

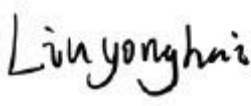
Test Report No.:
FCC2022-0068-RF3

RF Test Report

EUT : **WIFI Module**
MODEL : **WF-U21DS-SSC1**
BRAND NAME : **N/A**
CLIENT : **Sichuan AI-Link Technology Co.,Ltd.**
Classification Of Test : **N/A**

CVC Testing Technology Co., Ltd.



Client	Name : Sichuan AI-Link Technology Co.,Ltd. Address : Anzhou Industrial Park, Mianyang, Sichuan, P.R.C		
Manufacturer	Name : Sichuan AI-Link Technology Co.,Ltd. Address : Anzhou Industrial Park, Mianyang, Sichuan, P.R.C		
Equipment Under Test	Name : WIFI Module Model/Type: WF-U21DS-SSC1 Trade mark : N/A Serial NO.:N/A Sample NO.:1-1		
Date of Receipt.	2022.11.22	Date of Testing	2022.11.22~2023.01.04
Test Specification		Test Result	
FCC Part 15, Subpart E (15.407)		PASS	
Evaluation of Test Result	The equipment under test was found to comply with the requirements of the standards applied. Issue Date: 2023.01.05		
Tested by:  Xu ZhenFei Name Signature	Reviewed by:  Liu YongHai Name Signature	Approved by:  Chen HuaWen 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
FCC2022-0068-RF3	Original release	2023.01.05



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	Conducted Emissions	PASS	Meet the requirement of limit.
15.403(i)	6dB&26dB Emission Bandwidth	PASS	Meet the requirement of limit.
15.407(b)	Radiated Emissiont and Bandedge	PASS	Meet the requirement of limit.
15.407(a)	Transmit Power	PASS	Meet the requirement of limit.
15.407(a)	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. FCC2022-0068-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 2	4m*3m*3m	CRTDSWKS44301	VGDS-0700	CRT	2024/04/24
Bluetooth system integration	/	/	-	Tonscend	/
Spectrum Analyzer	FSV40	101580	DZ-000238-3	R&S	2023/06/05
Comprehensive Test Instrument	CMW270	100304	DZ-000240-1	R&S	2023/12/06
Analog Signal Generator	SMB100A	181858	DZ-000238-2	R&S	2023/06/05
Vector Signal Generator	SGT100A	111661	DZ-000238-1	R&S	2023/06/05
RF Radio Frequency Switch	JS0806-2	19H9080187		Tonscend	2023/06/06
Programmable DC Power Supply	E3644A	MY58036222	DZ-000178	KEYSIGHT	2023/04/21
Radiation SpuriousTest 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	2023/06/25
Waveguide Horn Antenna	HF906	360306/008	EM-000093	R&S	2023/03/04
Waveguide Horn Antenna	BBHA9170	00949	DZ-000209-2	SCHWARZBECK	2023/07/31
Preamplifier	BBV 9721	9721-050	DZ-000209-1	SCHWARZBECK	2023/06/05
5G Bandstop Filters	WRCJV12-4900-5100-5900-6100-50EE	851770	DZ-000186	WI	2023/12/06
Comprehensive tester	CMW500	159000	DZ-000240-2	R&S	2023/12/06
Conducted emission					/
EMI Test Receiver	ESR3	102394	VG DY-0705	R&S	2023-03-04
LISN	NSLK 8128	8128-316	VG DY-0149	SCHWARZBECK	2023-09-04
DC LISN	PVDC8301-017	PVDC8301#17	VG DY-0692	SCHWARZBECK	2023-10-08
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	2023-09-04
Impedance Stabilization Network	NTFM8158	8158-0092	VG DY-0356	SCHWARZBECK	2023-06-07
ImpedanceStabilizationNetwork	NTFM8131	#184	EM-000498	SCHWARZBECK	2023-06-07
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	2023-05-30
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	WIFI Module
BRAND	N/A
MODEL NO.	WF-U21DS-SSC1
FCC ID	2AOKI-AL5621D1
POWER SUPPLY	DC 3.3V
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
OPERATING FREQUENCY	5180 ~ 5240MHz,5260 ~ 5320MHz, 5500 ~ 5720MHz (Remark 5), 5745 ~ 5825MHz
NUMBER OF CHANNEL	See item 2.2
CONDUCTED OUTPUT POWER	20.29 dBm for 5180 ~ 5240MHz (Maximum AVG Power) 19.72 dBm for 5260 ~ 5320MHz (Maximum AVG Power) 20.71 dBm for 5500 ~ 5720MHz (Maximum AVG Power) 20.19 dBm for 5745 ~ 5825MHz (Maximum AVG Power)
ANTENNA TYPE (Remark 6)	ANT0 5180 ~ 5240MHz: External antenna with 3.37dBi gain 5260 ~ 5320MHz: External antenna with 3.37dBi gain 5500 ~ 5720MHz: External antenna with 3.37dBi gain 5745 ~ 5825MHz: External antenna with 3.37dBi gain ANT1 5180 ~ 5240MHz: External antenna with 3.37dBi gain 5260 ~ 5320MHz: External antenna with 3.37dBi gain 5500 ~ 5720MHz: External antenna with 3.37dBi gain 5745 ~ 5825MHz: External antenna with 3.37dBi 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.: FCC2022-0068-E).
4. The EUT incorporates a MIMO function. Physically, the EUT provides 2 completed transmitter and 2 receiver.
5. The Test Model is the same with the the original model WF-U21DS-SSA1 in Test Report No.FCC2022-0012 except that the model under test this time is added the shield.Therefore,we only test the radiated emission and as for the other test items ,we refer to the data in Test Report No.FCC2022-0012-RF3
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
802.11ac 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) :

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):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
38	5190 MHz	46	5230 MHz

1 channel is provided for 802.11ac (VHT80):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
42	5210MHz	--	--

WLAN 5.26 ~ 5.32GHz

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

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

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

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
54	5270MHz	62	5310MHz

1 channels are provided for 802.11ac (VHT80)::

CHANNEL	FREQUENCY
58	5290MHz

WLAN 5.50 ~ 5.72GHz

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

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):

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

2 channel is provided for 802.11ac (VHT80):

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) :

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):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
151	5755MHz	159	5795MHz

1 channel is provided for 802.11ac (VHT80):

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)	
FREQUENCY(MHZ)	POWER SETTING	FREQUENCY(MHZ)	POWER SETTING	FREQUENCY(MHZ)	POWER SETTING	FREQUENCY(MHZ)	POWER SETTING
5180	14	5180	12	5190	12	5210	12
5200	14	5200	12	5230	12		
5240	14	5240	12				
Operated in 5260 ~ 5320MHz band							
802.11a		802.11n(HT20)		802.11n(HT40)		802.11ac (VHT80)	
FREQUENCY(MHZ)	POWER SETTING	FREQUENCY(MHZ)	POWER SETTING	FREQUENCY(MHZ)	POWER SETTING	FREQUENCY(MHZ)	POWER SETTING
5260	14	5260	12	5270	12	5290	12
5280	14	5280	12	5310	12		
5320	14	5320	12				
Operated in 5500 ~ 5720MHz band							
802.11a		802.11n(HT20)		802.11n(HT40)		802.11ac (VHT80)	
FREQUENCY(MHZ)	POWER SETTING	FREQUENCY(MHZ)	POWER SETTING	FREQUENCY(MHZ)	POWER SETTING	FREQUENCY(MHZ)	POWER SETTING
5500	14	5500	12	5510	12	5530	12
5580	14	5580	12	5550	12	5610	12
5700	14	5700	12	5670	12	5690	12
5720	14	5720	12	5710	12		
Operated in 5745 ~ 5825MHz band							
802.11a		802.11n(HT20)		802.11n(HT40)		802.11ac (VHT80)	
CHANNEL	POWER SETTING	CHANNEL	POWER SETTING	CHANNEL	POWER SETTING	CHANNEL	POWER SETTING
5745	14	5745	12	5755	12	5755	12
5785	14	5785	12	5795	12		
5825	14	5825	12				



2.3 TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL

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

Where **RE $\geq$ 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
802.11ac VHT80	MCS0

TEST CONDITION:

APPLICABLE TO	ENVIRONMENTAL CONDITIONS	INPUT POWER	TESTED BY
RE<1G	25deg. C, 54%RH	DC 3.3V From USB Host Unit	Liu ShiWei
RE$\geq$1G	25deg. C, 54%RH	DC 3.3V From USB Host Unit	Liu ShiWei
PLC	20deg. C, 56%RH	DC 3.3V From USB Host Unit	Liu ShiWei
APCM	20deg. C, 55%RH	DC 3.3V 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

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

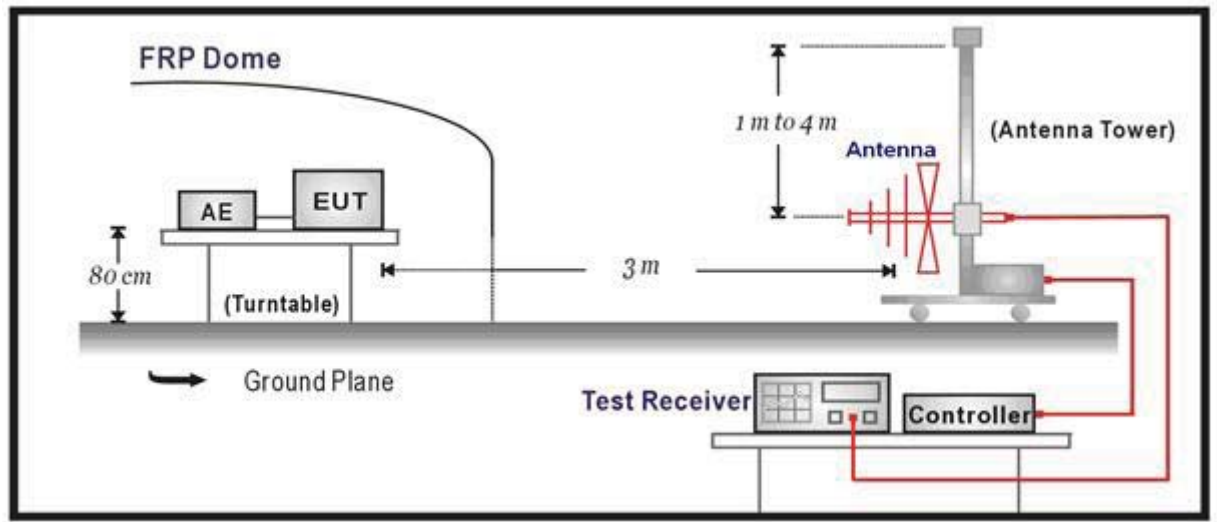
- a. The EUT was placed on the top of a rotating table 1.5 meters(above 1GHz) and 0.8 meters(below 1GHz) above the ground at a 3 meters semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving 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:

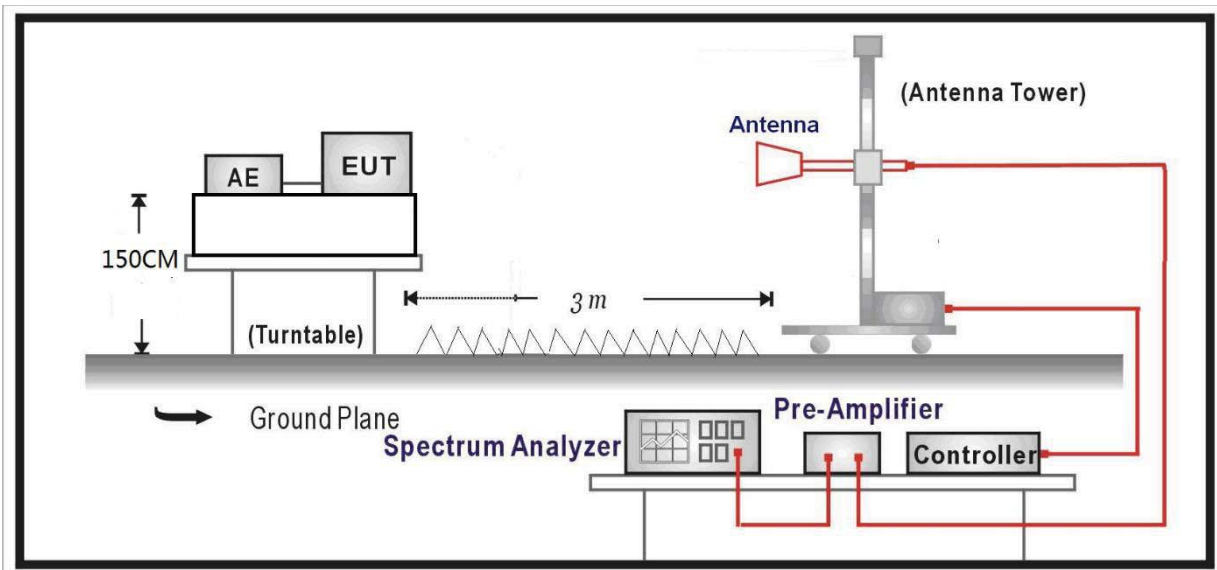
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
3. The resolution 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:

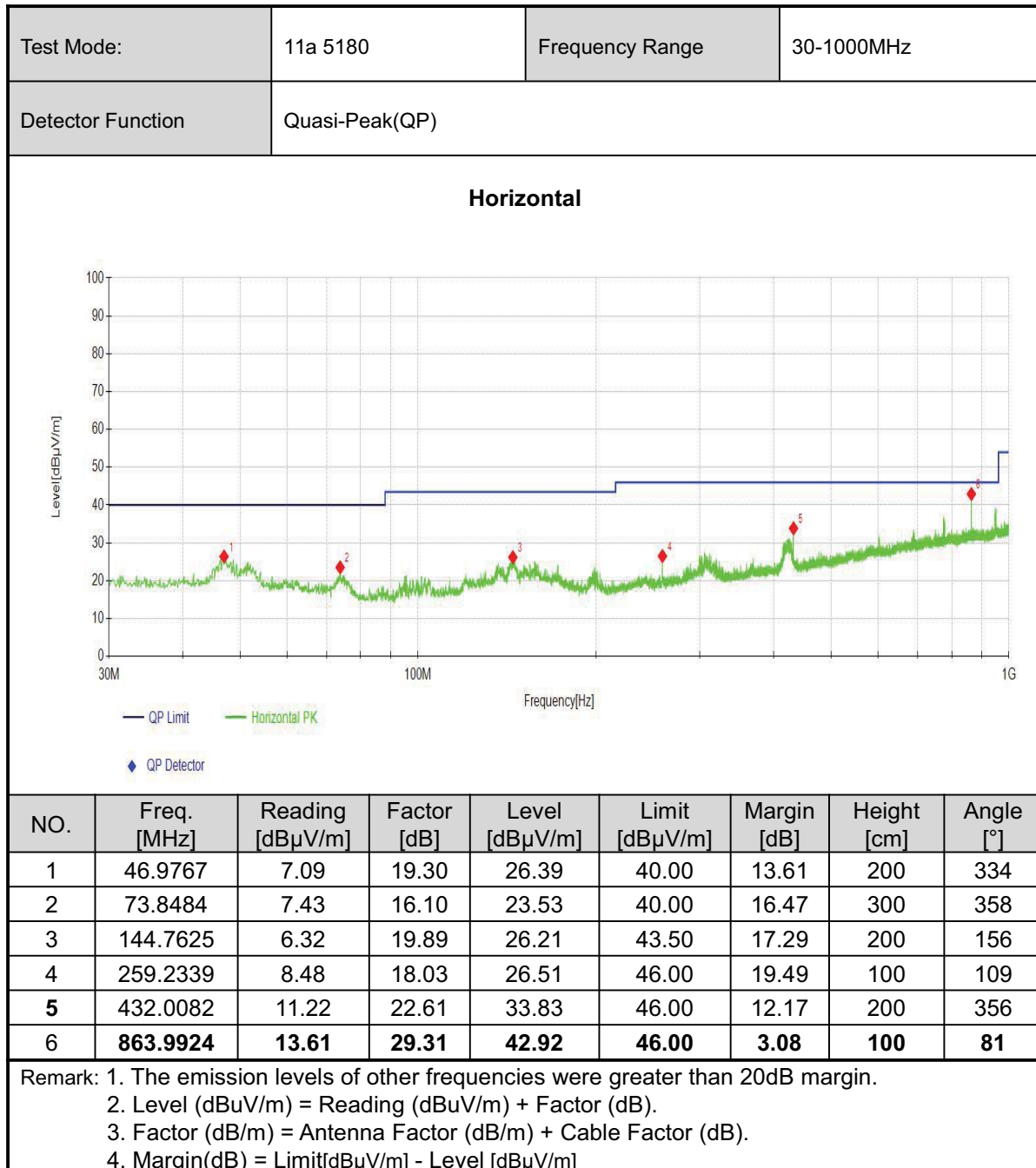


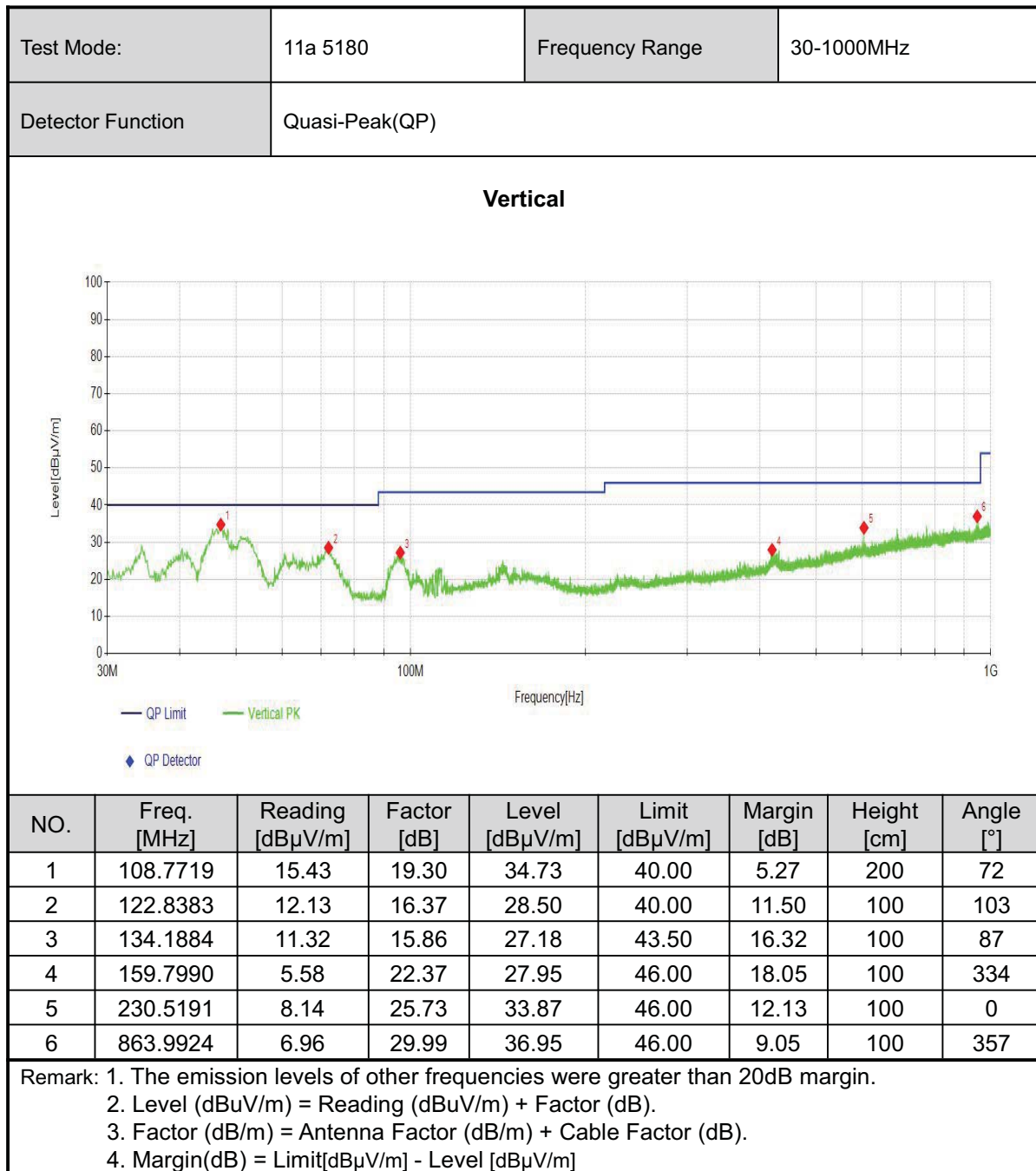
Above 1GHz Test Setup:



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	5105.1776	47.16	7.82	54.98	74.00	19.02	150	313	PK
2	5107.4287	35.59	7.94	43.53	54.00	10.47	150	66	AV
3	5150.0000	41.62	8.03	49.65	54.00	4.35	150	72	AV
4	5150.0000	58.06	8.03	66.09	74.00	7.91	150	334	PK
5	5173.0865	88.61	7.85	96.46			150	66	AV
6	5177.5888	96.94	7.89	104.83			150	66	PK
7	10360.0000	42.93	14.09	57.02	68.20	11.18	150	88	PK
8	10360.0000	34.32	14.09	48.41	54.00	5.59	150	88	AV
9	15540.0000	26.20	19.38	45.58	74.00	28.42	150	26	PK
10	15540.0000	17.01	19.38	36.39	54.00	17.61	150	26	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).

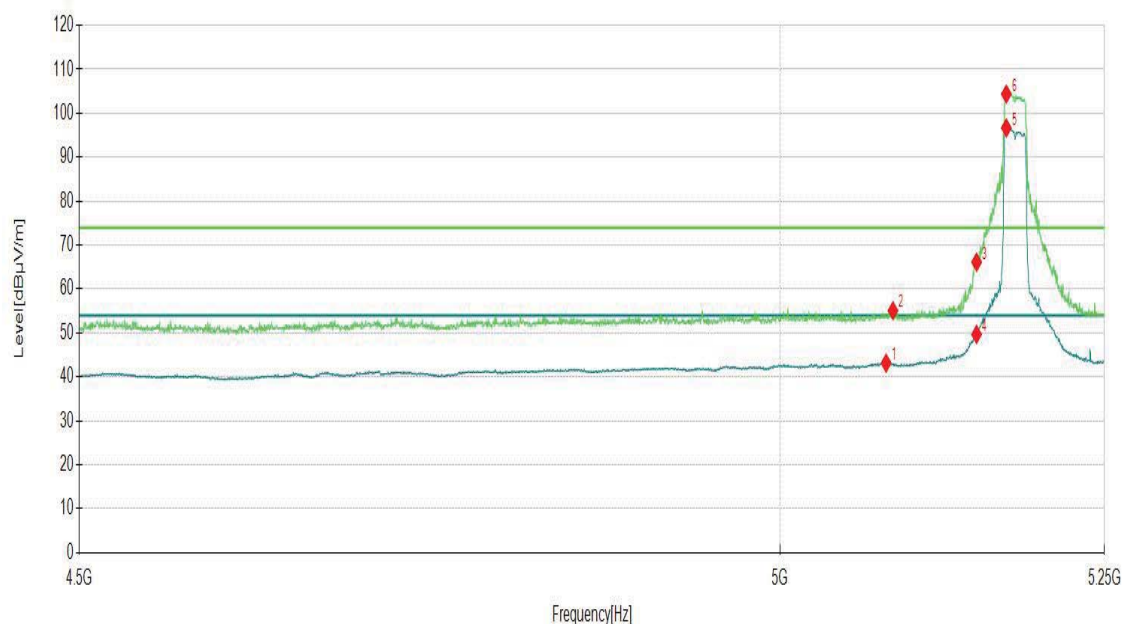
4. Margin(dB) = Limit[dBμV/m] - Level [dBμV/m]



Channel	802.11a 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	5080.4152	35.33	7.81	43.14	54.00	10.86	150	11	AV
2	5085.6678	47.38	7.70	55.08	74.00	18.92	150	115	PK
3	5150.0000	58.09	8.03	66.12	74.00	7.88	150	272	PK
4	5150.0000	41.66	8.03	49.69	54.00	4.31	150	270	AV
5	5173.0865	88.82	7.85	96.67	54.00	-42.67	150	264	AV
6	5173.0865	96.53	7.85	104.38	74.00	-30.38	150	266	PK
7	10360.3060	36.65	14.09	50.74	54.00	3.26	150	1	AV
8	10360.3060	45.41	14.09	59.50	68.20	8.70	150	360	PK
9	15539.2439	33.28	19.37	52.65	74.00	21.35	150	221	PK
10	15540.4140	23.59	19.38	42.97	54.00	11.03	150	221	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 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	10439.8740	32.93	14.44	47.37	54.00	6.63	150	48	AV
2	10439.8740	41.84	14.44	56.28	68.20	11.92	150	84	PK
3	15660.0000	25.69	20.15	45.84	74.00	28.16	150	331	PK
4	15660.0000	15.05	20.15	35.20	54.00	18.80	150	360	AV
Vertical									
NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Remark
1	10440.0000	30.57	14.45	45.02	54.00	8.98	150	97	AV
2	10446.8947	42.39	14.49	56.88	68.20	11.32	150	84	PK
3	15660.0000	17.10	20.15	37.25	54.00	16.75	150	228	AV
4	15660.0000	25.62	20.15	45.77	74.00	28.23	150	231	PK
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	5038.8294	45.68	7.62	53.30	74.00	20.70	150	290	PK
2	5041.7109	34.79	7.60	42.39	54.00	11.61	150	130	AV
3	5150.0000	44.62	8.03	52.65	74.00	21.35	150	10	PK
4	5150.0000	34.54	8.03	42.57	54.00	11.43	150	10	AV
5	5236.2081	83.62	8.21	91.83	54.00	-37.83	150	40	AV
6	5237.1686	92.40	8.21	100.61	74.00	-26.61	150	50	PK
7	5350.0000	34.50	9.96	44.46	54.00	9.54	150	240	AV
8	5350.0000	45.19	9.96	55.15	74.00	18.85	150	60	PK
9	5408.1341	34.84	10.24	45.08	54.00	8.92	150	250	AV
10	5411.9760	46.34	10.19	56.53	74.00	17.47	150	250	PK
11	10479.6580	30.79	14.47	45.26	54.00	8.74	150	285	AV
12	10480.0000	36.81	14.45	51.26	68.20	16.94	150	288	PK
13	15720.0000	14.70	20.55	35.25	54.00	18.75	150	190	AV
14	15720.0000	22.71	20.55	43.26	74.00	30.74	150	177	PK

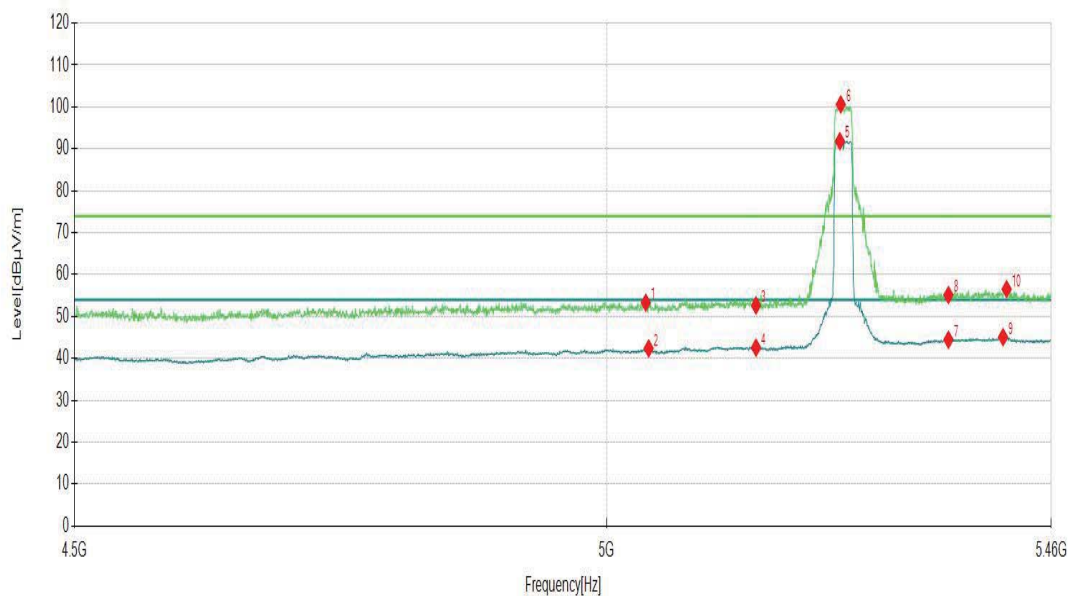
Remark: 1. The emission levels of other frequencies were greater than 20dB margin.
2. Level (dBuV/m) = Reading (dBuV/m) + Factor (dB).
3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
4. Margin(dB) = Limit[dBμV/m] - Level [dBμV/m]



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

Vertical

NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector
1	5038.8294	45.68	7.62	53.30	74.00	20.70	150	290	PK
2	5041.7109	34.79	7.60	42.39	54.00	11.61	150	130	AV
3	5150.0000	44.62	8.03	52.65	74.00	21.35	150	10	PK
4	5150.0000	34.54	8.03	42.57	54.00	11.43	150	10	AV
5	5236.2081	83.62	8.21	91.83	54.00	-37.83	150	40	AV
6	5237.1686	92.40	8.21	100.61	74.00	-26.61	150	50	PK
7	5350.0000	34.50	9.96	44.46	54.00	9.54	150	240	AV
8	5350.0000	45.19	9.96	55.15	74.00	18.85	150	60	PK
9	5408.1341	34.84	10.24	45.08	54.00	8.92	150	250	AV
10	5411.9760	46.34	10.19	56.53	74.00	17.47	150	250	PK
11	10480.0000	39.17	14.45	53.62	68.20	14.58	150	333	PK
12	10480.0000	30.79	14.45	45.24	54.00	8.76	150	85	AV
13	15720.0000	25.61	20.55	46.16	74.00	27.84	150	216	PK
14	15720.0000	16.28	20.55	36.83	54.00	17.17	150	271	AV

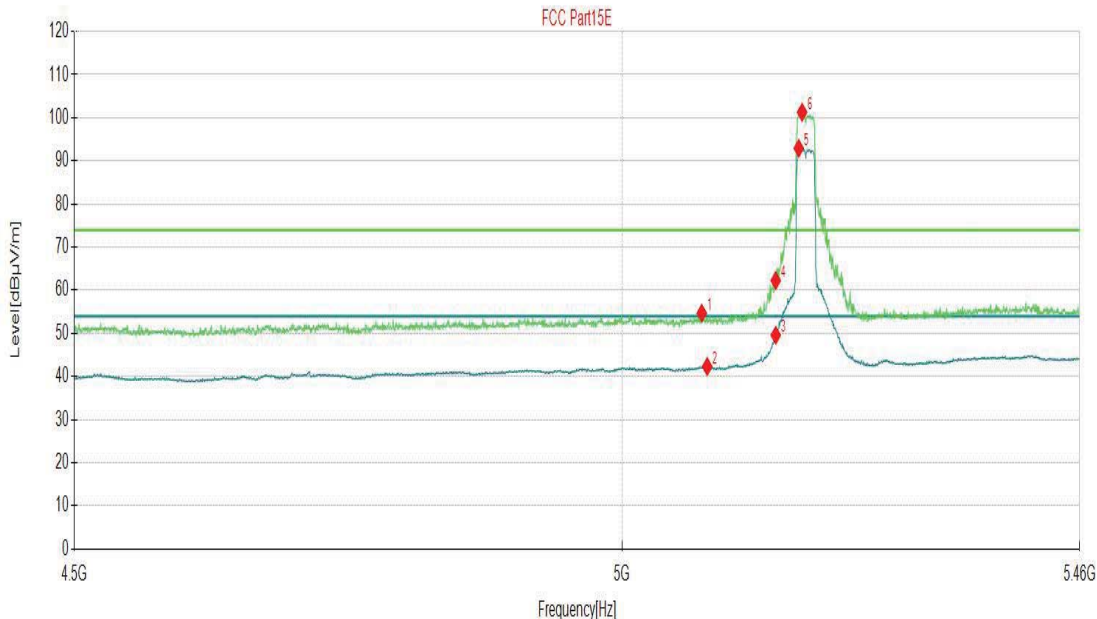


Remark: 1. The emission levels of other frequencies were greater than 20dB margin.
2. Level (dBμV/m) = Reading (dBμV/m) + Factor (dB).
3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
4. Margin(dB) = Limit[dBμV/m] - Level [dBμV/m]



Channel	802.11n20 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	5078.2891	47.26	7.75	55.01	74.00	18.99	150	60	PK
2	5120.8104	36.01	7.80	43.81	54.00	10.19	150	67	AV
3	5150.0000	42.02	8.03	50.05	54.00	3.95	150	69	AV
4	5150.0000	59.72	8.03	67.75	74.00	6.25	150	56	PK
5	5173.1116	88.13	7.85	95.98			150	67	AV
6	5183.3167	96.40	7.82	104.22			150	73	PK
7	10360.0000	40.03	14.09	54.12	68.20	14.08	150	78	PK
8	10360.0000	31.94	14.09	46.03	54.00	7.97	150	82	AV
9	15540.0000	22.81	19.38	42.19	74.00	31.81	150	88	PK
10	15540.0000	14.44	19.38	33.82	54.00	20.18	150	43	AV

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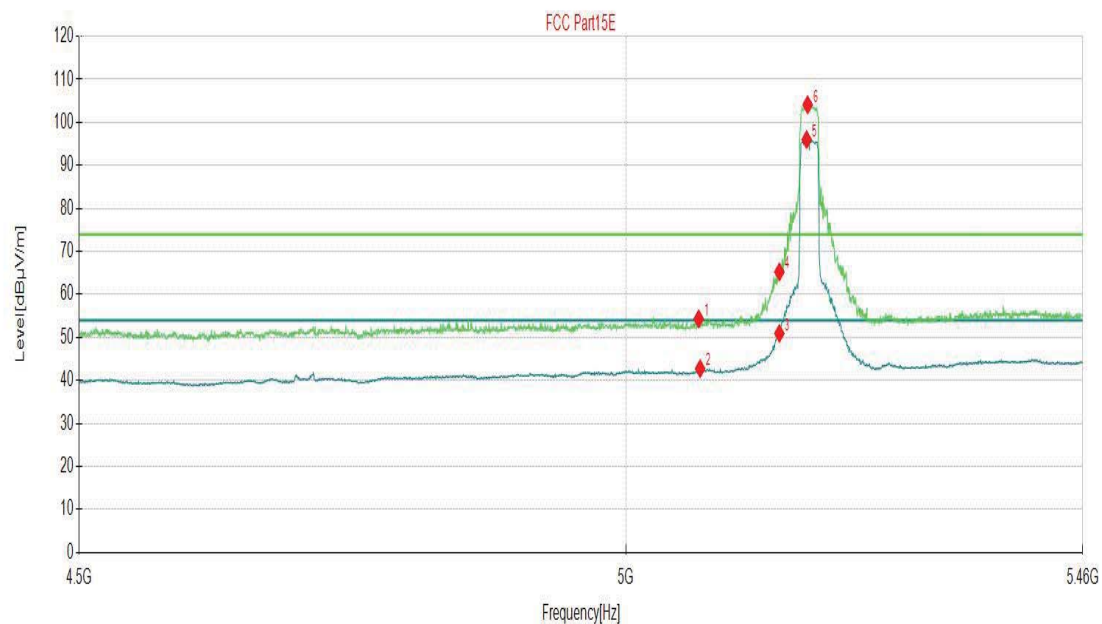
Remark: 1. The emission levels of other frequencies were greater than 20dB margin.
2. Level (dBuV/m) = Reading (dBuV/m) + Factor (dB).
3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
4. Margin(dB) = Limit[dBμV/m] - Level [dBμV/m]



Channel	802.11n20 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	5074.8874	48.25	7.61	55.86	74.00	18.14	150	36	PK
2	5119.1096	35.86	7.78	43.64	54.00	10.36	150	267	AV
3	5150.0000	41.79	8.03	49.82	54.00	4.18	150	262	AV
4	5150.0000	58.98	8.03	67.01	74.00	6.99	150	15	PK
5	5172.6863	88.41	7.85	96.26			150	262	AV
6	5176.5133	96.55	7.88	104.43			150	262	PK
7	10360.0000	42.83	14.09	56.92	68.20	11.28	150	75	PK
8	10360.0000	34.30	14.09	48.39	54.00	5.61	150	91	AV
9	15540.0000	25.27	19.38	44.65	74.00	29.35	150	42	PK
10	15540.0000	16.61	19.38	35.99	54.00	18.01	150	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		802.11n20 CH 44			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	10440.0000	38.90	14.45	53.35	68.20	14.85	150	84	PK
2	10440.0000	29.38	14.45	43.83	54.00	10.17	150	84	AV
3	15660.0000	24.28	20.15	44.43	74.00	29.57	150	248	PK
4	15660.0000	15.70	20.15	35.85	54.00	18.15	150	360	AV
Vertical									
NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Remark
1	10440.0000	30.98	14.45	45.43	54.00	8.57	150	71	AV
2	10440.0000	39.80	14.45	54.25	68.20	13.95	150	52	PK
3	15660.0000	17.06	20.15	37.21	54.00	16.79	150	272	AV
4	15660.0000	25.58	20.15	45.73	74.00	28.27	150	181	PK
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 _z				
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	5002.8114	35.07	7.50	42.57	54.00	11.43	150	294	AV
2	5010.4952	47.26	7.40	54.66	74.00	19.34	150	324	PK
3	5150.0000	34.84	8.03	42.87	54.00	11.13	150	258	AV
4	5150.0000	46.02	8.03	54.05	74.00	19.95	150	297	PK
5	5236.6883	88.69	8.21	96.90			150	348	AV
6	5242.9315	97.24	8.23	105.47			150	286	PK
7	5350.0000	45.53	9.96	55.49	74.00	18.51	150	231	PK
8	5350.0000	34.60	9.96	44.56	54.00	9.44	150	65	AV
9	5395.1676	47.35	10.04	57.39	74.00	16.61	150	358	PK
10	5408.1341	35.08	10.24	45.32	54.00	8.68	150	277	AV
11	10479.6580	31.33	14.47	45.80	54.00	8.20	150	82	AV
12	10480.0000	36.22	14.45	50.67	68.20	17.53	150	98	PK
13	15720.0000	14.08	20.55	34.63	54.00	19.37	150	344	AV
14	15720.0000	22.60	20.55	43.15	74.00	30.85	150	312	PK

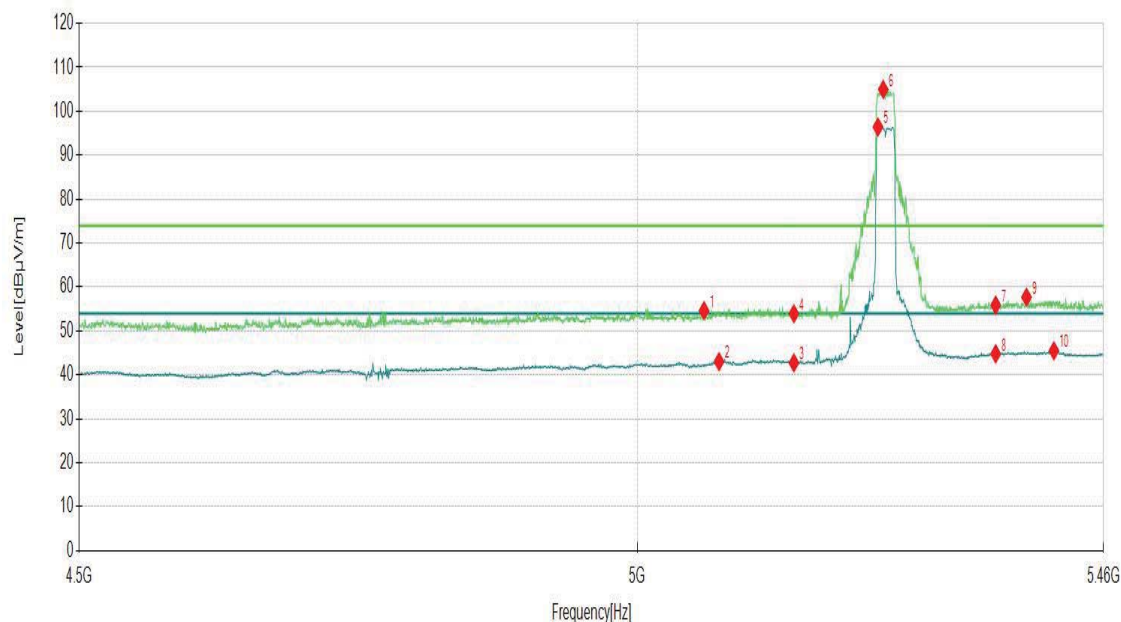
Remark: 1. The emission levels of other frequencies were greater than 20dB margin.
2. Level (dBμV/m) = Reading (dBμV/m) + Factor (dB).
3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
4. Margin(dB) = |imit[dBμV/m] - | level [dBμV/m]



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	5063.3217	47.26	7.36	54.62	74.00	19.38	150	128	PK
2	5077.7289	35.31	7.72	43.03	54.00	10.97	150	103	AV
3	5150.0000	34.72	8.03	42.75	54.00	11.25	150	277	AV
4	5150.0000	45.90	8.03	53.93	74.00	20.07	150	5	PK
5	5232.3662	88.23	8.20	96.43	54.00	-42.43	150	196	AV
6	5237.6488	96.76	8.21	104.97	74.00	-30.97	150	211	PK
7	5350.0000	45.92	9.96	55.88	74.00	18.12	150	180	PK
8	5350.0000	34.83	9.96	44.79	54.00	9.21	150	175	AV
9	5381.2406	47.56	10.11	57.67	74.00	16.33	150	75	PK
10	5409.0945	35.22	10.27	45.49	54.00	8.51	150	9	AV
11	10478.4878	42.52	14.48	57.00	68.20	11.20	150	336	PK
12	10480.0000	30.36	14.45	44.81	54.00	9.19	150	336	AV
13	15720.0000	25.09	20.55	45.64	74.00	28.36	150	224	PK
14	15720.0000	16.36	20.55	36.91	54.00	17.09	150	36	AV



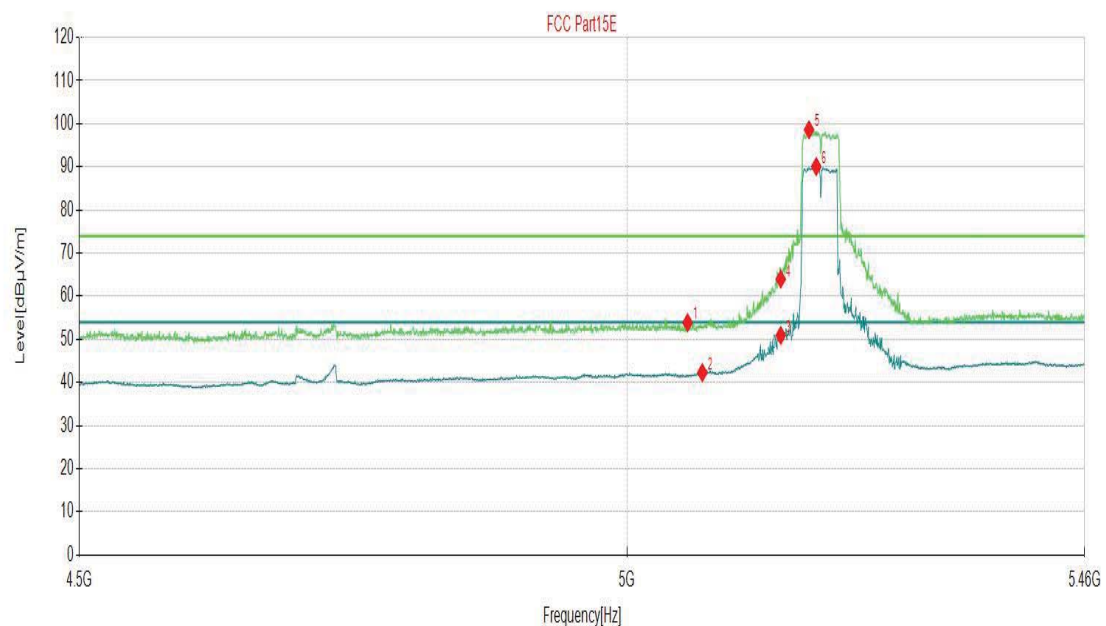
Remark: 1. The emission levels of other frequencies were greater than 20dB margin.
2. Level (dBμV/m) = Reading (dBμV/m) + Factor (dB).
3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
4. Margin(dB) = Limit[dBμV/m] - Level [dBμV/m]



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	5032.7914	47.57	7.41	54.98	74.00	19.02	150	334	PK
2	5079.9900	35.20	7.82	43.02	54.00	10.98	150	71	AV
3	5150.0000	40.49	8.03	48.52	54.00	5.48	150	67	AV
4	5150.0000	57.74	8.03	65.77	74.00	8.23	150	245	PK
5	5173.1116	83.49	7.85	91.34	54.00	-37.34	150	67	AV
6	5174.3872	91.86	7.86	99.72	74.00	-25.72	150	65	PK
7	10380.0000	36.83	14.14	50.97	68.20	17.23	150	75	PK
8	10380.0000	29.87	14.14	44.01	54.00	9.99	150	285	AV
9	15570.0000	22.43	19.64	42.07	74.00	31.93	150	354	PK
10	15570.0000	13.06	19.64	32.70	54.00	21.30	150	311	AV



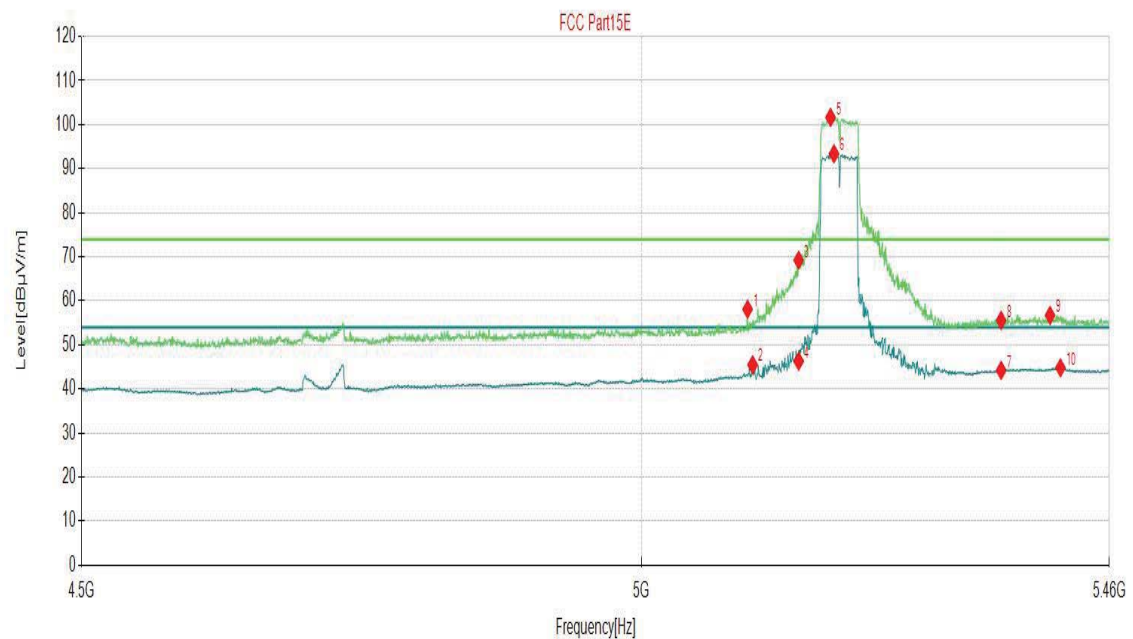
Remark: 1. The emission levels of other frequencies were greater than 20dB margin.
2. Level (dBμV/m) = Reading (dBμV/m) + Factor (dB).
3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
4. Margin(dB) = Limit[dBμV/m] - Level [dBμV/m]



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	5078.7144	47.38	7.76	55.14	74.00	18.86	150	273	PK
2	5111.8809	35.52	8.02	43.54	54.00	10.46	150	273	AV
3	5150.0000	40.71	8.03	48.74	54.00	5.26	150	269	AV
4	5150.0000	58.67	8.03	66.70	74.00	7.30	150	32	PK
5	5173.9620	91.88	7.86	99.74			150	263	PK
6	5173.9620	83.69	7.86	91.55			150	263	AV
7	10380.0000	38.06	14.14	52.20	68.20	16.00	150	85	PK
8	10380.0000	31.25	14.14	45.39	54.00	8.61	150	88	AV
9	15570.0000	22.08	19.64	41.72	74.00	32.28	150	350	PK
10	15570.0000	13.88	19.64	33.52	54.00	20.48	150	278	AV



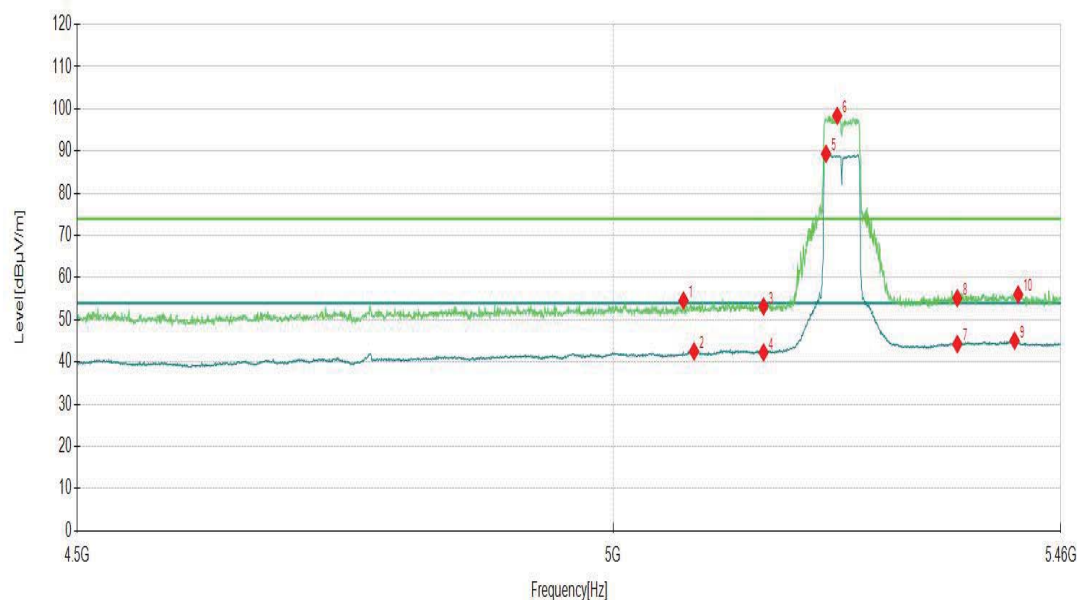
Remark: 1. The emission levels of other frequencies were greater than 20dB margin.
2. Level (dBμV/m) = Reading (dBμV/m) + Factor (dB).
3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
4. Margin(dB) = Limit[dBμV/m] - Level [dBμV/m]



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	5069.5648	47.17	7.40	54.57	74.00	19.43	150	320	PK
2	5080.1301	34.71	7.82	42.53	54.00	11.47	150	120	AV
3	5150.0000	45.14	8.03	53.17	74.00	20.83	150	270	PK
4	5150.0000	34.26	8.03	42.29	54.00	11.71	150	340	AV
5	5213.6368	80.91	8.44	89.35	54.00	-35.35	150	20	AV
6	5225.1626	90.17	8.20	98.37	74.00	-24.37	150	200	PK
7	5350.0000	34.29	9.96	44.25	54.00	9.75	150	220	AV
8	5350.0000	45.20	9.96	55.16	74.00	18.84	150	210	PK
9	5410.5353	34.81	10.27	45.08	54.00	8.92	150	270	AV
10	5414.3772	45.93	10.06	55.99	74.00	18.01	150	60	PK
11	10459.7660	29.05	14.59	43.64	54.00	10.36	150	52	AV
12	10460.0000	32.70	14.59	47.29	68.20	20.91	150	49	PK
13	15690.0000	23.48	20.46	43.94	74.00	30.06	150	300	PK
14	15690.0000	14.11	20.46	34.57	54.00	19.43	150	1	AV



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

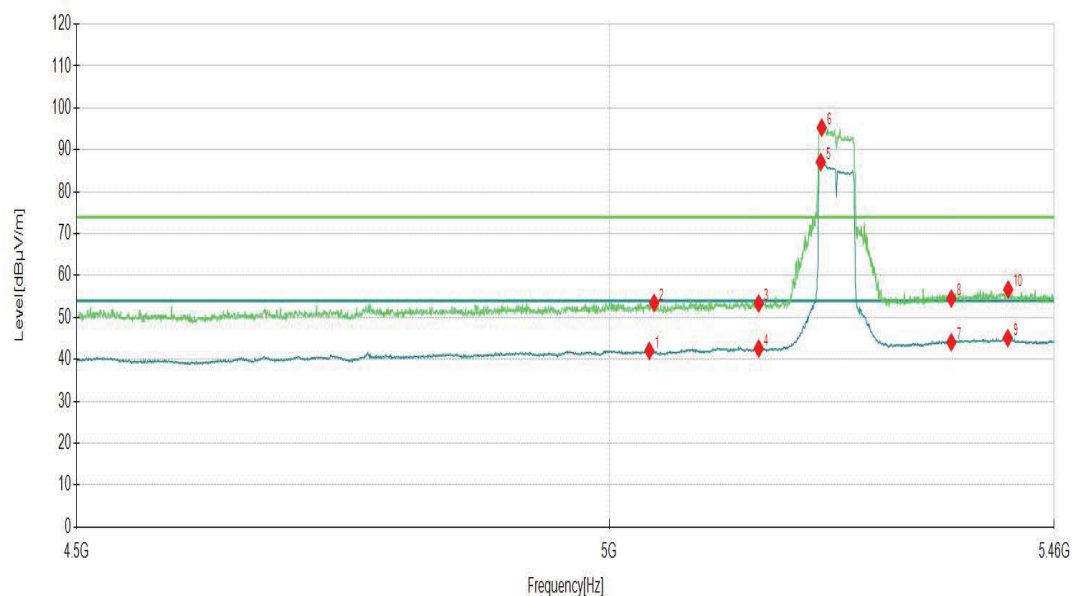
2. Level (dBμV/m) = Reading (dBμV/m) + Factor (dB).

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		
Vertical									
NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector
1	5039.7899	34.40	7.66	42.06	54.00	11.94	150	320	AV
2	5044.5923	45.99	7.48	53.47	74.00	20.53	150	310	PK
3	5150.0000	45.31	8.03	53.34	74.00	20.66	150	310	PK
4	5150.0000	34.57	8.03	42.60	54.00	11.40	150	320	AV
5	5213.6368	78.66	8.44	87.10	54.00	-33.10	150	150	AV
6	5214.5973	86.87	8.41	95.28	74.00	-21.28	150	290	PK
7	5350.0000	34.12	9.96	44.08	54.00	9.92	150	300	AV
8	5350.0000	44.56	9.96	54.52	74.00	19.48	150	50	PK
9	5410.0550	34.81	10.29	45.10	54.00	8.90	150	360	AV
10	5410.5353	46.39	10.27	56.66	74.00	17.34	150	310	PK
11	10460.0000	34.32	14.59	48.91	68.20	19.29	150	337	PK
12	10460.0000	25.97	14.59	40.56	54.00	13.44	150	85	AV
13	15690.0000	14.92	20.46	35.38	54.00	18.62	150	23	AV
14	15690.0000	23.78	20.46	44.24	74.00	29.76	150	72	PK



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	5022.5013	47.15	7.36	54.51	74.00	19.49	150	80	PK
2	5044.1121	34.88	7.50	42.38	54.00	11.62	150	40	AV
3	5150.0000	37.52	8.03	45.55	54.00	8.45	150	230	AV
4	5150.0000	51.07	8.03	59.10	74.00	14.90	150	10	PK
5	5185.3027	88.36	7.77	96.13	74.00	-22.13	150	70	PK
6	5185.3027	79.37	7.77	87.14	54.00	-33.14	150	130	AV
7	5350.0000	45.09	9.96	55.05	74.00	18.95	150	100	PK
8	5350.0000	34.71	9.96	44.67	54.00	9.33	150	100	AV
9	5382.6813	46.81	10.10	56.91	74.00	17.09	150	180	PK
10	5408.6143	34.79	10.26	45.05	54.00	8.95	150	290	AV
11	10420.0000	26.12	14.27	40.39	68.20	27.81	150	214	PK
12	10420.0000	17.54	14.27	31.81	54.00	22.19	150	154	AV
13	15630.0000	23.39	20.00	43.39	74.00	30.61	150	1	PK
14	15630.0000	14.67	20.00	34.67	54.00	19.33	150	92	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	802.11ac80 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	5046.5133	34.76	7.40	42.16	54.00	11.84	150	170	AV
2	5056.5983	45.90	7.32	53.22	74.00	20.78	150	100	PK
3	5150.0000	35.84	8.03	43.87	54.00	10.13	150	280	AV
4	5150.0000	47.26	8.03	55.29	74.00	18.71	150	190	PK
5	5184.3422	75.72	7.80	83.52	54.00	-29.52	150	310	AV
6	5184.8224	84.60	7.78	92.38	74.00	-18.38	150	200	PK
7	5350.0000	45.95	9.96	55.91	74.00	18.09	150	240	PK
8	5350.0000	34.32	9.96	44.28	54.00	9.72	150	90	AV
9	5410.5353	34.62	10.27	44.89	54.00	9.11	150	20	AV
10	5416.2981	46.95	9.96	56.91	74.00	17.09	150	330	PK
11	10420.0000	26.84	14.27	41.11	68.20	27.09	150	310	PK
12	10420.0000	17.35	14.27	31.62	54.00	22.38	150	287	AV
13	15630.0000	23.98	20.00	43.98	74.00	30.02	150	26	PK
14	15630.0000	14.53	20.00	34.53	54.00	19.47	150	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].



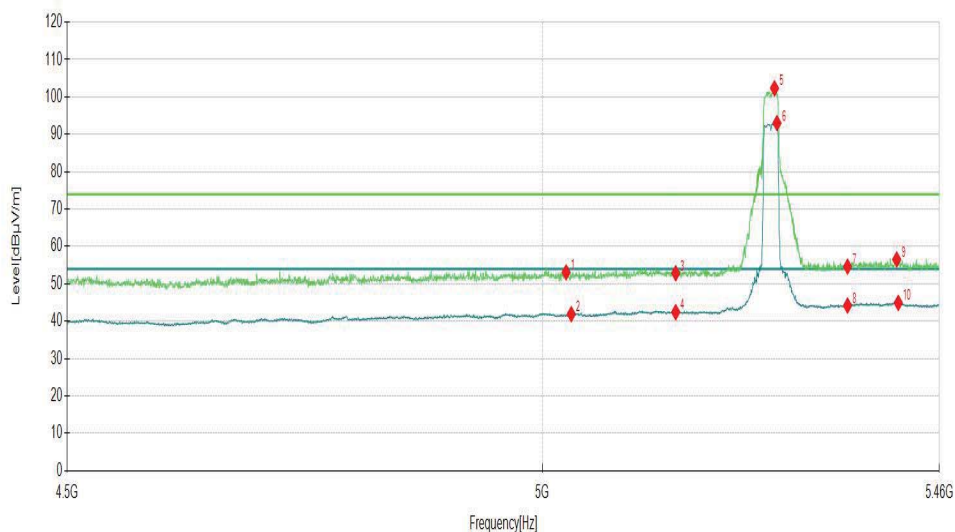
3.1.7 TEST RESULTS - Band 2 (5260-5320MHz):

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	5026.3432	45.73	7.34	53.07	74.00	20.93	150	70	PK
2	5032.1061	34.51	7.39	41.90	54.00	12.10	150	40	AV
3	5150.0000	44.82	8.03	52.85	74.00	21.15	150	80	PK
4	5150.0000	34.39	8.03	42.42	54.00	11.58	150	360	AV
5	5264.0620	93.26	9.07	102.33	74.00	-28.33	150	70	PK
6	5266.9435	84.12	8.87	92.99	54.00	-38.99	150	110	AV
7	5350.0000	44.66	9.96	54.62	74.00	19.38	150	50	PK
8	5350.0000	34.22	9.96	44.18	54.00	9.82	150	140	AV
9	5408.6143	46.26	10.26	56.52	74.00	17.48	150	330	PK
10	5410.5353	34.63	10.27	44.90	54.00	9.10	150	80	AV
11	10520.0000	32.95	14.32	47.27	68.20	20.93	150	52	PK
12	10520.0000	23.90	14.32	38.22	54.00	15.78	150	48	AV
13	15780.0000	22.80	20.63	43.43	74.00	30.57	150	16	PK
14	15780.0000	12.94	20.63	33.57	54.00	20.43	150	231	AV



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

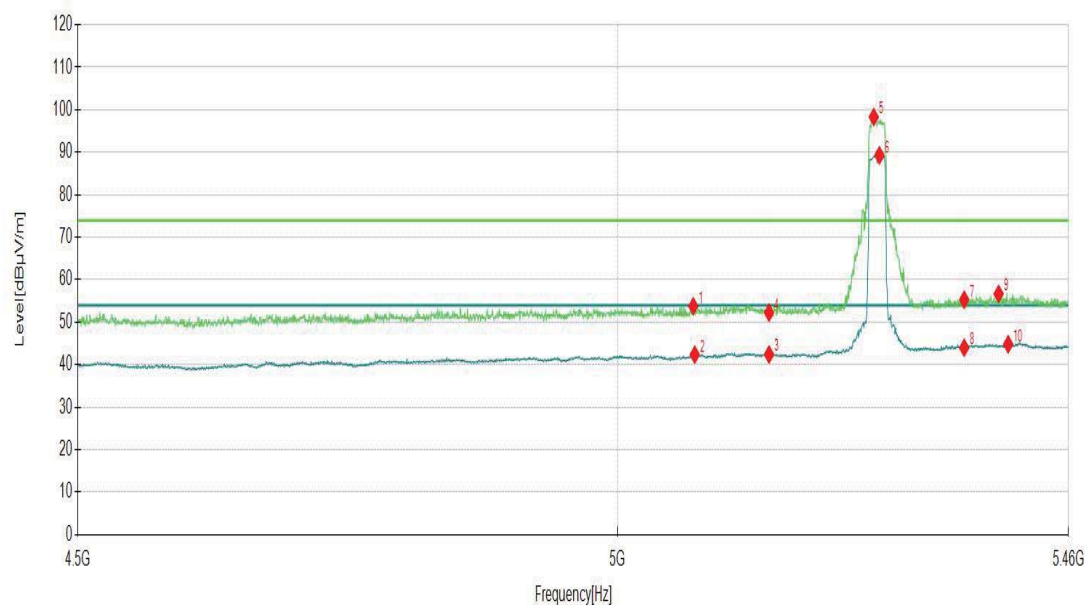
2. Level (dBμV/m) = Reading (dBμV/m) + Factor (dB).

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 _Z		
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	5074.3672	46.18	7.58	53.76	74.00	20.24	150	10	PK
2	5075.8079	34.71	7.64	42.35	54.00	11.65	150	210	AV
3	5150.0000	34.37	8.03	42.40	54.00	11.60	150	330	AV
4	5150.0000	44.23	8.03	52.26	74.00	21.74	150	270	PK
5	5256.3782	89.34	8.95	98.29	74.00	-24.29	150	160	PK
6	5262.1411	80.08	9.20	89.28	54.00	-35.28	150	160	AV
7	5350.0000	45.34	9.96	55.30	74.00	18.70	150	200	PK
8	5350.0000	34.02	9.96	43.98	54.00	10.02	150	330	AV
9	5386.0430	46.57	10.08	56.65	74.00	17.35	150	210	PK
10	5396.1281	34.77	10.03	44.80	54.00	9.20	150	90	AV
11	10520.0000	33.10	14.32	47.42	68.20	20.78	150	330	PK
12	10520.0000	27.30	14.32	41.62	54.00	12.38	150	350	AV
13	15780.0000	23.73	20.63	44.36	74.00	29.64	150	199	PK
14	15780.0000	13.54	20.63	34.17	54.00	19.83	150	229	AV



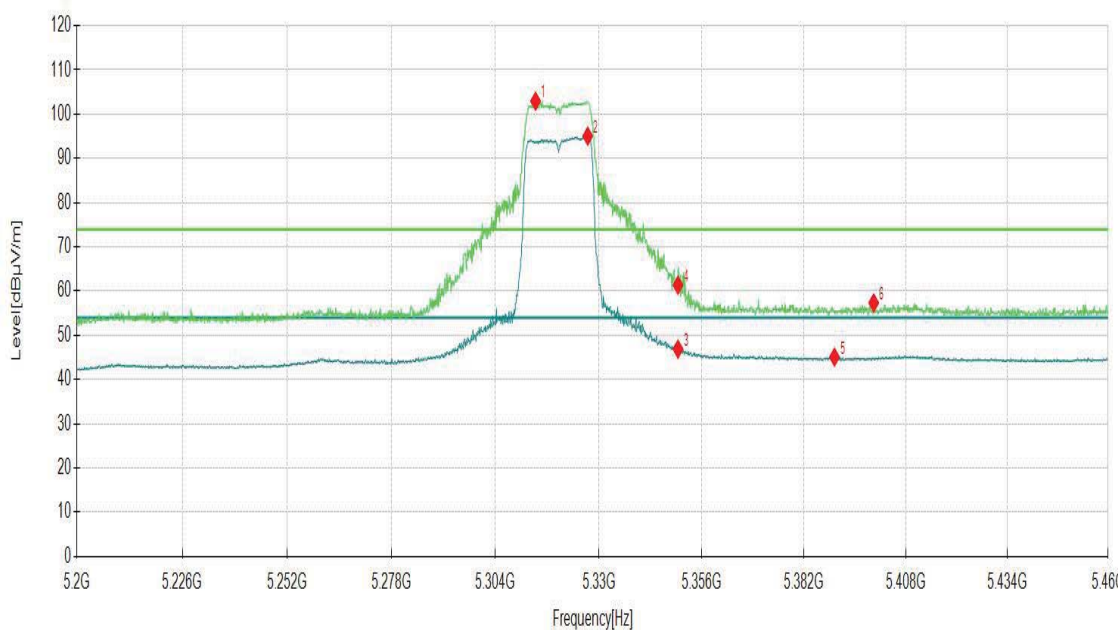
Remark: 1. The emission levels of other frequencies were greater than 20dB margin.
2. Level (dBμV/m) = Reading (dBμV/m) + Factor (dB).
3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
4. Margin(dB) = Limit[dBμV/m] - Level [dBμV/m]



Channel		802.11a CH 60			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	10600.0000	32.98	14.18	47.16	74.00	26.84	150	59	PK
2	10600.0000	26.16	14.18	40.34	54.00	13.66	150	313	AV
3	15900.0000	22.24	20.99	43.23	74.00	30.77	150	72	PK
4	15900.0000	13.22	20.99	34.21	54.00	19.79	150	95	AV
Vertical									
NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Remark
1	10600.0000	33.93	14.18	48.11	74.00	25.89	150	337	PK
2	10600.0000	25.56	14.18	39.74	54.00	14.26	150	52	AV
3	15900.0000	24.25	20.99	45.24	74.00	28.76	150	251	PK
4	15900.0000	14.35	20.99	35.34	54.00	18.66	150	48	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	5314.0670	93.84	9.12	102.96	74.00	-28.96	150	321	PK
2	5327.2036	85.68	9.36	95.04	54.00	-41.04	150	321	AV
3	5350.0000	36.92	9.96	46.88	54.00	7.12	150	317	AV
4	5350.0000	51.40	9.96	61.36	74.00	12.64	150	325	PK
5	5389.7649	35.02	10.06	45.08	54.00	8.92	150	221	AV
6	5399.7799	47.30	10.02	57.32	74.00	16.68	150	96	PK
7	10639.9640	27.75	14.17	41.92	54.00	12.08	150	51	AV
8	10639.9640	33.65	14.17	47.82	74.00	26.18	150	51	PK
9	15960.0000	23.26	21.31	44.57	74.00	29.43	150	168	PK
10	15960.0000	14.08	21.31	35.39	54.00	18.61	150	349	AV



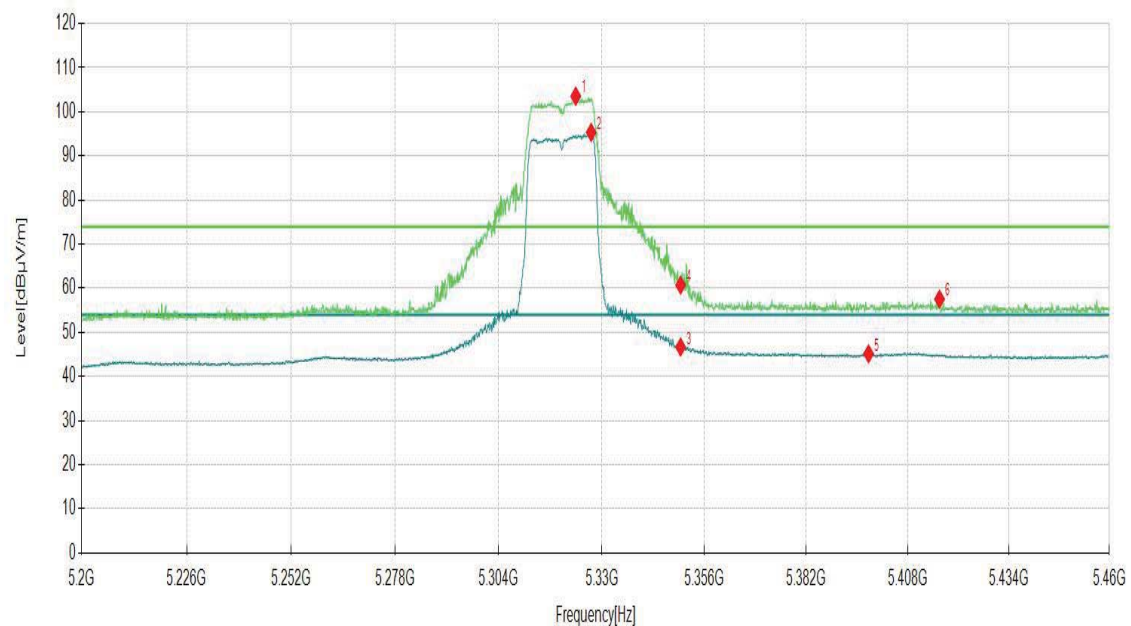
Remark: 1. The emission levels of other frequencies were greater than 20dB margin.
2. Level (dBμV/m) = Reading (dBμV/m) + Factor (dB).
3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
4. Margin(dB) = Limit[dBμV/m] - Level [dBμV/m]



Channel	802.11a 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	5323.4317	94.38	9.16	103.54	74.00	-29.54	150	18	PK
2	5327.3337	85.97	9.36	95.33	54.00	-41.33	150	22	AV
3	5350.0000	36.71	9.96	46.67	54.00	7.33	150	26	AV
4	5350.0000	50.75	9.96	60.71	74.00	13.29	150	26	PK
5	5397.9590	35.12	10.03	45.15	54.00	8.85	150	234	AV
6	5416.1681	47.57	9.96	57.53	74.00	16.47	150	334	PK
7	10639.9640	26.81	14.17	40.98	54.00	13.02	150	334	AV
8	10639.9640	34.82	14.17	48.99	74.00	25.01	150	84	PK
9	15960.0000	22.46	21.31	43.77	74.00	30.23	150	227	PK
10	15960.0000	13.65	21.31	34.96	54.00	19.04	150	233	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 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	4958.6293	47.20	7.32	54.52	74.00	19.48	150	139	PK
2	4961.5108	34.86	7.38	42.24	54.00	11.76	150	158	AV
3	5150.0000	34.74	8.03	42.77	54.00	11.23	150	281	AV
4	5150.0000	45.73	8.03	53.76	74.00	20.24	150	44	PK
5	5256.8584	88.64	9.01	97.65	54.00	-43.65	150	349	AV
6	5258.7794	97.20	9.22	106.42	74.00	-32.42	150	352	PK
7	5350.0000	45.12	9.96	55.08	74.00	18.92	150	256	PK
8	5350.0000	34.36	9.96	44.32	54.00	9.68	150	354	AV
9	5409.5748	35.03	10.28	45.31	54.00	8.69	150	120	AV
10	5410.5353	46.83	10.27	57.10	74.00	16.90	150	58	PK
11	10520.0000	31.98	14.32	46.30	68.20	21.90	150	27	PK
12	10520.0000	23.80	14.32	38.12	54.00	15.88	150	27	AV
13	15780.0000	21.72	20.63	42.35	74.00	31.65	150	299	PK
14	15780.0000	14.10	20.63	34.73	54.00	19.27	150	156	AV

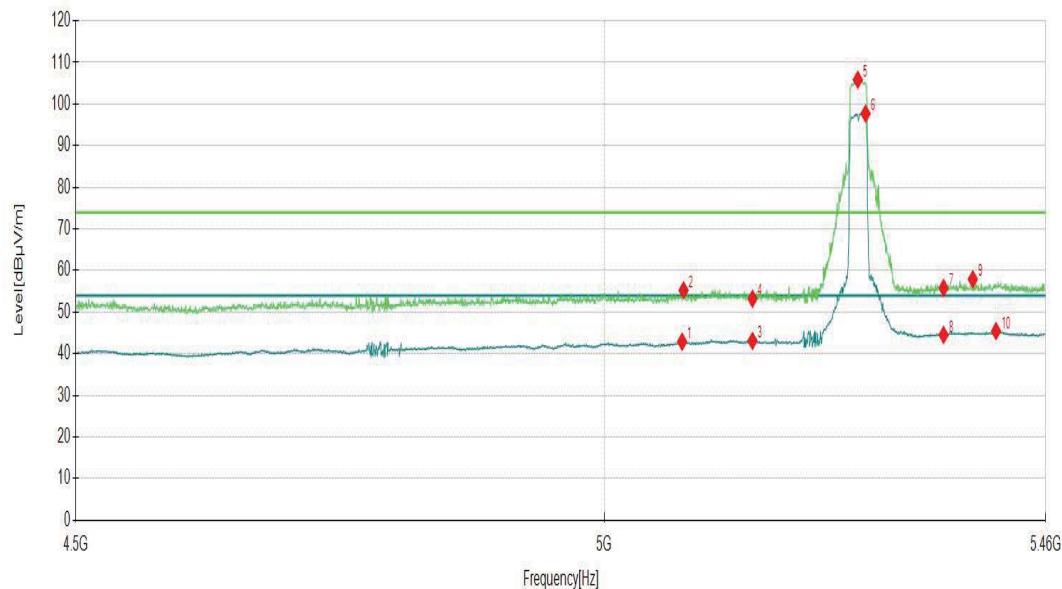
Remark: 1. The emission levels of other frequencies were greater than 20dB margin.
2. Level (dBμV/m) = Reading (dBμV/m) + Factor (dB).
3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
4. Margin(dB) = Limit[dBμV/m] - Level [dBμV/m]



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

Vertical

NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector
1	5078.2091	35.17	7.74	42.91	54.00	11.09	150	330	AV
2	5079.6498	47.45	7.80	55.25	74.00	18.75	150	8	PK
3	5150.0000	35.07	8.03	43.10	54.00	10.90	150	232	AV
4	5150.0000	45.19	8.03	53.22	74.00	20.78	150	298	PK
5	5259.2596	96.56	9.27	105.83	74.00	-31.83	150	194	PK
6	5267.4237	88.87	8.83	97.70	54.00	-43.70	150	196	AV
7	5350.0000	45.86	9.96	55.82	74.00	18.18	150	289	PK
8	5350.0000	34.57	9.96	44.53	54.00	9.47	150	196	AV
9	5381.2406	47.80	10.11	57.91	74.00	16.09	150	12	PK
10	5406.2131	35.27	10.19	45.46	54.00	8.54	150	90	AV
11	10520.0000	33.05	14.32	47.37	68.20	20.83	150	199	PK
12	10520.0000	26.32	14.32	40.64	54.00	13.36	150	331	AV
13	15780.0000	22.02	20.63	42.65	74.00	31.35	150	212	PK
14	15780.0000	13.62	20.63	34.25	54.00	19.75	150	251	AV



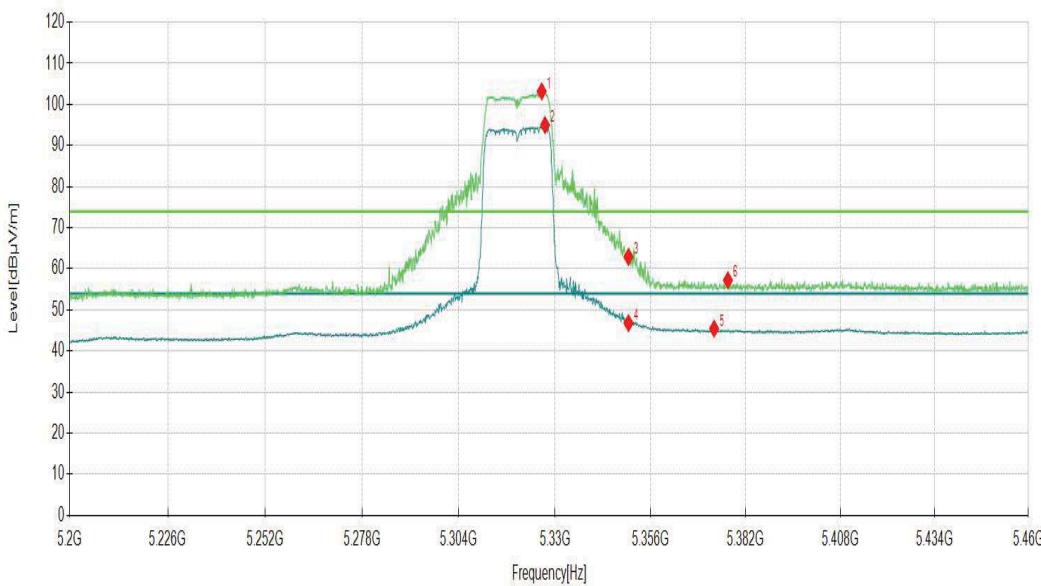
Remark: 1. The emission levels of other frequencies were greater than 20dB margin.
2. Level (dBμV/m) = Reading (dBμV/m) + Factor (dB).
3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
4. Margin(dB) = Limit[dBμV/m] - Level [dBμV/m]



Channel		802.11n20 CH 60		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	10600.0000	32.91	14.18	47.09	74.00	26.91	150	43	PK
2	10600.0000	26.45	14.18	40.63	54.00	13.37	150	46	AV
3	15900.0000	23.10	20.99	44.09	74.00	29.91	150	357	PK
4	15900.0000	14.09	20.99	35.08	54.00	18.92	150	43	AV
Vertical									
NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Remark
1	10600.0000	32.47	14.18	46.65	74.00	27.35	150	331	PK
2	10600.0000	25.97	14.18	40.15	54.00	13.85	150	331	AV
3	15900.0000	23.25	20.99	44.24	74.00	29.76	150	22	PK
4	15900.0000	13.70	20.99	34.69	54.00	19.31	150	249	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	5326.4232	93.87	9.32	103.19	74.00	-29.19	150	277	PK
2	5327.3337	85.62	9.36	94.98	54.00	-40.98	150	327	AV
3	5350.0000	52.94	9.96	62.90	74.00	11.10	150	327	PK
4	5350.0000	36.82	9.96	46.78	54.00	7.22	150	319	AV
5	5373.3767	35.44	9.99	45.43	54.00	8.57	150	80	AV
6	5377.1486	47.15	10.07	57.22	74.00	16.78	150	256	PK
7	10639.9640	27.71	14.17	41.88	54.00	12.12	150	50	AV
8	10639.9640	33.26	14.17	47.43	74.00	26.57	150	47	PK
9	15960.0000	22.59	21.31	43.90	74.00	30.10	150	130	PK
10	15960.0000	13.88	21.31	35.19	54.00	18.81	150	359	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).

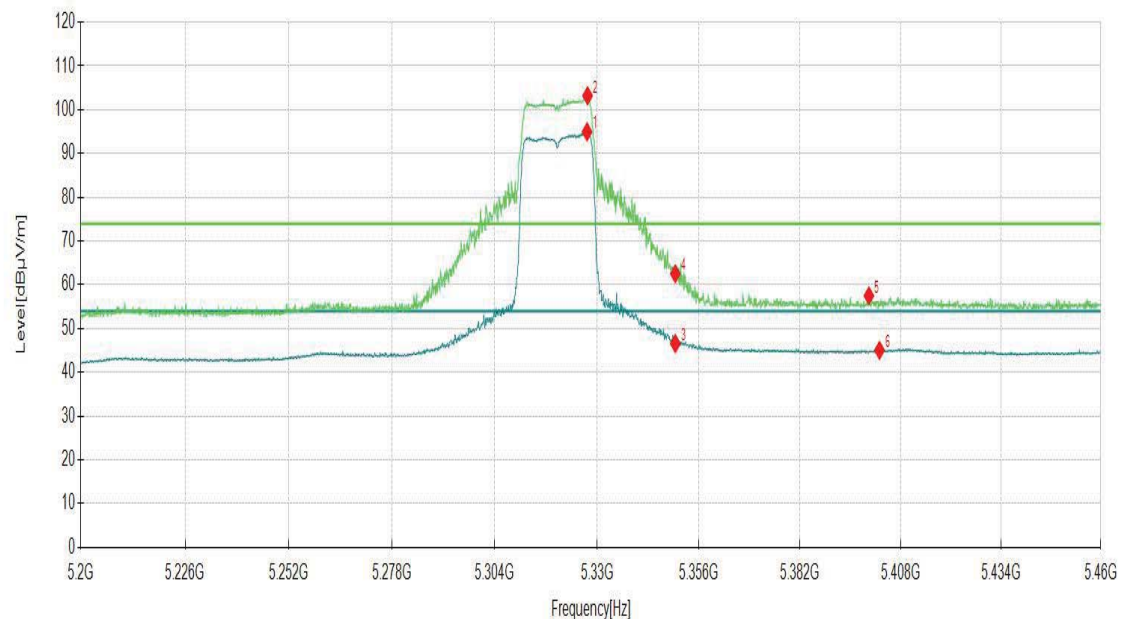
4. Margin(dB) = Limit[dBμV/m] - Level [dBμV/m]



Channel	802.11n20 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	5327.4637	85.58	9.37	94.95	54.00	-40.95	150	20	AV
2	5327.5938	93.81	9.38	103.19	74.00	-29.19	150	304	PK
3	5350.0000	36.61	9.96	46.57	54.00	7.43	150	333	AV
4	5350.0000	52.58	9.96	62.54	74.00	11.46	150	7	PK
5	5399.7799	47.45	10.02	57.47	74.00	16.53	150	266	PK
6	5402.5113	34.94	10.09	45.03	54.00	8.97	150	304	AV
7	10639.9640	27.49	14.17	41.66	54.00	12.34	150	331	AV
8	10640.0000	32.47	14.17	46.64	74.00	27.36	150	331	PK
9	15960.0000	13.74	21.31	35.05	54.00	18.95	150	0	AV
10	15960.0000	22.93	21.31	44.24	74.00	29.76	150	39	PK



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	5034.5073	46.96	7.47	54.43	74.00	19.57	150	314	PK
2	5041.7109	34.97	7.60	42.57	54.00	11.43	150	163	AV
3	5150.0000	34.86	8.03	42.89	54.00	11.11	150	244	AV
4	5150.0000	45.90	8.03	53.93	74.00	20.07	150	57	PK
5	5259.2596	85.65	9.27	94.92	54.00	-40.92	150	351	AV
6	5274.1471	95.01	8.61	103.62	74.00	-29.62	150	351	PK
7	5350.0000	46.17	9.96	56.13	74.00	17.87	150	308	PK
8	5350.0000	34.67	9.96	44.63	54.00	9.37	150	340	AV
9	5409.5748	35.24	10.28	45.52	54.00	8.48	150	336	AV
10	5417.2586	47.37	9.91	57.28	74.00	16.72	150	142	PK
11	10540.0000	32.44	14.39	46.83	68.20	21.37	150	47	PK
12	10540.0000	23.50	14.39	37.89	54.00	16.11	150	76	AV
13	15810.0000	23.11	20.56	43.67	74.00	30.33	150	230	PK
14	15810.0000	13.25	20.56	33.81	54.00	20.19	150	246	AV

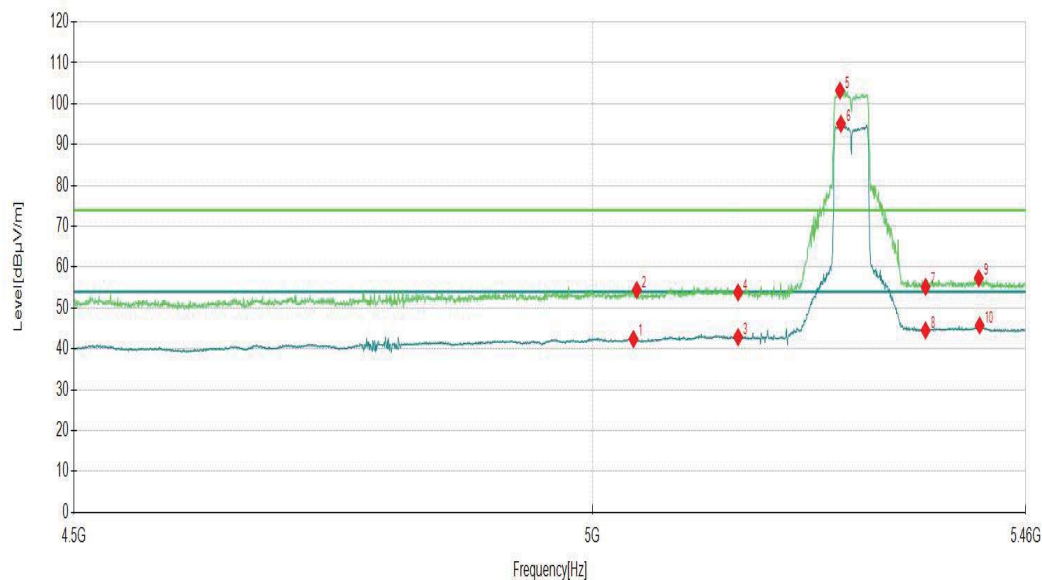
Remark: 1. The emission levels of other frequencies were greater than 20dB margin.
2. Level (dBμV/m) = Reading (dBμV/m) + Factor (dB).
3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
4. Margin(dB) = Limit[dBμV/m] - Level [dBμV/m]



Channel	802.11n40 CH54	Frequency	5270 MHz
Frequency Range	Above 1G	Detector Function	PK/AV

Vertical

NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector
1	5041.7109	34.80	7.60	42.40	54.00	11.60	150	263	AV
2	5045.0725	46.96	7.46	54.42	74.00	19.58	150	220	PK
3	5150.0000	34.86	8.03	42.89	54.00	11.11	150	210	AV
4	5150.0000	45.78	8.03	53.81	74.00	20.19	150	73	PK
5	5257.8189	94.10	9.11	103.21	74.00	-29.21	150	197	PK
6	5258.7794	85.87	9.22	95.09	54.00	-41.09	150	197	AV
7	5350.0000	45.22	9.96	55.18	74.00	18.82	150	103	PK
8	5350.0000	34.56	9.96	44.52	54.00	9.48	150	155	AV
9	5408.1341	47.09	10.24	57.33	74.00	16.67	150	95	PK
10	5409.0945	35.46	10.27	45.73	54.00	8.27	150	197	AV
11	10540.0000	32.58	14.39	46.97	68.20	21.23	150	338	PK
12	10540.0000	23.38	14.39	37.77	54.00	16.23	150	89	AV
13	15810.0000	22.18	20.56	42.74	74.00	31.26	150	359	PK
14	15810.0000	13.64	20.56	34.20	54.00	19.80	150	276	AV



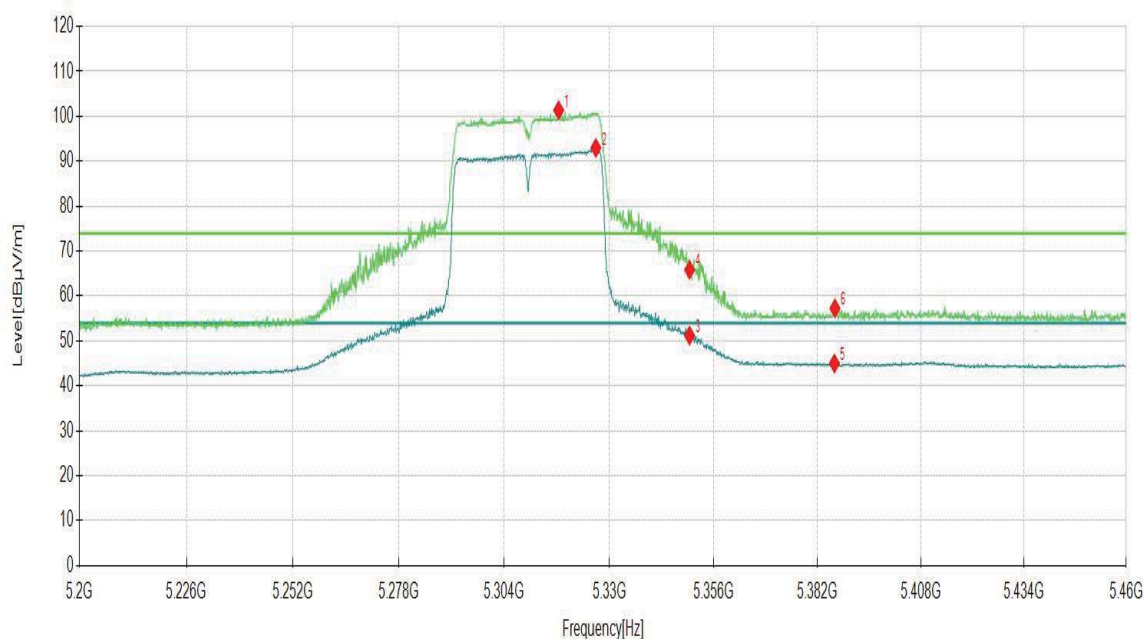
Remark: 1. The emission levels of other frequencies were greater than 20dB margin.
2. Level (dBμV/m) = Reading (dBμV/m) + Factor (dB).
3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
4. Margin(dB) = Limit[dBμV/m] - Level [dBμV/m]



Channel	802.11n40 CH62	Frequency	5310 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	5317.4487	92.30	9.03	101.33	74.00	-27.33	150	327	PK
2	5326.6833	83.65	9.33	92.98	54.00	-38.98	150	323	AV
3	5350.0000	41.24	9.96	51.20	54.00	2.80	150	318	AV
4	5350.0000	55.90	9.96	65.86	74.00	8.14	150	260	PK
5	5386.2531	34.92	10.08	45.00	54.00	9.00	150	264	AV
6	5386.3832	47.18	10.08	57.26	74.00	16.74	150	340	PK
7	10620.0000	32.12	14.27	46.39	74.00	27.61	150	40	PK
8	10620.0000	26.50	14.27	40.77	54.00	13.23	150	50	AV
9	15930.0000	21.65	21.20	42.85	74.00	31.15	150	334	PK
10	15930.0000	13.20	21.20	34.40	54.00	19.60	150	272	AV



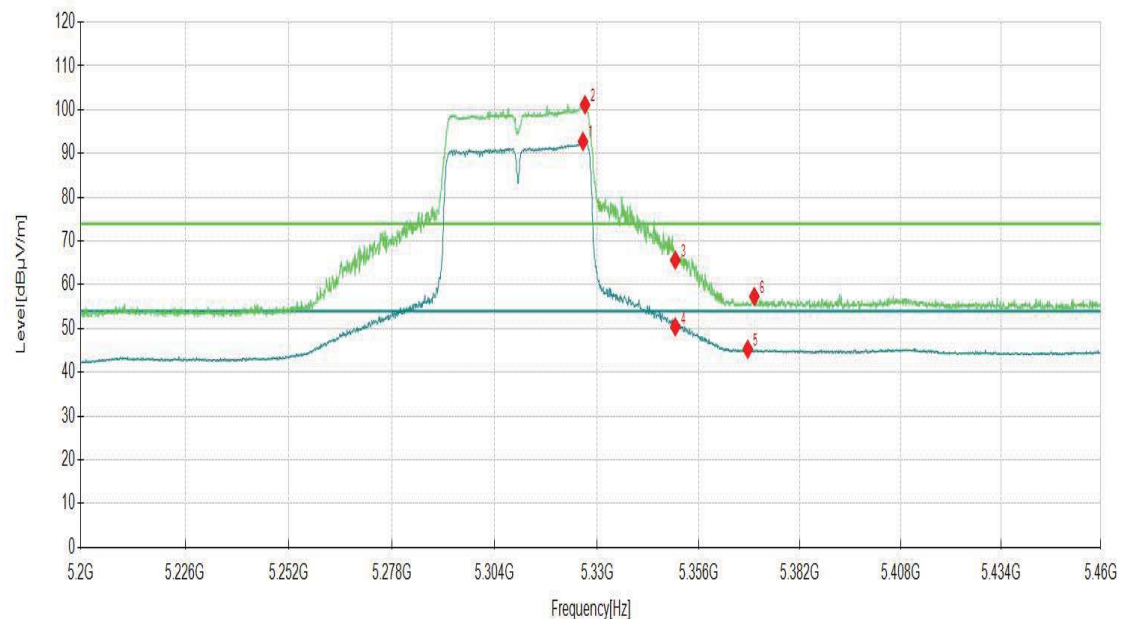
Remark: 1. The emission levels of other frequencies were greater than 20dB margin.
2. Level (dBμV/m) = Reading (dBμV/m) + Factor (dB).
3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
4. Margin(dB) = Limit[dBμV/m] - Level [dBμV/m]



Channel	802.11n40 CH62	Frequency	5310 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	5326.4232	83.44	9.32	92.76	54.00	-38.76	150	21	AV
2	5326.9435	91.80	9.34	101.14	74.00	-27.14	150	21	PK
3	5350.0000	55.68	9.96	65.64	74.00	8.36	150	242	PK
4	5350.0000	40.44	9.96	50.40	54.00	3.60	150	242	AV
5	5368.5643	35.33	9.95	45.28	54.00	8.72	150	21	AV
6	5370.2551	47.42	9.93	57.35	74.00	16.65	150	334	PK
7	10620.0000	34.63	14.27	48.90	74.00	25.10	150	78	PK
8	10620.0000	25.61	14.27	39.88	54.00	14.12	150	82	AV
9	15930.0000	21.78	21.20	42.98	74.00	31.02	150	174	PK
10	15930.0000	13.59	21.20	34.79	54.00	19.21	150	174	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).

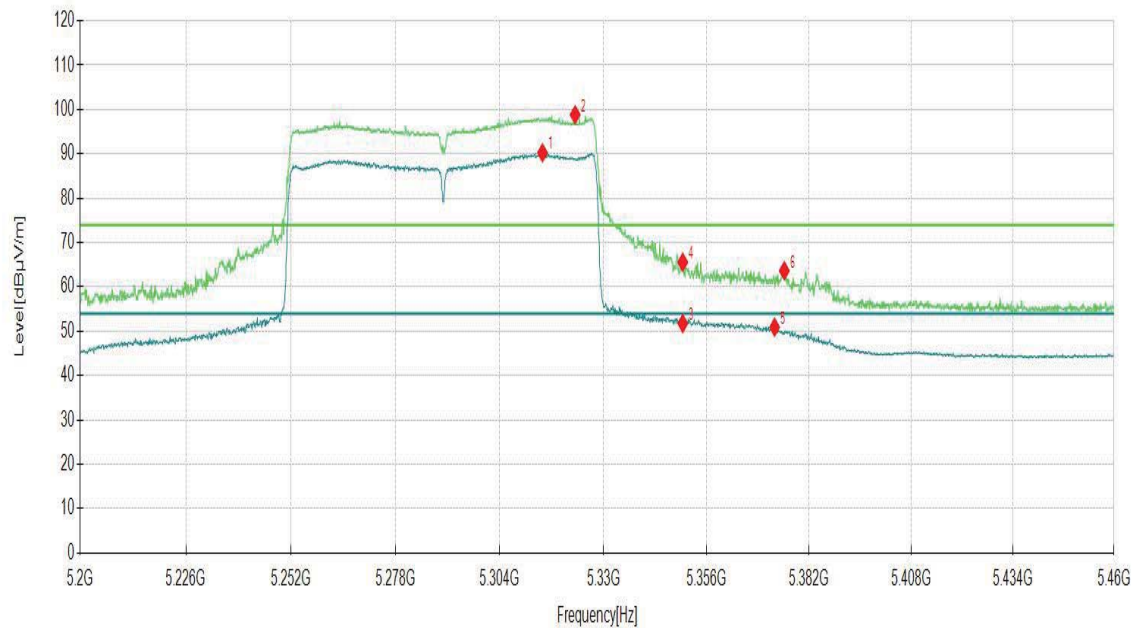
4. Margin(dB) = Limit[dBμV/m] - Level [dBμV/m]



Channel	802.11ac80 CH58	Frequency	5290 MHz
Frequency Range	Above 1G	Detector Function	PK/AV

Horizontal

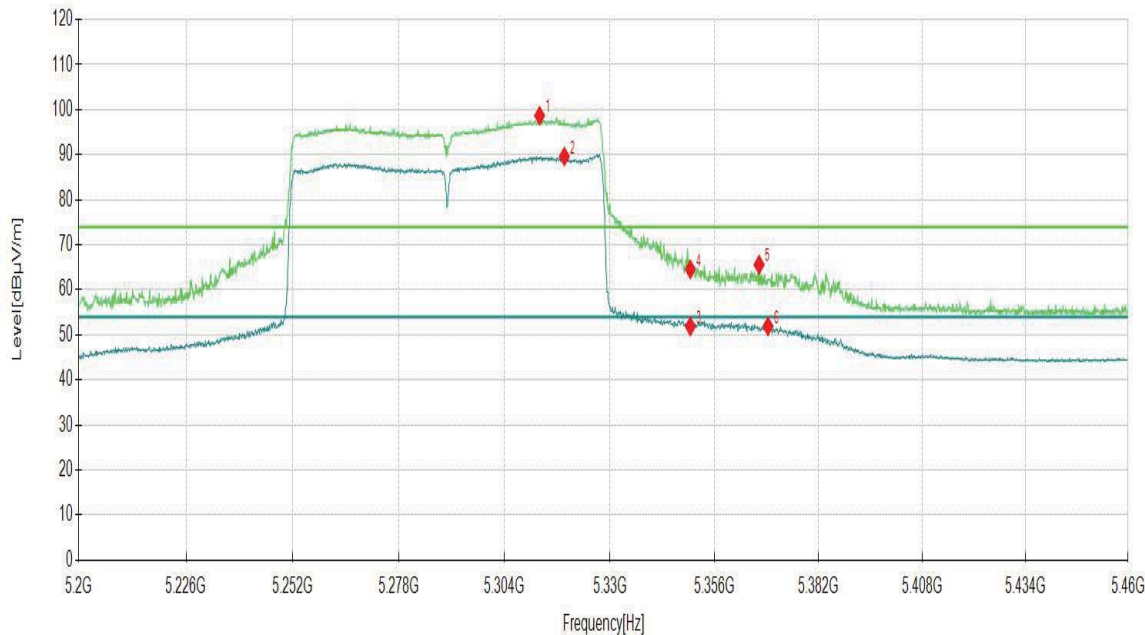
NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector
1	5314.7174	81.15	9.10	90.25	54.00	-36.25	150	322	AV
2	5322.9115	89.70	9.13	98.83	74.00	-24.83	150	322	PK
3	5350.0000	41.80	9.96	51.76	54.00	2.24	150	322	AV
4	5350.0000	55.61	9.96	65.57	74.00	8.43	150	96	PK
5	5373.2466	40.92	9.99	50.91	54.00	3.09	150	259	AV
6	5375.7179	53.61	10.04	63.65	74.00	10.35	150	255	PK
7	10580.0000	32.70	14.11	46.81	68.20	21.39	150	46	PK
8	10580.0000	25.10	14.11	39.21	54.00	14.79	150	46	AV
9	15870.0000	22.98	20.81	43.79	74.00	30.21	150	20	PK
10	15870.0000	13.66	20.81	34.47	54.00	19.53	150	157	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	802.11ac80 CH58			Frequency	5290 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	5312.6363	89.53	9.15	98.68	74.00	-24.68	150	24	PK
2	5318.7494	80.61	9.00	89.61	54.00	-35.61	150	20	AV
3	5350.0000	41.94	9.96	51.90	54.00	2.10	150	24	AV
4	5350.0000	54.58	9.96	64.54	74.00	9.46	150	32	PK
5	5367.1336	55.62	9.96	65.58	74.00	8.42	150	24	PK
6	5369.3447	41.97	9.94	51.91	54.00	2.09	150	24	AV
7	10580.0000	31.79	14.11	45.90	68.20	22.30	150	66	PK
8	10580.0000	23.45	14.11	37.56	54.00	16.44	150	96	AV
9	15870.0000	22.65	20.81	43.46	74.00	30.54	150	109	PK
10	15870.0000	13.94	20.81	34.75	54.00	19.25	150	262	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]



3.1.8 TEST RESULTS - Band 3 (5500-5720MHz):

ABOVE 1GHz DATA

Channel		802.11a CH100		Frequency		5500 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	5453.4267	47.49	9.81	57.30	74.00	16.70	150	99	PK
2	5454.4272	35.44	9.84	45.28	54.00	8.72	150	169	AV
3	5470.0000	51.99	9.94	61.93	68.20	6.27	150	169	PK
4	5495.1976	94.97	9.03	104.00	68.20	-35.80	150	284	PK
5	5507.4537	86.22	9.62	95.84	54.00	-41.84	150	169	AV
6	11000.0000	31.59	14.83	46.42	74.00	27.58	150	344	PK
7	11000.0000	25.32	14.83	40.15	54.00	13.85	150	344	AV
8	16500.0000	20.99	23.16	44.15	68.20	24.05	150	104	PK
9	16500.0000	11.90	23.16	35.06	54.00	18.94	150	349	AV

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

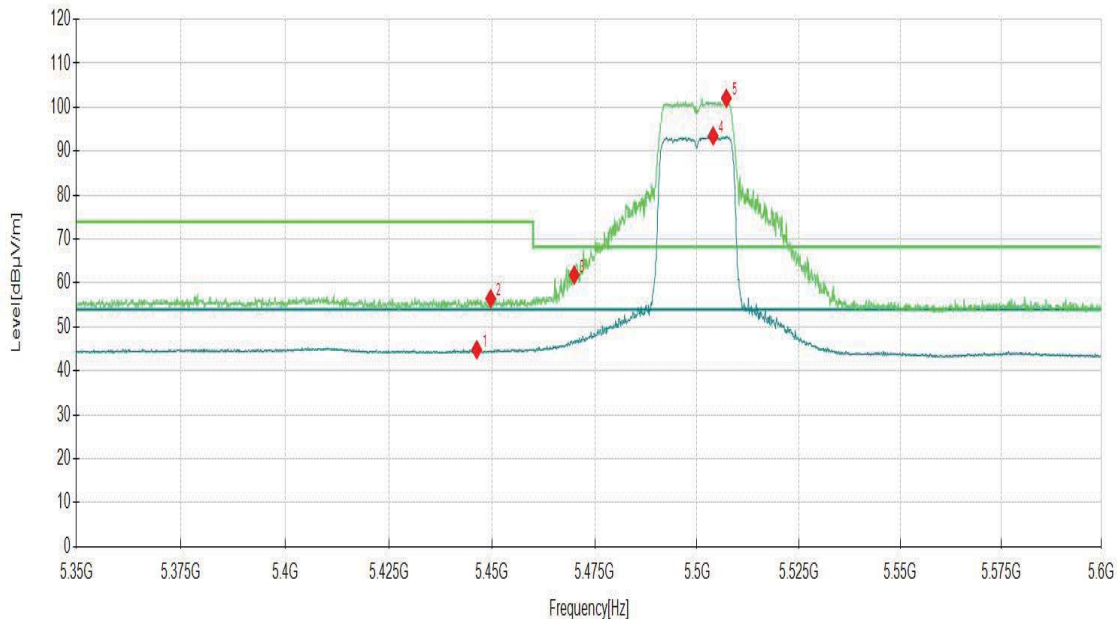
2. Level (dBμV/m) = Reading (dBμV/m) + Factor (dB).

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

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



Channel	802.11a CH100			Frequency	5500 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	5446.2981	35.10	9.72	44.82	54.00	9.18	150	90	AV
2	5449.6748	46.72	9.71	56.43	74.00	17.57	150	277	PK
3	5470.0000	51.90	9.94	61.84	68.20	6.36	150	171	PK
4	5503.9520	84.05	9.42	93.47	54.00	-39.47	150	8	AV
5	5507.2036	92.45	9.60	102.05	68.20	-33.85	150	5	PK
6	11000.0000	32.81	14.83	47.64	74.00	26.36	150	329	PK
7	11000.0000	24.00	14.83	38.83	54.00	15.17	150	357	AV
8	16500.0000	20.93	23.16	44.09	68.20	24.11	150	239	PK
9	16500.0000	12.34	23.16	35.50	54.00	18.50	150	203	AV



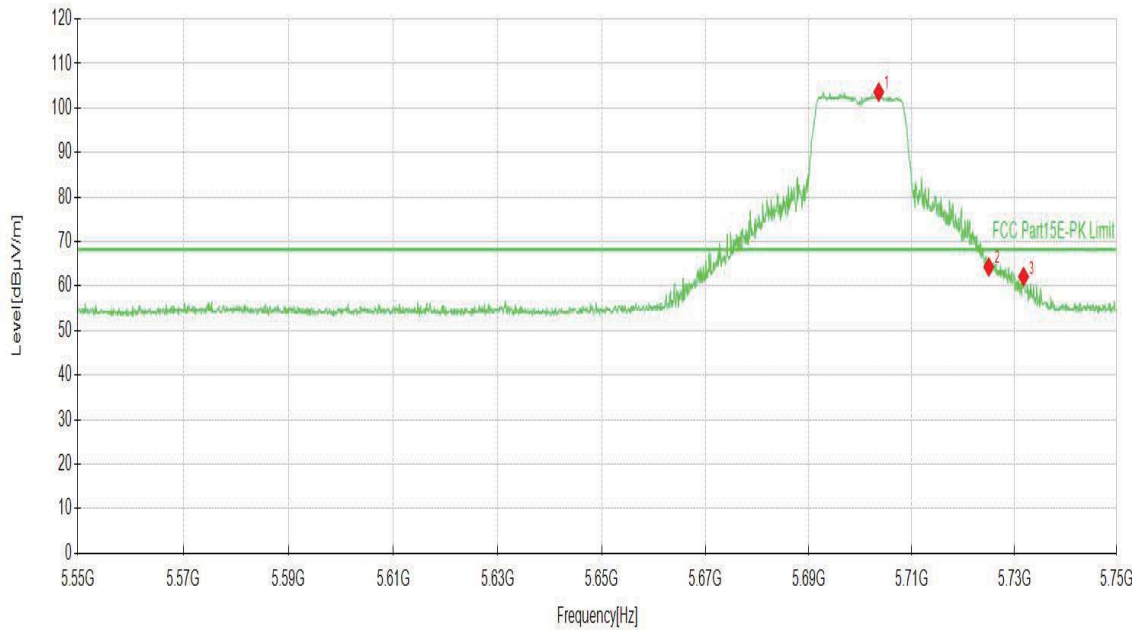
Remark: 1. The emission levels of other frequencies were greater than 20dB margin.
2. Level (dBμV/m) = Reading (dBμV/m) + Factor (dB).
3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
4. Margin(dB) = Limit[dBμV/m] - Level [dBμV/m]



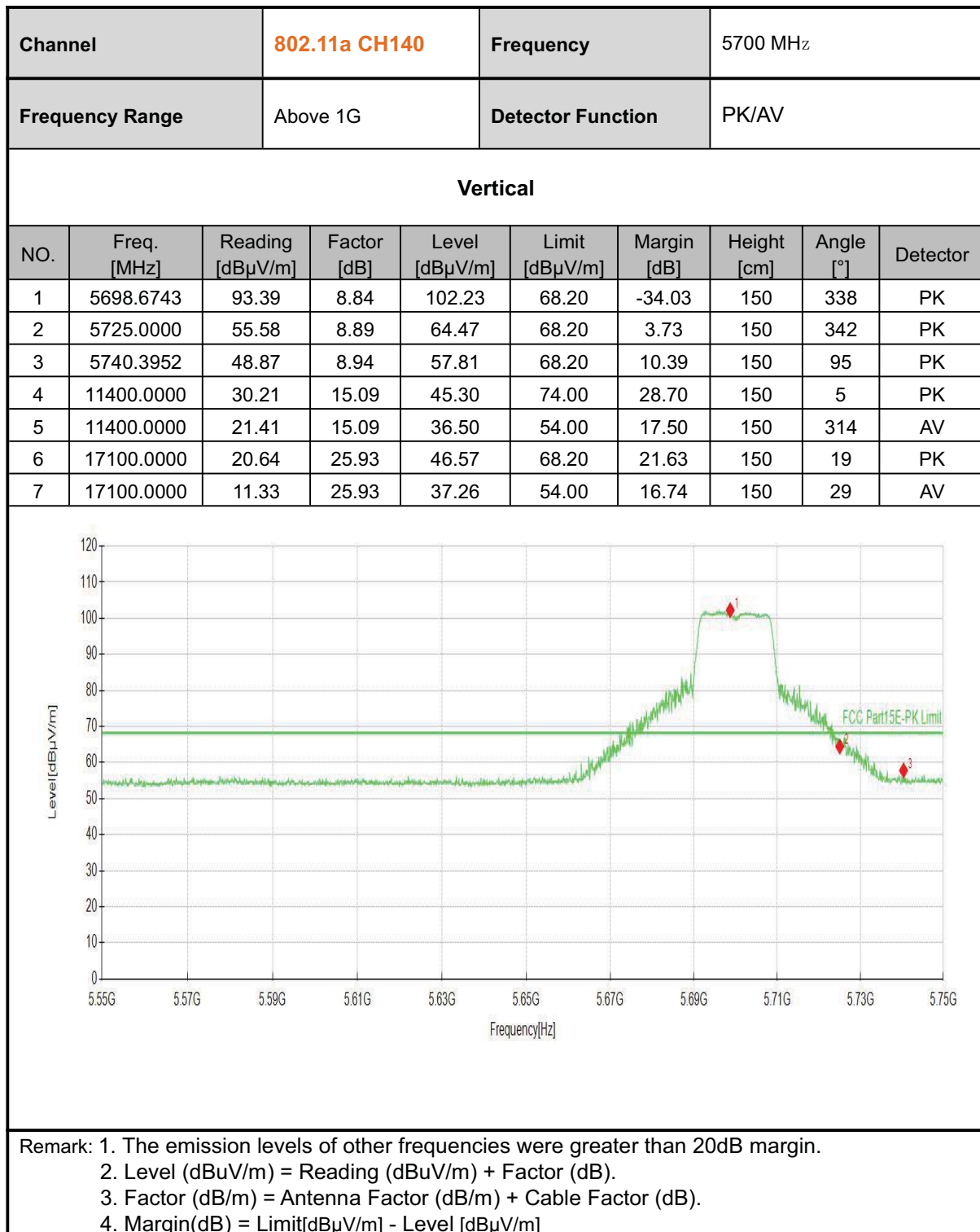
Channel		802.11a CH 116			Frequency		5600MHz		
Frequency Range		Above 1G			Detector Function		PK/AV		
Horizontal									
NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector
1	11159.4960	24.00	15.23	39.23	54.00	14.77	150	348	AV
2	11160.0000	30.18	15.23	45.41	74.00	28.59	150	338	PK
3	16740.0000	11.89	24.45	36.34	54.00	17.66	150	37	AV
4	16740.0000	21.57	24.45	46.02	68.20	22.18	150	203	PK
Vertical									
NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Remark
1	11160.0000	32.29	15.23	47.52	74.00	26.48	150	328	PK
2	11160.0000	22.91	15.23	38.14	54.00	15.86	150	334	AV
3	16740.0000	20.16	24.45	44.61	68.20	23.59	150	52	PK
4	16740.0000	12.27	24.45	36.72	54.00	17.28	150	67	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 CH140			Frequency	5700 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	5703.5768	94.75	8.83	103.58	68.20	-35.38	150	176	PK
2	5725.0000	55.44	8.89	64.33	68.20	3.87	150	172	PK
3	5731.7909	53.41	8.72	62.13	68.20	6.07	150	172	PK
4	11400.0000	31.03	15.09	46.12	74.00	27.88	150	344	PK
5	11400.0000	22.41	15.09	37.50	54.00	16.50	150	344	AV
6	17100.0000	20.15	25.93	46.08	68.20	22.12	150	174	PK
7	17100.0000	11.35	25.93	37.28	54.00	16.72	150	34	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 CH 144		Frequency		5720MHz			
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	11440.0000	40.16	15.04	55.20	74.00	18.80	150	339	PK
2	11440.0000	33.21	15.04	48.25	54.00	5.75	150	339	AV
3	17160.0000	19.98	25.86	45.84	68.20	22.36	150	179	PK
4	17160.0000	12.28	25.86	38.14	54.00	15.86	150	99	AV
Vertical									
NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Remark
1	11440.0000	37.12	15.04	52.16	74.00	21.84	150	342	PK
2	11440.0000	29.24	15.04	44.28	54.00	9.72	150	342	AV
3	17160.0000	20.34	25.86	46.20	68.20	22.00	150	103	PK
4	17160.0000	13.24	25.86	39.10	54.00	14.90	150	292	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 CH100		Frequency		5500 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	5453.0515	47.25	9.80	57.05	74.00	16.95	150	167	PK
2	5456.1781	35.83	9.88	45.71	54.00	8.29	150	171	AV
3	5470.0000	55.01	9.94	64.95	68.20	3.25	150	279	PK
4	5503.0765	95.21	9.37	104.58	68.20	-36.38	150	167	PK
5	5507.2036	86.09	9.60	95.69	54.00	-41.69	150	167	AV
6	11000.0000	32.32	14.83	47.15	74.00	26.85	150	348	PK
7	11000.0000	25.26	14.83	40.09	54.00	13.91	150	348	AV
8	16500.0000	21.00	23.16	44.16	68.20	24.04	150	24	PK
9	16500.0000	11.61	23.16	34.77	54.00	19.23	150	153	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).

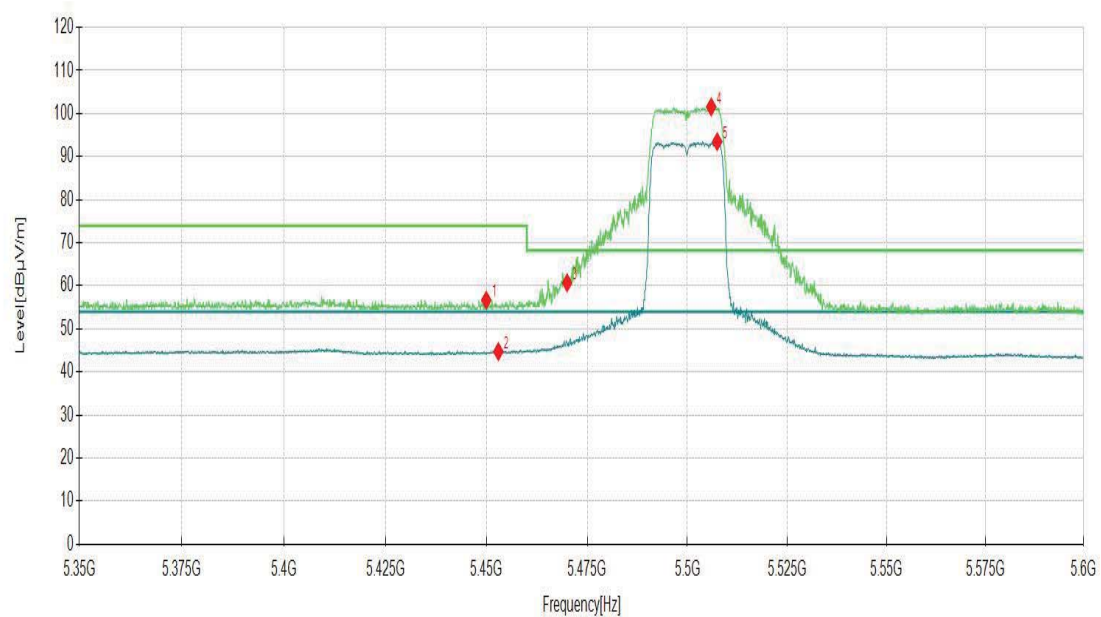
4. Margin(dB) = Limit[dBuV/m] - Level [dBuV/m]



Channel	802.11n20 CH100	Frequency	5500 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	5449.9250	46.95	9.71	56.66	74.00	17.34	150	47	PK
2	5452.9265	34.95	9.79	44.74	54.00	9.26	150	5	AV
3	5470.0000	50.75	9.94	60.69	68.20	7.51	150	175	PK
4	5505.9530	92.01	9.53	101.54	68.20	-33.34	150	8	PK
5	5507.4537	83.85	9.62	93.47	54.00	-39.47	150	8	AV
6	11000.0000	32.12	14.83	46.95	74.00	27.05	150	357	PK
7	11000.0000	24.54	14.83	39.37	54.00	14.63	150	8	AV
8	16500.0000	20.93	23.16	44.09	68.20	24.11	150	268	PK
9	16500.0000	12.37	23.16	35.53	54.00	18.47	150	298	AV



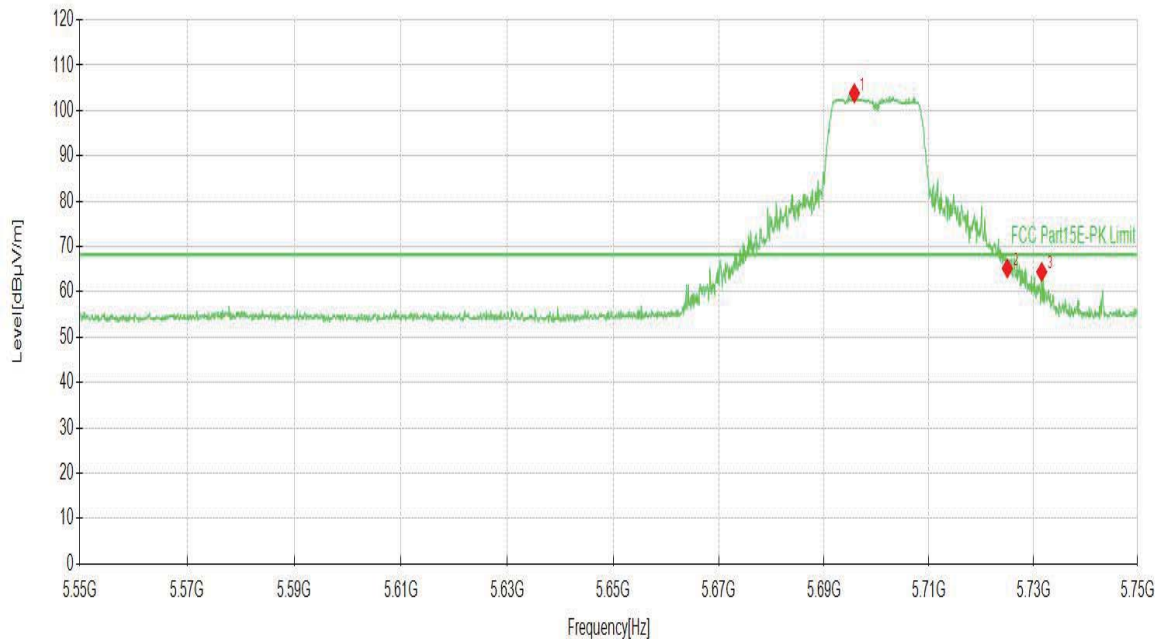
Remark: 1. The emission levels of other frequencies were greater than 20dB margin.
2. Level (dBμV/m) = Reading (dBμV/m) + Factor (dB).
3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
4. Margin(dB) = Limit[dBμV/m] - Level [dBμV/m]



Channel		802.11n20 CH 116			Frequency		5600MHz		
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	11160.0000	30.02	15.23	45.25	74.00	28.75	150	0	PK
2	11160.0000	21.49	15.23	36.72	54.00	17.28	150	2	AV
3	16740.0000	21.16	24.45	45.61	68.20	22.59	150	54	PK
4	16740.0000	12.49	24.45	36.94	54.00	17.06	150	9	AV
Vertical									
NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Remark
1	11160.0000	30.62	15.23	45.85	74.00	28.15	150	328	PK
2	11160.0000	22.63	15.23	37.86	54.00	16.14	150	8	AV
3	16740.0000	21.23	24.45	45.68	68.20	22.52	150	113	PK
4	16740.0000	12.55	24.45	37.00	54.00	17.00	150	359	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 CH140		Frequency		5700 MHz _z			
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	5695.7729	95.23	8.58	103.81	68.20	-35.61	150	174	PK
2	5725.0000	56.30	8.89	65.19	68.20	3.01	150	174	PK
3	5731.5908	55.69	8.72	64.41	68.20	3.79	150	174	PK
4	11400.0000	31.05	15.09	46.14	74.00	27.86	150	337	PK
5	11400.0000	23.12	15.09	38.21	54.00	15.79	150	337	AV
6	17100.0000	20.64	25.93	46.57	68.20	21.63	150	357	PK
7	17100.0000	11.15	25.93	37.08	54.00	16.92	150	126	AV



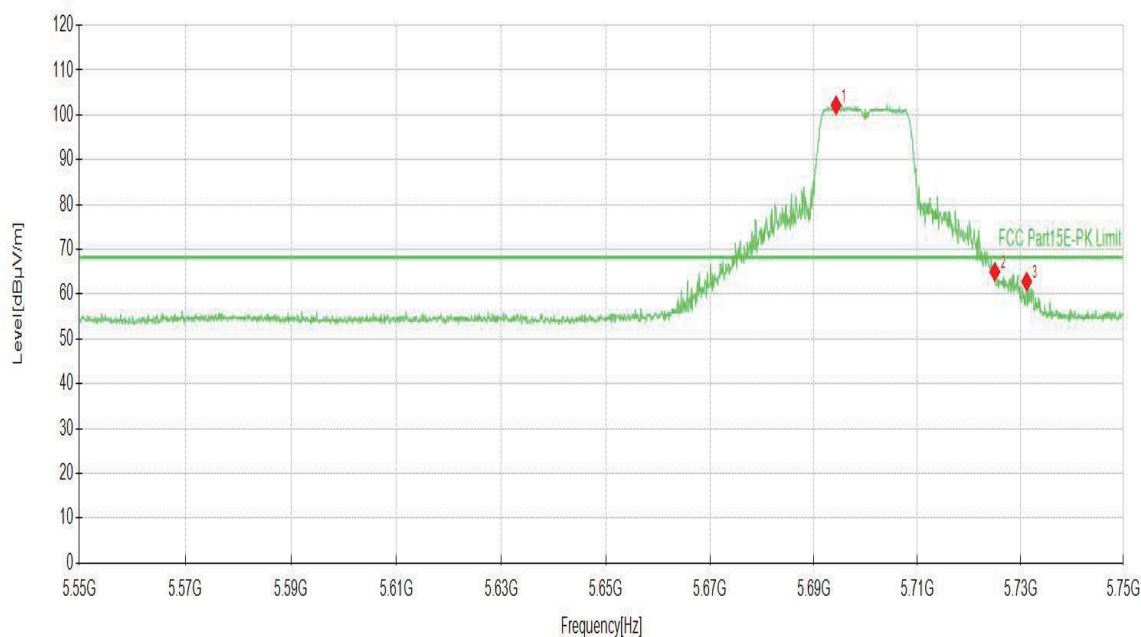
Remark: 1. The emission levels of other frequencies were greater than 20dB margin.
2. Level (dBμV/m) = Reading (dBμV/m) + Factor (dB).
3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
4. Margin(dB) = Limit[dBμV/m] - Level [dBμV/m]



Channel	802.11n20 CH140	Frequency	5700 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	5694.2721	93.72	8.44	102.16	68.20	-33.96	150	338	PK
2	5725.0000	56.11	8.89	65.00	68.20	3.20	150	342	PK
3	5731.1906	54.12	8.71	62.83	68.20	5.37	150	334	PK
4	11400.0000	31.27	15.09	46.36	74.00	27.64	150	343	PK
5	11400.0000	22.11	15.09	37.20	54.00	16.80	150	313	AV
6	17100.0000	20.12	25.93	46.05	68.20	22.15	150	64	PK
7	17100.0000	11.11	25.93	37.04	54.00	16.96	150	8	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]



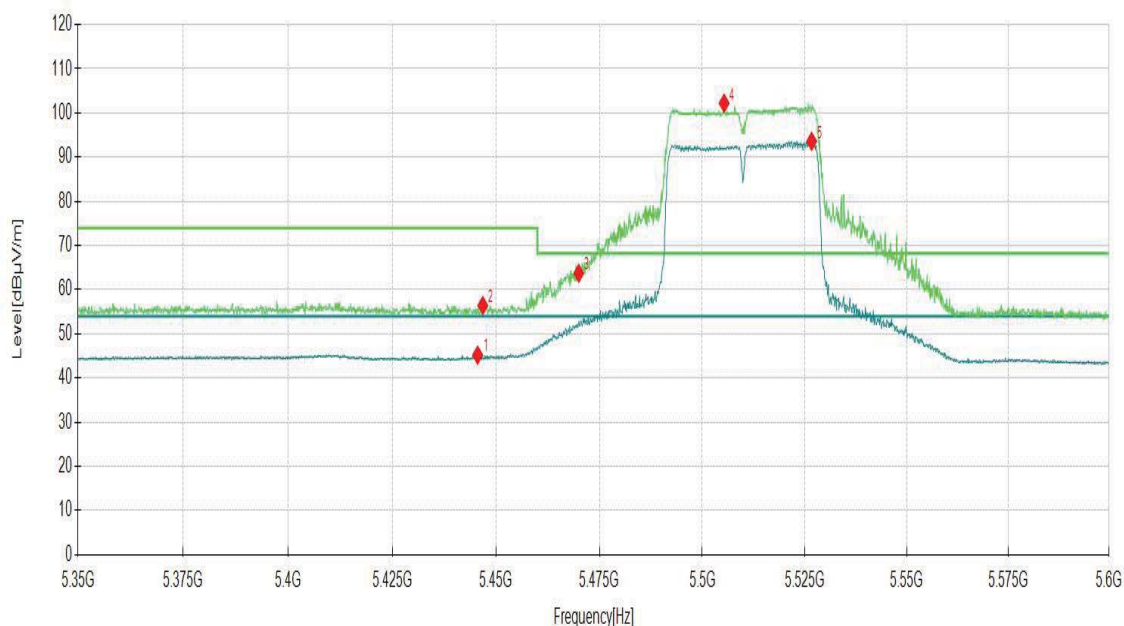
Channel		802.11n20 CH 144			Frequency		5720MHz		
Frequency Range		Above 1G			Detector Function		PK/AV		
Horizontal									
NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector
1	11440.0000	38.47	15.04	53.51	74.00	20.49	150	351	PK
2	11440.0000	31.18	15.04	46.22	54.00	7.78	150	351	AV
3	17160.0000	20.01	25.86	45.87	68.20	22.33	150	7	PK
4	17160.0000	12.12	25.86	37.98	54.00	16.02	150	91	AV
Vertical									
NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Remark
1	11440.0000	34.72	15.04	49.76	74.00	24.24	150	355	PK
2	11440.0000	27.97	15.04	43.01	54.00	10.99	150	321	AV
3	17160.0000	20.28	25.86	46.14	68.20	22.06	150	91	PK
4	17160.0000	13.07	25.86	38.93	54.00	15.07	150	81	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	802.11n40 CH102	Frequency	5510 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	5445.5478	35.48	9.72	45.20	54.00	8.80	150	176	AV
2	5446.7984	46.69	9.72	56.41	74.00	17.59	150	244	PK
3	5470.0000	53.76	9.94	63.70	68.20	4.50	150	167	PK
4	5505.3277	92.70	9.50	102.20	68.20	-34.00	150	171	PK
5	5526.7134	84.48	9.11	93.59	54.00	-39.59	150	171	AV
6	11020.0000	32.08	14.89	46.97	74.00	27.03	150	343	PK
7	11020.0000	25.85	14.89	40.74	54.00	13.26	150	343	AV
8	16530.0000	19.99	23.21	43.20	68.20	25.00	150	357	PK
9	16530.0000	11.88	23.21	35.09	54.00	18.91	150	338	AV



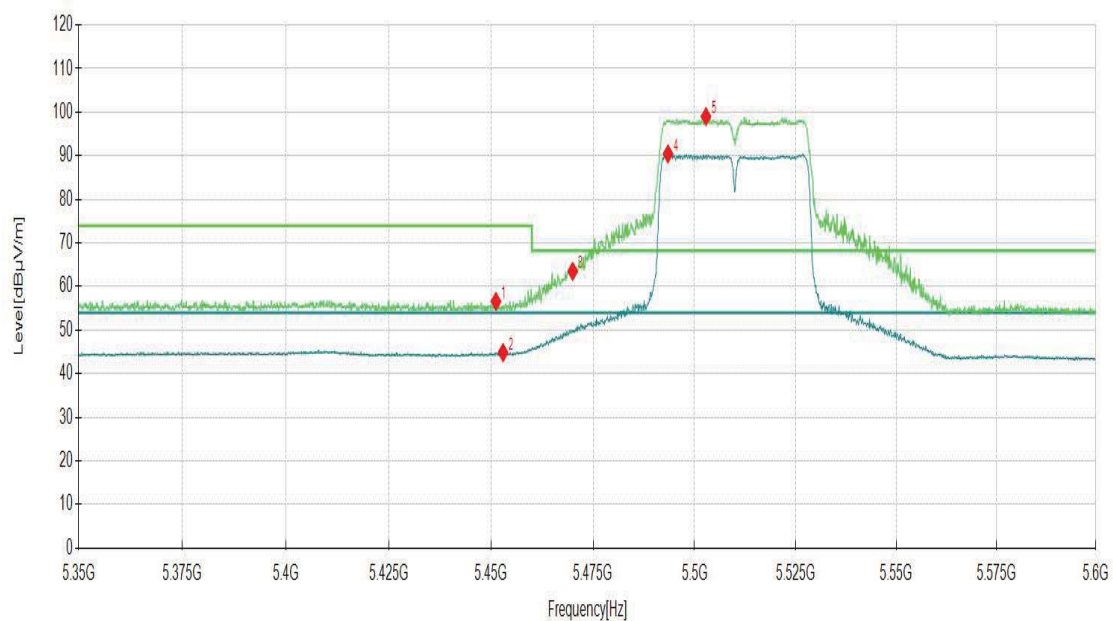
Remark: 1. The emission levels of other frequencies were greater than 20dB margin.
2. Level (dBμV/m) = Reading (dBμV/m) + Factor (dB).
3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
4. Margin(dB) = Limit[dBμV/m] - Level [dBμV/m]



Channel	802.11n40 CH102	Frequency	5510 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	5451.1756	46.84	9.75	56.59	74.00	17.41	150	44	PK
2	5452.9265	35.04	9.79	44.83	54.00	9.17	150	180	AV
3	5470.0000	53.55	9.94	63.49	68.20	4.71	150	265	PK
4	5493.4467	81.45	8.97	90.42	54.00	-36.42	150	10	AV
5	5502.8264	89.65	9.36	99.01	68.20	-30.81	150	3	PK
6	11020.0000	31.13	14.89	46.02	74.00	27.98	150	44	PK
7	11020.0000	24.68	14.89	39.57	54.00	14.43	150	9	AV
8	16530.0000	21.74	23.21	44.95	68.20	23.25	150	338	PK
9	16530.0000	12.06	23.21	35.27	54.00	18.73	150	208	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).

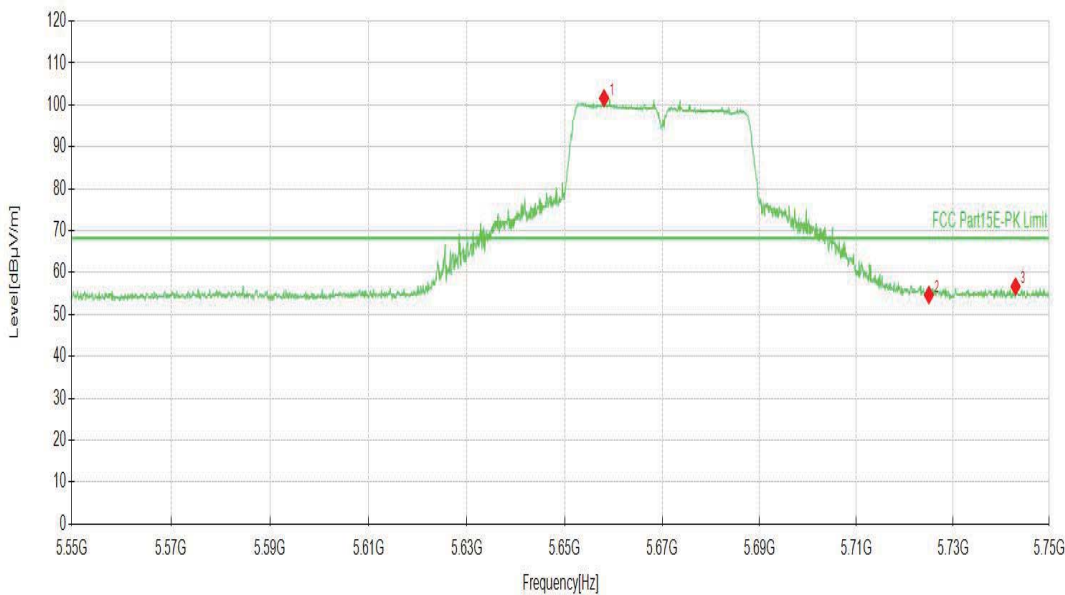
4. Margin(dB) = Limit[dBμV/m] - Level [dBμV/m]



Channel		802.11n40 CH 110			Frequency		5630MHz		
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	11099.8200	24.78	15.26	40.04	54.00	13.96	150	343	AV
2	11099.8200	31.81	15.26	47.07	74.00	26.93	150	348	PK
3	16650.0000	21.29	24.11	45.40	68.20	22.80	150	99	PK
4	16650.0000	12.22	24.11	36.33	54.00	17.67	150	99	AV
Vertical									
NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Remark
1	11099.8200	23.62	15.26	38.88	54.00	15.12	150	9	AV
2	11100.0000	28.62	15.25	43.87	74.00	30.13	150	319	PK
3	16650.0000	12.14	24.11	36.25	54.00	17.75	150	349	AV
4	16650.0000	21.40	24.11	45.51	68.20	22.69	150	349	PK
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		802.11n40 CH134		Frequency		5670 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	5658.0540	92.41	9.19	101.60	68.20	-33.40	150	174	PK
2	5725.0000	45.77	8.89	54.66	68.20	13.54	150	332	PK
3	5742.9965	47.74	8.94	56.68	68.20	11.52	150	316	PK
4	11339.6940	26.66	14.88	41.54	54.00	12.46	150	344	AV
5	11340.0000	30.92	14.88	45.80	74.00	28.20	150	344	PK
6	17010.0000	11.05	26.15	37.20	54.00	16.80	150	156	AV
7	17010.0000	21.32	26.15	47.47	68.20	20.73	150	151	PK



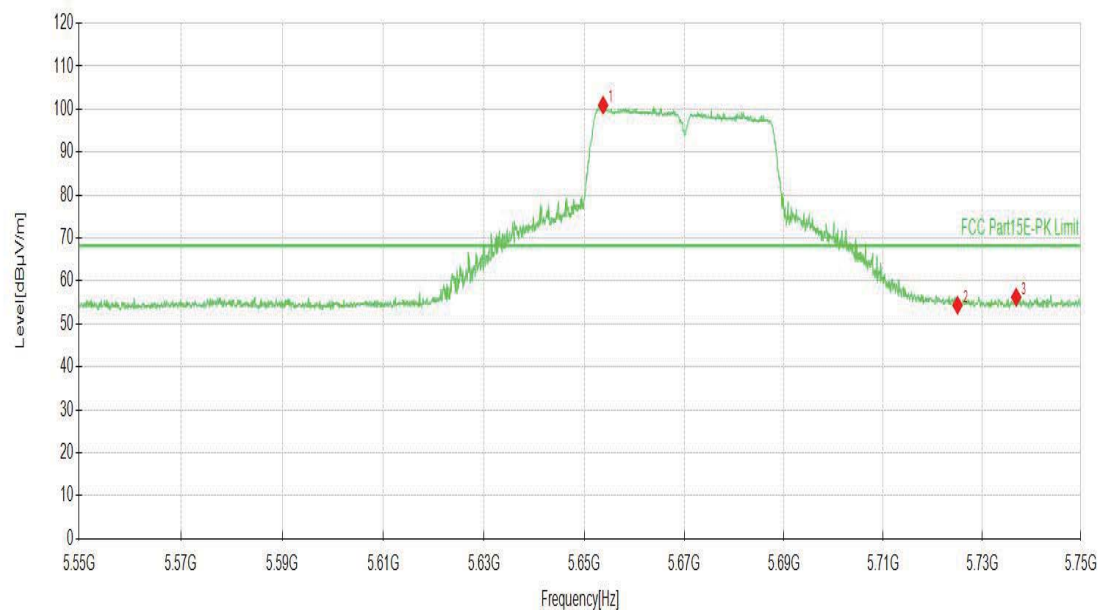
Remark: 1. The emission levels of other frequencies were greater than 20dB margin.
2. Level (dBuV/m) = Reading (dBuV/m) + Factor (dB).
3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
4. Margin(dB) = Limit[dBμV/m] - Level [dBμV/m]



Channel	802.11n40 CH134	Frequency	5670 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	5653.7519	91.92	9.01	100.93	68.20	-32.73	150	338	PK
2	5725.0000	45.48	8.89	54.37	68.20	13.83	150	302	PK
3	5736.8934	47.38	8.86	56.24	68.20	11.96	150	181	PK
4	11339.6940	24.79	14.88	39.67	54.00	14.33	150	10	AV
5	11340.0000	31.53	14.88	46.41	74.00	27.59	150	70	PK
6	17010.0000	20.61	26.15	46.76	68.20	21.44	150	159	PK
7	17010.0000	11.49	26.15	37.64	54.00	16.36	150	195	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]



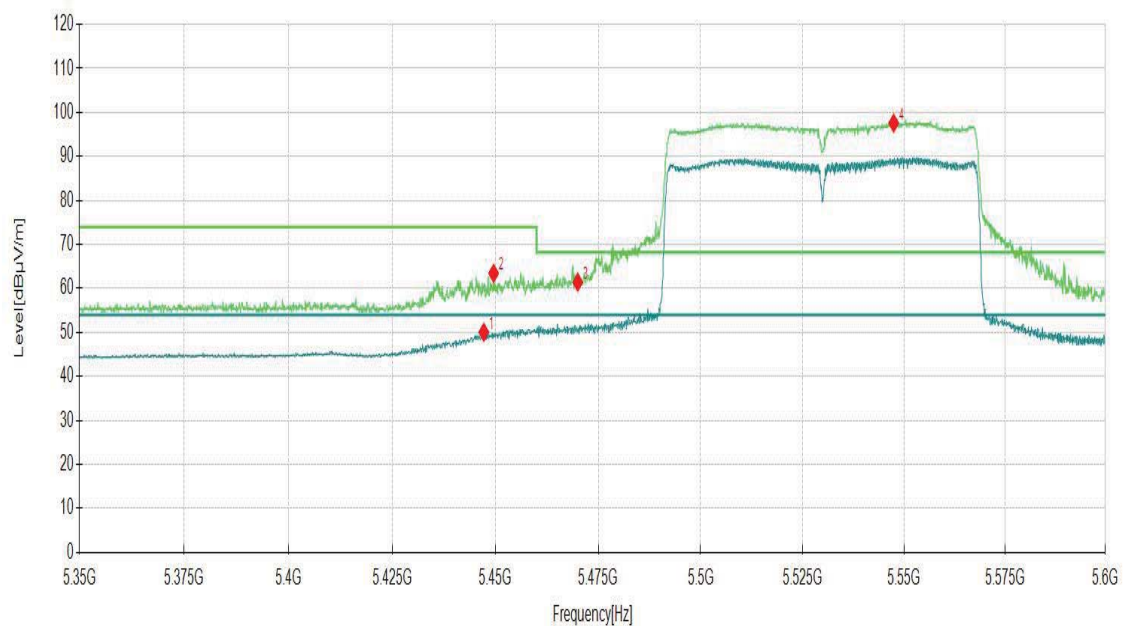
Channel		802.11n40 CH 142			Frequency		5710MHz		
Frequency Range		Above 1G			Detector Function		PK/AV		
Horizontal									
NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector
1	11420.0000	37.49	15.13	52.62	74.00	21.38	150	326	PK
2	11420.0000	30.24	15.13	45.37	54.00	8.63	150	351	AV
3	17130.0000	19.68	26.05	45.73	68.20	22.47	150	86	PK
4	17130.0000	11.96	26.05	38.01	54.00	15.99	150	51	AV
Vertical									
NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Remark
1	11420.0000	34.70	15.13	49.83	74.00	24.17	150	320	PK
2	11420.0000	26.90	15.13	42.03	54.00	11.97	150	320	AV
3	17130.0000	19.65	26.05	45.70	68.20	22.50	150	231	PK
4	17130.0000	13.19	26.05	39.24	54.00	14.76	150	216	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	802.11ac80 CH106	Frequency	5530 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	5447.1736	40.32	9.72	50.04	54.00	3.96	150	170	AV
2	5449.5498	53.73	9.71	63.44	74.00	10.56	150	170	PK
3	5470.0000	51.47	9.94	61.41	68.20	6.79	150	170	PK
4	5547.4737	88.58	8.99	97.57	68.20	-29.37	150	174	PK
6	11060.0000	30.07	15.05	45.12	74.00	28.88	150	2	PK
7	11060.0000	24.01	15.05	39.06	54.00	14.94	150	2	AV
8	16590.0000	20.35	23.82	44.17	68.20	24.03	150	30	PK
9	16590.0000	12.30	23.82	36.12	54.00	17.88	150	0	AV



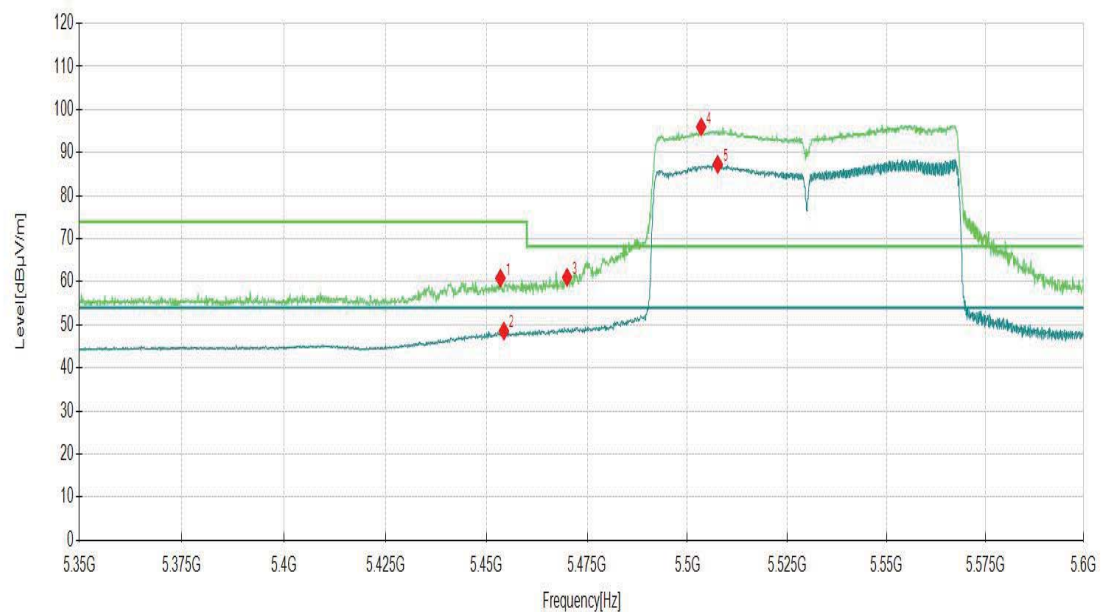
Remark: 1. The emission levels of other frequencies were greater than 20dB margin.
2. Level (dBμV/m) = Reading (dBμV/m) + Factor (dB).
3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
4. Margin(dB) = Limit[dBμV/m] - Level [dBμV/m]



Channel	802.11ac80 CH106	Frequency	5530 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	5453.4267	51.04	9.81	60.85	74.00	13.15	150	2	PK
2	5454.3022	38.75	9.83	48.58	54.00	5.42	150	5	AV
3	5470.0000	51.11	9.94	61.05	68.20	7.15	150	0	PK
4	5503.4517	86.56	9.40	95.96	68.20	-27.76	150	9	PK
6	11060.0000	30.87	15.05	45.92	74.00	28.08	150	6	PK
7	11060.0000	24.45	15.05	39.50	54.00	14.50	150	6	AV
8	16590.0000	20.81	23.82	44.63	68.20	23.57	150	224	PK
9	16590.0000	11.98	23.82	35.80	54.00	18.20	150	329	AV



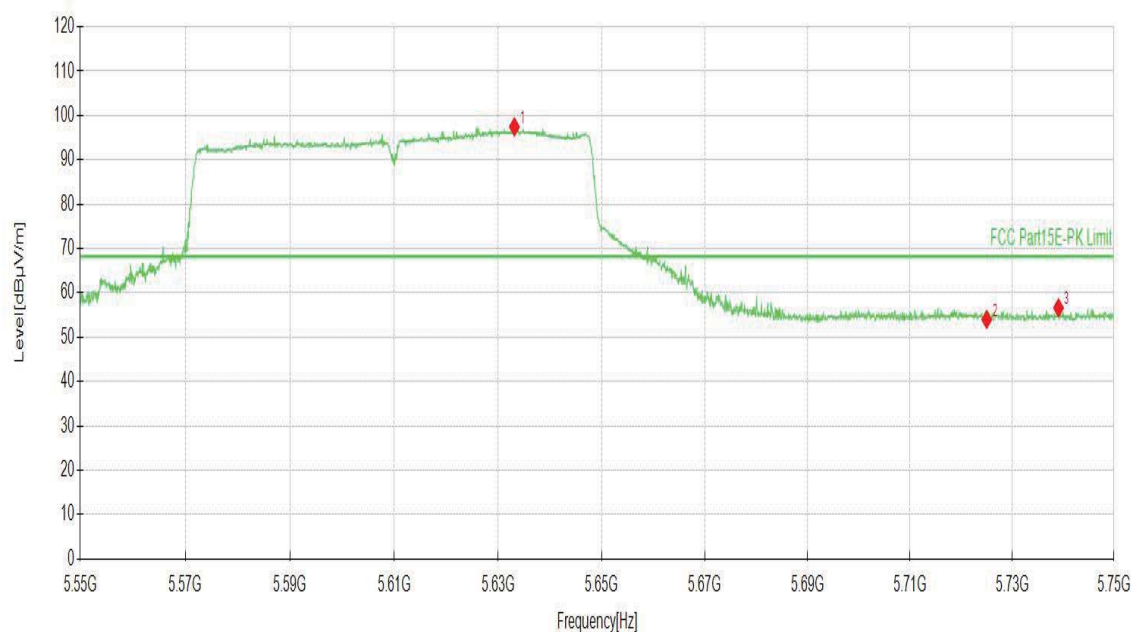
Remark: 1. The emission levels of other frequencies were greater than 20dB margin.
2. Level (dBμV/m) = Reading (dBμV/m) + Factor (dB).
3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
4. Margin(dB) = Limit[dBμV/m] - Level [dBμV/m]



Channel	802.11ac80 CH122	Frequency	5610 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	5633.1416	88.59	8.86	97.45	68.20	-29.25	150	174	PK
2	5725.0000	45.14	8.89	54.03	68.20	14.17	150	110	PK
3	5739.0945	47.71	8.92	56.63	68.20	11.57	150	178	PK
4	11220.0000	30.45	15.03	45.48	74.00	28.52	150	327	PK
5	11220.0000	22.81	15.03	37.84	54.00	16.16	150	2	AV
6	16830.0000	20.99	24.89	45.88	68.20	22.32	150	287	PK
7	16830.0000	11.51	24.89	36.40	54.00	17.60	150	128	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).

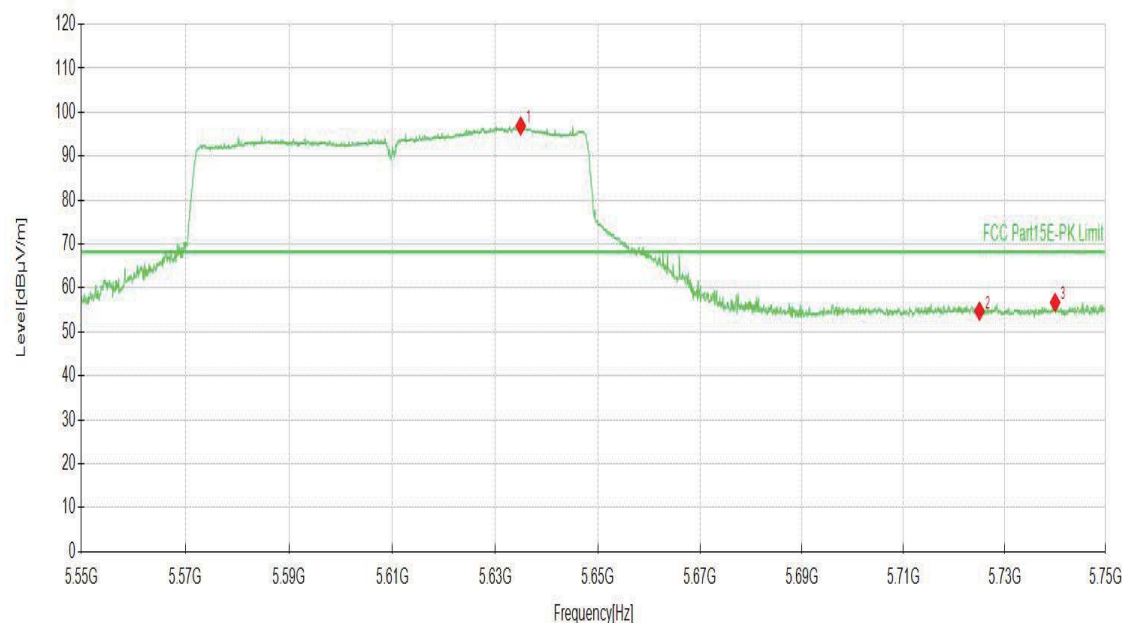
4. Margin(dB) = Limit[dBμV/m] - Level [dBμV/m]



Channel	802.11ac80 CH122	Frequency	5610 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	5634.9425	88.12	8.75	96.87	68.20	-28.67	150	322	PK
2	5725.0000	45.85	8.89	54.74	68.20	13.46	150	334	PK
3	5739.9950	47.77	8.94	56.71	68.20	11.49	150	216	PK
4	11220.0000	30.34	15.03	45.37	74.00	28.63	150	343	PK
5	11220.0000	22.34	15.03	37.37	54.00	16.63	150	343	AV
6	16830.0000	22.76	24.89	47.65	68.20	20.55	150	278	PK
7	16830.0000	11.61	24.89	36.50	54.00	17.50	150	103	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		802.11ac80 CH 138			Frequency		5690MHz		
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	11380.0000	35.05	14.99	50.04	74.00	23.96	150	351	PK
2	11380.0000	26.09	14.99	41.08	54.00	12.92	150	346	AV
3	17070.0000	21.17	26.26	47.43	68.20	20.77	150	96	PK
4	17070.0000	12.47	26.26	38.73	54.00	15.27	150	1	AV
Vertical									
NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Remark
1	11336.1836	36.64	14.87	51.51	74.00	22.49	150	356	PK
2	11380.0000	27.25	14.99	42.24	54.00	11.76	150	356	AV
3	17070.0000	12.94	26.26	39.20	54.00	14.80	150	282	AV
4	17070.0000	20.30	26.26	46.56	68.20	21.64	150	1	PK
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]									



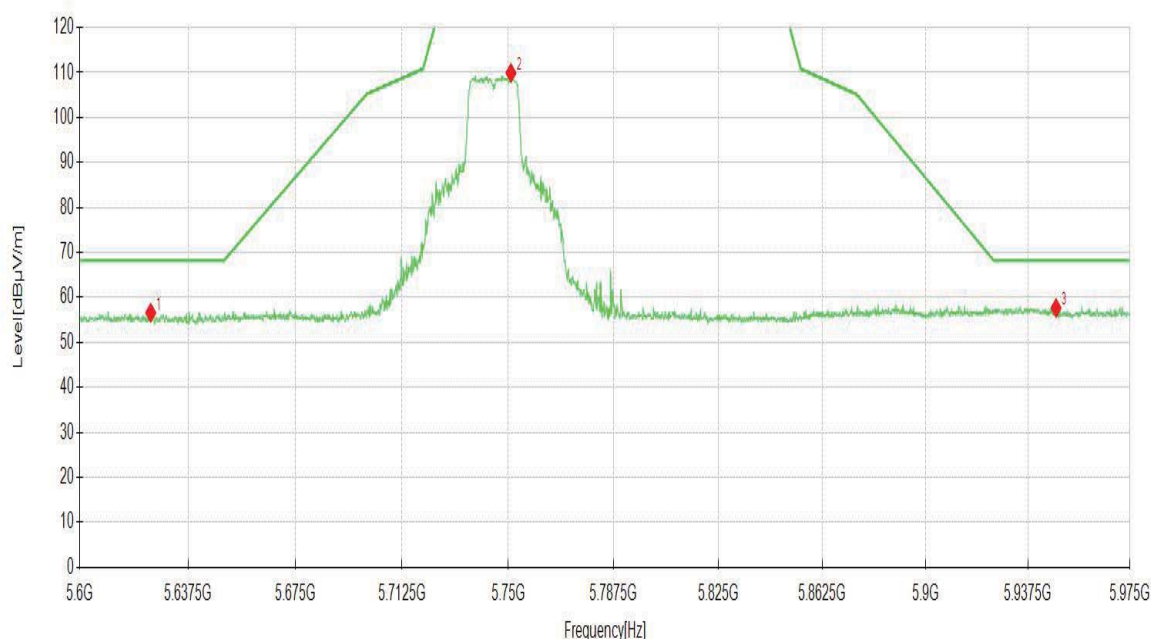
3.1.9 TEST RESULTS - Band 4 (5745-5825MHz):

ABOVE 1GHz DATA

Channel	802.11a CH149	Frequency	5745 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	5624.5748	47.57	9.02	56.59	68.20	11.61	150	307	PK
2	5751.0130	100.92	8.98	109.90	122.20	12.30	150	172	PK
3	5947.7989	47.70	9.95	57.65	68.20	10.55	150	130	PK
4	11490.0000	37.14	15.04	52.18	74.00	21.82	150	340	PK
5	11490.0000	28.38	15.04	43.42	54.00	10.58	150	320	AV
6	17235.0000	20.37	25.53	45.90	68.20	22.30	150	40	PK
7	17235.0000	13.67	25.53	39.20	54.00	14.80	150	290	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).

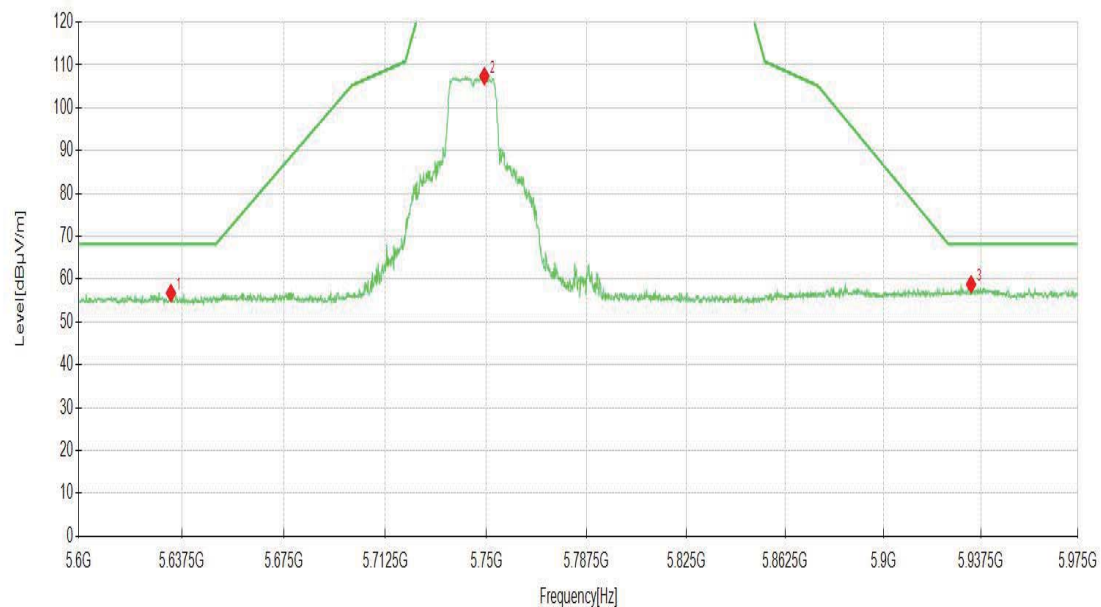
4. Margin(dB) = Limit[dBμV/m] - Level [dBμV/m]



Channel	802.11a CH149	Frequency	5745 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	5633.5793	47.92	8.83	56.75	68.20	11.45	150	110	PK
2	5749.3247	98.46	8.93	107.39	122.20	14.81	150	340	PK
3	5933.7294	48.17	10.62	58.79	68.20	9.41	150	43	PK
4	11490.0000	33.72	15.04	48.76	74.00	25.24	150	307	PK
5	11490.0000	26.76	15.04	41.80	54.00	12.20	150	324	AV
6	17235.0000	21.23	25.53	46.76	68.20	21.44	150	90	PK
7	17235.0000	14.32	25.53	39.85	54.00	14.15	150	90	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 CH 157		Frequency		5785MHz			
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	11570.0000	36.50	15.34	51.84	74.00	22.16	150	336	PK
2	11570.0000	30.03	15.34	45.37	54.00	8.63	150	346	AV
3	17355.0000	19.08	26.30	45.38	68.20	22.82	150	126	PK
4	17355.0000	12.58	26.30	38.88	54.00	15.12	150	323	AV
Vertical									
NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Remark
1	11570.0000	35.39	15.34	50.73	74.00	23.27	150	324	PK
2	11570.0000	26.39	15.34	41.73	54.00	12.27	150	6	AV
3	17355.0000	21.20	26.30	47.50	68.20	20.70	150	230	PK
4	17355.0000	13.22	26.30	39.52	54.00	14.48	150	90	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 CH165	Frequency	5825 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	5626.8259	47.87	9.03	56.90	68.20	11.30	150	167	PK
2	5826.9885	98.74	8.77	107.51	122.20	14.69	150	170	PK
3	5945.3602	47.91	10.22	58.13	68.20	10.07	150	289	PK
4	11650.0000	39.47	15.21	54.68	74.00	19.32	150	340	PK
5	11650.0000	28.28	15.21	43.49	54.00	10.51	150	340	AV
6	17475.0000	19.21	26.05	45.26	68.20	22.94	150	248	PK
7	17475.0000	11.97	26.05	38.02	54.00	15.98	150	248	AV

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

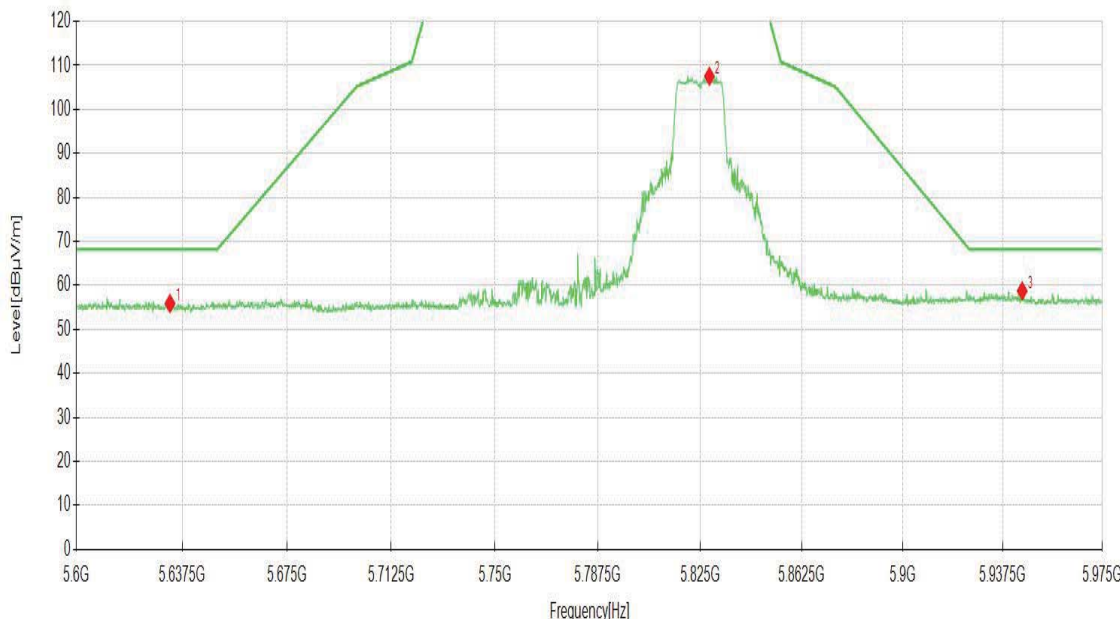
2. Level (dBuV/m) = Reading (dBuV/m) + Factor (dB).

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

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



Channel		802.11a CH165		Frequency		5825 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	5633.2041	47.04	8.85	55.89	68.20	12.31	150	51	PK
2	5828.4892	98.78	8.75	107.53	122.20	14.67	150	1	PK
3	5944.7974	48.46	10.28	58.74	68.20	9.46	150	253	PK
4	11650.0000	32.82	15.21	48.03	74.00	25.97	150	62	PK
5	11650.0000	26.73	15.21	41.94	54.00	12.06	150	348	AV
6	17475.0000	21.44	26.05	47.49	68.20	20.71	150	67	PK
7	17475.0000	12.94	26.05	38.99	54.00	15.01	150	67	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 CH149			Frequency	5745 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	5626.0755	48.28	9.03	57.31	68.20	10.89	150	196	PK
2	5748.5743	100.44	8.93	109.37	122.20	12.83	150	172	PK
3	5942.3587	47.54	10.55	58.09	68.20	10.11	150	8	PK
4	11490.0000	37.48	15.04	52.52	74.00	21.48	150	348	PK
5	11490.0000	31.07	15.04	46.11	54.00	7.89	150	348	AV
6	17235.0000	19.86	25.53	45.39	68.20	22.81	150	26	PK
7	17235.0000	12.55	25.53	38.08	54.00	15.92	150	252	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).

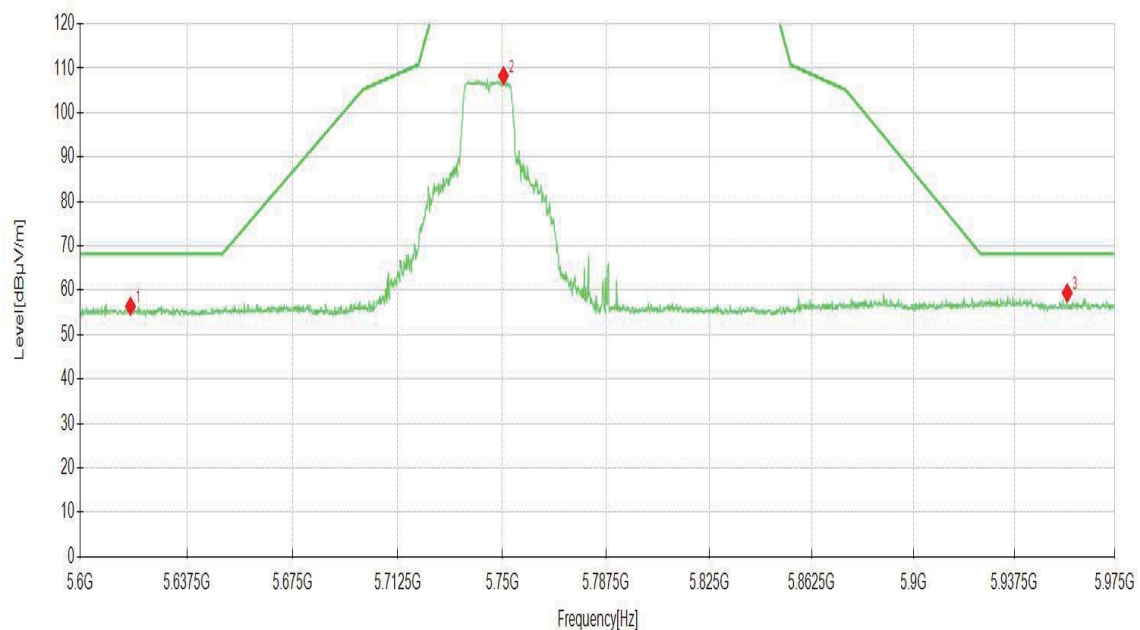
4. Margin(dB) = Limit[dBμV/m] - Level [dBμV/m]



Channel	802.11n20 CH149	Frequency	5745 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	5617.6338	47.39	9.00	56.39	68.20	11.81	150	178	PK
2	5750.4502	99.36	8.95	108.31	122.20	13.89	150	340	PK
3	5957.1786	49.38	10.01	59.39	68.20	8.81	150	246	PK
4	11490.0000	35.48	15.04	50.52	74.00	23.48	150	322	PK
5	11490.0000	29.00	15.04	44.04	54.00	9.96	150	322	AV
6	17235.0000	20.77	25.53	46.30	68.20	21.90	150	312	PK
7	17235.0000	14.37	25.53	39.90	54.00	14.10	150	71	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 CH 157			Frequency		5785MHz		
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	11570.0000	36.14	15.34	51.48	74.00	22.52	150	1	PK
2	11570.0000	30.34	15.34	45.68	54.00	8.32	150	346	AV
3	17355.0000	19.35	26.30	45.65	68.20	22.55	150	322	PK
4	17355.0000	12.59	26.30	38.89	54.00	15.11	150	11	AV
Vertical									
NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Remark
1	11570.0000	32.28	15.34	47.62	74.00	26.38	150	66	PK
2	11570.0000	26.11	15.34	41.45	54.00	12.55	150	6	AV
3	17355.0000	20.43	26.30	46.73	68.20	21.47	150	52	PK
4	17355.0000	13.16	26.30	39.46	54.00	14.54	150	266	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 CH165		Frequency		5825 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	5621.7609	48.00	9.00	57.00	68.20	11.20	150	1	PK
2	5828.1141	98.30	8.75	107.05	122.20	15.15	150	276	PK
3	5941.9835	47.44	10.59	58.03	68.20	10.17	150	152	PK
4	11650.0000	36.68	15.21	51.89	74.00	22.11	150	97	PK
5	11650.0000	27.62	15.21	42.83	54.00	11.17	150	356	AV
6	17475.0000	19.75	26.05	45.80	68.20	22.40	150	1	PK
7	17475.0000	13.02	26.05	39.07	54.00	14.93	150	232	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).

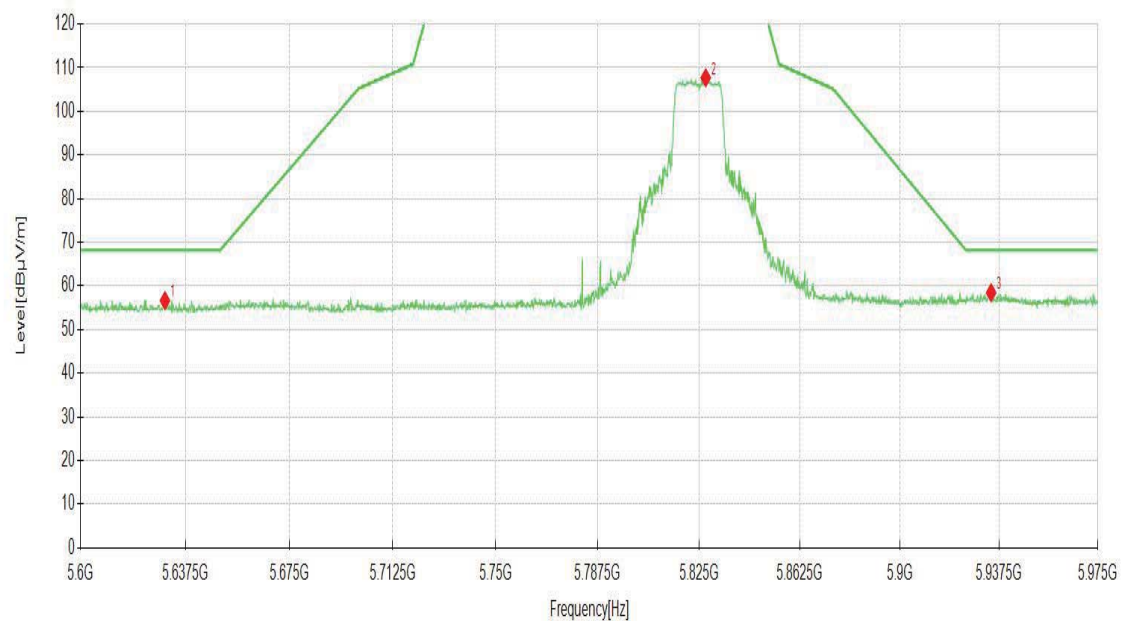
4. Margin(dB) = Limit[dBuV/m] - Level [dBuV/m]



Channel	802.11n20 CH165	Frequency	5825 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	5630.2026	47.59	9.04	56.63	68.20	11.57	150	324	PK
2	5827.5513	98.92	8.76	107.68	122.20	14.52	150	1	PK
3	5934.4797	47.82	10.64	58.46	68.20	9.74	150	357	PK
4	11650.0000	34.16	15.21	49.37	74.00	24.63	150	72	PK
5	11650.0000	28.84	15.21	44.05	54.00	9.95	150	67	AV
6	17475.0000	19.31	26.05	45.36	68.20	22.84	150	321	PK
7	17475.0000	12.77	26.05	38.82	54.00	15.18	150	52	AV



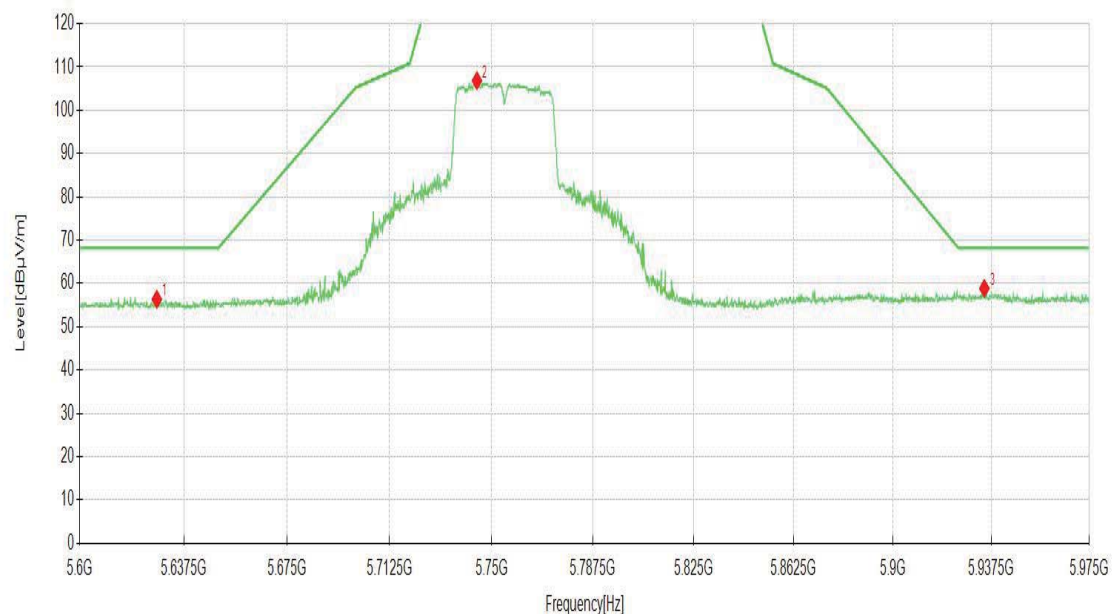
Remark: 1. The emission levels of other frequencies were greater than 20dB margin.
2. Level (dBμV/m) = Reading (dBμV/m) + Factor (dB).
3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
4. Margin(dB) = Limit[dBμV/m] - Level [dBμV/m]



Channel	802.11n40 CH151	Frequency	5755 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	5627.7639	47.29	9.04	56.33	68.20	11.87	150	95	PK
2	5744.6348	97.89	8.94	106.83	122.20	15.37	150	168	PK
3	5934.8549	48.22	10.65	58.87	68.20	9.33	150	23	PK
4	11510.0000	35.00	15.12	50.12	74.00	23.88	150	344	PK
5	11510.0000	28.39	15.12	43.51	54.00	10.49	150	344	AV
6	17265.0000	19.58	25.62	45.20	68.20	23.00	150	30	PK
7	17265.0000	13.44	25.62	39.06	54.00	14.94	150	324	AV



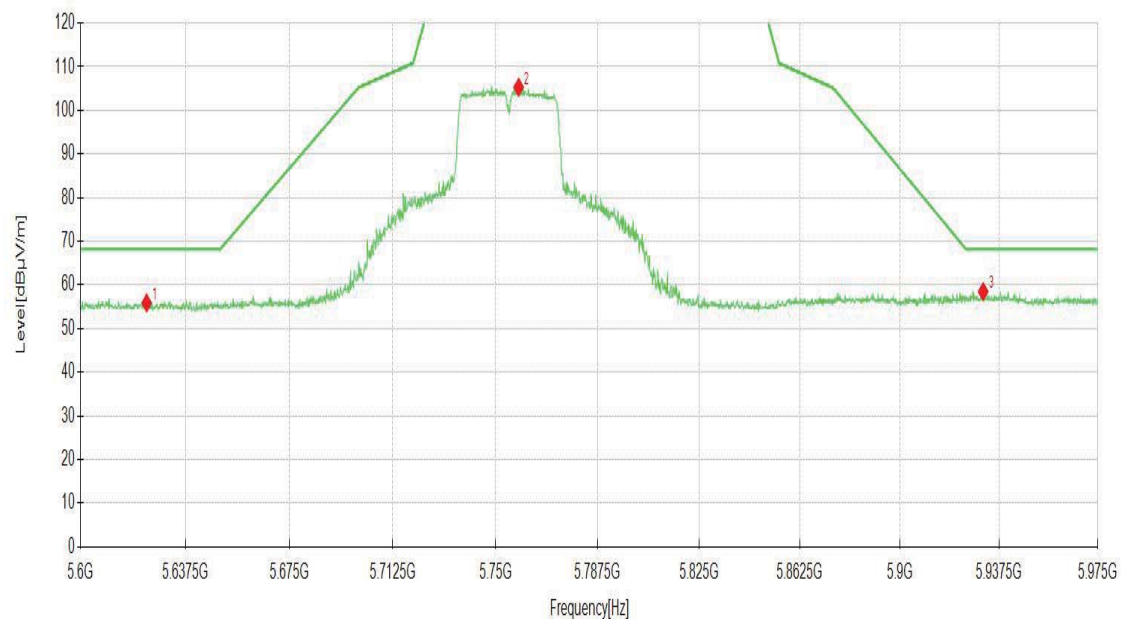
Remark: 1. The emission levels of other frequencies were greater than 20dB margin.
2. Level (dBμV/m) = Reading (dBμV/m) + Factor (dB).
3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
4. Margin(dB) = Limit[dBμV/m] - Level [dBμV/m]



Channel	802.11n40 CH151	Frequency	5755 MHz
Frequency Range	Above 1G	Detector Function	PK/AV

Vertical

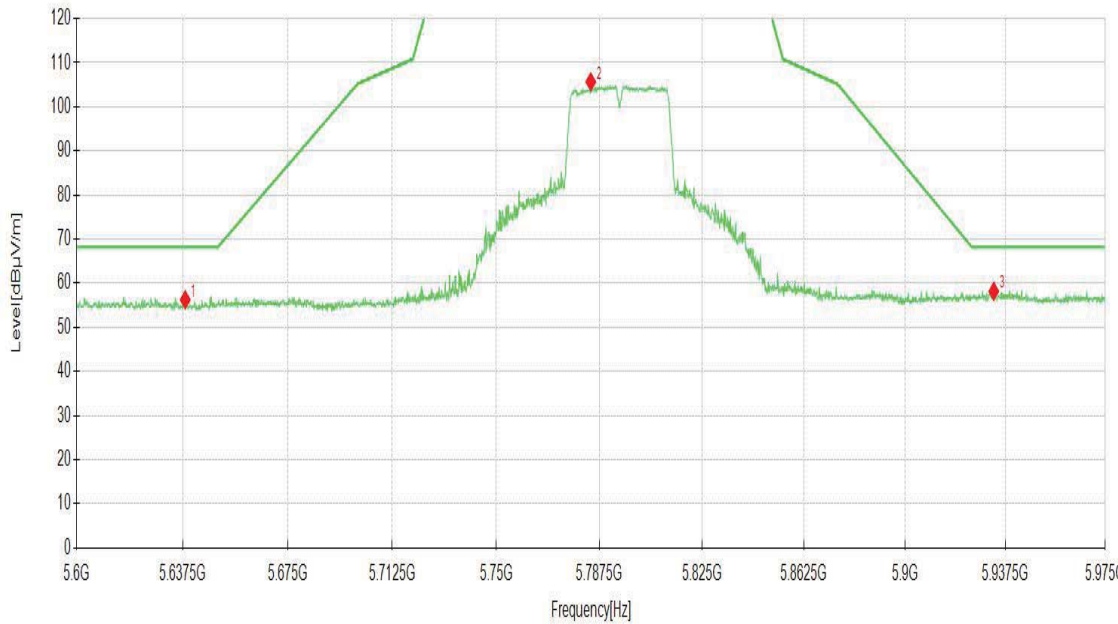
NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector
1	5623.6368	46.86	9.01	55.87	68.20	12.33	150	117	PK
2	5758.5168	95.97	9.30	105.27	122.20	16.93	150	339	PK
3	5931.4782	47.92	10.55	58.47	68.20	9.73	150	226	PK
4	11510.0000	31.23	15.12	46.35	74.00	27.65	150	348	PK
5	11510.0000	23.61	15.12	38.73	54.00	15.27	150	318	AV
6	17265.0000	19.42	25.62	45.04	68.20	23.16	150	148	PK
7	17265.0000	13.14	25.62	38.76	54.00	15.24	150	132	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 CH159		Frequency	5795 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	5638.4567	47.73	8.53	56.26	68.20	11.94	150	102	PK
2	5784.4047	97.30	8.35	105.65	122.20	16.55	150	169	PK
3	5933.1666	47.56	10.60	58.16	68.20	10.04	150	350	PK
4	11590.0000	34.92	15.17	50.09	74.00	23.91	150	341	PK
5	11590.0000	29.89	15.17	45.06	54.00	8.94	150	341	AV
6	17385.0000	20.14	26.14	46.28	68.20	21.92	150	76	PK
7	17385.0000	12.58	26.14	38.72	54.00	15.28	150	356	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).

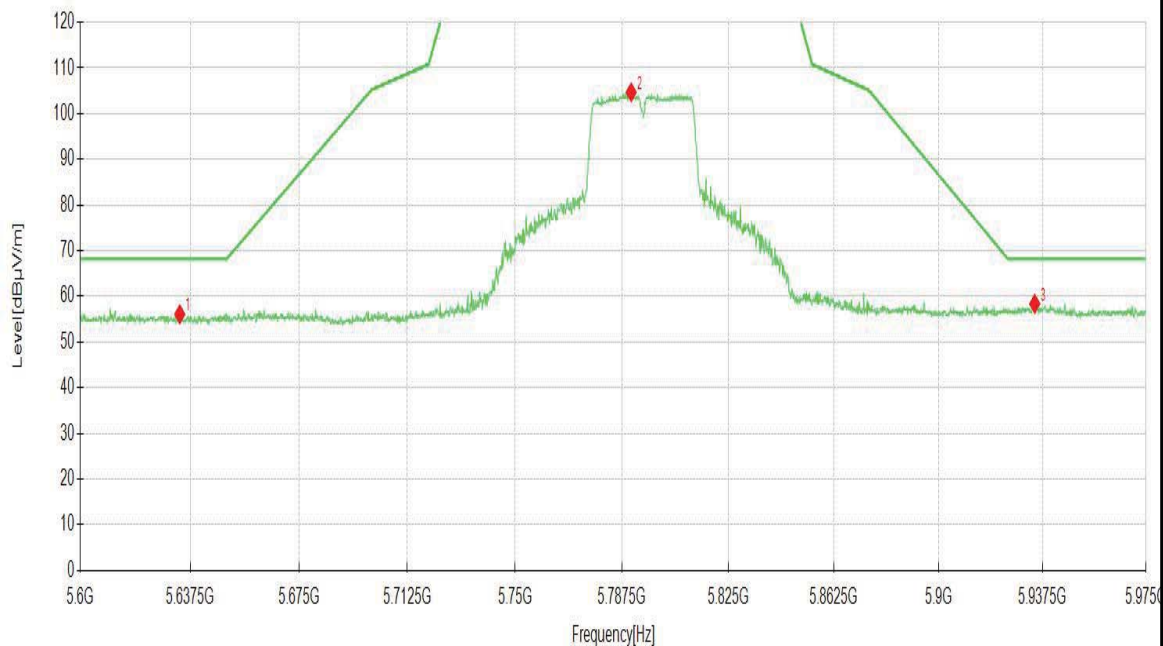
4. Margin(dB) = Limit[dBμV/m] - Level [dBμV/m]



Channel	802.11n40 CH159	Frequency	5795 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	5633.9545	47.28	8.81	56.09	68.20	12.11	150	251	PK
2	5790.7829	96.06	8.61	104.67	122.20	17.53	150	355	PK
3	5934.6673	47.74	10.64	58.38	68.20	9.82	150	352	PK
4	11590.0000	31.26	15.17	46.43	74.00	27.57	150	316	PK
5	11590.0000	25.57	15.17	40.74	54.00	13.26	150	7	AV
6	17385.0000	21.11	26.14	47.25	68.20	20.95	150	92	PK
7	17385.0000	13.21	26.14	39.35	54.00	14.65	150	92	AV



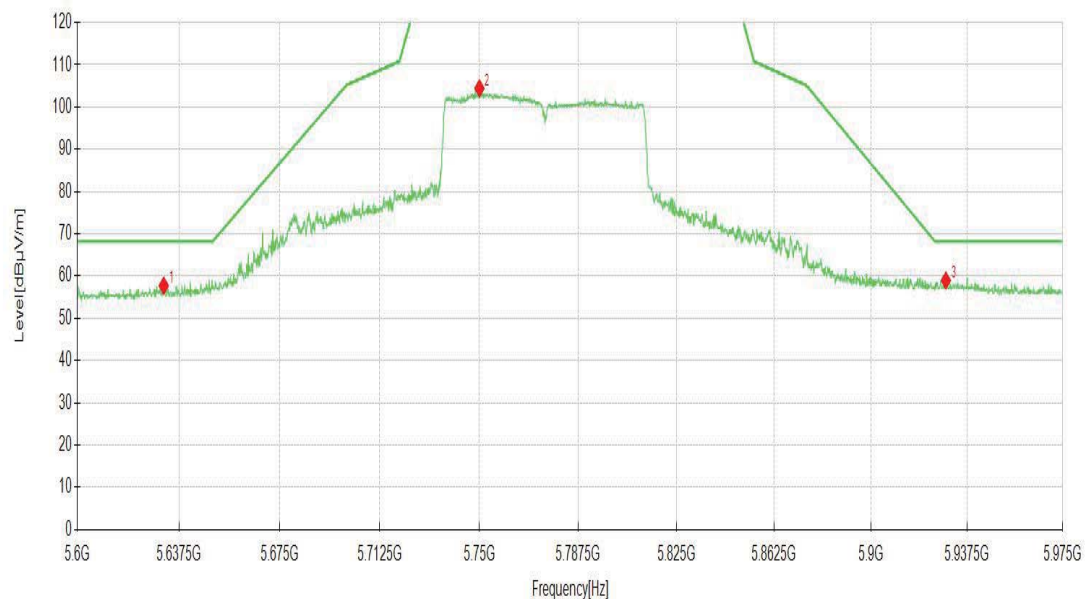
Remark: 1. The emission levels of other frequencies were greater than 20dB margin.
2. Level (dBμV/m) = Reading (dBμV/m) + Factor (dB).
3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
4. Margin(dB) = Limit[dBμV/m] - Level [dBμV/m]



Channel	802.11ac80 CH155	Frequency	5775 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	5631.8909	48.77	8.93	57.70	68.20	10.50	150	167	PK
2	5750.0750	95.49	8.94	104.43	122.20	17.77	150	171	PK
3	5929.2271	48.46	10.48	58.94	68.20	9.26	150	276	PK
4	11550.0000	32.07	15.40	47.47	74.00	26.53	150	351	PK
5	11550.0000	26.88	15.40	42.28	54.00	11.72	150	351	AV
6	17325.0000	19.09	26.20	45.29	68.20	22.91	150	101	PK
7	17325.0000	11.67	26.20	37.87	54.00	16.13	150	241	AV



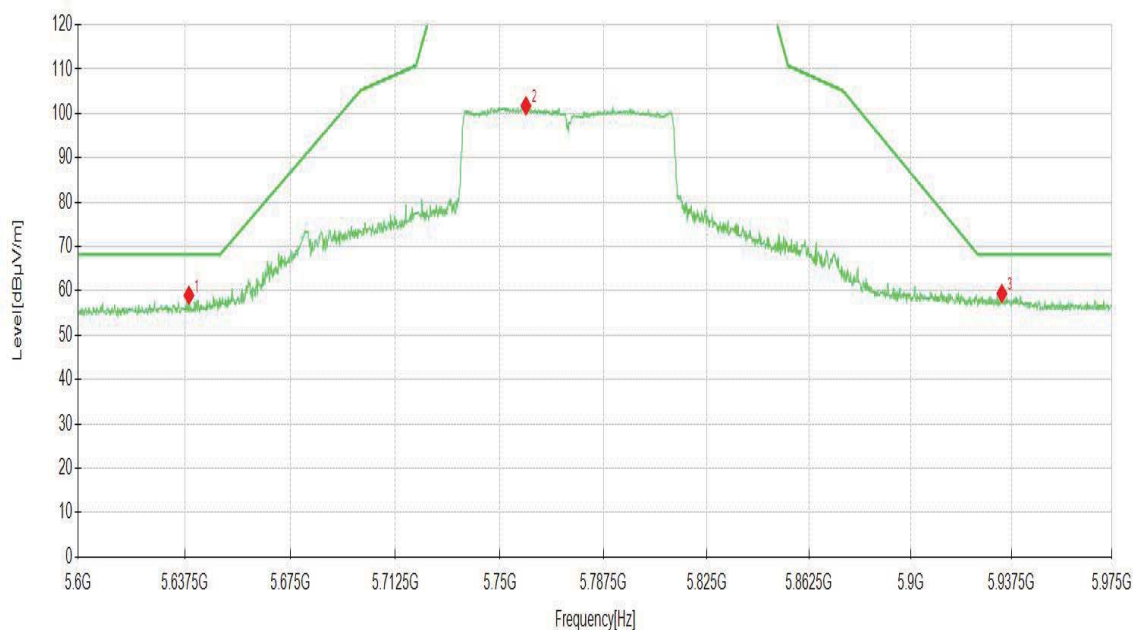
Remark: 1. The emission levels of other frequencies were greater than 20dB margin.
2. Level (dBμV/m) = Reading (dBμV/m) + Factor (dB).
3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
4. Margin(dB) = Limit[dBμV/m] - Level [dBμV/m]



Channel	802.11ac80 CH155	Frequency	5775 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	5639.0195	50.52	8.49	59.01	68.20	9.19	150	338	PK
2	5759.4547	92.40	9.34	101.74	122.20	20.46	150	359	PK
3	5933.9170	48.77	10.62	59.39	68.20	8.81	150	3	PK
4	11550.0000	30.13	15.40	45.53	74.00	28.47	150	67	PK
5	11550.0000	23.33	15.40	38.73	54.00	15.27	150	326	AV
6	17325.0000	20.99	26.20	47.19	68.20	21.01	150	166	PK
7	17325.0000	12.50	26.20	38.70	54.00	15.30	150	291	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]

3.2 CONDUCTED EMISSION MEASUREMENT

3.2.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

FREQUENCY OF EMISSION (MHz)	CONDUCTED LIMIT (dB μ V)	
	Quasi-peak	Average
0.15 ~ 0.5	66 to 56	56 to 46
0.5 ~ 5	56	46
5 ~ 30	60	50

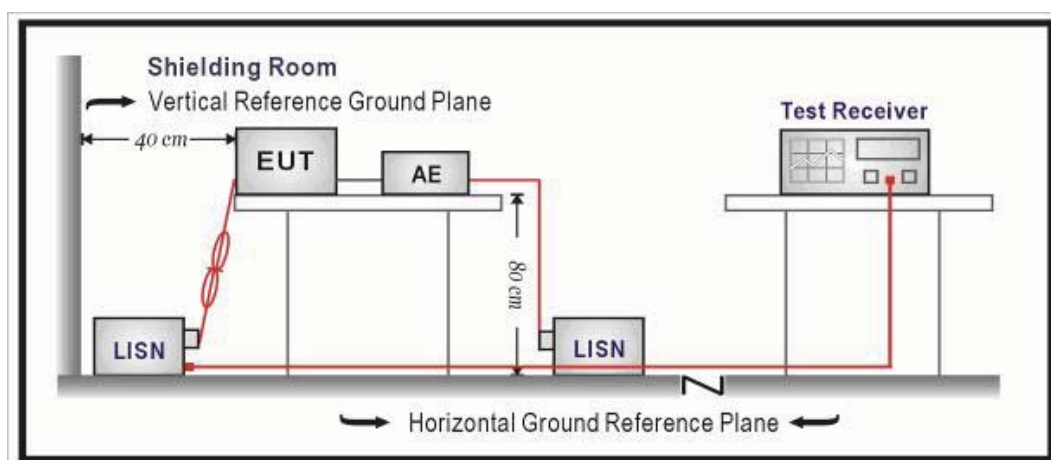
- NOTE:** 1. The lower limit shall apply at the transition frequencies.
 2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.
 3. All emanations from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

3.2.2 TEST PROCEDURES

- The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.
- Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- The frequency range from 150kHz to 30MHz was searched. Emission levels under (Limit - 20dB) were not recorded.

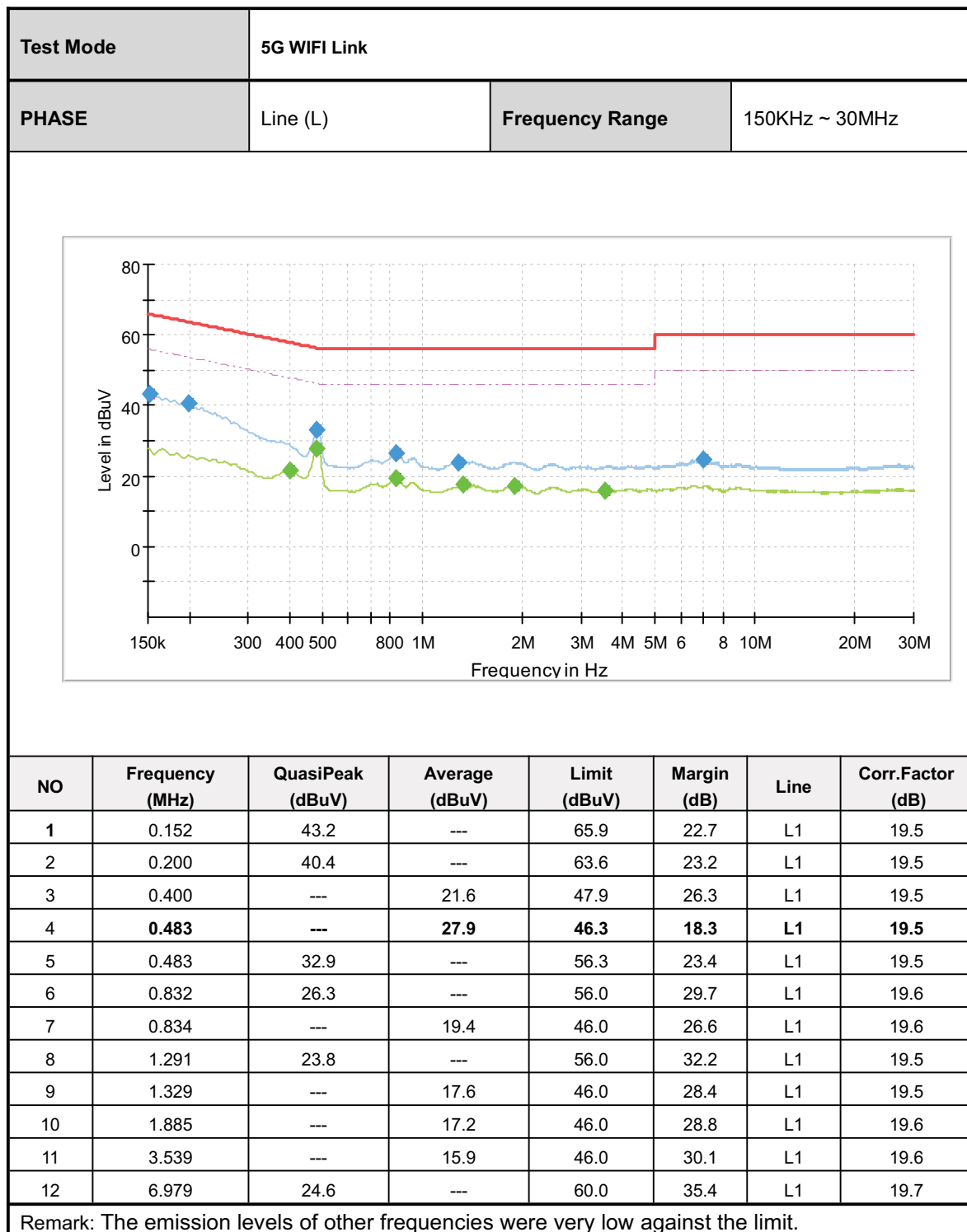
NOTE: All modes of operation were investigated and the worst-case emissions are reported.

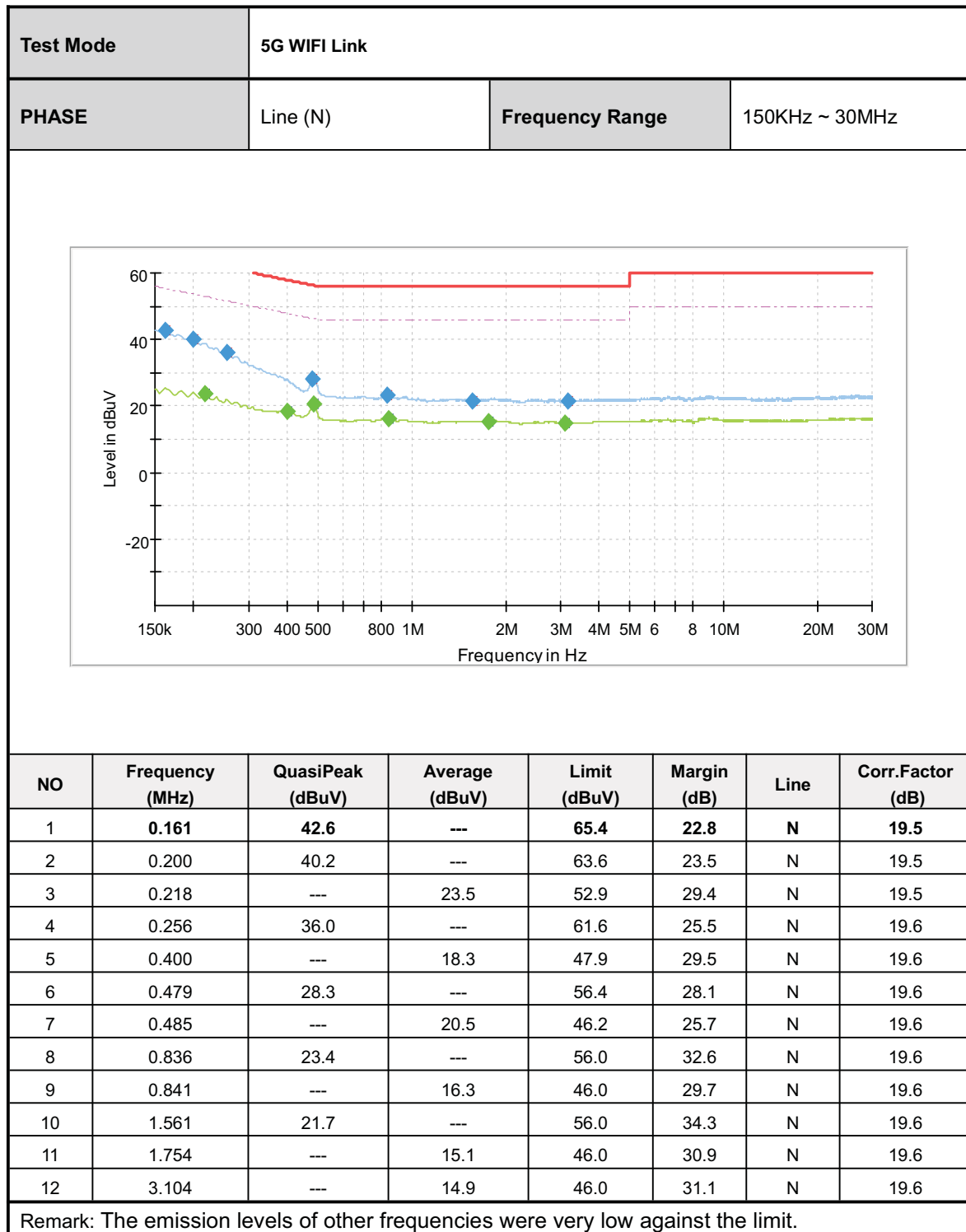
3.2.3 TEST SETUP



NOTE: For the actual test configuration, please refer to the attached file (Test Setup Photo).

3.2.4 TEST RESULTS





3.3 26DB EMISSION BANDWIDTH

3.3.1 LIMITS OF 26DB EMISSION BANDWIDTH

This section is for reporting purpose only, there is on restriction limit of bandwidth

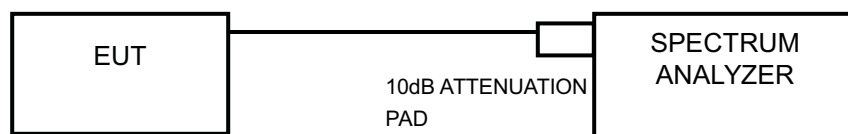
3.3.2 TEST PROCEDURES

FOR 26dB BANDWIDTH

- 1) Set RBW = approximately 1% of the emission bandwidth.
- 2) Set the VBW > RBW.
- 3) Detector = Peak
- 4) Trace mode = max hold.
- 5) Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

3.3.3 TEST SETUP

FOR 26dB BANDWIDTH



3.3.4 TEST RESULTS

Refer to Appendix A

3.4 6DB EMISSION BANDWIDTH

3.4.1 LIMITS OF 6DB EMISSION BANDWIDTH

The minimum of 6dB Bandwidth Measurement is 0.5MHz.

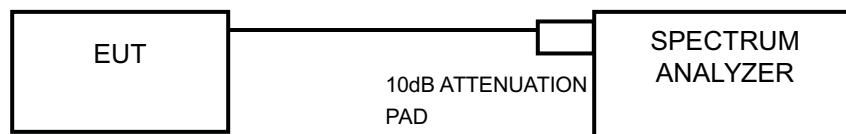
3.4.2 TEST PROCEDURES

FOR 6dB BANDWIDTH

- 1) Set RBW = 100 kHz.
- 2) Set the video bandwidth (VBW) ≥ 3 RBW.
- 3) Detector = Peak.
- 4) Trace mode = max hold.
- 5) Sweep = auto couple.
- 6) Allow the trace to stabilize.
- 7) 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 6 dB relative to the maximum level measured in the fundamental emission.

3.4.3 TEST SETUP

FOR 6dB BANDWIDTH



3.4.4 TEST RESULTS

Refer to Appendix B



3.5 TRANSMIT POWER MEASUREMENT

3.5.1 LIMITS OF TRANSMIT POWER MEASUREMENT(FCC)

Operation Band	EUT Category		LIMIT
U-NII-1		Outdoor Access Point	1 Watt (30 dBm) (Max. e.i.r.p $\leq$ 125mW(21 dBm) at any elevation angle above 30 degrees as measured from the horizon)
		Fixed point-to-point Access Point	1 Watt (30 dBm)
		Indoor Access Point	1 Watt (30 dBm)
	√	Mobile and Portable client device	250mW (24 dBm)
U-NII-2A	√		250mW(24dBm) or 11 dBm+10LogB*
U-NII-2C	√		250mW(24dBm) or 11 dBm+10LogB*
U-NII-3	√		1 Watt (30 dBm)

NOTE: 1. Where B is the 26dB emission bandwidth in MHz.

Directional gain and the maximum output power limit:

Operation Band	Chain 0 Antenna Gain(dBi)	Chain 1 Antenna Gain(dBi)	DG For Power (dBi)	Power Limit Reduction
U-NII-1	5.3	5.3	8.31	2.31
U-NII-2A	4.4	4.4	7.41	1.41
U-NII-2C	3.0	3.0	6	0
U-NII-3	3.2	3.2	6.21	0.21

MIMO mode:

FCC KDB 662911 D01 Multiple Transmitter Output V02r01

For CDD transmissions, directional gain is calculated as

Directional Gain= GANT+ Array Gain, where Array Gain is as follows.

For power spectral density(PSD) measurements on all devices.

Array Gain=10 log($N_{ANT}/N_{SS}=1$)

For power measurements on IEEE802.11 devices,

Array Gain=0 dB (i.e, no array gain) for $N_{ANT} \leq 4$.

The EUT support CDD mode, for Power and PSD, the directional gain is following F2)f)i)

The directional gain "DG" is calculated as following table.



3.5.2 LIMITS OF TRANSMIT POWER MEASUREMENT(IC)

FREQUENCY BAND	LIMIT
5.150 ~ 5.250GHz	EIRP shall not exceed 200mW or $10 + 10\log B$, dBm
5.250 ~ 5.350GHz 5.470 ~ 5.600GHz 5.650 ~ 5.725GHz	Conducted output power shall not exceed 250mW or $11 + 10\log B$, dBm EIRP shall not exceed 1.0W or $17 + 10\log B$, dBm
5.725 ~ 5.825GHz	Conducted output power shall not exceed 1 W.

NOTE: Where B is the 99% emission bandwidth in MHz

Directional gain and the maximum output power limit:

Operation Band	Chain 0 Antenna Gain(dBi)	Chain 1 Antenna Gain(dBi)	DG For Power (dBi)	Power Limit Reduction
U-NII-1	5.3	5.3	8.31	2.31
U-NII-2A	4.4	4.4	7.41	1.41
U-NII-2C	3.0	3.0	6	0
U-NII-3	3.2	3.2	6.21	0.21

MIMO mode:

FCC KDB 662911 D01 Multiple Transmitter Output V02r01

For CDD transmissions, directional gain is calculated as

Directional Gain = GANT + Array Gain, where Array Gain is as follows.

For power spectral density (PSD) measurements on all devices.

Array Gain = $10 \log(N_{ANT}/N_{SS}=1)$

For power measurements on IEEE802.11 devices,

Array Gain = 0 dB (i.e., no array gain) for $N_{ANT} \leq 4$.

The EUT supports CDD mode, for Power and PSD, the directional gain is following F2)f)i)

The directional gain "DG" is calculated as following table.

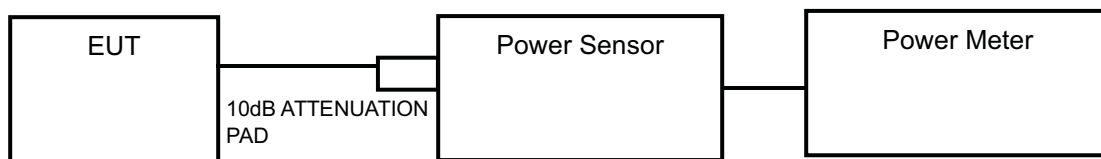


3.5.3 TEST PROCEDURES

FOR AVERAGE POWER MEASUREMENT

Method PM is used to perform output power measurement, trigger and gating function of wide band power meter is enabled to measure max output power of TX on burst. Duty factor is not added to measured value.

3.5.4 TEST SETUP



3.5.5 TEST RESULTS

Refer to Appendix D



3.6 POWER SPECTRAL DENSITY MEASUREMENT

3.6.1 LIMITS OF PEAK POWER SPECTRAL DENSITY MEASUREMENT(FCC)

Operation Band	EUT Category		LIMIT
U-NII-1		Outdoor Access Point	17dBm/ MHz
		Fixed point-to-point Access Point	
		Indoor Access Point	
	√	Mobile and Portable client device	11dBm/ MHz
U-NII-2A	√		11dBm/ MHz
U-NII-2C	√		11dBm/ MHz
U-NII-3	√		30dBm/ 500kHz

Note:

Directional gain and the maximum output power limit:

Operation Band	Chain 0 Antenna Gain(dBi)	Chain 1 Antenna Gain(dBi)	DG For Power (dBi)	Power Limit Reduction
U-NII-1	5.3	5.3	8.31	2.31
U-NII-2A	4.4	4.4	7.41	1.41
U-NII-2C	3.0	3.0	6	0
U-NII-3	3.2	3.2	6.21	0.21

MIMO mode:

FCC KDB 662911 D01 Multiple Transmitter Output V02r01

For CDD transmissions, directional gain is calculated as

Directional Gain= GANT+ Array Gain, where Array Gain is as follows.

For power spectral density(PSD) measurements on all devices.

Array Gain=10 log($N_{ANT}/N_{SS}=1$)

For power measurements on IEEE802.11 devices,

Array Gain=0 dB (i.e, no array gain) for $N_{ANT} \leq 4$.

The directional gain "DG" is calculated as following table.



3.6.2 . LIMITS OF PEAK POWER SPECTRAL DENSITY MEASUREMENT(IC)

FREQUENCY BAND	LIMIT(dBm)
5.15 ~ 5.25GHz	EIRP spectral density shall not exceed 10 dBm in any 1.0 MHz band.
5.25 ~ 5.35GHz and 5.470 ~ 5.725GHz	Power spectral density shall not exceed 11 dBm in any 1.0 MHz band.
5.725~5825GHz	Power spectral density shall not exceed 30 dBm in any 500 kHz band.

Note:

Directional gain and the maximum output power limit:

Operation Band	Chain 0 Antenna Gain(dBi)	Chain 1 Antenna Gain(dBi)	DG For Power (dBi)	Power Limit Reduction
U-NII-1	5.3	5.3	8.31	2.31
U-NII-2A	4.4	4.4	7.41	1.41
U-NII-2C	3.0	3.0	6	0
U-NII-3	3.2	3.2	6.21	0.21

MIMO mode:

FCC KDB 662911 D01 Multiple Transmitter Output V02r01

For CDD transmissions, directional gain is calculated as

Directional Gain= GANT+ Array Gain, where Array Gain is as follows.

For power spectral density(PSD) measurements on all devices.

Array Gain=10 log($N_{ANT}/N_{SS}=1$)

For power measurements on IEEE802.11 devices,

Array Gain=0 dB (i.e, no array gain) for $N_{ANT} \leq 4$.

The directional gain "DG" is calculated as following table.

3.6.3 TEST PROCEDURE

For U-NII-1, U-NII-2A, U-NII-2C band:

Using method SA-2

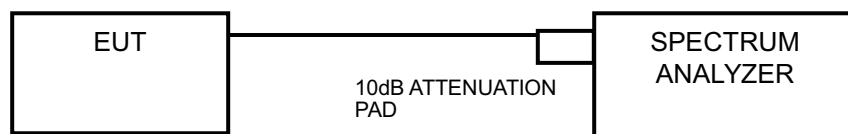
- 1) Set span to encompass the entire emission bandwidth (EBW) of the signal.
- 2) Set RBW = 1MHz, Set VBW = 3 MHz, Detector = AV
- 3) Set Channel power measure = 1MHz
- 4) Sweep time = auto, trigger set to "free run".
- 5) Trace average at least 100 traces in power averaging mode.
- 6) Record the max value and add 10 log (1/duty cycle)

For U-NII-3 band:

Using method SA-2

- 1) Set span to encompass the entire emission bandwidth (EBW) of the signal.
- 2) Set RBW = 300 kHz, Set VBW = 1 MHz, Detector = AV
- 3) Set Channel power measure = 1MHz
- 4) Sweep time = auto, trigger set to "free run".
- 5) Trace average at least 100 traces in power averaging mode.
- 6) Record the max value and add 10 log (1/duty cycle)

3.6.4 TEST SETUP



3.6.5 TEST RESULT

Refer to Appendix E

3.7 FREQUENCY STABILITY

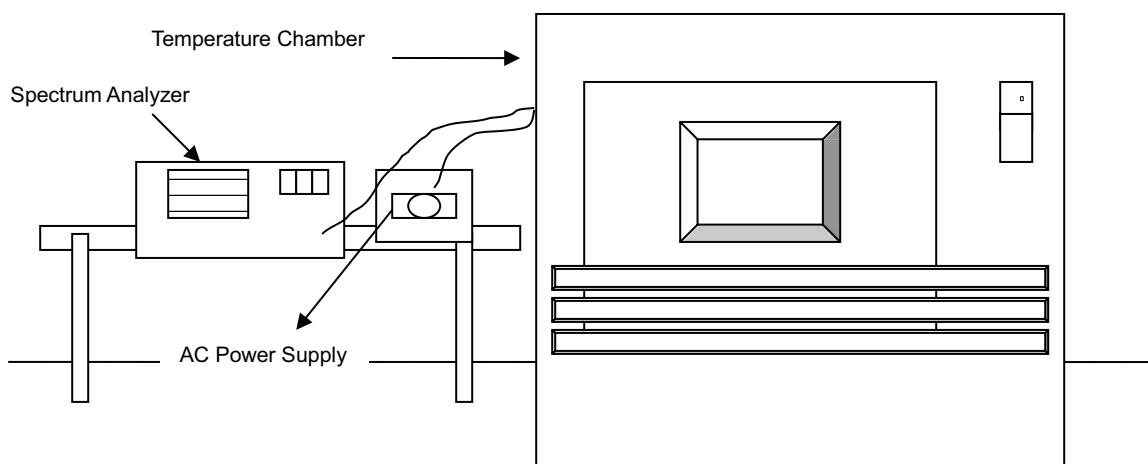
3.7.1 LIMITS OF FREQUENCY STABILITY

The frequency of the carrier signal shall be maintained within band of operation.

3.7.2 TEST PROCEDURES

- The EUT was placed inside the environmental test chamber and powered by nominal AC voltage.
- Turn the EUT on and couple its output to a spectrum analyzer.
- Turn the EUT off and set the chamber to the highest temperature specified.
- Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize, turn the EUT on and measure the operating frequency after 2, 5, and 10 minutes.
- Repeat step 2 and 3 with the temperature chamber set to the lowest temperature.
- The test chamber was allowed to stabilize at +20 degree C for a minimum of 30 minutes. The supply voltage was then adjusted on the EUT from 85% to 115% and the frequency record.

3.7.3 TEST SETUP





3.7.4 TEST RESULTS

Refer to Appendix F



4 PHOTOGRAPHS OF TEST SETUP

Please refer to the attached file (Test Setup Photo).



5 Appendix

5.1 Appendix A: 26DB EMISSION BANDWIDTH

5.1.1 Test Result

TestMode	Antenna	Frequency[MHz]	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	26.36	5167.72	5194.08	---	---
	Ant2	5180	27.64	5165.52	5193.16	---	---
	Ant1	5200	28.68	5184.84	5213.52	---	---
	Ant2	5200	29.40	5184.76	5214.16	---	---
	Ant1	5240	28.24	5224.92	5253.16	---	---
	Ant2	5240	27.84	5225.72	5253.56	---	---
	Ant1	5260	29.32	5245.40	5274.72	---	---
	Ant2	5260	28.72	5245.52	5274.24	---	---
	Ant1	5280	28.04	5265.52	5293.56	---	---
	Ant2	5280	26.56	5265.96	5292.52	---	---
	Ant1	5320	26.96	5305.52	5332.48	---	---
	Ant2	5320	28.76	5305.44	5334.20	---	---
	Ant1	5500	29.48	5484.64	5514.12	---	---
	Ant2	5500	26.96	5487.20	5514.16	---	---
	Ant1	5580	29.04	5565.08	5594.12	---	---
	Ant2	5580	29.16	5564.60	5593.76	---	---
	Ant1	5700	27.96	5685.52	5713.48	---	---
	Ant2	5700	27.08	5685.52	5712.60	---	---
	Ant1	5720	27.68	5704.92	5732.60	---	---
	Ant2	5720	27.72	5705.72	5733.44	---	---
	Ant1	5720_UNII-2C	20.08	5704.92	5725	---	---
	Ant2	5720_UNII-2C	19.28	5705.72	5725	---	---
	Ant1	5720_UNII-3	7.6	5725	5732.60	---	---
	Ant2	5720_UNII-3	8.44	5725	5733.44	---	---
	Ant1	5745	27.96	5731.20	5759.16	---	---
	Ant2	5745	27.32	5731.80	5759.12	---	---
	Ant1	5785	28.92	5770.16	5799.08	---	---
	Ant2	5785	26.72	5770.84	5797.56	---	---
	Ant1	5825	28.32	5810.00	5838.32	---	---
	Ant2	5825	28.52	5810.56	5839.08	---	---
11N20MIMO	Ant1	5180	28.52	5167.04	5195.56	---	---
	Ant2	5180	29.72	5165.72	5195.44	---	---
	Ant1	5200	31.32	5185.24	5216.56	---	---
	Ant2	5200	29.84	5184.64	5214.48	---	---
	Ant1	5240	29.40	5225.56	5254.96	---	---
	Ant2	5240	27.52	5225.96	5253.48	---	---
	Ant1	5260	29.36	5245.68	5275.04	---	---
	Ant2	5260	29.20	5245.72	5274.92	---	---
	Ant1	5280	28.12	5265.84	5293.96	---	---
	Ant2	5280	26.52	5266.16	5292.68	---	---
	Ant1	5320	28.28	5306.16	5334.44	---	---
	Ant2	5320	28.96	5306.16	5335.12	---	---
	Ant1	5500	28.92	5486.48	5515.40	---	---
	Ant2	5500	28.56	5486.40	5514.96	---	---
	Ant1	5580	30.16	5565.52	5595.68	---	---
	Ant2	5580	30.52	5565.16	5595.68	---	---
	Ant1	5700	28.40	5686.40	5714.80	---	---

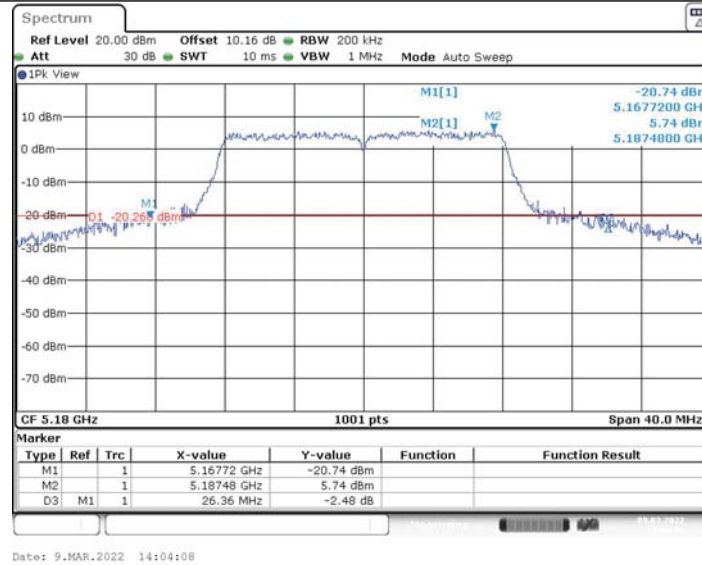


	Ant2	5700	29.72	5684.00	5713.72	---	---
	Ant1	5720	29.96	5705.40	5735.36	---	---
	Ant2	5720	29.96	5705.20	5735.16	---	---
	Ant1	5720_UNII-2C	19.6	5705.40	5725	---	---
	Ant2	5720_UNII-2C	19.8	5705.20	5725	---	---
	Ant1	5720_UNII-3	10.36	5725	5735.36	---	---
	Ant2	5720_UNII-3	10.16	5725	5735.16	---	---
	Ant1	5745	26.80	5731.44	5758.24	---	---
	Ant2	5745	26.68	5732.04	5758.72	---	---
	Ant1	5785	29.00	5771.40	5800.40	---	---
	Ant2	5785	28.24	5770.80	5799.04	---	---
	Ant1	5825	30.72	5808.96	5839.68	---	---
	Ant2	5825	27.76	5810.80	5838.56	---	---
11N40MIMO	Ant1	5190	60.24	5158.56	5218.80	---	---
	Ant2	5190	54.08	5164.40	5218.48	---	---
	Ant1	5230	59.68	5201.28	5260.96	---	---
	Ant2	5230	53.92	5196.40	5250.32	---	---
	Ant1	5270	57.44	5242.00	5299.44	---	---
	Ant2	5270	50.24	5240.24	5290.48	---	---
	Ant1	5310	58.72	5278.32	5337.04	---	---
	Ant2	5310	49.92	5289.12	5339.04	---	---
	Ant1	5510	60.96	5476.00	5536.96	---	---
	Ant2	5510	48.64	5490.16	5538.80	---	---
	Ant1	5550	60.56	5520.40	5580.96	---	---
	Ant2	5550	49.60	5520.24	5569.84	---	---
	Ant1	5670	60.24	5640.40	5700.64	---	---
	Ant2	5670	50.80	5650.48	5701.28	---	---
	Ant1	5710	58.64	5682.08	5740.72	---	---
	Ant2	5710	47.36	5681.84	5729.20	---	---
	Ant1	5710_UNII-2C	42.92	5682.08	5725	---	---
	Ant2	5710_UNII-2C	43.16	5681.84	5725	---	---
	Ant1	5710_UNII-3	15.72	5725	5740.72	---	---
	Ant2	5710_UNII-3	4.2	5725	5729.20	---	---
	Ant1	5755	60.16	5725.80	5785.96	---	---
	Ant2	5755	52.08	5729.16	5781.24	---	---
	Ant1	5795	59.28	5764.92	5824.20	---	---
	Ant2	5795	52.72	5768.76	5821.48	---	---
11AC80MIMO	Ant1	5210	88.80	5165.20	5254.00	---	---
	Ant2	5210	84.32	5168.56	5252.88	---	---
	Ant1	5290	93.60	5241.36	5334.96	---	---
	Ant2	5290	87.52	5245.36	5332.88	---	---
	Ant1	5530	88.64	5486.64	5575.28	---	---
	Ant2	5530	84.32	5488.88	5573.20	---	---
	Ant1	5610	94.24	5565.20	5659.44	---	---
	Ant2	5610	87.20	5565.84	5653.04	---	---
	Ant1	5690	90.56	5645.84	5736.40	---	---
	Ant2	5690	88.16	5647.12	5735.28	---	---
	Ant1	5690_UNII-2C	79.16	5645.84	5725	---	---
	Ant2	5690_UNII-2C	77.88	5647.12	5725	---	---
	Ant1	5690_UNII-3	11.4	5725	5736.40	---	---
	Ant2	5690_UNII-3	10.28	5725	5735.28	---	---
	Ant1	5775	89.92	5730.04	5819.96	---	---
	Ant2	5775	83.36	5734.20	5817.56	---	---

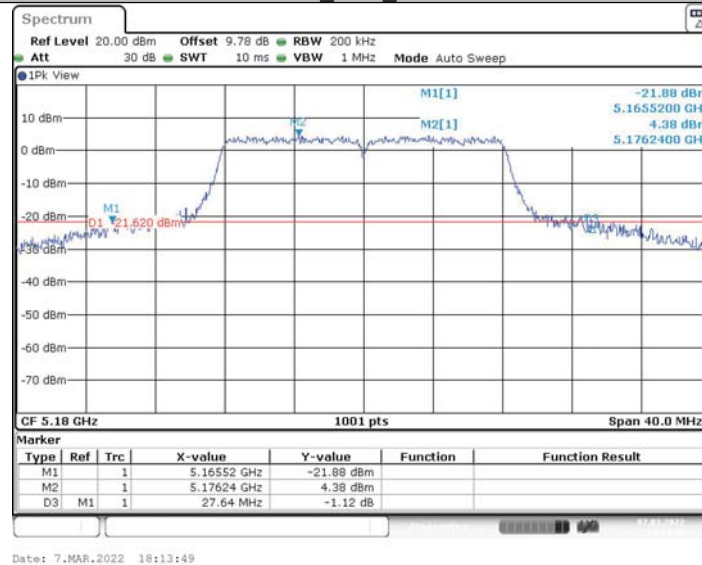


5.1.2 Test Graphs

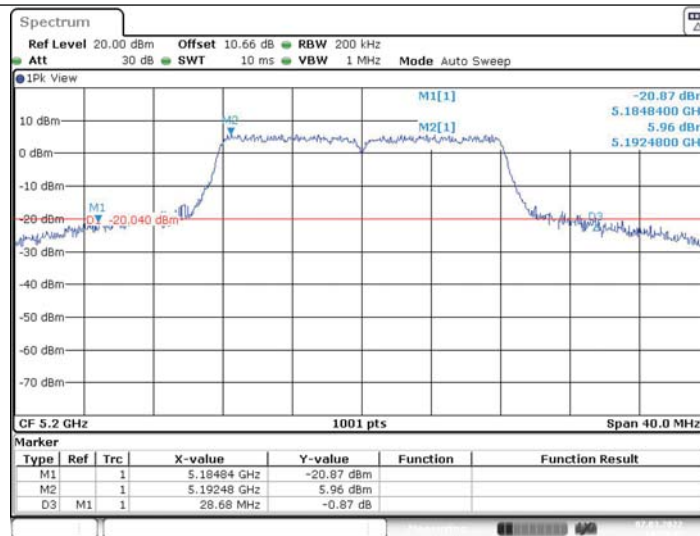
11A_Ant1_5180



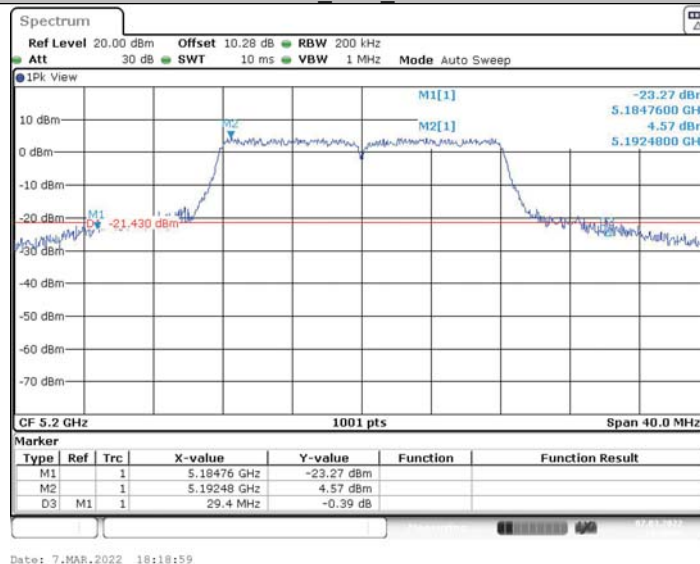
11A_Ant2_5180



11A_Ant1_5200



11A_Ant2_5200



11A_Ant1_5240

