FCC/IC RF Test Report

APPLICANT	:	Sony Mobile Communications AB
EQUIPMENT	:	Smart phone
BRAND NAME	:	SONY
TYPE NAME	:	PM-0771-BV
FCC ID	:	PY7PM-0771
IC	:	4170B-PM0771
STANDARD	:	FCC Part 15 Subpart E §15.407 IC RSS-210 issue 8
CLASSIFICATION	:	(NII) Unlicensed National Information Infrastructure

The product was received on Apr. 02, 2014 and testing was completed on Jun. 04, 2014. We, SPORTON INTERNATIONAL INC., would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC., the test report shall not be reproduced except in full.

Reviewed by: Joseph Lin / Supervisor

Approved by: Jones Tsai / Manager

Testing Laboratory 1190

SPORTON INTERNATIONAL INC.
No. 52, Hwa Ya 1st Rd., Hwa Ya Technology Park, Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C.

TABLE OF CONTENTS

REVISION HISTORY **3**

SUMMARY OF TEST RESULT **4**

1 GENERAL DESCRIPTION **5**

1.1 Applicant 5
1.2 Manufacturer 5
1.3 Feature of Equipment Under Test 5
1.4 Product Specification of Equipment Under Test 6
1.5 Modification of EUT 7
1.6 Testing Location 8
1.7 Applicable Standards 8

2 TEST CONFIGURATION OF EQUIPMENT UNDER TEST **9**

2.1 Carrier Frequency Channel 10
2.2 Pre-Scanned RF Power 11
2.3 Test Mode 13
2.4 Connection Diagram of Test System 15
2.5 Support Unit used in test configuration and system 16
2.6 EUT Operation Test Setup 16
2.7 Measurement Results Explanation Example 16

3 TEST RESULT **17**

3.1 26dB & 99% Occupied Bandwidth Measurement 17
3.2 Maximum Conducted Output Power Measurement 25
3.3 Power Spectral Density Measurement 30
3.4 Peak Excursion Ratio Measurement 34
3.5 Unwanted Radiated Emission Measurement 37
3.6 AC Conducted Emission Measurement 222
3.7 Frequency Stability Measurement 226
3.8 Automatically Discontinue Transmission 228
3.9 Antenna Requirements 229

4 LIST OF MEASURING EQUIPMENTS **230**

5 UNCERTAINTY OF EVALUATION **232**

REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR440284F	Rev. 01	Initial issue of report	Jun. 09, 2014

SUMMARY OF TEST RESULT

Report Section	FCC Rule	IC Rule	Description	Limit	Result	Remark
3.1	15.403(i)	RSS-210 A9.2	26dB & 99% Bandwidth	-	Pass	-
3.2	15.407(a)	RSS-210 A9.2	Maximum Conducted Output Power	≤ 17, 24, 30 dBm (depend on band)	Pass	-
3.3	15.407(a)	RSS-210 A9.2	Power Spectral Density	≤ 4, 11, 17 dBm (depend on band)	Pass	-
3.4	15.407(a)(6)	RSS-210 A9.3	Peak Excursion Ratio	≤ 13dB	Pass	-
3.5	15.407(b)	RSS-210 A9.3	Unwanted Emissions	≤ -17, -27 dBm (depend on band)&15.209(a)	Pass	Under limit 3.1 dB at 5725 MHz
3.6	15.207	RSS-Gen 7.2.4	AC Conducted Emission	15.207(a)	Pass	Under limit 6.10 dB at 0.158 MHz
3.7	15.407(g)	-	Frequency Stability	Within Operation Band	Pass	-
3.8	15.407(c)	RSS-210 A9.4	Automatically Discontinue Transmission	Discontinue Transmission	Pass	-
3.9	15.203 & 15.407(a)	RSS-210 A9.2	Antenna Requirement	N/A	Pass	-

1 General Description

1.1 Applicant

Sony Mobile Communications AB
Nya Vattentornet, 22188 Lund, Sweden

1.2 Manufacturer

Compal Communications, INC.
No. 385, Yangguang Street, Neihu, Taipei 11491, Taiwan

1.3 Feature of Equipment Under Test

The Equipment Under Test (hereafter called: EUT) is smart phone supporting, GSM / WCDMA / LTE, Wi-Fi 2.4GHz 802.11b/g/n, Wi-Fi 5GHz 802.11a/n, Bluetooth with FM Receiver, ANT+, GPS, and NFC features, and below is details of information.

General Information of Equipment Under Test	
Equipment	Smart phone
Brand Name	SONY
Type Name	PM-0771-BV
FCC ID	PY7PM-0771
IC	4170B-PM0771
GSM Operating Band(s)	GSM 850/900/1800/1900MHz
GPRS / EGPRS Multi Slot Class	GPRS Class 33, EGPRS Class 33
WCDMA Operating Band(s)	FDD Band I / II / IV / V
WCDMA Rel. Version	Rel. 8
LTE Operating Band(s)	FDD Band II / IV / VII / XVII
LTE Rel. Version	Rel. 10
Wi-Fi Specification	802.11b/g/n (HT40), 802.11a/n (HT20/HT40)
Bluetooth Version	v3.0+EDR / v4.0-LE
NFC Specification	ISO14443A / ISO14443B / Felica
ANT+	ANT+
Power Supply	Battery / AC Adapter / Car Charger
EUT Stage	Production Unit

Remark: The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

1.4 Product Specification of Equipment Under Test

Product Specification subjective to this standard	
Tx/Rx Frequency Range	5180 MHz ~ 5240 MHz 5260 MHz ~ 5320 MHz 5500 MHz ~ 5580 MHz 5660 MHz ~ 5700 MHz
Maximum Output Power to Antenna	**<5180 MHz ~ 5240 MHz>** 802.11a : 13.72 dBm / 0.0236 W 802.11n HT20 : 13.69 dBm / 0.0234 W 802.11n HT40 : 13.83 dBm / 0.0242 W **<5260 MHz ~ 5320 MHz>** 802.11a : 13.97 dBm / 0.0249 W 802.11n HT20 : 13.95 dBm / 0.0248 W 802.11n HT40 : 13.89 dBm / 0.0245 W **<5500 MHz ~ 5580 MHz and 5660 MHz ~ 5700 MHz >** 802.11a : 13.95 dBm / 0.0248 W 802.11n HT20 : 14.00 dBm / 0.0251 W 802.11n HT40 : 13.64 dBm / 0.0231 W
99% Occupied Bandwidth	802.11a : 19.15 MHz 802.11n HT20 : 21.20 MHz 802.11n HT40 : 37.53 MHz
Antenna Type	**<5180 MHz ~ 5240 MHz>** PIFA Antenna with gain -1.40 dBi **<5260 MHz ~ 5320 MHz>** PIFA Antenna with gain -1.50 dBi **<5500 MHz ~ 5580 MHz and 5660 MHz ~ 5700 MHz>** PIFA Antenna with gain -1.40 dBi
Type of Modulation	OFDM (BPSK / QPSK / 16QAM / 64QAM)
HW Version	A
SW Version	18.3.C.0.8
EUT Stage	Production Unit

EUT Information List				
IMEI	HW Version	SW Version	S/N	Performed Test Item
IMEI : 004402452474269	A	18.3.C.0.8	ZH8002JUPJ	RF conducted measurement
IMEI : 004402452477643			ZH80038NS9	Radiated Spurious Emission
IMEI : 004402452477734			ZH8002JVQW	Conducted Emission

Accessory List	
AC Adapter	Model No. : EP800
	Type No. : CAA-0002016-US B
	SN : 1112W28321732 (for Radiated Spurious Emission) 3113W23610674 (for AC power line Conducted Emission)
Battery	Model No. : LIS1551ERPC
	Type No. : F-4993-128-0
Earphone	Model No. : MH410c
	Type No. : AG-1100
	SN : 12522047001ADD8 (for Radiated Spurious Emission) 12481A10036502 (for AC power line Conducted Emission)
USB Cable	Model No. : AHAB EC450
	Type No. : AI-0700
	SN : 132512DA0631054 (for Radiated Spurious Emission) 132212DF3297482 (for AC power line Conducted Emission)

Note:

1. Above EUT list and accessory list used are electrically identical per declared by manufacturer.
2. Above the accessories list are used to exercise the EUT during test, and the serial number of each type of accessories is listed in each section of this report.
3. For other wireless features of this EUT, test report will be issued separately.

1.5 Modification of EUT

No modifications are made to the EUT during all test items.

1.6 Testing Location

Sporton Lab is accredited to ISO 17025 by Taiwan Accreditation Foundation (TAF code : 1190) and the FCC designation No. TW1022 under the FCC 2.948(e) by Mutual Recognition Agreement (MRA) in FCC Test.

Test Site	SPORTON INTERNATIONAL INC.			
Test Site Location	No. 52, Hwa Ya 1st Rd., Hwa Ya Technology Park, Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C. TEL: +886-3-3273456 / FAX: +886-3-3284978			
Test Site No.	Sporton Site No.			IC Registration No.
	TH02-HY	CO05-HY	03CH06-HY	4086B-1

1.7 Applicable Standards

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

- FCC Part 15 Subpart E
- FCC KDB 789033 D01 General UNII Test Procedures v01r03
- ANSI C63.4-2003
- IC RSS-210 Issued 8
- IC RSS-Gen Issue 3
- NOTICE 2012-DRS0126

Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.
3. Per the section 2.2.3 of Notice of 2012-DRS0126, " Receivers Excluded from Industry Canada Requirements", only radiocommunication receivers operating in stand-alone mode within the band 30-960 MHz and scanner receivers are subject to Industry Canada requirements.

2 Test Configuration of Equipment Under Test

The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: conducted emission (150 kHz to 30 MHz) and radiated emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases (X plane) were recorded in this report.

The final configuration from all the combinations and the worst-case data rates were investigated by measuring the maximum power across all the data rates and modulation modes under section 2.2.

Based on the worst configuration found above, the RF power setting is set individually to meet FCC compliance limit for the final conducted and radiated tests shown in section 2.3.

2.1 Carrier Frequency Channel

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
5150-5250 MHz Band 1 (U-NII-1)	36	5180	44	5220
	38	**5190**	**46**	**5230**
	40	5200	48	5240

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
5250-5350 MHz Band 2 (U-NII-2A)	52	5260	60	5300
	54	**5270**	**62**	**5310**
	56	5280	64	5320

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
5470-5600 MHz and 5650-5725 MHz Band 3 (U-NII-2C)	100	5500	116	5580
	102	**5510**	132	5660
	104	5520	**134**	**5670**
	108	5540	136	5680
	110	**5550**	140	5700
	112	5560		

Note: The above Frequency and Channel in boldface were 802.11n HT40.

2.2 Pre-Scanned RF Power

Preliminary tests were performed in different data rate and data rate associated with the highest power were chosen for full test in the following tables. Final Output Power equals to Measured Output Power adds the duty factor.

<5180 MHz ~ 5240 MHz>

5GHz 802.11a mode								
Data Rate (MHz)	6M bps	9M bps	12M bps	18M bps	24M bps	36M bps	48M bps	54M bps
Average Power (dBm)	13.72	13.61	13.53	13.71	13.67	13.71	13.70	13.66

5GHz 802.11n HT20 mode								
Data Rate (MHz)	MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
Average Power (dBm)	13.69	13.65	13.68	13.66	13.68	13.66	13.68	13.65

5GHz 802.11n HT40 mode								
Data Rate (MHz)	MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
Average Power (dBm)	13.83	13.77	13.81	13.82	13.80	13.79	13.77	13.74

<5260 MHz ~ 5320 MHz>

5GHz 802.11a mode								
Data Rate (MHz)	6M bps	9M bps	12M bps	18M bps	24M bps	36M bps	48M bps	54M bps
Average Power (dBm)	13.97	13.96	13.95	13.94	13.96	13.95	13.96	13.96

5GHz 802.11n HT20 mode								
Data Rate (MHz)	MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
Average Power (dBm)	13.95	13.94	13.89	13.94	13.89	13.90	13.92	13.91

5GHz 802.11n HT40 mode								
Data Rate (MHz)	MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
Average Power (dBm)	13.89	13.87	13.84	13.80	13.83	13.82	13.75	13.79

<5500 MHz ~ 5580 MHz and 5660 MHz ~ 5700 MHz >

5GHz 802.11a mode								
Data Rate (MHz)	6M bps	9M bps	12M bps	18M bps	24M bps	36M bps	48M bps	54M bps
Average Power (dBm)	13.95	13.70	13.52	13.56	13.33	13.53	13.86	13.80

5GHz 802.11n HT20 mode								
Data Rate (MHz)	MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
Average Power (dBm)	14.00	13.99	13.98	13.98	13.99	13.98	13.98	13.95

5GHz 802.11n HT40 mode								
Data Rate (MHz)	MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
Average Power (dBm)	13.64	13.59	13.63	13.63	13.62	13.56	13.57	13.59

2.3 Test Mode

Final results of test modes, data rates and test channels are shown as following table.

Test Cases				
	Test Items	Mode	Data rate	Test Channel
Conducted TCs	26dB and 99% BW Power Spectral Density	802.11a	6 Mbps	L/M/H
		802.11n HT20	MCS0	L/M/H
		802.11n HT40	MCS0	L/M/H
	Output Power	802.11a	6 Mbps	L/M/H
		802.11n HT20	MCS0	L/M/H
		802.11n HT40	MCS0	L/M/H
	Peak Excursion	802.11a	6 Mbps	L
		802.11n HT20	MCS0	L
		802.11n HT40	MCS0	L
	Frequency Stability	802.11a	6 Mbps	L
Radiated TCs	Radiated Band Edge	802.11a	6 Mbps	L/H
		802.11n HT20	MCS0	L/H
		802.11n HT40	MCS0	L/H
	Radiated Spurious Emission	802.11a	6 Mbps	L/M/H
		802.11n HT20	MCS0	L/M/H
		802.11n HT40	MCS0	L/M/H
AC Conducted Emission	Mode 1 : GSM1900 Idle + Bluetooth Link + WLAN (5GHz) Link + GPS Rx + Earphone + Battery + USB Cable (Data Link with Notebook)			

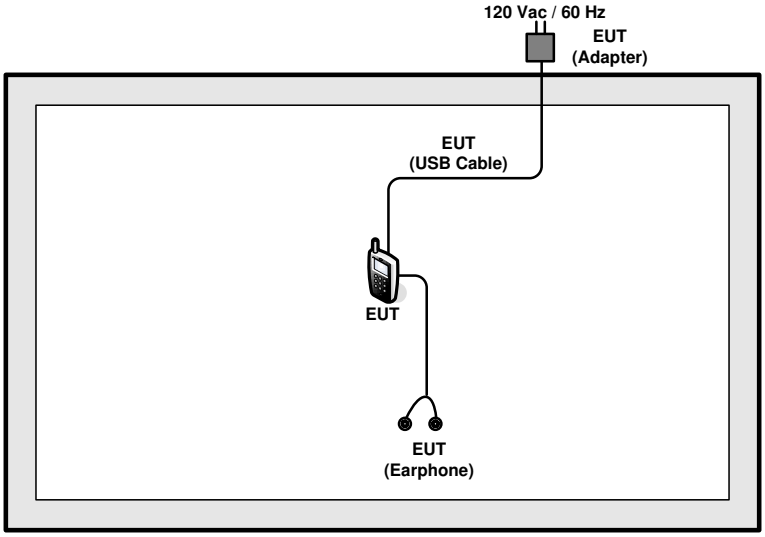
Ch. #		Band I：5150-5250 MHz	Band II：5250-5350 MHz	Band III：5470-5600 MHz and 5650-5725MHz
		802.11a	802.11a	802.11a
L	Low	36	52	100
M	Middle	44	60	116
H	High	48	64	140

Ch. #		Band I：5150-5250 MHz	Band II：5250-5350 MHz	Band III：5470-5600 MHz and 5650-5725MHz
		802.11n HT20	802.11n HT20	802.11n HT20
L	Low	36	52	100
M	Middle	44	60	116
H	High	48	64	140

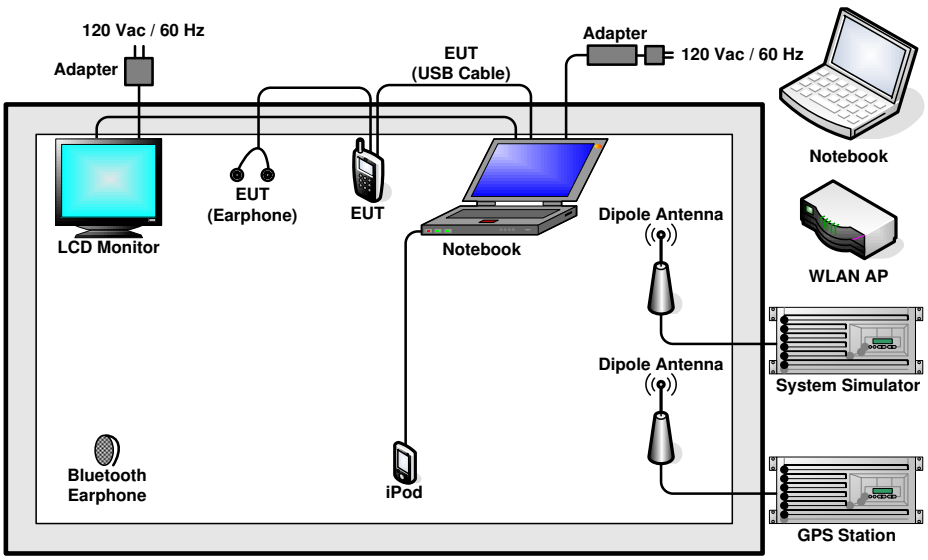
Ch. #		Band I：5150-5250 MHz	Band II：5250-5350 MHz	Band III：5470-5600 MHz and 5650-5725MHz
		802.11n HT40	802.11n HT40	802.11n HT40
L	Low	38	54	102
M	Middle	-	-	110
H	High	46	62	134

2.4 Connection Diagram of Test System

<WLAN Tx Mode>



<AC Conducted Emission Mode in WLAN Idle>



2.5 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	System Simulator	R&S	CMU 200	N/A	N/A	Unshielded, 1.8 m
2.	Bluetooth Earphone	Sony	MH755	PY7-RD0010	Unshielded, 0.75m	N/A
3.	GPS Station	Pendulum	GSG-54	N/A	N/A	Unshielded, 1.8 m
4.	WLAN AP	D-Link	DIR-628	KA2DIR628A2	N/A	Unshielded, 1.8 m
5.	Notebook	DELL	Latitude E6320	FCC DoC/ Contains FCC ID: QDS-BRCM1054	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
6.	LCD Monitor	DELL	U2410	FCC DoC	Shielded, 1.6 m	Unshielded, 1.8 m
7.	iPod	Apple	A1285	FCC DoC	Shielded, 1.0 m	N/A
8.	SD Card	SanDisk	MicroSD HC	FCC DoC	N/A	N/A

2.6 EUT Operation Test Setup

For WLAN function, programmed RF utility, “Android Debug Bridge” installed in the notebook make the EUT provide functions like channel selection and power level for continuous transmitting and receiving signals.

2.7 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

Example :

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

Offset = RF cable loss + attenuator factor.

Following shows an offset computation example with cable loss 4.2 dB and 10dB attenuator.

Offset(dB) = RF cable loss(dB) + attenuator factor(dB).

= 4.2 + 10 = 14.2 (dB)

3 Test Result

3.1 26dB & 99% Occupied Bandwidth Measurement

3.1.1 Description of 26dB & 99% Occupied Bandwidth

There is no restriction limits for bandwidth. The maximum conducted output power can be limited by measured emission bandwidth (B).

For the band 5150-5250 MHz, the maximum conducted output power over the frequency band of operation shall not exceed the lesser of 50 mW (17dBm) or 4 dBm + 10log B.

For the bands 5250-5350 MHz and 5470-5600 MHz and 5650-5725MHz, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW (24dBm) or 11 dBm + 10log B.

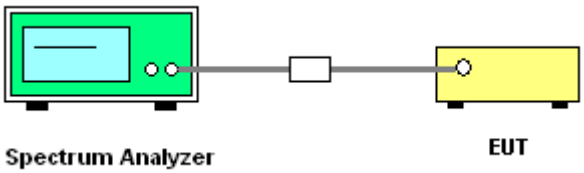
3.1.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.1.3 Test Procedures

1. The testing follows FCC KDB 789033 D01 General UNII Test Procedures v01r03. Section D) Emission bandwidth
2. Set RBW = approximately 1% of the emission bandwidth.
3. Set the VBW > RBW.
4. Detector = Peak.
5. Trace mode = max hold
6. 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%.
7. For 99% Bandwidth Measurement, the spectrum analyzer's resolution bandwidth (RBW) is set 1MHz and set the Video bandwidth (VBW) ≥ 3 * RBW.
8. Measure and record the results in the test report.

3.1.4 Test Setup



3.1.5 Test Result of 26dB & 99% Occupied Bandwidth Plots

Test Band :	5GHz band 1	Temperature :	21~26℃
Test Engineer :	Kenny Chen	Relative Humidity :	45~54%

Mod.	Data Rate	N_{TX}	Channel	Freq. (MHz)	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	IC 99% Bandwidth EIRP Limit (dBm)	FCC 26dB Bandwidth Power Limit (dBm)
11a	6Mbps	1	36	5180	18.30	22.55	22.62	16.99
11a	6Mbps	1	44	5220	18.15	22.40	22.59	16.99
11a	6Mbps	1	48	5240	18.40	22.30	22.65	16.99
HT20	MCS0	1	36	5180	19.15	22.80	22.82	16.99
HT20	MCS0	1	44	5220	18.90	22.70	22.76	16.99
HT20	MCS0	1	48	5240	19.10	22.85	22.81	16.99
HT40	MCS0	1	38	5190	36.63	45.45	23.01	16.99
HT40	MCS0	1	46	5230	36.99	45.72	23.01	16.99

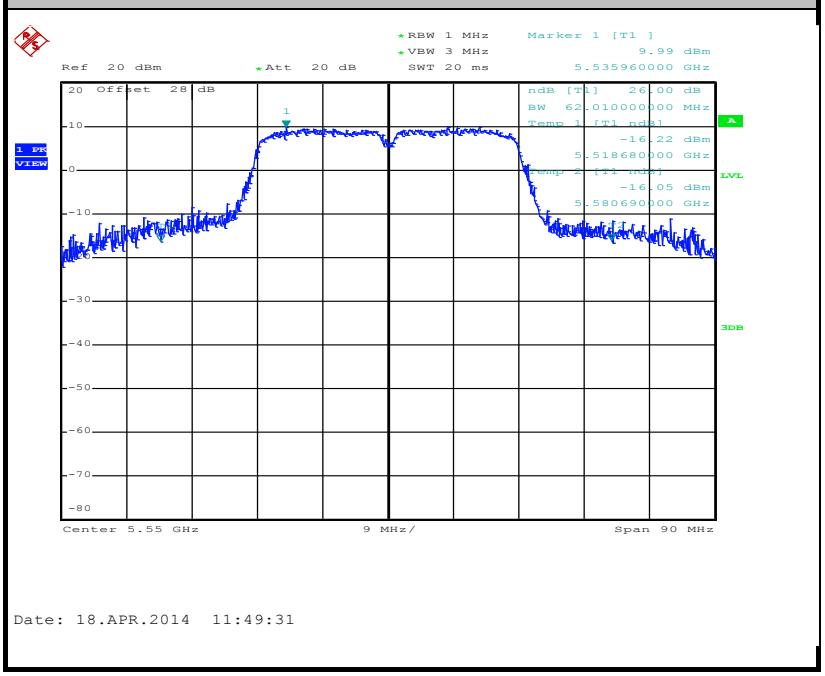
Test Band :	5GHz band 2	Temperature :	21~26℃
Test Engineer :	Kenny Chen	Relative Humidity :	45~54%

Mod.	Data Rate	N_{TX}	Channel	Freq. (MHz)	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	IC 99% Bandwidth EIRP Limit (dBm)	FCC 26dB Bandwidth Power Limit (dBm)
11a	6Mbps	1	52	5260	18.25	22.25	29.61	23.98
11a	6Mbps	1	60	5300	18.25	22.7	29.61	23.98
11a	6Mbps	1	64	5320	18.15	22.7	29.59	23.98
HT20	MCS0	1	52	5260	18.9	22.8	29.76	23.98
HT20	MCS0	1	60	5300	18.85	23.1	29.75	23.98
HT20	MCS0	1	64	5320	19.15	23.2	29.82	23.98
HT40	MCS0	1	54	5270	36.72	46.08	30.00	23.98
HT40	MCS0	1	62	5310	36.54	44.82	30.00	23.98

Test Band :	5GHz band 3	Temperature :	21~26℃
Test Engineer :	Kenny Chen	Relative Humidity :	45~54%

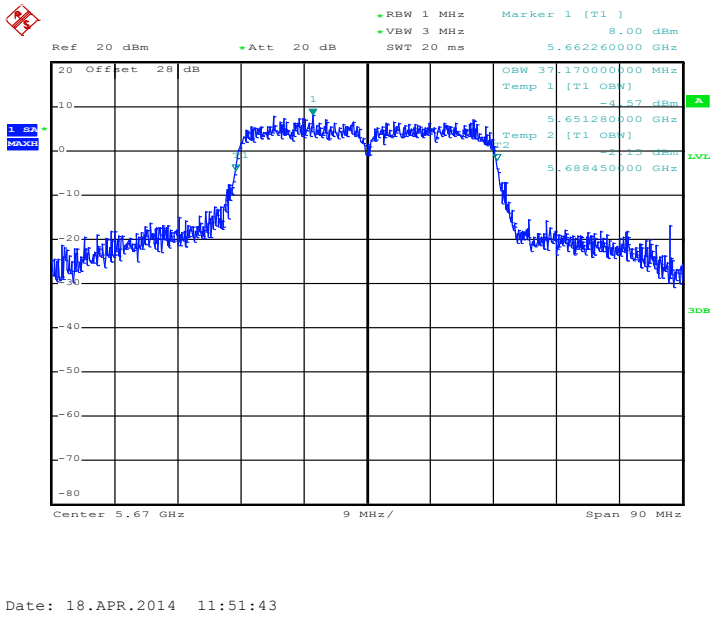
Mod.	Data Rate	N_{TX}	Channel	Freq. (MHz)	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	IC 99% Bandwidth EIRP Limit (dBm)	FCC 26dB Bandwidth Power Limit (dBm)
11a	6Mbps	1	100	5500	18.6	24.1	29.70	23.98
11a	6Mbps	1	116	5580	19.15	31.4	29.82	23.98
11a	6Mbps	1	140	5700	18.5	23.1	29.67	23.98
HT20	MCS0	1	100	5500	20	28.2	30.00	23.98
HT20	MCS0	1	116	5580	21.2	39.65	30.00	23.98
HT20	MCS0	1	140	5700	19.4	24.4	29.88	23.98
HT40	MCS0	1	102	5510	36.63	46.08	30.00	23.98
HT40	MCS0	1	110	5550	37.44	62.01	30.00	23.98
HT40	MCS0	1	134	5670	37.17	61.56	30.00	23.98

Maximum 26dB Bandwidth



Note: The total loss is 28.0 dB of the RF cable and attenuator, and has been compensated to the spectrum analyzer offset.

Maximum 99% Occupied Bandwidth



Note: The total loss is 28.0 dB of the RF cable and attenuator, and has been compensated to the spectrum analyzer offset.

3.1.6 Test Result of 20dB Occupied Bandwidth

<5180 MHz ~ 5240 MHz>

Mod.	Data Rate	NTX	Channel	Freq. (MHz)	20dB Bandwidth (MHz)	20dB Bandwidth Upper Frequency (FH) (MHz)	Upper Limit Line (MHz)	Pass/Fail
11a	6Mbps	1	48	5240	20.00	5249.90	5250	Pass
HT20	MCS0	1	48	5240	19.90	5249.80		Pass
HT40	MCS0	1	46	5230	39.42	5249.71		Pass

<5260 MHz ~ 5320 MHz>

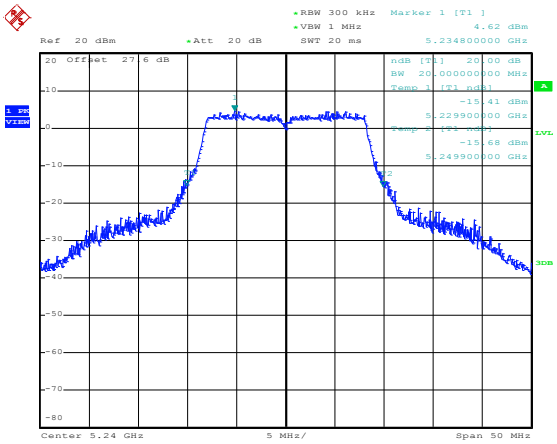
Mod.	Data Rate	NTX	Channel	Freq. (MHz)	20dB Bandwidth (MHz)	20dB Bandwidth Upper Frequency (FH) (MHz)	Lower Limit Line (MHz)	Pass/Fail
11a	6Mbps	1	52	5260	19.90	5269.95	5250	Pass
HT20	MCS0	1	52	5260	20.50	5250.00		Pass
HT40	MCS0	1	54	5270	39.24	5250.29		Pass

<5500 MHz ~ 5580 MHz and 5660 MHz ~ 5700 MHz >

Mod.	Data Rate	NTX	Channel	Freq. (MHz)	20dB Bandwidth (MHz)	20dB Bandwidth Upper Frequency (FH) (MHz)	Lower Limit Line (MHz)	Pass/Fail
11a	6Mbps	1	132	5660	20.05	5650.00	5650	Pass
HT20	MCS0	1	132	5660	19.50	5650.10		Pass
HT40	MCS0	1	134	5670	39.60	5650.11		Pass

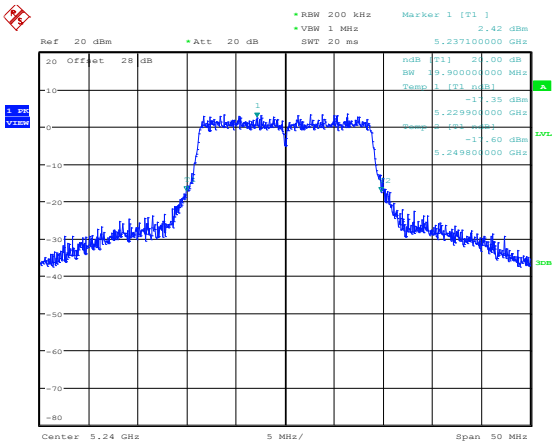
20dB Occupied Bandwidth

802.11a CH48 5240MHz



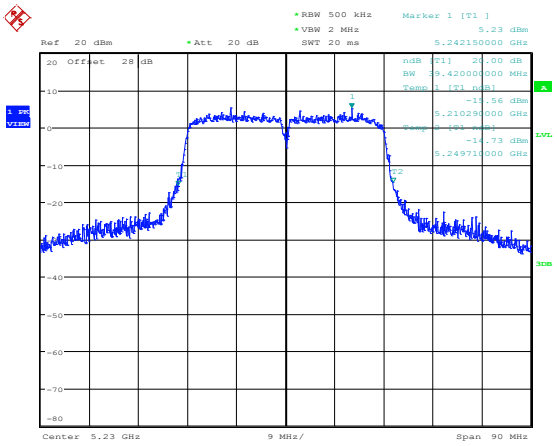
Date: 16.APR.2014 14:14:21

802.11n HT20 CH48 5240MHz



Date: 19.APR.2014 02:03:41

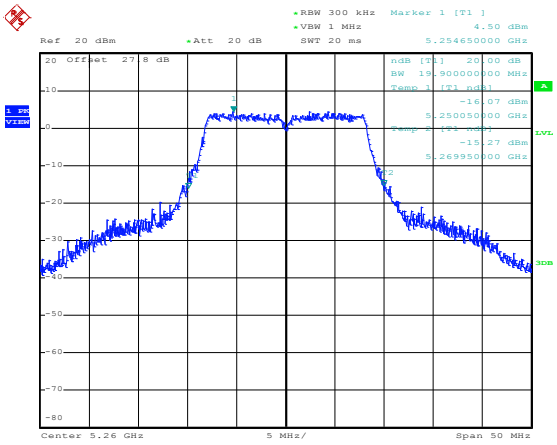
802.11n HT40 CH46 5230MHz



Date: 19.APR.2014 02:22:31

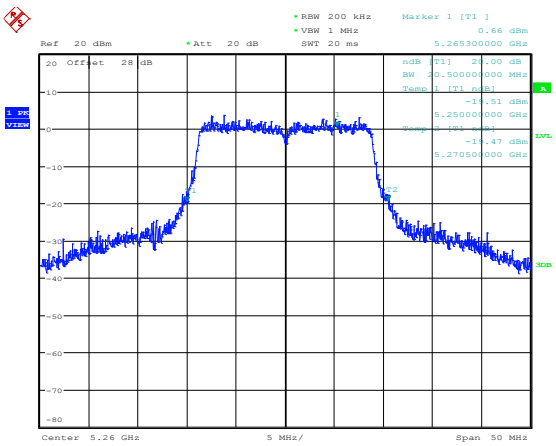
20dB Occupied Bandwidth

802.11a CH52 5260MHz



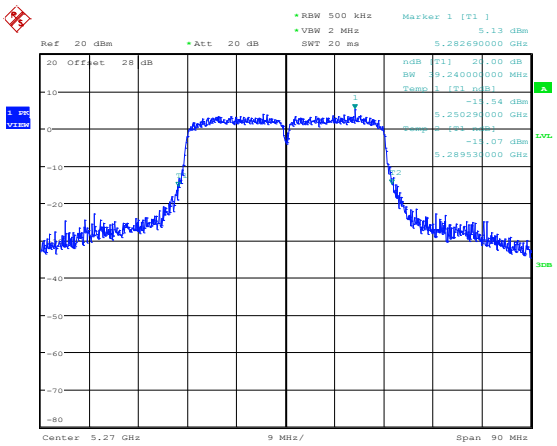
Date: 16.APR.2014 14:19:03

802.11n HT20 CH52 5260MHz



Date: 19.APR.2014 02:17:32

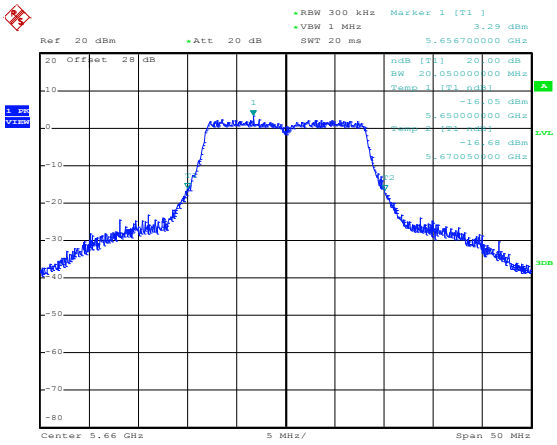
802.11n HT40 CH54 5270MHz



Date: 19.APR.2014 02:25:36

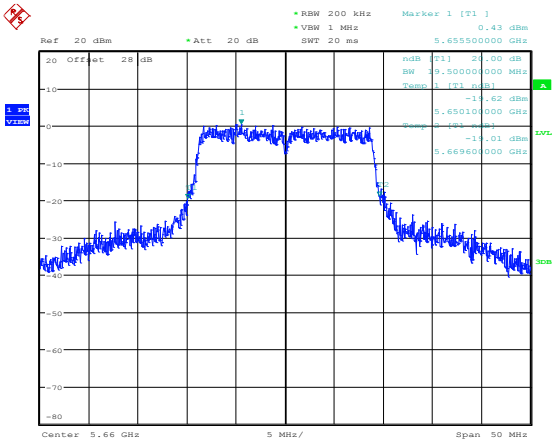
20dB Occupied Bandwidth

802.11a CH132 5660MHz



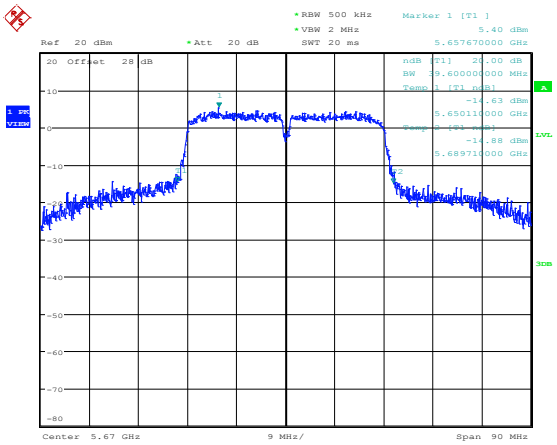
Date: 16.APR.2014 15:44:56

802.11n HT20 CH132 5660MHz



Date: 19.APR.2014 02:14:55

802.11n HT40 CH134 5670MHz



Date: 19.APR.2014 02:28:58

3.2 Maximum Conducted Output Power Measurement

3.2.1 Limit of Maximum Conducted Output Power

For the band 5150-5250 MHz, the maximum conducted output power shall not exceed the lesser of 50 mW (17dBm) or 4 dBm + 10log B, where B is the 26 dB emissions bandwidth in 1-MHz. If transmitting antenna directional gain is greater than 6 dBi, the peak output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For the bands 5250-5350 MHz and 5470-5600 MHz and 5650-5725 MHz, bands, the maximum conducted output power shall not exceed the lesser of 250 mW (24dBm) or 11 dBm + 10log B, where B is the 26 dB emissions bandwidth in 1-MHz. If transmitting antenna directional gain is greater than 6 dBi, the peak output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

If transmitting antennas of directional gain greater than 6 dBi are used, the peak output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

3.2.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

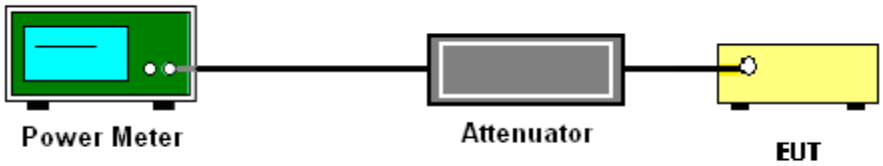
3.2.3 Test Procedures

The testing follows Method PM of FCC KDB 789033 D01 General UNII Test Procedures v01r03.

Method PM (Measurement using an RF average power meter):

1. Measurement is performed using a wideband RF power meter.
2. The EUT is configured to transmit continuously with a consistent duty cycle at its maximum power control level.
3. Measure the average power of the transmitter, and the average power is corrected with duty factor, 10 log(1/x), where x is the duty cycle.

3.2.4 Test Setup



3.2.5 Test Result of Maximum Conducted Output Power

Test Band :	5GHz band 1	Temperature :	21~26℃
Test Engineer :	Kenny Chen	Relative Humidity :	45~54%

Mod.	Data Rate	N_{TX}	Channel	Freq. (MHz)	Duty Factor (dB)	Average Conducted Power (dBm)	FCC Conducted Power Limit (dBm)	DG (dBi)		Pass/Fail
11a	6Mbps	1	36	5180	0.59	13.72	16.99	-1.40	-	Pass
11a	6Mbps	1	44	5220	0.59	13.66	16.99	-1.40		Pass
11a	6Mbps	1	48	5240	0.59	13.57	16.99	-1.40		Pass
HT20	MCS0	1	36	5180	0.64	13.69	16.99	-1.40		Pass
HT20	MCS0	1	44	5220	0.64	13.62	16.99	-1.40		Pass
HT20	MCS0	1	48	5240	0.64	13.57	16.99	-1.40		Pass
HT40	MCS0	1	38	5190	1.18	13.83	16.99	-1.40		Pass
HT40	MCS0	1	46	5230	1.18	13.75	16.99	-1.40		Pass

Mod.	Data Rate	N_{TX}	Channel	Freq. (MHz)	Duty Factor (dB)	Average Conducted Power (dBm)	IC Conducted Power Limit (dBm)	DG (dBi)	EIRP Power Limit (dBm)	Pass/Fail
11a	6Mbps	1	36	5180	0.59	13.72	-	-1.40	22.62	Pass
11a	6Mbps	1	44	5220	0.59	13.66		-1.40	22.59	Pass
11a	6Mbps	1	48	5240	0.59	13.57		-1.40	22.65	Pass
HT20	MCS0	1	36	5180	0.64	13.69		-1.40	22.82	Pass
HT20	MCS0	1	44	5220	0.64	13.62		-1.40	22.76	Pass
HT20	MCS0	1	48	5240	0.64	13.57		-1.40	22.81	Pass
HT40	MCS0	1	38	5190	1.18	13.83		-1.40	23.01	Pass
HT40	MCS0	1	46	5230	1.18	13.75		-1.40	23.01	Pass

Note:

1. Final Output Power equals to Measured Output Power adds the duty factor.
2. For the band 5150-5250 MHz, the maximum average conducted output power shall not exceed lesser of 50 mW (17dBm) or 4 dBm + 10log (B), where B is 26dB BW for FCC.
3. For the band 5150-5250 MHz, the maximum average EIRP output power shall not exceed lesser of 200 mW (23dBm) or 10 dBm + 10log (B), where B is 99%OBW for IC.

Test Band :	5GHz band 2	Temperature :	21~26℃
Test Engineer :	Kenny Chen	Relative Humidity :	45~54%

Mod.	Data Rate	N_{TX}	Channel	Freq. (MHz)	Duty Factor (dB)	Average Conducted Power (dBm)	FCC Conducted Power Limit (dBm)	DG (dBi)		Pass/Fail
11a	6Mbps	1	52	5260	0.59	13.63	23.98	-1.50	-	Pass
11a	6Mbps	1	60	5300	0.59	13.90	23.98	-1.50		Pass
11a	6Mbps	1	64	5320	0.59	13.97	23.98	-1.50		Pass
HT20	MCS0	1	52	5260	0.64	13.59	23.98	-1.50		Pass
HT20	MCS0	1	60	5300	0.64	13.85	23.98	-1.50		Pass
HT20	MCS0	1	64	5320	0.64	13.95	23.98	-1.50		Pass
HT40	MCS0	1	54	5270	1.18	13.89	23.98	-1.50		Pass
HT40	MCS0	1	62	5310	1.18	12.62	23.98	-1.50		Pass

Mod.	Data Rate	N_{TX}	Channel	Freq. (MHz)	Duty Factor (dB)	Average Conducted Power (dBm)	IC Conducted Power Limit (dBm)	DG (dBi)	EIRP Power Limit (dBm)	Pass/Fail
11a	6Mbps	1	52	5260	0.59	13.63	23.61	-1.50	29.61	Pass
11a	6Mbps	1	60	5300	0.59	13.90	23.61	-1.50	29.61	Pass
11a	6Mbps	1	64	5320	0.59	13.97	23.59	-1.50	29.59	Pass
HT20	MCS0	1	52	5260	0.64	13.59	23.76	-1.50	29.76	Pass
HT20	MCS0	1	60	5300	0.64	13.85	23.75	-1.50	29.75	Pass
HT20	MCS0	1	64	5320	0.64	13.95	23.82	-1.50	29.82	Pass
HT40	MCS0	1	54	5270	1.18	13.89	23.98	-1.50	30.00	Pass
HT40	MCS0	1	62	5310	1.18	12.62	23.98	-1.50	30.00	Pass

Note:

1. Final Output Power equals to Measured Output Power adds the duty factor.
2. For the 5250-5350 MHz and 5470-5600 MHz and 5650-5725 MHz bands, the maximum conducted output power shall not exceed the lesser of 250 mW (24dBm) or 11 dBm + 10log (B), where B is 26dB BW for FCC and 99% OBW for IC.

Test Band :	5GHz band 3	Temperature :	21~26℃
Test Engineer :	Kenny Chen	Relative Humidity :	45~54%

Mod.	Data Rate	N_{TX}	Channel	Freq. (MHz)	Duty Factor (dB)	Average Conducted Power (dBm)	FCC Conducted Power Limit (dBm)	DG (dBi)		Pass/Fail
11a	6Mbps	1	100	5500	0.59	13.95	23.98	-1.40	-	Pass
11a	6Mbps	1	116	5580	0.59	13.67	23.98	-1.40		Pass
11a	6Mbps	1	140	5700	0.59	13.83	23.98	-1.40		Pass
HT20	MCS0	1	100	5500	0.64	14.00	23.98	-1.40		Pass
HT20	MCS0	1	116	5580	0.64	13.72	23.98	-1.40		Pass
HT20	MCS0	1	140	5700	0.64	13.88	23.98	-1.40		Pass
HT40	MCS0	1	102	5510	1.18	11.56	23.98	-1.40		Pass
HT40	MCS0	1	110	5550	1.18	13.64	23.98	-1.40		Pass
HT40	MCS0	1	134	5670	1.18	13.52	23.98	-1.40		Pass

Mod.	Data Rate	N_{TX}	Channel	Freq. (MHz)	Duty Factor (dB)	Average Conducted Power (dBm)	IC Conducted Power Limit (dBm)	DG (dBi)	EIRP Power Limit (dBm)	Pass/Fail
11a	6Mbps	1	100	5500	0.59	13.95	23.70	-1.40	29.70	Pass
11a	6Mbps	1	116	5580	0.59	13.67	23.82	-1.40	29.82	Pass
11a	6Mbps	1	140	5700	0.59	13.83	23.67	-1.40	29.67	Pass
HT20	MCS0	1	100	5500	0.64	14.00	23.98	-1.40	30.00	Pass
HT20	MCS0	1	116	5580	0.64	13.72	23.98	-1.40	30.00	Pass
HT20	MCS0	1	140	5700	0.64	13.88	23.88	-1.40	29.88	Pass
HT40	MCS0	1	102	5510	1.18	11.56	23.98	-1.40	30.00	Pass
HT40	MCS0	1	110	5550	1.18	13.64	23.98	-1.40	30.00	Pass
HT40	MCS0	1	134	5670	1.18	13.52	23.98	-1.40	30.00	Pass

Note:

1. Final Output Power equals to Measured Output Power adds the duty factor.
2. For the 5250-5350 MHz and 5470-5600 MHz and 5650-5725 MHz bands, the maximum conducted output power shall not exceed the lesser of 250 mW (24dBm) or 11 dBm + 10log (B), where B is 26dB BW for FCC and 99% OBW for IC.

3.3 Power Spectral Density Measurement

3.3.1 Limit of Power Spectral Density

For the band 5150-5250 MHz, the peak power spectral density shall not exceed 4 dBm in any 1-MHz band.

For the bands 5250-5350 MHz and 5470-5600 and 5650-5725 MHz, the peak power spectral density shall not exceed 11 dBm in any 1-MHz band.

For the band 5725-5825 MHz, the peak power spectral density shall not exceed 17 dBm in any 1-MHz band.

If transmitting antenna directional gain is greater than 6 dBi, both the maximum conducted output power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

3.3.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.3.3 Test Procedures

The testing follows FCC KDB 789033 D01 General UNII Test Procedures v01r03.

Section F) Peak power spectral density (PPSD).

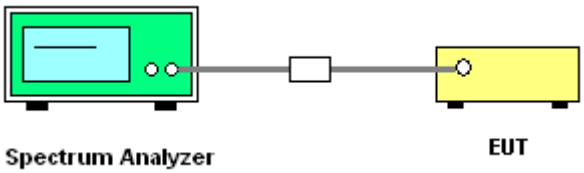
Note: Though the rule refers to “peak power spectral density”, the intent is to measure the maximum value of the time average of the power spectral density measured during a period of continuous transmission.

 # Method SA-2 #

(trace averaging across on and off times of the EUT transmissions, followed by duty cycle correction).

1. The testing follows Method SA-2 of FCC KDB 789033 D01 General UNII Test Procedures v01r03.
   - Measure the duty cycle.
   - Set span to encompass the entire emission bandwidth (EBW) of the signal.
   - Set RBW = 1 MHz.
   - Set VBW ≥ 3 MHz.
   - Number of points in sweep ≥ 2 Span / RBW.
   - Sweep time = auto.
   - Detector = RMS
   - Trace average at least 100 traces in power averaging mode.
   - Add 10 log(1/x), where x is the duty cycle, to the measured power in order to compute the average power during the actual transmission times. For example, add 10 log(1/0.25) = 6 dB if the duty cycle is 25 percent.
2. The RF output of EUT was connected to the spectrum analyzer by a low loss cable.
3. Each plot has already offset with cable loss, and attenuator loss. Measure the PPSD and record it.

3.3.4 Test Setup



3.3.5 Test Result of Power Spectral Density

Test Band :	5GHz band 1	Temperature :	21~26℃
Test Engineer :	Kenny Chen	Relative Humidity :	45~54%

Mod.	Data Rate	N_{TX}	CH	Freq. (MHz)	Duty Factor (dB)	Average Power Density (dBm/MHz)	Average PSD Limit (dBm)	DG (dBi)	EIRP PSD Limit (dBm)	Pass/Fail
11a	6Mbps	1	36	5180	0.59	1.07	4.00	-1.40	10	Pass
11a	6Mbps	1	44	5220	0.59	1.44	4.00	-1.40	10	Pass
11a	6Mbps	1	48	5240	0.59	1.42	4.00	-1.40	10	Pass
HT20	MCS0	1	36	5180	0.64	1.48	4.00	-1.40	10	Pass
HT20	MCS0	1	44	5220	0.64	1.72	4.00	-1.40	10	Pass
HT20	MCS0	1	48	5240	0.64	1.53	4.00	-1.40	10	Pass
HT40	MCS0	1	38	5190	1.18	-1.08	4.00	-1.40	10	Pass
HT40	MCS0	1	46	5230	1.18	-1.17	4.00	-1.40	10	Pass

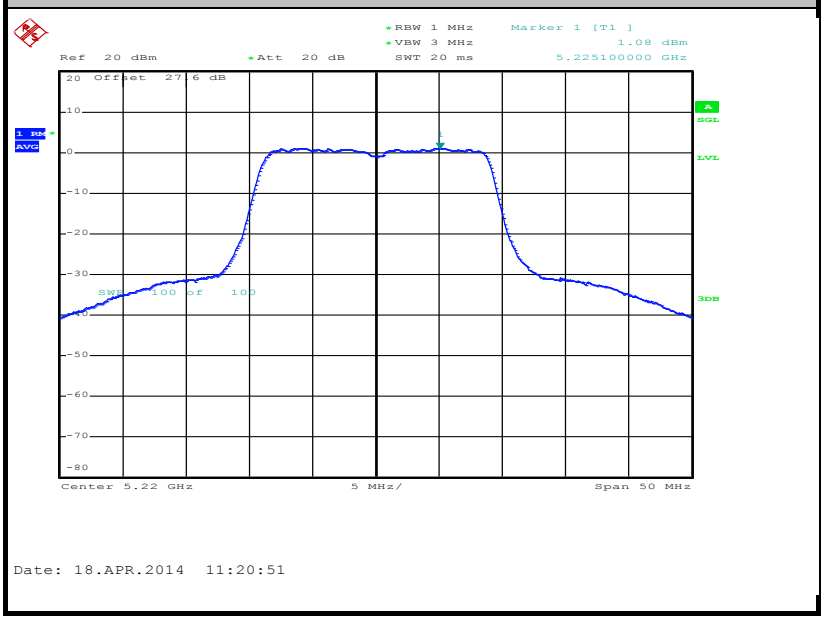
Test Band :	5GHz band 2	Temperature :	21~26℃
Test Engineer :	Kenny Chen	Relative Humidity :	45~54%

Mod.	Data Rate	N_{TX}	CH	Freq. (MHz)	Duty Factor (dB)	Average Power Density (dBm/MHz)	Average PSD Limit (dBm)	DG (dBi)	Pass/Fail
11a	6Mbps	1	52	5260	0.59	1.63	11.00	-1.50	Pass
11a	6Mbps	1	60	5300	0.59	1.98	11.00	-1.50	Pass
11a	6Mbps	1	64	5320	0.59	1.81	11.00	-1.50	Pass
HT20	MCS0	1	52	5260	0.64	1.82	11.00	-1.50	Pass
HT20	MCS0	1	60	5300	0.64	2.18	11.00	-1.50	Pass
HT20	MCS0	1	64	5320	0.64	2.00	11.00	-1.50	Pass
HT40	MCS0	1	54	5270	1.18	-0.73	11.00	-1.50	Pass
HT40	MCS0	1	62	5310	1.18	-1.71	11.00	-1.50	Pass

Test Band :	5GHz band 3	Temperature :	21~26℃
Test Engineer :	Kenny Chen	Relative Humidity :	45~54%

Mod.	Data Rate	N_{TX}	CH	Freq. (MHz)	Duty Factor (dB)	Average Power Density (dBm/MHz)	Average PSD Limit (dBm)	DG (dBi)	Pass/Fail
11a	6Mbps	1	100	5500	0.59	2.62	11.00	-1.40	Pass
11a	6Mbps	1	116	5580	0.59	3.38	11.00	-1.40	Pass
11a	6Mbps	1	140	5700	0.59	2.17	11.00	-1.40	Pass
HT20	MCS0	1	100	5500	0.64	3.67	11.00	-1.40	Pass
HT20	MCS0	1	116	5580	0.64	3.87	11.00	-1.40	Pass
HT20	MCS0	1	140	5700	0.64	2.08	11.00	-1.40	Pass
HT40	MCS0	1	102	5510	1.18	-2.64	11.00	-1.40	Pass
HT40	MCS0	1	110	5550	1.18	1.24	11.00	-1.40	Pass
HT40	MCS0	1	134	5670	1.18	1.24	11.00	-1.40	Pass

Worst Case Power Spectral Density(dBm/MHz)



Note:

1. Average Power Density (dB) = Measured value+ Duty Factor
2. The total loss is 27.6 dB of the RF cable and attenuator, and has been compensated to the spectrum analyzer offset.

3.4 Peak Excursion Ratio Measurement

3.4.1 Limit of Peak Excursion Ratio

The ratio of the peak excursion of the modulation envelope (measured using a peak hold function) to the maximum conducted output power (measured as specified above) shall not exceed 13 dB across any 1 MHz bandwidth or the emission bandwidth whichever is less.

3.4.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.4.3 Test Procedures

The testing follows FCC KDB 789033 D01 General UNII Test Procedures v01r03.

Section G) Peak excursion measurement

1. The transmitter output is connected to the spectrum analyzer.
2. Set the spectrum analyzer span to view the entire emission bandwidth.
3. Find the maximum of the peak-max-hold spectrum.

   *Set RBW = 1MHz.

   *Set VBW ≥ 3MHz.

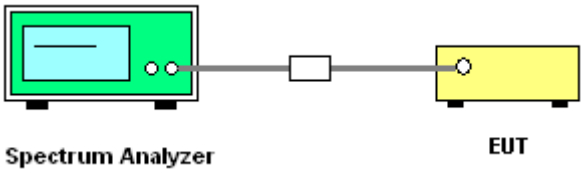
   *Detector = peak.

   *Trace mode = max-hold.

   *Allow the sweeps to continue until the trace stabilizes.

   *Use the peak search function to find the peak of the spectrum.
4. Use the procedure found under section 3.3 to measure the PPSD.
5. Compute the ratio of the maximum of the peak-max-hold spectrum to the PPSD.

3.4.4 Test Setup



3.4.5 Test Result of Peak Excursion Ratio

Test Band :	5GHz band 1,2,3	Temperature :	21~26℃
Test Engineer :	Kenny Chen	Relative Humidity :	45~54%

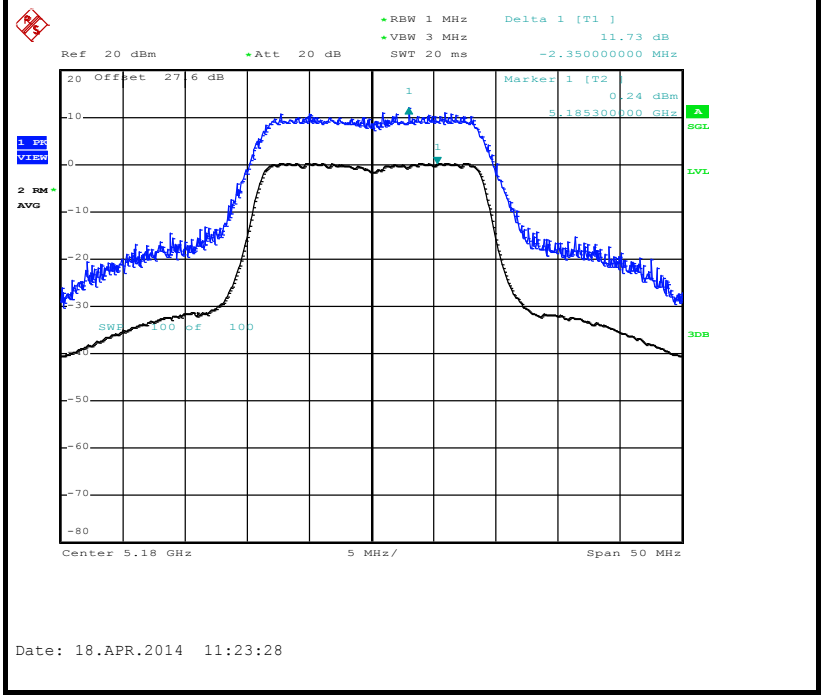
Mod.	N_{TX}	Channel	Freq. (MHz)	Peak Excursion Ratio (dB)					Max. Limits (dB)	Pass/Fail
				BPSK	QPSK	16QAM	64QAM	256QAM		
11a	1	36	5180	8.77	10.00	9.61	9.40	-	13	Pass
HT20	1	36	5180	9.16	10.59	10.29	9.37	-	13	Pass
HT40	1	38	5230	8.79	9.25	9.25	8.97	-	13	Pass

Mod.	N_{TX}	Channel	Freq. (MHz)	Peak Excursion Ratio (dB)					Max. Limits (dB)	Pass/Fail
				BPSK	QPSK	16QAM	64QAM	256QAM		
11a	1	52	5260	10.26	9.54	9.95	9.58	-	13	Pass
HT20	1	52	5260	8.92	9.06	10.27	9.75	-	13	Pass
HT40	1	54	5270	8.89	9.10	8.50	8.80	-	13	Pass

Mod.	N_{TX}	Channel	Freq. (MHz)	Peak Excursion Ratio (dB)					Max. Limits (dB)	Pass/Fail
				BPSK	QPSK	16QAM	64QAM	256QAM		
11a	1	100	5500	9.08	9.24	8.76	9.35	-	13	Pass
HT20	1	100	5500	9.18	9.02	9.47	9.89	-	13	Pass
HT40	1	102	5510	8.83	10.08	9.24	9.24	-	13	Pass

Note: All modulation measured based on the minimum data rate setting.

Worst Case Peak Excursion Ratio (dB)



Note: Peak Excursion Ratio (dB) = Peak – (Average + Duty Cycle Offset)

Duty Cycle Offset: 1.14dB

3.5 Unwanted Radiated Emission Measurement

This section as specified in FCC Part 15.407(b) is to measure unwanted emissions through radiated measurement for band edge spurious emissions and out of band emissions measurement. The unwanted emissions shall comply with 15.407(b)(1) to (6), and restricted bands per FCC Part15.205.

3.5.1 Limit of Unwanted Emissions

(1) For transmitters operating in the 5150-5250 MHz band: all emissions outside of the 5150-5350 MHz band shall not exceed an EIRP of –27dBm/MHz.

For transmitters operating in the 5250-5350 MHz band: all emissions outside of the 5150-5350 MHz band shall not exceed an EIRP of -27 dBm/MHz. Devices operating in the 5250-5350 MHz band that generate emissions in the 5150-5250 MHz band must meet all applicable technical requirements for operation in the 5150-5250 MHz band (including indoor use) or alternatively meet an out-of-band emission EIRP limit of -27 dBm/MHz in the 5150-5250 MHz band.

For transmitters operating in the 5470-5600 MHz and 5650-5725MHz band: all emissions outside of the 5470-5600 MHz and 5650-5725MHz band shall not exceed an EIRP of -27 dBm/MHz.

(2) Unwanted spurious emissions fallen in restricted bands per FCC Part15.205 shall comply with the general field strength limits set forth in § 15.209 as below table,

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

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

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

(3) KDB789033 v01r03 H)2)c)(i) As specified in 15.407(b), emissions above 1000 MHz that are outside of the restricted bands are subject to a peak emission limit of -27 dBm/MHz (or -17 dBm/MHz as specified in 15.407(b)(4)). However, an out-of-band emission that complies with both the average and peak limits of 15.209 is not required to satisfy the -27 dBm/MHz or -17 dBm/MHz peak emission limit.

3.5.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.5.3 Test Procedures

1. The testing follows FCC KDB 789033 D01 General UNII Test Procedures v01r03. Section H) Unwanted emissions measurement.

   (1) Procedure for Unwanted Emissions Measurements Below 1000MHz

   - RBW = 120 kHz
   - VBW = 300 kHz
   - Detector = Peak
   - Trace mode = max hold

   (2) Procedure for Peak Unwanted Emissions Measurements Above 1000 MHz

   - The setting follows the H) 5) of FCC KDB 789033.
   - RBW = 1 MHz
   - VBW ≥ 3 MHz
   - Detector = Peak
   - Sweep time = auto
   - Trace mode = max hold

   (3) Procedures for Average Unwanted Emissions Measurements Above 1000MHz

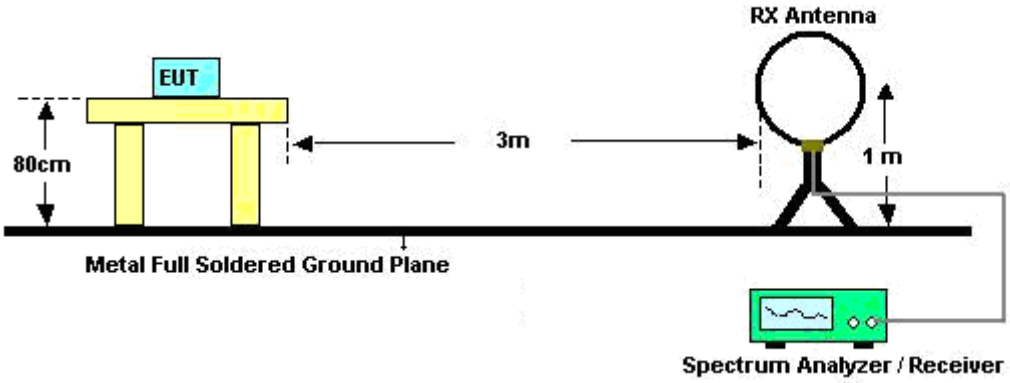
   - The setting follows H) 6) of FCC KDB 789033.
   - RBW = 1 MHz
   - VBW = 10 Hz, when duty cycle is no less than 98 percent.
   - VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

Band	Duty Cycle(%)	T(μs)	1/T(kHz)	VBW Setting
802.11a	87.26	1370	0.73	1kHz
802.11n HT20	86.39	1270	0.79	1kHz
802.11n HT40	76.26	636	1.57	3kHz

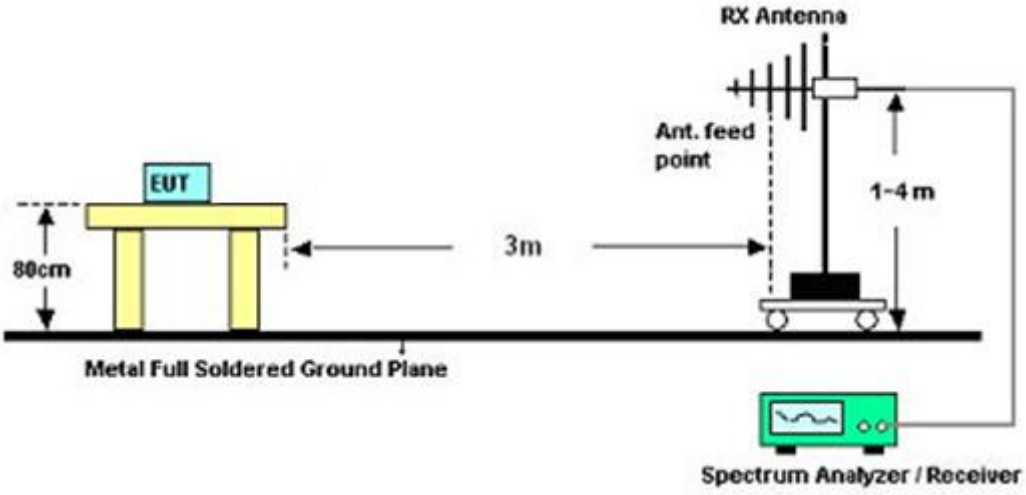
2. The EUT was placed on a rotatable table top 0.8 meter above ground.
3. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
4. The antenna is a broadband antenna and its height is adjusted between one meter and four meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
5. For each suspected emission, the EUT was arranged to its worst case and then adjust the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
6. For testing below 1GHz, if the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then peak values of EUT will be reported, otherwise, the emissions will be repeated one by one using the CISPR quasi-peak method and reported.
7. For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than average limit (that means the emission level in average mode also complies with the limit in average mode), then peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.

3.5.4 Test Setup

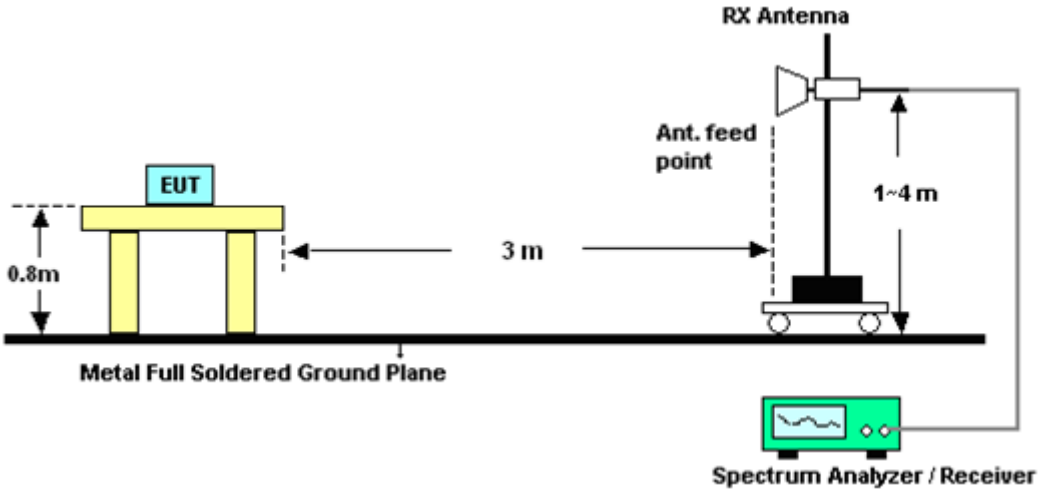
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



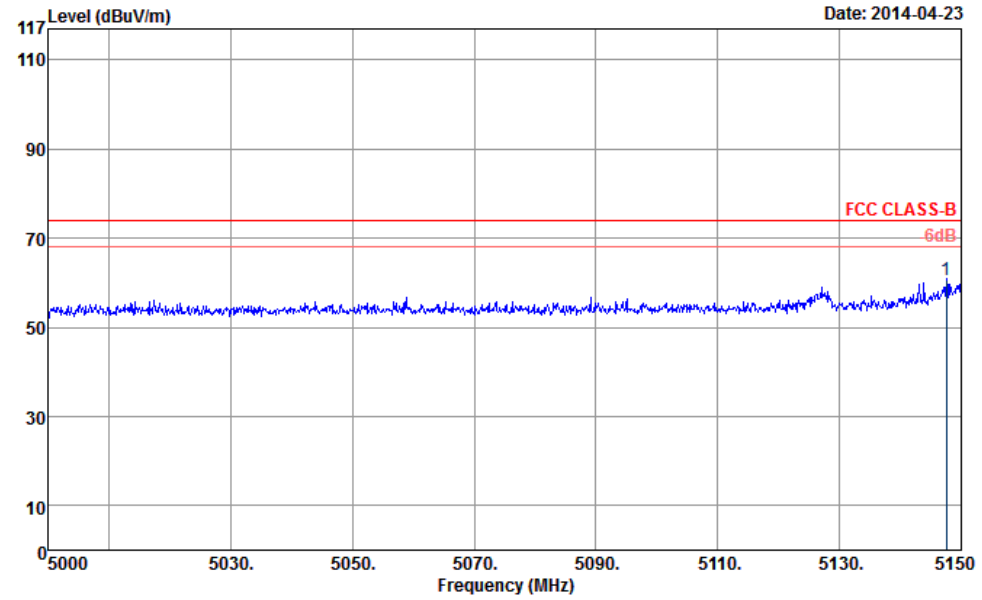
3.5.5 Test Results of Radiated Emissions (9 kHz ~ 30 MHz)

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line per 15.31(o) was not reported.

3.5.6 Test Result

3.5.6.1 Test Result of Radiated Band Edges

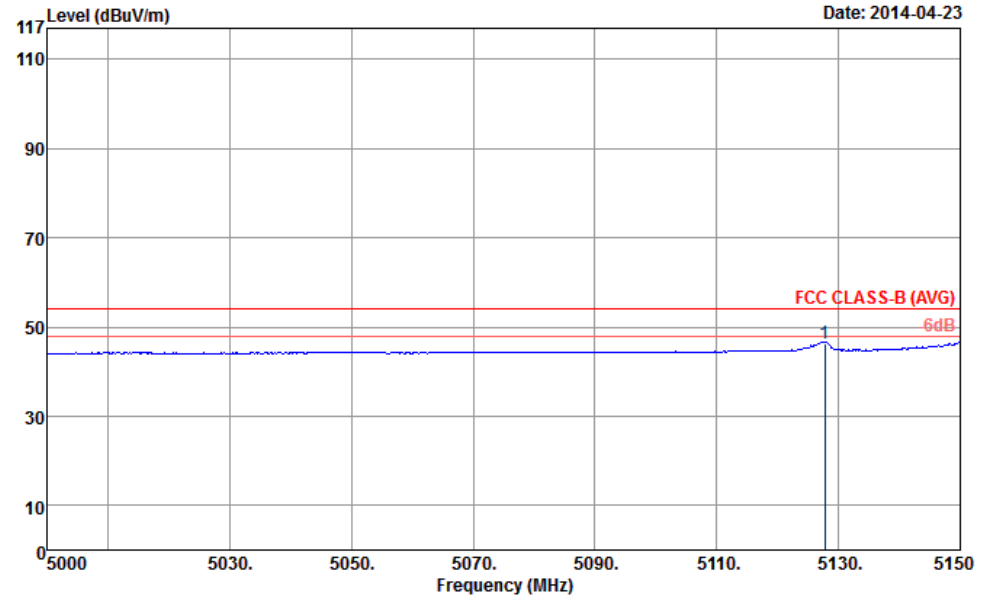
Test Mode :	802.11a	Temperature :	24~25℃
Test Band :	Low	Relative Humidity :	46~47%
Test Channel :	36	Test Engineer :	Gavin Wu



ANTENNA POLARITY : HORIZONTAL										
Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5147.6	60.56	-13.44	74	49.66	34.45	10.44	33.99	100	355	Peak

Note: Worst case measurement on 5147.6 MHz is compliance with 74/54 dBuV/m (peak/average) limit and band edge measurement in the restricted band 5000-5150MHz. The test result is compliance with the FCC limit line.

Test Mode :	802.11a	Temperature :	24~25℃
Test Band :	Low	Relative Humidity :	46~47%
Test Channel :	36	Test Engineer :	Gavin Wu

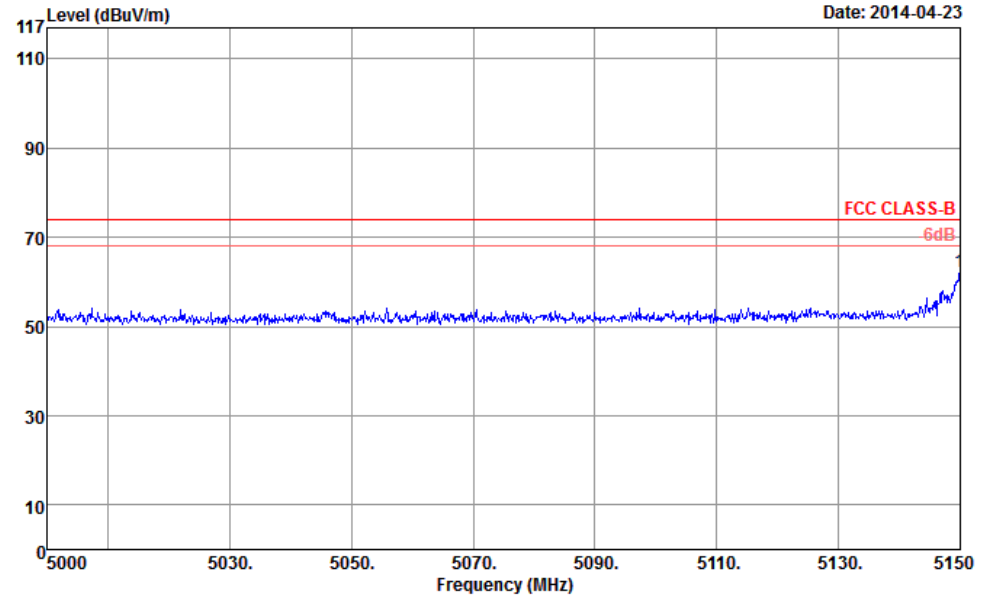


ANTENNA POLARITY : HORIZONTAL

Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5127.8	46.33	-7.67	54	35.49	34.43	10.4	33.99	100	355	Average

Note: Worst case measurement on 5127.8 MHz is compliance with 74/54 dBuV/m (peak/average) limit and band edge measurement in the restricted band 5000-5150MHz. The test result is compliance with the FCC limit line.

Test Mode :	802.11a	Temperature :	24~25℃
Test Band :	Low	Relative Humidity :	46~47%
Test Channel :	36	Test Engineer :	Gavin Wu



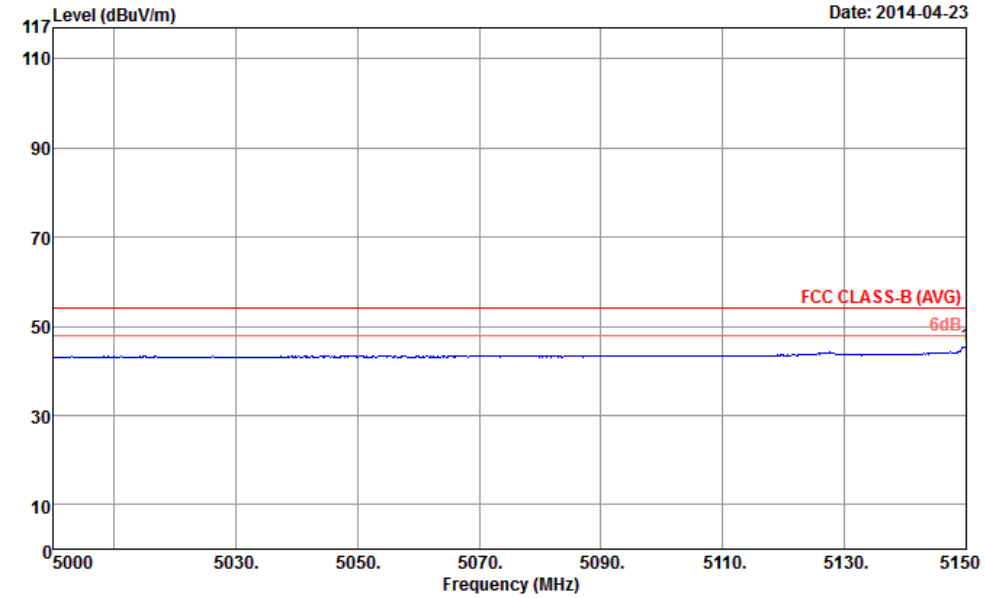
Site : 03CH06-HY
Condition : FCC CLASS-B 3m HF-ANT_583_130802 VERTICAL

ANTENNA POLARITY : VERTICAL

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5150	62.24	-11.76	74	51.34	34.45	10.44	33.99	112	105	Peak

Note: Worst case measurement on 5150 MHz is compliance with 74/54 dBuV/m (peak/average) limit and band edge measurement in the restricted band 5000-5150MHz. The test result is compliance with the FCC limit line.

Test Mode :	802.11a	Temperature :	24~25℃
Test Band :	Low	Relative Humidity :	46~47%
Test Channel :	36	Test Engineer :	Gavin Wu

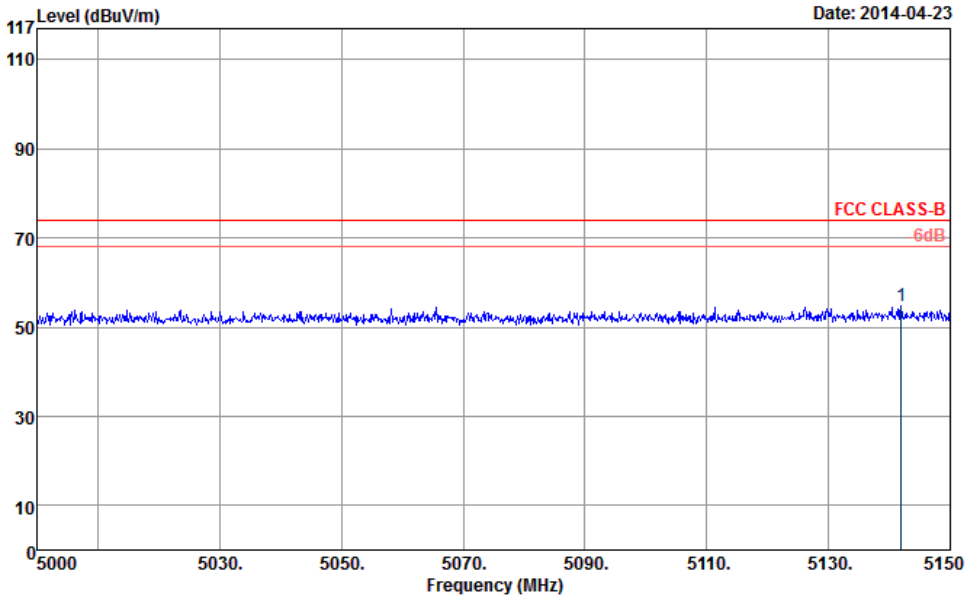


ANTENNA POLARITY : VERTICAL

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5150	45.56	-8.44	54	34.66	34.45	10.44	33.99	112	105	Average

Note: Worst case measurement on 5150 MHz is compliance with 74/54 dBuV/m (peak/average) limit and band edge measurement in the restricted band 5000-5150MHz. The test result is compliance with the FCC limit line.

Test Mode :	802.11a	**Temperature :**	24~25℃
Test Band :	High	**Relative Humidity :**	46~47%
Test Channel :	48	**Test Engineer :**	Gavin Wu



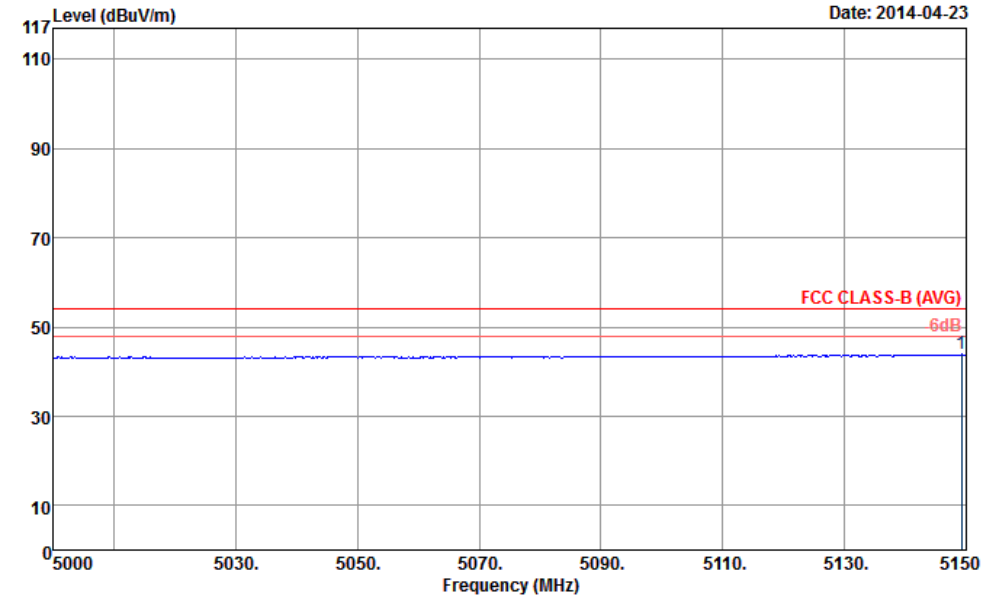
Site : 03CH06-HY
Condition : FCC CLASS-B 3m HF-ANT_583_130802 HORIZONTAL

ANTENNA POLARITY : HORIZONTAL

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5141.9	54.69	-19.31	74	43.79	34.45	10.44	33.99	100	355	Peak

Note: Worst case measurement on 5141.9 MHz is compliance with 74/54 dBuV/m (peak/average) limit and band edge measurement in the restricted band 5000-5150MHz. The test result is compliance with the FCC limit line.

Test Mode :	802.11a	Temperature :	24~25℃
Test Band :	High	Relative Humidity :	46~47%
Test Channel :	48	Test Engineer :	Gavin Wu

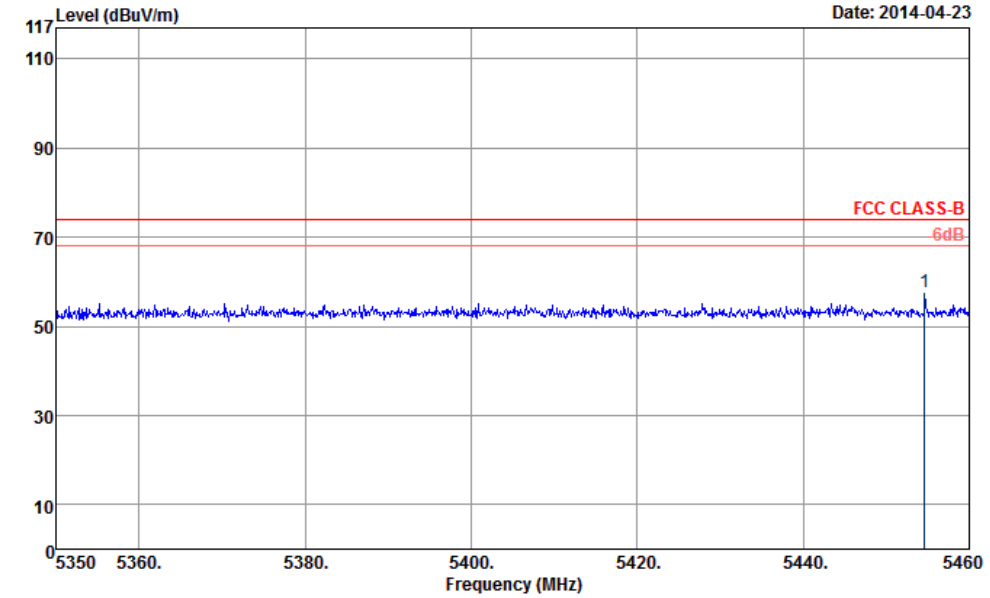


ANTENNA POLARITY : HORIZONTAL

Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5149.25	43.85	-10.15	54	32.95	34.45	10.44	33.99	100	355	Average

Note: Worst case measurement on 5149.25 MHz is compliance with 74/54 dBuV/m (peak/average) limit and band edge measurement in the restricted band 5000-5150MHz. The test result is compliance with the FCC limit line.

Test Mode :	802.11a	Temperature :	24~25℃
Test Band :	High	Relative Humidity :	46~47%
Test Channel :	48	Test Engineer :	Gavin Wu

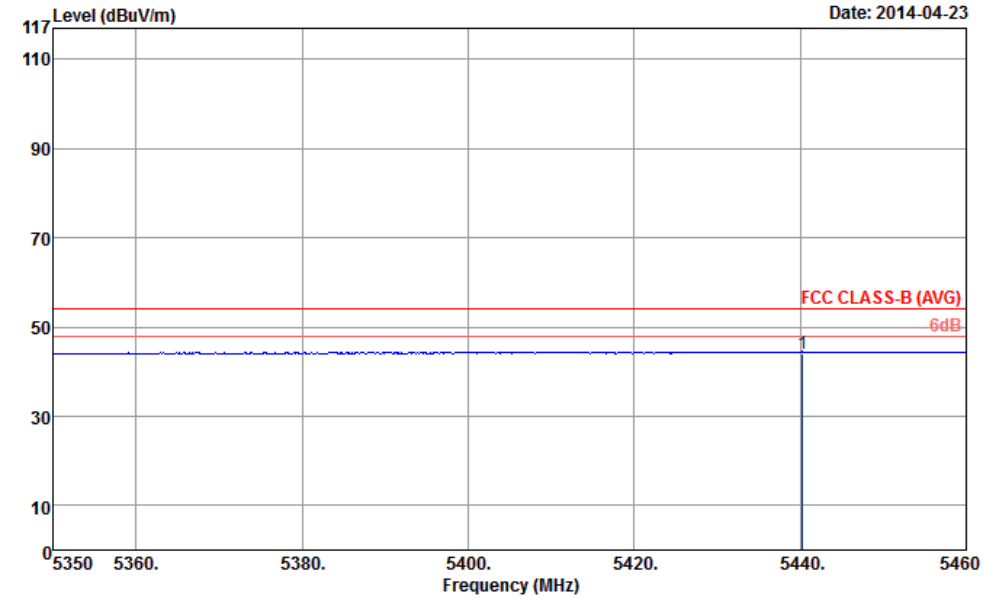


ANTENNA POLARITY : HORIZONTAL

Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5454.61	57.63	-16.37	74	45.97	34.75	10.89	33.98	100	355	Peak

Note: Worst case measurement on 5454.61 MHz is compliance with 74/54 dBuV/m (peak/average) limit and band edge measurement in the restricted band 5350-5460MHz. The test result is compliance with the FCC limit line.

Test Mode :	802.11a	Temperature :	24~25℃
Test Band :	High	Relative Humidity :	46~47%
Test Channel :	48	Test Engineer :	Gavin Wu

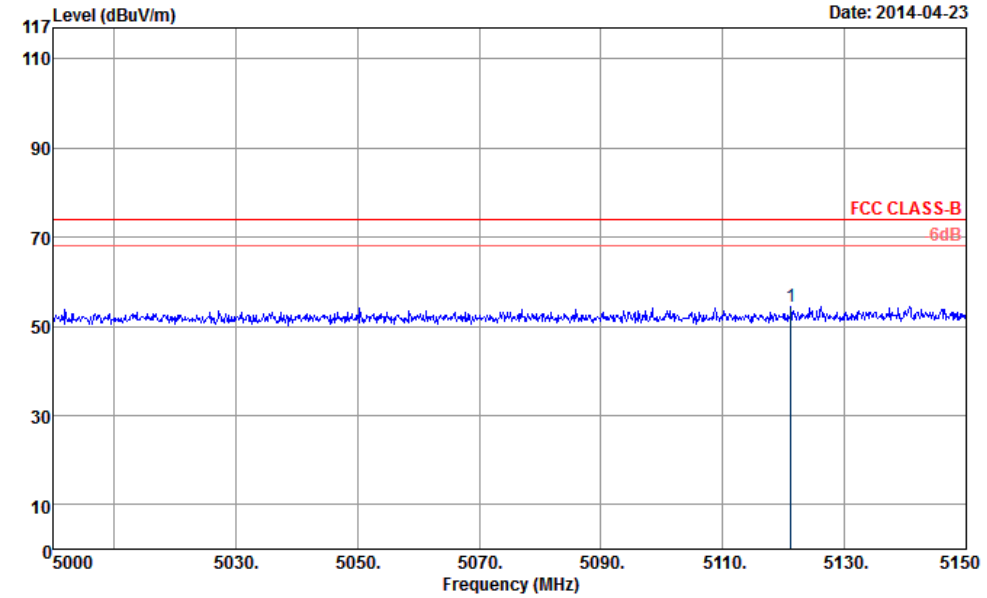


ANTENNA POLARITY : HORIZONTAL

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5440.31	44.12	-9.88	54	32.51	34.73	10.86	33.98	100	355	Average

Note: Worst case measurement on 5440.31 MHz is compliance with 74/54 dBuV/m (peak/average) limit and band edge measurement in the restricted band 5350-5460MHz. The test result is compliance with the FCC limit line.

Test Mode :	802.11a	Temperature :	24~25℃
Test Band :	High	Relative Humidity :	46~47%
Test Channel :	48	Test Engineer :	Gavin Wu

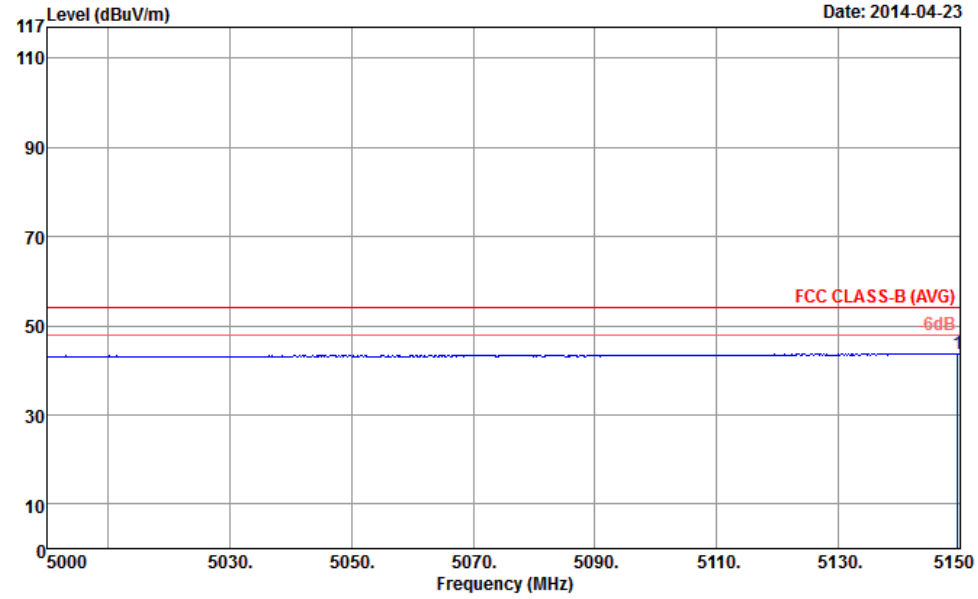


ANTENNA POLARITY : VERTICAL

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5121.2	54.56	-19.44	74	43.73	34.42	10.4	33.99	200	105	Peak

Note: Worst case measurement on 5121.2 MHz is compliance with 74/54 dBuV/m (peak/average) limit and band edge measurement in the restricted band 5000-5150MHz. The test result is compliance with the FCC limit line.

Test Mode :	802.11a	Temperature :	24~25℃
Test Band :	High	Relative Humidity :	46~47%
Test Channel :	48	Test Engineer :	Gavin Wu



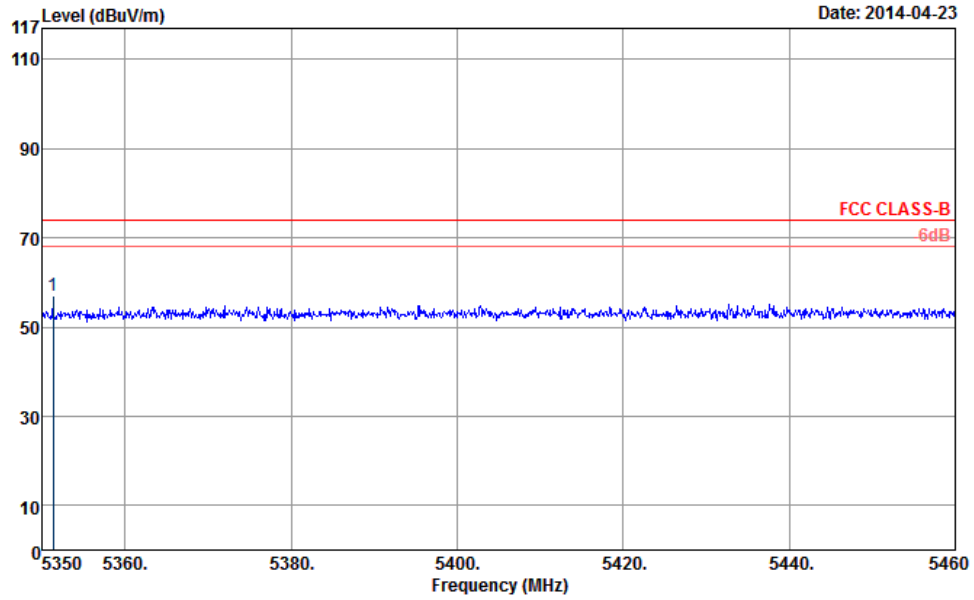
Site : 03CH06-HY
Condition : FCC CLASS-B (AVG) 3m HF-ANT_583_130802 VERTICAL

ANTENNA POLARITY : VERTICAL

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5149.55	43.72	-10.28	54	32.82	34.45	10.44	33.99	200	105	Average

Note: Worst case measurement on 5149.55 MHz is compliance with 74/54 dBuV/m (peak/average) limit and band edge measurement in the restricted band 5000-5150MHz. The test result is compliance with the FCC limit line.

Test Mode :	802.11a	**Temperature :**	24~25℃
Test Band :	High	**Relative Humidity :**	46~47%
Test Channel :	48	**Test Engineer :**	Gavin Wu



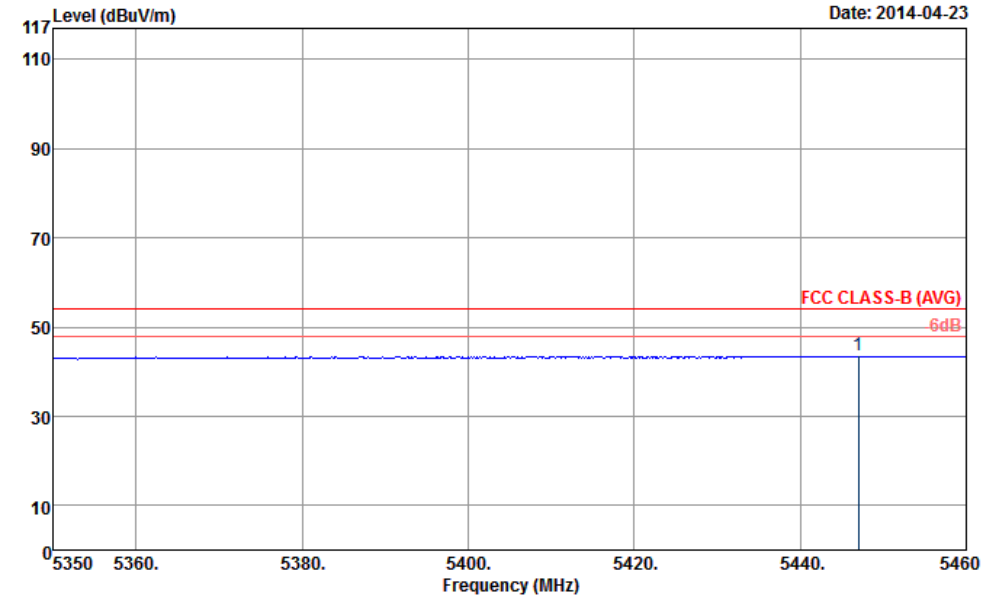
Site : 03CH06-HY
Condition : FCC CLASS-B 3m HF-ANT_583_130802 VERTICAL

ANTENNA POLARITY : VERTICAL

Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5351.32	56.89	-17.11	74	45.5	34.65	10.72	33.98	200	105	Peak

Note: Worst case measurement on 5351.32 MHz is compliance with 74/54 dBuV/m (peak/average) limit and band edge measurement in the restricted band 5350-5460MHz. The test result is compliance with the FCC limit line.

Test Mode :	802.11a	Temperature :	24~25℃
Test Band :	High	Relative Humidity :	46~47%
Test Channel :	48	Test Engineer :	Gavin Wu

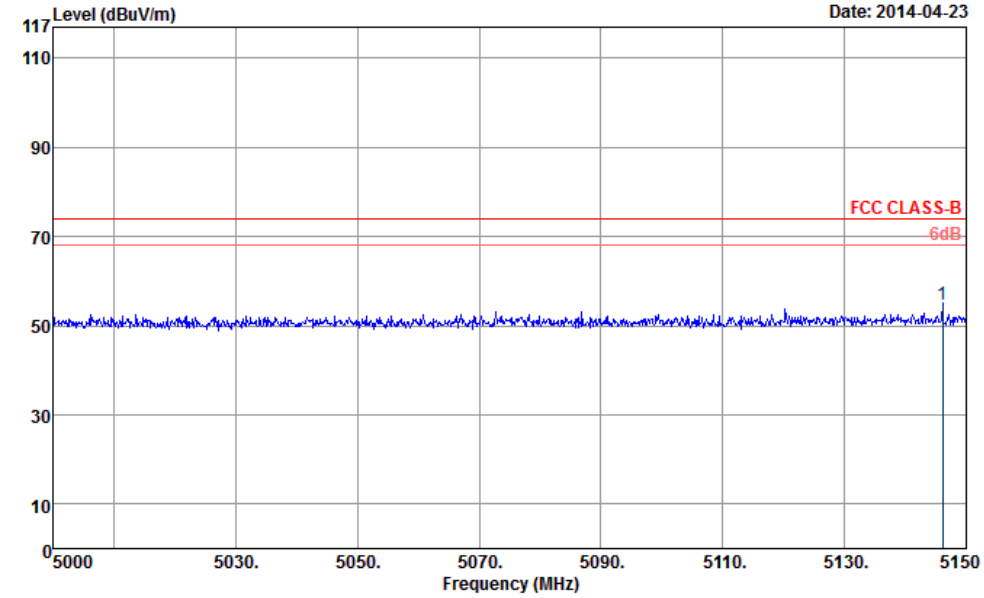


ANTENNA POLARITY : VERTICAL

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5447.02	43.57	-10.43	54	31.94	34.75	10.86	33.98	200	105	Average

Note: Worst case measurement on 5447.02 MHz is compliance with 74/54 dBuV/m (peak/average) limit and band edge measurement in the restricted band 5350-5460MHz. The test result is compliance with the FCC limit line.

Test Mode :	802.11a	Temperature :	24~25℃
Test Band :	Low	Relative Humidity :	46~47%
Test Channel :	52	Test Engineer :	Gavin Wu



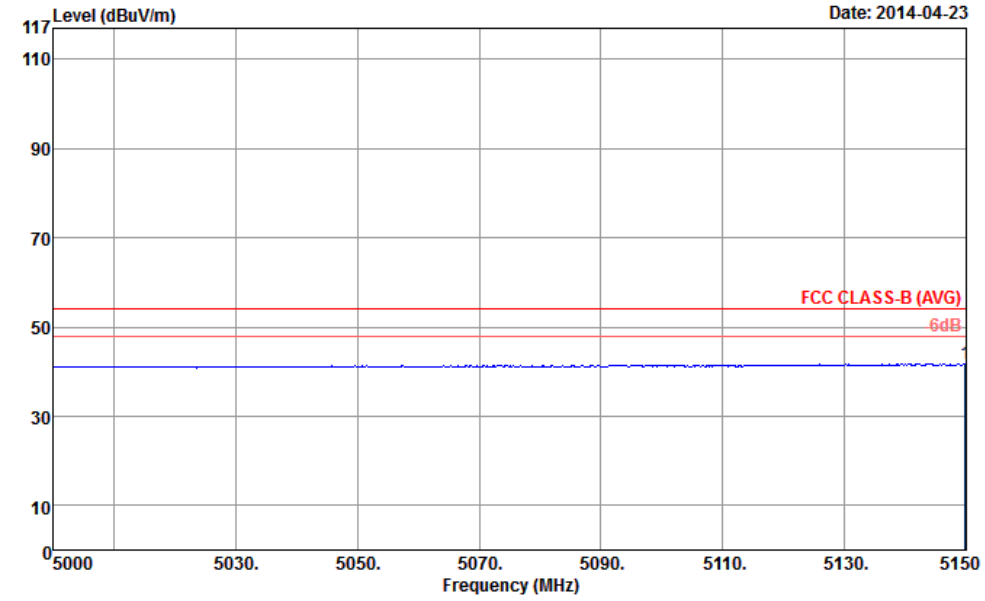
Site : 03CH06-HY
Condition : FCC CLASS-B 3m HF-ANT_583_130802 HORIZONTAL

ANTENNA POLARITY : HORIZONTAL

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5146.1	54.9	-19.1	74	44	34.45	10.44	33.99	100	345	Peak

Note: Worst case measurement on 5146.1 MHz is compliance with 74/54 dBuV/m (peak/average) limit and band edge measurement in the restricted band 5000-5150MHz. The test result is compliance with the FCC limit line.

Test Mode :	802.11a	Temperature :	24~25℃
Test Band :	Low	Relative Humidity :	46~47%
Test Channel :	52	Test Engineer :	Gavin Wu

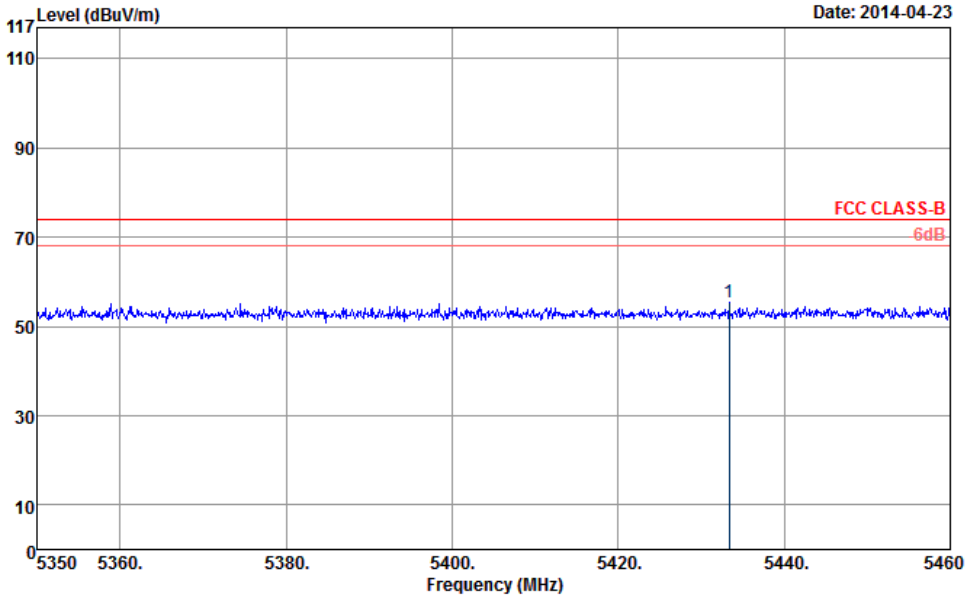


ANTENNA POLARITY : HORIZONTAL

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5149.85	41.66	-12.34	54	30.76	34.45	10.44	33.99	100	345	Average

Note: Worst case measurement on 5149.85 MHz is compliance with 74/54 dBuV/m (peak/average) limit and band edge measurement in the restricted band 5000-5150MHz. The test result is compliance with the FCC limit line.

Test Mode :	802.11a	**Temperature :**	24~25℃
Test Band :	Low	**Relative Humidity :**	46~47%
Test Channel :	52	**Test Engineer :**	Gavin Wu



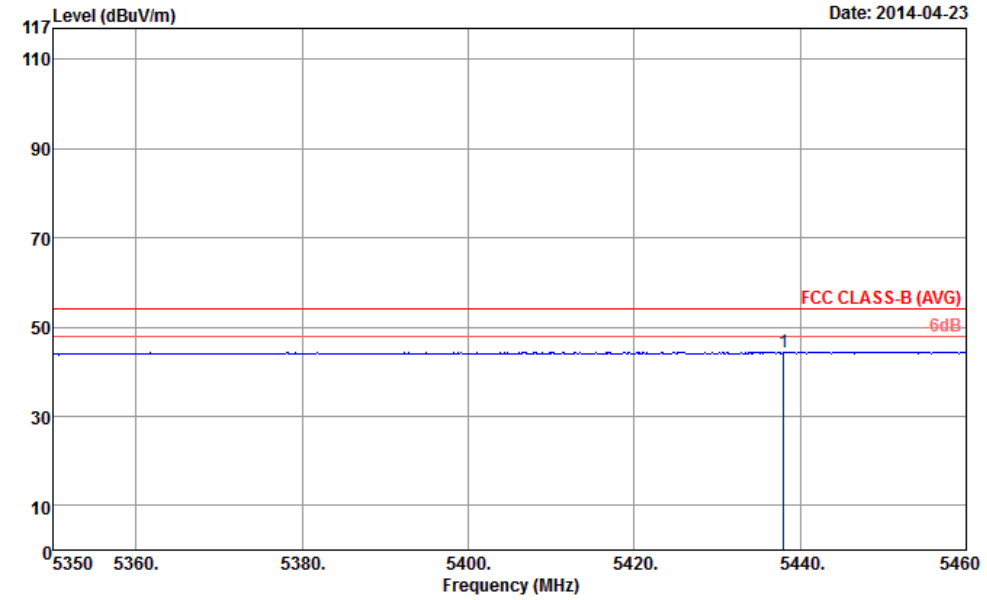
Site : 03CH06-HY
Condition : FCC CLASS-B 3m HF-ANT_583_130802 HORIZONTAL

ANTENNA POLARITY : HORIZONTAL

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5433.38	55.4	-18.6	74	43.79	34.73	10.86	33.98	100	345	Peak

Note: Worst case measurement on 5433.38 MHz is compliance with 74/54 dBuV/m (peak/average) limit and band edge measurement in the restricted band 5350-5460MHz. The test result is compliance with the FCC limit line.

Test Mode :	802.11a	Temperature :	24~25℃
Test Band :	Low	Relative Humidity :	46~47%
Test Channel :	52	Test Engineer :	Gavin Wu

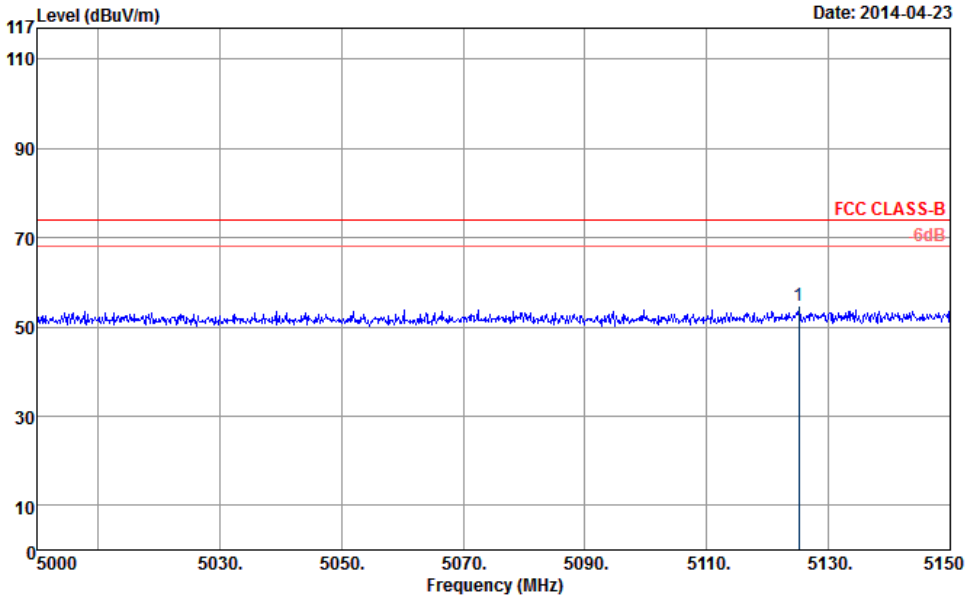


ANTENNA POLARITY : HORIZONTAL

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5438	44.38	-9.62	54	32.77	34.73	10.86	33.98	100	345	Average

Note: Worst case measurement on 5438 MHz is compliance with 74/54 dBuV/m (peak/average) limit and band edge measurement in the restricted band 5350-5460MHz. The test result is compliance with the FCC limit line.

Test Mode :	802.11a	Temperature :	24~25℃
Test Band :	Low	Relative Humidity :	46~47%
Test Channel :	52	Test Engineer :	Gavin Wu



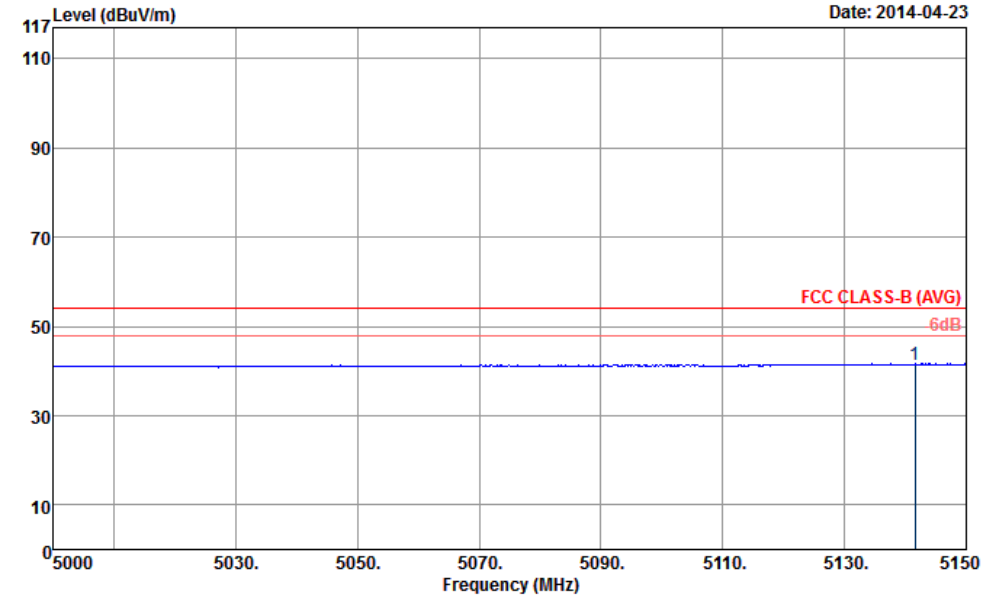
Site : 03CH06-HY
Condition : FCC CLASS-B 3m HF-ANT_583_130802 VERTICAL

ANTENNA POLARITY : VERTICAL

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5125.1	54.88	-19.12	74	44.04	34.43	10.4	33.99	100	91	Peak

Note: Worst case measurement on 5125.1 MHz is compliance with 74/54 dBuV/m (peak/average) limit and band edge measurement in the restricted band 5000-5150MHz. The test result is compliance with the FCC limit line.

Test Mode :	802.11a	Temperature :	24~25℃
Test Band :	Low	Relative Humidity :	46~47%
Test Channel :	52	Test Engineer :	Gavin Wu



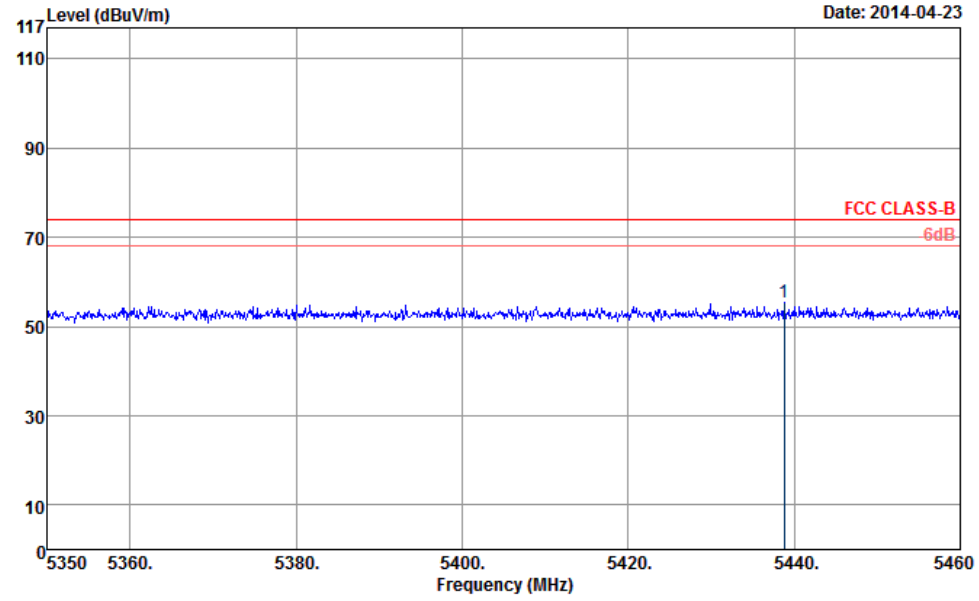
Site : 03CH06-HY
Condition : FCC CLASS-B (AVG) 3m HF-ANT_583_130802 VERTICAL

ANTENNA POLARITY : VERTICAL

Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5141.6	41.39	-12.61	54	30.49	34.45	10.44	33.99	100	91	Average

Note: Worst case measurement on 5141.6 MHz is compliance with 74/54 dBuV/m (peak/average) limit and band edge measurement in the restricted band 5000-5150MHz. The test result is compliance with the FCC limit line.

Test Mode :	802.11a	Temperature :	24~25℃
Test Band :	Low	Relative Humidity :	46~47%
Test Channel :	52	Test Engineer :	Gavin Wu

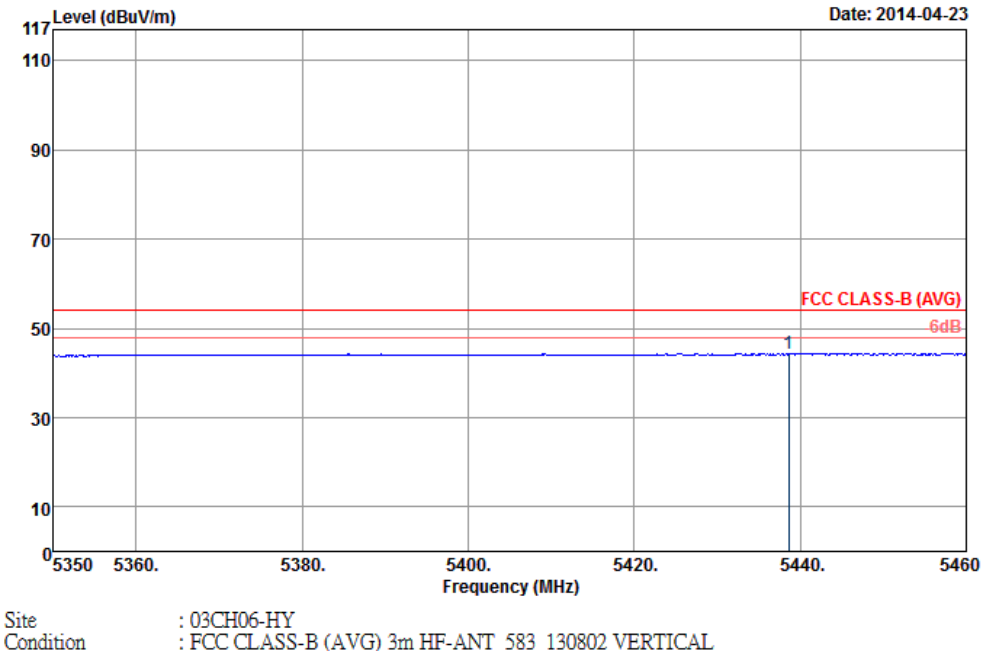


ANTENNA POLARITY : VERTICAL

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5438.77	55.26	-18.74	74	43.65	34.73	10.86	33.98	100	91	Peak

Note: Worst case measurement on 5438.77 MHz is compliance with 74/54 dBuV/m (peak/average) limit and band edge measurement in the restricted band 5350-5460MHz. The test result is compliance with the FCC limit line.

Test Mode :	802.11a	Temperature :	24~25℃
Test Band :	Low	Relative Humidity :	46~47%
Test Channel :	52	Test Engineer :	Gavin Wu

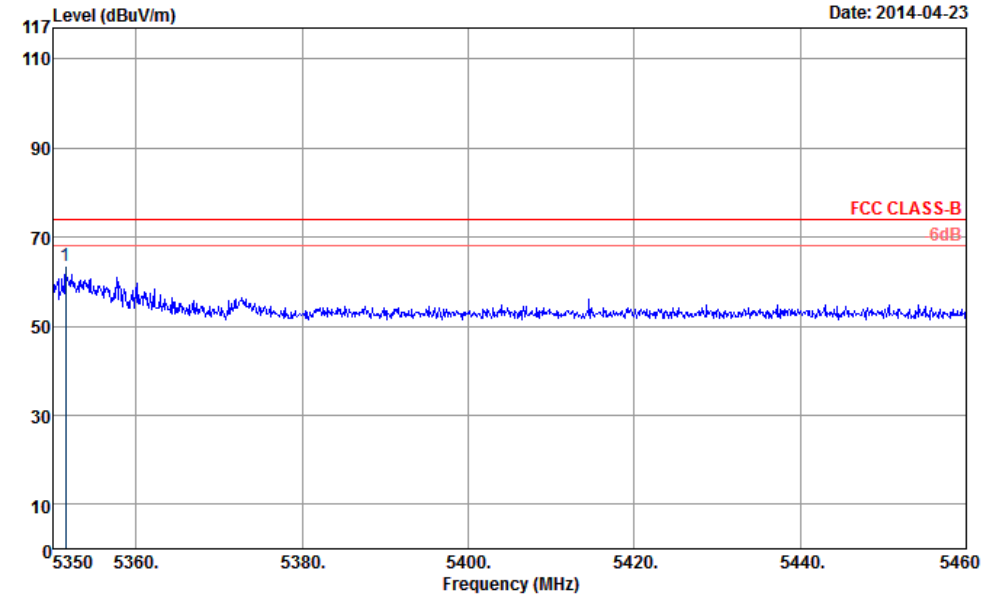


ANTENNA POLARITY : VERTICAL

Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5438.66	44.39	-9.61	54	32.78	34.73	10.86	33.98	100	91	Average

Note: Worst case measurement on 5438.66 MHz is compliance with 74/54 dBuV/m (peak/average) limit and band edge measurement in the restricted band 5350-5460MHz. The test result is compliance with the FCC limit line.

Test Mode :	802.11a	Temperature :	24~25℃
Test Band :	High	Relative Humidity :	46~47%
Test Channel :	64	Test Engineer :	Gavin Wu

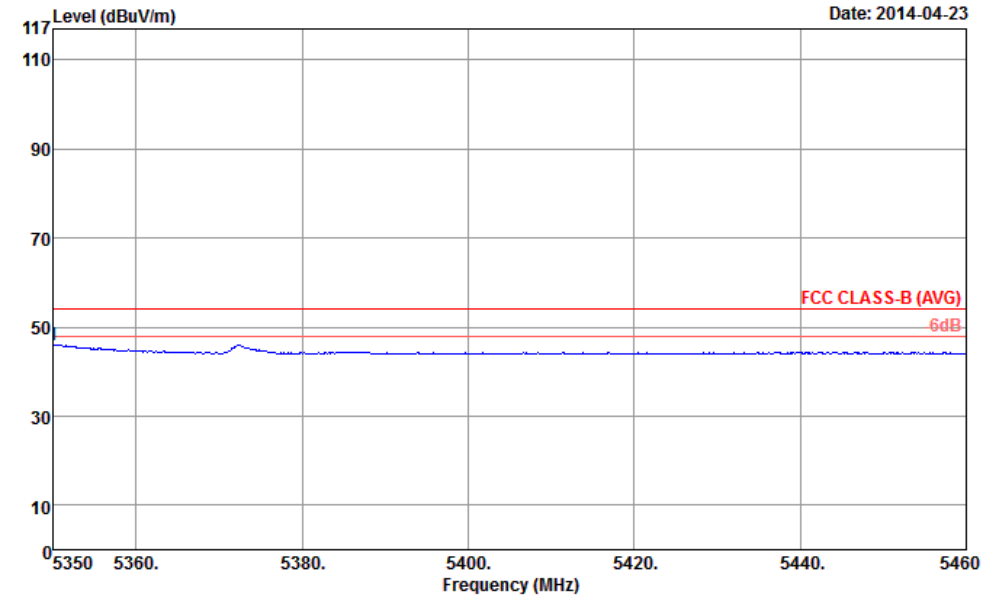


ANTENNA POLARITY : HORIZONTAL

Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5351.54	63.7	-10.3	74	52.31	34.65	10.72	33.98	100	348	Peak

Note: Worst case measurement on 5351.54 MHz is compliance with 74/54 dBuV/m (peak/average) limit and band edge measurement in the restricted band 5350-5460MHz. The test result is compliance with the FCC limit line.

Test Mode :	802.11a	Temperature :	24~25℃
Test Band :	High	Relative Humidity :	46~47%
Test Channel :	64	Test Engineer :	Gavin Wu

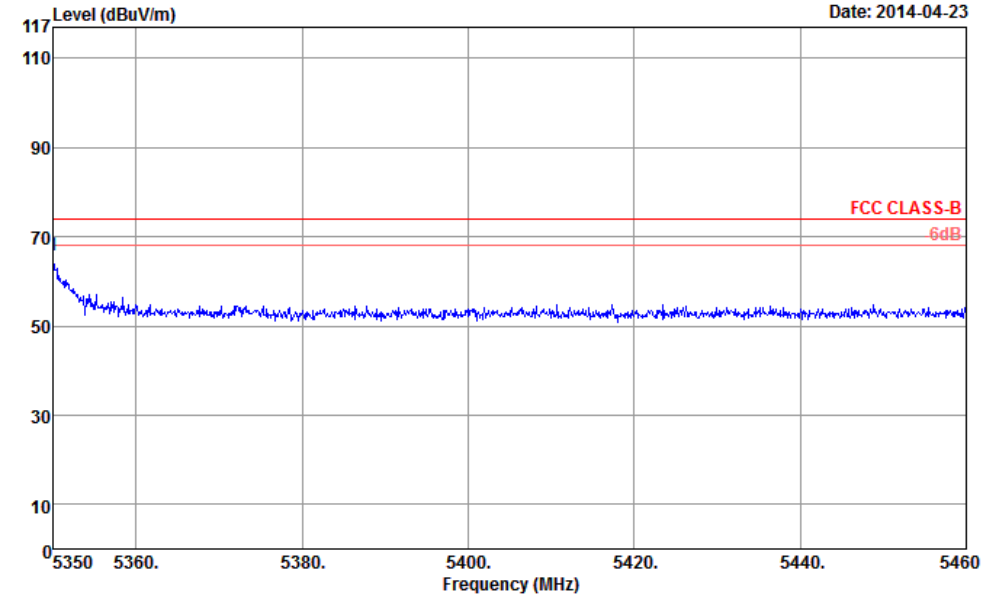


ANTENNA POLARITY : HORIZONTAL

Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5350	46.09	-7.91	54	34.7	34.65	10.72	33.98	100	348	Average

Note: Worst case measurement on 5350 MHz is compliance with 74/54 dBuV/m (peak/average) limit and band edge measurement in the restricted band 5350-5460MHz. The test result is compliance with the FCC limit line.

Test Mode :	802.11a	Temperature :	24~25℃
Test Band :	High	Relative Humidity :	46~47%
Test Channel :	64	Test Engineer :	Gavin Wu



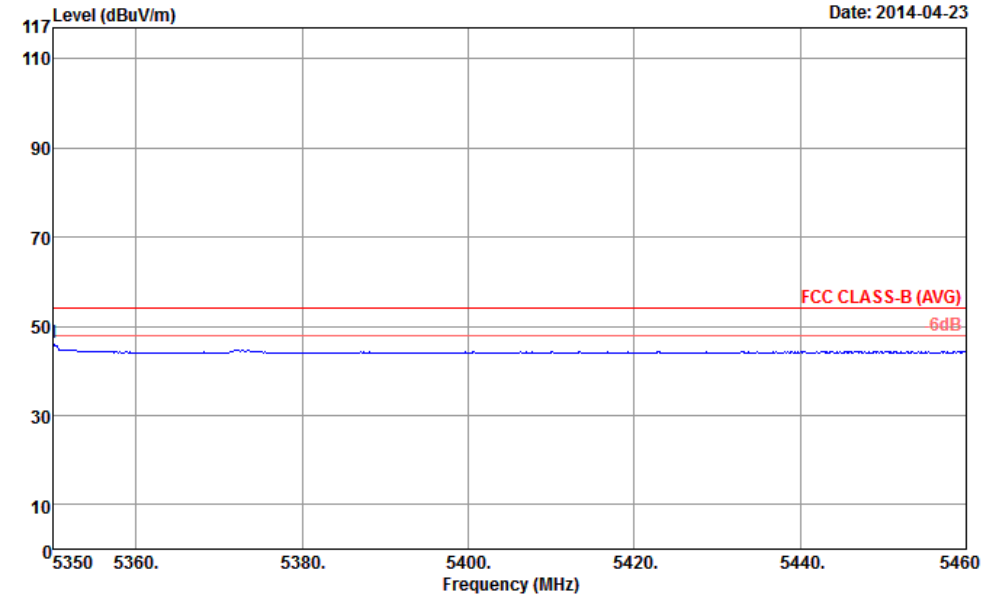
Site : 03CH06-HY
Condition : FCC CLASS-B 3m HF-ANT_583_130802 VERTICAL

ANTENNA POLARITY : VERTICAL

Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5350	65.69	-8.31	74	54.3	34.65	10.72	33.98	200	99	Peak

Note: Worst case measurement on 5350 MHz is compliance with 74/54 dBuV/m (peak/average) limit and band edge measurement in the restricted band 5350-5460MHz. The test result is compliance with the FCC limit line.

Test Mode :	802.11a	Temperature :	24~25℃
Test Band :	High	Relative Humidity :	46~47%
Test Channel :	64	Test Engineer :	Gavin Wu

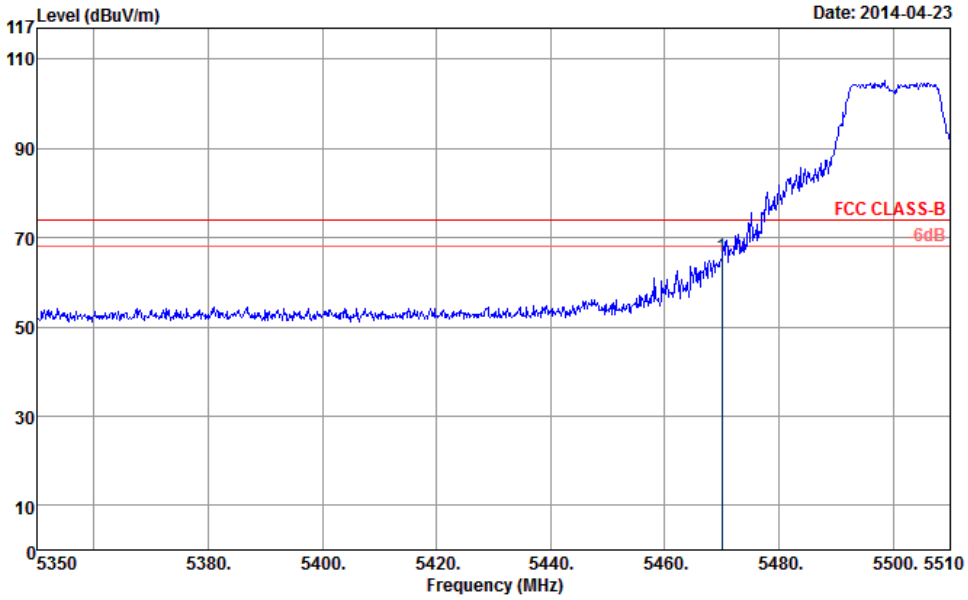


ANTENNA POLARITY : VERTICAL

Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5350	46.18	-7.82	54	34.79	34.65	10.72	33.98	200	99	Average

Note: Worst case measurement on 5350 MHz is compliance with 74/54 dBuV/m (peak/average) limit and band edge measurement in the restricted band 5350-5460MHz. The test result is compliance with the FCC limit line.

Test Mode :	802.11a	Temperature :	24~25℃
Test Band :	Low	Relative Humidity :	46~47%
Test Channel :	100	Test Engineer :	Gavin Wu



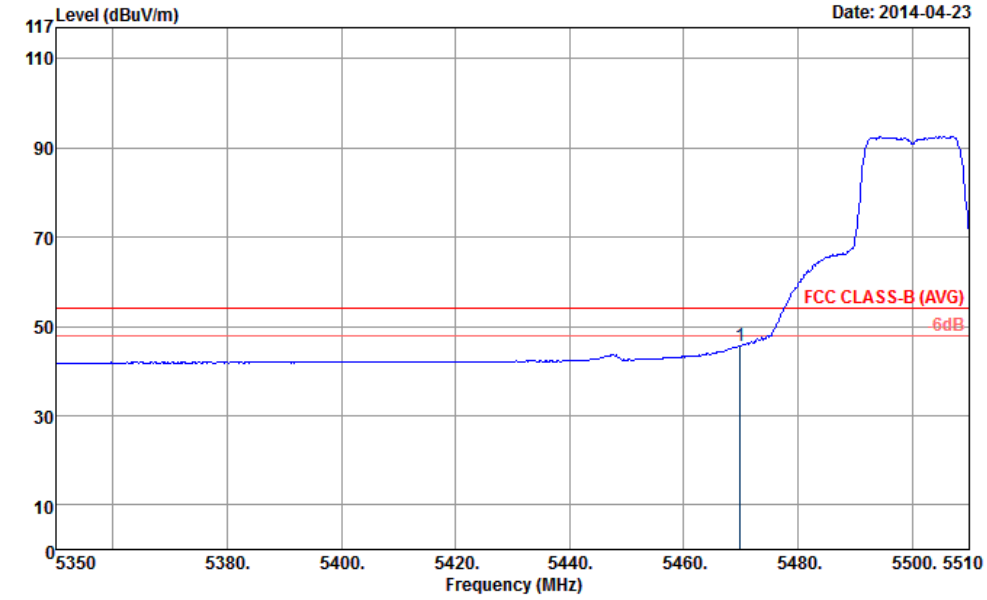
Site : 03CH06-HY
Condition : FCC CLASS-B 3m HF-ANT_583_130802 HORIZONTAL

ANTENNA POLARITY : HORIZONTAL

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5470	65.85	-8.15	74	54.17	34.77	10.89	33.98	121	340	Peak

Note: Worst case measurement on 5470 MHz is compliance with 74/54 dBuV/m (peak/average) limit and band edge measurement 5460-5510MHz is within the operating band and not within the restricted band. And, 5350-5460MHz is the restricted band. Both the test results are compliance with the FCC limit line.

Test Mode :	802.11a	Temperature :	24~25℃
Test Band :	Low	Relative Humidity :	46~47%
Test Channel :	100	Test Engineer :	Gavin Wu

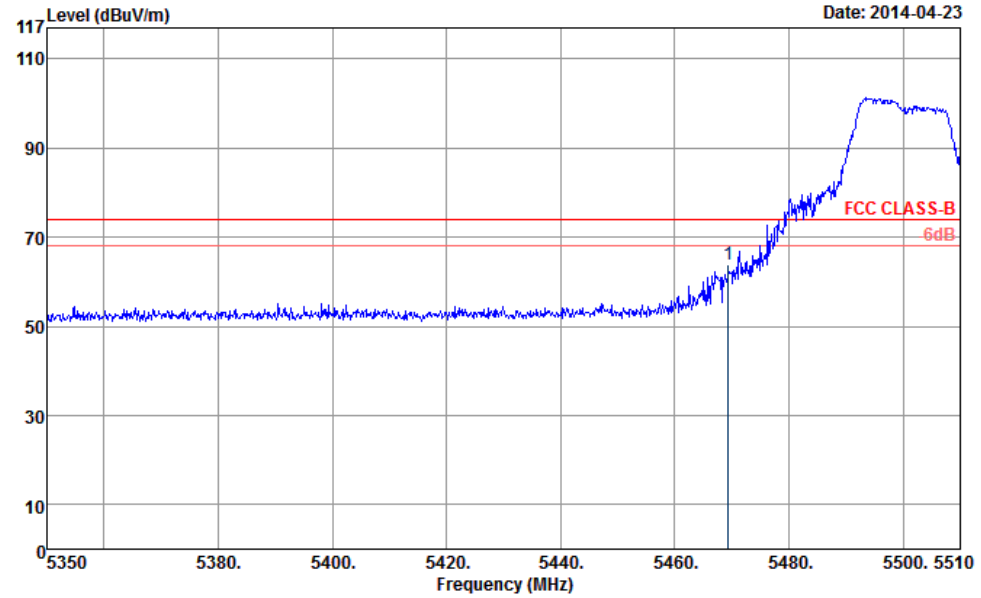


ANTENNA POLARITY : HORIZONTAL

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5469.84	45.72	-8.28	54	34.04	34.77	10.89	33.98	121	340	Average

Note: Worst case measurement on 5469.84 MHz is compliance with 74/54 dBuV/m (peak/average) limit and band edge measurement 5460-5510MHz is within the operating band and not within the restricted band. And, 5350-5460MHz is the restricted band. Both the test results are compliance with the FCC limit line.

Test Mode :	802.11a	Temperature :	24~25℃
Test Band :	Low	Relative Humidity :	46~47%
Test Channel :	100	Test Engineer :	Gavin Wu

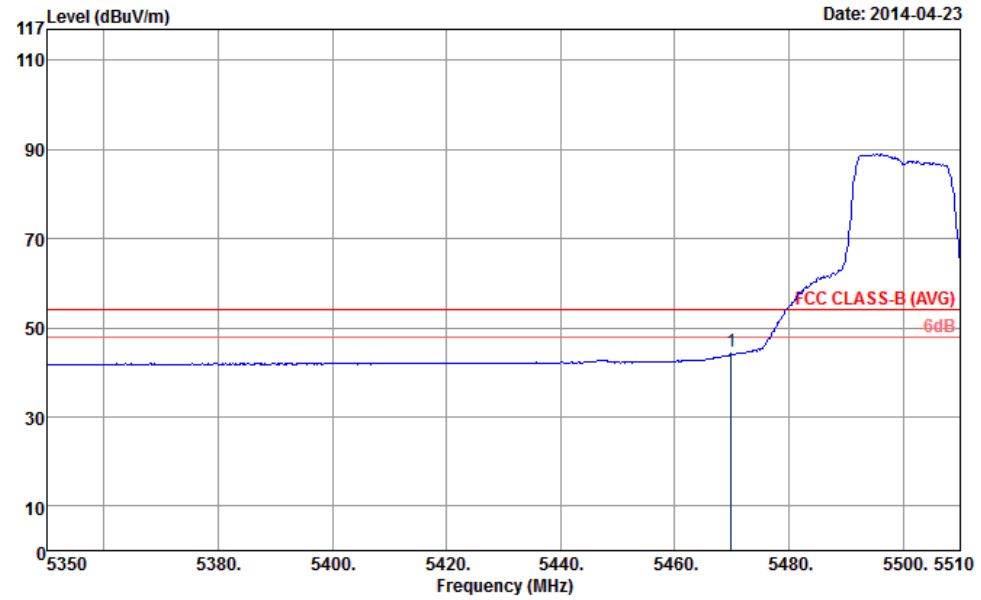


ANTENNA POLARITY : VERTICAL

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5469.36	63.8	-10.2	74	52.12	34.77	10.89	33.98	100	319	Peak

Note: Worst case measurement on 5469.36 MHz is compliance with 74/54 dBuV/m (peak/average) limit and band edge measurement 5460-5510MHz is within the operating band and not within the restricted band. And, 5350-5460MHz is the restricted band. Both the test results are compliance with the FCC limit line.

Test Mode :	802.11a	Temperature :	24~25℃
Test Band :	Low	Relative Humidity :	46~47%
Test Channel :	100	Test Engineer :	Gavin Wu

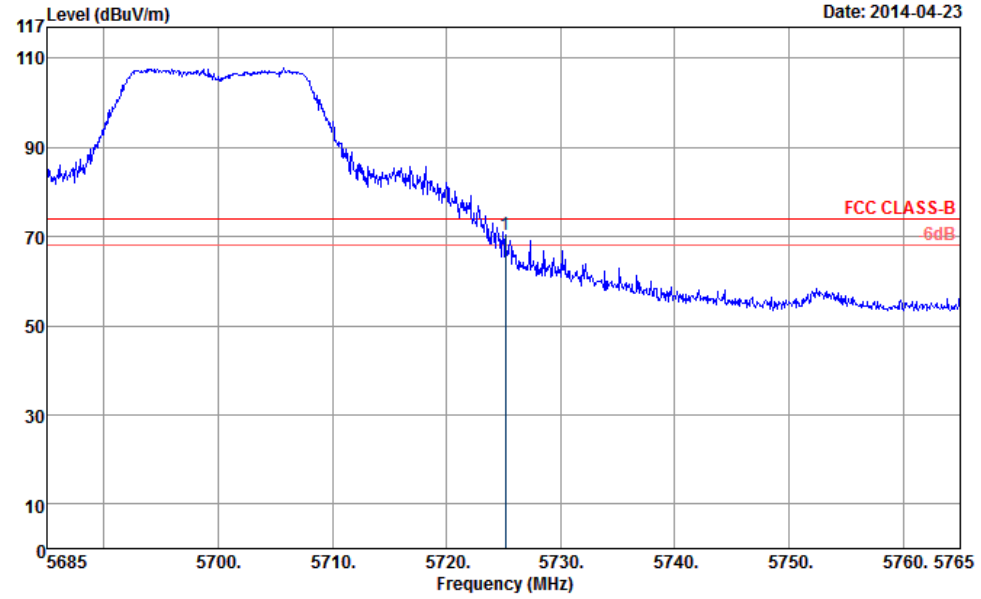


ANTENNA POLARITY : VERTICAL

Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5469.84	44.68	-9.32	54	33	34.77	10.89	33.98	100	319	Average

Note: Worst case measurement on 5469.84 MHz is compliance with 74/54 dBuV/m (peak/average) limit and band edge measurement 5460-5510MHz is within the operating band and not within the restricted band. And, 5350-5460MHz is the restricted band. Both the test results are compliance with the FCC limit line.

Test Mode :	802.11a	Temperature :	24~25℃
Test Band :	High	Relative Humidity :	46~47%
Test Channel :	140	Test Engineer :	Gavin Wu



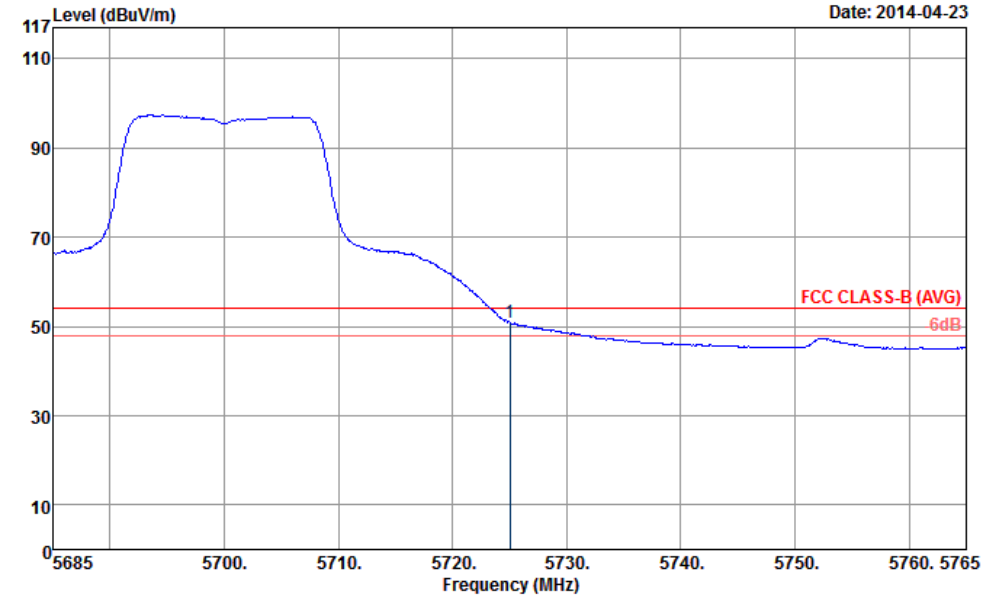
Site : 03CH06-HY
Condition : FCC CLASS-B 3m HF-ANT_583_130802 HORIZONTAL

ANTENNA POLARITY : HORIZONTAL

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5725.16	70.32	-3.68	74	57.95	35.02	11.34	33.99	103	283	Peak

Note: Worst case measurement on 5725.16 MHz is compliance with 74/54 dBuV/m (peak/average) limit and band edge measurement 5685-5765MHz is within the operating band and not within the restricted band. The test result is compliance with the FCC limit line.

Test Mode :	802.11a	Temperature :	24~25℃
Test Band :	High	Relative Humidity :	46~47%
Test Channel :	140	Test Engineer :	Gavin Wu

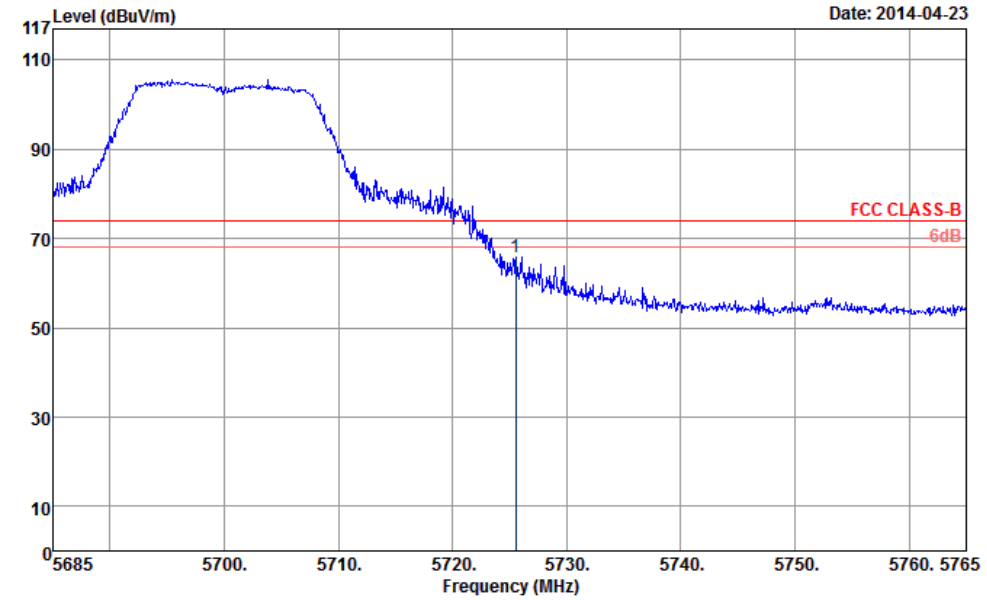


ANTENNA POLARITY : HORIZONTAL

Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5725	50.9	-3.1	54	38.53	35.02	11.34	33.99	103	283	Average

Note: Worst case measurement on 5725 MHz is compliance with 74/54 dBuV/m (peak/average) limit and band edge measurement 5685-5765MHz is within the operating band and not within the restricted band. The test result is compliance with the FCC limit line.

Test Mode :	802.11a	Temperature :	24~25℃
Test Band :	High	Relative Humidity :	46~47%
Test Channel :	140	Test Engineer :	Gavin Wu



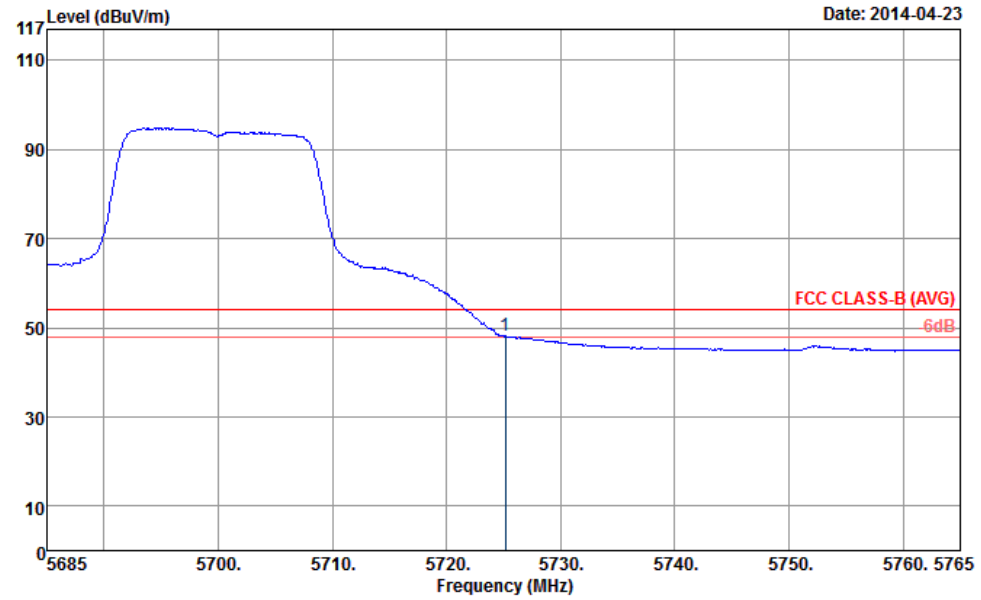
Site : 03CH06-HY
Condition : FCC CLASS-B 3m HF-ANT_583_130802 VERTICAL

ANTENNA POLARITY : VERTICAL

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5725.56	65.87	-8.13	74	53.5	35.02	11.34	33.99	101	82	Peak

Note: Worst case measurement on 5725.56 MHz is compliance with 74/54 dBuV/m (peak/average) limit and band edge measurement 5685-5765MHz is within the operating band and not within the restricted band. The test result is compliance with the FCC limit line.

Test Mode :	802.11a	Temperature :	24~25℃
Test Band :	High	Relative Humidity :	46~47%
Test Channel :	140	Test Engineer :	Gavin Wu



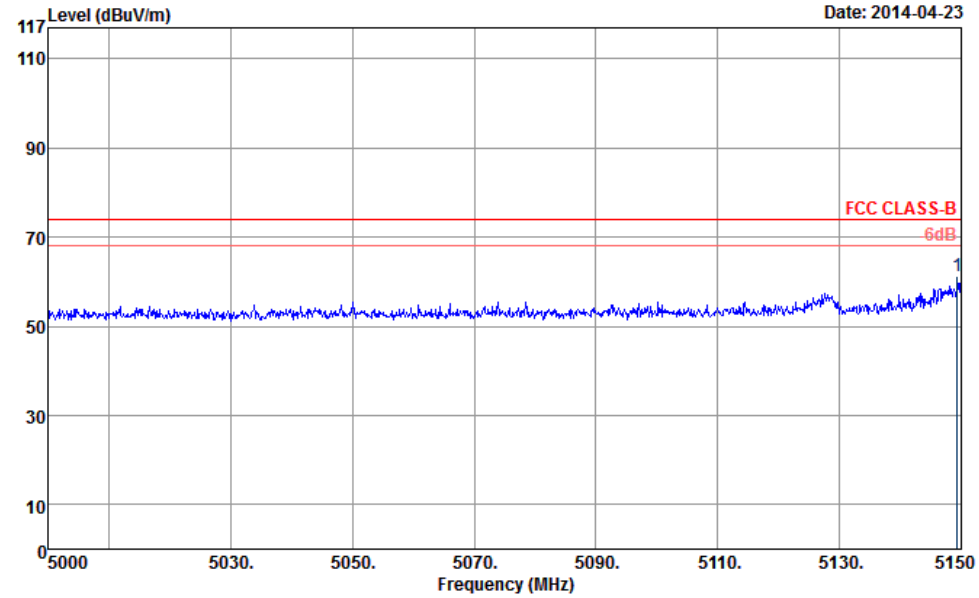
Site : 03CH06-HY
Condition : FCC CLASS-B (AVG) 3m HF-ANT_583_130802 VERTICAL

ANTENNA POLARITY : VERTICAL

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5725.16	48.17	-5.83	54	35.8	35.02	11.34	33.99	101	82	Average

Note: Worst case measurement on 5725.16 MHz is compliance with 74/54 dBuV/m (peak/average) limit and band edge measurement 5685-5765MHz is within the operating band and not within the restricted band. The test result is compliance with the FCC limit line.

Test Mode :	802.11n HT20	Temperature :	24~25℃
Test Band :	Low	Relative Humidity :	46~47%
Test Channel :	36	Test Engineer :	Gavin Wu



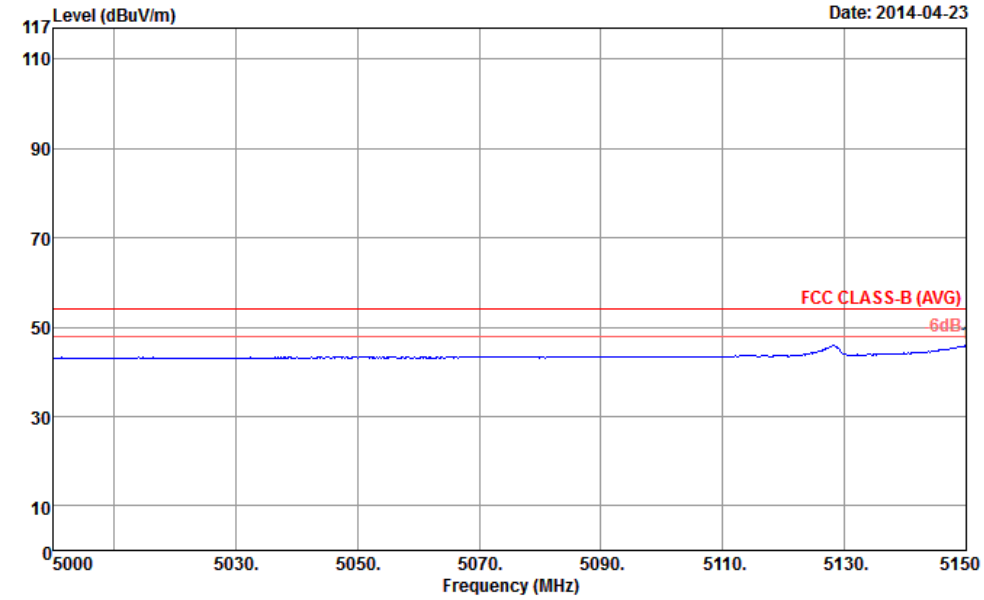
Site : 03CH06-HY
Condition : FCC CLASS-B 3m HF-ANT_583_130802 HORIZONTAL

ANTENNA POLARITY : HORIZONTAL

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5149.4	61.14	-12.86	74	50.24	34.45	10.44	33.99	100	314	Peak

Note: Worst case measurement on 5149.4 MHz is compliance with 74/54 dBuV/m (peak/average) limit and band edge measurement in the restricted band 5000-5150MHz. The test result is compliance with the FCC limit line.

Test Mode :	802.11n HT20	Temperature :	24~25℃
Test Band :	Low	Relative Humidity :	46~47%
Test Channel :	36	Test Engineer :	Gavin Wu



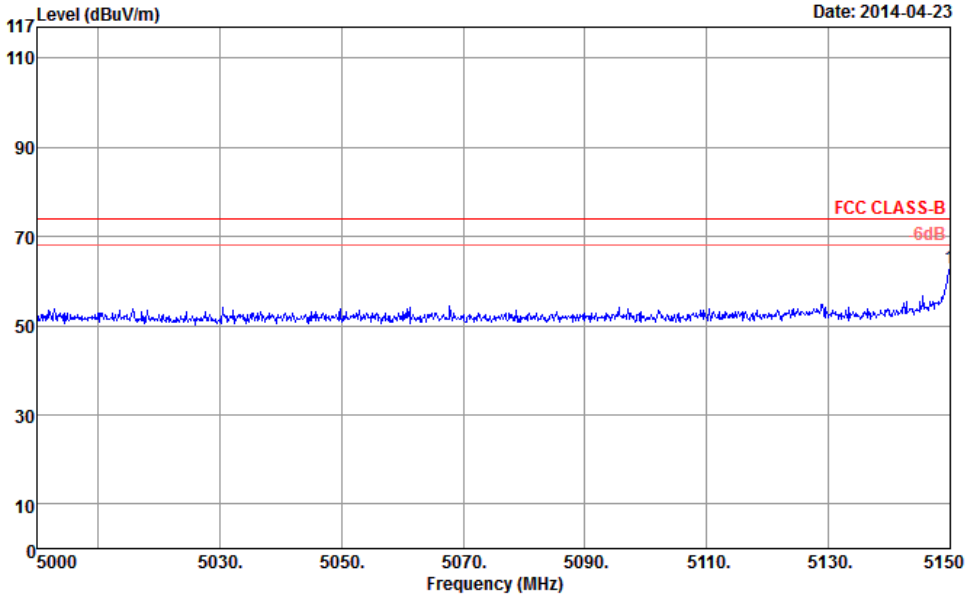
Site : 03CH06-HY
Condition : FCC CLASS-B (AVG) 3m HF-ANT_583_130802 HORIZONTAL

ANTENNA POLARITY : HORIZONTAL

Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5150	46.23	-7.77	54	35.33	34.45	10.44	33.99	100	314	Average

Note: Worst case measurement on 5150 MHz is compliance with 74/54 dBuV/m (peak/average) limit and band edge measurement in the restricted band 5000-5150MHz. The test result is compliance with the FCC limit line.

Test Mode :	802.11n HT20	Temperature :	24~25℃
Test Band :	Low	Relative Humidity :	46~47%
Test Channel :	36	Test Engineer :	Gavin Wu



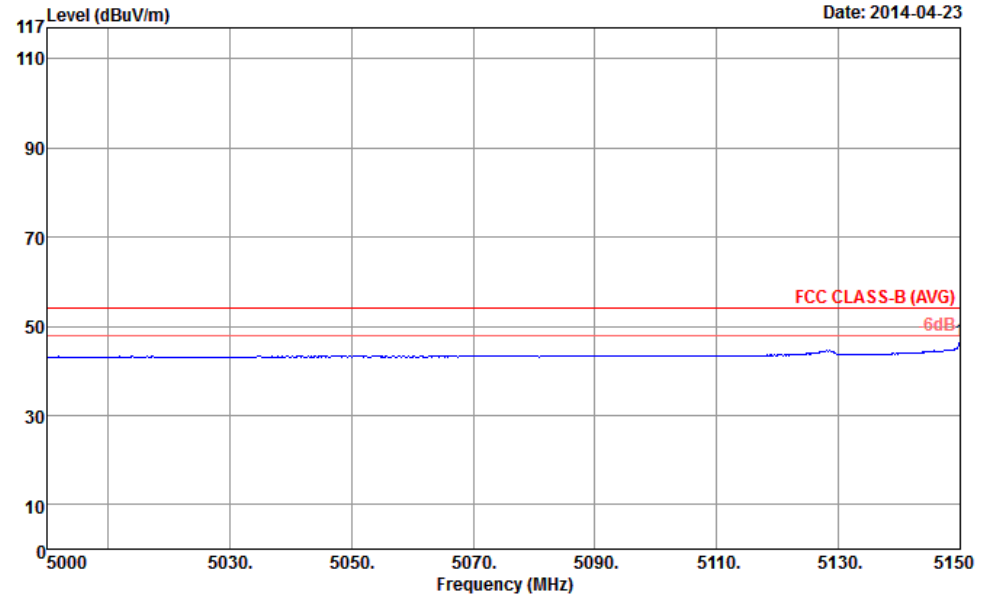
Site : 03CH06-HY
Condition : FCC CLASS-B 3m HF-ANT_583_130802 VERTICAL

ANTENNA POLARITY : VERTICAL

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5150	63.03	-10.97	74	52.13	34.45	10.44	33.99	112	105	Peak

Note: Worst case measurement on 5150 MHz is compliance with 74/54 dBuV/m (peak/average) limit and band edge measurement in the restricted band 5000-5150MHz. The test result is compliance with the FCC limit line.

Test Mode :	802.11n HT20	Temperature :	24~25℃
Test Band :	Low	Relative Humidity :	46~47%
Test Channel :	36	Test Engineer :	Gavin Wu



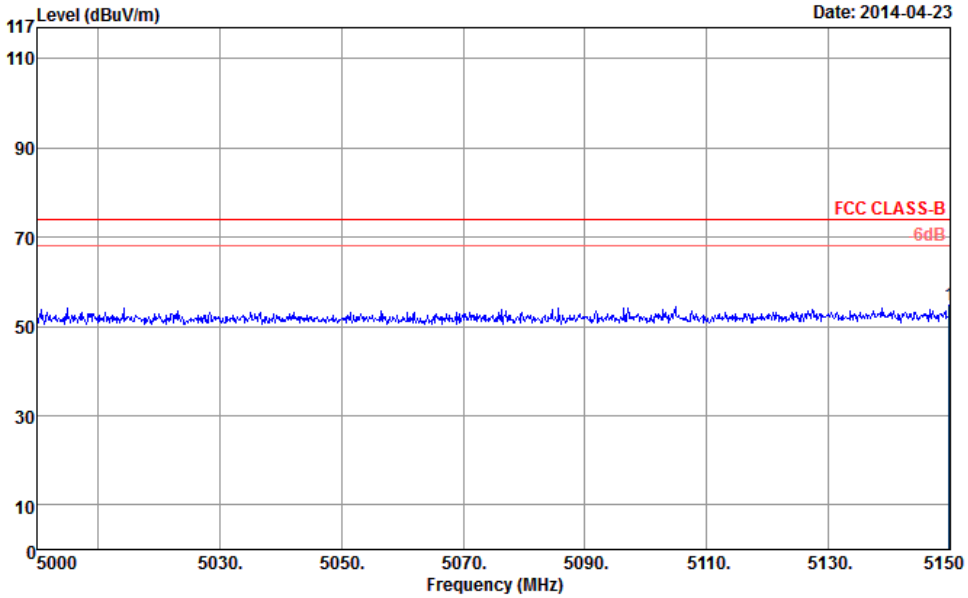
Site : 03CH06-HY
Condition : FCC CLASS-B (AVG) 3m HF-ANT_583_130802 VERTICAL

ANTENNA POLARITY : VERTICAL

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5150	46.49	-7.51	54	35.59	34.45	10.44	33.99	112	105	Average

Note: Worst case measurement on 5150 MHz is compliance with 74/54 dBuV/m (peak/average) limit and band edge measurement in the restricted band 5000-5150MHz. The test result is compliance with the FCC limit line.

Test Mode :	802.11n HT20	Temperature :	24~25℃
Test Band :	High	Relative Humidity :	46~47%
Test Channel :	48	Test Engineer :	Gavin Wu



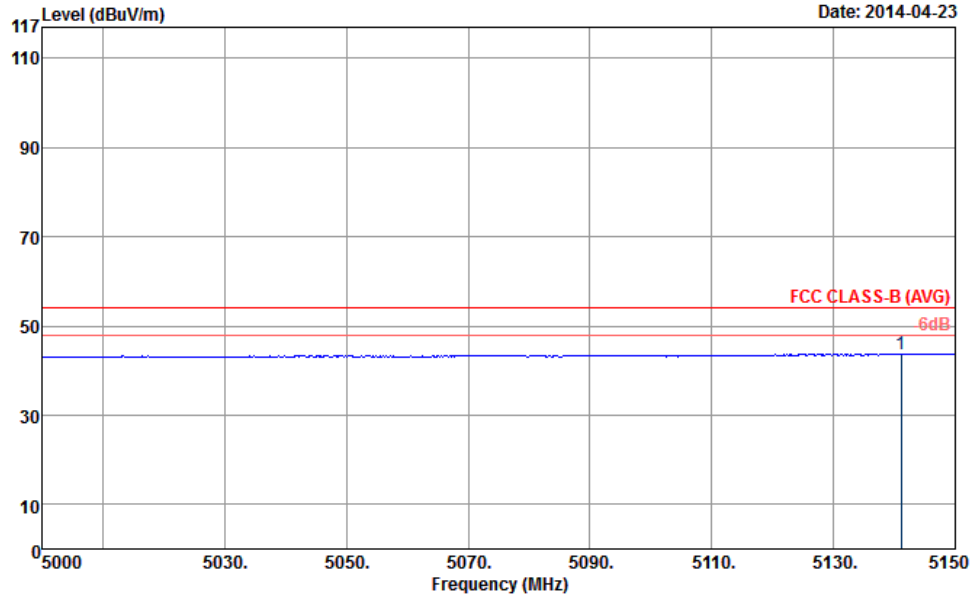
Site : 03CH06-HY
Condition : FCC CLASS-B 3m HF-ANT_583_130802 HORIZONTAL

ANTENNA POLARITY : HORIZONTAL

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5149.85	54.69	-19.31	74	43.79	34.45	10.44	33.99	100	359	Peak

Note: Worst case measurement on 5149.85 MHz is compliance with 74/54 dBuV/m (peak/average) limit and band edge measurement in the restricted band 5000-5150MHz. The test result is compliance with the FCC limit line.

Test Mode :	802.11n HT20	Temperature :	24~25℃
Test Band :	High	Relative Humidity :	46~47%
Test Channel :	48	Test Engineer :	Gavin Wu



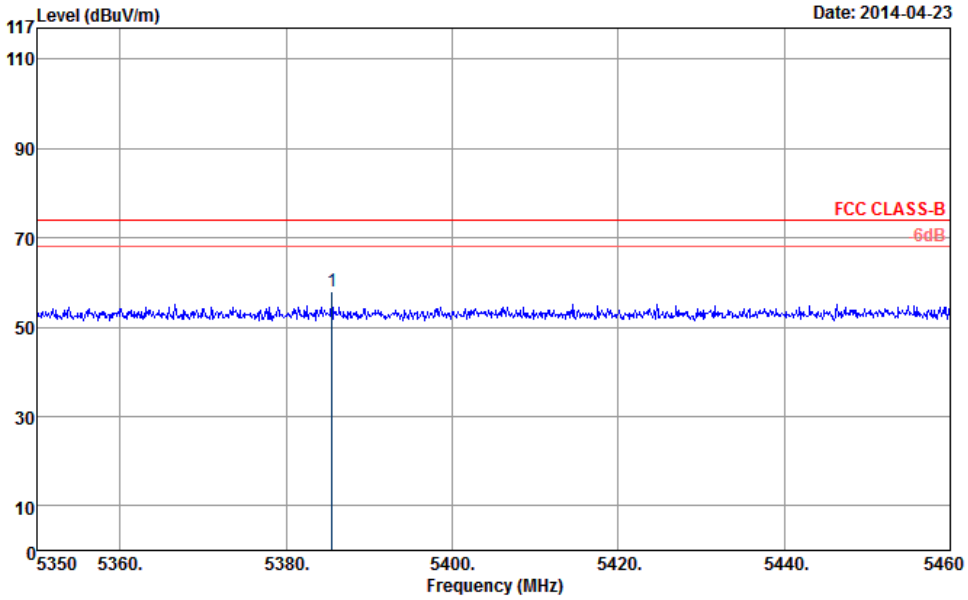
Site : 03CH06-HY
Condition : FCC CLASS-B (AVG) 3m HF-ANT_583_130802 HORIZONTAL

ANTENNA POLARITY : HORIZONTAL

Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5141.15	43.75	-10.25	54	32.85	34.45	10.44	33.99	100	359	Average

Note: Worst case measurement on 5141.15 MHz is compliance with 74/54 dBuV/m (peak/average) limit and band edge measurement in the restricted band 5000-5150MHz. The test result is compliance with the FCC limit line.

Test Mode :	802.11n HT20	Temperature :	24~25℃
Test Band :	High	Relative Humidity :	46~47%
Test Channel :	48	Test Engineer :	Gavin Wu



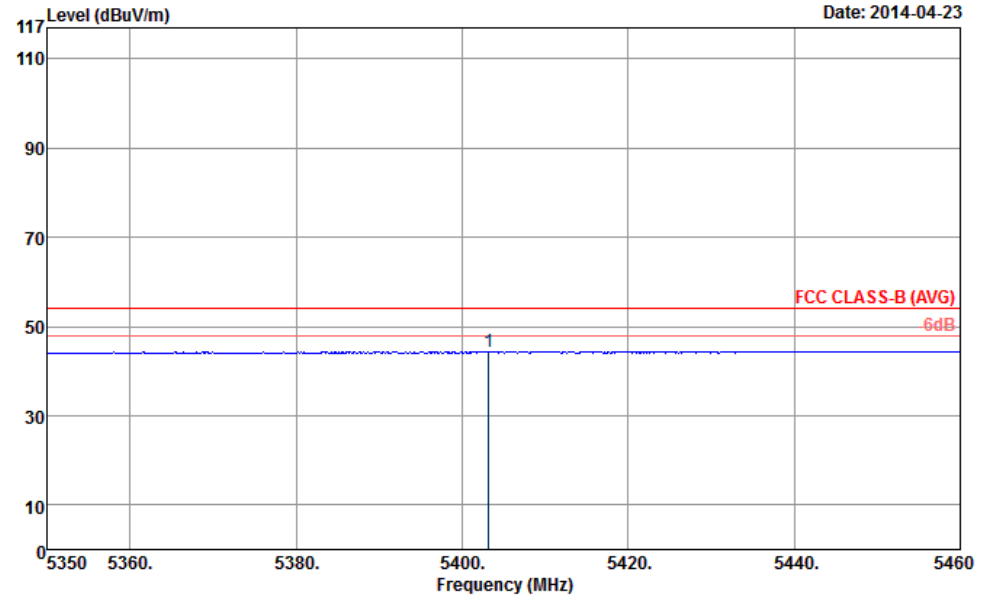
Site : 03CH06-HY
Condition : FCC CLASS-B 3m HF-ANT_583_130802 HORIZONTAL

ANTENNA POLARITY : HORIZONTAL

Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5385.53	57.94	-16.06	74	46.45	34.68	10.79	33.98	100	359	Peak

Note: Worst case measurement on 5385.53 MHz is compliance with 74/54 dBuV/m (peak/average) limit and band edge measurement in the restricted band 5350-5460MHz. The test result is compliance with the FCC limit line.

Test Mode :	802.11n HT20	Temperature :	24~25℃
Test Band :	High	Relative Humidity :	46~47%
Test Channel :	48	Test Engineer :	Gavin Wu



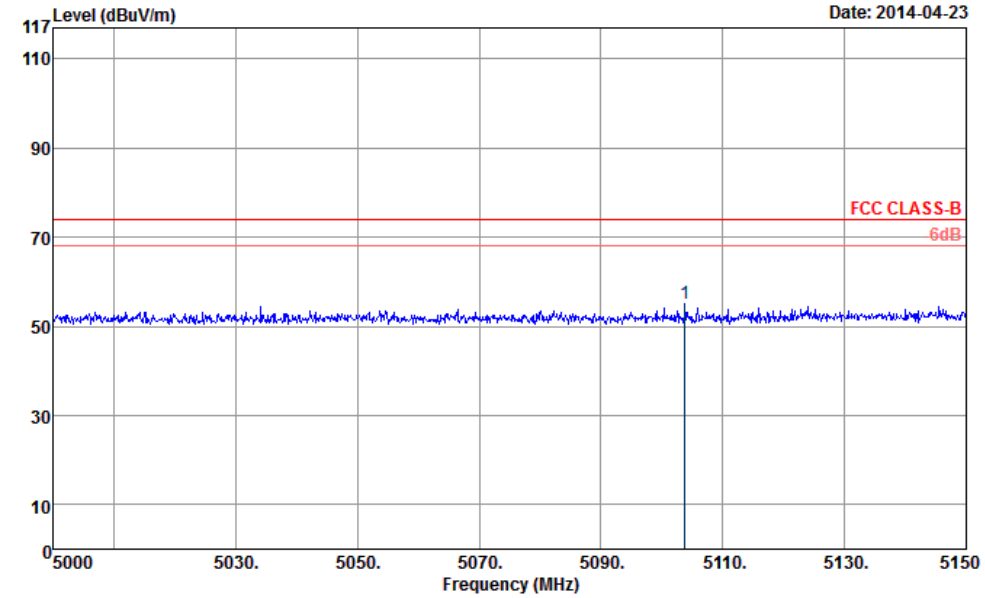
Site : 03CH06-HY
Condition : FCC CLASS-B (AVG) 3m HF-ANT_583_130802 HORIZONTAL

ANTENNA POLARITY : HORIZONTAL

Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5403.24	44.4	-9.6	54	32.89	34.7	10.79	33.98	100	359	Average

Note: Worst case measurement on 5403.24 MHz is compliance with 74/54 dBuV/m (peak/average) limit and band edge measurement in the restricted band 5350-5460MHz. The test result is compliance with the FCC limit line.

Test Mode :	802.11n HT20	Temperature :	24~25℃
Test Band :	High	Relative Humidity :	46~47%
Test Channel :	48	Test Engineer :	Gavin Wu



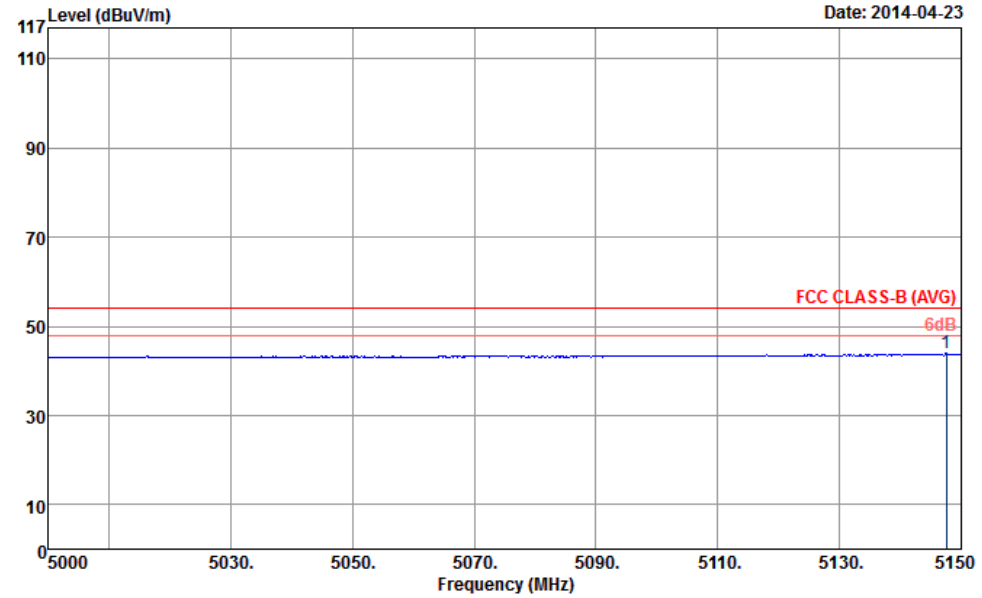
Site : 03CH06-HY
Condition : FCC CLASS-B 3m HF-ANT_583_130802 VERTICAL

ANTENNA POLARITY : VERTICAL

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5103.8	54.93	-19.07	74	44.15	34.4	10.37	33.99	108	100	Peak

Note: Worst case measurement on 5103.8 MHz is compliance with 74/54 dBuV/m (peak/average) limit and band edge measurement in the restricted band 5000-5150MHz. The test result is compliance with the FCC limit line.

Test Mode :	802.11n HT20	Temperature :	24~25℃
Test Band :	High	Relative Humidity :	46~47%
Test Channel :	48	Test Engineer :	Gavin Wu



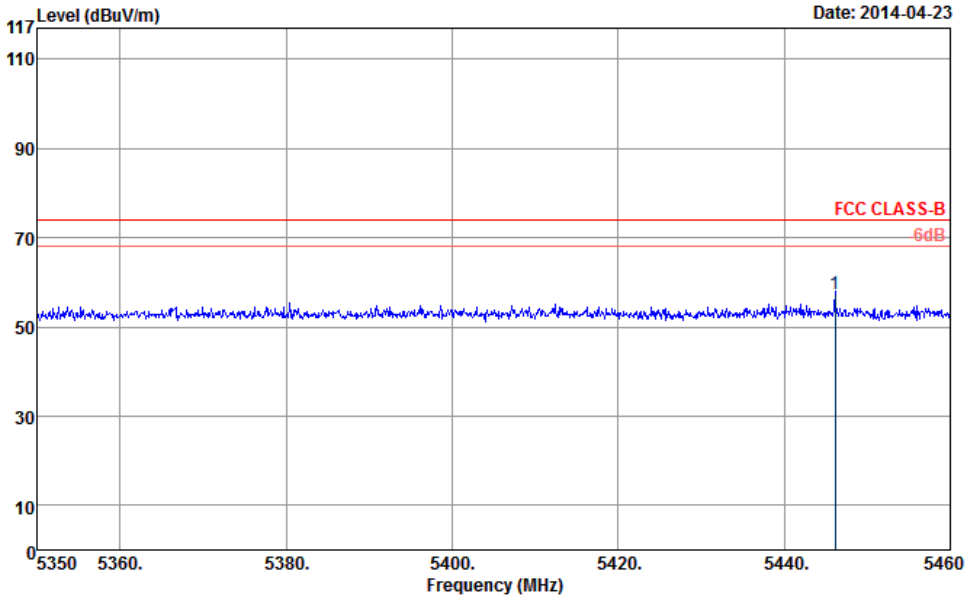
Site : 03CH06-HY
Condition : FCC CLASS-B (AVG) 3m HF-ANT_583_130802 VERTICAL

ANTENNA POLARITY : VERTICAL

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5147.6	43.93	-10.07	54	33.03	34.45	10.44	33.99	108	100	Average

Note: Worst case measurement on 5147.6 MHz is compliance with 74/54 dBuV/m (peak/average) limit and band edge measurement in the restricted band 5000-5150MHz. The test result is compliance with the FCC limit line.

Test Mode :	802.11n HT20	Temperature :	24~25℃
Test Band :	High	Relative Humidity :	46~47%
Test Channel :	48	Test Engineer :	Gavin Wu



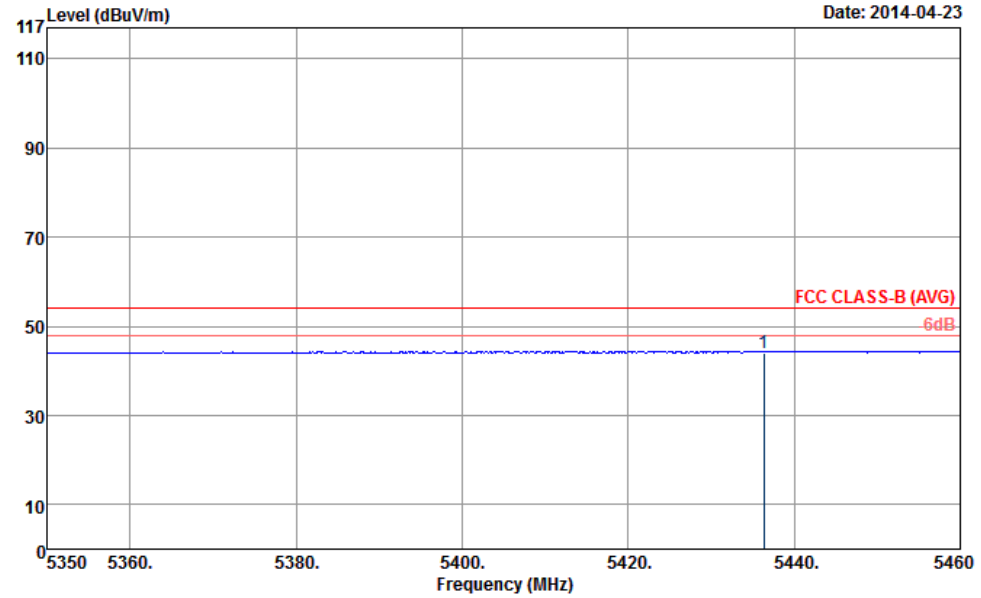
Site : 03CH06-HY
Condition : FCC CLASS-B 3m HF-ANT_583_130802 VERTICAL

ANTENNA POLARITY : VERTICAL

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5446.14	57.2	-16.8	74	45.57	34.75	10.86	33.98	108	100	Peak

Note: Worst case measurement on 5446.14 MHz is compliance with 74/54 dBuV/m (peak/average) limit and band edge measurement in the restricted band 5350-5460MHz. The test result is compliance with the FCC limit line.

Test Mode :	802.11n HT20	Temperature :	24~25℃
Test Band :	High	Relative Humidity :	46~47%
Test Channel :	48	Test Engineer :	Gavin Wu

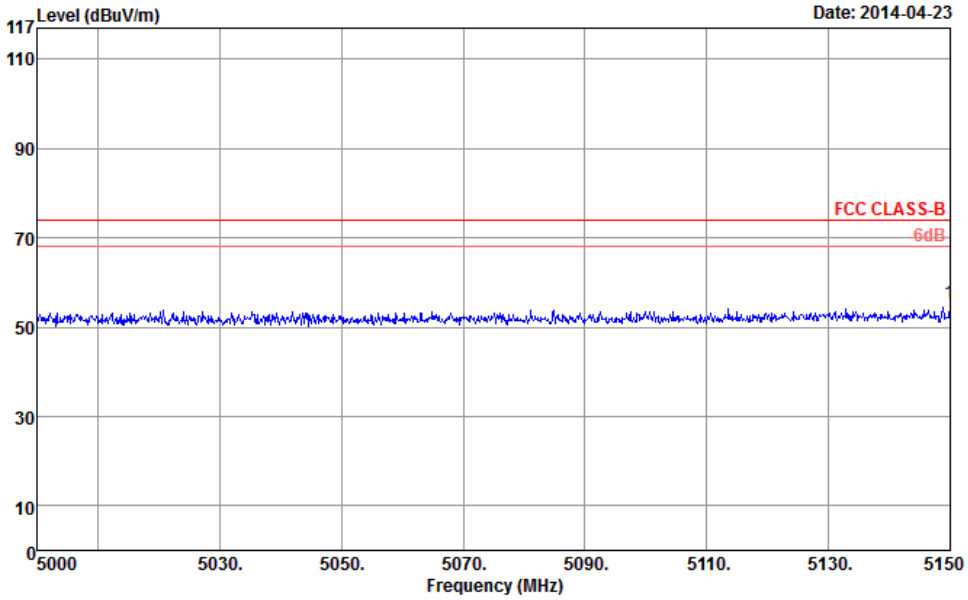


ANTENNA POLARITY : VERTICAL

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5436.35	43.96	-10.04	54	32.35	34.73	10.86	33.98	108	100	Average

Note: Worst case measurement on 5436.35 MHz is compliance with 74/54 dBuV/m (peak/average) limit and band edge measurement in the restricted band 5350-5460MHz. The test result is compliance with the FCC limit line.

Test Mode :	802.11n HT20	Temperature :	24~25℃
Test Band :	Low	Relative Humidity :	46~47%
Test Channel :	52	Test Engineer :	Gavin Wu



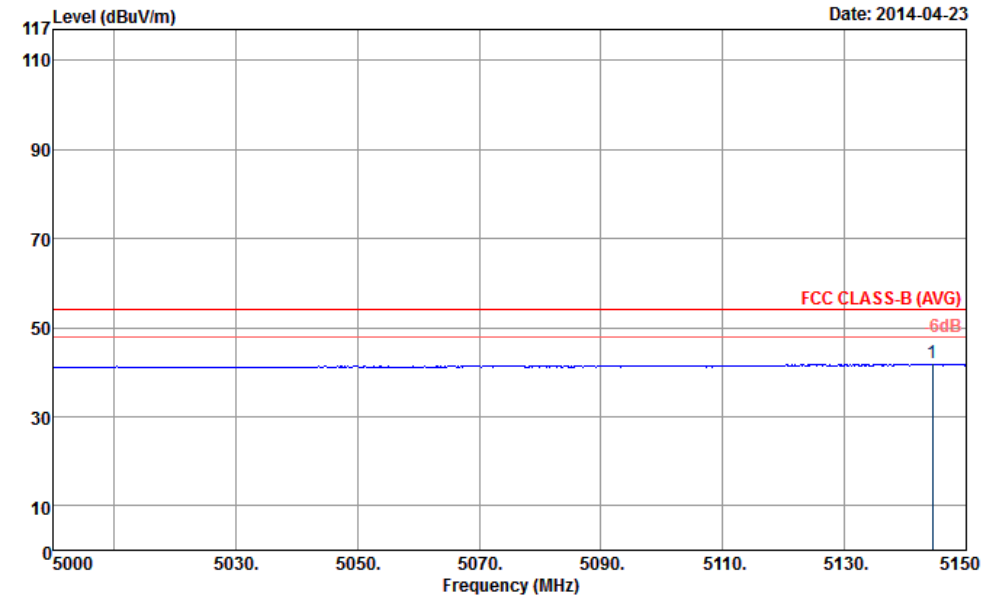
Site : 03CH06-HY
Condition : FCC CLASS-B 3m HF-ANT_583_130802 HORIZONTAL

ANTENNA POLARITY : HORIZONTAL

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5150	55.26	-18.74	74	44.36	34.45	10.44	33.99	100	356	Peak

Note: Worst case measurement on 5150 MHz is compliance with 74/54 dBuV/m (peak/average) limit and band edge measurement in the restricted band 5000-5150MHz. The test result is compliance with the FCC limit line.

Test Mode :	802.11n HT20	Temperature :	24~25℃
Test Band :	Low	Relative Humidity :	46~47%
Test Channel :	52	Test Engineer :	Gavin Wu



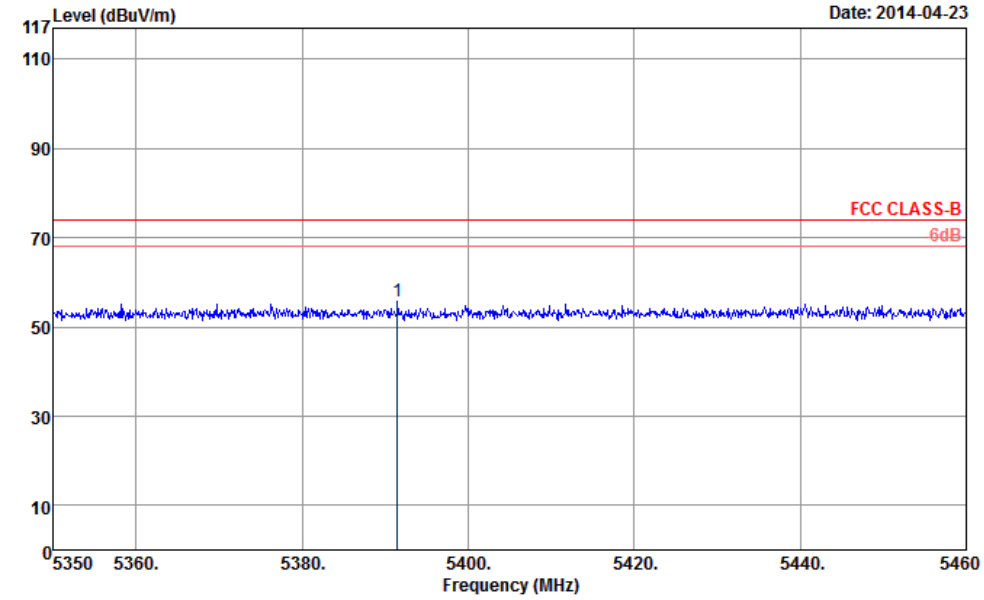
Site : 03CH06-HY
Condition : FCC CLASS-B (AVG) 3m HF-ANT_583_130802 HORIZONTAL

ANTENNA POLARITY : HORIZONTAL

Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5144.45	41.94	-12.06	54	31.04	34.45	10.44	33.99	100	356	Average

Note: Worst case measurement on 5144.45 MHz is compliance with 74/54 dBuV/m (peak/average) limit and band edge measurement in the restricted band 5000-5150MHz. The test result is compliance with the FCC limit line.

Test Mode :	802.11n HT20	Temperature :	24~25℃
Test Band :	Low	Relative Humidity :	46~47%
Test Channel :	52	Test Engineer :	Gavin Wu

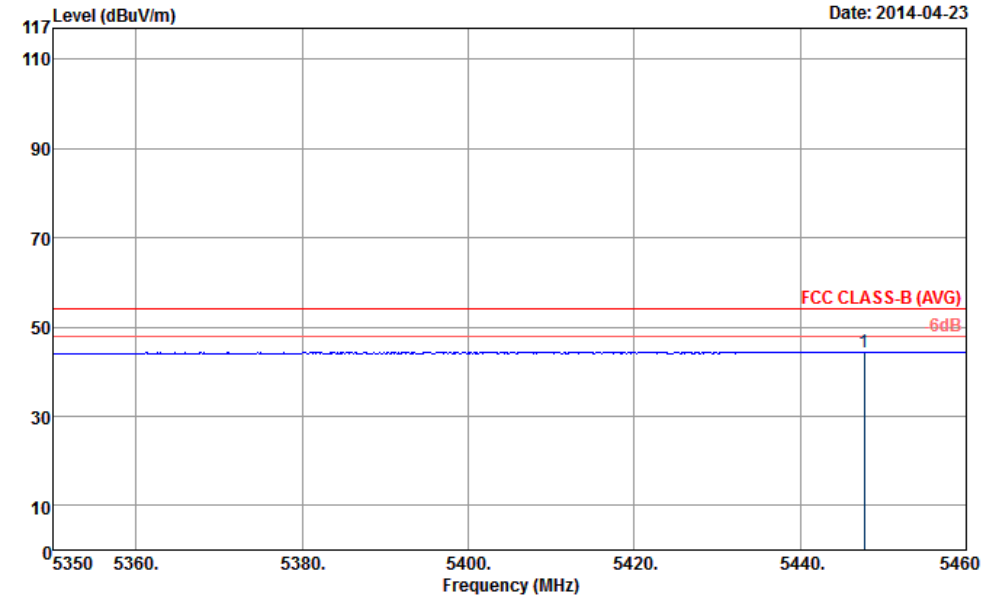


ANTENNA POLARITY : HORIZONTAL

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5391.47	55.69	-18.31	74	44.2	34.68	10.79	33.98	100	356	Peak

Note: Worst case measurement on 5391.47 MHz is compliance with 74/54 dBuV/m (peak/average) limit and band edge measurement in the restricted band 5350-5460MHz. The test result is compliance with the FCC limit line.

Test Mode :	802.11n HT20	Temperature :	24~25℃
Test Band :	Low	Relative Humidity :	46~47%
Test Channel :	52	Test Engineer :	Gavin Wu



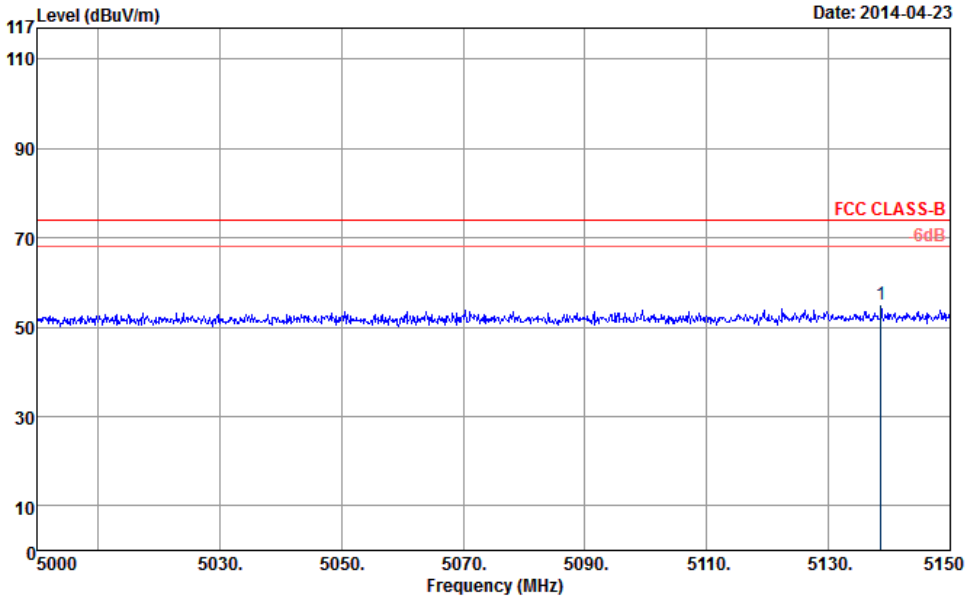
Site : 03CH06-HY
Condition : FCC CLASS-B (AVG) 3m HF-ANT_583_130802 HORIZONTAL

ANTENNA POLARITY : HORIZONTAL

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5447.68	44.43	-9.57	54	32.8	34.75	10.86	33.98	100	356	Average

Note: Worst case measurement on 5447.68 MHz is compliance with 74/54 dBuV/m (peak/average) limit and band edge measurement in the restricted band 5350-5460MHz. The test result is compliance with the FCC limit line.

Test Mode :	802.11n HT20	Temperature :	24~25℃
Test Band :	Low	Relative Humidity :	46~47%
Test Channel :	52	Test Engineer :	Gavin Wu



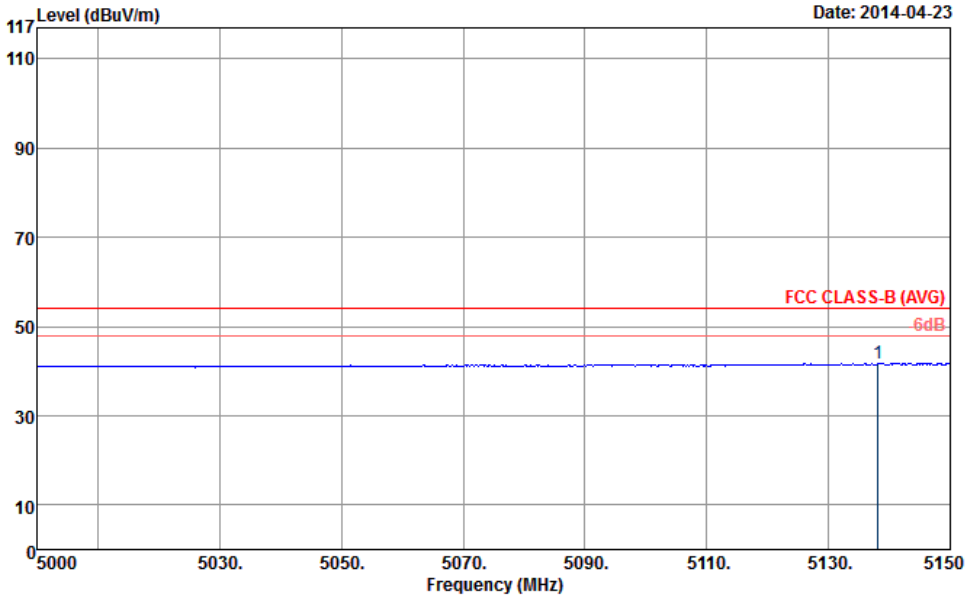
Site : 03CH06-HY
Condition : FCC CLASS-B 3m HF-ANT_583_130802 VERTICAL

ANTENNA POLARITY : VERTICAL

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5138.6	55.17	-18.83	74	44.33	34.43	10.4	33.99	109	96	Peak

Note: Worst case measurement on 5138.6 MHz is compliance with 74/54 dBuV/m (peak/average) limit and band edge measurement in the restricted band 5000-5150MHz. The test result is compliance with the FCC limit line.

Test Mode :	802.11n HT20	Temperature :	24~25℃
Test Band :	Low	Relative Humidity :	46~47%
Test Channel :	52	Test Engineer :	Gavin Wu



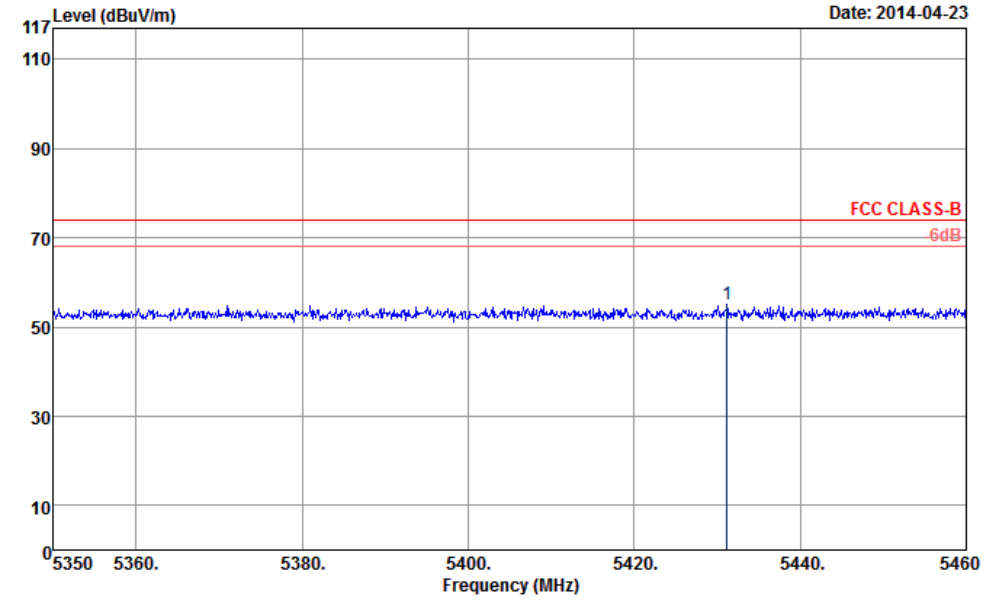
Site : 03CH06-HY
Condition : FCC CLASS-B (AVG) 3m HF-ANT_583_130802 VERTICAL

ANTENNA POLARITY : VERTICAL

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5138.15	41.68	-12.32	54	30.84	34.43	10.4	33.99	109	96	Average

Note: Worst case measurement on 5138.15 MHz is compliance with 74/54 dBuV/m (peak/average) limit and band edge measurement in the restricted band 5000-5150MHz. The test result is compliance with the FCC limit line.

Test Mode :	802.11n HT20	Temperature :	24~25℃
Test Band :	Low	Relative Humidity :	46~47%
Test Channel :	52	Test Engineer :	Gavin Wu



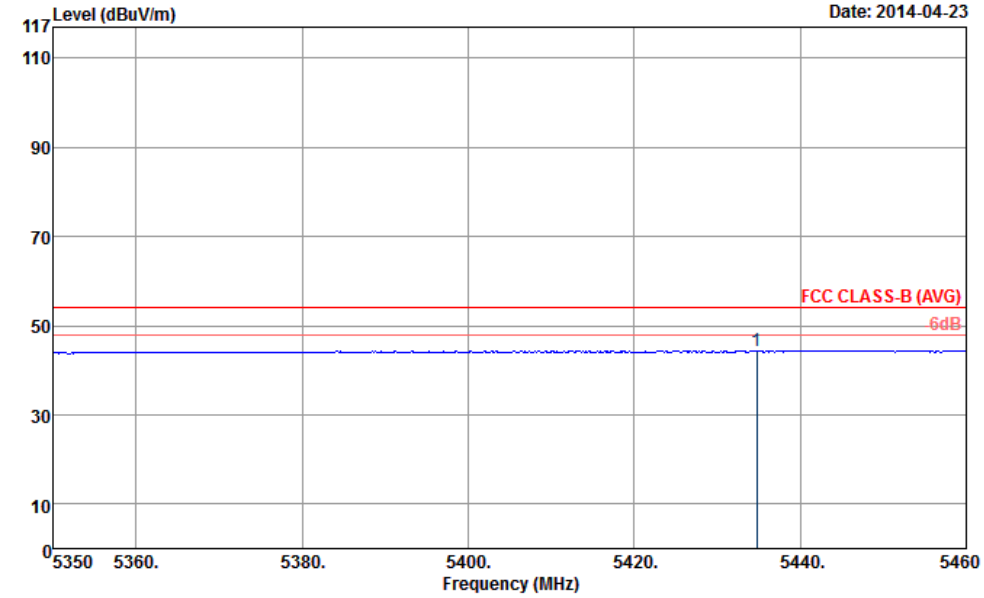
Site : 03CH06-HY
Condition : FCC CLASS-B 3m HF-ANT_583_130802 VERTICAL

ANTENNA POLARITY : VERTICAL

Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5431.18	55.21	-18.79	74	43.6	34.73	10.86	33.98	109	96	Peak

Note: Worst case measurement on 5431.18 MHz is compliance with 74/54 dBuV/m (peak/average) limit and band edge measurement in the restricted band 5350-5460MHz. The test result is compliance with the FCC limit line.

Test Mode :	802.11n HT20	Temperature :	24~25℃
Test Band :	Low	Relative Humidity :	46~47%
Test Channel :	52	Test Engineer :	Gavin Wu



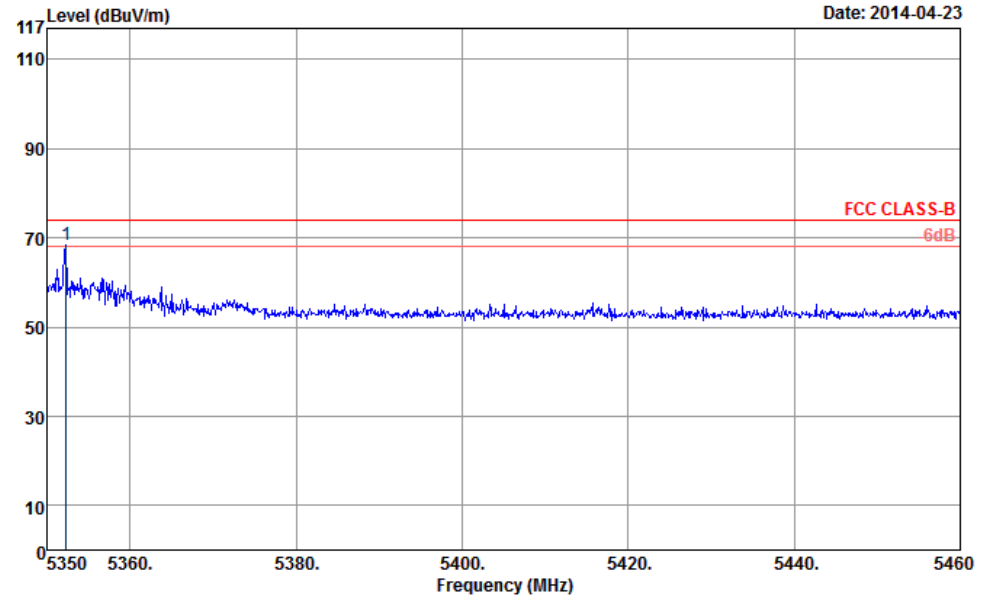
Site : 03CH06-HY
Condition : FCC CLASS-B (AVG) 3m HF-ANT_583_130802 VERTICAL

ANTENNA POLARITY : VERTICAL

Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5434.81	44.37	-9.63	54	32.76	34.73	10.86	33.98	109	96	Average

Note: Worst case measurement on 5434.81 MHz is compliance with 74/54 dBuV/m (peak/average) limit and band edge measurement in the restricted band 5350-5460MHz. The test result is compliance with the FCC limit line.

Test Mode :	802.11n HT20	Temperature :	24~25℃
Test Band :	High	Relative Humidity :	46~47%
Test Channel :	64	Test Engineer :	Gavin Wu

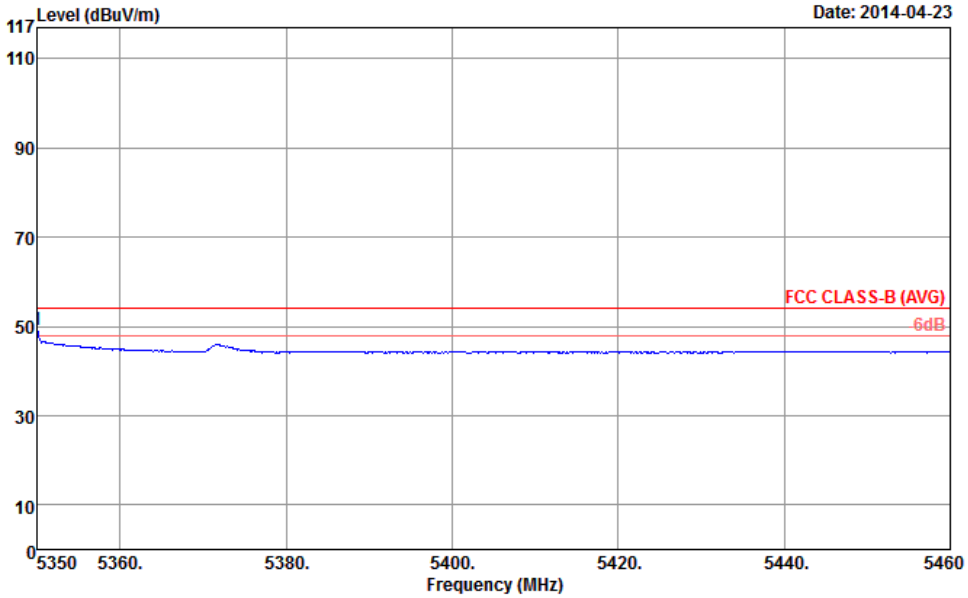


ANTENNA POLARITY : HORIZONTAL

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5352.31	68.35	-5.65	74	56.96	34.65	10.72	33.98	100	359	Peak

Note: Worst case measurement on 5352.31 MHz is compliance with 74/54 dBuV/m (peak/average) limit and band edge measurement in the restricted band 5350-5460MHz. The test result is compliance with the FCC limit line.

Test Mode :	802.11n HT20	Temperature :	24~25℃
Test Band :	High	Relative Humidity :	46~47%
Test Channel :	64	Test Engineer :	Gavin Wu



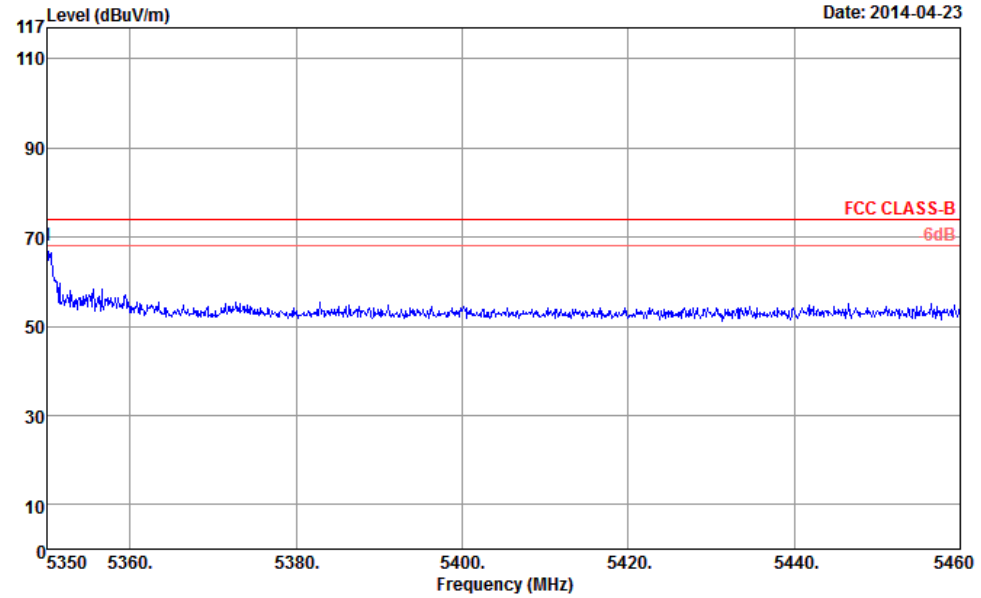
Site : 03CH06-HY
Condition : FCC CLASS-B (AVG) 3m HF-ANT_583_130802 HORIZONTAL

ANTENNA POLARITY : HORIZONTAL

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5350	49.13	-4.87	54	37.74	34.65	10.72	33.98	100	359	Average

Note: Worst case measurement on 5350 MHz is compliance with 74/54 dBuV/m (peak/average) limit and band edge measurement in the restricted band 5350-5460MHz. The test result is compliance with the FCC limit line.

Test Mode :	802.11n HT20	Temperature :	24~25℃
Test Band :	High	Relative Humidity :	46~47%
Test Channel :	64	Test Engineer :	Gavin Wu



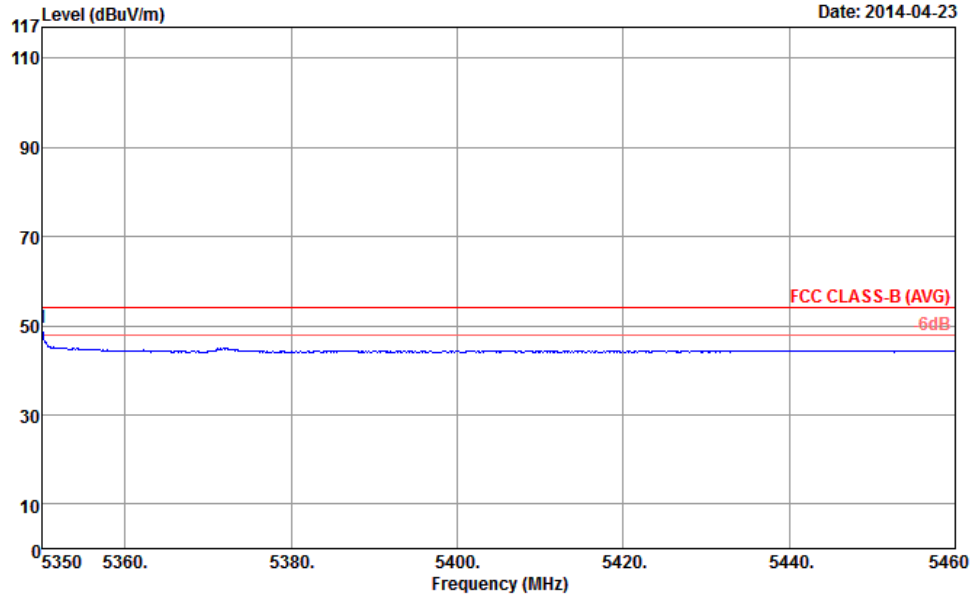
Site : 03CH06-HY
Condition : FCC CLASS-B 3m HF-ANT_583_130802 VERTICAL

ANTENNA POLARITY : VERTICAL

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5350	68.27	-5.73	74	56.88	34.65	10.72	33.98	101	318	Peak

Note: Worst case measurement on 5350 MHz is compliance with 74/54 dBuV/m (peak/average) limit and band edge measurement in the restricted band 5350-5460MHz. The test result is compliance with the FCC limit line.

Test Mode :	802.11n HT20	Temperature :	24~25℃
Test Band :	High	Relative Humidity :	46~47%
Test Channel :	64	Test Engineer :	Gavin Wu



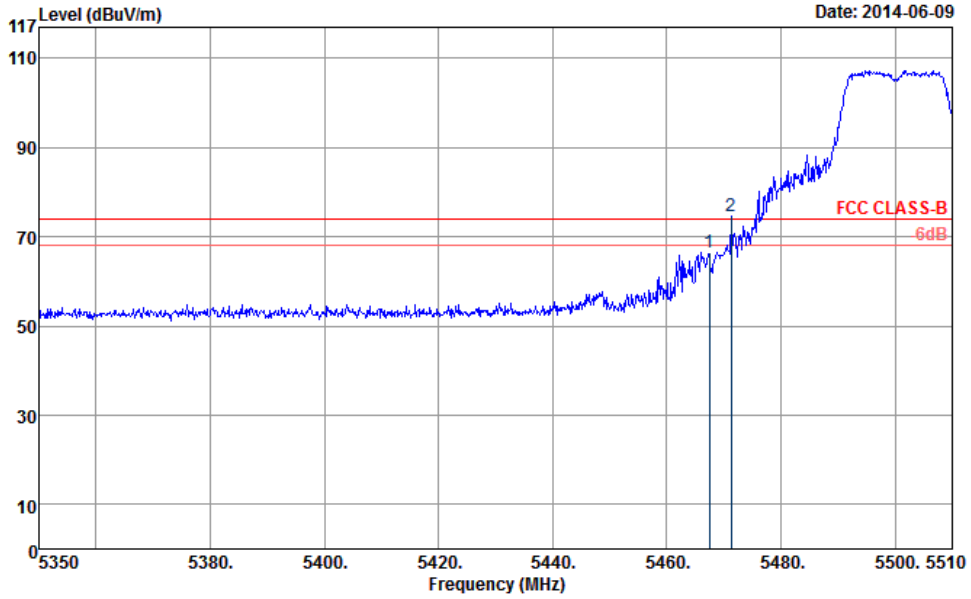
Site : 03CH06-HY
Condition : FCC CLASS-B (AVG) 3m HF-ANT_583_130802 VERTICAL

ANTENNA POLARITY : VERTICAL

Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5350	49.41	-4.59	54	38.02	34.65	10.72	33.98	101	318	Average

Note: Worst case measurement on 5350 MHz is compliance with 74/54 dBuV/m (peak/average) limit and band edge measurement in the restricted band 5350-5460MHz. The test result is compliance with the FCC limit line.

Test Mode :	802.11n HT20	Temperature :	24~25℃
Test Band :	Low	Relative Humidity :	46~47%
Test Channel :	100	Test Engineer :	Gavin Wu



Site : 03CH06-HY
Condition : FCC CLASS-B 3m HF-ANT_583_130802 HORIZONTAL

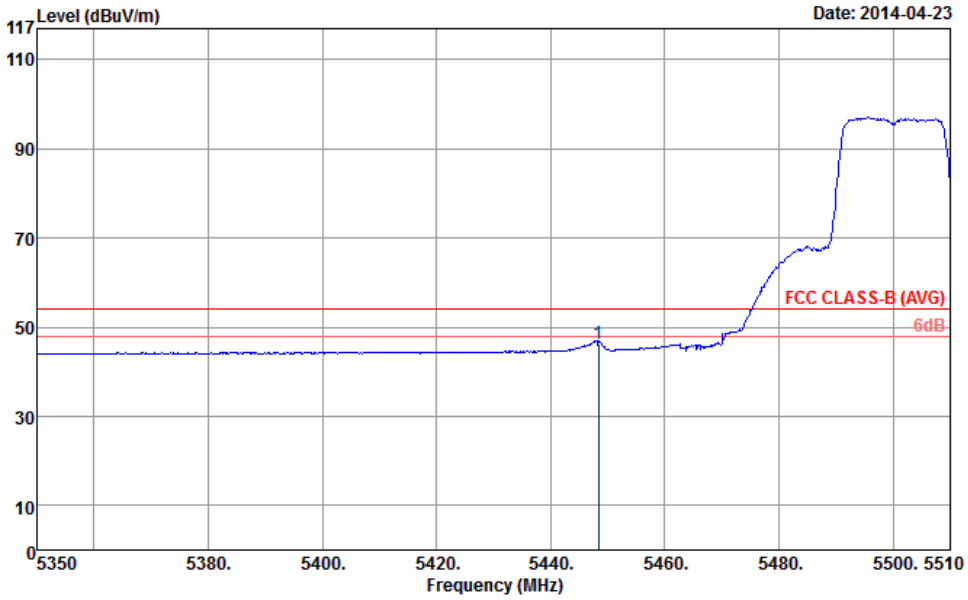
ANTENNA POLARITY : HORIZONTAL

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5467.44	66.57	-7.43	74	54.89	34.77	10.89	33.98	105	354	Peak
5471.28	74.64	-	-	62.96	34.77	10.89	33.98	105	354	Peak

Note:

1. Worst case measurement on 5467.44 MHz is compliance with 74/54 dBuV/m (peak/average) limit and band edge measurement 5460-5510MHz is within the operating band and not within the restricted band. And, 5350-5460MHz is the restricted band. Both the test results are compliance with the FCC limit line.
2. 5471.28 MHz is in-band signal which can be ignored.

Test Mode :	802.11n HT20	Temperature :	24~25℃
Test Band :	Low	Relative Humidity :	46~47%
Test Channel :	100	Test Engineer :	Gavin Wu

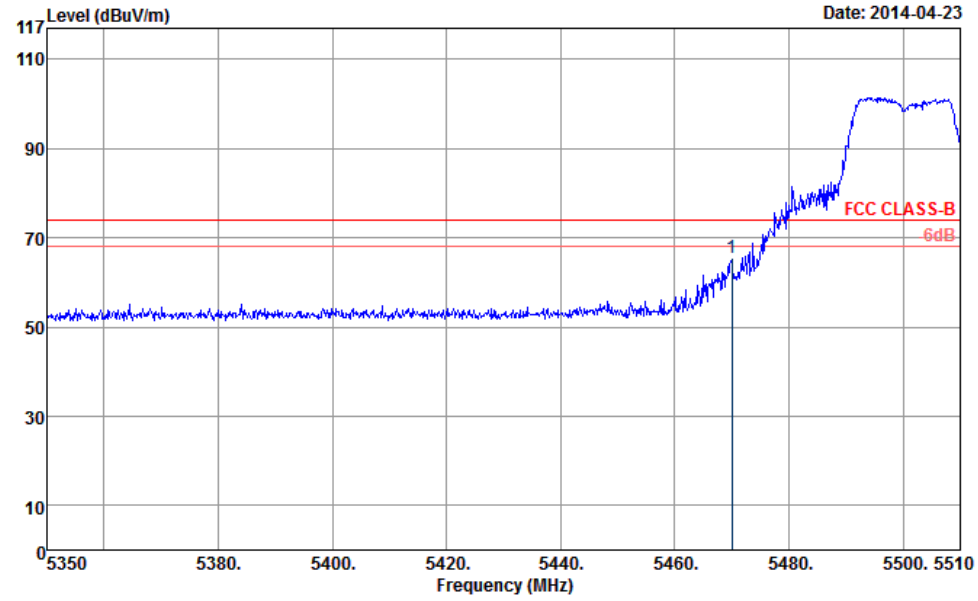


ANTENNA POLARITY : HORIZONTAL

Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5448.4	46.14	-7.86	54	34.51	34.75	10.86	33.98	105	354	Average

Note: Worst case measurement on 5448.4 MHz is compliance with 74/54 dBuV/m (peak/average) limit and band edge measurement 5460-5510MHz is within the operating band and not within the restricted band. And, 5350-5460MHz is the restricted band. Both the test results are compliance with the FCC limit line.

Test Mode :	802.11n HT20	Temperature :	24~25℃
Test Band :	Low	Relative Humidity :	46~47%
Test Channel :	100	Test Engineer :	Gavin Wu



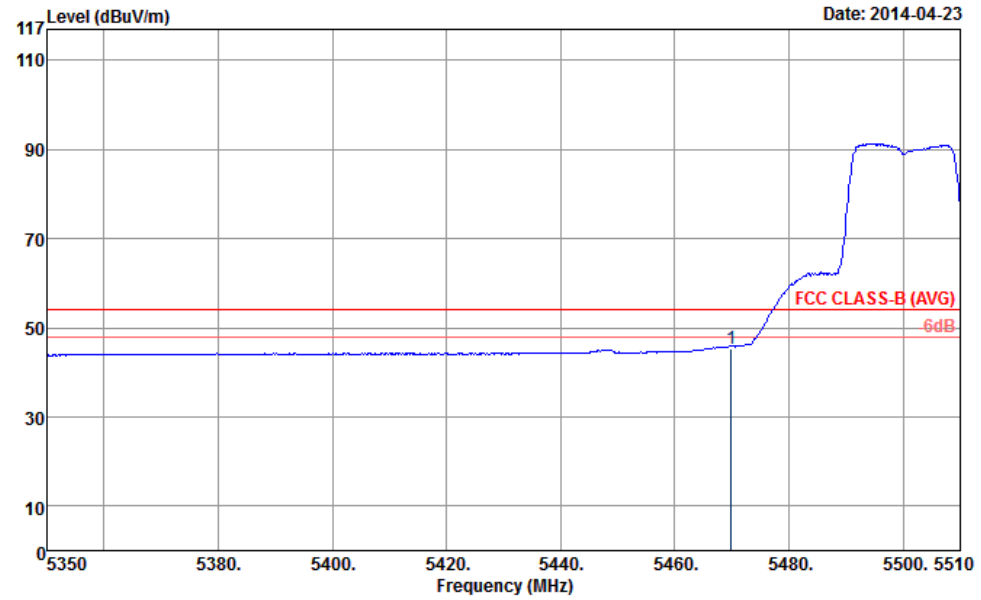
Site : 03CH06-HY
Condition : FCC CLASS-B 3m HF-ANT_583_130802 VERTICAL

ANTENNA POLARITY : VERTICAL

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5470	65.58	-8.42	74	53.9	34.77	10.89	33.98	104	102	Peak

Note: Worst case measurement on 5470 MHz is compliance with 74/54 dBuV/m (peak/average) limit and band edge measurement 5460-5510MHz is within the operating band and not within the restricted band. And, 5350-5460MHz is the restricted band. Both the test results are compliance with the FCC limit line.

Test Mode :	802.11n HT20	Temperature :	24~25℃
Test Band :	Low	Relative Humidity :	46~47%
Test Channel :	100	Test Engineer :	Gavin Wu

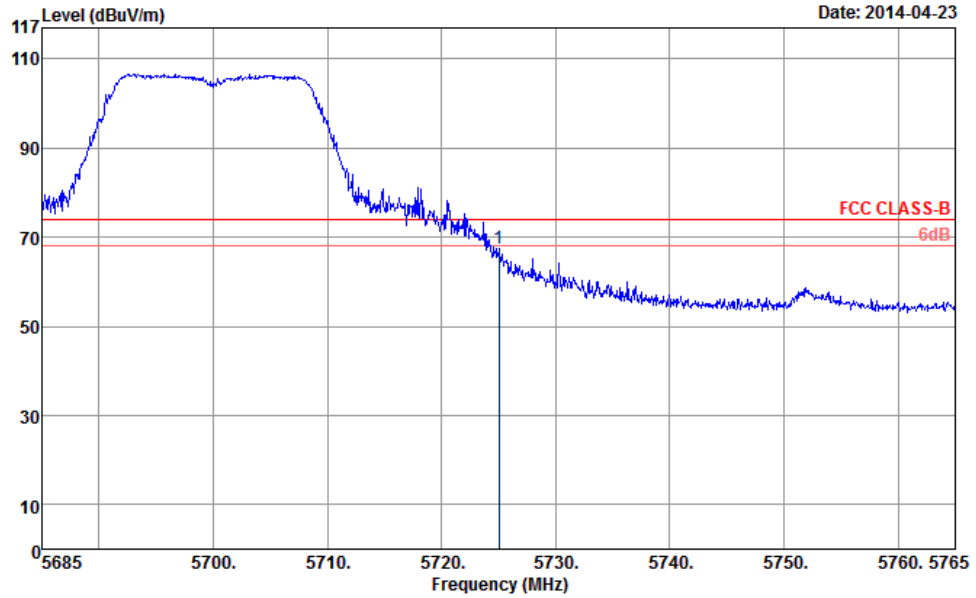


ANTENNA POLARITY : VERTICAL

Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5469.84	45.29	-8.71	54	33.61	34.77	10.89	33.98	104	102	Average

Note: Worst case measurement on 5469.84 MHz is compliance with 74/54 dBuV/m (peak/average) limit and band edge measurement 5460-5510MHz is within the operating band and not within the restricted band. And, 5350-5460MHz is the restricted band. Both the test results are compliance with the FCC limit line.

Test Mode :	802.11n HT20	Temperature :	24~25℃
Test Band :	High	Relative Humidity :	46~47%
Test Channel :	140	Test Engineer :	Gavin Wu



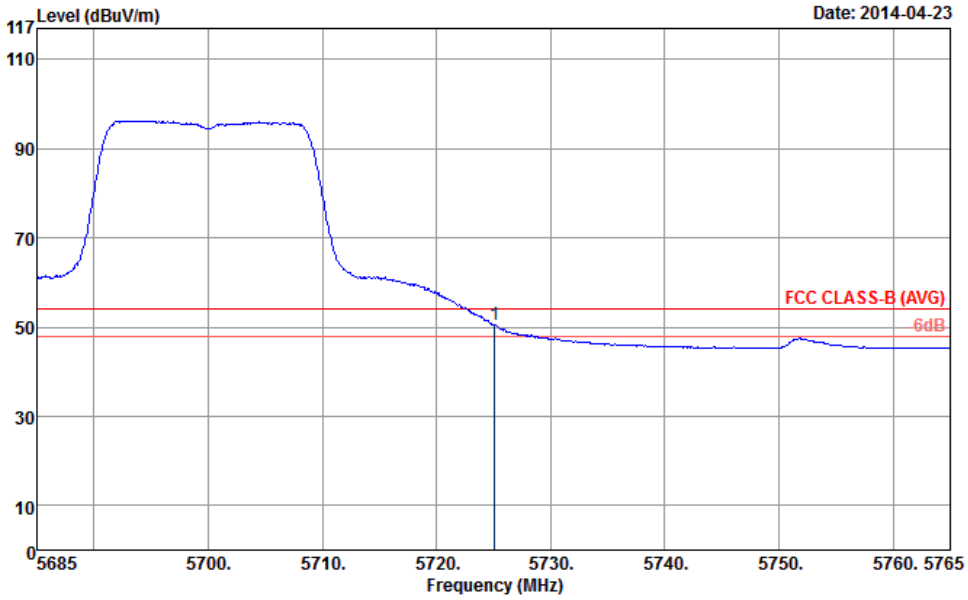
Site : 03CH06-HY
Condition : FCC CLASS-B 3m HF-ANT_583_130802 HORIZONTAL

ANTENNA POLARITY : HORIZONTAL

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5725	67.36	-6.64	74	54.99	35.02	11.34	33.99	100	300	Peak

Note: Worst case measurement on 5725 MHz is compliance with 74/54 dBuV/m (peak/average) limit and band edge measurement 5685-5765MHz is within the operating band and not within the restricted band. The test result is compliance with the FCC limit line.

Test Mode :	802.11n HT20	Temperature :	24~25℃
Test Band :	High	Relative Humidity :	46~47%
Test Channel :	140	Test Engineer :	Gavin Wu



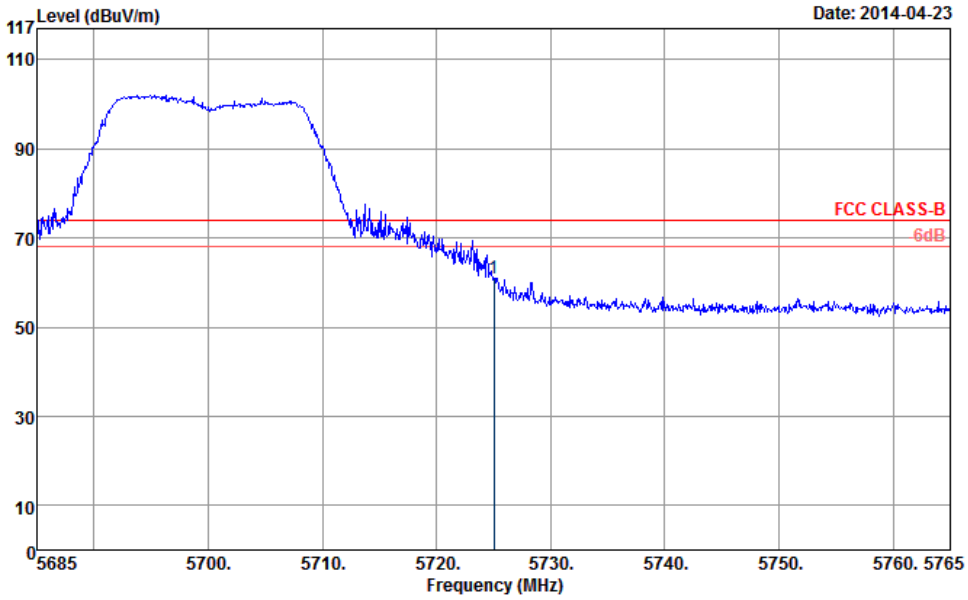
Site : 03CH06-HY
Condition : FCC CLASS-B (AVG) 3m HF-ANT_583_130802 HORIZONTAL

ANTENNA POLARITY : HORIZONTAL

Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5725.08	50.51	-3.49	54	38.14	35.02	11.34	33.99	100	300	Average

Note: Worst case measurement on 5725.08 MHz is compliance with 74/54 dBuV/m (peak/average) limit and band edge measurement 5685-5765MHz is within the operating band and not within the restricted band. The test result is compliance with the FCC limit line.

Test Mode :	802.11n HT20	**Temperature :**	24~25℃
Test Band :	High	**Relative Humidity :**	46~47%
Test Channel :	140	**Test Engineer :**	Gavin Wu



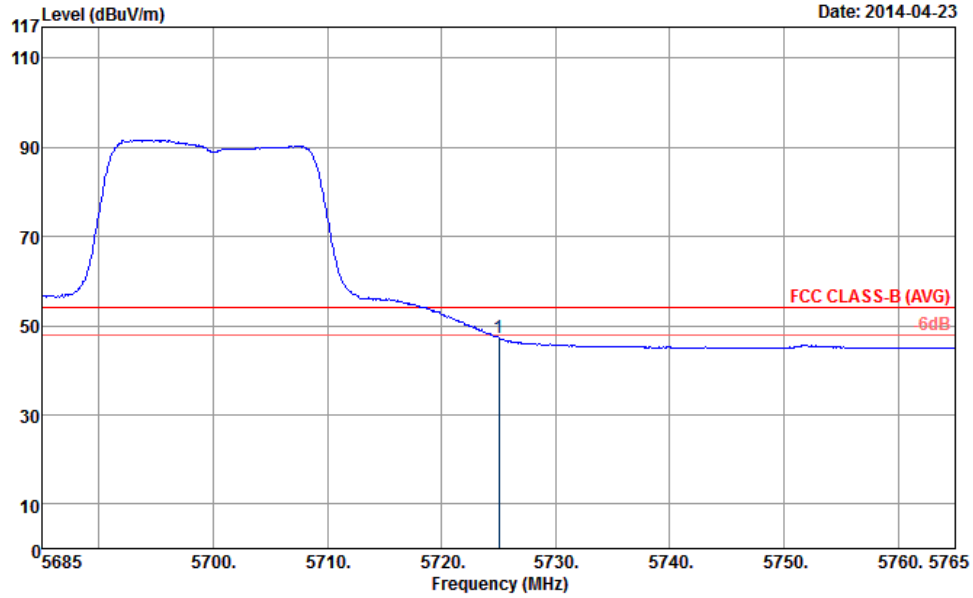
Site : 03CH06-HY
Condition : FCC CLASS-B 3m HF-ANT_583_130802 VERTICAL

ANTENNA POLARITY : VERTICAL

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5725	61.07	-12.93	74	48.7	35.02	11.34	33.99	100	99	Peak

Note: Worst case measurement on 5725 MHz is compliance with 74/54 dBuV/m (peak/average) limit and band edge measurement 5685-5765MHz is within the operating band and not within the restricted band. The test result is compliance with the FCC limit line.

Test Mode :	802.11n HT20	Temperature :	24~25℃
Test Band :	High	Relative Humidity :	46~47%
Test Channel :	140	Test Engineer :	Gavin Wu



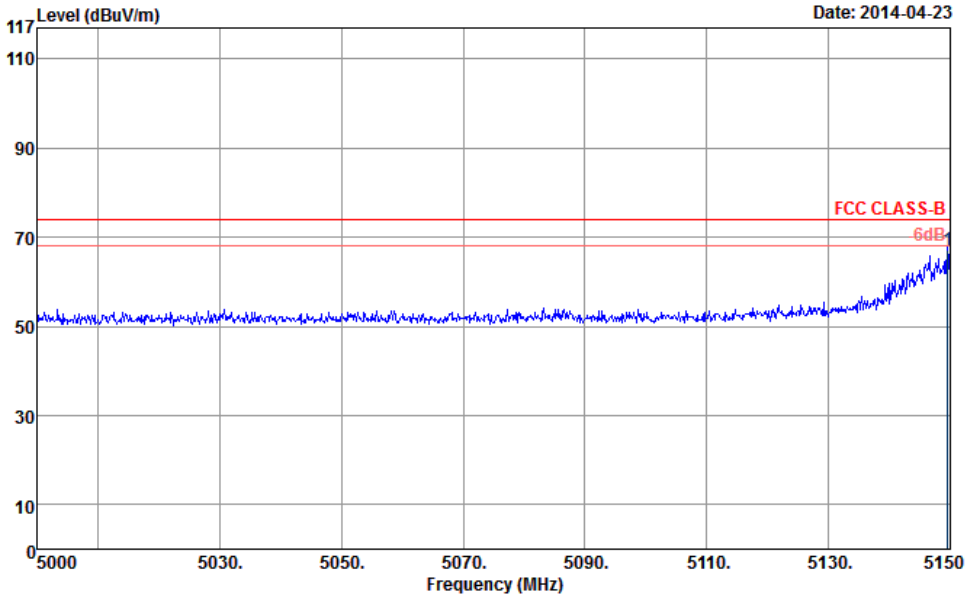
Site : 03CH06-HY
Condition : FCC CLASS-B (AVG) 3m HF-ANT_583_130802 VERTICAL

ANTENNA POLARITY : VERTICAL

Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5725	47.31	-6.69	54	34.94	35.02	11.34	33.99	100	99	Average

Note: Worst case measurement on 5725 MHz is compliance with 74/54 dBuV/m (peak/average) limit and band edge measurement 5685-5765MHz is within the operating band and not within the restricted band. The test result is compliance with the FCC limit line.

Test Mode :	802.11n HT40	Temperature :	24~25℃
Test Band :	Low	Relative Humidity :	46~47%
Test Channel :	38	Test Engineer :	Gavin Wu



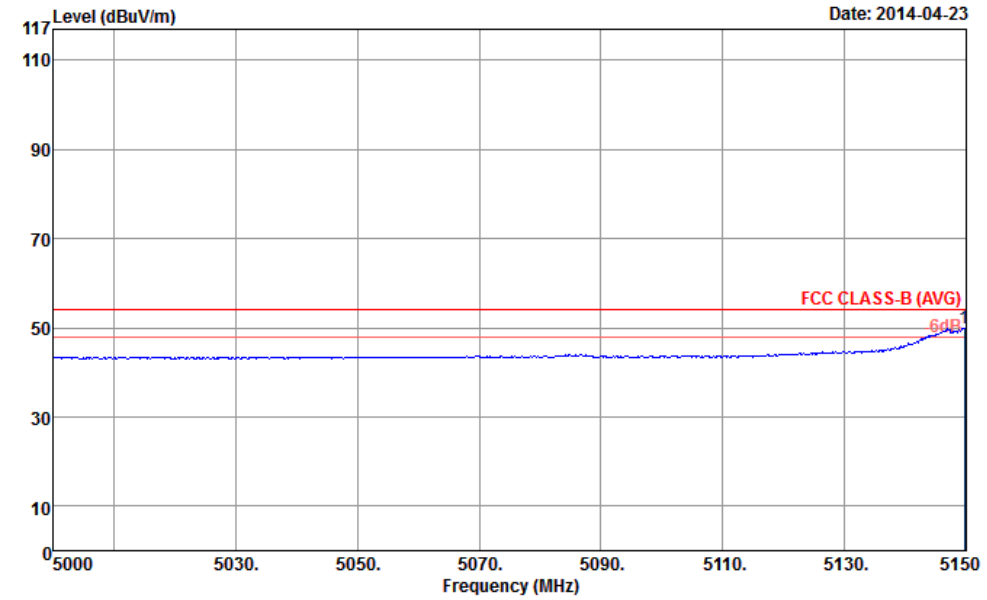
Site : 03CH06-HY
Condition : FCC CLASS-B 3m HF-ANT_583_130802 HORIZONTAL

ANTENNA POLARITY : HORIZONTAL

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5149.55	67.18	-6.82	74	56.28	34.45	10.44	33.99	100	354	Peak

Note: Worst case measurement on 5149.55 MHz is compliance with 74/54 dBuV/m (peak/average) limit and band edge measurement in the restricted band 5000-5150MHz. The test result is compliance with the FCC limit line.

Test Mode :	802.11n HT40	Temperature :	24~25℃
Test Band :	Low	Relative Humidity :	46~47%
Test Channel :	38	Test Engineer :	Gavin Wu

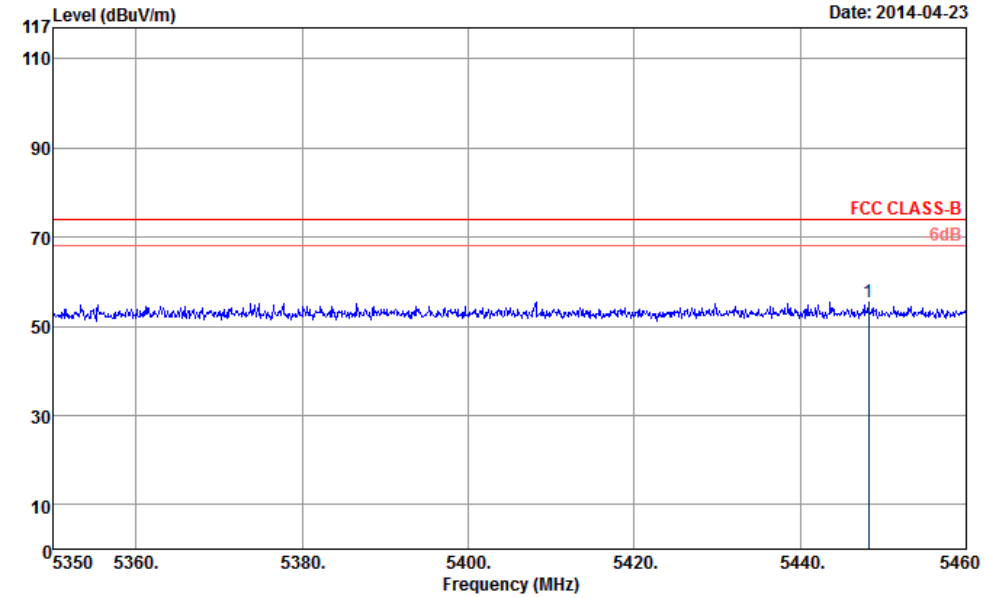


ANTENNA POLARITY : HORIZONTAL

Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5149.7	49.76	-4.24	54	38.86	34.45	10.44	33.99	100	354	Average

Note: Worst case measurement on 5149.7 MHz is compliance with 74/54 dBuV/m (peak/average) limit and band edge measurement in the restricted band 5000-5150MHz. The test result is compliance with the FCC limit line.

Test Mode :	802.11n HT40	Temperature :	24~25℃
Test Band :	Low	Relative Humidity :	46~47%
Test Channel :	38	Test Engineer :	Gavin Wu



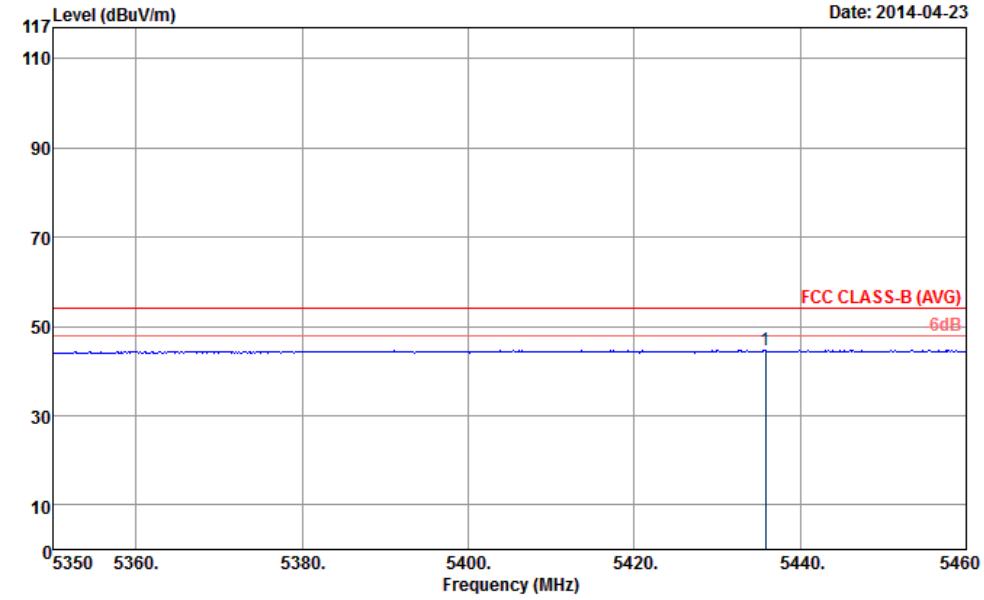
Site : 03CH06-HY
Condition : FCC CLASS-B 3m HF-ANT_583_130802 HORIZONTAL

ANTENNA POLARITY : HORIZONTAL

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5448.23	55.42	-18.58	74	43.79	34.75	10.86	33.98	100	354	Peak

Note: Worst case measurement on 5448.23 MHz is compliance with 74/54 dBuV/m (peak/average) limit and band edge measurement in the restricted band 5350-5460MHz. The test result is compliance with the FCC limit line.

Test Mode :	802.11n HT40	Temperature :	24~25℃
Test Band :	Low	Relative Humidity :	46~47%
Test Channel :	38	Test Engineer :	Gavin Wu

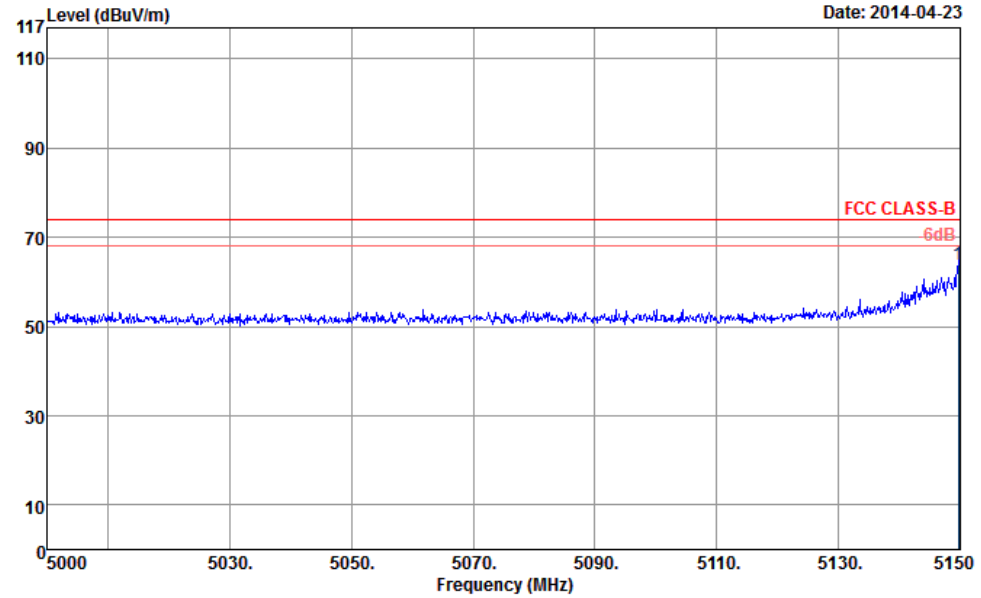


ANTENNA POLARITY : HORIZONTAL

Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5435.8	44.71	-9.29	54	33.1	34.73	10.86	33.98	100	354	Average

Note: Worst case measurement on 5435.8 MHz is compliance with 74/54 dBuV/m (peak/average) limit and band edge measurement in the restricted band 5350-5460MHz. The test result is compliance with the FCC limit line.

Test Mode :	802.11n HT40	Temperature :	24~25℃
Test Band :	Low	Relative Humidity :	46~47%
Test Channel :	38	Test Engineer :	Gavin Wu



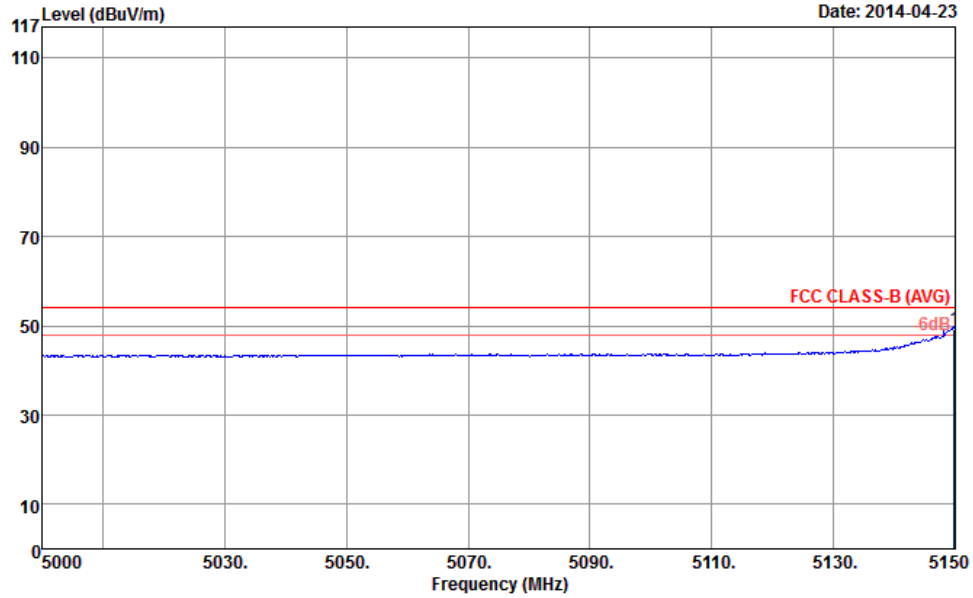
Site : 03CH06-HY
Condition : FCC CLASS-B 3m HF-ANT_583_130802 VERTICAL

ANTENNA POLARITY : VERTICAL

Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5149.7	64.01	-9.99	74	53.11	34.45	10.44	33.99	110	98	Peak

Note: Worst case measurement on 5149.7 MHz is compliance with 74/54 dBuV/m (peak/average) limit and band edge measurement in the restricted band 5000-5150MHz. The test result is compliance with the FCC limit line.

Test Mode :	802.11n HT40	Temperature :	24~25℃
Test Band :	Low	Relative Humidity :	46~47%
Test Channel :	38	Test Engineer :	Gavin Wu



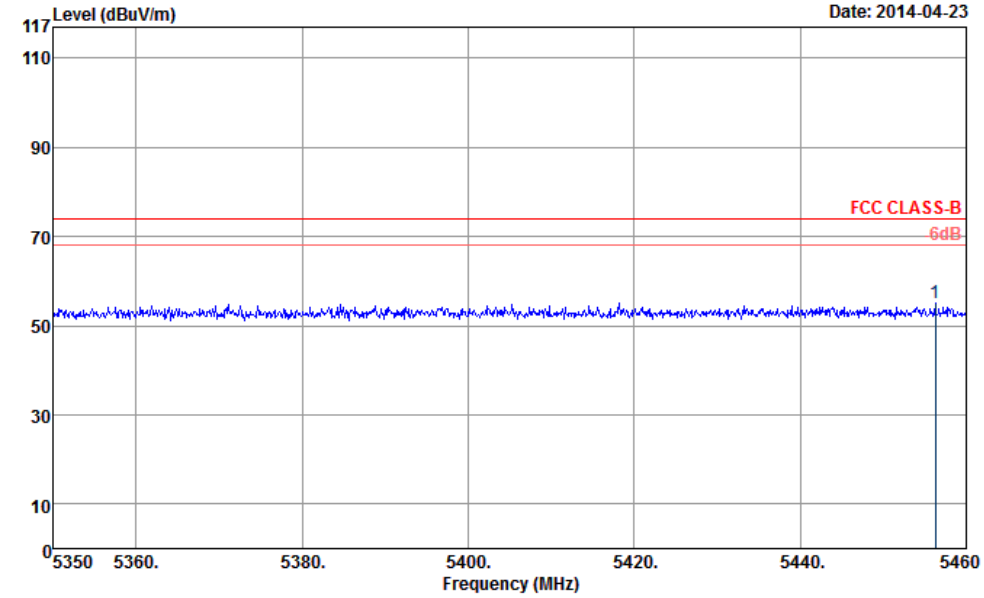
Site : 03CH06-HY
Condition : FCC CLASS-B (AVG) 3m HF-ANT 583 130802 VERTICAL

ANTENNA POLARITY : VERTICAL

Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5149.85	49.33	-4.67	54	38.43	34.45	10.44	33.99	110	98	Average

Note: Worst case measurement on 5149.85 MHz is compliance with 74/54 dBuV/m (peak/average) limit and band edge measurement in the restricted band 5000-5150MHz. The test result is compliance with the FCC limit line.

Test Mode :	802.11n HT40	Temperature :	24~25℃
Test Band :	Low	Relative Humidity :	46~47%
Test Channel :	38	Test Engineer :	Gavin Wu



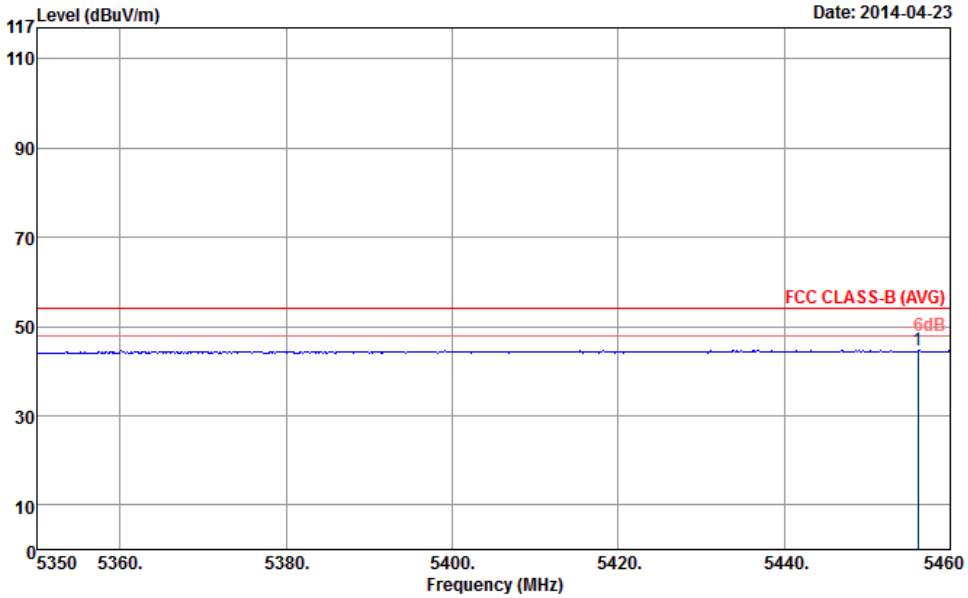
Site : 03CH06-HY
Condition : FCC CLASS-B 3m HF-ANT_583_130802 VERTICAL

ANTENNA POLARITY : VERTICAL

Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5456.26	55.13	-18.87	74	43.47	34.75	10.89	33.98	110	98	Peak

Note: Worst case measurement on 5456.26 MHz is compliance with 74/54 dBuV/m (peak/average) limit and band edge measurement in the restricted band 5350-5460MHz. The test result is compliance with the FCC limit line.

Test Mode :	802.11n HT40	Temperature :	24~25℃
Test Band :	Low	Relative Humidity :	46~47%
Test Channel :	38	Test Engineer :	Gavin Wu



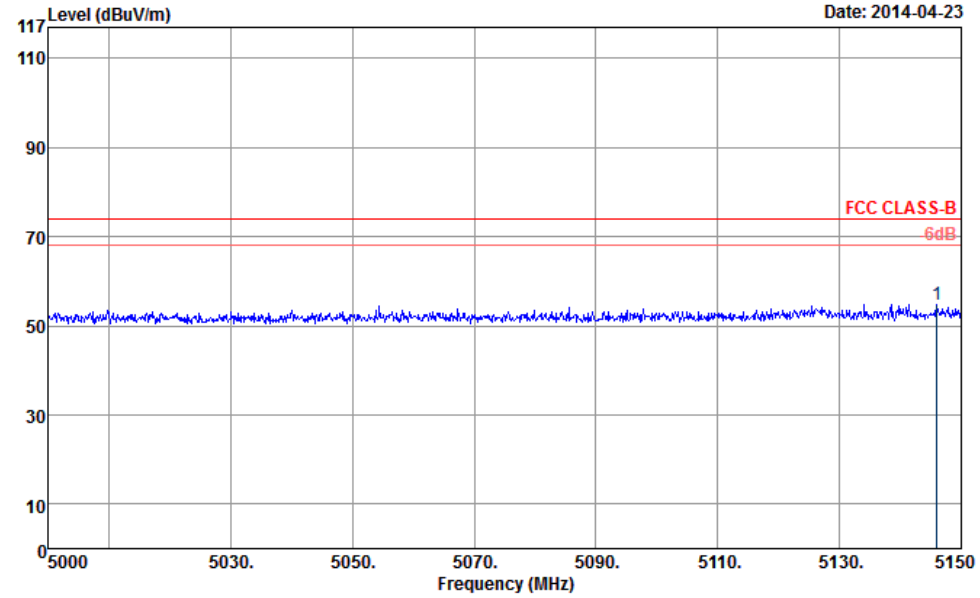
Site : 03CH06-HY
Condition : FCC CLASS-B (AVG) 3m HF-ANT_583_130802 VERTICAL

ANTENNA POLARITY : VERTICAL

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5456.15	44.59	-9.41	54	32.93	34.75	10.89	33.98	110	98	Average

Note: Worst case measurement on 5456.15 MHz is compliance with 74/54 dBuV/m (peak/average) limit and band edge measurement in the restricted band 5350-5460MHz. The test result is compliance with the FCC limit line.

Test Mode :	802.11n HT40	Temperature :	24~25℃
Test Band :	High	Relative Humidity :	46~47%
Test Channel :	46	Test Engineer :	Gavin Wu



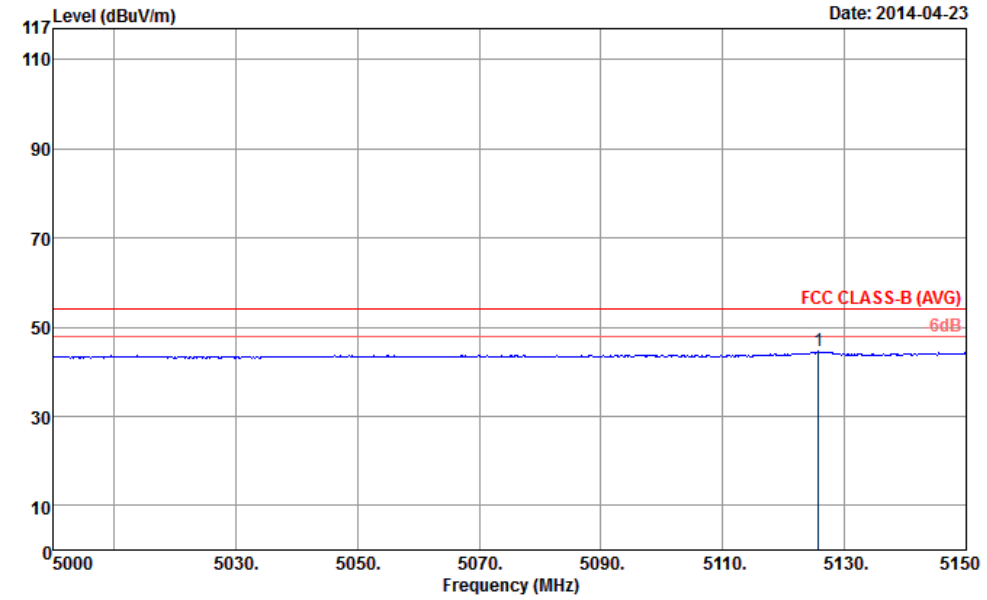
Site : 03CH06-HY
Condition : FCC CLASS-B 3m HF-ANT_583_130802 HORIZONTAL

ANTENNA POLARITY : HORIZONTAL

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5145.95	54.7	-19.3	74	43.8	34.45	10.44	33.99	100	313	Peak

Note: Worst case measurement on 5145.95 MHz is compliance with 74/54 dBuV/m (peak/average) limit and band edge measurement in the restricted band 5000-5150MHz. The test result is compliance with the FCC limit line.

Test Mode :	802.11n HT40	Temperature :	24~25℃
Test Band :	High	Relative Humidity :	46~47%
Test Channel :	46	Test Engineer :	Gavin Wu



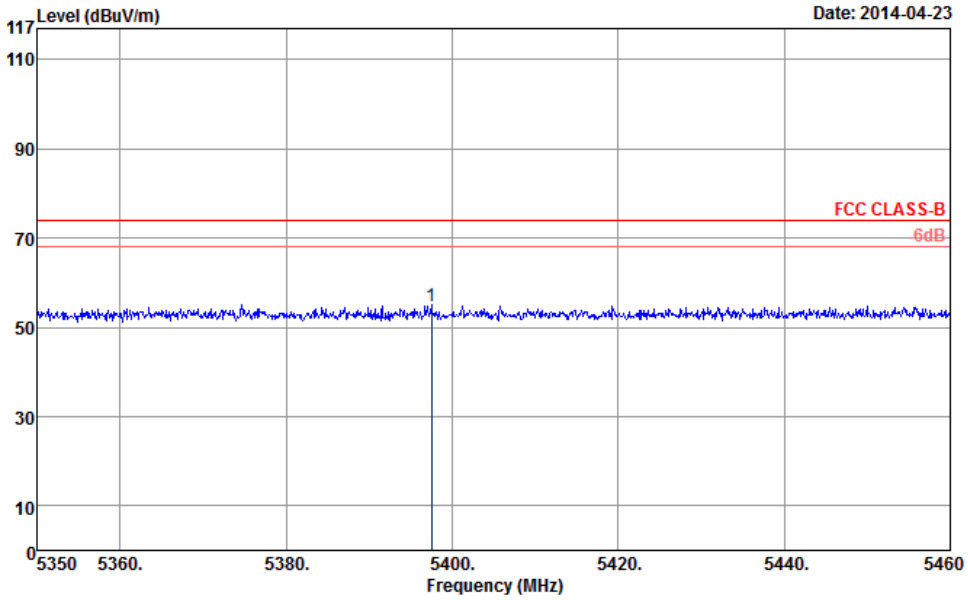
Site : 03CH06-HY
Condition : FCC CLASS-B (AVG) 3m HF-ANT_583_130802 HORIZONTAL

ANTENNA POLARITY : HORIZONTAL

Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5125.7	44.49	-9.51	54	33.65	34.43	10.4	33.99	100	313	Average

Note: Worst case measurement on 5125.7 MHz is compliance with 74/54 dBuV/m (peak/average) limit and band edge measurement in the restricted band 5000-5150MHz. The test result is compliance with the FCC limit line.

Test Mode :	802.11n HT40	Temperature :	24~25℃
Test Band :	High	Relative Humidity :	46~47%
Test Channel :	46	Test Engineer :	Gavin Wu

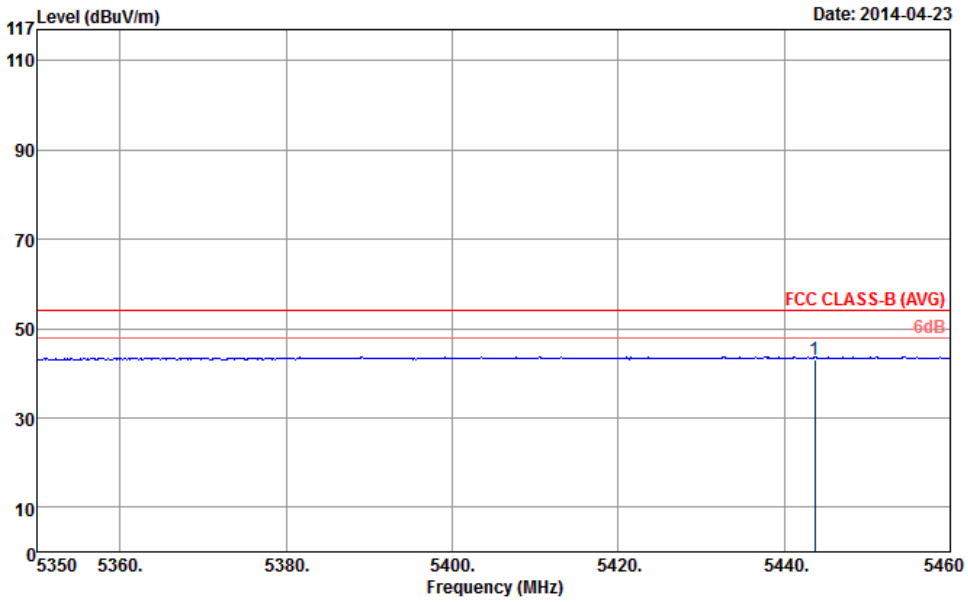


ANTENNA POLARITY : HORIZONTAL

Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5397.52	54.7	-19.3	74	43.19	34.7	10.79	33.98	100	313	Peak

Note: Worst case measurement on 5397.52 MHz is compliance with 74/54 dBuV/m (peak/average) limit and band edge measurement in the restricted band 5350-5460MHz. The test result is compliance with the FCC limit line.

Test Mode :	802.11n HT40	Temperature :	24~25℃
Test Band :	High	Relative Humidity :	46~47%
Test Channel :	46	Test Engineer :	Gavin Wu

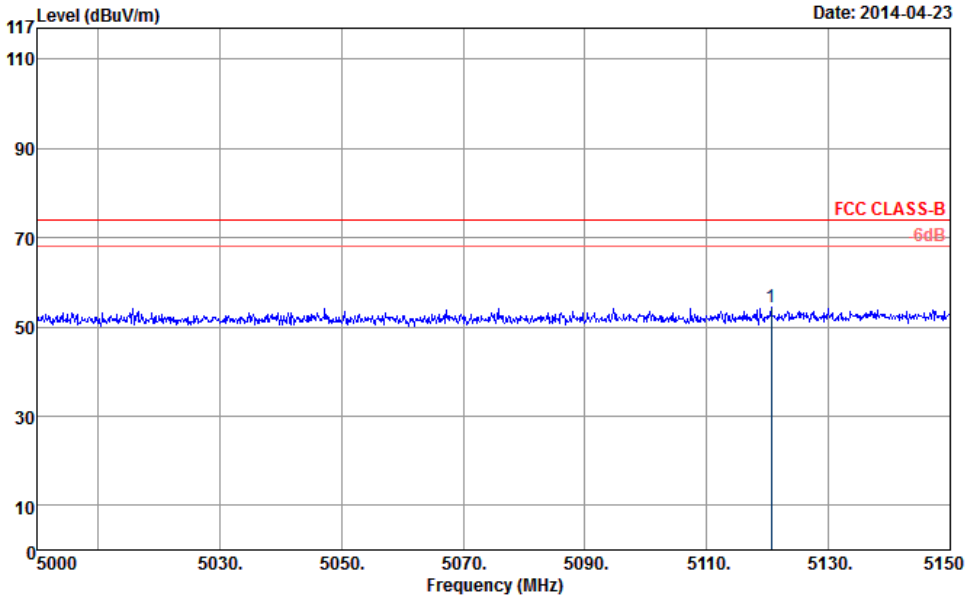


ANTENNA POLARITY : HORIZONTAL

Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5443.72	43.03	-10.97	54	31.42	34.73	10.86	33.98	100	313	Average

Note: Worst case measurement on 5443.72 MHz is compliance with 74/54 dBuV/m (peak/average) limit and band edge measurement in the restricted band 5350-5460MHz. The test result is compliance with the FCC limit line.

Test Mode :	802.11n HT40	Temperature :	24~25℃
Test Band :	High	Relative Humidity :	46~47%
Test Channel :	46	Test Engineer :	Gavin Wu



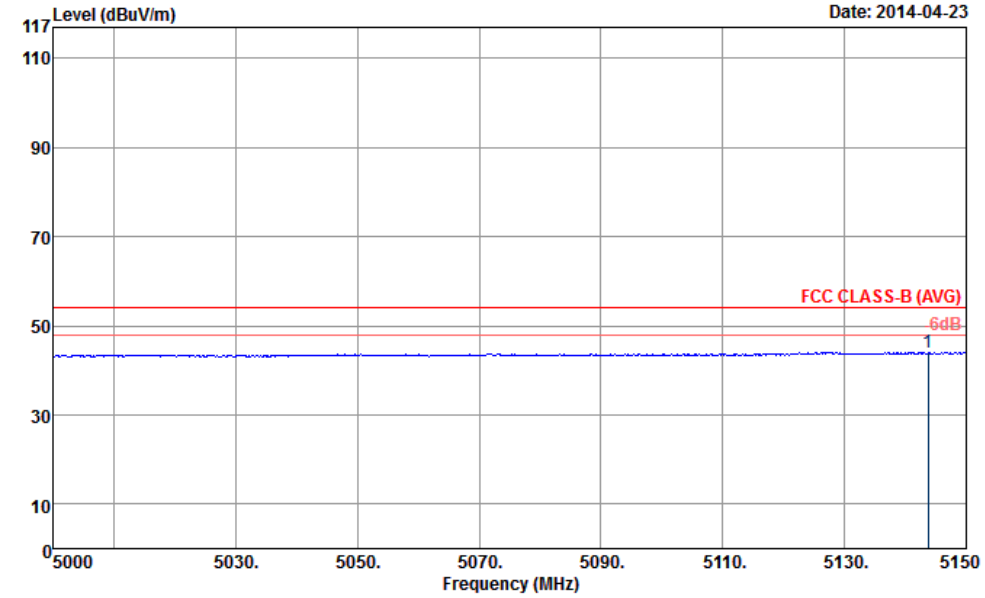
Site : 03CH06-HY
Condition : FCC CLASS-B 3m HF-ANT_583_130802 VERTICAL

ANTENNA POLARITY : VERTICAL

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5120.6	54.57	-19.43	74	43.74	34.42	10.4	33.99	110	98	Peak

Note: Worst case measurement on 5120.6 MHz is compliance with 74/54 dBuV/m (peak/average) limit and band edge measurement in the restricted band 5000-5150MHz. The test result is compliance with the FCC limit line.

Test Mode :	802.11n HT40	Temperature :	24~25℃
Test Band :	High	Relative Humidity :	46~47%
Test Channel :	46	Test Engineer :	Gavin Wu

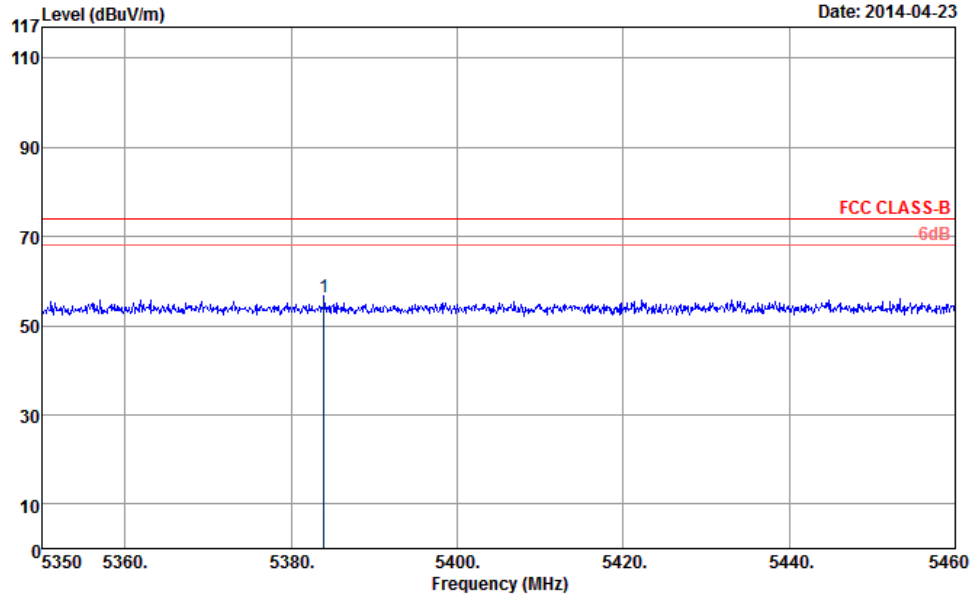


ANTENNA POLARITY : VERTICAL

Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5143.7	44.06	-9.94	54	33.16	34.45	10.44	33.99	110	98	Average

Note: Worst case measurement on 5143.7 MHz is compliance with 74/54 dBuV/m (peak/average) limit and band edge measurement in the restricted band 5000-5150MHz. The test result is compliance with the FCC limit line.

Test Mode :	802.11n HT40	Temperature :	24~25℃
Test Band :	High	Relative Humidity :	46~47%
Test Channel :	46	Test Engineer :	Gavin Wu



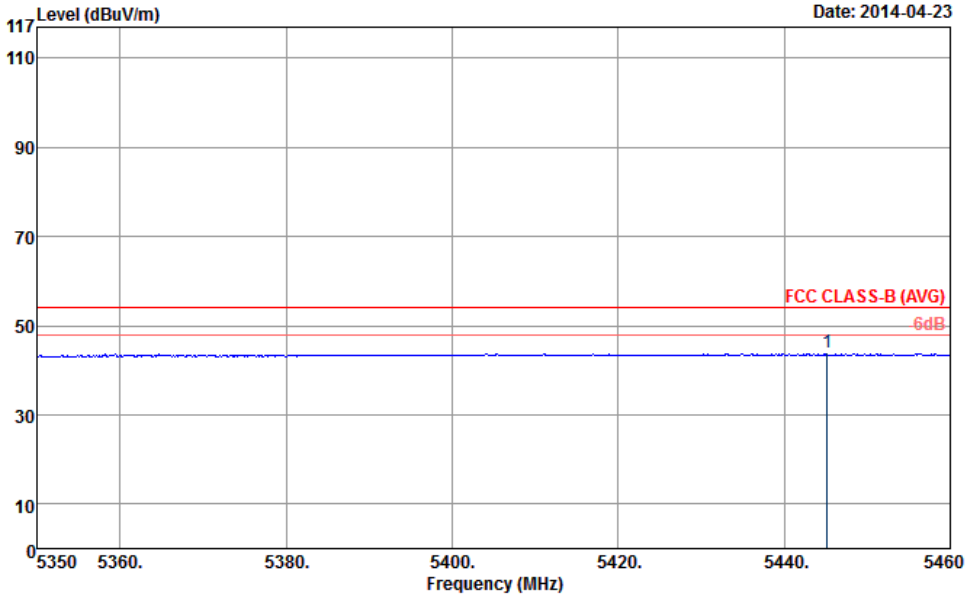
Site : 03CH06-HY
Condition : FCC CLASS-B 3m HF-ANT_583_130802 VERTICAL

ANTENNA POLARITY : VERTICAL

Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5383.99	56.42	-17.58	74	44.93	34.68	10.79	33.98	110	98	Peak

Note: Worst case measurement on 5383.99 MHz is compliance with 74/54 dBuV/m (peak/average) limit and band edge measurement in the restricted band 5350-5460MHz. The test result is compliance with the FCC limit line.

Test Mode :	802.11n HT40	Temperature :	24~25℃
Test Band :	High	Relative Humidity :	46~47%
Test Channel :	46	Test Engineer :	Gavin Wu



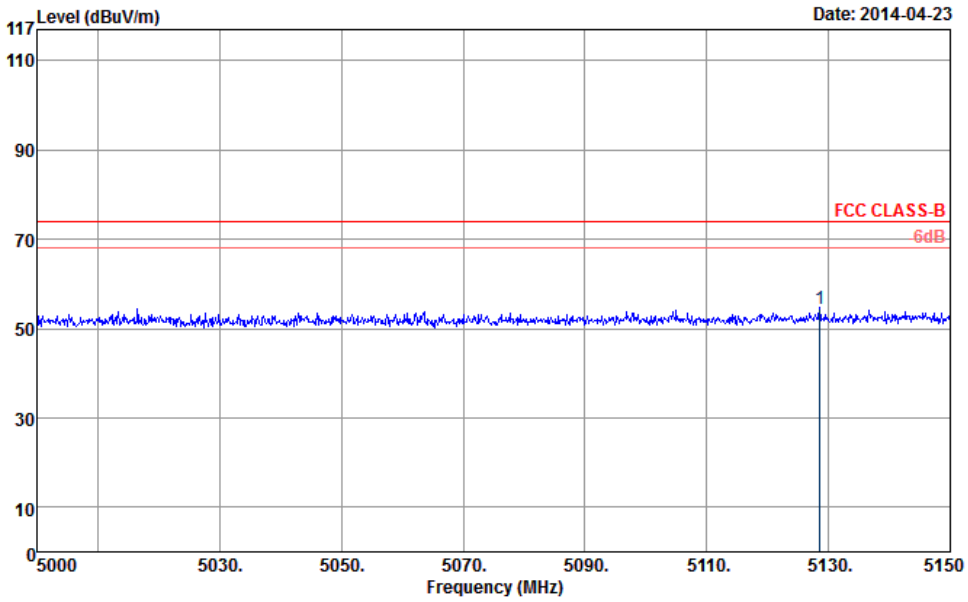
Site : 03CH06-HY
Condition : FCC CLASS-B (AVG) 3m HF-ANT_583_130802 VERTICAL

ANTENNA POLARITY : VERTICAL

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5445.15	43.84	-10.16	54	32.23	34.73	10.86	33.98	110	98	Average

Note: Worst case measurement on 5445.15 MHz is compliance with 74/54 dBuV/m (peak/average) limit and band edge measurement in the restricted band 5350-5460MHz. The test result is compliance with the FCC limit line.

Test Mode :	802.11n HT40	Temperature :	24~25℃
Test Band :	Low	Relative Humidity :	46~47%
Test Channel :	54	Test Engineer :	Gavin Wu



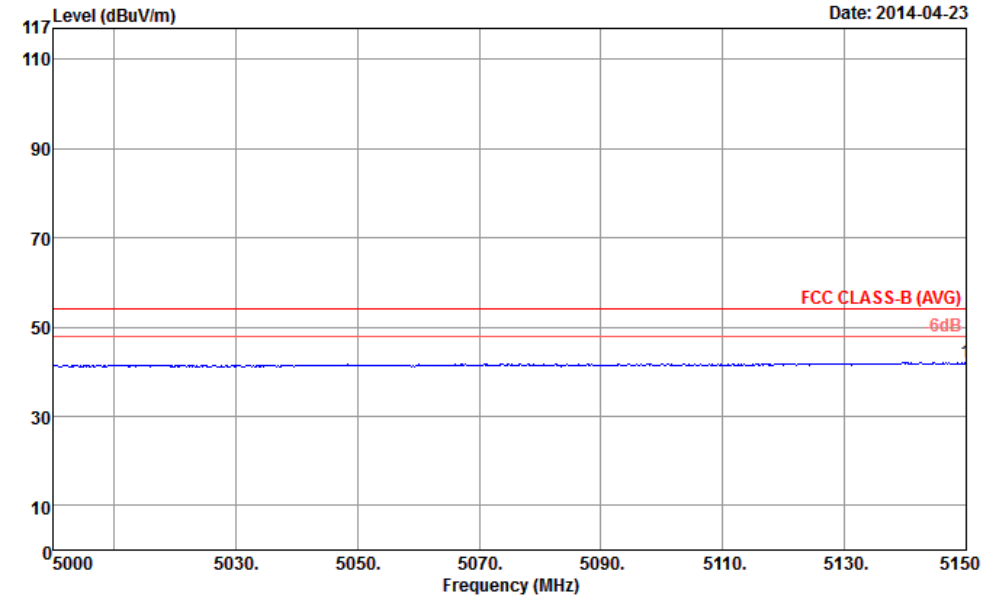
Site : 03CH06-HY
Condition : FCC CLASS-B 3m HF-ANT_583_130802 HORIZONTAL

ANTENNA POLARITY : HORIZONTAL

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5128.55	54.28	-19.72	74	43.44	34.43	10.4	33.99	100	358	Peak

Note: Worst case measurement on 5128.55 MHz is compliance with 74/54 dBuV/m (peak/average) limit and band edge measurement in the restricted band 5000-5150MHz. The test result is compliance with the FCC limit line.

Test Mode :	802.11n HT40	Temperature :	24~25℃
Test Band :	Low	Relative Humidity :	46~47%
Test Channel :	54	Test Engineer :	Gavin Wu

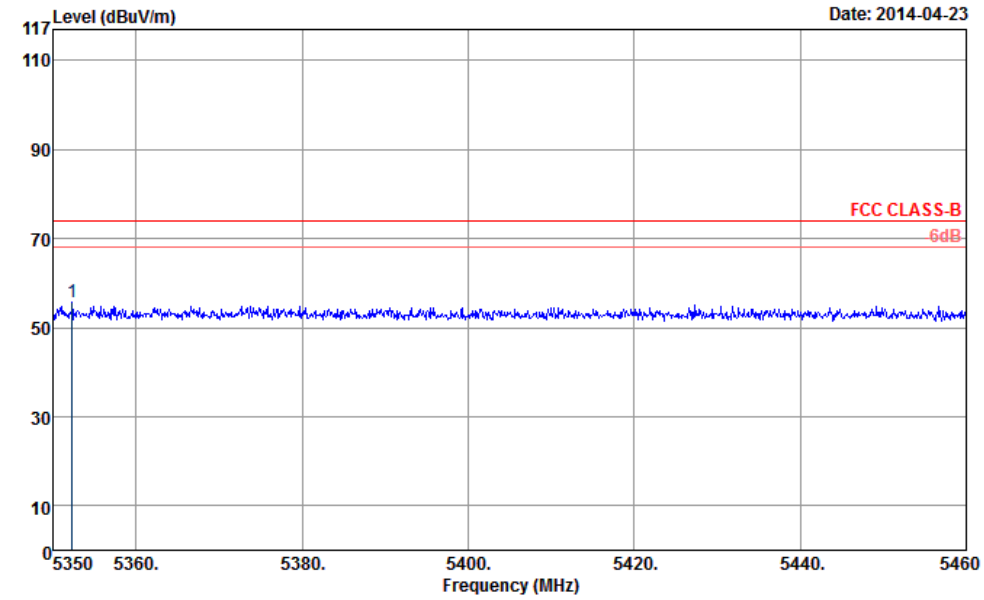


ANTENNA POLARITY : HORIZONTAL

Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5150	42.19	-11.81	54	31.29	34.45	10.44	33.99	100	358	Average

Note: Worst case measurement on 5150 MHz is compliance with 74/54 dBuV/m (peak/average) limit and band edge measurement in the restricted band 5000-5150MHz. The test result is compliance with the FCC limit line.

Test Mode :	802.11n HT40	Temperature :	24~25℃
Test Band :	Low	Relative Humidity :	46~47%
Test Channel :	54	Test Engineer :	Gavin Wu

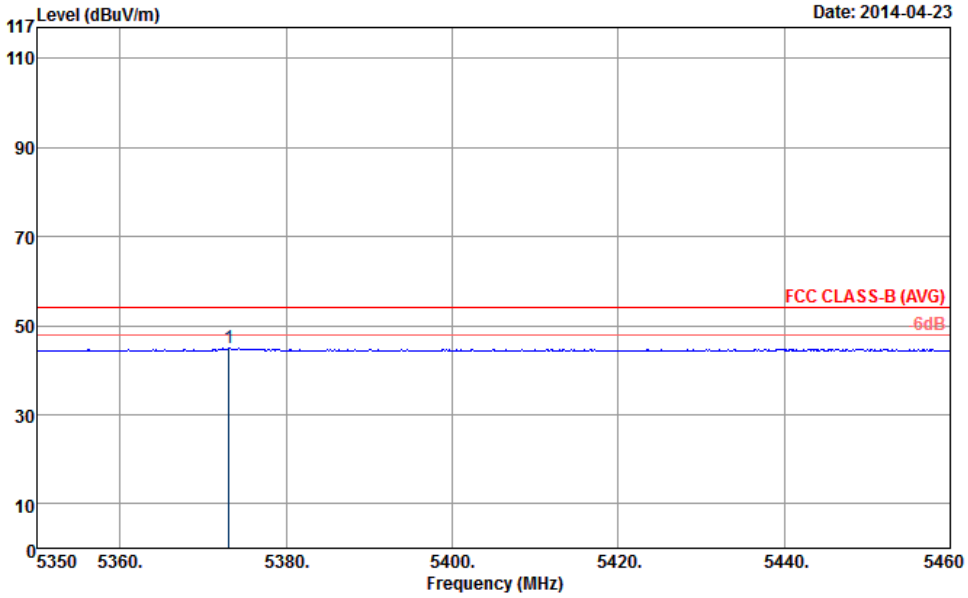


ANTENNA POLARITY : HORIZONTAL

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5352.31	55.86	-18.14	74	44.47	34.65	10.72	33.98	100	358	Peak

Note: Worst case measurement on 5352.31 MHz is compliance with 74/54 dBuV/m (peak/average) limit and band edge measurement in the restricted band 5350-5460MHz. The test result is compliance with the FCC limit line.

Test Mode :	802.11n HT40	Temperature :	24~25℃
Test Band :	Low	Relative Humidity :	46~47%
Test Channel :	54	Test Engineer :	Gavin Wu

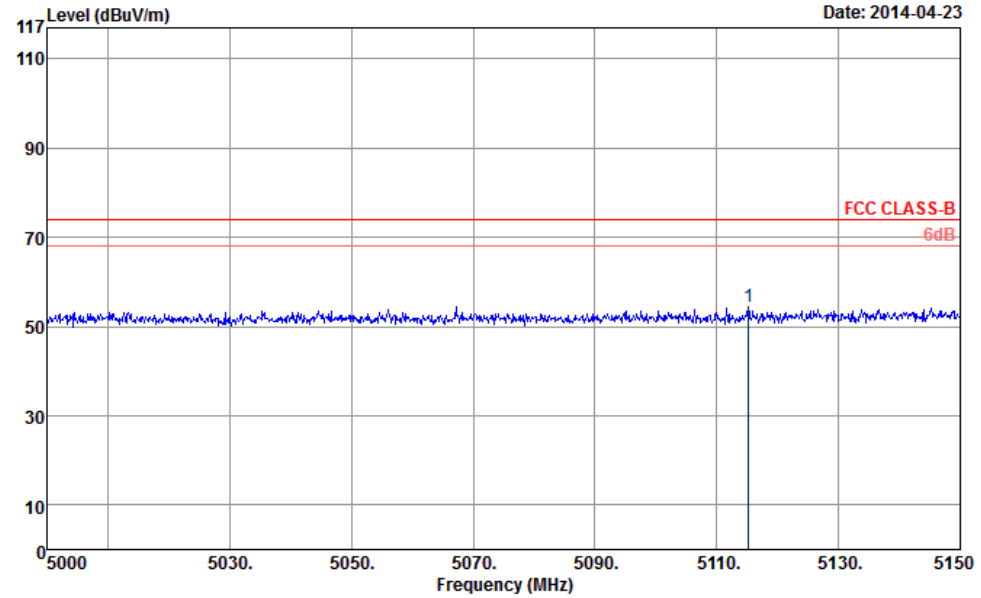


ANTENNA POLARITY : HORIZONTAL

Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5373.1	44.96	-9.04	54	33.52	34.67	10.75	33.98	100	358	Average

Note: Worst case measurement on 5373.1 MHz is compliance with 74/54 dBuV/m (peak/average) limit and band edge measurement in the restricted band 5350-5460MHz. The test result is compliance with the FCC limit line.

Test Mode :	802.11n HT40	Temperature :	24~25℃
Test Band :	Low	Relative Humidity :	46~47%
Test Channel :	54	Test Engineer :	Gavin Wu



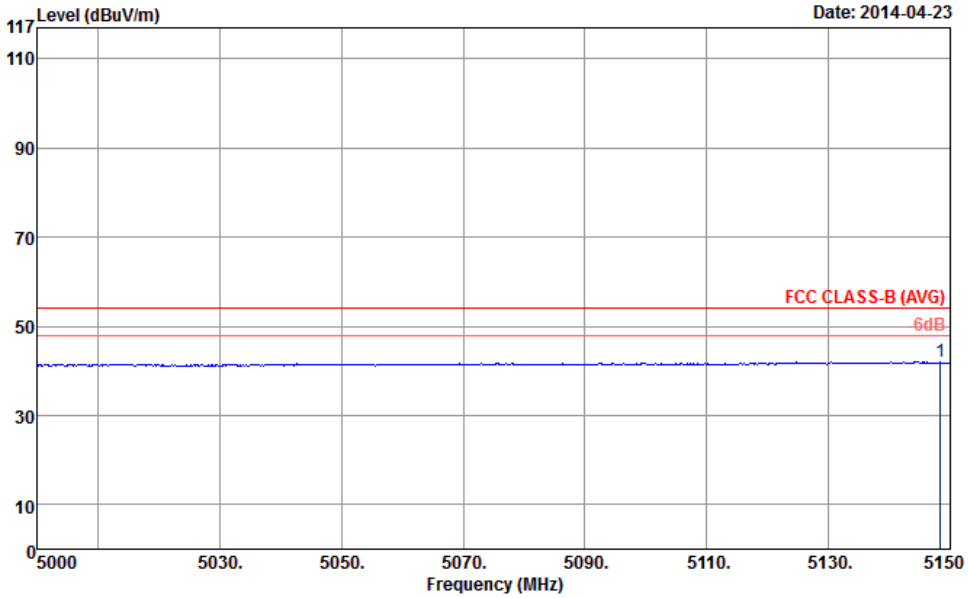
Site : 03CH06-HY
Condition : FCC CLASS-B 3m HF-ANT_583_130802 VERTICAL

ANTENNA POLARITY : VERTICAL

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5115.2	54.53	-19.47	74	43.73	34.42	10.37	33.99	108	103	Peak

Note: Worst case measurement on 5115.2 MHz is compliance with 74/54 dBuV/m (peak/average) limit and band edge measurement in the restricted band 5000-5150MHz. The test result is compliance with the FCC limit line.

Test Mode :	802.11n HT40	Temperature :	24~25℃
Test Band :	Low	Relative Humidity :	46~47%
Test Channel :	54	Test Engineer :	Gavin Wu



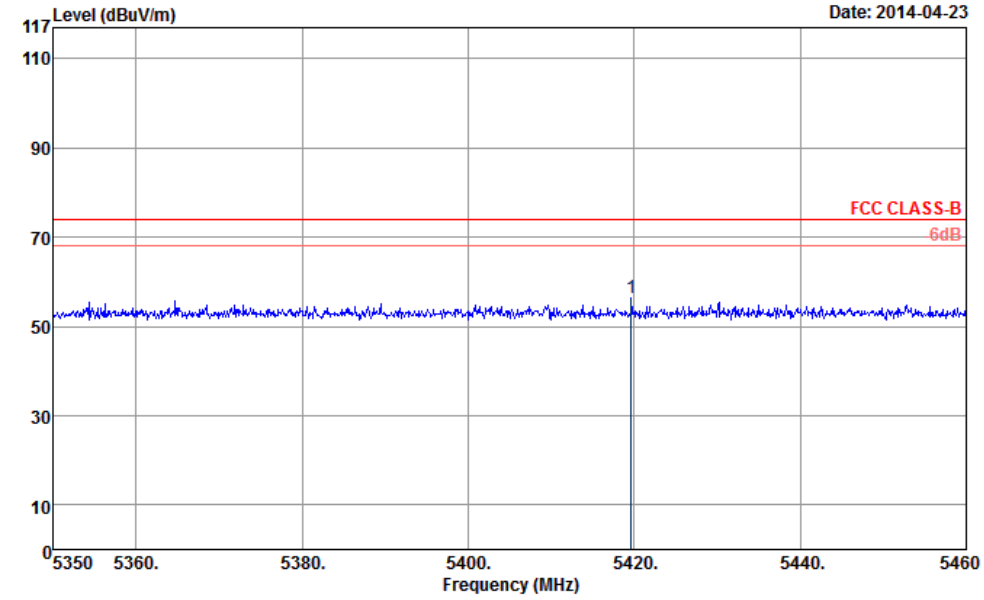
Site : 03CH06-HY
Condition : FCC CLASS-B (AVG) 3m HF-ANT_583_130802 VERTICAL

ANTENNA POLARITY : VERTICAL

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5148.35	41.9	-12.1	54	31	34.45	10.44	33.99	108	103	Average

Note: Worst case measurement on 5148.35 MHz is compliance with 74/54 dBuV/m (peak/average) limit and band edge measurement in the restricted band 5000-5150MHz. The test result is compliance with the FCC limit line.

Test Mode :	802.11n HT40	Temperature :	24~25℃
Test Band :	Low	Relative Humidity :	46~47%
Test Channel :	54	Test Engineer :	Gavin Wu

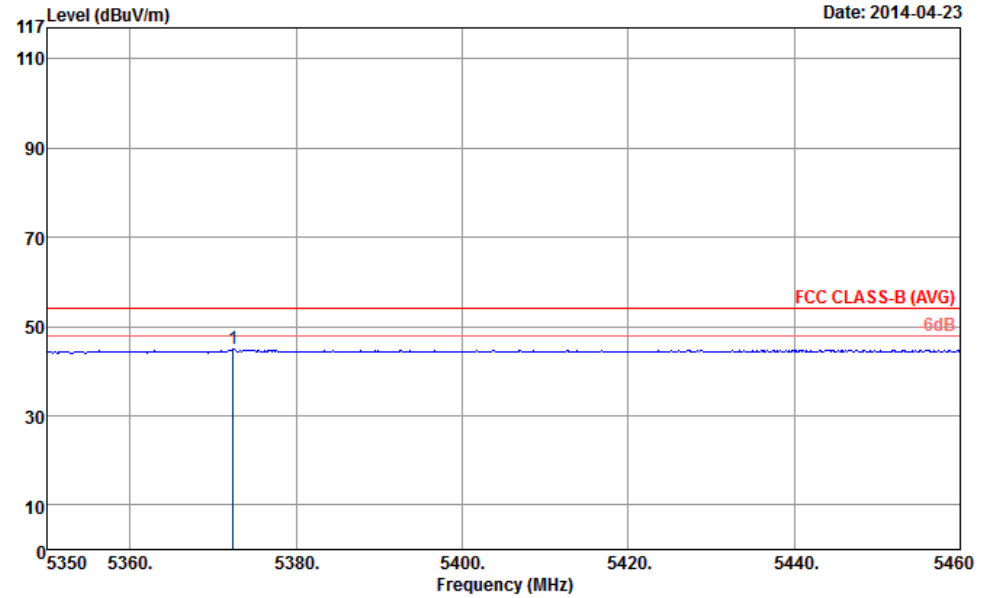


ANTENNA POLARITY : VERTICAL

Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5419.63	56.25	-17.75	74	44.69	34.72	10.82	33.98	108	103	Peak

Note: Worst case measurement on 5419.63 MHz is compliance with 74/54 dBuV/m (peak/average) limit and band edge measurement in the restricted band 5350-5460MHz. The test result is compliance with the FCC limit line.

Test Mode :	802.11n HT40	Temperature :	24~25℃
Test Band :	Low	Relative Humidity :	46~47%
Test Channel :	54	Test Engineer :	Gavin Wu

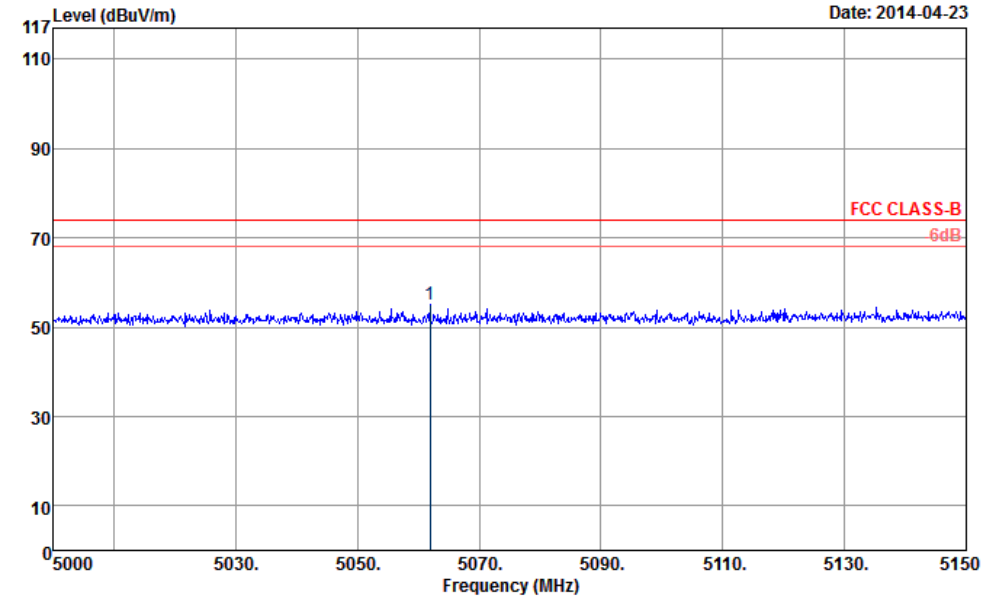


ANTENNA POLARITY : VERTICAL

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5372.44	45.02	-8.98	54	33.58	34.67	10.75	33.98	108	103	Average

Note: Worst case measurement on 5372.44 MHz is compliance with 74/54 dBuV/m (peak/average) limit and band edge measurement in the restricted band 5350-5460MHz. The test result is compliance with the FCC limit line.

Test Mode :	802.11n HT40	Temperature :	24~25℃
Test Band :	High	Relative Humidity :	46~47%
Test Channel :	62	Test Engineer :	Gavin Wu



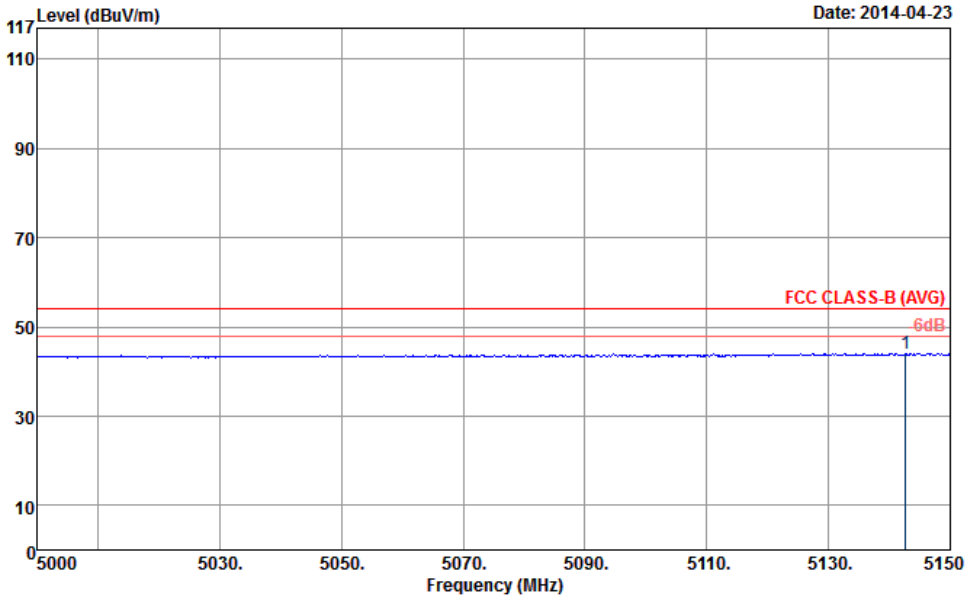
Site : 03CH06-HY
Condition : FCC CLASS-B 3m HF-ANT_583_130802 HORIZONTAL

ANTENNA POLARITY : HORIZONTAL

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5061.95	55.06	-18.94	74	44.38	34.37	10.3	33.99	100	358	Peak

Note: Worst case measurement on 5061.95 MHz is compliance with 74/54 dBuV/m (peak/average) limit and band edge measurement in the restricted band 5000-5150MHz. The test result is compliance with the FCC limit line.

Test Mode :	802.11n HT40	Temperature :	24~25℃
Test Band :	High	Relative Humidity :	46~47%
Test Channel :	62	Test Engineer :	Gavin Wu



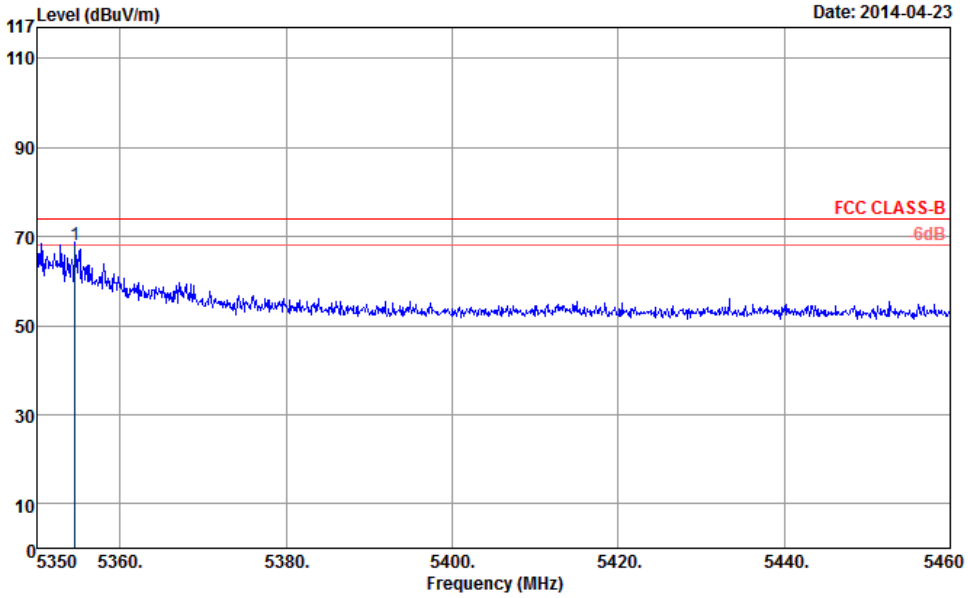
Site : 03CH06-HY
Condition : FCC CLASS-B (AVG) 3m HF-ANT_583_130802 HORIZONTAL

ANTENNA POLARITY : HORIZONTAL

Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5142.65	44.04	-9.96	54	33.14	34.45	10.44	33.99	100	358	Average

Note: Worst case measurement on 5142.65 MHz is compliance with 74/54 dBuV/m (peak/average) limit and band edge measurement in the restricted band 5000-5150MHz. The test result is compliance with the FCC limit line.

Test Mode :	802.11n HT40	Temperature :	24~25℃
Test Band :	High	Relative Humidity :	46~47%
Test Channel :	62	Test Engineer :	Gavin Wu



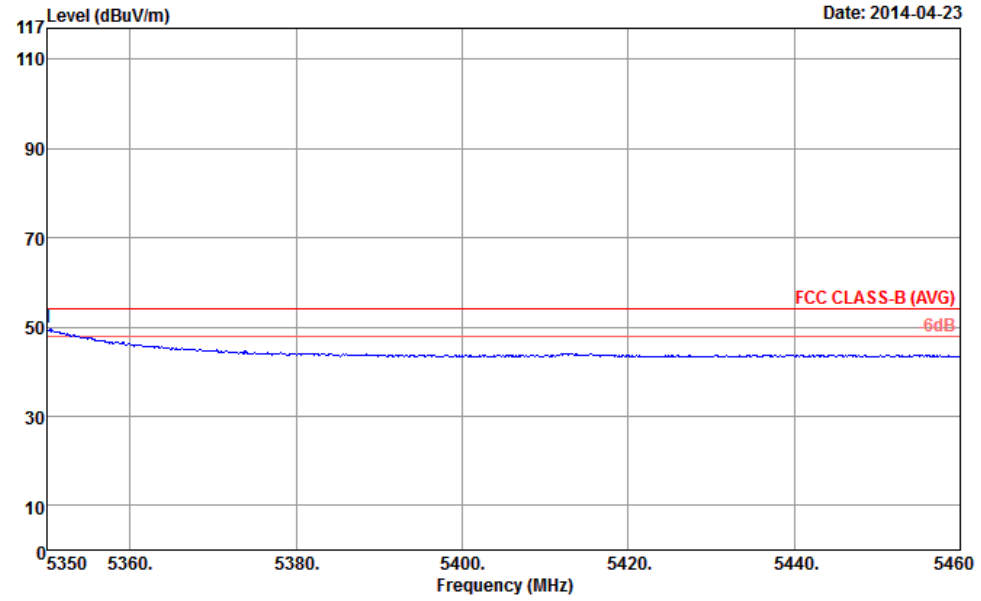
Site : 03CH06-HY
Condition : FCC CLASS-B 3m HF-ANT_583_130802 HORIZONTAL

ANTENNA POLARITY : HORIZONTAL

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5354.62	68.13	-5.87	74	56.74	34.65	10.72	33.98	100	358	Peak

Note: Worst case measurement on 5354.62 MHz is compliance with 74/54 dBuV/m (peak/average) limit and band edge measurement in the restricted band 5350-5460MHz. The test result is compliance with the FCC limit line.

Test Mode :	802.11n HT40	Temperature :	24~25℃
Test Band :	High	Relative Humidity :	46~47%
Test Channel :	62	Test Engineer :	Gavin Wu

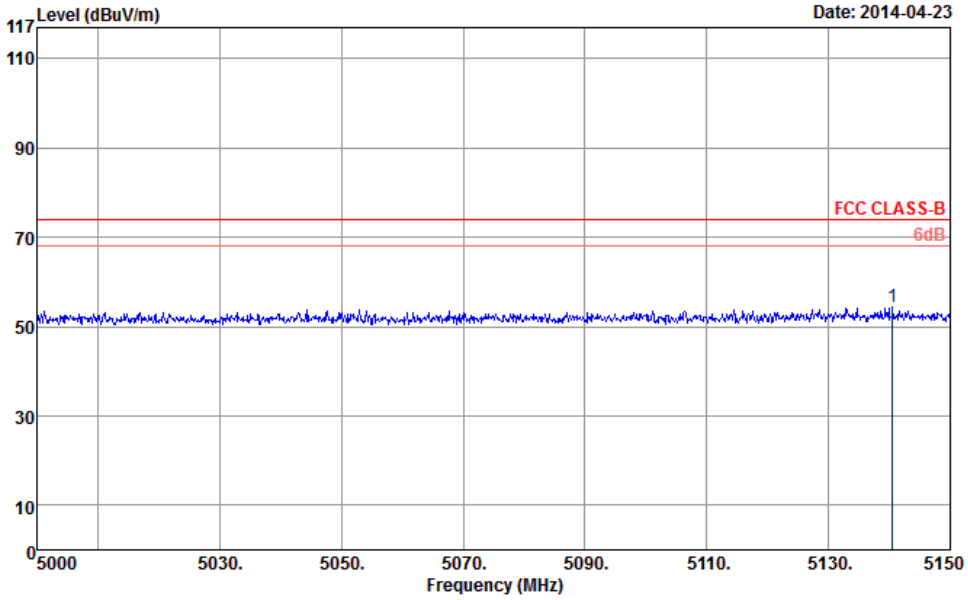


ANTENNA POLARITY : HORIZONTAL

Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5350	49.86	-4.14	54	38.47	34.65	10.72	33.98	100	358	Average

Note: Worst case measurement on 5350 MHz is compliance with 74/54 dBuV/m (peak/average) limit and band edge measurement in the restricted band 5350-5460MHz. The test result is compliance with the FCC limit line.

Test Mode :	802.11n HT40	Temperature :	24~25℃
Test Band :	High	Relative Humidity :	46~47%
Test Channel :	62	Test Engineer :	Gavin Wu



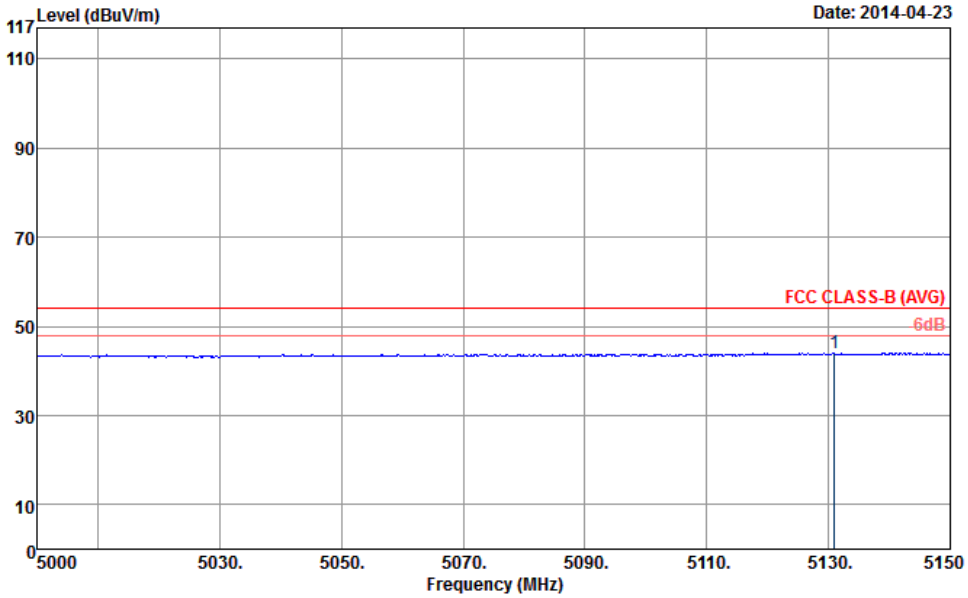
Site : 03CH06-HY
Condition : FCC CLASS-B 3m HF-ANT_583_130802 VERTICAL

ANTENNA POLARITY : VERTICAL

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5140.55	54.27	-19.73	74	43.37	34.45	10.44	33.99	108	103	Peak

Note: Worst case measurement on 5140.55 MHz is compliance with 74/54 dBuV/m (peak/average) limit and band edge measurement in the restricted band 5000-5150MHz. The test result is compliance with the FCC limit line.

Test Mode :	802.11n HT40	Temperature :	24~25℃
Test Band :	High	Relative Humidity :	46~47%
Test Channel :	62	Test Engineer :	Gavin Wu



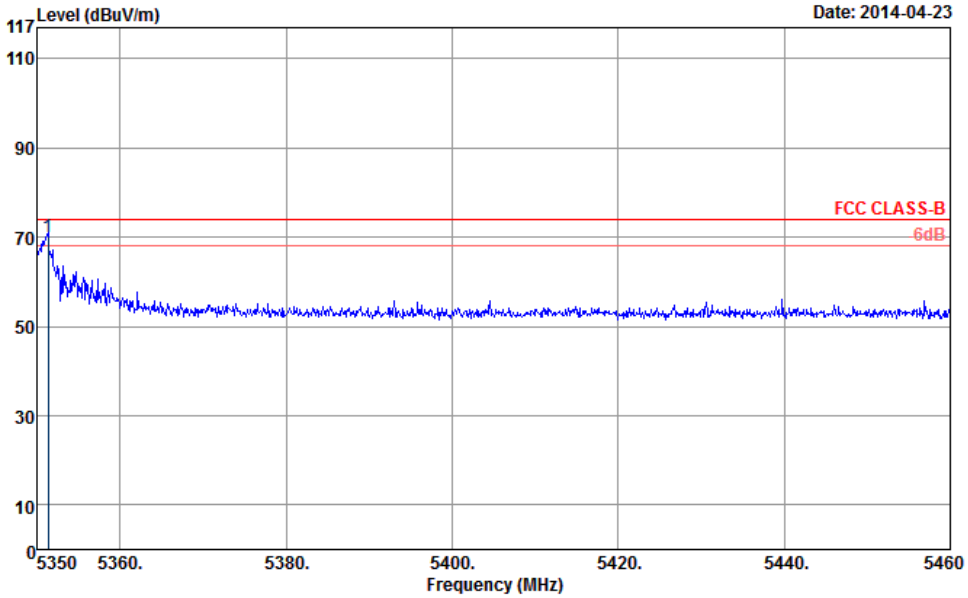
Site : 03CH06-HY
Condition : FCC CLASS-B (AVG) 3m HF-ANT_583_130802 VERTICAL

ANTENNA POLARITY : VERTICAL

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5130.95	43.95	-10.05	54	33.11	34.43	10.4	33.99	108	103	Average

Note: Worst case measurement on 5130.95 MHz is compliance with 74/54 dBuV/m (peak/average) limit and band edge measurement in the restricted band 5000-5150MHz. The test result is compliance with the FCC limit line.

Test Mode :	802.11n HT40	**Temperature :**	24~25℃
Test Band :	High	**Relative Humidity :**	46~47%
Test Channel :	62	**Test Engineer :**	Gavin Wu



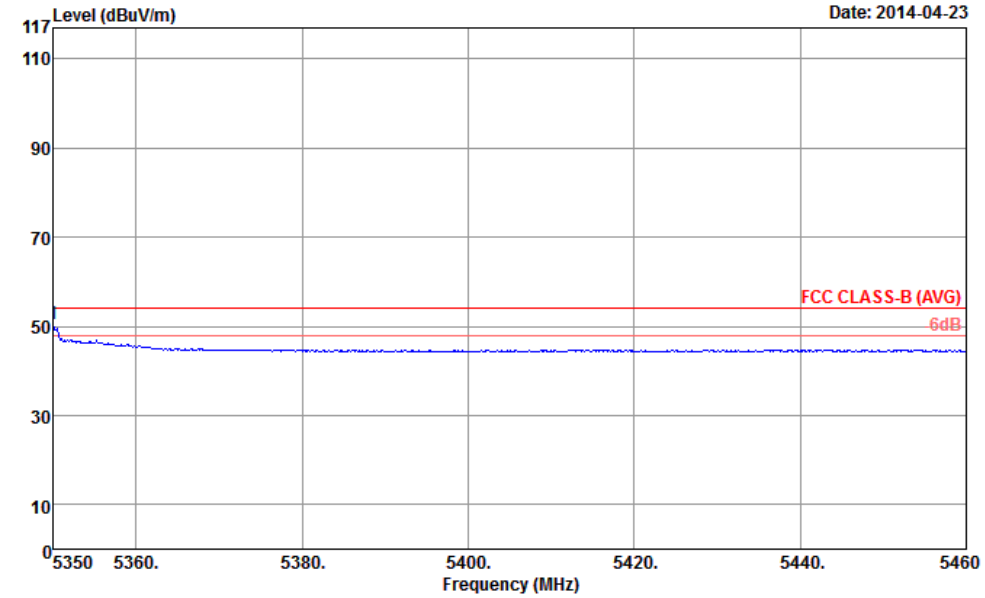
Site : 03CH06-HY
Condition : FCC CLASS-B 3m HF-ANT_583_130802 VERTICAL

ANTENNA POLARITY : VERTICAL

Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5351.32	70.1	-3.9	74	58.71	34.65	10.72	33.98	108	103	Peak

Note: Worst case measurement on 5351.32 MHz is compliance with 74/54 dBuV/m (peak/average) limit and band edge measurement in the restricted band 5350-5460MHz. The test result is compliance with the FCC limit line.

Test Mode :	802.11n HT40	Temperature :	24~25℃
Test Band :	High	Relative Humidity :	46~47%
Test Channel :	62	Test Engineer :	Gavin Wu

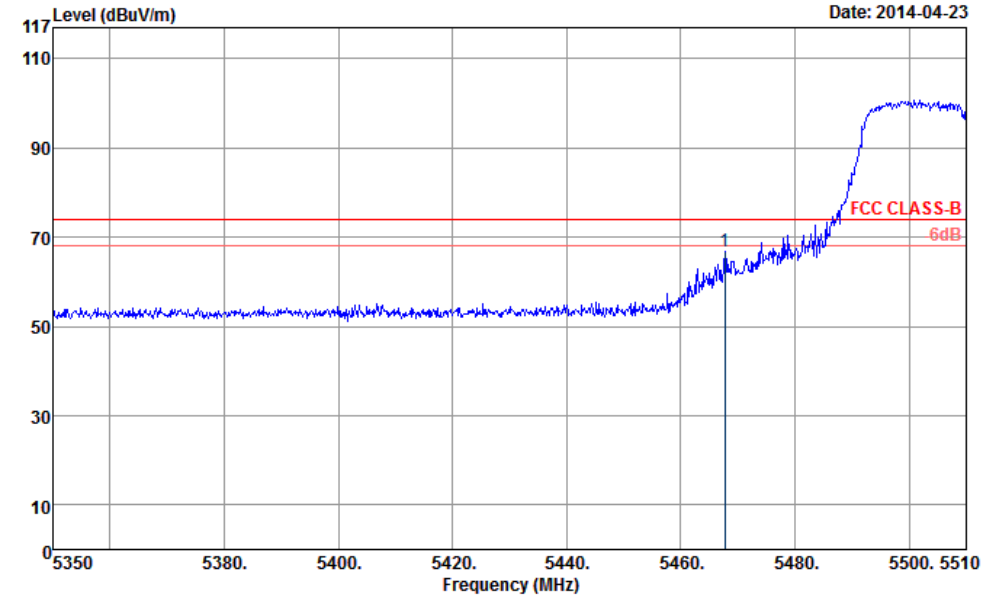


ANTENNA POLARITY : VERTICAL

Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5350	50.42	-3.58	54	39.03	34.65	10.72	33.98	108	103	Average

Note: Worst case measurement on 5350 MHz is compliance with 74/54 dBuV/m (peak/average) limit and band edge measurement in the restricted band 5350-5460MHz. The test result is compliance with the FCC limit line.

Test Mode :	802.11n HT40	Temperature :	24~25℃
Test Band :	Low	Relative Humidity :	46~47%
Test Channel :	102	Test Engineer :	Gavin Wu



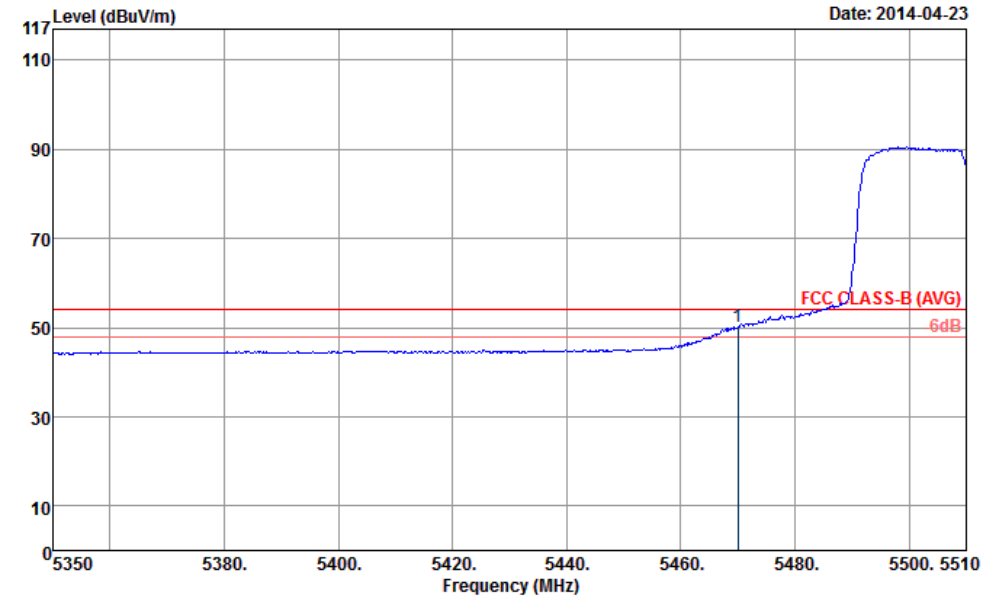
Site : 03CH06-HY
Condition : FCC CLASS-B 3m HF-ANT_583_130802 HORIZONTAL

ANTENNA POLARITY : HORIZONTAL

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5467.76	66.74	-7.26	74	55.06	34.77	10.89	33.98	106	358	Peak

Note: Worst case measurement on 5467.76 MHz is compliance with 74/54 dBuV/m (peak/average) limit and band edge measurement 5460-5510MHz is within the operating band and not within the restricted band. And, 5350-5460MHz is the restricted band. Both the test results are compliance with the FCC limit line.

Test Mode :	802.11n HT40	Temperature :	24~25℃
Test Band :	Low	Relative Humidity :	46~47%
Test Channel :	102	Test Engineer :	Gavin Wu

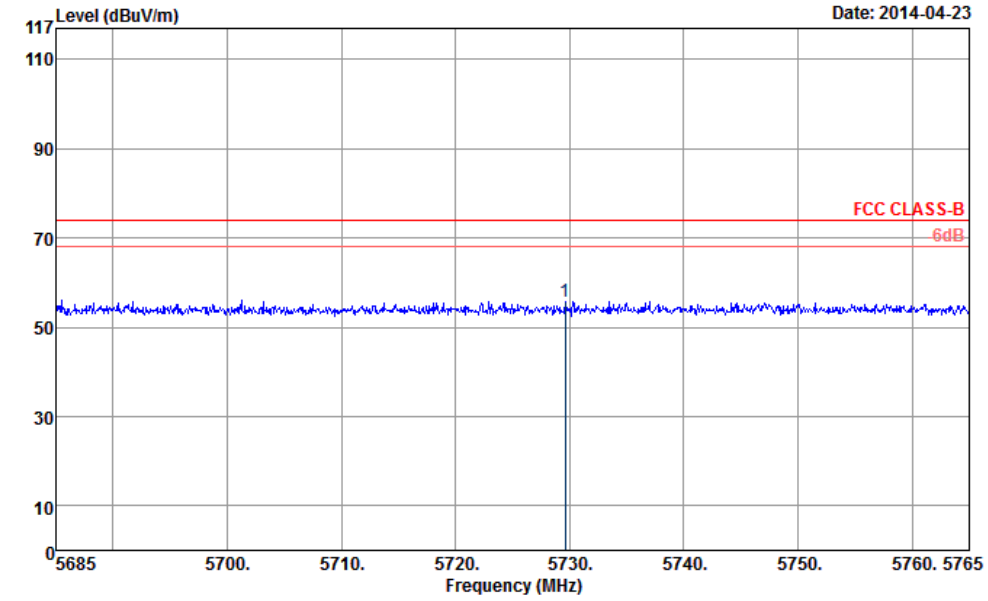


ANTENNA POLARITY : HORIZONTAL

Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5470	50.33	-3.67	54	38.65	34.77	10.89	33.98	106	358	Average

Note: Worst case measurement on 5470 MHz is compliance with 74/54 dBuV/m (peak/average) limit and band edge measurement 5460-5510MHz is within the operating band and not within the restricted band. And, 5350-5460MHz is the restricted band. Both the test results are compliance with the FCC limit line.

Test Mode :	802.11n HT40	Temperature :	24~25℃
Test Band :	Low	Relative Humidity :	46~47%
Test Channel :	102	Test Engineer :	Gavin Wu



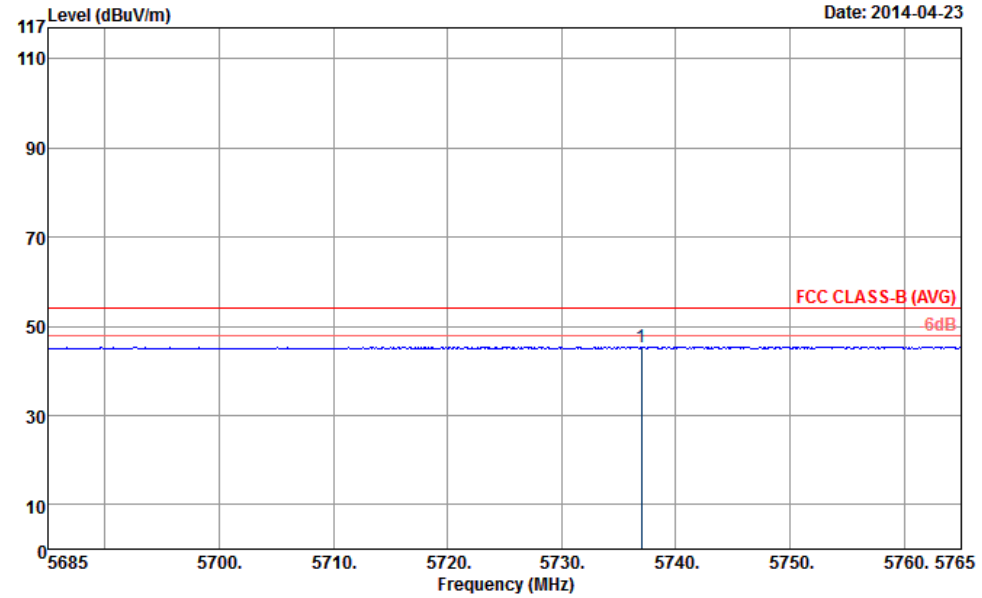
Site : 03CH06-HY
Condition : FCC CLASS-B 3m HF-ANT 583 130802 HORIZONTAL

ANTENNA POLARITY : HORIZONTAL

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5729.64	55.77	-18.23	74	43.4	35.02	11.34	33.99	106	358	Peak

Note: Worst case measurement on 5729.64 MHz is compliance with 74/54 dBuV/m (peak/average) limit and band edge measurement 5685-5765MHz is within the operating band and not within the restricted band. The test result is compliance with the FCC limit line.

Test Mode :	802.11n HT40	Temperature :	24~25℃
Test Band :	Low	Relative Humidity :	46~47%
Test Channel :	102	Test Engineer :	Gavin Wu



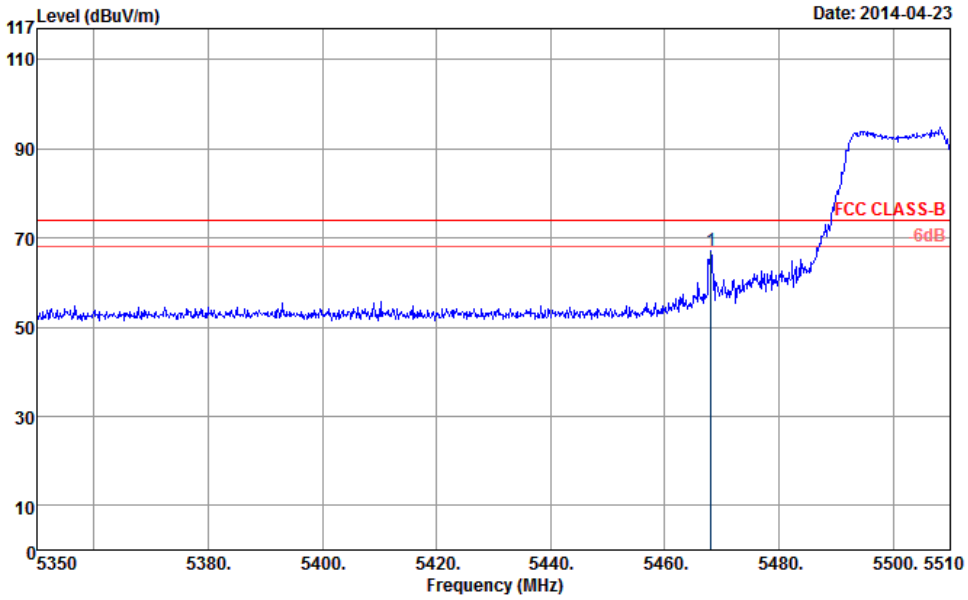
Site : 03CH06-HY
Condition : FCC CLASS-B (AVG) 3m HF-ANT_583_130802 HORIZONTAL

ANTENNA POLARITY : HORIZONTAL

Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5737	45.44	-8.56	54	33.05	35.04	11.34	33.99	106	358	Average

Note: Worst case measurement on 5737 MHz is compliance with 74/54 dBuV/m (peak/average) limit and band edge measurement 5685-5765MHz is within the operating band and not within the restricted band. The test result is compliance with the FCC limit line.

Test Mode :	802.11n HT40	Temperature :	24~25℃
Test Band :	Low	Relative Humidity :	46~47%
Test Channel :	102	Test Engineer :	Gavin Wu



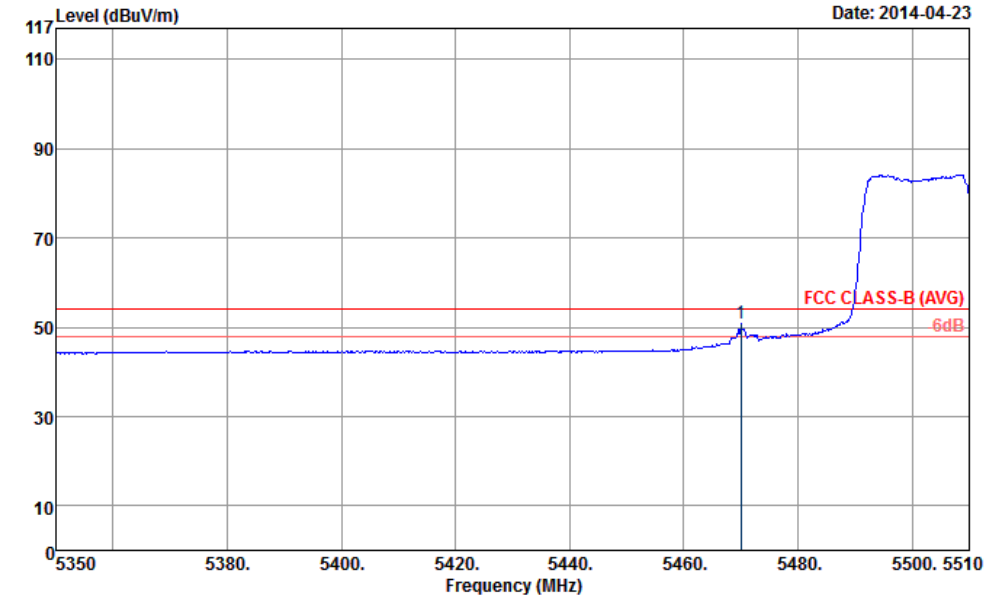
Site : 03CH06-HY
Condition : FCC CLASS-B 3m HF-ANT_583_130802 VERTICAL

ANTENNA POLARITY : VERTICAL

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5468.08	67.05	-6.95	74	55.37	34.77	10.89	33.98	101	77	Peak

Note: Worst case measurement on 5468.08 MHz is compliance with 74/54 dBuV/m (peak/average) limit and band edge measurement 5460-5510MHz is within the operating band and not within the restricted band. And, 5350-5460MHz is the restricted band. Both the test results are compliance with the FCC limit line.

Test Mode :	802.11n HT40	Temperature :	24~25℃
Test Band :	Low	Relative Humidity :	46~47%
Test Channel :	102	Test Engineer :	Gavin Wu

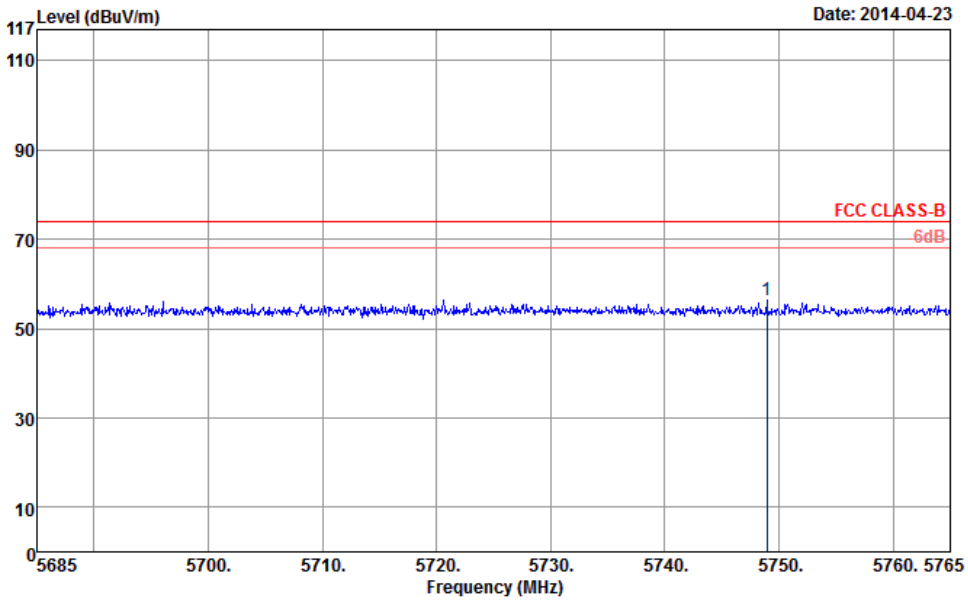


ANTENNA POLARITY : VERTICAL

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5470	50.73	-3.27	54	39.05	34.77	10.89	33.98	101	77	Average

Note: Worst case measurement on 5470 MHz is compliance with 74/54 dBuV/m (peak/average) limit and band edge measurement 5460-5510MHz is within the operating band and not within the restricted band. And, 5350-5460MHz is the restricted band. Both the test results are compliance with the FCC limit line.

Test Mode :	802.11n HT40	Temperature :	24~25℃
Test Band :	Low	Relative Humidity :	46~47%
Test Channel :	102	Test Engineer :	Gavin Wu



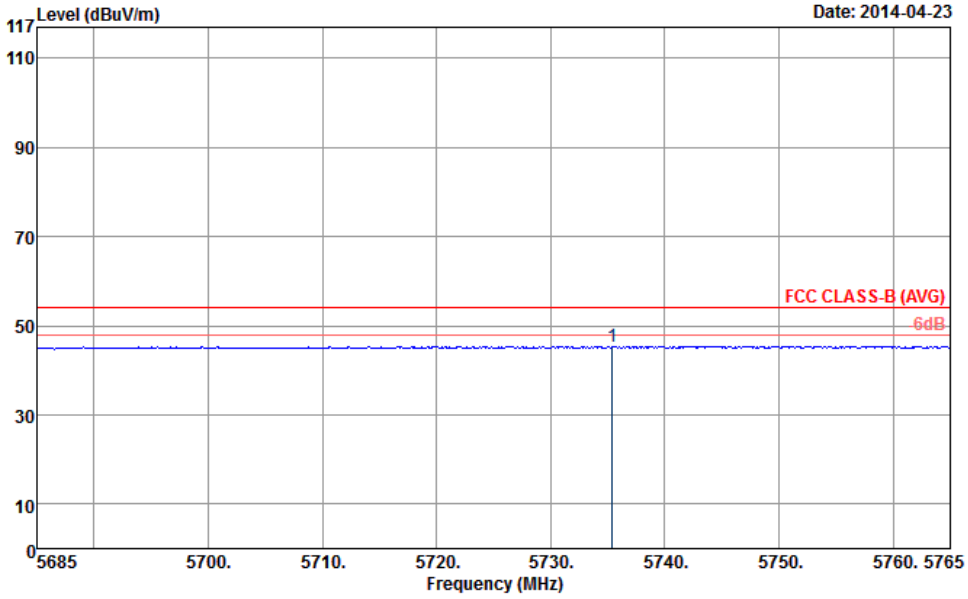
Site : 03CH06-HY
Condition : FCC CLASS-B 3m HF-ANT_583_130802 VERTICAL

ANTENNA POLARITY : VERTICAL

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5748.92	56.27	-17.73	74	43.83	35.04	11.39	33.99	101	77	Peak

Note: Worst case measurement on 5748.92 MHz is compliance with 74/54 dBuV/m (peak/average) limit and band edge measurement 5685-5765MHz is within the operating band and not within the restricted band. The test result is compliance with the FCC limit line.

Test Mode :	802.11n HT40	Temperature :	24~25℃
Test Band :	Low	Relative Humidity :	46~47%
Test Channel :	102	Test Engineer :	Gavin Wu



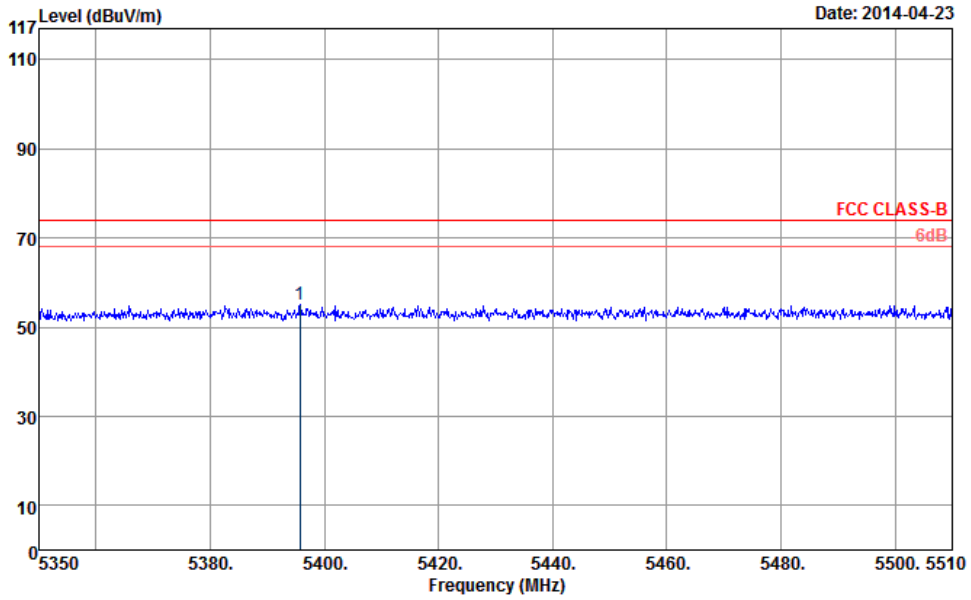
Site : 03CH06-HY
Condition : FCC CLASS-B (AVG) 3m HF-ANT_583_130802 VERTICAL

ANTENNA POLARITY : VERTICAL

Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5735.4	45.44	-8.56	54	33.05	35.04	11.34	33.99	101	77	Average

Note: Worst case measurement on 5735.4 MHz is compliance with 74/54 dBuV/m (peak/average) limit and band edge measurement 5685-5765MHz is within the operating band and not within the restricted band. The test result is compliance with the FCC limit line.

Test Mode :	802.11n HT40	Temperature :	24~25℃
Test Band :	High	Relative Humidity :	46~47%
Test Channel :	134	Test Engineer :	Gavin Wu



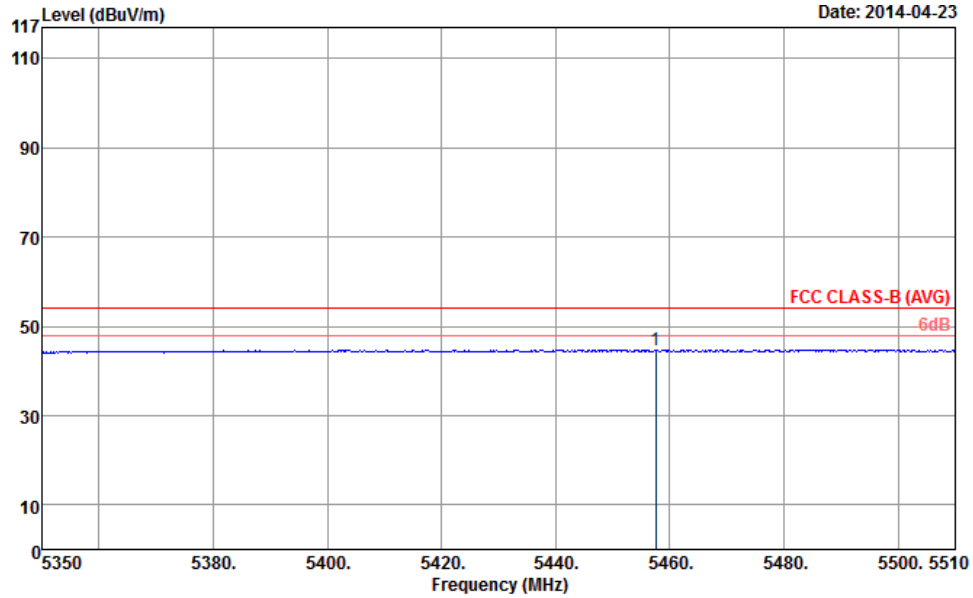
Site : 03CH06-HY
Condition : FCC CLASS-B 3m HF-ANT_583_130802 HORIZONTAL

ANTENNA POLARITY : HORIZONTAL

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5395.76	55.1	-18.9	74	43.59	34.7	10.79	33.98	101	298	Peak

Note: Worst case measurement on 5395.76 MHz is compliance with 74/54 dBuV/m (peak/average) limit and band edge measurement 5460-5510MHz is within the operating band and not within the restricted band. And, 5350-5460MHz is the restricted band. The test result is compliance with the FCC limit line.

Test Mode :	802.11n HT40	Temperature :	24~25℃
Test Band :	High	Relative Humidity :	46~47%
Test Channel :	134	Test Engineer :	Gavin Wu



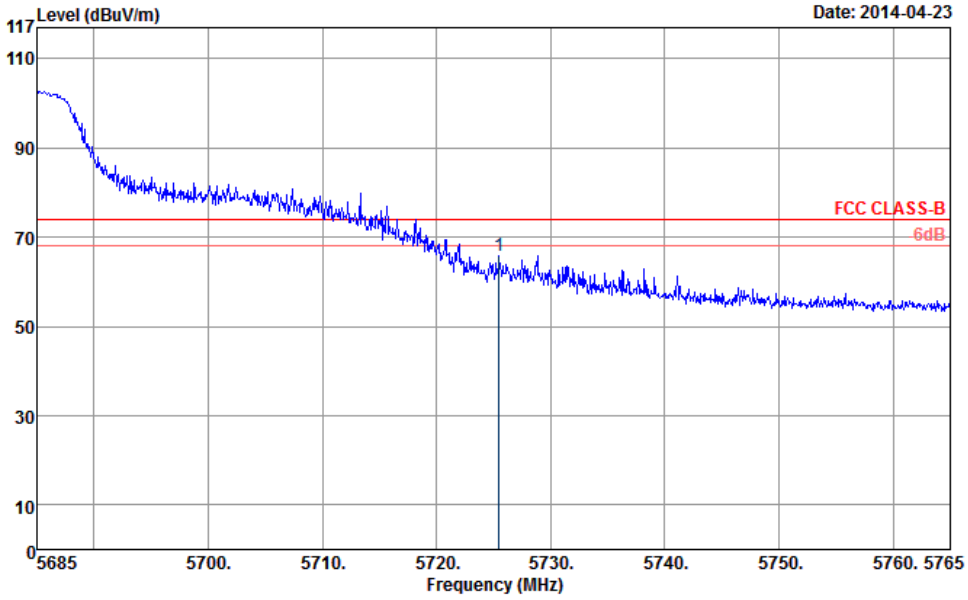
Site : 03CH06-HY
Condition : FCC CLASS-B (AVG) 3m HF-ANT_583_130802 HORIZONTAL

ANTENNA POLARITY : HORIZONTAL

Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5457.52	44.7	-9.3	54	33.04	34.75	10.89	33.98	101	298	Average

Note: Worst case measurement on 5457.52 MHz is compliance with 74/54 dBuV/m (peak/average) limit and band edge measurement in the restricted band 5350-5460MHz. And, 5460-5510MHz is within the operating band and not within the restricted band. Both the test results are compliance with the FCC limit line.

Test Mode :	802.11n HT40	Temperature :	24~25℃
Test Band :	High	Relative Humidity :	46~47%
Test Channel :	134	Test Engineer :	Gavin Wu



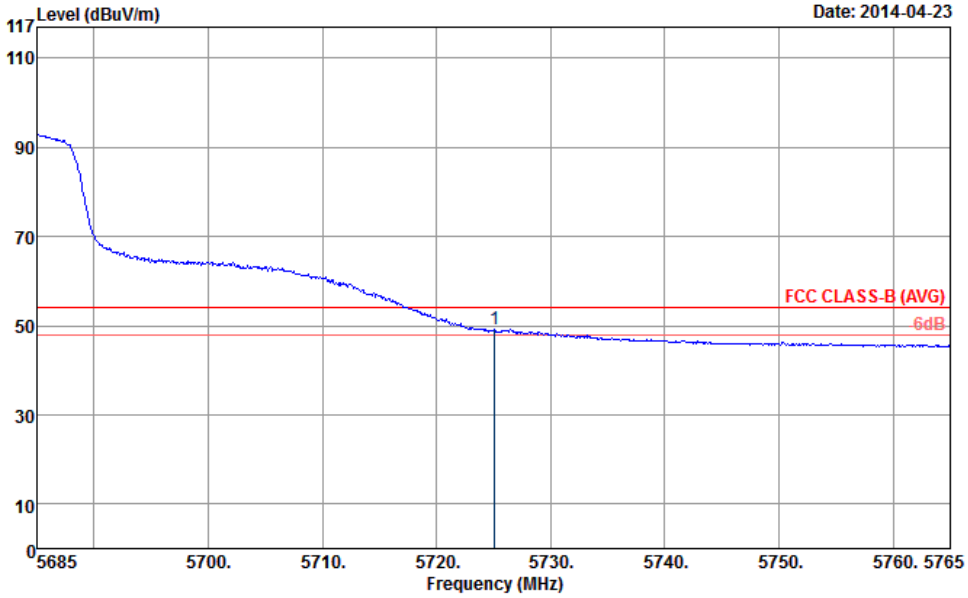
Site : 03CH06-HY
Condition : FCC CLASS-B 3m HF-ANT_583_130802 HORIZONTAL

ANTENNA POLARITY : HORIZONTAL

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5725.48	65.96	-8.04	74	53.59	35.02	11.34	33.99	101	298	Peak

Note: Worst case measurement on 5725.48 MHz is compliance with 74/54 dBuV/m (peak/average) limit and band edge measurement 5685-5765MHz is within the operating band and not within the restricted band. The test result is compliance with the FCC limit line.

Test Mode :	802.11n HT40	Temperature :	24~25℃
Test Band :	High	Relative Humidity :	46~47%
Test Channel :	134	Test Engineer :	Gavin Wu



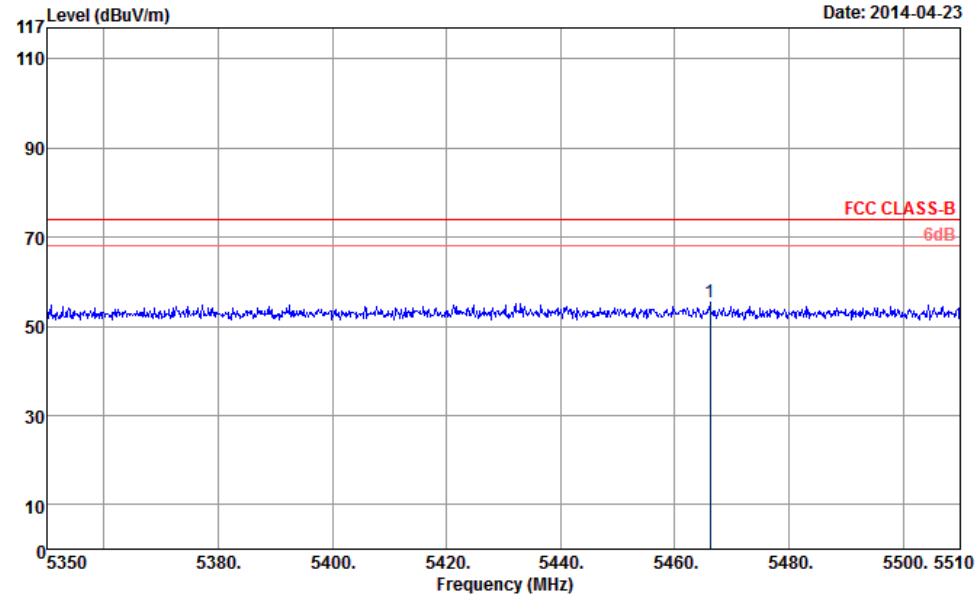
Site : 03CH06-HY
Condition : FCC CLASS-B (AVG) 3m HF-ANT_583_130802 HORIZONTAL

ANTENNA POLARITY : HORIZONTAL

Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5725.08	49.14	-4.86	54	36.77	35.02	11.34	33.99	101	298	Average

Note: Worst case measurement on 5725.08 MHz is compliance with 74/54 dBuV/m (peak/average) limit and band edge measurement 5685-5765MHz is within the operating band and not within the restricted band. The test result is compliance with the FCC limit line.

Test Mode :	802.11n HT40	Temperature :	24~25℃
Test Band :	High	Relative Humidity :	46~47%
Test Channel :	134	Test Engineer :	Gavin Wu



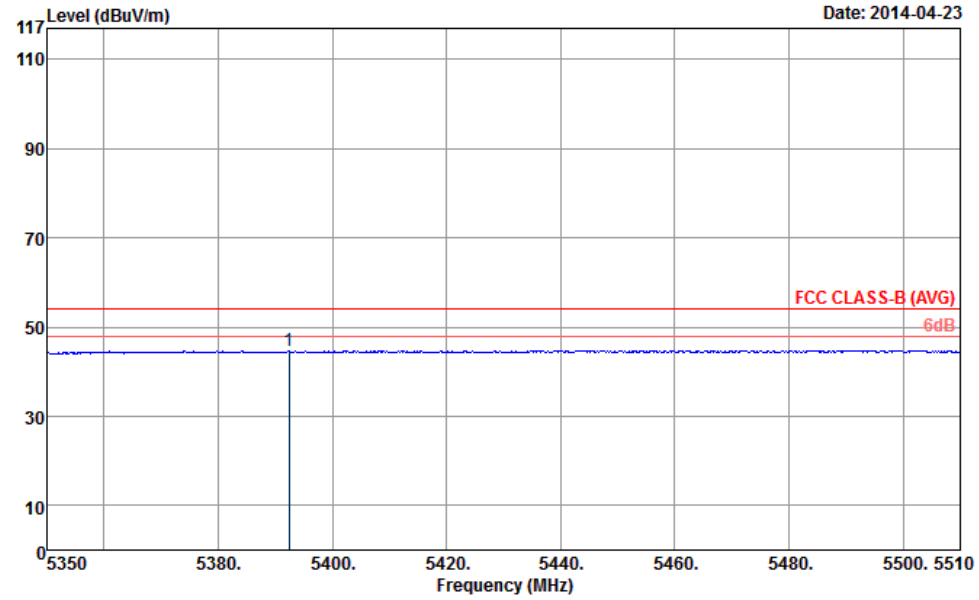
Site : 03CH06-HY
Condition : FCC CLASS-B 3m HF-ANT_583_130802 VERTICAL

ANTENNA POLARITY : VERTICAL

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5466.16	55.56	-18.44	74	43.88	34.77	10.89	33.98	101	98	Peak

Note: Worst case measurement on 5466.16 MHz is compliance with 74/54 dBuV/m (peak/average) limit and band edge measurement in the restricted band 5350-5460MHz. And, 5460-5510MHz is within the operating band and not within the restricted band. Both the test results are compliance with the FCC limit line.

Test Mode :	802.11n HT40	Temperature :	24~25℃
Test Band :	High	Relative Humidity :	46~47%
Test Channel :	134	Test Engineer :	Gavin Wu

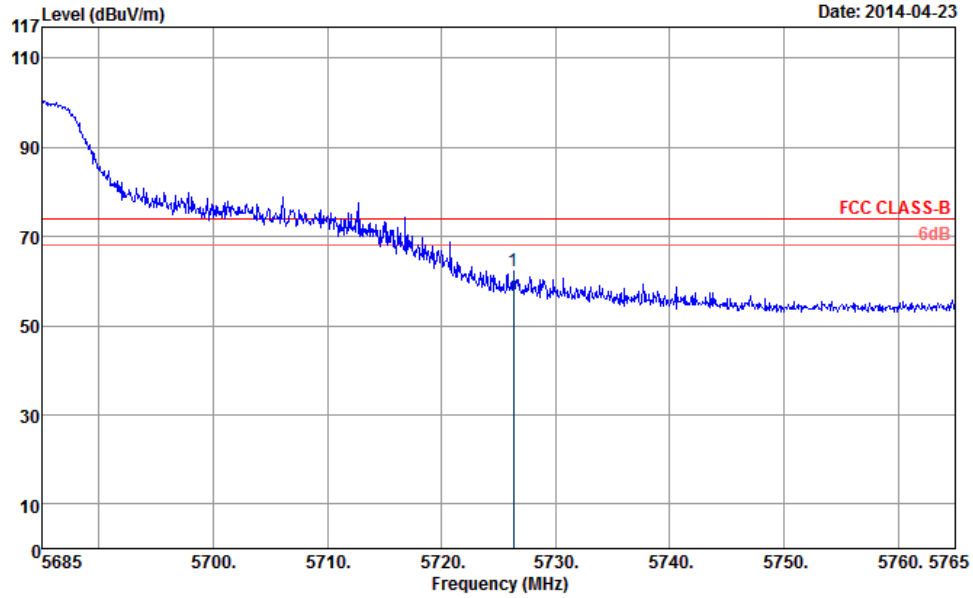


ANTENNA POLARITY : VERTICAL

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5392.4	44.76	-9.24	54	33.27	34.68	10.79	33.98	101	98	Average

Note: Worst case measurement on 5392.4 MHz is compliance with 74/54 dBuV/m (peak/average) limit and band edge measurement in the restricted band 5350-5460MHz. And, 5460-5510MHz is within the operating band and not within the restricted band. Both the test results are compliance with the FCC limit line.

Test Mode :	802.11n HT40	Temperature :	24~25℃
Test Band :	High	Relative Humidity :	46~47%
Test Channel :	134	Test Engineer :	Gavin Wu



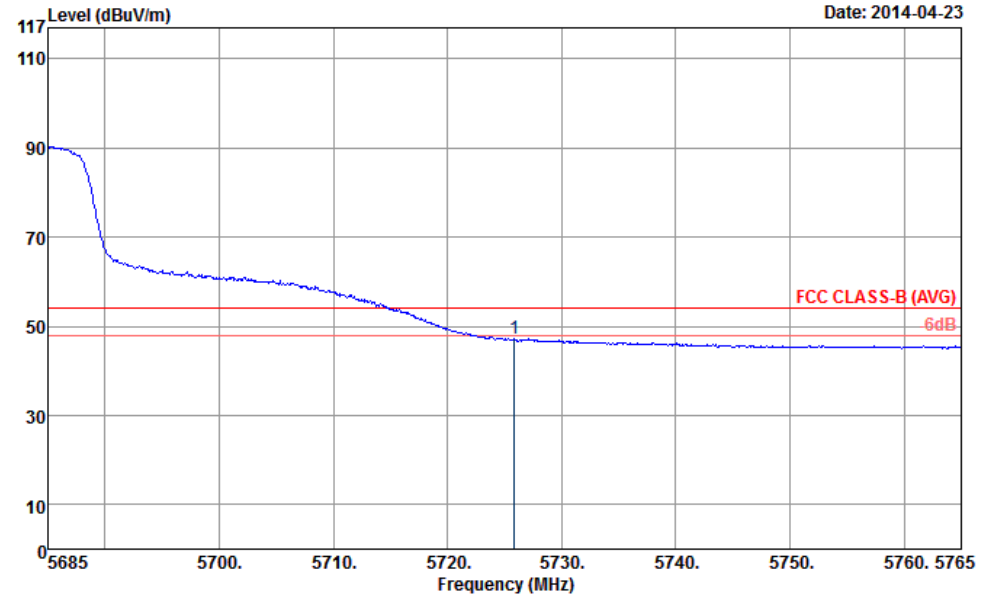
Site : 03CH06-HY
Condition : FCC CLASS-B 3m HF-ANT_583_130802 VERTICAL

ANTENNA POLARITY : VERTICAL

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5726.28	62.12	-11.88	74	49.75	35.02	11.34	33.99	101	98	Peak

Note: Worst case measurement on 5726.28 MHz is compliance with 74/54 dBuV/m (peak/average) limit and band edge measurement 5685-5765MHz is within the operating band and not within the restricted band. The test result is compliance with the FCC limit line.

Test Mode :	802.11n HT40	Temperature :	24~25℃
Test Band :	High	Relative Humidity :	46~47%
Test Channel :	134	Test Engineer :	Gavin Wu



Site : 03CH06-HY
Condition : FCC CLASS-B (AVG) 3m HF-ANT_583_130802 VERTICAL

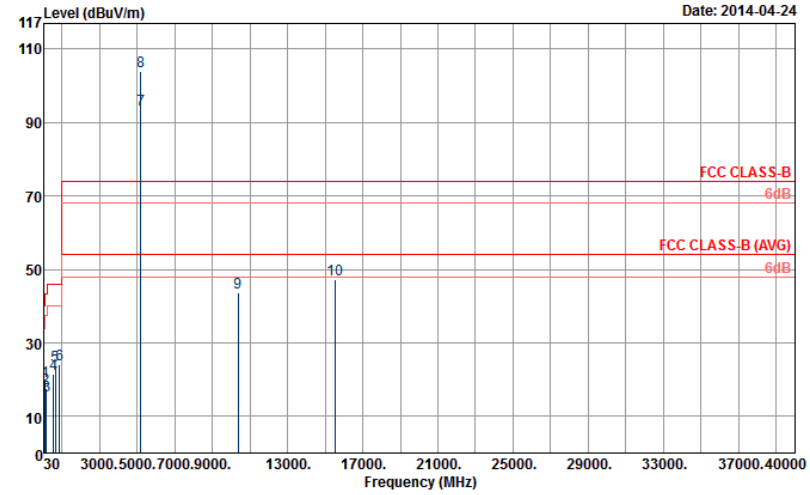
ANTENNA POLARITY : VERTICAL

Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5725.88	47.19	-6.81	54	34.82	35.02	11.34	33.99	101	98	Average

Note: Worst case measurement on 5725.88 MHz is compliance with 74/54 dBuV/m (peak/average) limit and band edge measurement 5685-5765MHz is within the operating band and not within the restricted band. The test result is compliance with the FCC limit line.

3.5.6.2 Test Result of Unwanted Radiated Emission (30MHz ~ 10th Harmonic)

Test Mode :	802.11a	**Temperature :**	24~25℃
Test Channel :	36	**Relative Humidity :**	46~47%
Test Engineer :	Gavin Wu		
Remark :	1. 5182 MHz is fundamental signal which can be ignored. 2. 10359 MHz is not within a restricted band and satisfies both the average and peak limits of 15.209. 3. Average measurement was not performed if peak level went lower than the average limit. 4. The harmonic (4th, 5th, 6th,…etc.) and other spurious are not reported, because those levels are lower than average limit line and background noise.		



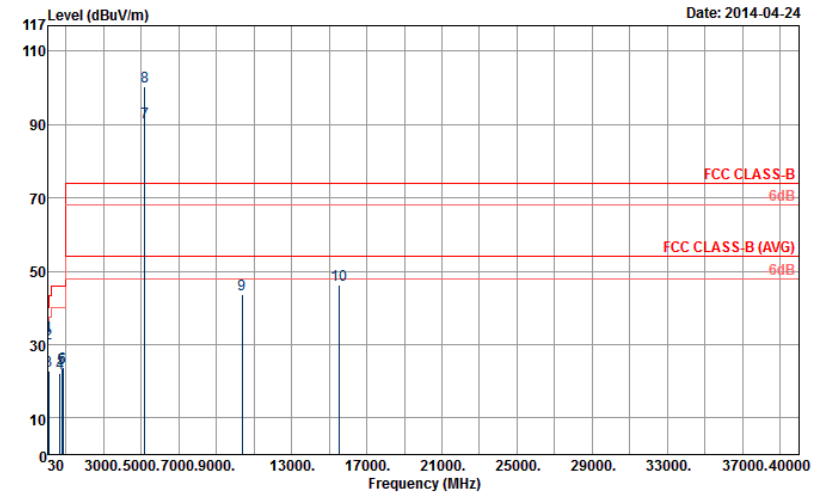
Site : 03CH06-HY
Condition : FCC CLASS-B 3m SHF-EHF HORN HORIZONTAL

ANTENNA POLARITY : HORIZONTAL

Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
98.85	19.6	-23.9	43.5	39.59	10.66	1.1	31.75	-	-	Peak
136.65	17.57	-25.93	43.5	36.62	11.4	1.3	31.75	-	-	Peak
185.25	15.53	-27.97	43.5	36.81	9	1.47	31.75	-	-	Peak
541.5	21.61	-24.39	46	31.92	19.14	2.53	31.98	-	-	Peak
637.4	23.74	-22.26	46	33.34	19.66	2.79	32.05	-	-	Peak
864.9	24.06	-21.94	46	31.62	20.85	3.27	31.68	100	157	Peak

ANTENNA POLARITY : HORIZONTAL										
Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5182	93.64	-	-	82.68	34.48	10.47	33.99	100	355	Average
5182	103.85	-	-	92.89	34.48	10.47	33.99	100	355	Peak
10359	43.71	-30.29	74	56.59	37.17	10.64	60.69	100	0	Peak
15540	47.39	-26.61	74	55.34	39.73	11.79	59.47	100	0	Peak
Other harmonics are lower than background noise										

Test Mode :	802.11a	**Temperature :**	24~25℃
Test Channel :	36	**Relative Humidity :**	46~47%
Test Engineer :	Gavin Wu		
Remark :	1. 5182 MHz is fundamental signal which can be ignored. 2. 10359 MHz is not within a restricted band and satisfies both the average and peak limits of 15.209. 3. Average measurement was not performed if peak level went lower than the average limit. 4. The harmonic (4th ,5th , 6th,…etc.) and other spurious are not reported, because those levels are lower than average limit line and background noise		



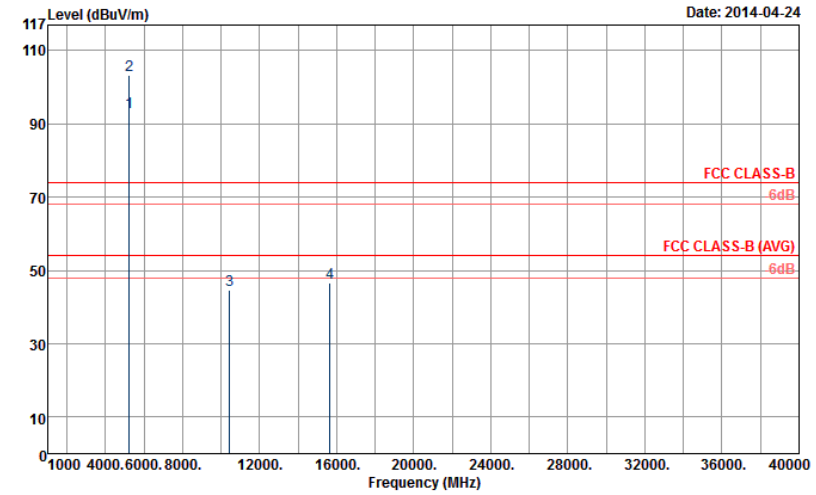
Site : 03CH06-HY
Condition : FCC CLASS-B 3m SHF-EHF HORN VERTICAL

ANTENNA POLARITY : VERTICAL

Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
30	32.24	-7.76	40	44.9	18.5	0.64	31.8	100	149	Peak
34.86	30.31	-9.69	40	45.91	15.5	0.69	31.79	-	-	Peak
71.85	22.89	-17.11	40	47.21	6.5	0.95	31.77	-	-	Peak
676.6	22.04	-23.96	46	31.79	19.43	2.85	32.03	-	-	Peak
784.4	23.43	-22.57	46	32.18	20.15	3.06	31.96	-	-	Peak
839	23.84	-22.16	46	31.75	20.69	3.19	31.79	-	-	Peak

ANTENNA POLARITY : VERTICAL										
Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5182	90.55	-	-	79.59	34.48	10.47	33.99	112	105	Average
5182	100.54	-	-	89.58	34.48	10.47	33.99	112	105	Peak
10359	43.79	-30.21	74	56.67	37.17	10.64	60.69	100	0	Peak
15540	46.33	-27.67	74	54.28	39.73	11.79	59.47	100	0	Peak
Other harmonics are lower than background noise										

Test Mode :	802.11a	**Temperature :**	24~25℃
Test Channel :	44	**Relative Humidity :**	46~47%
Test Engineer :	Gavin Wu		
Remark :	1. 5222 MHz is fundamental signal which can be ignored. 2. 10440 MHz is not within a restricted band and satisfies both the average and peak limits of 15.209. 3. Average measurement was not performed if peak level went lower than the average limit. 4. The harmonic (4th ,5th , 6th,…etc.) and other spurious are not reported, because those levels are lower than average limit line and background noise		

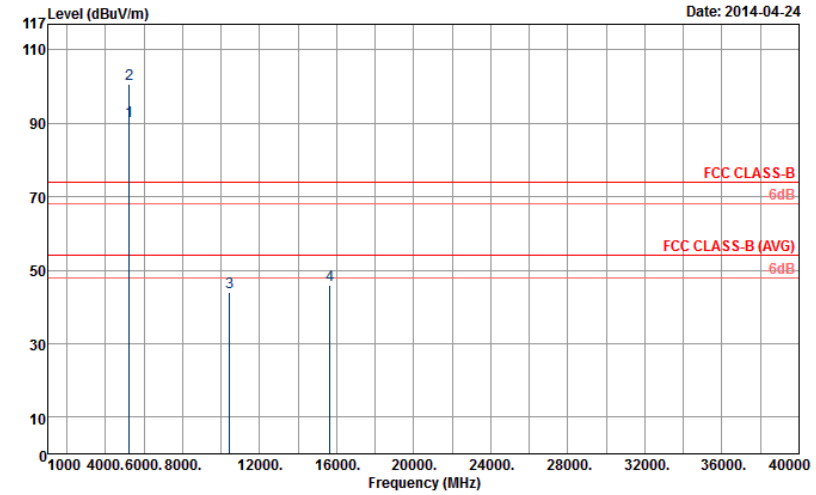


ANTENNA POLARITY : HORIZONTAL

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5222	93.36	-	-	82.29	34.52	10.54	33.99	100	355	Average
5222	103.31	-	-	92.24	34.52	10.54	33.99	100	355	Peak
10440	44.73	-29.27	74	57.44	37.23	10.65	60.59	100	0	Peak
15660	46.76	-27.24	74	54.49	39.86	11.75	59.34	100	0	Peak

Other harmonics are lower than background noise

Test Mode :	802.11a	**Temperature :**	24~25℃
Test Channel :	44	**Relative Humidity :**	46~47%
Test Engineer :	Gavin Wu		
Remark :	1. 5222 MHz is fundamental signal which can be ignored. 2. 10440 MHz is not within a restricted band and satisfies both the average and peak limits of 15.209. 3. Average measurement was not performed if peak level went lower than the average limit. 4. The harmonic (4th ,5th , 6th,…etc.) and other spurious are not reported, because those levels are lower than average limit line and background noise		



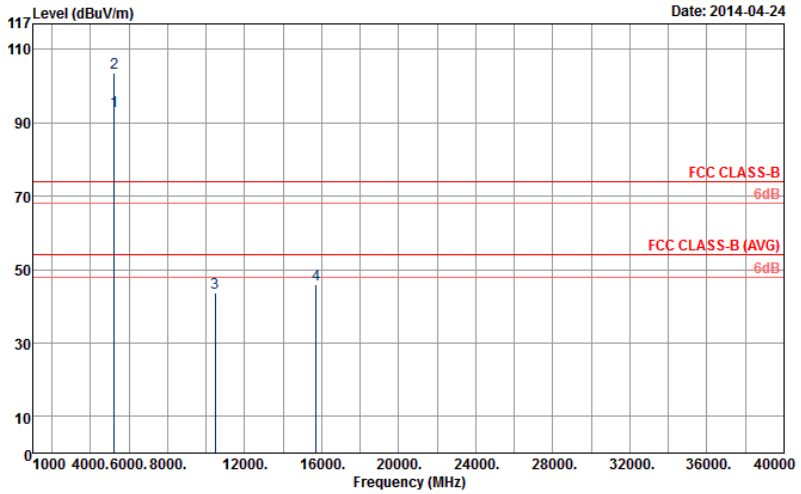
Site : 03CH06-HY
Condition : FCC CLASS-B 3m SHF-EHF HORN VERTICAL

ANTENNA POLARITY : VERTICAL

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5222	90.68	-	-	79.61	34.52	10.54	33.99	200	105	Average
5222	100.86	-	-	89.79	34.52	10.54	33.99	200	105	Peak
10440	44.1	-29.9	74	56.81	37.23	10.65	60.59	100	0	Peak
15660	45.96	-28.04	74	53.69	39.86	11.75	59.34	100	0	Peak

Other harmonics are lower than background noise

Test Mode :	802.11a	**Temperature :**	24~25℃
Test Channel :	48	**Relative Humidity :**	46~47%
Test Engineer :	Gavin Wu		
Remark :	1. 5242 MHz is fundamental signal which can be ignored. 2. 10479 MHz is not within a restricted band and satisfies both the average and peak limits of 15.209. 3. Average measurement was not performed if peak level went lower than the average limit. 4. The harmonic (4th ,5th , 6th,…etc.) and other spurious are not reported, because those levels are lower than average limit line and background noise		



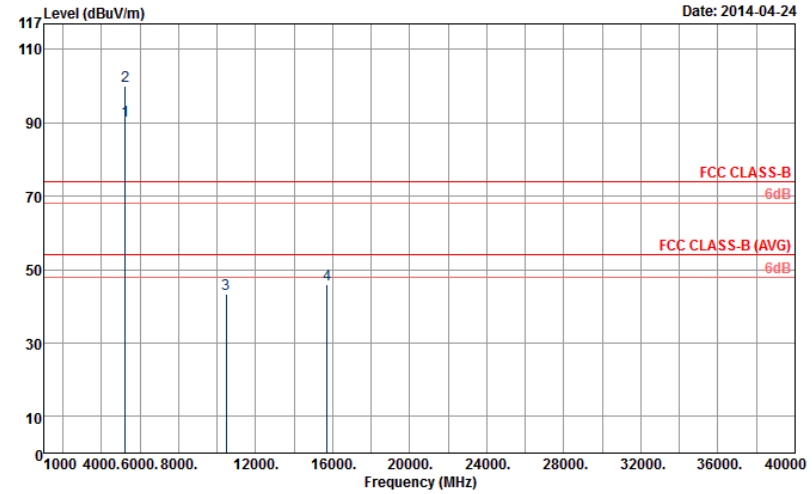
Site : 03CH06-HY
Condition : FCC CLASS-B 3m SHF-EHF HORN HORIZONTAL

ANTENNA POLARITY : HORIZONTAL

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5242	93.34	-	-	82.2	34.55	10.58	33.99	100	355	Average
5242	103.48	-	-	92.34	34.55	10.58	33.99	100	355	Peak
10479	43.59	-30.41	74	56.17	37.28	10.66	60.52	100	0	Peak
15720	46.06	-27.94	74	53.68	39.92	11.74	59.28	100	0	Peak

Other harmonics are lower than background noise

Test Mode :	802.11a	**Temperature :**	24~25℃
Test Channel :	48	**Relative Humidity :**	46~47%
Test Engineer :	Gavin Wu		
Remark :	1. 5242 MHz is fundamental signal which can be ignored. 2. 10479 MHz is not within a restricted band and satisfies both the average and peak limits of 15.209. 3. Average measurement was not performed if peak level went lower than the average limit. 4. The harmonic (4th ,5th , 6th,…etc.) and other spurious are not reported, because those levels are lower than average limit line and background noise		



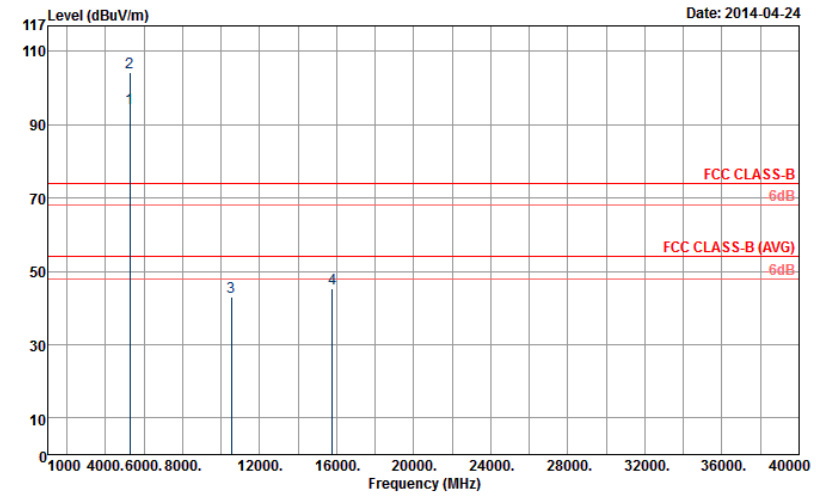
Site : 03CH06-HY
Condition : FCC CLASS-B 3m SHF-EHF HORN VERTICAL

ANTENNA POLARITY : VERTICAL

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5242	90.52	-	-	79.38	34.55	10.58	33.99	200	105	Average
5242	100.07	-	-	88.93	34.55	10.58	33.99	200	105	Peak
10479	43.49	-30.51	74	56.07	37.28	10.66	60.52	100	0	Peak
15720	45.82	-28.18	74	53.44	39.92	11.74	59.28	100	0	Peak

Other harmonics are lower than background noise

Test Mode :	802.11a	**Temperature :**	24~25℃
Test Channel :	52	**Relative Humidity :**	46~47%
Test Engineer :	Gavin Wu		
Remark :	1. 5262 MHz is fundamental signal which can be ignored. 2. 10521 MHz is not within a restricted band and satisfies both the average and peak limits of 15.209. 3. Average measurement was not performed if peak level went lower than the average limit. 4. The harmonic (4th ,5th , 6th,…etc.) and other spurious are not reported, because those levels are lower than average limit line and background noise		

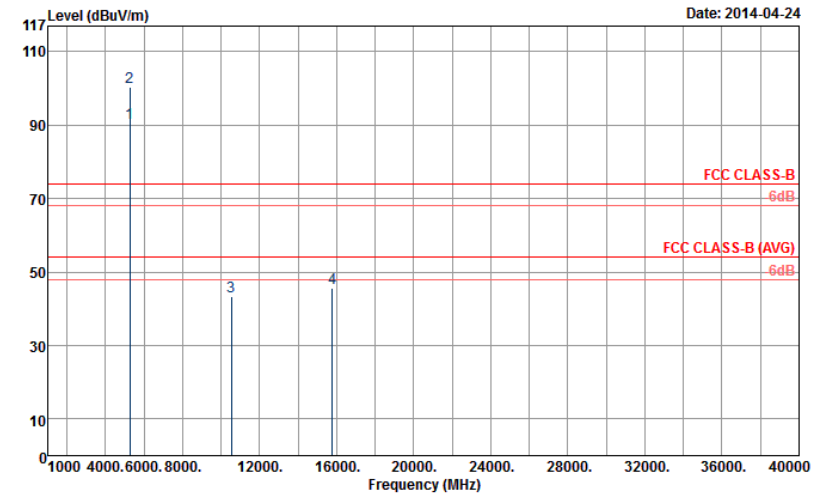


ANTENNA POLARITY : HORIZONTAL

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5262	94.51	-	-	83.31	34.57	10.61	33.98	100	345	Average
5262	104.21	-	-	93.01	34.57	10.61	33.98	100	345	Peak
10521	42.96	-31.04	74	55.43	37.31	10.67	60.45	100	0	Peak
15780	45.23	-28.77	74	52.75	39.98	11.72	59.22	100	0	Peak

Other harmonics are lower than background noise

Test Mode :	802.11a	**Temperature :**	24~25℃
Test Channel :	52	**Relative Humidity :**	46~47%
Test Engineer :	Gavin Wu		
Remark :	1. 5262 MHz is fundamental signal which can be ignored. 2. 10521 MHz is not within a restricted band and satisfies both the average and peak limits of 15.209. 3. Average measurement was not performed if peak level went lower than the average limit. 4. The harmonic (4th ,5th , 6th,…etc.) and other spurious are not reported, because those levels are lower than average limit line and background noise		

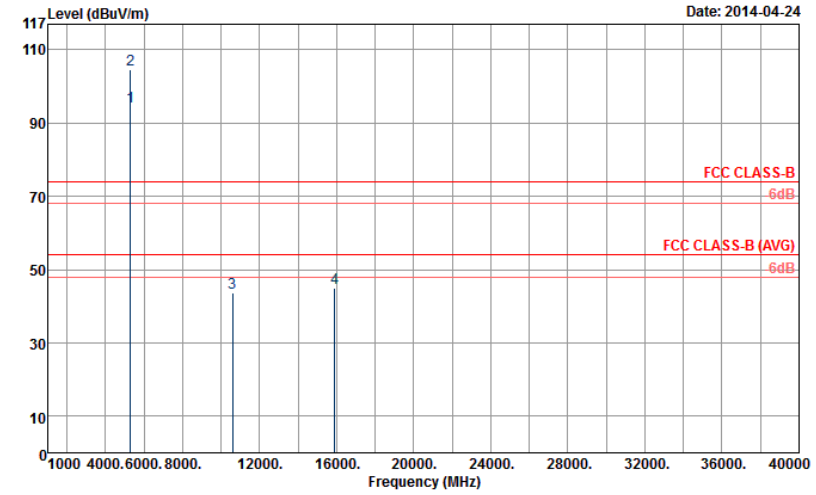


ANTENNA POLARITY : VERTICAL

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5262	90.51	-	-	79.31	34.57	10.61	33.98	100	91	Average
5262	100.51	-	-	89.31	34.57	10.61	33.98	100	91	Peak
10521	43.33	-30.67	74	55.8	37.31	10.67	60.45	100	0	Peak
15780	45.72	-28.28	74	53.24	39.98	11.72	59.22	100	0	Peak

Other harmonics are lower than background noise

Test Mode :	802.11a	**Temperature :**	24~25℃
Test Channel :	60	**Relative Humidity :**	46~47%
Test Engineer :	Gavin Wu		
Remark :	1. 5302 MHz is fundamental signal which can be ignored. 2. 10599 MHz is not within a restricted band and satisfies both the average and peak limits of 15.209. 3. Average measurement was not performed if peak level went lower than the average limit. 4. The harmonic (4th ,5th , 6th,…etc.) and other spurious are not reported, because those levels are lower than average limit line and background noise		

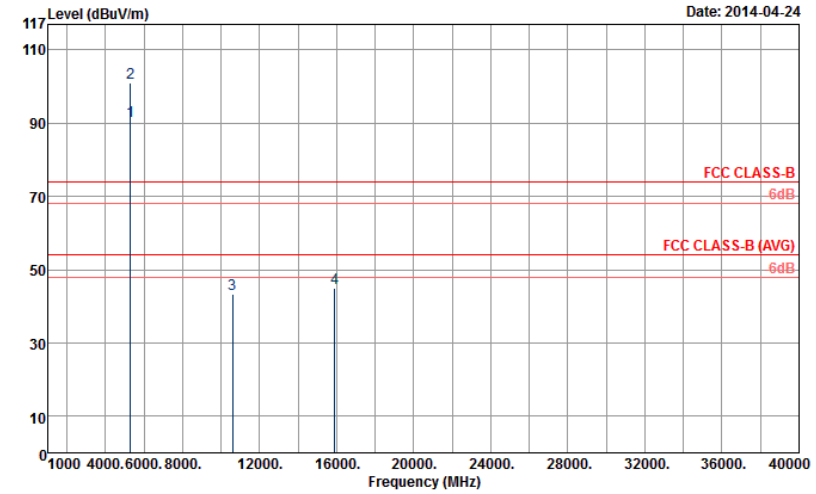


ANTENNA POLARITY : HORIZONTAL

Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5302	94.44	-	-	83.17	34.6	10.65	33.98	100	345	Average
5302	104.63	-	-	93.36	34.6	10.65	33.98	100	345	Peak
10599	43.63	-30.37	74	55.8	37.36	10.68	60.21	100	0	Peak
15900	44.92	-29.08	74	52.24	40.1	11.68	59.1	100	0	Peak

Other harmonics are lower than background noise

Test Mode :	802.11a	**Temperature :**	24~25℃
Test Channel :	60	**Relative Humidity :**	46~47%
Test Engineer :	Gavin Wu		
Remark :	1. 5302 MHz is fundamental signal which can be ignored. 2. 10599 MHz is not within a restricted band and satisfies both the average and peak limits of 15.209. 3. Average measurement was not performed if peak level went lower than the average limit. 4. The harmonic (4th ,5th , 6th,…etc.) and other spurious are not reported, because those levels are lower than average limit line and background noise.		



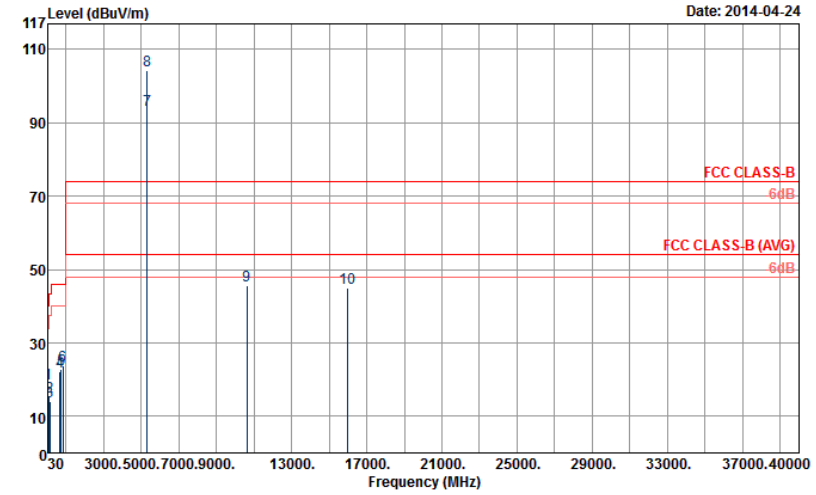
Site : 03CH06-HY
Condition : FCC CLASS-B 3m SHF-EHF HORN VERTICAL

ANTENNA POLARITY : VERTICAL

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5302	90.64	-	-	79.37	34.6	10.65	33.98	200	92	Average
5302	100.92	-	-	89.65	34.6	10.65	33.98	200	92	Peak
10599	43.41	-30.59	74	55.58	37.36	10.68	60.21	100	0	Peak
15900	45.04	-28.96	74	52.36	40.1	11.68	59.1	100	0	Peak

Other harmonics are lower than background noise

Test Mode :	802.11a	**Temperature :**	24~25℃
Test Channel :	64	**Relative Humidity :**	46~47%
Test Engineer :	Gavin Wu		
Remark :	1. 5322 MHz is fundamental signal which can be ignored. 2. Average measurement was not performed if peak level went lower than the average limit. 3. The harmonic (4th ,5th , 6th,…etc.) and other spurious are not reported, because those levels are lower than average limit line and background noise.		

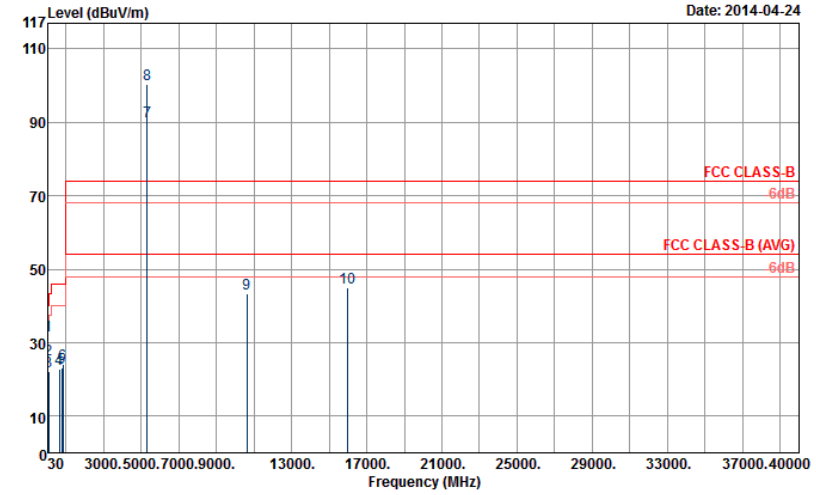


ANTENNA POLARITY : HORIZONTAL

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
30	18.81	-21.19	40	31.47	18.5	0.64	31.8	100	120	Peak
98.85	15.26	-28.24	43.5	35.25	10.66	1.1	31.75	-	-	Peak
135.3	14.11	-29.39	43.5	33.07	11.5	1.29	31.75	-	-	Peak
667.5	22.27	-23.73	46	32	19.47	2.83	32.03	-	-	Peak
749.4	22.85	-23.15	46	31.59	20.2	3.05	31.99	-	-	Peak

ANTENNA POLARITY : HORIZONTAL										
Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
837.6	23.71	-22.29	46	31.63	20.68	3.19	31.79	-	-	Peak
5322	93.53	-	-	82.21	34.62	10.68	33.98	100	348	Average
5322	104.13	-	-	92.81	34.62	10.68	33.98	100	348	Peak
10641	45.71	-28.29	74	57.75	37.38	10.69	60.11	100	0	Peak
15960	45.08	-28.92	74	52.28	40.17	11.66	59.03	100	0	Peak
Other harmonics are lower than background noise										

Test Mode :	802.11a	**Temperature :**	24~25℃
Test Channel :	64	**Relative Humidity :**	46~47%
Test Engineer :	Gavin Wu		
Remark :	1. 5322 MHz is fundamental signal which can be ignored. 2. Average measurement was not performed if peak level went lower than the average limit. 3. The harmonic (4th ,5th , 6th,…etc.) and other spurious are not reported, because those levels are lower than average limit line and background noise		

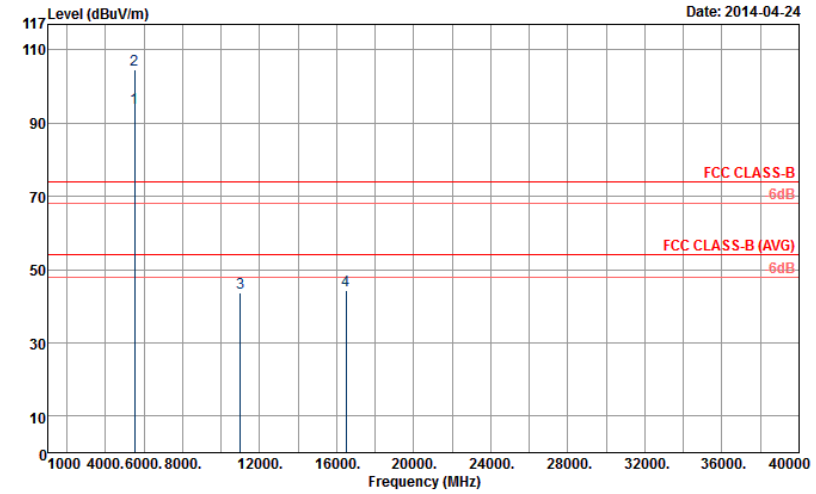


ANTENNA POLARITY : VERTICAL

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
30	32	-8	40	44.66	18.5	0.64	31.8	102	183	30
41.34	25.49	-14.51	40	44.95	11.58	0.75	31.79	-	-	41.34
73.2	22.21	-17.79	40	46.52	6.5	0.96	31.77	-	-	73.2
637.4	22.86	-23.14	46	32.46	19.66	2.79	32.05	-	-	637.4
779.5	23.21	-22.79	46	31.91	20.2	3.06	31.96	-	-	779.5

ANTENNA POLARITY : VERTICAL										
Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
842.5	23.97	-22.03	46	31.8	20.73	3.21	31.77	-	-	Peak
5322	90.21	-	-	78.89	34.62	10.68	33.98	200	99	Average
5322	100.37	-	-	89.05	34.62	10.68	33.98	200	99	Peak
10641	43.36	-30.64	74	55.4	37.38	10.69	60.11	100	0	Peak
15960	45	-29	74	52.2	40.17	11.66	59.03	100	0	Peak
Other harmonics are lower than background noise										

Test Mode :	802.11a	**Temperature :**	24~25℃
Test Channel :	100	**Relative Humidity :**	46~47%
Test Engineer :	Gavin Wu		
Remark :	1. 5498 MHz is fundamental signal which can be ignored. 2. 16500 MHz is not within a restricted band and satisfies both the average and peak limits of 15.209. 3. Average measurement was not performed if peak level went lower than the average limit. 4. The harmonic (4th ,5th , 6th,…etc.) and other spurious are not reported, because those levels are lower than average limit line and background noise		

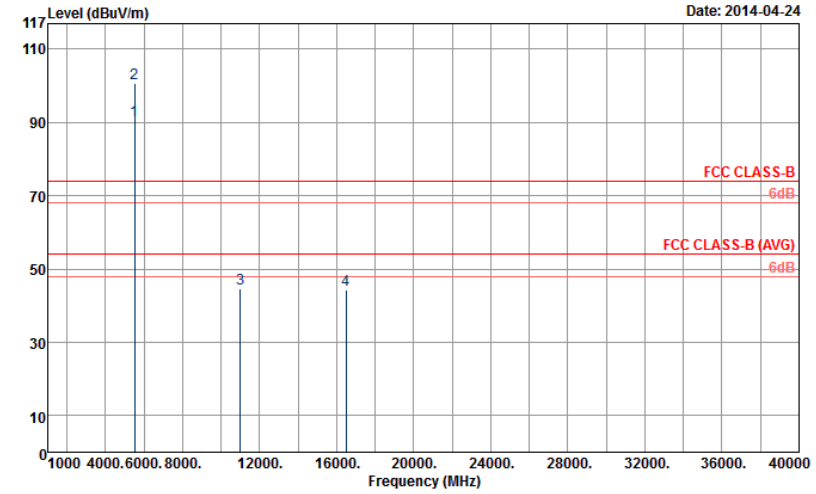


ANTENNA POLARITY : HORIZONTAL

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5498	94.1	-	-	82.37	34.78	10.93	33.98	121	340	Average
5498	104.47	-	-	92.74	34.78	10.93	33.98	121	340	Peak
11001	43.75	-30.25	74	54.49	37.6	10.76	59.1	100	0	Peak
16500	44.41	-29.59	74	50.49	41	11.82	58.9	100	0	Peak

Other harmonics are lower than background noise

Test Mode :	802.11a	**Temperature :**	24~25℃
Test Channel :	100	**Relative Humidity :**	46~47%
Test Engineer :	Gavin Wu		
Remark :	1. 5498 MHz is fundamental signal which can be ignored. 2. 16500 MHz is not within a restricted band and satisfies both the average and peak limits of 15.209. 3. Average measurement was not performed if peak level went lower than the average limit. 4. The harmonic (4th ,5th , 6th,…etc.) and other spurious are not reported, because those levels are lower than average limit line and background noise		

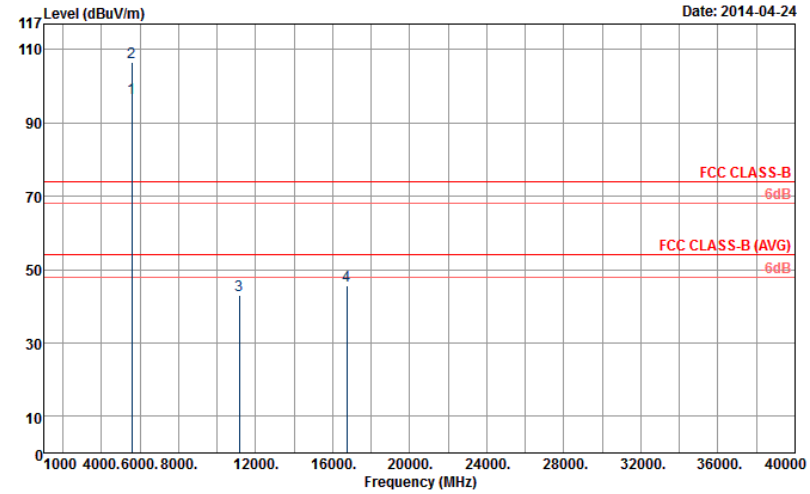


ANTENNA POLARITY : VERTICAL

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5498	90.47	-	-	78.74	34.78	10.93	33.98	100	319	Average
5498	100.64	-	-	88.91	34.78	10.93	33.98	100	319	Peak
11001	44.66	-29.34	74	55.4	37.6	10.76	59.1	100	0	Peak
16500	44.39	-29.61	74	50.47	41	11.82	58.9	100	0	Peak

Other harmonics are lower than background noise

Test Mode :	802.11a	**Temperature :**	24~25℃
Test Channel :	116	**Relative Humidity :**	46~47%
Test Engineer :	Gavin Wu		
Remark :	1. 5582 MHz is fundamental signal which can be ignored. 2. 16740 MHz is not within a restricted band and satisfies both the average and peak limits of 15.209. 3. Average measurement was not performed if peak level went lower than the average limit. 4. The harmonic (4th ,5th , 6th,…etc.) and other spurious are not reported, because those levels are lower than average limit line and background noise		

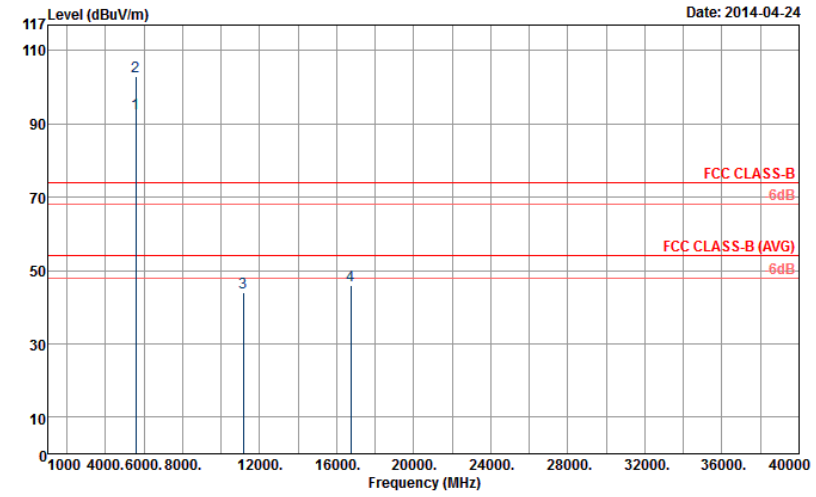


ANTENNA POLARITY : HORIZONTAL

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5582	96.83	-	-	84.84	34.89	11.09	33.99	106	344	Average
5582	106.54	-	-	94.55	34.89	11.09	33.99	106	344	Peak
11160	43.17	-30.83	74	53.56	37.67	10.84	58.9	100	0	Peak
16740	45.53	-28.47	74	51.14	41.24	11.91	58.76	100	0	Peak

Other harmonics are lower than background noise

Test Mode :	802.11a	**Temperature :**	24~25℃
Test Channel :	116	**Relative Humidity :**	46~47%
Test Engineer :	Gavin Wu		
Remark :	1. 5582 MHz is fundamental signal which can be ignored. 2. 16740 MHz is not within a restricted band and satisfies both the average and peak limits of 15.209. 3. Average measurement was not performed if peak level went lower than the average limit. 4. The harmonic (4th ,5th , 6th,…etc.) and other spurious are not reported, because those levels are lower than average limit line and background noise		

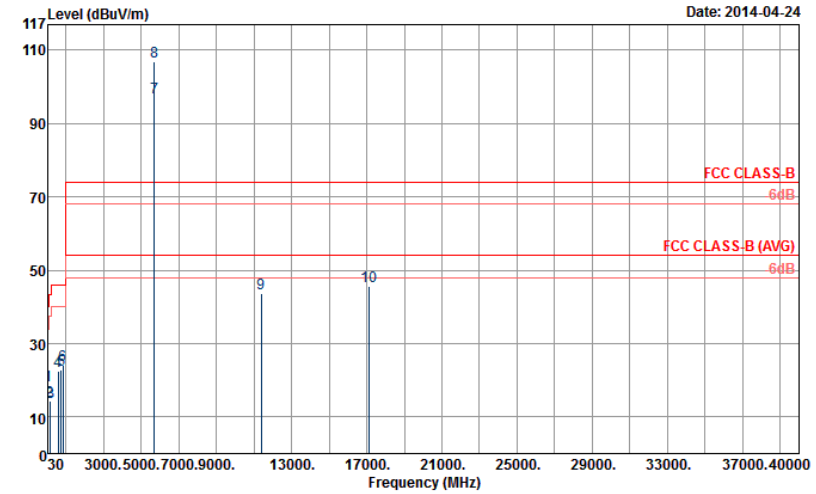


ANTENNA POLARITY : VERTICAL

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5582	92.78	-	-	80.79	34.89	11.09	33.99	101	82	Average
5582	103.03	-	-	91.04	34.89	11.09	33.99	101	82	Peak
11160	43.89	-30.11	74	54.28	37.67	10.84	58.9	100	0	Peak
16740	45.98	-28.02	74	51.59	41.24	11.91	58.76	100	0	Peak

Other harmonics are lower than background noise

Test Mode :	802.11a	**Temperature :**	24~25℃
Test Channel :	140	**Relative Humidity :**	46~47%
Test Engineer :	Gavin Wu		
Remark :	1. 5702 MHz is fundamental signal which can be ignored. 2. 17100 MHz is not within a restricted band and satisfies both the average and peak limits of 15.209. 3. Average measurement was not performed if peak level went lower than the average limit. 4. The harmonic (4th ,5th , 6th,…etc.) and other spurious are not reported, because those levels are lower than average limit line and background noise		

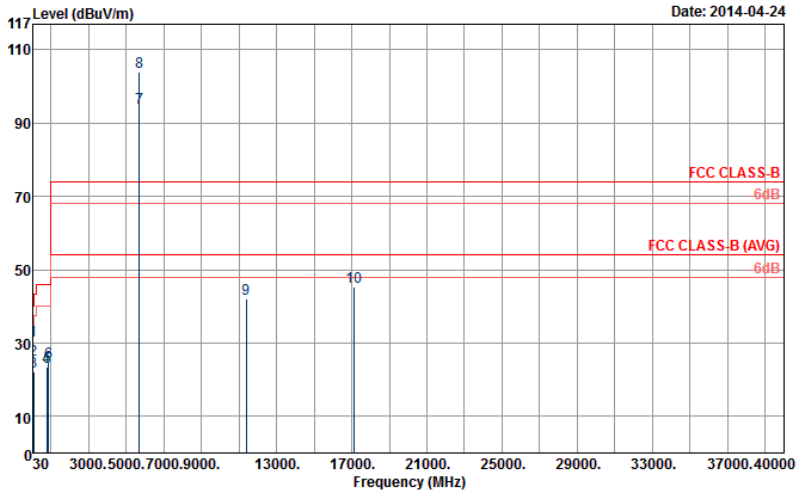


ANTENNA POLARITY : HORIZONTAL

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
30	18.66	-21.34	40	31.32	18.5	0.64	31.8	103	163	Peak
131.25	14.3	-29.2	43.5	33.34	11.44	1.27	31.75	-	-	Peak
178.5	13.89	-29.61	43.5	34.76	9.4	1.48	31.75	-	-	Peak
599.6	22.56	-23.44	46	32.46	19.39	2.77	32.06	-	-	Peak
734	22.77	-23.23	46	31.73	20.04	3	32	-	-	Peak
851.6	24.26	-21.74	46	31.95	20.8	3.24	31.73	-	-	Peak

ANTENNA POLARITY : HORIZONTAL										
Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5702	96.97	-	-	84.65	35.01	11.3	33.99	103	283	Average
5702	107.03	-	-	94.71	35.01	11.3	33.99	103	283	Peak
11400	43.55	-30.45	74	53.42	37.76	10.99	58.62	100	0	Peak
17100	45.7	-28.3	74	50.84	41.34	12.12	58.6	100	0	Peak
Other harmonics are lower than background noise										

Test Mode :	802.11a	**Temperature :**	24~25℃
Test Channel :	140	**Relative Humidity :**	46~47%
Test Engineer :	Gavin Wu		
Remark :	1. 5702 MHz is fundamental signal which can be ignored. 2. 17100 MHz is not within a restricted band and satisfies both the average and peak limits of 15.209. 3. Average measurement was not performed if peak level went lower than the average limit. 4. The harmonic (4th ,5th , 6th,…etc.) and other spurious are not reported, because those levels are lower than average limit line and background noise		



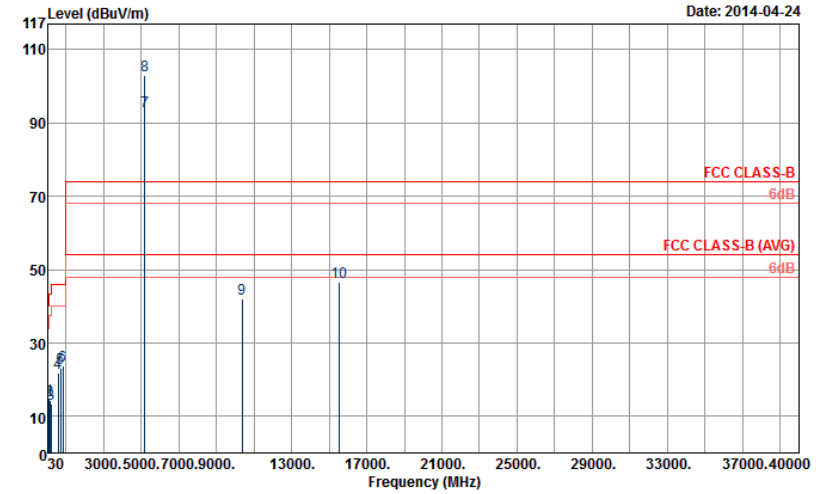
Site : 03CH06-HY
Condition : FCC CLASS-B 3m SHF-EHF HORN VERTICAL

ANTENNA POLARITY : VERTICAL

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
30	30.48	-9.52	40	43.14	18.5	0.64	31.8	100	111	Peak
40.8	25.43	-14.57	40	44.24	12.24	0.74	31.79	-	-	Peak
72.66	22.25	-17.75	40	46.57	6.5	0.95	31.77	-	-	Peak
790	23.4	-22.6	46	32.2	20.1	3.06	31.96	-	-	Peak
828.5	23.59	-22.41	46	31.7	20.56	3.16	31.83	-	-	Peak
884.5	24.69	-21.31	46	32.06	20.9	3.33	31.6	-	-	Peak

ANTENNA POLARITY : VERTICAL										
Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5702	94.31	-	-	81.99	35.01	11.3	33.99	101	82	Average
5702	103.87	-	-	91.55	35.01	11.3	33.99	101	82	Peak
11400	42.2	-31.8	74	52.07	37.76	10.99	58.62	100	0	Peak
17100	45.3	-28.7	74	50.44	41.34	12.12	58.6	100	0	Peak
Other harmonics are lower than background noise										

Test Mode :	802.11n HT20	**Temperature :**	24~25℃
Test Channel :	36	**Relative Humidity :**	46~47%
Test Engineer :	Gavin Wu		
Remark :	1. 5182 MHz is fundamental signal which can be ignored. 2. 10359 MHz is not within a restricted band and satisfies both the average and peak limits of 15.209. 3. Average measurement was not performed if peak level went lower than the average limit. 4. The harmonic (4th ,5th , 6th,…etc.) and other spurious are not reported, because those levels are lower than average limit line and background noise.		



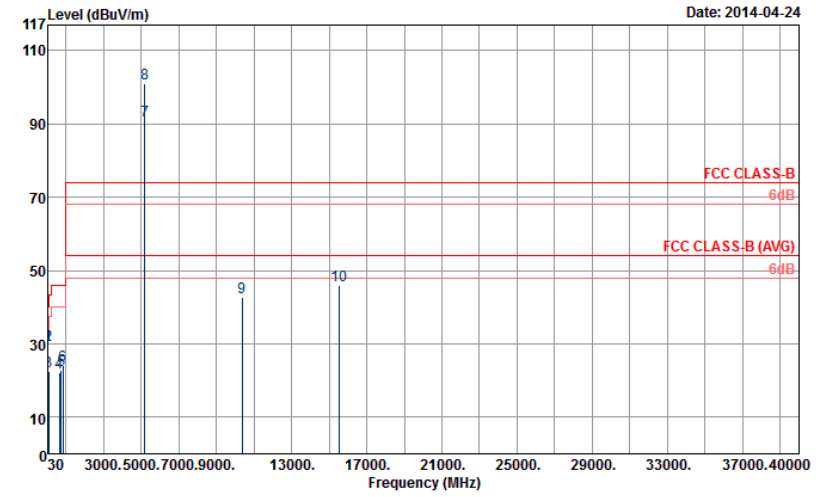
Site : 03CH06-HY
Condition : FCC CLASS-B 3m SHF-EHF HORN HORIZONTAL

ANTENNA POLARITY : HORIZONTAL

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
96.96	14.64	-28.86	43.5	34.92	10.38	1.09	31.75	-	-	Peak
129.36	14.42	-29.08	43.5	33.39	11.52	1.26	31.75	-	-	Peak
189.84	13.3	-30.2	43.5	34.47	9.1	1.48	31.75	-	-	Peak
580	21.91	-24.09	46	31.86	19.4	2.68	32.03	-	-	Peak
727	23.02	-22.98	46	32.09	19.95	2.98	32	-	-	Peak
846	23.85	-22.15	46	31.63	20.76	3.22	31.76	102	261	Peak

ANTENNA POLARITY : HORIZONTAL										
Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5182	93.31	-	-	82.35	34.48	10.47	33.99	100	314	Average
5182	103.08	-	-	92.12	34.48	10.47	33.99	100	314	Peak
10359	42.06	-31.94	74	54.94	37.17	10.64	60.69	100	0	Peak
15540	46.49	-27.51	74	54.44	39.73	11.79	59.47	100	0	Peak
Other harmonics are lower than background noise										

Test Mode :	802.11n HT20	**Temperature :**	24~25℃
Test Channel :	36	**Relative Humidity :**	46~47%
Test Engineer :	Gavin Wu		
Remark :	1. 5182 MHz is fundamental signal which can be ignored. 2. 10359MHz is not within a restricted band and satisfies both the average and peak limits of 15.209. 3. Average measurement was not performed if peak level went lower than the average limit. 4. The harmonic (4th, 5th, 6th,…etc.) and other spurious are not reported, because those levels are lower than average limit line and background noise.		

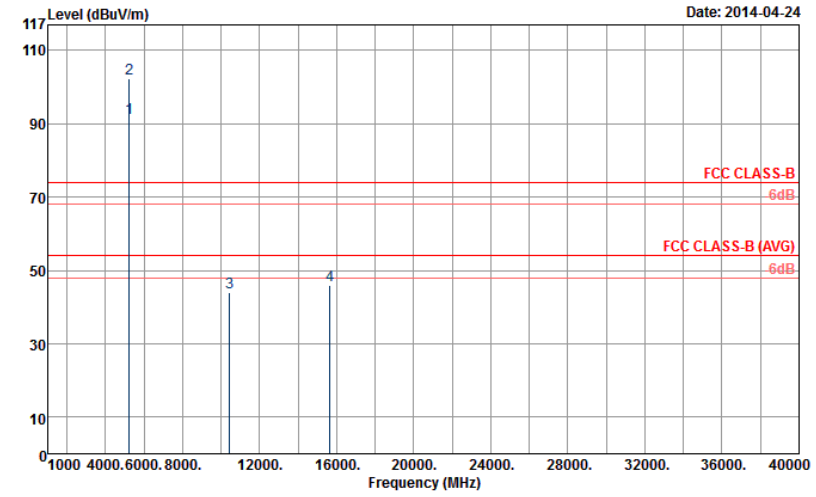


ANTENNA POLARITY : VERTICAL

Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
30	29.73	-10.27	40	42.39	18.5	0.64	31.8	100	178	Peak
33.24	29.65	-10.35	40	44.07	16.7	0.67	31.79	-	-	Peak
72.66	22.45	-17.55	40	46.77	6.5	0.95	31.77	-	-	Peak
662.6	22.21	-23.79	46	31.99	19.43	2.82	32.03	-	-	Peak
739.6	22.92	-23.08	46	31.79	20.1	3.02	31.99	-	-	Peak
830.6	24.01	-21.99	46	32.07	20.6	3.16	31.82	-	-	Peak

ANTENNA POLARITY : VERTICAL										
Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5182	90.83	-	-	79.87	34.48	10.47	33.99	112	105	Average
5182	101.12	-	-	90.16	34.48	10.47	33.99	112	105	Peak
10359	42.53	-31.47	74	55.41	37.17	10.64	60.69	100	0	Peak
15540	45.83	-28.17	74	53.78	39.73	11.79	59.47	100	0	Peak
Other harmonics are lower than background noise										

Test Mode :	802.11n HT20	**Temperature :**	24~25℃
Test Channel :	44	**Relative Humidity :**	46~47%
Test Engineer :	Gavin Wu		
Remark :	1. 5222 MHz is fundamental signal which can be ignored. 2. 10440 MHz is not within a restricted band and satisfies both the average and peak limits of 15.209. 3. Average measurement was not performed if peak level went lower than the average limit. 4. The harmonic (4th ,5th , 6th,…etc.) and other spurious are not reported, because those levels are lower than average limit line and background noise		

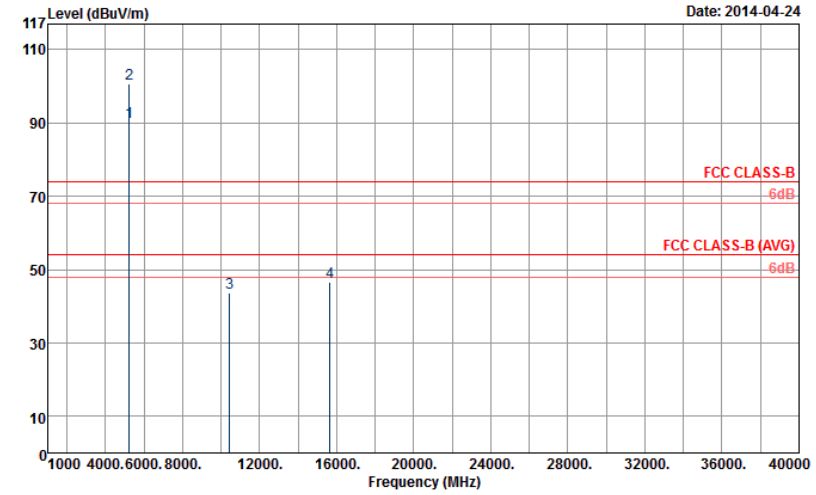


ANTENNA POLARITY : HORIZONTAL

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5222	91.68	-	-	80.61	34.52	10.54	33.99	100	324	Average
5222	102.43	-	-	91.36	34.52	10.54	33.99	100	324	Peak
10440	44.13	-29.87	74	56.84	37.23	10.65	60.59	100	0	Peak
15660	45.92	-28.08	74	53.65	39.86	11.75	59.34	100	0	Peak

Other harmonics are lower than background noise

Test Mode :	802.11n HT20	**Temperature :**	24~25℃
Test Channel :	44	**Relative Humidity :**	46~47%
Test Engineer :	Gavin Wu		
Remark :	1. 5222 MHz is fundamental signal which can be ignored. 2. 10440 MHz is not within a restricted band and satisfies both the average and peak limits of 15.209. 3. Average measurement was not performed if peak level went lower than the average limit. 4. The harmonic (4th ,5th , 6th,…etc.) and other spurious are not reported, because those levels are lower than average limit line and background noise		



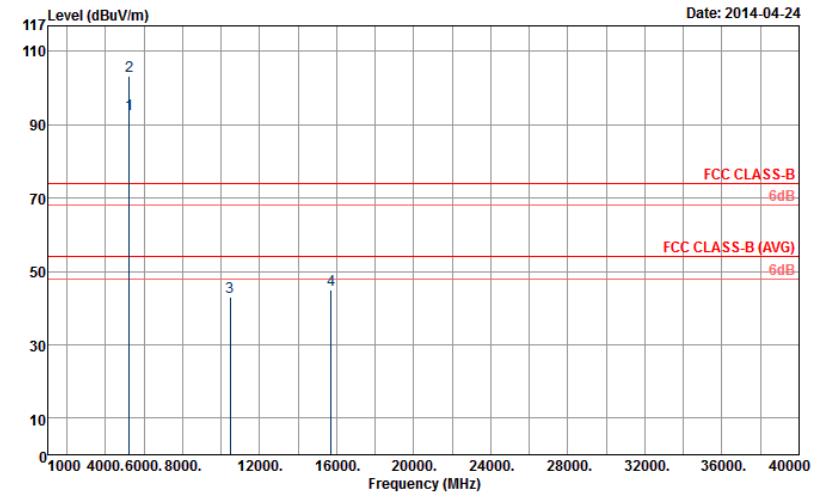
Site : 03CH06-HY
Condition : FCC CLASS-B 3m SHF-EHF HORN VERTICAL

ANTENNA POLARITY : VERTICAL

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5222	90.25	-	-	79.18	34.52	10.54	33.99	108	100	Average
5222	100.62	-	-	89.55	34.52	10.54	33.99	108	100	Peak
10440	43.68	-30.32	74	56.39	37.23	10.65	60.59	100	0	Peak
15660	46.46	-27.54	74	54.19	39.86	11.75	59.34	100	0	Peak

Other harmonics are lower than background noise

Test Mode :	802.11n HT20	**Temperature :**	24~25℃
Test Channel :	48	**Relative Humidity :**	46~47%
Test Engineer :	Gavin Wu		
Remark :	1. 5242 MHz is fundamental signal which can be ignored. 2. 10479 MHz is not within a restricted band and satisfies both the average and peak limits of 15.209. 3. Average measurement was not performed if peak level went lower than the average limit. 4. The harmonic (4th ,5th , 6th,…etc.) and other spurious are not reported, because those levels are lower than average limit line and background noise		



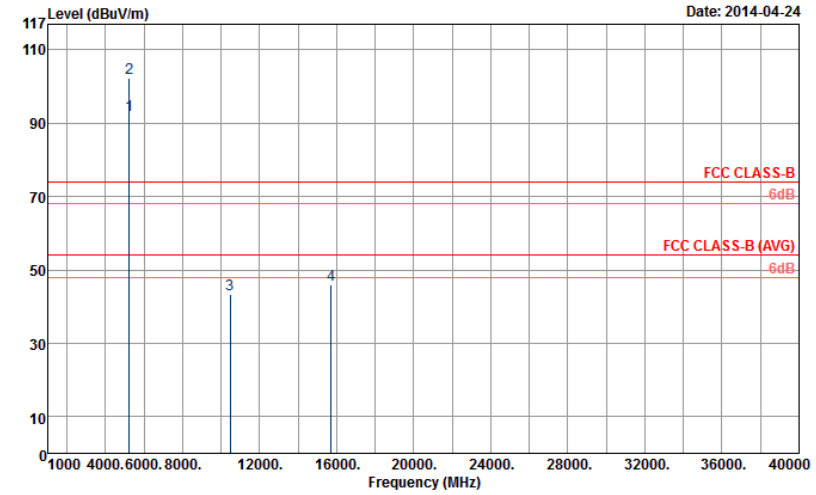
Site : 03CH06-HY
Condition : FCC CLASS-B 3m SHF-EHF HORN HORIZONTAL

ANTENNA POLARITY : HORIZONTAL

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5242	92.76	-	-	81.62	34.55	10.58	33.99	100	359	Average
5242	103.29	-	-	92.15	34.55	10.58	33.99	100	359	Peak
10479	42.86	-31.14	74	55.44	37.28	10.66	60.52	100	0	Peak
15720	44.88	-29.12	74	52.5	39.92	11.74	59.28	100	0	Peak

Other harmonics are lower than background noise

Test Mode :	802.11n HT20	**Temperature :**	24~25℃
Test Channel :	48	**Relative Humidity :**	46~47%
Test Engineer :	Gavin Wu		
Remark :	1. 5242 MHz is fundamental signal which can be ignored. 2. 10479 MHz is not within a restricted band and satisfies both the average and peak limits of 15.209. 3. Average measurement was not performed if peak level went lower than the average limit. 4. The harmonic (4th ,5th , 6th,…etc.) and other spurious are not reported, because those levels are lower than average limit line and background noise		

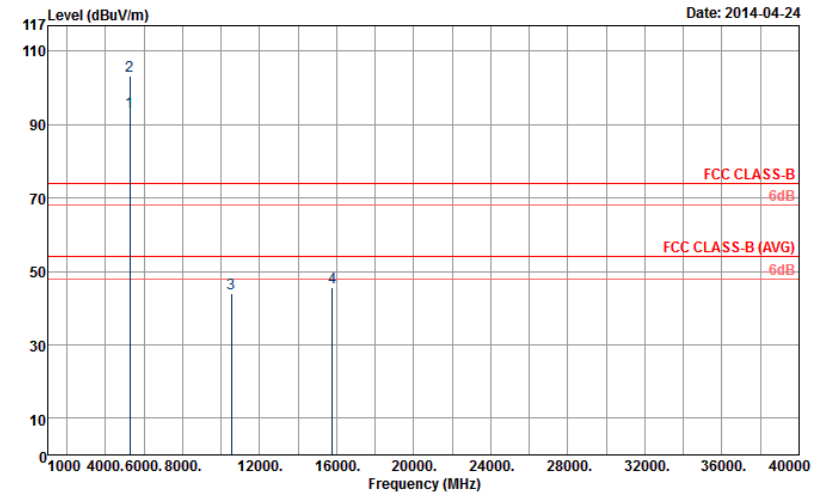


ANTENNA POLARITY : VERTICAL

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5242	92.32	-	-	81.18	34.55	10.58	33.99	108	100	Average
5242	102.28	-	-	91.14	34.55	10.58	33.99	108	100	Peak
10479	43.32	-30.68	74	55.9	37.28	10.66	60.52	100	0	Peak
15720	45.95	-28.05	74	53.57	39.92	11.74	59.28	100	0	Peak

Other harmonics are lower than background noise

Test Mode :	802.11n HT20	**Temperature :**	24~25℃
Test Channel :	52	**Relative Humidity :**	46~47%
Test Engineer :	Gavin Wu		
Remark :	1. 5262 MHz is fundamental signal which can be ignored. 2. 10521 MHz is not within a restricted band and satisfies both the average and peak limits of 15.209. 3. Average measurement was not performed if peak level went lower than the average limit. 4. The harmonic (4th ,5th , 6th,…etc.) and other spurious are not reported, because those levels are lower than average limit line and background noise		

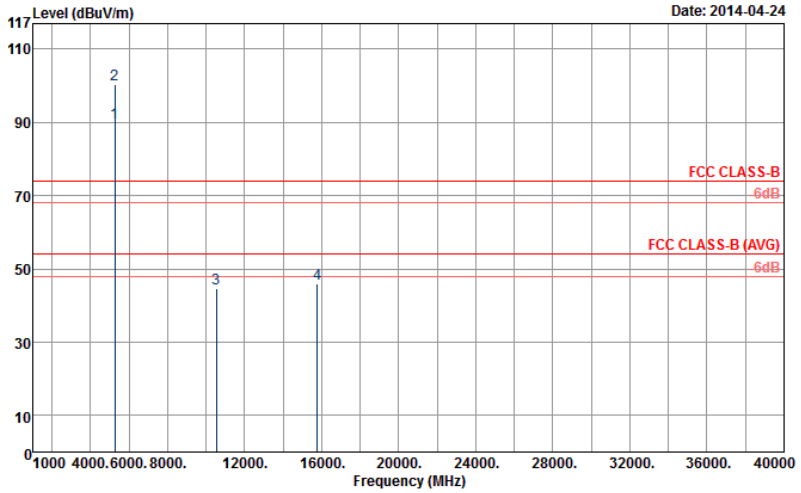


ANTENNA POLARITY : HORIZONTAL

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5262	93.52	-	-	82.32	34.57	10.61	33.98	100	356	Average
5262	103.42	-	-	92.22	34.57	10.61	33.98	100	356	Peak
10521	44.07	-29.93	74	56.54	37.31	10.67	60.45	100	0	Peak
15780	45.47	-28.53	74	52.99	39.98	11.72	59.22	100	0	Peak

Other harmonics are lower than background noise

Test Mode :	802.11n HT20	**Temperature :**	24~25℃
Test Channel :	52	**Relative Humidity :**	46~47%
Test Engineer :	Gavin Wu		
Remark :	1. 5262 MHz is fundamental signal which can be ignored. 2. 10520 MHz is not within a restricted band and satisfies both the average and peak limits of 15.209. 3. Average measurement was not performed if peak level went lower than the average limit. 4. The harmonic (4h ,5th , 6th,…etc.) and other spurious are not reported, because those levels are lower than average limit line and background noise		



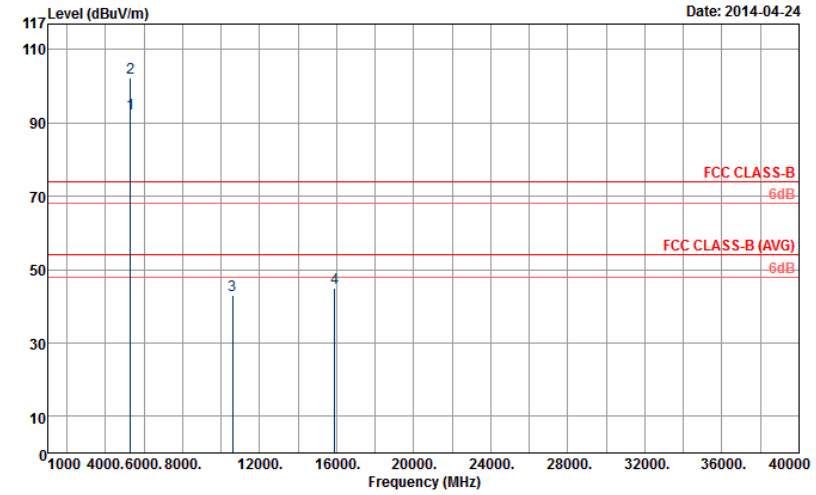
Site : 03CH06-HY
Condition : FCC CLASS-B 3m SHF-EHF HORN VERTICAL

ANTENNA POLARITY : VERTICAL

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5262	90.06	-	-	78.86	34.57	10.61	33.98	109	96	Average
5262	100.42	-	-	89.22	34.57	10.61	33.98	109	96	Peak
10520	44.56	-29.44	74	56.73	37.36	10.68	60.21	100	0	Peak
15780	45.84	-28.16	74	53.36	39.98	11.72	59.22	100	0	Peak

Other harmonics are lower than background noise

Test Mode :	802.11n HT20	**Temperature :**	24~25℃
Test Channel :	60	**Relative Humidity :**	46~47%
Test Engineer :	Gavin Wu		
Remark :	1. 5302 MHz is fundamental signal which can be ignored. 2. 10599 MHz is not within a restricted band and satisfies both the average and peak limits of 15.209. 3. Average measurement was not performed if peak level went lower than the average limit. 4. The harmonic (4th ,5th , 6h,…etc.) and other spurious are not reported, because those levels are lower than average limit line and background noise		

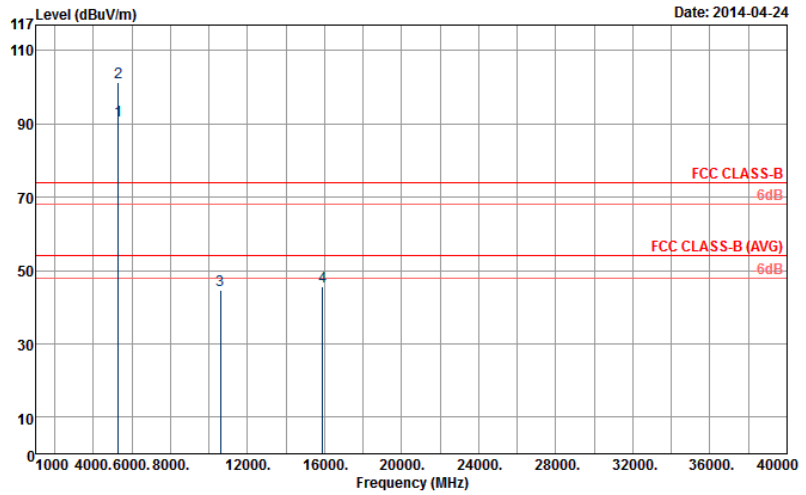


ANTENNA POLARITY : HORIZONTAL

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5302	92.6	-	-	81.33	34.6	10.65	33.98	100	357	Average
5302	102.49	-	-	91.22	34.6	10.65	33.98	100	357	Peak
10599	43.13	-30.87	74	55.3	37.36	10.68	60.21	100	0	Peak
15900	44.87	-29.13	74	52.19	40.1	11.68	59.1	100	0	Peak

Other harmonics are lower than background noise

Test Mode :	802.11n HT20	**Temperature :**	24~25℃
Test Channel :	60	**Relative Humidity :**	46~47%
Test Engineer :	Gavin Wu		
Remark :	1. 5302 MHz is fundamental signal which can be ignored. 2. 10599 MHz is not within a restricted band and satisfies both the average and peak limits of 15.209. 3. Average measurement was not performed if peak level went lower than the average limit. 4. The harmonic (4th ,5th , 6th,…etc.) and other spurious are not reported, because those levels are lower than average limit line and background noise		

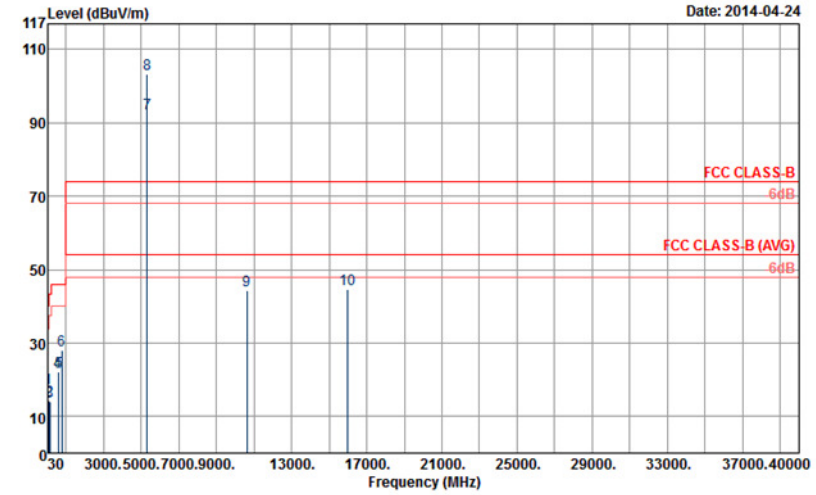


ANTENNA POLARITY : VERTICAL

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5302	90.89	-	-	79.62	34.6	10.65	33.98	109	96	Average
5302	101.46	-	-	90.19	34.6	10.65	33.98	109	96	Peak
10599	44.56	-29.44	74	56.73	37.36	10.68	60.21	100	0	Peak
15900	45.5	-28.5	74	52.82	40.1	11.68	59.1	100	0	Peak

Other harmonics are lower than background noise

Test Mode :	802.11n HT20	**Temperature :**	24~25℃
Test Channel :	64	**Relative Humidity :**	46~47%
Test Engineer :	Gavin Wu		
Remark :	1. 5322 MHz is fundamental signal which can be ignored. 2. Average measurement was not performed if peak level went lower than the average limit. 3. The harmonic (4th ,5th , 6th,…etc.) and other spurious are not reported, because those levels are lower than average limit line and background noise		

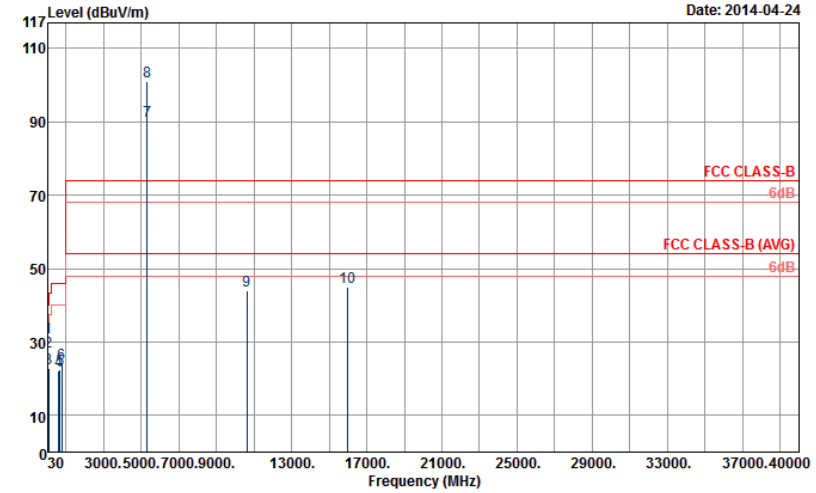


ANTENNA POLARITY : HORIZONTAL

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
30	17.5	-22.5	40	30.16	18.5	0.64	31.8	-	-	Peak
97.5	14.42	-29.08	43.5	34.56	10.52	1.09	31.75	-	-	Peak
130.44	13.87	-29.63	43.5	32.91	11.44	1.27	31.75	-	-	Peak
571.6	22.05	-23.95	46	32.12	19.31	2.64	32.02	-	-	Peak
602.4	22.21	-23.79	46	32.08	19.42	2.77	32.06	-	-	Peak
784.4	28.02	-17.98	46	36.77	20.15	3.06	31.96	105	145	Peak

ANTENNA POLARITY : HORIZONTAL										
Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5322	92.71	-	-	81.39	34.62	10.68	33.98	100	359	Average
5322	103.15	-	-	91.83	34.62	10.68	33.98	100	359	Peak
10640	44.3	-29.7	74	56.34	37.38	10.69	60.11	100	0	Peak
15960	44.72	-29.28	74	51.92	40.17	11.66	59.03	100	0	Peak
Other harmonics are lower than background noise										

Test Mode :	802.11n HT20	**Temperature :**	24~25℃
Test Channel :	64	**Relative Humidity :**	46~47%
Test Engineer :	Gavin Wu		
Remark :	1. 5322 MHz is fundamental signal which can be ignored. 2. Average measurement was not performed if peak level went lower than the average limit. 3. The harmonic (4th ,5th , 6th,…etc.) and other spurious are not reported, because those levels are lower than average limit line and background noise		

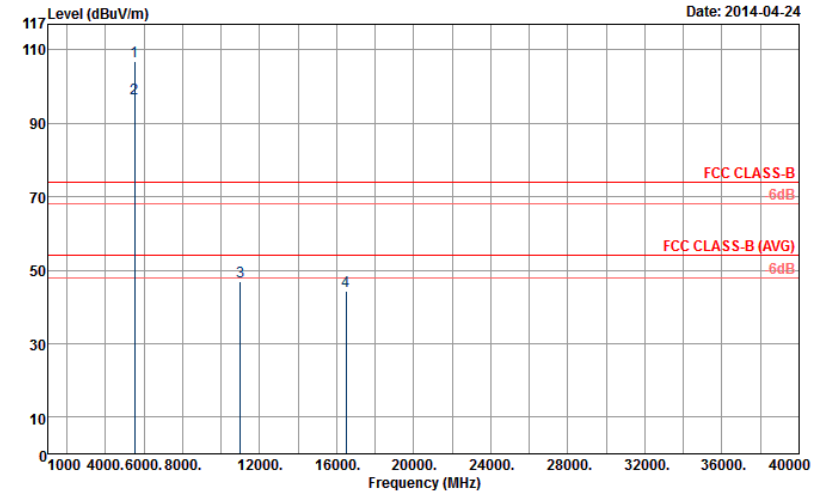


ANTENNA POLARITY : VERTICAL

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
30	31.25	-8.75	40	43.91	18.5	0.64	31.8	103	162	Peak
37.29	27.34	-12.66	40	44.47	13.94	0.72	31.79	-	-	Peak
71.85	22.96	-17.04	40	47.28	6.5	0.95	31.77	-	-	Peak
618.5	22.2	-23.8	46	31.88	19.59	2.78	32.05	-	-	Peak
681.5	22.62	-23.38	46	32.39	19.4	2.86	32.03	-	-	Peak
784.4	23.98	-22.02	46	32.73	20.15	3.06	31.96	-	-	Peak

ANTENNA POLARITY : VERTICAL										
Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5322	90.32	-	-	79	34.62	10.68	33.98	101	318	Average
5322	100.89	-	-	89.57	34.62	10.68	33.98	101	318	Peak
10640	43.97	-30.03	74	56.01	37.38	10.69	60.11	100	0	Peak
15960	45.08	-28.92	74	52.28	40.17	11.66	59.03	100	0	Peak
Other harmonics are lower than background noise										

Test Mode :	802.11n HT20	**Temperature :**	24~25℃
Test Channel :	100	**Relative Humidity :**	46~47%
Test Engineer :	Gavin Wu		
Remark :	1. 5502 MHz is fundamental signal which can be ignored. 2. 16500 MHz is not within a restricted band and satisfies both the average and peak limits of 15.209. 3. Average measurement was not performed if peak level went lower than the average limit. 4. The harmonic (4th ,5th , 6th,…etc.) and other spurious are not reported, because those levels are lower than average limit line and background noise		



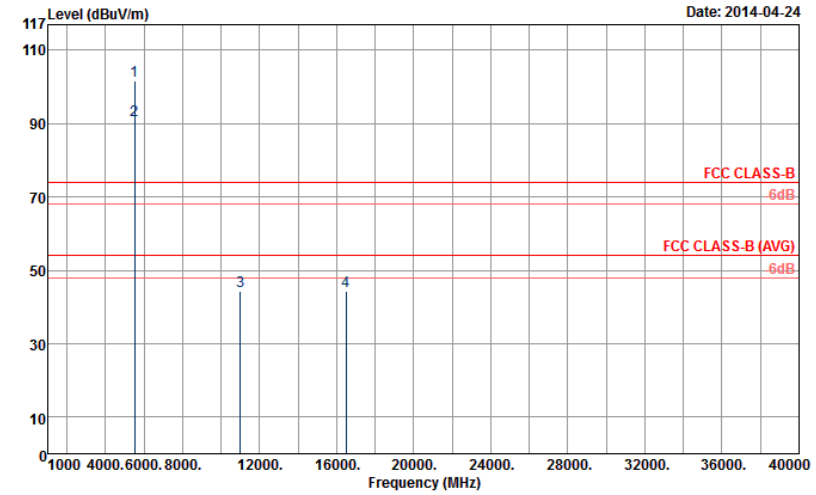
Site : 03CH06-HY
Condition : FCC CLASS-B 3m SHF-EHF HORN HORIZONTAL

ANTENNA POLARITY : HORIZONTAL

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5502	106.77	-	-	94.99	34.8	10.96	33.98	105	354	Peak
5502	96.87	-	-	85.09	34.8	10.96	33.98	105	354	Average
11000	46.78	-27.22	74	57.52	37.6	10.76	59.1	100	0	Peak
16500	44.44	-29.56	74	50.52	41	11.82	58.9	100	0	Peak

Other harmonics are lower than background noise

Test Mode :	802.11n HT20	**Temperature :**	24~25℃
Test Channel :	100	**Relative Humidity :**	46~47%
Test Engineer :	Gavin Wu		
Remark :	1. 5502 MHz is fundamental signal which can be ignored. 2. 16500 MHz is not within a restricted band and satisfies both the average and peak limits of 15.209. 3. Average measurement was not performed if peak level went lower than the average limit. 4. The harmonic (4th ,5th , 6th,…etc.) and other spurious are not reported, because those levels are lower than average limit line and background noise		



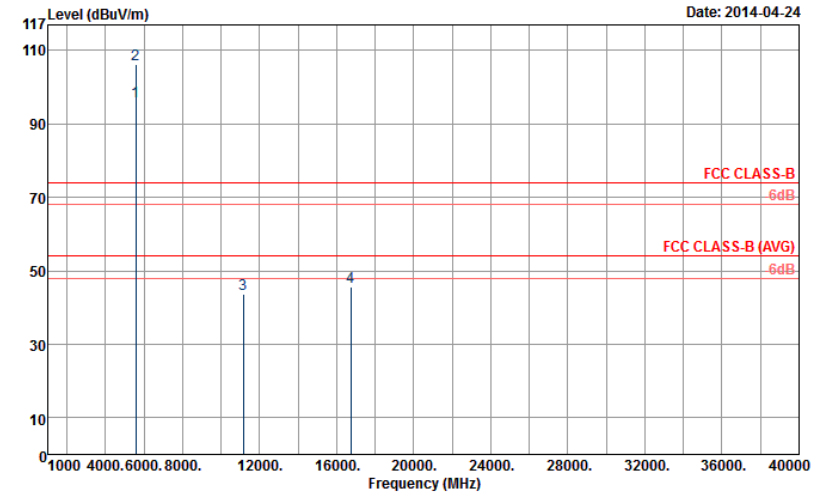
Site : 03CH06-HY
Condition : FCC CLASS-B 3m SHF-EHF HORN VERTICAL

ANTENNA POLARITY : VERTICAL

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5502	101.7	-	-	89.92	34.8	10.96	33.98	104	102	Peak
5502	91.02	-	-	79.24	34.8	10.96	33.98	104	102	Average
11000	44.24	-29.76	74	54.98	37.6	10.76	59.1	100	0	Peak
16500	44.38	-29.62	74	50.46	41	11.82	58.9	100	0	Peak

Other harmonics are lower than background noise

Test Mode :	802.11n HT20	**Temperature :**	24~25℃
Test Channel :	116	**Relative Humidity :**	46~47%
Test Engineer :	Gavin Wu		
Remark :	1. 5582 MHz is fundamental signal which can be ignored. 2. 16740 MHz is not within a restricted band and satisfies both the average and peak limits of 15.209. 3. Average measurement was not performed if peak level went lower than the average limit. 4. The harmonic (4th ,5th , 6th,…etc.) and other spurious are not reported, because those levels are lower than average limit line and background noise		

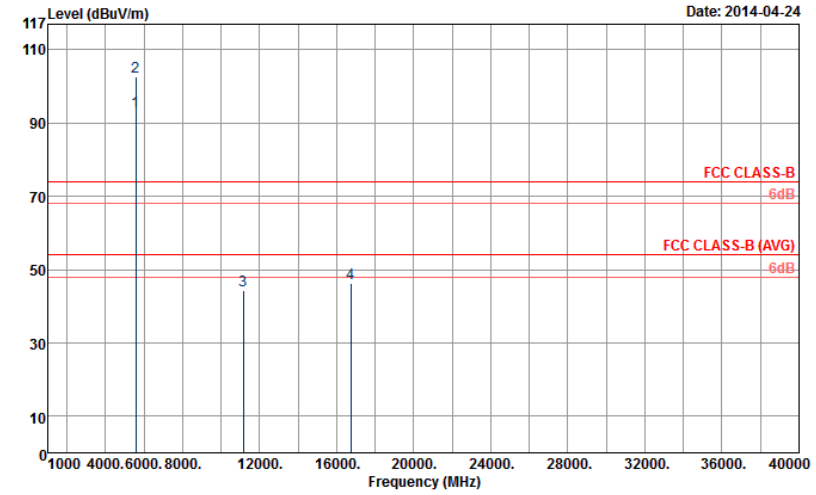


ANTENNA POLARITY : HORIZONTAL

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5582	96.07	-	-	84.08	34.89	11.09	33.99	104	358	Average
5582	106.25	-	-	94.26	34.89	11.09	33.99	104	358	Peak
11160	43.77	-30.23	74	54.16	37.67	10.84	58.9	100	0	Peak
16740	45.63	-28.37	74	51.24	41.24	11.91	58.76	100	0	Peak

Other harmonics are lower than background noise

Test Mode :	802.11n HT20	**Temperature :**	24~25℃
Test Channel :	116	**Relative Humidity :**	46~47%
Test Engineer :	Gavin Wu		
Remark :	1. 5582 MHz is fundamental signal which can be ignored. 2. 16740 MHz is not within a restricted band and satisfies both the average and peak limits of 15.209. 3. Average measurement was not performed if peak level went lower than the average limit. 4. The harmonic (4th ,5th , 6th,…etc.) and other spurious are not reported, because those levels are lower than average limit line and background noise		



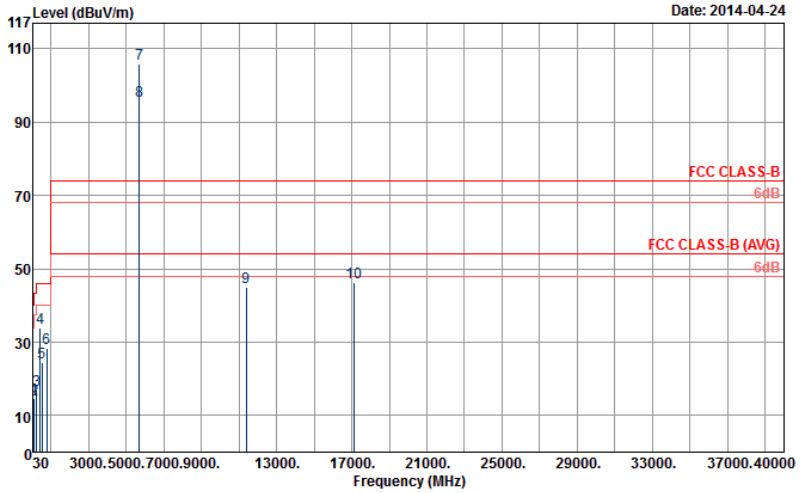
Site : 03CH06-HY
Condition : FCC CLASS-B 3m SHF-EHF HORN VERTICAL

ANTENNA POLARITY : VERTICAL

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5582	93.16	-	-	81.17	34.89	11.09	33.99	100	93	Average
5582	102.79	-	-	90.8	34.89	11.09	33.99	100	93	Peak
11160	44.35	-29.65	74	54.74	37.67	10.84	58.9	100	0	Peak
16740	46.12	-27.88	74	51.73	41.24	11.91	58.76	100	0	Peak

Other harmonics are lower than background noise

Test Mode :	802.11n HT20	**Temperature :**	24~25℃
Test Channel :	140	**Relative Humidity :**	46~47%
Test Engineer :	Gavin Wu		
Remark :	1. 5702 MHz is fundamental signal which can be ignored. 2. 17100 MHz is not within a restricted band and satisfies both the average and peak limits of 15.209. 3. Average measurement was not performed if peak level went lower than the average limit. 4. The harmonic (4th ,5th , 6th,…etc.) and other spurious are not reported, because those levels are lower than average limit line and background noise		



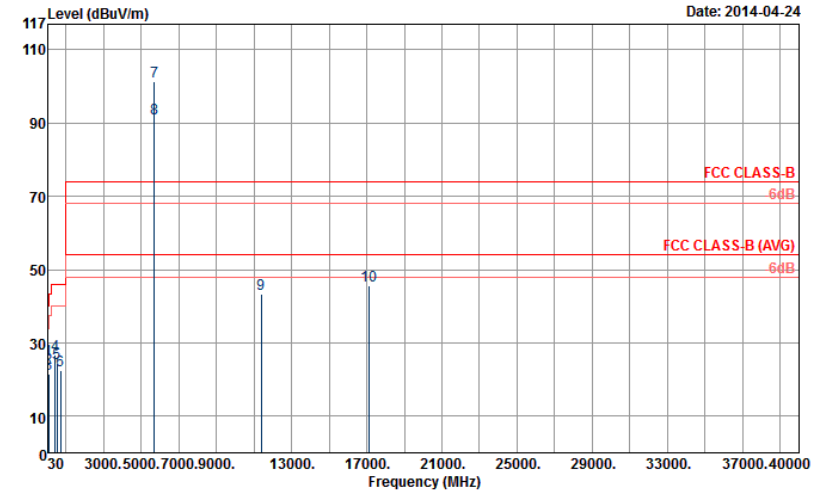
Site : 03CH06-HY
Condition : FCC CLASS-B 3m SHF-EHF HORN HORIZONTAL

ANTENNA POLARITY : HORIZONTAL

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
97.5	14.53	-28.97	43.5	34.67	10.52	1.09	31.75	-	-	Peak
106.14	14.31	-29.19	43.5	33.21	11.72	1.13	31.75	-	-	Peak
230.34	16.8	-29.2	46	36.57	10.32	1.65	31.74	-	-	Peak
422.5	34	-12	46	46.79	16.8	2.25	31.84	100	170	Peak
527.5	24.5	-21.5	46	35.71	18.24	2.52	31.97	-	-	Peak
784.4	28.38	-17.62	46	37.13	20.15	3.06	31.96	-	-	Peak

ANTENNA POLARITY : HORIZONTAL										
Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5702	105.93	-	-	93.61	35.01	11.3	33.99	100	300	Peak
5702	95.85	-	-	83.53	35.01	11.3	33.99	100	300	Average
11400	45.06	-28.94	74	54.93	37.76	10.99	58.62	100	0	Peak
17100	46.19	-27.81	74	51.33	41.34	12.12	58.6	100	0	Peak
Other harmonics are lower than background noise										

Test Mode :	802.11n HT20	**Temperature :**	24~25℃
Test Channel :	140	**Relative Humidity :**	46~47%
Test Engineer :	Gavin Wu		
Remark :	1. 5702 MHz is fundamental signal which can be ignored. 2. 17100 MHz is not within a restricted band and satisfies both the average and peak limits of 15.209. 3. Average measurement was not performed if peak level went lower than the average limit. 4. The harmonic (4th ,5th , 6th,…etc.) and other spurious are not reported, because those levels are lower than average limit line and background noise		



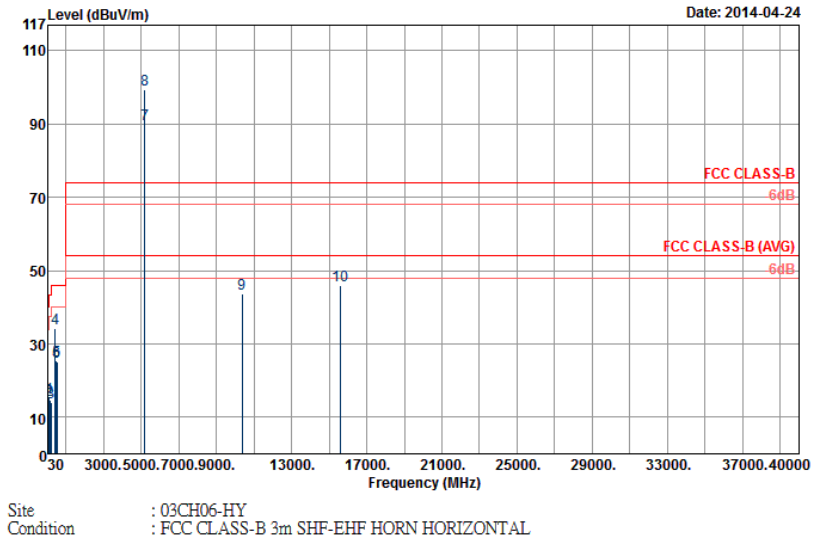
Site : 03CH06-HY
Condition : FCC CLASS-B 3m SHF-EHF HORN VERTICAL

ANTENNA POLARITY : VERTICAL

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
30	25.34	-14.66	40	38	18.5	0.64	31.8	102	128	Peak
41.34	23.05	-16.95	40	42.51	11.58	0.75	31.79	-	-	Peak
71.85	21.38	-18.62	40	45.7	6.5	0.95	31.77	-	-	Peak
434.4	26.78	-19.22	46	39.56	16.8	2.28	31.86	-	-	Peak
518.4	24.52	-21.48	46	35.97	17.99	2.51	31.95	-	-	Peak
716.5	22.34	-23.66	46	31.7	19.71	2.94	32.01	-	-	Peak

ANTENNA POLARITY : VERTICAL										
Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5702	101.48	-	-	89.16	35.01	11.3	33.99	100	99	Peak
5702	91.17	-	-	78.85	35.01	11.3	33.99	100	99	Average
11400	43.33	-30.67	74	53.2	37.76	10.99	58.62	100	0	Peak
17100	45.77	-28.23	74	50.91	41.34	12.12	58.6	100	0	Peak
Other harmonics are lower than background noise										

Test Mode :	802.11n HT40	**Temperature :**	24~25℃
Test Channel :	38	**Relative Humidity :**	46~47%
Test Engineer :	Gavin Wu		
Remark :	1. 5192 MHz is fundamental signal which can be ignored. 2. 10380 MHz is not within a restricted band and satisfies both the average and peak limits of 15.209. 3. Average measurement was not performed if peak level went lower than the average limit. 4. The harmonic (4th ,5th , 6th,…etc.) and other spurious are not reported, because those levels are lower than average limit line and background noise.		

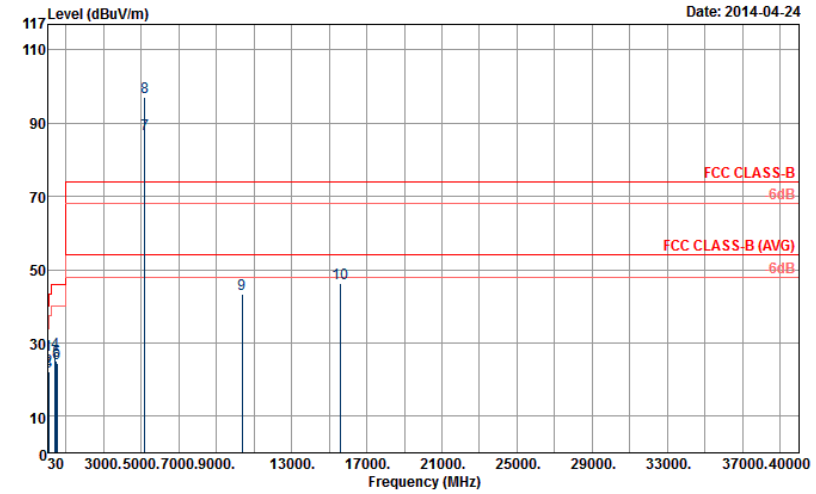


ANTENNA POLARITY : HORIZONTAL

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
97.5	15.47	-28.03	43.5	35.61	10.52	1.09	31.75	-	-	Peak
143.94	14.52	-28.98	43.5	34.18	10.77	1.32	31.75	-	-	Peak
190.65	14.14	-29.36	43.5	35.3	9.1	1.49	31.75	-	-	Peak
426	34.06	-11.94	46	46.86	16.8	2.25	31.85	104	187	Peak
483.4	25.43	-20.57	46	37.38	17.63	2.33	31.91	-	-	Peak
515.6	25.02	-20.98	46	36.5	17.96	2.51	31.95	-	-	Peak

ANTENNA POLARITY : HORIZONTAL										
Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5192	89.94	-	-	78.92	34.5	10.51	33.99	100	354	Average
5192	99.35	-	-	88.33	34.5	10.51	33.99	100	354	Peak
10380	43.75	-30.25	74	56.59	37.18	10.64	60.66	100	0	Peak
15570	45.88	-28.12	74	53.76	39.77	11.78	59.43	100	0	Peak
Other harmonics are lower than background noise										

Test Mode :	802.11n HT40	**Temperature :**	24~25℃
Test Channel :	38	**Relative Humidity :**	46~47%
Test Engineer :	Gavin Wu		
Remark :	1. 5192 MHz is fundamental signal which can be ignored. 2. 10380 MHz is not within a restricted band and satisfies both the average and peak limits of 15.209. 3. Average measurement was not performed if peak level went lower than the average limit. 4. The harmonic (4th ,5th , 6th,…etc.) and other spurious are not reported, because those levels are lower than average limit line and background noise		

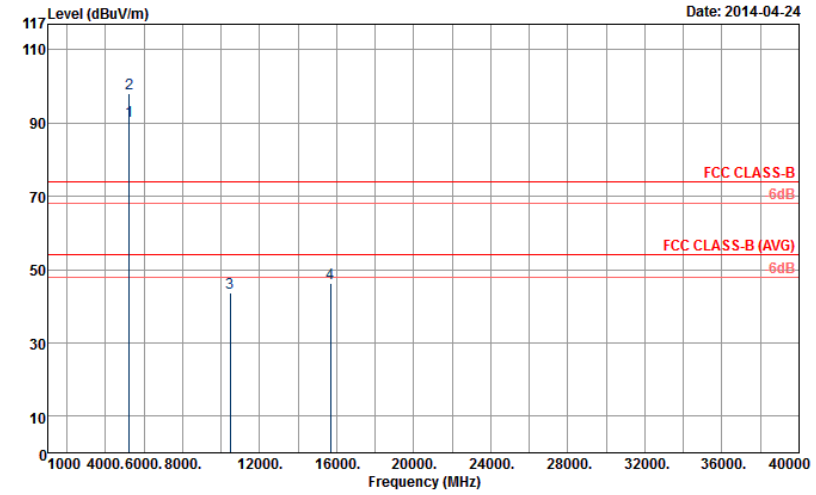


ANTENNA POLARITY : VERTICAL

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
32.7	26.83	-13.17	40	41.25	16.7	0.67	31.79	100	151	Peak
43.5	22.74	-17.26	40	43.51	10.26	0.76	31.79	-	-	Peak
71.85	22.01	-17.99	40	46.33	6.5	0.95	31.77	-	-	Peak
434.4	27.35	-18.65	46	40.13	16.8	2.28	31.86	-	-	Peak
476.4	25.09	-20.91	46	37.16	17.52	2.31	31.9	-	-	Peak
508.6	24.57	-21.43	46	36.13	17.88	2.5	31.94	-	-	Peak

ANTENNA POLARITY : VERTICAL										
Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5192	87.15	-	-	76.13	34.5	10.51	33.99	110	98	Average
5192	97.14	-	-	86.12	34.5	10.51	33.99	110	98	Peak
10380	43.25	-30.75	74	56.09	37.18	10.64	60.66	100	0	Peak
15570	46.26	-27.74	74	54.14	39.77	11.78	59.43	100	0	Peak
Other harmonics are lower than background noise										

Test Mode :	802.11n HT40	**Temperature :**	24~25℃
Test Channel :	46	**Relative Humidity :**	46~47%
Test Engineer :	Gavin Wu		
Remark :	1. 5232 MHz is fundamental signal which can be ignored. 2. 10460 MHz is not within a restricted band and satisfies both the average and peak limits of 15.209. 3. Average measurement was not performed if peak level went lower than the average limit. 4. The harmonic (4th ,5th , 6th,…etc.) and other spurious are not reported, because those levels are lower than average limit line and background noise		

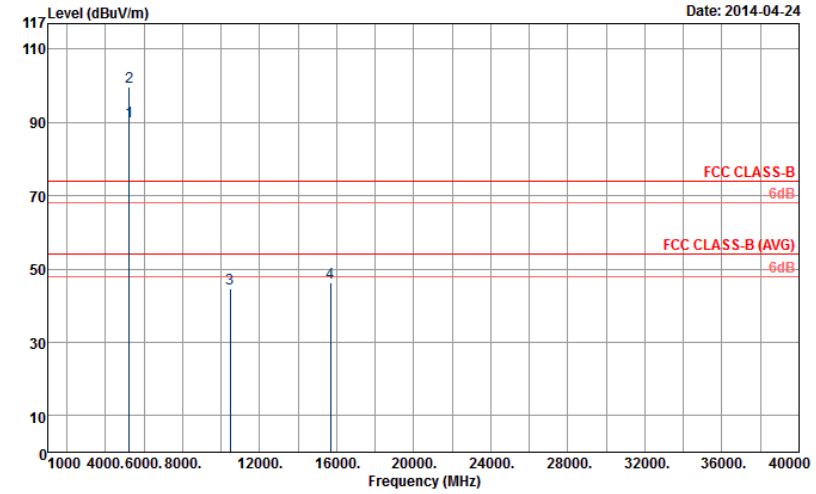


ANTENNA POLARITY : HORIZONTAL

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5232	90.7	-	-	79.63	34.52	10.54	33.99	100	313	Average
5232	98.1	-	-	87.03	34.52	10.54	33.99	100	313	Peak
10460	43.63	-30.37	74	56.25	37.27	10.66	60.55	100	0	Peak
15690	46.22	-27.78	74	53.89	39.89	11.75	59.31	100	0	Peak

Other harmonics are lower than background noise

Test Mode :	802.11n HT40	**Temperature :**	24~25℃
Test Channel :	46	**Relative Humidity :**	46~47%
Test Engineer :	Gavin Wu		
Remark :	1. 5232 MHz is fundamental signal which can be ignored. 2. 10460 MHz is not within a restricted band and satisfies both the average and peak limits of 15.209. 3. Average measurement was not performed if peak level went lower than the average limit. 4. The harmonic (4th ,5th , 6th,…etc.) and other spurious are not reported, because those levels are lower than average limit line and background noise		



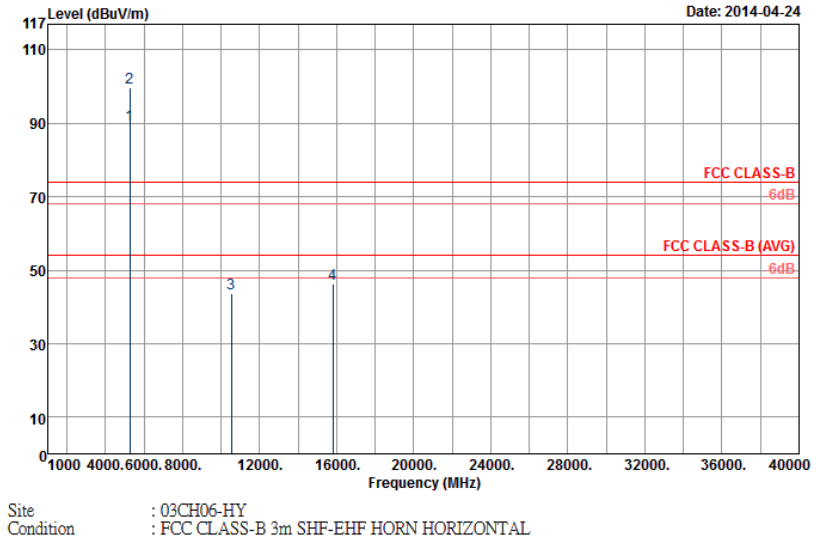
Site : 03CH06-HY
Condition : FCC CLASS-B 3m SHF-EHF HORN VERTICAL

ANTENNA POLARITY : VERTICAL

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5232	90.27	-	-	79.19	34.53	10.54	33.99	110	98	Average
5232	99.58	-	-	88.5	34.53	10.54	33.99	110	98	Peak
10460	44.67	-29.33	74	57.29	37.27	10.66	60.55	100	0	Peak
15690	46.19	-27.81	74	53.86	39.89	11.75	59.31	100	0	Peak

Other harmonics are lower than background noise

Test Mode :	802.11n HT40	**Temperature :**	24~25℃
Test Channel :	54	**Relative Humidity :**	46~47%
Test Engineer :	Gavin Wu		
Remark :	1. 5272 MHz is fundamental signal which can be ignored. 2. 10540 MHz is not within a restricted band and satisfies both the average and peak limits of 15.209. 3. Average measurement was not performed if peak level went lower than the average limit. 4. The harmonic (4th ,5th , 6th,…etc.) and other spurious are not reported, because those levels are lower than average limit line and background noise		

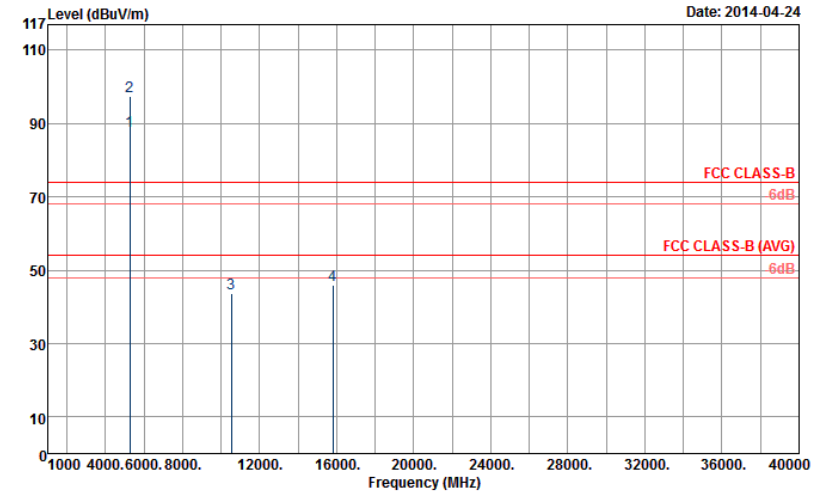


ANTENNA POLARITY : HORIZONTAL

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5272	89.5	-	-	78.3	34.57	10.61	33.98	100	358	Average
5272	99.73	-	-	88.53	34.57	10.61	33.98	100	358	Peak
10540	43.53	-30.47	74	55.94	37.32	10.67	60.4	100	0	Peak
15810	46.2	-27.8	74	53.67	40.01	11.71	59.19	100	0	Peak

Other harmonics are lower than background noise

Test Mode :	802.11n HT40	**Temperature :**	24~25℃
Test Channel :	54	**Relative Humidity :**	46~47%
Test Engineer :	Gavin Wu		
Remark :	1. 5272 MHz is fundamental signal which can be ignored. 2. 10540 MHz is not within a restricted band and satisfies both the average and peak limits of 15.209. 3. Average measurement was not performed if peak level went lower than the average limit. 4. The harmonic (4th ,5th , 6th,…etc.) and other spurious are not reported, because those levels are lower than average limit line and background noise		

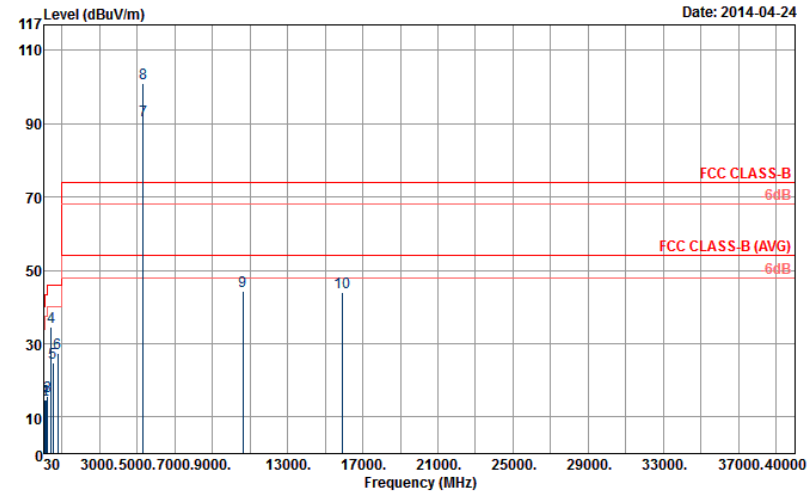


ANTENNA POLARITY : VERTICAL

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5272	87.85	-	-	76.65	34.57	10.61	33.98	108	103	Average
5272	97.55	-	-	86.35	34.57	10.61	33.98	108	103	Peak
10540	43.76	-30.24	74	56.17	37.32	10.67	60.4	100	0	Peak
15810	46.1	-27.9	74	53.57	40.01	11.71	59.19	100	0	Peak

Other harmonics are lower than background noise

Test Mode :	802.11n HT40	**Temperature :**	24~25℃
Test Channel :	62	**Relative Humidity :**	46~47%
Test Engineer :	Gavin Wu		
Remark :	1. 5312 MHz is fundamental signal which can be ignored. 2. Average measurement was not performed if peak level went lower than the average limit. 3. The harmonic (4th ,5th , 6th,…etc.) and other spurious are not reported, because those levels are lower than average limit line and background noise		



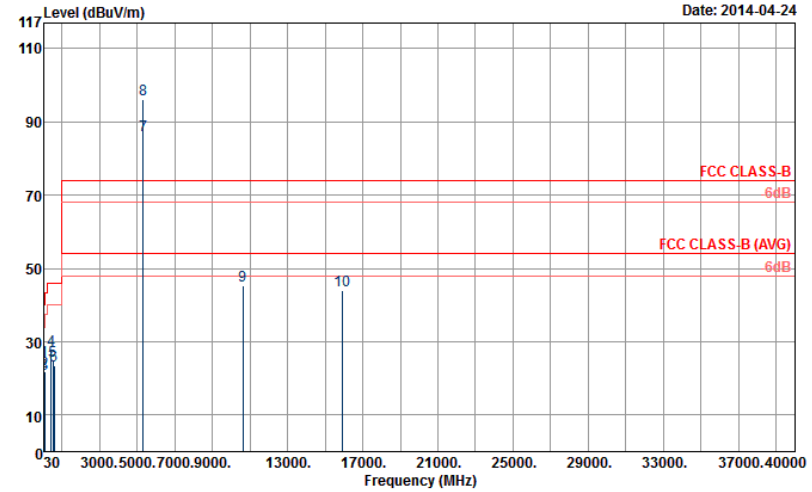
Site : 03CH06-HY
Condition : FCC CLASS-B 3m SHF-EHF HORN HORIZONTAL

ANTENNA POLARITY : HORIZONTAL

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
120.45	14.64	-28.86	43.5	32.97	12.2	1.22	31.75	-	-	Peak
132.06	14.52	-28.98	43.5	33.51	11.48	1.28	31.75	-	-	Peak
224.4	15.73	-30.27	46	36.23	9.6	1.64	31.74	-	-	Peak
426	34.53	-11.47	46	47.33	16.8	2.25	31.85	105	202	Peak
508.6	24.89	-21.11	46	36.45	17.88	2.5	31.94	-	-	Peak
784.4	27.53	-18.47	46	36.28	20.15	3.06	31.96	-	-	Peak

ANTENNA POLARITY : HORIZONTAL										
Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5312	90.99	-	-	79.67	34.62	10.68	33.98	100	358	Average
5312	101.06	-	-	89.74	34.62	10.68	33.98	100	358	Peak
10620	44.36	-29.64	74	56.46	37.37	10.69	60.16	100	0	Peak
15930	43.94	-30.06	74	51.21	40.13	11.67	59.07	100	0	Peak
Other harmonics are lower than background noise										

Test Mode :	802.11n HT40	Temperature :	24~25℃
Test Channel :	62	Relative Humidity :	46~47%
Test Engineer :	Gavin Wu		
Remark :	1. 5312 MHz is fundamental signal which can be ignored. 2. Average measurement was not performed if peak level went lower than the average limit. 3. The harmonic (4th ,5th , 6th,…etc.) and other spurious are not reported, because those levels are lower than average limit line and background noise		

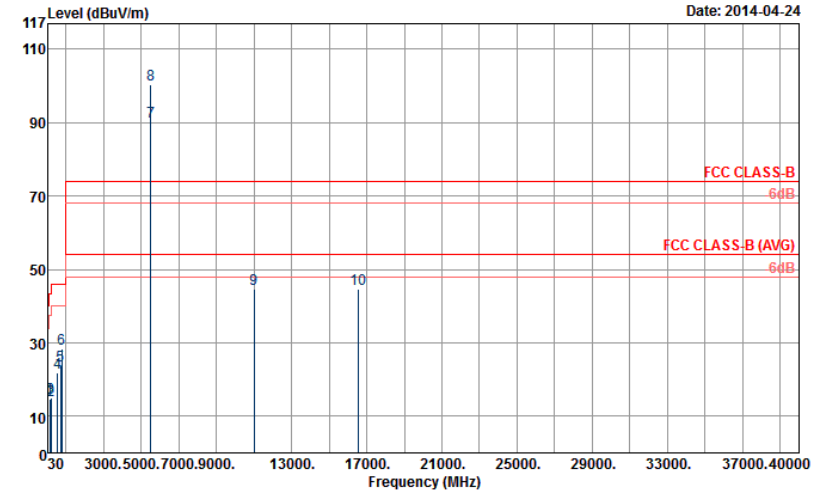


ANTENNA POLARITY : VERTICAL

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
30	24.91	-15.09	40	37.57	18.5	0.64	31.8	100	146	Peak
70.5	21.71	-18.29	40	46.04	6.5	0.94	31.77	-	-	Peak
91.56	21.34	-22.16	43.5	43.14	8.9	1.06	31.76	-	-	Peak
434.4	27.81	-18.19	46	40.59	16.8	2.28	31.86	-	-	Peak
515.6	24.88	-21.12	46	36.36	17.96	2.51	31.95	-	-	Peak
585.6	23.46	-22.54	46	33.46	19.34	2.7	32.04	-	-	Peak

ANTENNA POLARITY : VERTICAL										
Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5312	86.22	-	-	74.9	34.62	10.68	33.98	108	103	Average
5312	96.22	-	-	84.9	34.62	10.68	33.98	108	103	Peak
10620	45.31	-28.69	74	57.41	37.37	10.69	60.16	100	0	Peak
15930	43.84	-30.16	74	51.11	40.13	11.67	59.07	100	0	Peak
Other harmonics are lower than background noise										

Test Mode :	802.11n HT40	**Temperature :**	24~25℃
Test Channel :	102	**Relative Humidity :**	46~47%
Test Engineer :	Gavin Wu		
Remark :	1. 5512 MHz is fundamental signal which can be ignored. 2. 16530 MHz is not within a restricted band and satisfies both the average and peak limits of 15.209. 3. Average measurement was not performed if peak level went lower than the average limit. 4. The harmonic (4th ,5th , 6th,…etc.) and other spurious are not reported, because those levels are lower than average limit line and background noise		



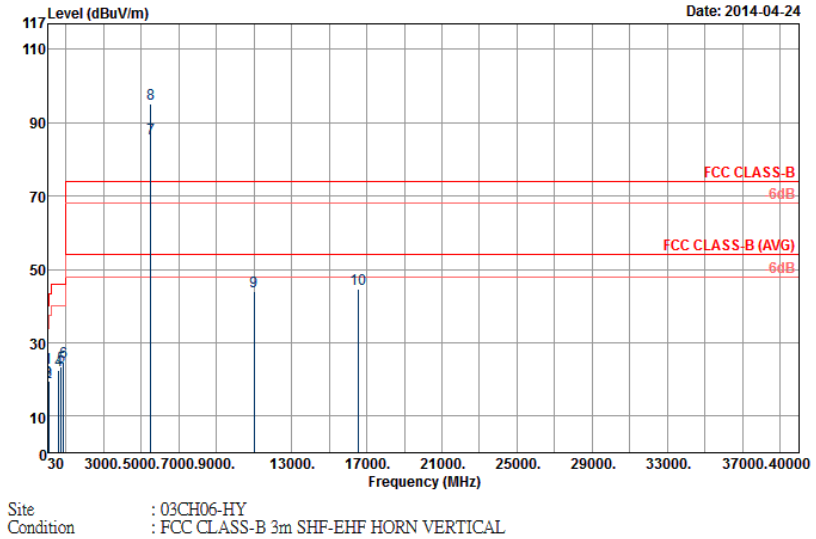
Site : 03CH06-HY
Condition : FCC CLASS-B 3m SHF-EHF HORN HORIZONTAL

ANTENNA POLARITY : HORIZONTAL

Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
132.06	14.52	-28.98	43.5	33.51	11.48	1.28	31.75	-	-	Peak
192	14.49	-29.01	43.5	35.65	9.1	1.49	31.75	-	-	Peak
214.14	14.86	-28.64	43.5	35.88	9.14	1.59	31.75	-	-	Peak
562.5	21.81	-24.19	46	31.92	19.3	2.6	32.01	-	-	Peak
721.4	23.73	-22.27	46	32.94	19.84	2.96	32.01	-	-	Peak
784.4	28.32	-17.68	46	37.07	20.15	3.06	31.96	100	178	Peak

ANTENNA POLARITY : HORIZONTAL										
Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5512	90.35	-	-	78.57	34.8	10.96	33.98	106	358	Average
5512	100.35	-	-	88.57	34.8	10.96	33.98	106	358	Peak
11020	44.62	-29.38	74	55.33	37.61	10.76	59.08	100	0	Peak
16530	44.78	-29.22	74	50.8	41.03	11.83	58.88	100	0	Peak
Other harmonics are lower than background noise										

Test Mode :	802.11n HT40	**Temperature :**	24~25℃
Test Channel :	102	**Relative Humidity :**	46~47%
Test Engineer :	Gavin Wu		
Remark :	1. 5512 MHz is fundamental signal which can be ignored. 2. 16530 MHz is not within a restricted band and satisfies both the average and peak limits of 15.209. 3. Average measurement was not performed if peak level went lower than the average limit. 4. The harmonic (4th ,5th , 6th,…etc.) and other spurious are not reported, because those levels are lower than average limit line and background noise		

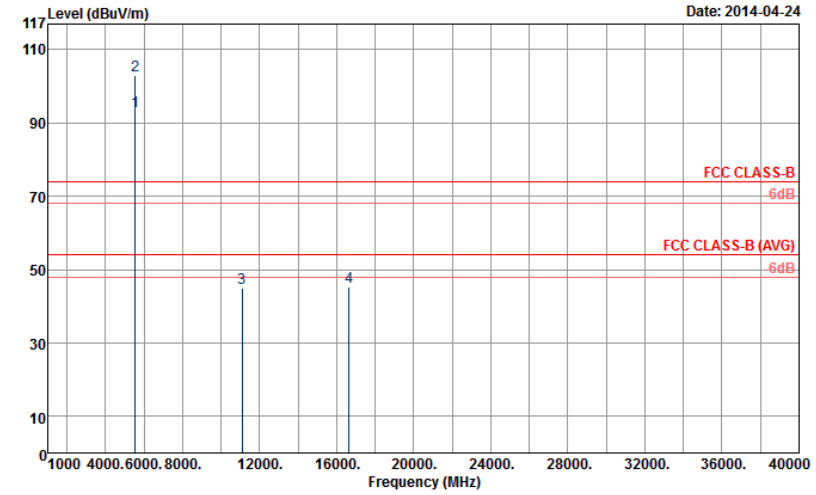


ANTENNA POLARITY : VERTICAL

Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
30	23.01	-16.99	40	35.67	18.5	0.64	31.8	100	163	Peak
42.96	19.13	-20.87	40	39.25	10.92	0.75	31.79	-	-	Peak
71.04	19.47	-20.53	40	43.8	6.5	0.94	31.77	-	-	Peak
606.6	22.52	-23.48	46	32.35	19.46	2.77	32.06	-	-	Peak
732.6	23.37	-22.63	46	32.36	20.02	2.99	32	-	-	Peak
872.6	24.74	-21.26	46	32.19	20.9	3.29	31.64	-	-	Peak

ANTENNA POLARITY : VERTICAL										
Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5512	85.63	-	-	73.85	34.8	10.96	33.98	101	77	Average
5512	95.08	-	-	83.3	34.8	10.96	33.98	101	77	Peak
11020	43.97	-30.03	74	54.68	37.61	10.76	59.08	100	0	Peak
16530	44.81	-29.19	74	50.83	41.03	11.83	58.88	100	0	Peak
Other harmonics are lower than background noise										

Test Mode :	802.11n HT40	**Temperature :**	24~25℃
Test Channel :	110	**Relative Humidity :**	46~47%
Test Engineer :	Gavin Wu		
Remark :	1. 5548 MHz is fundamental signal which can be ignored. 2. 16650 MHz is not within a restricted band and satisfies both the average and peak limits of 15.209. 3. Average measurement was not performed if peak level went lower than the average limit. 4. The harmonic (4th ,5th , 6th,…etc.) and other spurious are not reported, because those levels are lower than average limit line and background noise		



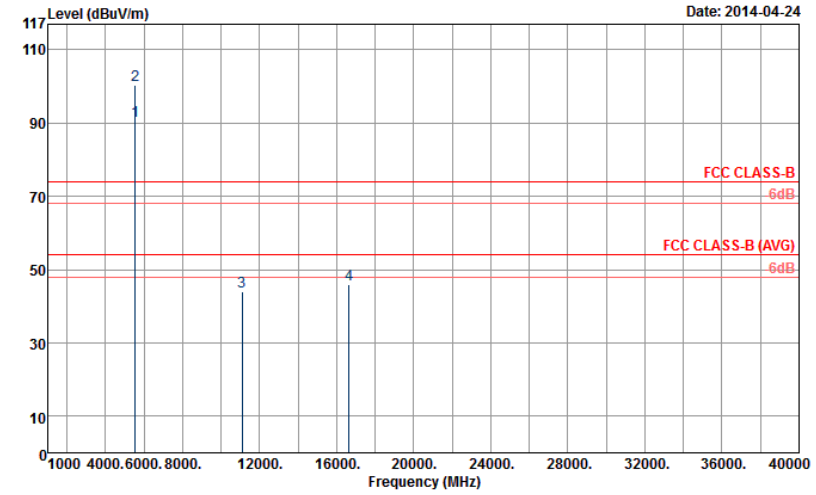
Site : 03CH06-HY
Condition : FCC CLASS-B 3m SHF-EHF HORN HORIZONTAL

ANTENNA POLARITY : HORIZONTAL

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5548	93.08	-	-	81.23	34.83	11	33.98	105	357	Average
5548	103.03	-	-	91.18	34.83	11	33.98	105	357	Peak
11100	45.04	-28.96	74	55.56	37.64	10.82	58.98	100	0	Peak
16650	45.4	-28.6	74	51.17	41.16	11.88	58.81	100	0	Peak

Other harmonics are lower than background noise

Test Mode :	802.11n HT40	**Temperature :**	24~25℃
Test Channel :	110	**Relative Humidity :**	46~47%
Test Engineer :	Gavin Wu		
Remark :	1. 5554 MHz is fundamental signal which can be ignored. 2. 16650 MHz is not within a restricted band and satisfies both the average and peak limits of 15.209. 3. Average measurement was not performed if peak level went lower than the average limit. 4. The harmonic (4th ,5th , 6th,…etc.) and other spurious are not reported, because those levels are lower than average limit line and background noise		



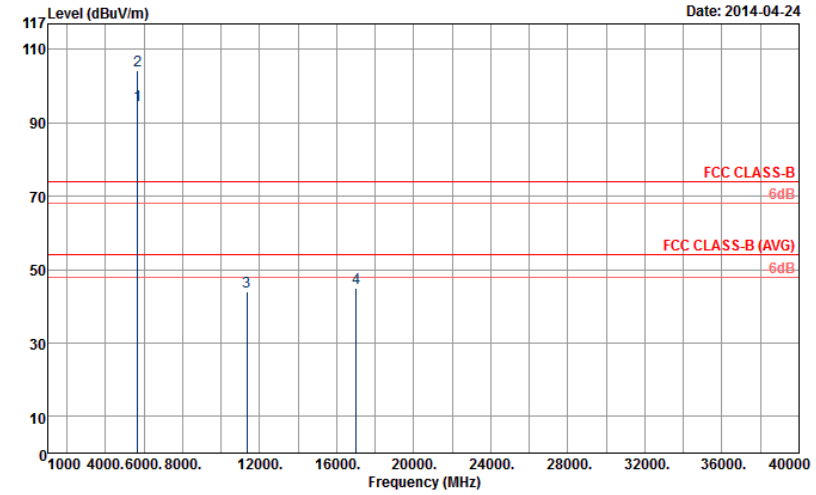
Site : 03CH06-HY
Condition : FCC CLASS-B 3m SHF-EHF HORN VERTICAL

ANTENNA POLARITY : VERTICAL

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5554	90.68	-	-	78.83	34.83	11	33.98	104	102	Average
5554	100.52	-	-	88.67	34.83	11	33.98	104	102	Peak
11100	44.07	-29.93	74	54.59	37.64	10.82	58.98	100	0	Peak
16650	46.09	-27.91	74	51.86	41.16	11.88	58.81	100	0	Peak

Other harmonics are lower than background noise

Test Mode :	802.11n HT40	**Temperature :**	24~25℃
Test Channel :	134	**Relative Humidity :**	46~47%
Test Engineer :	Gavin Wu		
Remark :	1. 5674 MHz is fundamental signal which can be ignored. 2. 17010 MHz is not within a restricted band and satisfies both the average and peak limits of 15.209. 3. Average measurement was not performed if peak level went lower than the average limit. 4. The harmonic (4th ,5th , 6th,…etc.) and other spurious are not reported, because those levels are lower than average limit line and background noise		

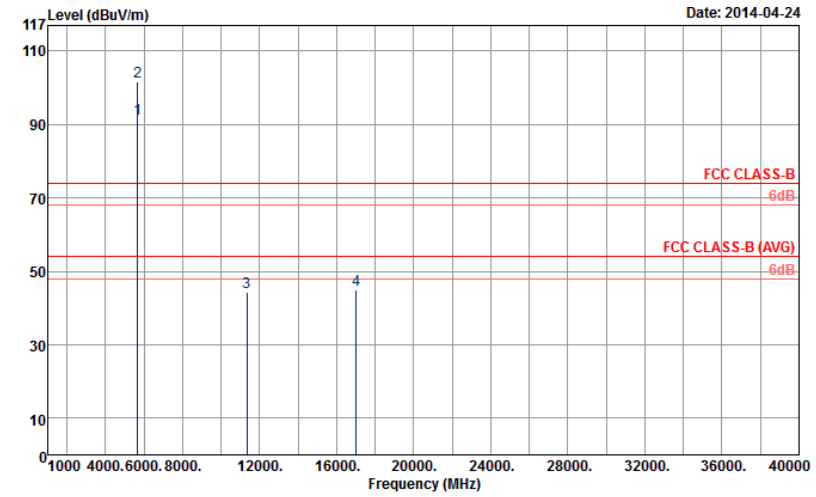


ANTENNA POLARITY : HORIZONTAL

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5674	94.84	-	-	82.6	34.97	11.26	33.99	101	298	Average
5674	104.43	-	-	92.19	34.97	11.26	33.99	101	298	Peak
11340	44.1	-29.9	74	54.11	37.73	10.96	58.7	100	0	Peak
17010	44.94	-29.06	74	50.07	41.47	12	58.6	100	0	Peak

Other harmonics are lower than background noise

Test Mode :	802.11n HT40	**Temperature :**	24~25℃
Test Channel :	134	**Relative Humidity :**	46~47%
Test Engineer :	Gavin Wu		
Remark :	1. 5668 MHz is fundamental signal which can be ignored. 2. 17010 MHz is not within a restricted band and satisfies both the average and peak limits of 15.209. 3. Average measurement was not performed if peak level went lower than the average limit. 4. The harmonic (4th ,5th , 6th,…etc.) and other spurious are not reported, because those levels are lower than average limit line and background noise		



ANTENNA POLARITY : VERTICAL

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
5668	91.46	-	-	79.26	34.97	11.22	33.99	101	98	Average
5668	101.76	-	-	89.56	34.97	11.22	33.99	101	98	Peak
11340	44.47	-29.53	74	54.48	37.73	10.96	58.7	100	0	Peak
17010	44.98	-29.02	74	50.11	41.47	12	58.6	100	0	Peak

Other harmonics are lower than background noise

3.6 AC Conducted Emission Measurement

3.6.1 Limit of AC Conducted Emission

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

Frequency of emission (MHz)	Conducted limit (dBμV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

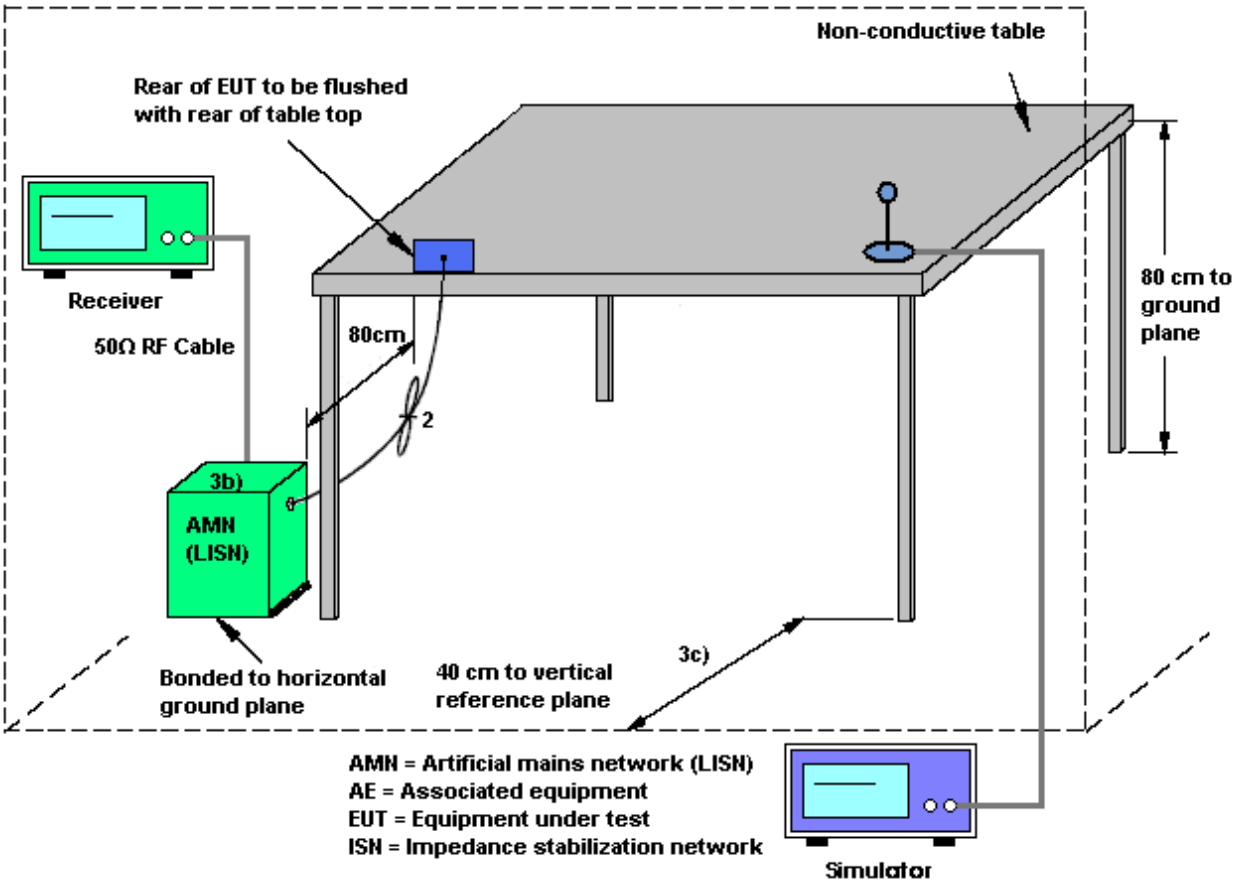
3.6.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.6.3 Test Procedures

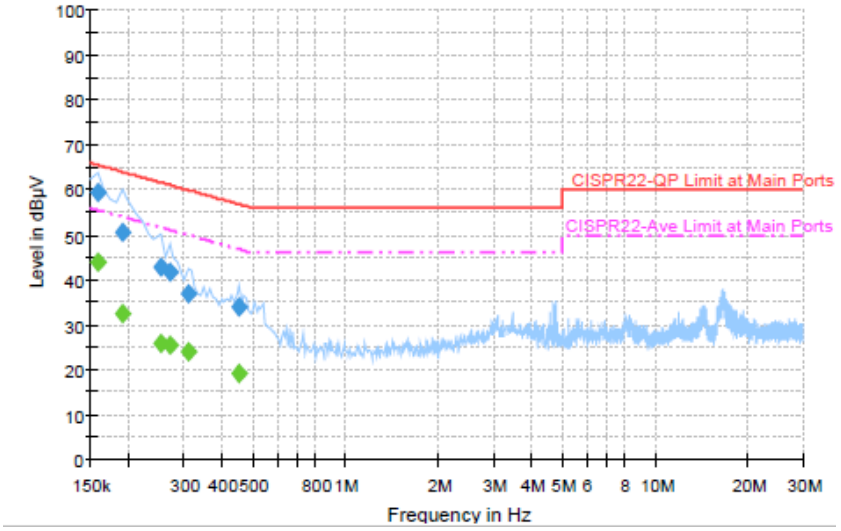
1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
5. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
6. Both sides of AC line were checked for maximum conducted interference.
7. The frequency range from 150 kHz to 30 MHz was searched.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode.

3.6.4 Test Setup



3.6.5 Test Result of AC Conducted Emission

Test Mode :	Mode 1	**Temperature :**	20~22℃
Test Engineer :	Cosmo Xu	**Relative Humidity :**	46~48%
Test Voltage :	120Vac / 60Hz	**Phase :**	Line
Function Type :	GSM1900 Idle + Bluetooth Link + WLAN (5GHz) Link + GPS Rx + Earphone + Battery + USB Cable (Data Link with Notebook)		



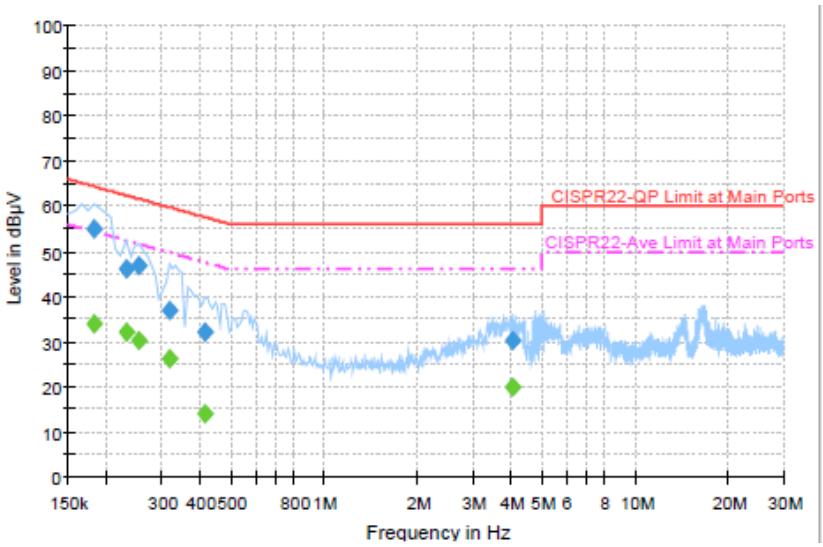
Final Result : QuasiPeak

Frequency (MHz)	QuasiPeak (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.158000	59.5	Off	L1	19.3	6.1	65.6
0.190000	50.5	Off	L1	19.4	13.5	64.0
0.254000	42.7	Off	L1	19.4	18.9	61.6
0.270000	41.6	Off	L1	19.3	19.5	61.1
0.310000	37.0	Off	L1	19.3	23.0	60.0
0.454000	34.0	Off	L1	19.3	22.8	56.8

Final Result : Average

Frequency (MHz)	Average (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.158000	44.0	Off	L1	19.3	11.6	55.6
0.190000	32.6	Off	L1	19.4	21.4	54.0
0.254000	25.8	Off	L1	19.4	25.8	51.6
0.270000	25.6	Off	L1	19.3	25.5	51.1
0.310000	24.1	Off	L1	19.3	25.9	50.0
0.454000	19.1	Off	L1	19.3	27.7	46.8

Test Mode :	Mode 1	**Temperature :**	20~22℃
Test Engineer :	Cosmo Xu	**Relative Humidity :**	46~48%
Test Voltage :	120Vac / 60Hz	**Phase :**	Neutral
Function Type :	GSM1900 Idle + Bluetooth Link + WLAN (5GHz) Link + GPS Rx + Earphone + Battery + USB Cable (Data Link with Notebook)		



Final Result : QuasiPeak

Frequency (MHz)	QuasiPeak (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.182000	54.9	Off	N	19.3	9.5	64.4
0.230000	46.0	Off	N	19.4	16.4	62.4
0.254000	46.8	Off	N	19.4	14.8	61.6
0.318000	36.8	Off	N	19.4	23.0	59.8
0.414000	32.1	Off	N	19.4	25.5	57.6
4.038000	30.4	Off	N	19.6	25.6	56.0

Final Result : Average

Frequency (MHz)	Average (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.182000	34.0	Off	N	19.3	20.4	54.4
0.230000	32.0	Off	N	19.4	20.4	52.4
0.254000	30.4	Off	N	19.4	21.2	51.6
0.318000	26.0	Off	N	19.4	23.8	49.8
0.414000	14.0	Off	N	19.4	33.6	47.6
4.038000	20.0	Off	N	19.6	26.0	46.0

3.7 Frequency Stability Measurement

3.7.1 Limit of Frequency Stability

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

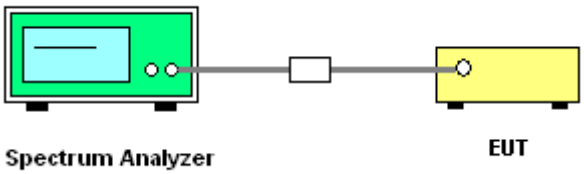
3.7.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.7.3 Test Procedures

1. To ensure emission at the band edge is maintained within the authorized band, those values shall be measured by radiation emissions at upper and lower frequency points, and finally compensated by frequency deviation as procedures below.
2. The EUT was operated at the maximum output power, and connected to the spectrum analyzer, which is set to maximum hold function and peak detector. The peak value of the power envelope was measured and noted. The upper and lower frequency points were respectively measured relatively 10dB lower than the measured peak value.
3. The frequency deviation was calculated by adding the upper frequency point and the lower frequency point divided by two. Those detailed values of frequency deviation are provided in table below.

3.7.4 Test Setup



3.7.5 Test Result of Frequency Stability

Test Band :	5GHz band 3	Test Engineer :	Kenny Chen

Mod.	Data Rate	NTX	Channel	Freq. (MHz)	Center Frequency (MHz)	Frequency Deviation (MHz)	Frequency Stability (ppm)	Temperature (˚C)	Voltage (V)
11a	6Mbps	1	100	5500	5500.050	0.050	9.09	20	3.2
11a	6Mbps	1	100	5500	5500.025	0.025	4.55	20	4.2
11a	6Mbps	1	100	5500	5500.050	0.050	9.09	20	3.7
11a	6Mbps	1	100	5500	5500.075	0.075	13.64	-20	3.7
11a	6Mbps	1	100	5500	5500.050	0.050	9.09	60	3.7

Note: Center Frequency = (Low Frequency + High Frequency) / 2.

3.8 Automatically Discontinue Transmission

3.8.1 Limit of Automatically Discontinue Transmission

The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signaling information or the use of repetitive codes used by certain digital technologies to complete frame or burst intervals. Applicants shall include in their application for equipment authorization to describe how this requirement is met.

3.8.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.8.3 Test Result of Automatically Discontinue Transmission

While the EUT is not transmitting any information, the EUT can automatically discontinue transmission and become standby mode for power saving. The EUT can detect the controlling signal of ACK message transmitting from remote device and verify whether it shall resend or discontinue transmission.

3.9 Antenna Requirements

3.9.1 Standard Applicable

According to FCC 47 CFR Section 15.407(a)(1)(2) ,if transmitting antenna directional gain is greater than 6 dBi, both the peak transmit power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

3.9.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.9.3 Antenna Gain

The antenna gain is less than 6 dBi. Therefore, it is not necessary to reduce maximum peak output power limit.

4 List of Measuring Equipments

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	Rohde & Schwarz	FSP40	100055	9kHz~40GHz	Jun. 07, 2013	Apr. 12, 2014~ Jun. 04, 2014	Jun. 06, 2014	Conducted (TH02-HY)
Signal Analyzer	Rohde & Schwarz	FSQ	200578/026	20Hz~26.5GHz	Feb. 11, 2014	Apr. 12, 2014~ Jun. 04, 2014	Feb. 10, 2015	Conducted (TH02-HY)
Power Meter	Anritsu	ML2495A	1036004	300MHz~40GHz	Aug. 17, 2013	Apr. 12, 2014~ Jun. 04, 2014	Aug. 16, 2014	Conducted (TH02-HY)
Power Sensor	Anritsu	MA2411B	1027253	300MHz~40GHz	Aug. 17, 2013	Apr. 12, 2014~ Jun. 04, 2014	Aug. 16, 2014	Conducted (TH02-HY)
Hygrometer	Testo	608-H1	34897199	N/A	May 07, 2013	Apr. 12, 2014~ Apr. 23, 2014	May 06, 2014	Conducted (TH02-HY)
Hygrometer	Testo	608-H1	34897199	N/A	May 06, 2014	May 16, 2014~ Jun. 04, 2014	May 05, 2015	Conducted (TH02-HY)
RF cable	WOKEN	SMA(M)-SMA(M) for SS405 Cable Assembly	S05-130703-32	N/A	Jul. 09, 2013	Apr. 16, 2014~ Jun. 04, 2014	Jul. 08, 2014	Conducted (TH02-HY)
Spectrum Analyzer	R&S	FSP30	101067	9kHz ~ 30GHz	Nov. 20, 2013	Apr. 23, 2014~ Apr. 24, 2014	Nov. 19, 2014	Radiation (03CH06-HY)
Spectrum Analyzer	Agilent	E4408B	MY44211030	9kHz ~ 26.5GHz	Dec. 02, 2013	Apr. 23, 2014~ Apr. 24, 2014	Dec. 01, 2014	Radiation (03CH06-HY)
EMI Test Receiver	R&S	ESVS10	834468/0003	20MHz ~ 1000MHz	May 06, 2013	Apr. 23, 2014~ Apr. 24, 2014	May 05, 2014	Radiation (03CH06-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	860004/0001	9kHz ~ 30MhZ	Jul. 03, 2012	Apr. 23, 2014~ Apr. 24, 2014	Jul. 02, 2014	Radiation (03CH06-HY)
Bilog Antenna	Schaffner	CBL6112B	2885	30MHz ~ 2GHz	Oct. 10, 2013	Apr. 23, 2014~ Apr. 24, 2014	Oct. 09, 2014	Radiation (03CH06-HY)
Double Ridge Horn Antenna	EMCO	3117	00066583	1GHz ~ 18GHz	Aug. 02, 2013	Apr. 23, 2014~ Apr. 24, 2014	Aug. 01, 2014	Radiation (03CH06-HY)
Amplifier	Agilent	310N	186713	9kHz ~ 1GHz	Apr. 16, 2014	Apr. 23, 2014~ Apr. 24, 2014	Apr. 15, 2015	Radiation (03CH06-HY)
Pre Amplifier	EMCI	EMC051845	SN980048	1GHz ~ 18GHz	Jul. 18, 2013	Apr. 23, 2014~ Apr. 24, 2014	Jul. 17, 2014	Radiation (03CH06-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170251	15GHz ~ 40GHz	Oct. 03, 2013	Apr. 23, 2014~ Apr. 24, 2014	Oct. 02, 2014	Radiation (03CH06-HY)
Preamplifier	Agilent	8449B	3008A01917	1GHz ~ 26.5GHz	Apr. 10, 2014	Apr. 23, 2014~ Apr. 24, 2014	Apr. 09, 2015	Radiation (03CH06-HY)
Amplifier	EM	EM18G40G	060604	18GHz ~ 40GHz	Oct. 17, 2013	Apr. 23, 2014~ Apr. 24, 2014	Oct. 16, 2014	Radiation (03CH06-HY)
Turn Table	INN-CO	DS2000	420/650/00	0 ~ 360 degree	N/A	Apr. 23, 2014~ Apr. 24, 2014	N/A	Radiation (03CH06-HY)
Antenna Mast	MF	MF-7802	MF780208212	1 m ~ 4 m	N/A	Apr. 23, 2014~ Apr. 24, 2014	N/A	Radiation (03CH06-HY)
LF RF Cable	warison	WCBA-WC04 NM.NM2	N/A	30MHz~1GHz	Nov. 28, 2013	Apr. 23, 2014~ Apr. 24, 2014	Nov. 27, 2014	Radiation (03CH06-HY)
HF RF Cable	Huber + Suhner	sucoflex 104	286027/4	1GHz~26.5GHz	Nov. 28, 2013	Apr. 23, 2014~ Apr. 24, 2014	Nov. 27, 2014	Radiation (03CH06-HY)

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
High Pass Filter	Microwave Circuits	H07G18G3	282388	7G HPF	Nov. 28, 2013	Apr. 23, 2014~ Apr. 24, 2014	Nov. 27, 2014	Radiation (03CH06-HY)
Low Pass Filter	Wainwright	WLKS1500-8SS	SN51	1.5G LPF	Nov. 28, 2013	Apr. 23, 2014~ Apr. 24, 2014	Nov. 27, 2014	Radiation (03CH06-HY)
Hygrometer	WISEWIND	410	BU5004	N/A	May 07, 2013	Apr. 23, 2014~ Apr. 24, 2014	May 06, 2014	Radiation (03CH06-HY)
Test Software	Audix	E3	Version 6.2009-8-24	N/A	N/A	Apr. 23, 2014~ Apr. 24, 2014	N/A	Radiation (03CH06-HY)
EMI Test Receiver	Rohde & Schwarz	ESCS 30	100356	9kHz ~ 2.75GHz	Nov. 15, 2013	Apr. 12, 2014	Nov. 14, 2014	Conduction (CO05-HY)
LISN (for auxiliary equipment)	Rohde & Schwarz	ENV216	100081	9kHz ~ 30MHz	Dec. 12, 2013	Apr. 12, 2014	Dec. 11, 2014	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100080	9kHz ~ 30MHz	Dec. 04, 2013	Apr. 12, 2014	Dec. 03, 2014	Conduction (CO05-HY)
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Apr. 12, 2014	N/A	Conduction (CO05-HY)
Test Software	N/A	EMC32	8.40.0	N/A	N/A	Apr. 12, 2014	N/A	Conduction (CO05-HY)
Hygrometer	Testo	608-H1	34913912	N/A	Apr. 25, 2013,	Apr. 12, 2014	Apr. 24, 2014	Conduction (CO05-HY)
LF Cable	Shuner	RG-402	N/A	N/A	Oct. 17, 2013	Apr. 12, 2014	Oct. 16, 2014	Conduction (CO05-HY)

Note: Test equipment calibration is traceable to the procedure of ISO17025.

5 Uncertainty of Evaluation

Uncertainty of Conducted Emission Measurement (150kHz ~ 30MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.26

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	4.50