	55.11	74.00	18.89	309	299	PK
9	5378.8394	46.51	10.10	56.61	74.00	17.39	220	126	PK
10	5392.7664	34.65	10.05	44.70	54.00	9.30	399	57	AV
11	10520.0000	26.50	14.32	40.82	68.20	27.38	110	56	PK
12	10520.0000	18.27	14.32	32.59	54.00	21.41	239	56	AV
13	15780.0000	22.50	20.63	43.13	74.00	30.87	327	249	PK
14	15780.0000	13.30	20.63	33.93	54.00	20.07	314	56	AV

FCC Part15C



Frequency[Hz]

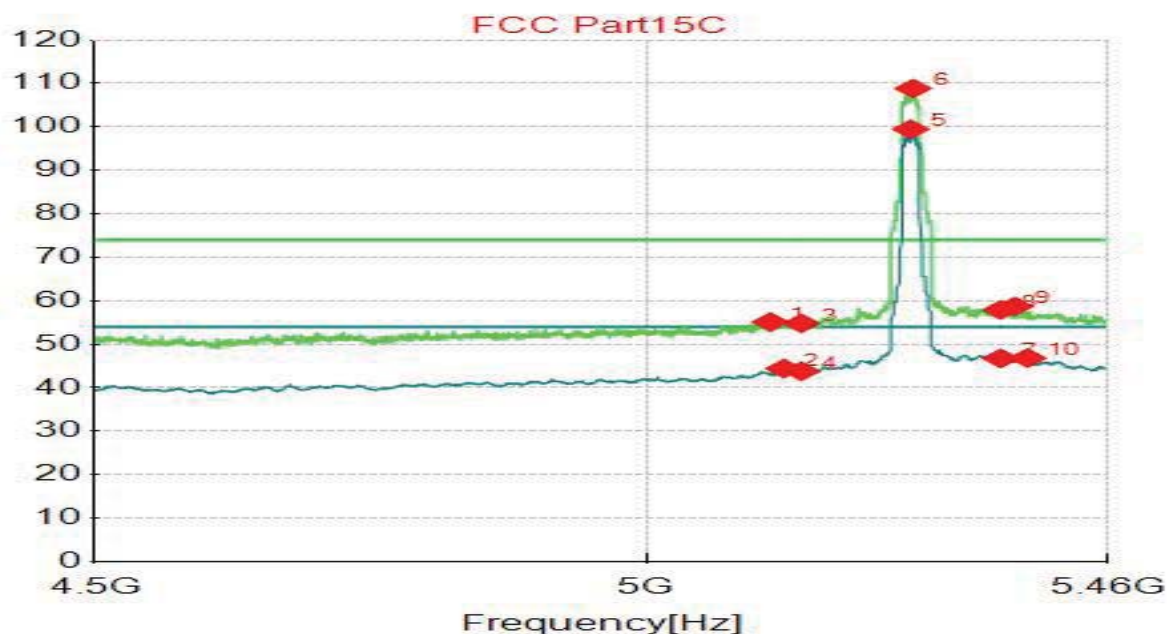
Remark: 1. The emission levels of other frequencies were greater than 20dB margin.
2. Level (dBuV/m) = Reading (dBuV/m) + Factor (dB).
3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
4. Margin(dB) = Limit[dBuV/m] - Level [dBuV/m]



Channel	802.11n20 CH52	Frequency	5260 MHz
Frequency Range	Above 1G	Detector Function	PK/AV

Vertical

NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector
1	5119.5098	47.34	7.77	55.11	74.00	18.89	332	270	PK
2	5132.9565	36.23	8.16	44.39	54.00	9.61	259	311	AV
3	5150.0000	46.78	8.03	54.81	74.00	19.19	193	93	PK
4	5150.0000	35.76	8.03	43.79	54.00	10.21	322	294	AV
5	5258.7794	90.24	9.22	99.46			284	307	AV
6	5261.1806	99.55	9.27	108.82			143	300	PK
7	5350.0000	36.78	9.96	46.74	54.00	7.26	178	302	AV
8	5350.0000	47.93	9.96	57.89	74.00	16.11	215	82	PK
9	5364.4322	48.69	10.00	58.69	74.00	15.31	195	296	PK
10	5377.3987	36.75	10.07	46.82	54.00	7.18	361	294	AV
11	10520.0000	27.20	14.32	41.52	68.20	26.68	205	200	PK
12	10520.0000	17.98	14.32	32.30	54.00	21.70	349	120	AV
13	15780.0000	21.92	20.63	42.55	74.00	31.45	199	341	PK
14	15780.0000	13.57	20.63	34.20	54.00	19.80	360	307	AV



Remark: 1. The emission levels of other frequencies were greater than 20dB margin.
2. Level (dBμV/m) = Reading (dBμV/m) + Factor (dB).
3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
4. Margin(dB) = Limit[dBμV/m] - Level [dBμV/m]

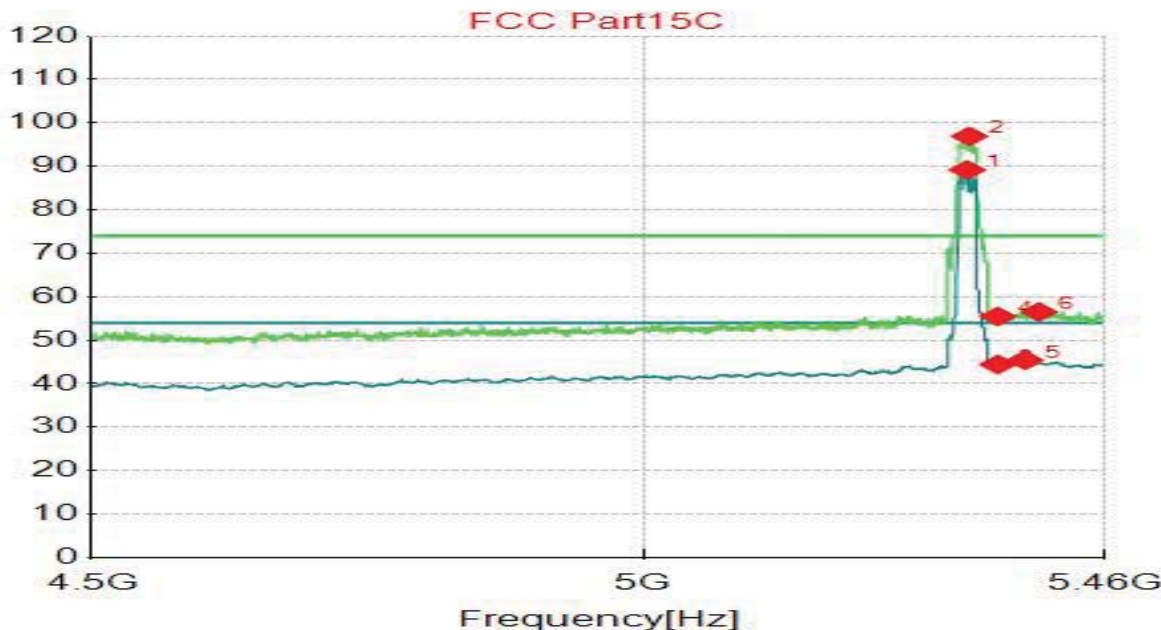


Channel		802.11n20 CH 56			Frequency		5280MHz		
Frequency Range		Above 1G			Detector Function		PK/AV		
Horizontal									
NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector
1	10560.0000	27.95	14.32	42.27	68.20	25.93	129	360	PK
2	10560.0000	18.12	14.32	32.44	54.00	21.56	253	299	AV
3	15840.0000	23.30	20.59	43.89	74.00	30.11	189	106	PK
4	15840.0000	13.85	20.59	34.44	54.00	19.56	302	86	AV
Vertical									
NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Remark
1	10560.0000	26.56	14.32	40.88	68.20	27.32	212	166	PK
2	10560.0000	18.26	14.32	32.58	54.00	21.42	298	152	AV
3	15840.0000	23.56	20.59	44.15	74.00	29.85	213	53	PK
4	15840.0000	14.32	20.59	34.91	54.00	19.09	276	272	AV
Remark: 1. The emission levels of other frequencies were greater than 20dB margin. 2. Level (dBuV/m) = Reading (dBuV/m) + Factor (dB). 3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB). 4. Margin(dB) = Limit[dBuV/m] - Level [dBuV/m]									



Channel	802.11n20 CH64	Frequency	5320 MHz						
Frequency Range	Above 1G	Detector Function	PK/AV						
Horizontal									
NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector
1	5318.8094	80.18	9.00	89.18			345	153	AV
2	5321.2106	87.86	9.04	96.90			289	153	PK
3	5350.0000	34.47	9.96	44.43	54.00	9.57	147	40	AV
4	5350.0000	45.51	9.96	55.47	74.00	18.53	392	306	PK
5	5377.8789	35.32	10.08	45.40	54.00	8.60	239	153	AV
6	5392.2861	46.45	10.05	56.50	74.00	17.50	228	34	PK
7	10640.0000	27.00	14.17	41.17	74.00	32.83	257	286	PK
8	10640.0000	17.57	14.17	31.74	54.00	22.26	396	247	AV
9	15960.0000	22.81	21.31	44.12	74.00	29.88	221	86	PK
10	15960.0000	13.77	21.31	35.08	54.00	18.92	252	96	AV

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Frequency[Hz]

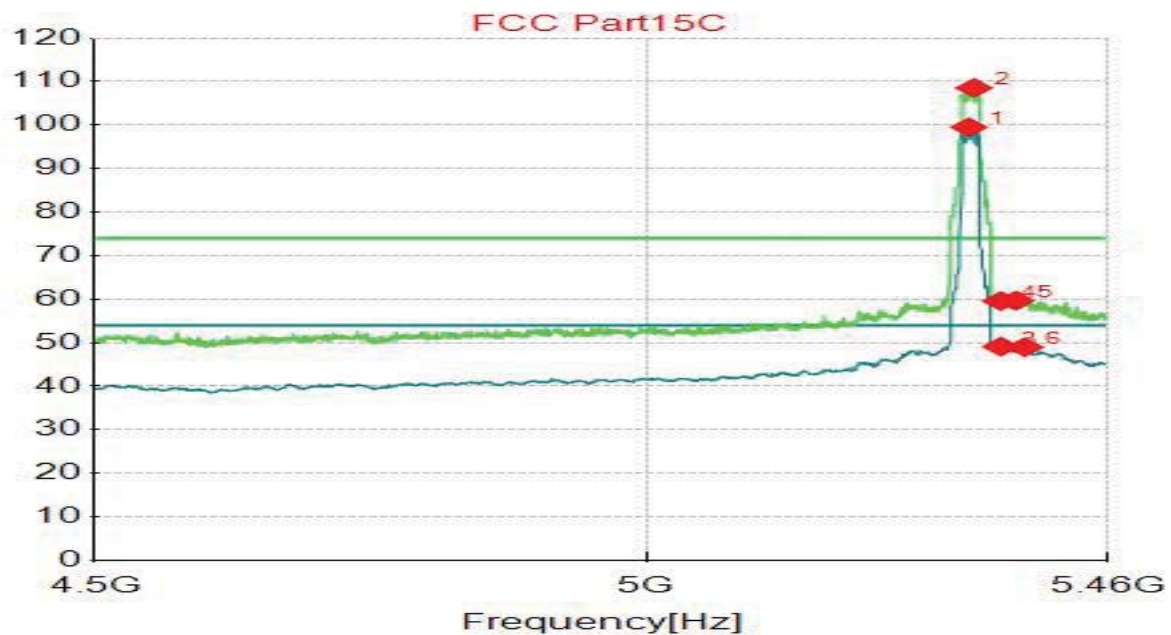
Remark: 1. The emission levels of other frequencies were greater than 20dB margin.
2. Level (dBμV/m) = Reading (dBμV/m) + Factor (dB).
3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
4. Margin(dB) = Limit[dBuV/m] - Level [dBμV/m]



Channel	802.11n20 CH64	Frequency	5320 MHz
Frequency Range	Above 1G	Detector Function	PK/AV

Vertical

NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector
1	5317.3687	90.46	9.04	99.50			380	299	AV
2	5322.6513	99.40	9.12	108.52			147	297	PK
3	5350.0000	39.13	9.96	49.09	54.00	4.91	147	98	AV
4	5350.0000	49.60	9.96	59.56	74.00	14.44	166	81	PK
5	5365.3927	49.66	9.99	59.65	74.00	14.35	209	306	PK
6	5374.5173	38.95	10.02	48.97	54.00	5.03	231	282	AV
7	10640.0000	27.70	14.17	41.87	74.00	32.13	255	171	PK
8	10640.0000	17.95	14.17	32.12	54.00	21.88	112	171	AV
9	15960.0000	22.88	21.31	44.19	74.00	29.81	250	46	PK
10	15960.0000	13.66	21.31	34.97	54.00	19.03	272	324	AV

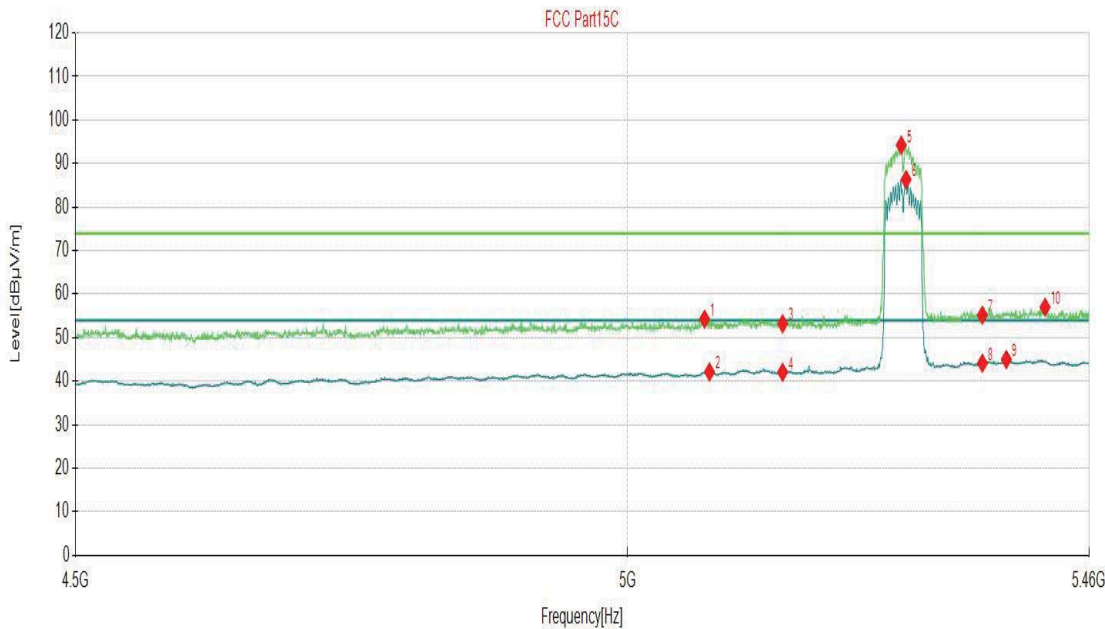


Remark: 1. The emission levels of other frequencies were greater than 20dB margin.
2. Level (dBμV/m) = Reading (dBμV/m) + Factor (dB).
3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
4. Margin(dB) = Limit[dBμV/m] - Level [dBμV/m]



Channel	802.11n40 CH54			Frequency	5270 MHz				
Frequency Range	Above 1G			Detector Function	PK/AV				
Horizontal									
NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector
1	5073.8869	46.69	7.56	54.25	74.00	19.75	266	219	PK
2	5078.6893	34.36	7.76	42.12	54.00	11.88	200	82	AV
3	5150.0000	45.17	8.03	53.20	74.00	20.80	289	239	PK
4	5150.0000	34.03	8.03	42.06	54.00	11.94	356	357	AV
5	5267.9040	85.43	8.80	94.23			152	153	PK
6	5272.7064	77.71	8.63	86.34			211	155	AV
7	5350.0000	45.23	9.96	55.19	74.00	18.81	111	33	PK
8	5350.0000	34.15	9.96	44.11	54.00	9.89	381	115	AV
9	5374.5173	34.97	10.02	44.99	54.00	9.01	350	3	AV
10	5414.3772	46.94	10.06	57.00	74.00	17.00	237	217	PK
11	10540.0000	27.26	14.39	41.65	68.20	26.55	328	164	PK
12	10540.0000	17.66	14.39	32.05	54.00	21.95	157	20	AV
13	15810.0000	22.20	20.56	42.76	74.00	31.24	383	270	PK
14	15810.0000	13.05	20.56	33.61	54.00	20.39	237	82	AV

FCC Part15C



Level[dBμV/m]

Frequency[Hz]

Remark: 1. The emission levels of other frequencies were greater than 20dB margin.

2. Level (dBμV/m) = Reading (dBμV/m) + Factor (dB).

3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).

4. Margin(dB) = Limit[dBμV/m] - Level [dBμV/m]