FCC/IC RF Test Report

APPLICANT	:	**Sony Mobile Communications AB**
EQUIPMENT	:	**Smart phone**
BRAND NAME	:	**SONY**
MODEL NAME	:	**D2306**
TYPE NAME	:	**PM-0723-BV**
FCC ID	:	**PY7PM-0723**
IC	:	**4170B-PM0723**
STANDARD	:	**FCC Part 15 Subpart E §15.407** **IC RSS-210 issue 8**
CLASSIFICATION	:	**(NII) Unlicensed National Information Infrastructure**

The product was received on Nov. 15, 2013 and testing was completed on Feb. 14, 2014. We, SPORTON INTERNATIONAL INC., would like to declare that the tested sample has been evaluated in accordance with the procedures and shown to be compliant 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.

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR3N1535E	Rev. 01	Initial issue of report	Jan. 24, 2014
FR3N1535E	Rev. 02	Update report for adding 20dB occupied bandwidth data in section 3.1.6	Feb. 17, 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 0.32 dB at 5350.330 MHz
3.6	15.207	RSS-Gen 7.2.4	AC Conducted Emission	15.207(a)	Pass	Under limit 8.70 dB at 0.190 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, GPS, and NFC features, and below is details of information.

General Information of Equipment Under Test	
Equipment	Smart phone
Brand Name	SONY
Model Name	D2306
Type Name	PM-0723-BV
FCC ID	PY7PM-0723
IC	4170B-PM0723
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 IV / VII / XVII
Wi-Fi Specification	802.11b/g/n (HT20), 802.11a/n (HT20/HT40)
Bluetooth Version	v3.0+EDR / v4.0-LE
NFC Specification	ISO14443A / ISO14443B / Felica
Power Supply	Battery / AC Adapter / Car Charger

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 : 13.90 dBm / 0.0245 W 802.11n HT20 : 13.93 dBm / 0.0247 W 802.11n HT40 : 13.80 dBm / 0.0240 W **<5260 MHz ~ 5320 MHz>** 802.11a : 13.98 dBm / 0.0250 W 802.11n HT20 : 13.96 dBm / 0.0249 W 802.11n HT40 : 13.87 dBm / 0.0244 W **<5500 MHz ~ 5580 MHz and 5660 MHz ~ 5700 MHz>** 802.11a : 13.86 dBm / 0.0243 W 802.11n HT20 : 13.88 dBm / 0.0244 W 802.11n HT40 : 13.99 dBm / 0.0251 W
99% Occupied Bandwidth	802.11a : 18.55 MHz 802.11n HT20 : 19.35 MHz 802.11n HT40 : 36.90 MHz
Antenna Type	**<5180 MHz ~ 5240 MHz>** PIFA Antenna with gain -1.50 dBi **<5260 MHz ~ 5320 MHz>** PIFA Antenna with gain -1.40 dBi **<5500 MHz ~ 5580 MHz and 5660 MHz ~ 5700 MHz>** PIFA Antenna with gain -1.20 dBi
Type of Modulation	OFDM (BPSK / QPSK / 16QAM / 64QAM)
EUT #1	IMEI : 004402451442879 S/N : ZH8001NA38
EUT #2	IMEI : 004402451650869 S/N : 468191348BB
EUT #3	IMEI : 004402451443497 S/N : ZH8001NA4U
HW Version	A
SW Version	18.0.C.0.30
EUT Stage	Production Unit

Accessory List	
AC Adapter	Model No. : EP800
	Type No. : CAA-0002016-US B
Battery	Model No. : LIS1502ERPC
	Type No. : LIS1502ERPC
Earphone	Model No. : MH410c
	Type No. : AG-1100
USB Cable	Model No. : AHAB EC450
	Part No. : 1242-6715.4

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 Site

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.**			**FCC/IC Registration No.**
	TH02-HY	CO05-HY	03CH06-HY	722060/4086B-1

Note: The test site complies with ANSI C63.4 2003 requirement.

1.7 Applied 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-2)	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-2ext)	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.

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)	13.98	13.96	13.94	13.97	13.73	13.70	13.68	13.67

5GHz 802.11n HT20 mode								
Data Rate (MHz)	MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
Average Power dBm)	13.96	13.72	13.70	13.69	13.67	13.66	13.78	13.77

5GHz 802.11n HT40 mode								
Data Rate (MHz)	MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
Average Power (dBm)	13.99	13.98	13.67	13.64	13.69	13.68	13.67	13.63

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**	**100**
		802.11n HT20	**MCS0**	**100**
		802.11n HT40	**MCS0**	**102**
	Frequency Stability	**802.11a**	**6 Mbps**	**L/H**
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 Idle + GPS Rx + Earphone + Battery + USB Cable (Data Link with Notebook) Mode 2 : GSM1900 Idle + Bluetooth Idle + WLAN (5GHz) Link + GPS Rx + Earphone + Battery + USB Cable (Data Link with Notebook)			

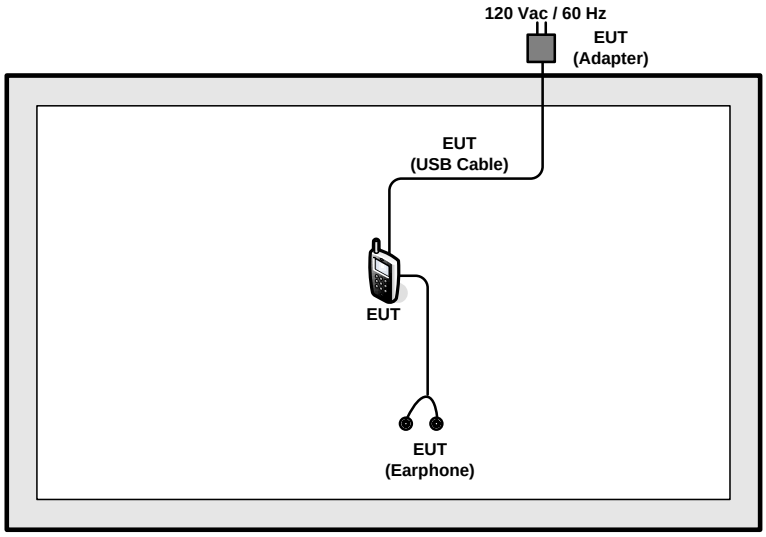
Ch. #		Band I：5150-5250 MHz	Band II：5250-5350 MHz	Band III：5470-5600 MHz and 5650-5725MHz
		802.11a	802.11a	802.11a
L	Low	36	52	100
M	Middle	44	60	116
H	High	48	64	140

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

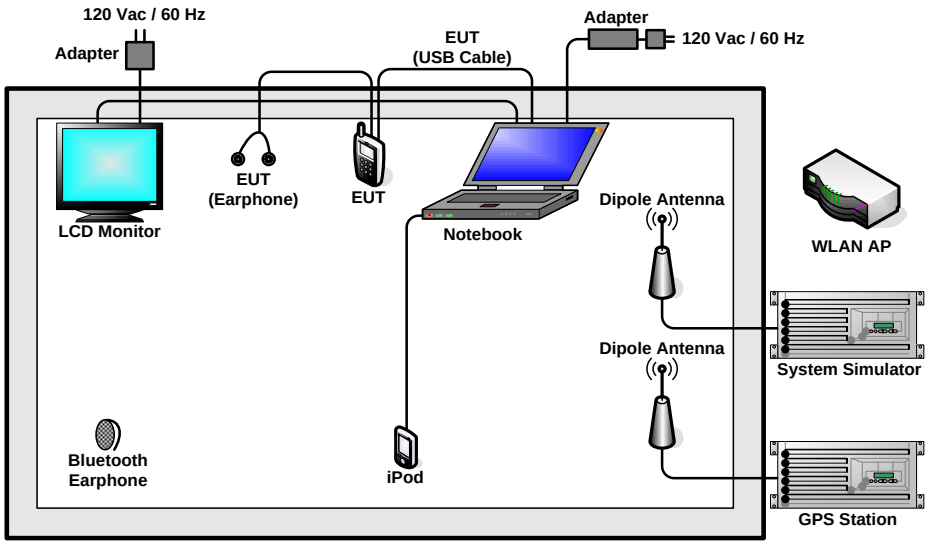
Ch. #		Band I：5150-5250 MHz	Band II：5250-5350 MHz	Band III：5470-5600 MHz and 5650-5725MHz
		802.11n HT40	802.11n HT40	802.11n HT40
L	Low	38	54	102
M	Middle	-	-	110
H	High	46	62	134

2.4 Connection Diagram of Test System

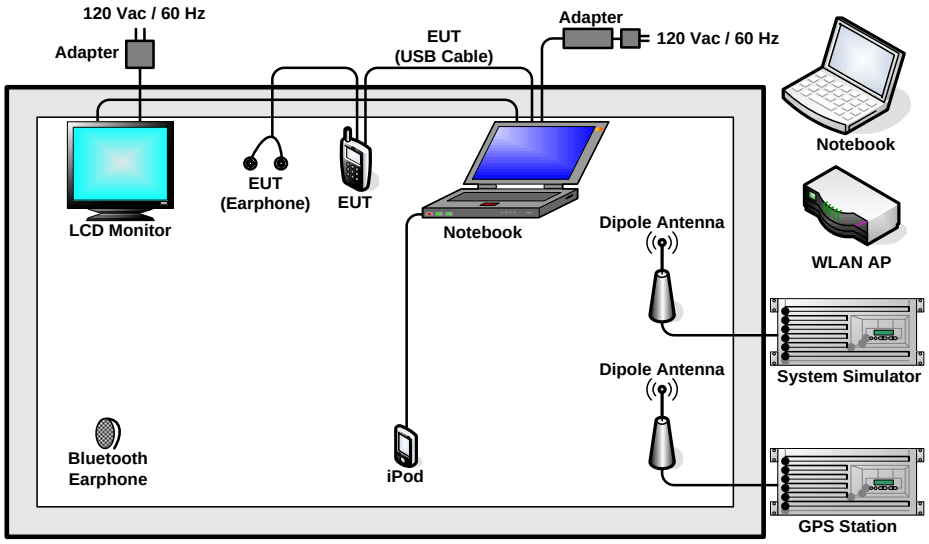
<WLAN Tx Mode>



<AC Conducted Emission Mode in WLAN Idle>



<AC Conducted Emission Mode in WLAN Link>



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.	GPS Station	Pendulum	GSG-54	N/A	N/A	Unshielded, 1.8 m
3.	WLAN AP	D-Link	DIR-628	KA2DIR628A2	N/A	Unshielded, 1.8 m
4.	Notebook	DELL	Latitude E6320	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
5.	LCD Monitor	DELL	U2410	FCC DoC	Shielded, 1.6 m	Unshielded, 1.8 m
6.	iPod	Apple	A1285	FCC DoC	Shielded, 1.0 m	N/A
7.	SD Card	SanDisk	MicroSD HC	FCC DoC	N/A	N/A

2.6 EUT Operation Test Setup

For WLAN RF test items, an engineering test program was provided and enabled to make EUT continuous transmit/receive.

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, 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.

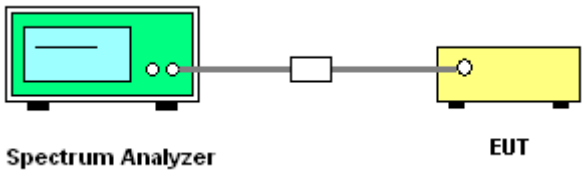
3.1.2 Measuring Instruments

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 :	Osolemio Chang	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	18.20	22.75	22.60	16.99
11a	6Mbps	1	44	5220	18.30	22.35	22.62	16.99
11a	6Mbps	1	48	5240	18.30	22.65	22.62	16.99
HT20	MCS0	1	36	5180	19.00	22.85	22.79	16.99
HT20	MCS0	1	44	5220	19.15	22.90	22.82	16.99
HT20	MCS0	1	48	5240	19.10	22.80	22.81	16.99
HT40	MCS0	1	38	5190	36.72	45.27	23.01	16.99
HT40	MCS0	1	46	5230	36.63	47.25	23.01	16.99

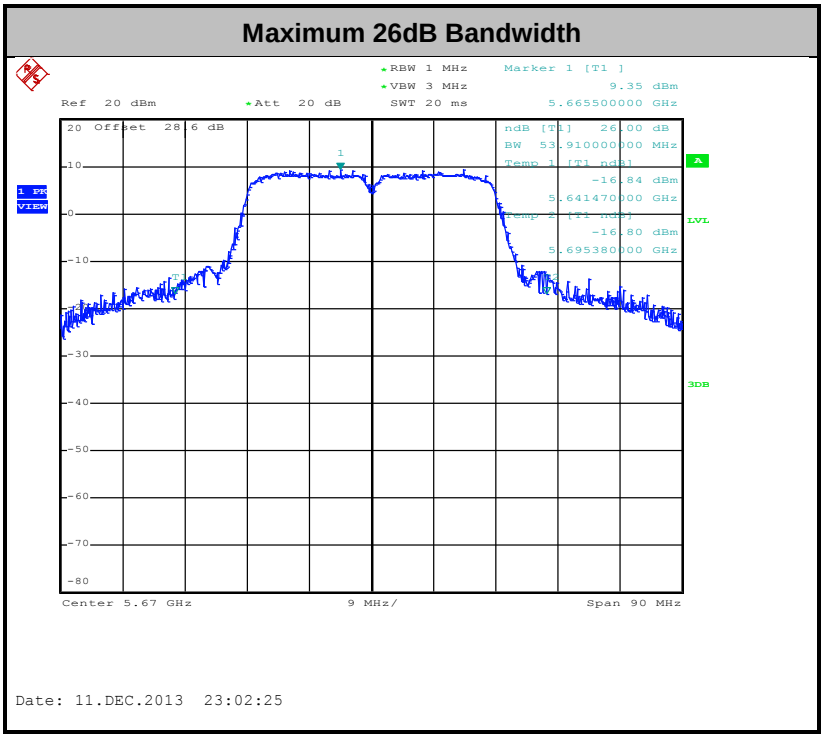
Test Band :	5GHz band 2	Temperature :	21~26℃
Test Engineer :	Osolemio Chang	Relative Humidity :	45~54%

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	18.30	22.90	29.62	23.98
11a	6Mbps	1	60	5300	18.35	22.65	29.64	23.98
11a	6Mbps	1	64	5320	18.25	22.60	29.61	23.98
HT20	MCS0	1	52	5260	19.35	23.05	29.87	23.98
HT20	MCS0	1	60	5300	19.25	22.80	29.84	23.98
HT20	MCS0	1	64	5320	19.10	22.75	29.81	23.98
HT40	MCS0	1	54	5270	36.72	49.50	30.00	23.98
HT40	MCS0	1	62	5310	36.63	44.91	30.00	23.98

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

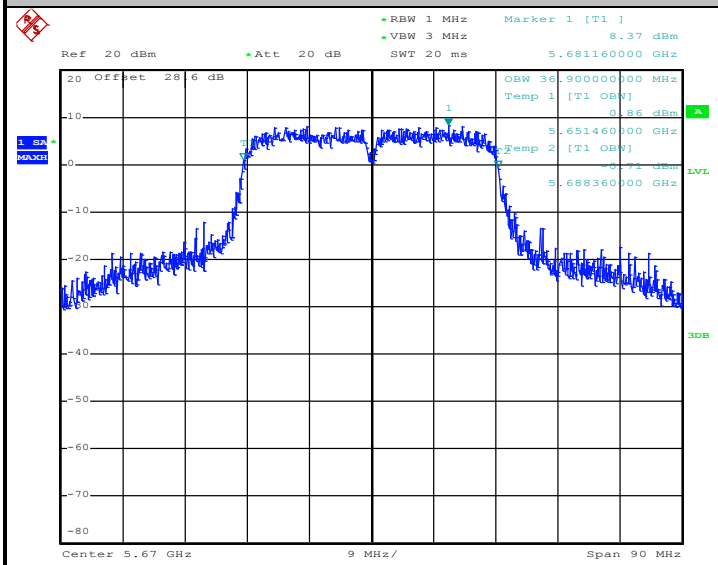
Mod.	Data Rate	N_{TX}	Channel	Freq. (MHz)	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	IC 99% Bandwidth EIRP Limit (dBm)	FCC 26dB Bandwidth Power Limit (dBm)
11a	6Mbps	1	100	5500	18.25	22.60	29.61	23.98
11a	6Mbps	1	116	5580	18.55	23.50	29.68	23.98
11a	6Mbps	1	140	5700	18.50	23.00	29.67	23.98
HT20	MCS0	1	100	5500	19.15	23.05	29.82	23.98
HT20	MCS0	1	116	5580	19.30	23.85	29.86	23.98
HT20	MCS0	1	140	5700	19.15	22.90	29.82	23.98
HT40	MCS0	1	102	5510	36.45	44.91	30.00	23.98
HT40	MCS0	1	110	5550	36.72	48.24	30.00	23.98
HT40	MCS0	1	134	5670	36.90	53.91	30.00	23.98

Maximum 26dB Bandwidth



Note: The total loss is 28.6 dB of the RF cable and attenuator, and has been compensated to the spectrum analyzer offset.

Maximum 99% Occupied Bandwidth



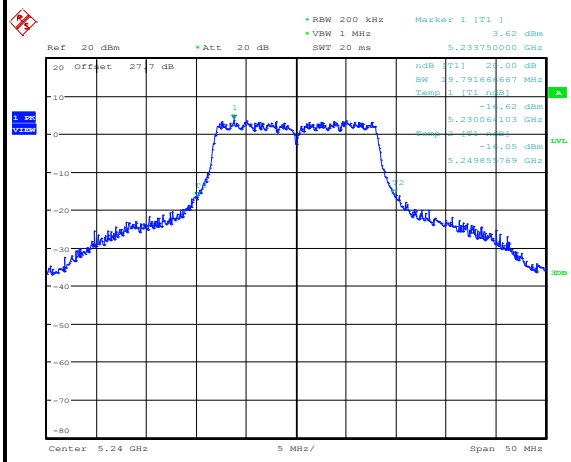
Note: The total loss is 28.6 dB of the RF cable and attenuator, and has been compensated to the spectrum analyzer offset.

3.1.6 Test Result of 20dB Occupied Bandwidth

Mod.	Data Rate	NTX	Channel	Freq. (MHz)	20dB Bandwidth (MHz)	20dB Bandwidth Frequency (MHz)	Limit Line (MHz)	Pass/Fail
11a	6Mbps	1	48	5240	19.79	5249.86	<5250	Pass
HT20	MCS0	1	48	5240	19.47	5249.86		Pass
HT40	MCS0	1	46	5230	39.34	5249.79		Pass
11a	6Mbps	1	52	5260	19.71	5250.14	>5250	Pass
HT20	MCS0	1	52	5260	19.71	5250.06		Pass
HT40	MCS0	1	54	5270	39.58	5250.21		Pass
11a	6Mbps	1	132	5660	19.55	5650.14	>5650	Pass
HT20	MCS0	1	132	5660	19.95	5650.06		Pass
HT40	MCS0	1	134	5670	39.26	5650.13		Pass

20dB Occupied Bandwidth

802.11a CH48 5240MHz



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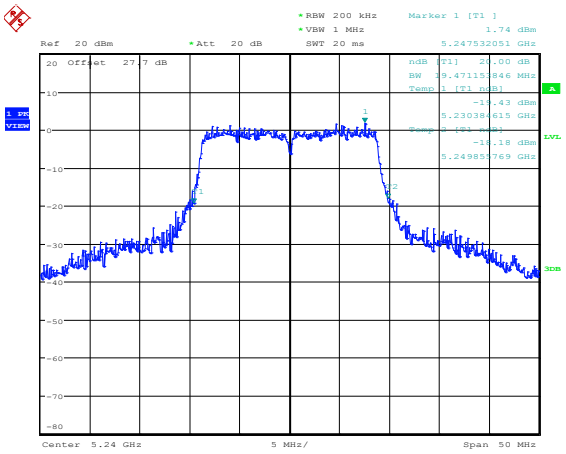
802.11n HT20 CH48 5240MHz



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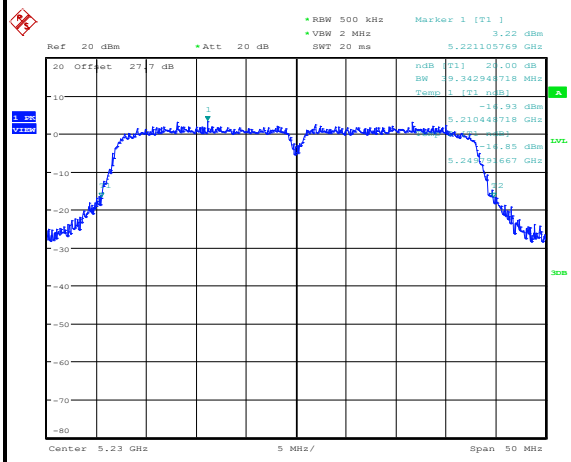
802.11n HT40 CH46 5230MHz



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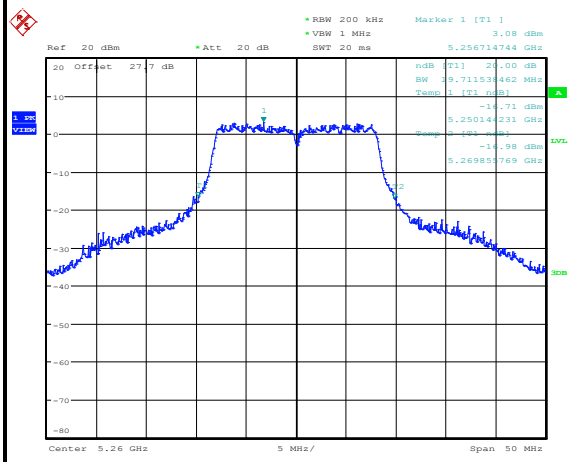
20dB Occupied Bandwidth

802.11a CH52 5260MHz



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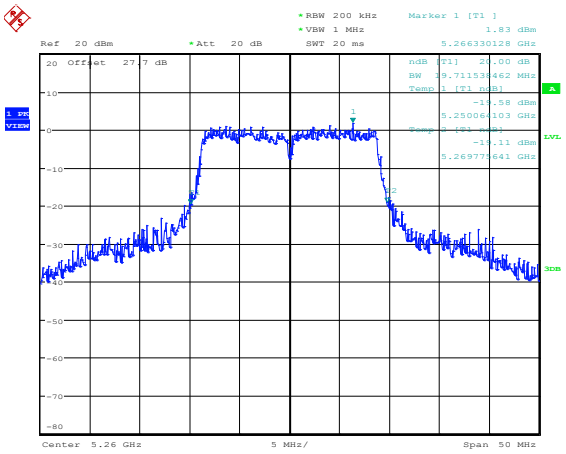
802.11n HT20 CH52 5260MHz



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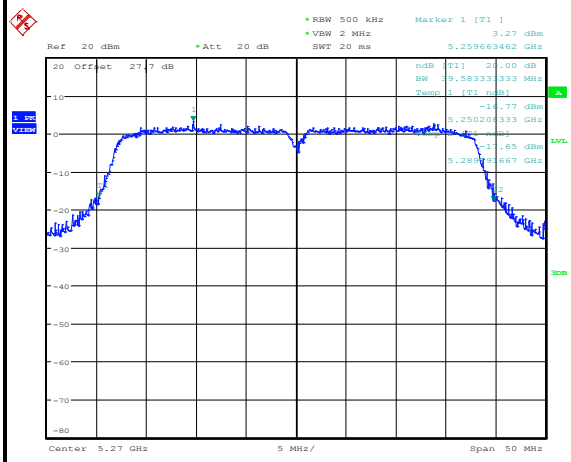
802.11n HT40 CH54 5270MHz



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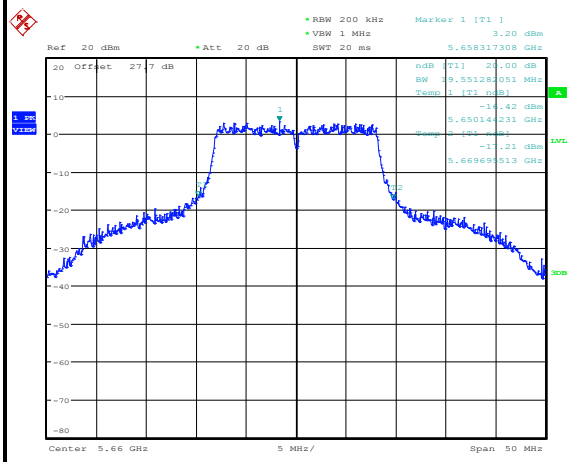
20dB Occupied Bandwidth

802.11a CH132 5660MHz



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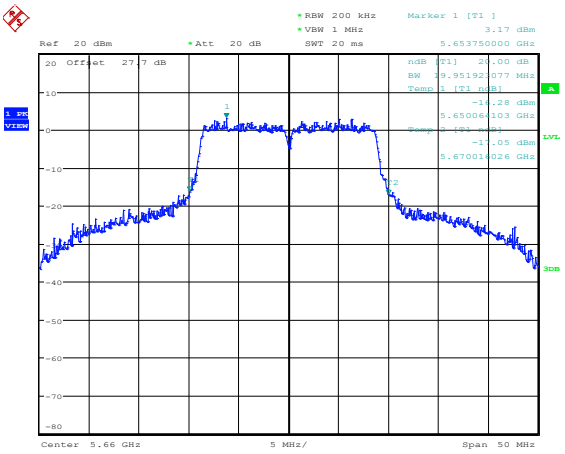
802.11n HT20 CH132 5660MHz



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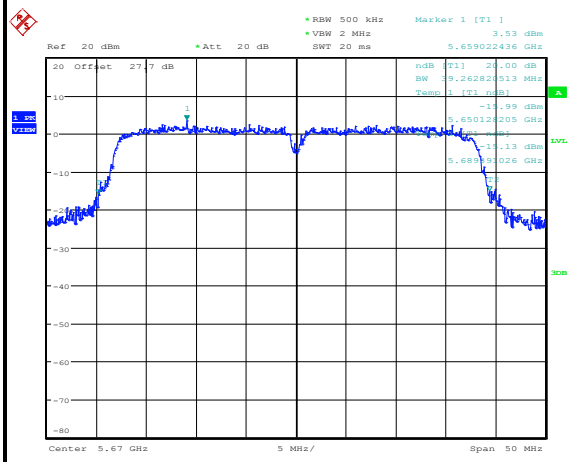
802.11n HT40 CH134 5670MHz



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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, 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.

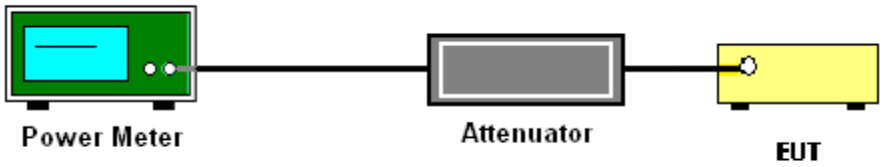
3.2.3 Test Procedures

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 :	Osolemio Chang	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	13.90	16.99	-1.50	-	Pass
11a	6Mbps	1	44	5220	0.59	13.76	16.99	-1.50		Pass
11a	6Mbps	1	48	5240	0.59	13.86	16.99	-1.50		Pass
HT20	MCS0	1	36	5180	0.63	13.93	16.99	-1.50		Pass
HT20	MCS0	1	44	5220	0.63	13.70	16.99	-1.50		Pass
HT20	MCS0	1	48	5240	0.63	13.80	16.99	-1.50		Pass
HT40	MCS0	1	38	5190	1.18	13.80	16.99	-1.50		Pass
HT40	MCS0	1	46	5230	1.18	13.71	16.99	-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	36	5180	0.59	13.90	24.10	-1.50	22.60	Pass
11a	6Mbps	1	44	5220	0.59	13.76	24.12	-1.50	22.62	Pass
11a	6Mbps	1	48	5240	0.59	13.86	24.12	-1.50	22.62	Pass
HT20	MCS0	1	36	5180	0.63	13.93	24.29	-1.50	22.79	Pass
HT20	MCS0	1	44	5220	0.63	13.70	24.32	-1.50	22.82	Pass
HT20	MCS0	1	48	5240	0.63	13.80	24.31	-1.50	22.81	Pass
HT40	MCS0	1	38	5190	1.18	13.80	24.51	-1.50	23.01	Pass
HT40	MCS0	1	46	5230	1.18	13.71	24.51	-1.50	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 :	Osolemio Chang	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	13.88	23.98	-1.40	-	Pass
11a	6Mbps	1	60	5300	0.59	13.98	23.98	-1.40		Pass
11a	6Mbps	1	64	5320	0.59	13.86	23.98	-1.40		Pass
HT20	MCS0	1	52	5260	0.63	13.85	23.98	-1.40		Pass
HT20	MCS0	1	60	5300	0.63	13.96	23.98	-1.40		Pass
HT20	MCS0	1	64	5320	0.63	13.76	23.98	-1.40		Pass
HT40	MCS0	1	54	5270	1.18	13.87	23.98	-1.40		Pass
HT40	MCS0	1	62	5310	1.18	10.73	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	52	5260	0.59	13.88	23.62	-1.40	29.62	Pass
11a	6Mbps	1	60	5300	0.59	13.98	23.64	-1.40	29.64	Pass
11a	6Mbps	1	64	5320	0.59	13.86	23.61	-1.40	29.61	Pass
HT20	MCS0	1	52	5260	0.63	13.85	23.87	-1.40	29.87	Pass
HT20	MCS0	1	60	5300	0.63	13.96	23.84	-1.40	29.84	Pass
HT20	MCS0	1	64	5320	0.63	13.76	23.81	-1.40	29.81	Pass
HT40	MCS0	1	54	5270	1.18	13.87	23.98	-1.40	30.00	Pass
HT40	MCS0	1	62	5310	1.18	10.73	23.98	-1.40	30.00	Pass

Note:

1. Final Output Power equals to Measured Output Power adds the duty factor.
2. For the band 5250-5350 MHz, 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 :	Osolemio Chang	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	13.64	23.98	-1.20		Pass
11a	6Mbps	1	116	5580	0.59	13.67	23.98	-1.20		Pass
11a	6Mbps	1	140	5700	0.59	13.86	23.98	-1.20		Pass
HT20	MCS0	1	100	5500	0.63	13.66	23.98	-1.20		Pass
HT20	MCS0	1	116	5580	0.63	13.78	23.98	-1.20	-	Pass
HT20	MCS0	1	140	5700	0.63	13.88	23.98	-1.20		Pass
HT40	MCS0	1	102	5510	1.18	10.12	23.98	-1.20		Pass
HT40	MCS0	1	110	5550	1.18	13.84	23.98	-1.20		Pass
HT40	MCS0	1	134	5670	1.18	13.99	23.98	-1.20		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	13.64	23.61	-1.20	29.61	Pass
11a	6Mbps	1	116	5580	0.59	13.67	23.68	-1.20	29.68	Pass
11a	6Mbps	1	140	5700	0.59	13.86	23.67	-1.20	29.67	Pass
HT20	MCS0	1	100	5500	0.63	13.66	23.82	-1.20	29.82	Pass
HT20	MCS0	1	116	5580	0.63	13.78	23.86	-1.20	29.86	Pass
HT20	MCS0	1	140	5700	0.63	13.88	23.82	-1.20	29.82	Pass
HT40	MCS0	1	102	5510	1.18	10.12	23.98	-1.20	30.00	Pass
HT40	MCS0	1	110	5550	1.18	13.84	23.98	-1.20	30.00	Pass
HT40	MCS0	1	134	5670	1.18	13.99	23.98	-1.20	30.00	Pass

Note:

1. Final Output Power equals to Measured Output Power adds the duty factor.
2. For the 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, 5470-5600, and 5650-5725 MHz, the peak power spectral density shall not exceed 11 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).

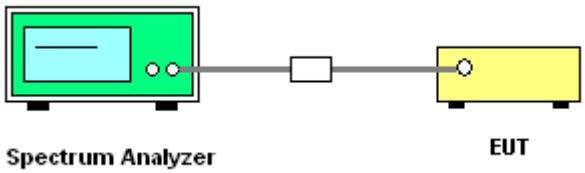
Note: Though the rule refers to “peak power spectral density”, the intent is to measure the maximum value of the time average of the power spectral density measured during a period of continuous transmission.

 # 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 :	Osolemio Chang	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	3.05	4.00	-1.50	10	Pass
11a	6Mbps	1	44	5220	0.59	3.35	4.00	-1.50	10	Pass
11a	6Mbps	1	48	5240	0.59	3.26	4.00	-1.50	10	Pass
HT20	MCS0	1	36	5180	0.63	3.01	4.00	-1.50	10	Pass
HT20	MCS0	1	44	5220	0.63	3.02	4.00	-1.50	10	Pass
HT20	MCS0	1	48	5240	0.63	2.50	4.00	-1.50	10	Pass
HT40	MCS0	1	38	5190	1.18	-5.13	4.00	-1.50	10	Pass
HT40	MCS0	1	46	5230	1.18	0.40	4.00	-1.50	10	Pass

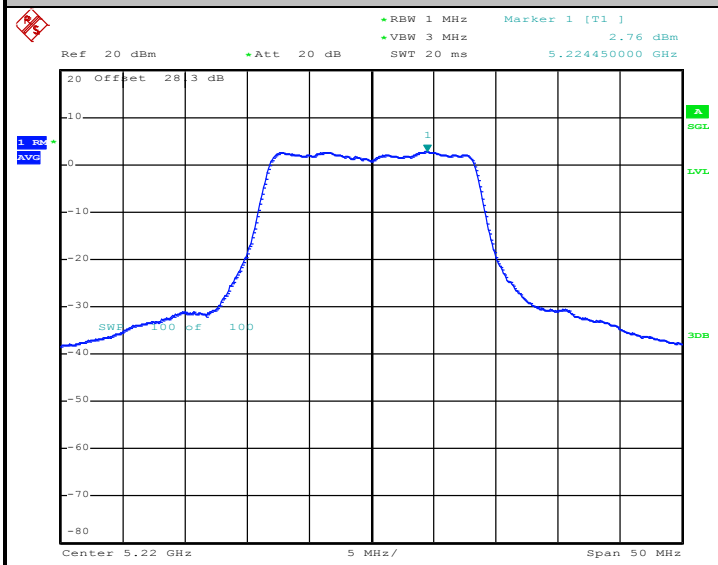
Test Band :	5GHz band 2	Temperature :	21~26℃
Test Engineer :	Osolemio Chang	Relative Humidity :	45~54%

Mod.	Data Rate	N_{TX}	Channel	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	3.31	11.00	-1.40	Pass
11a	6Mbps	1	60	5300	0.59	3.09	11.00	-1.40	Pass
11a	6Mbps	1	64	5320	0.59	3.09	11.00	-1.40	Pass
HT20	MCS0	1	52	5260	0.63	3.11	11.00	-1.40	Pass
HT20	MCS0	1	60	5300	0.63	2.83	11.00	-1.40	Pass
HT20	MCS0	1	64	5320	0.63	2.47	11.00	-1.40	Pass
HT40	MCS0	1	54	5270	1.18	0.54	11.00	-1.40	Pass
HT40	MCS0	1	62	5310	1.18	-4.74	11.00	-1.40	Pass

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

Mod.	Data Rate	N_{TX}	Channel	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	3.09	11.00	-1.20	Pass
11a	6Mbps	1	116	5580	0.59	3.03	11.00	-1.20	Pass
11a	6Mbps	1	140	5700	0.59	3.18	11.00	-1.20	Pass
HT20	MCS0	1	100	5500	0.63	2.81	11.00	-1.20	Pass
HT20	MCS0	1	116	5580	0.63	3.02	11.00	-1.20	Pass
HT20	MCS0	1	140	5700	0.63	2.01	11.00	-1.20	Pass
HT40	MCS0	1	102	5510	1.18	-4.06	11.00	-1.20	Pass
HT40	MCS0	1	110	5550	1.18	0.39	11.00	-1.20	Pass
HT40	MCS0	1	134	5670	1.18	0.42	11.00	-1.20	Pass

Worst Case Power Spectral Density(dBm/MHz)



Note:

1. Average Power Density (dB) = Measured value+ Duty Factor
2. The total loss is 28.3 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.

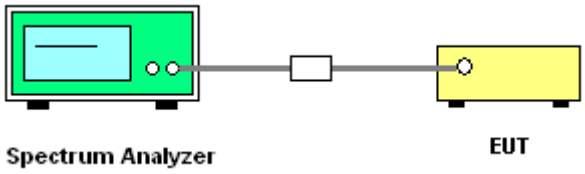
3.4.3 Test Procedures

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



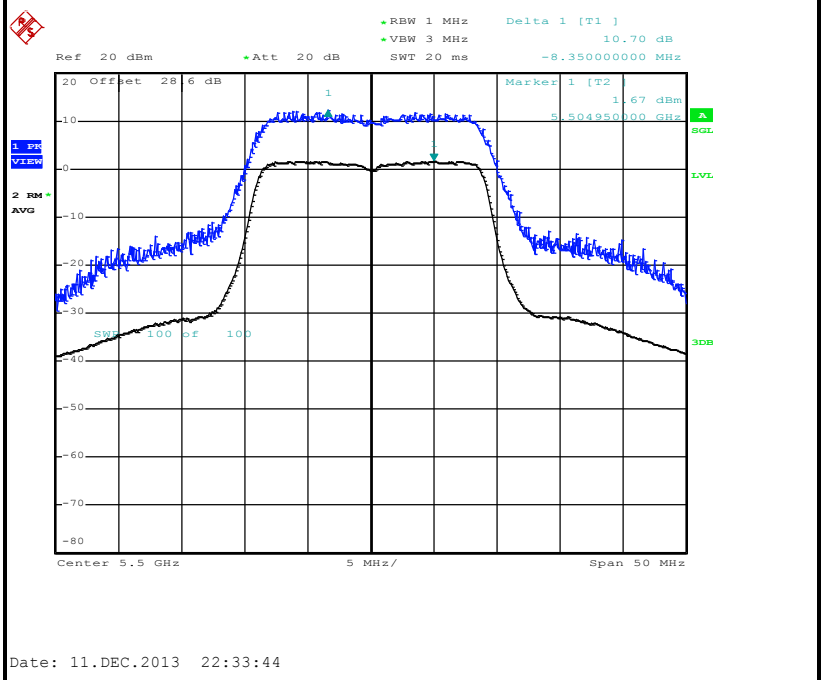
3.4.5 Test Result of Peak Excursion Ratio

Test Band :	5GHz band 3	Temperature :	21~26℃
Test Engineer :	Osolemio Chang	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	100	5500	9.53	9.33	9.11	9.29	-	13	Pass
HT20	1	100	5500	9.46	9.55	9.28	8.60	-	13	Pass
HT40	1	102	5510	9.17	9.50	9.31	9.36	-	13	Pass

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

Worst Case Peak Excursion Ratio (dB)



Note:

1. Peak Excursion Ratio (dB) = Peak – (Average + Duty Cycle Offset), Duty Cycle Offset: 1.15 dB
2. The total loss is 28.6 dB of the RF cable and attenuator, and has been compensated to the spectrum analyzer offset.

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.

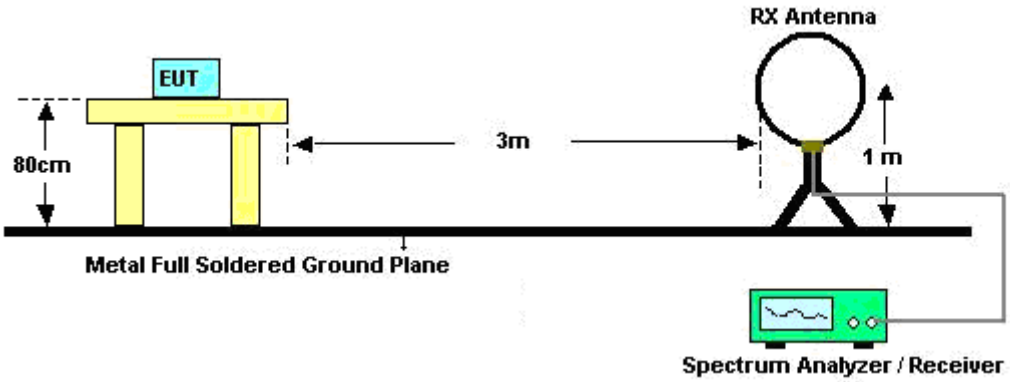
Band	Duty Cycle (%)	T(μs)	1/T(kHz)	VBW Setting
802.11a	87.26	1370	0.73	1kHz
802.11n HT20	86.49	1280	0.78	1kHz
802.11n HT40	76.19	640	1.56	3kHz

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.

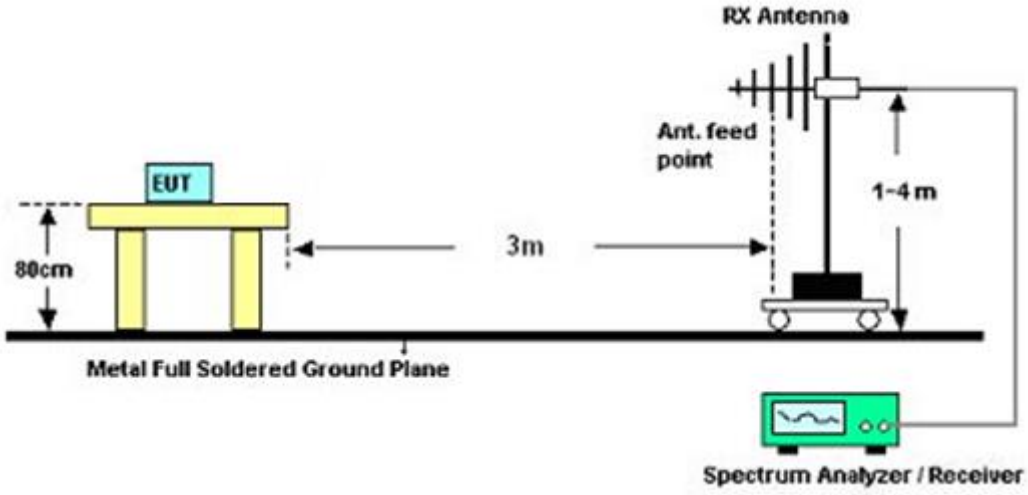
5. For each suspected emission, the EUT was arranged to its worst case and then adjust the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
6. For testing below 1GHz, if the emission level of the EUT in peak mode was 3 dB lower than the limit specified, 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

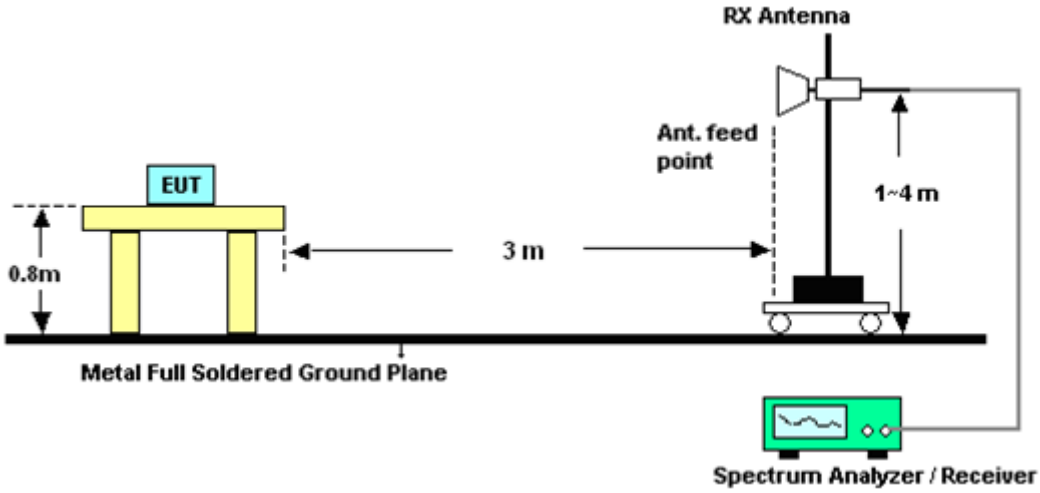
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



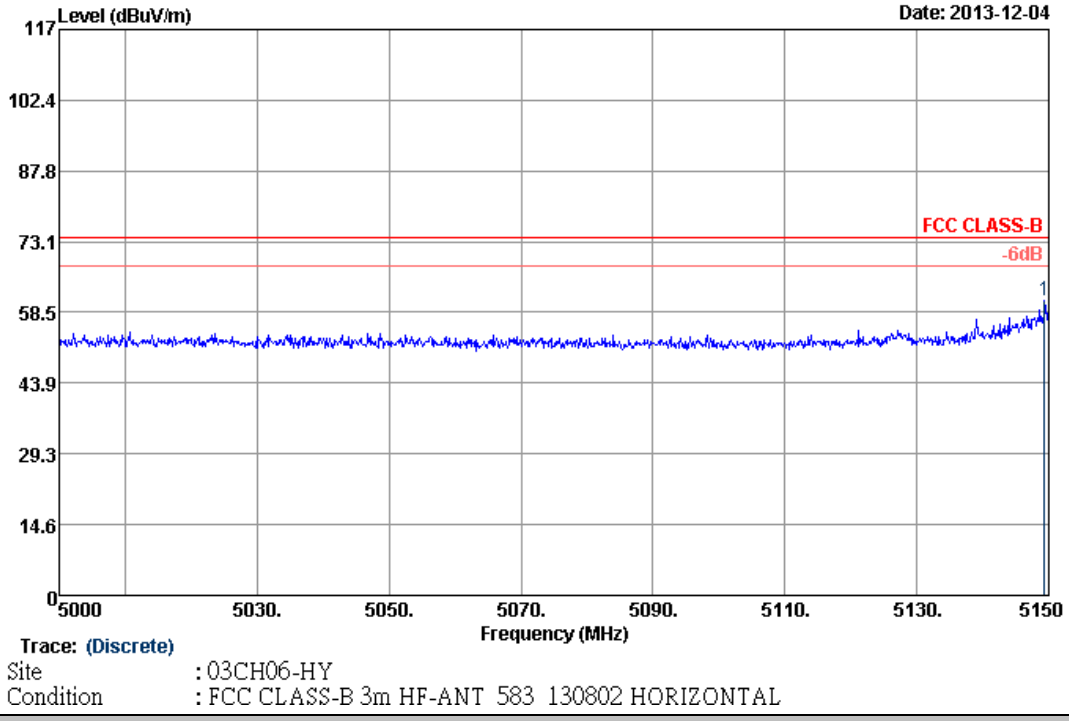
3.5.5 Test Results of Radiated Emissions (9 kHz ~ 30 MHz)

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

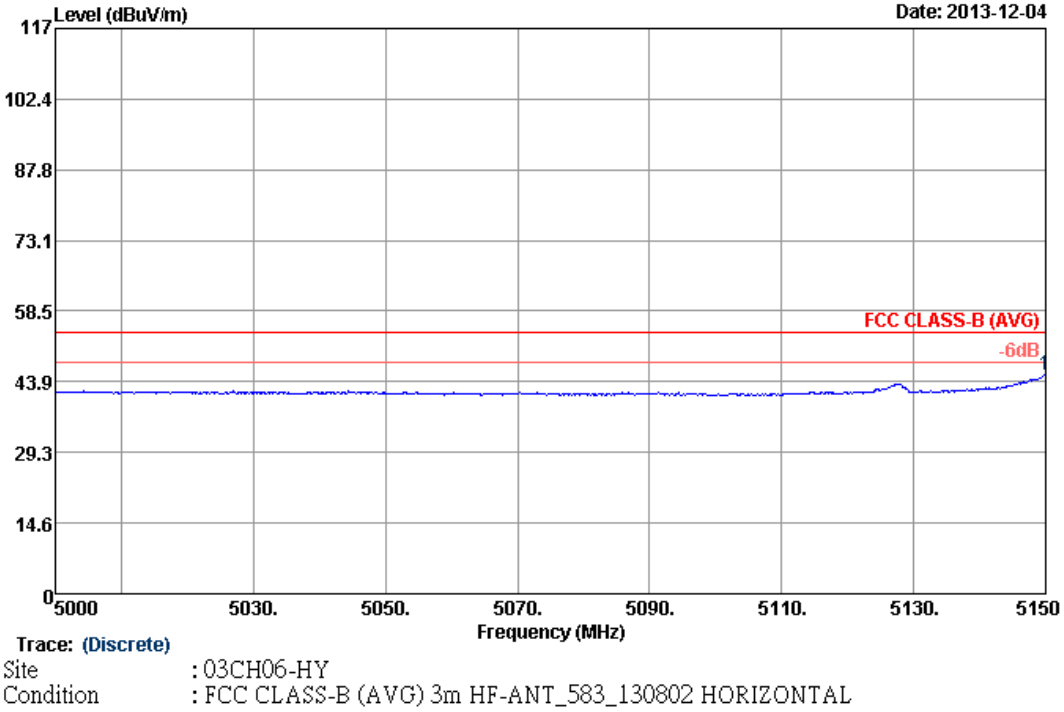
Test Mode :	802.11a	Temperature :	22~24
Test Band :	Low	Relative Humidity :	47~49
Test Channel :	36	Test Engineer :	Marlboro Hsu



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	60.9	-13.1	74	49.36	34.45	10.44	33.35	173	281	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.

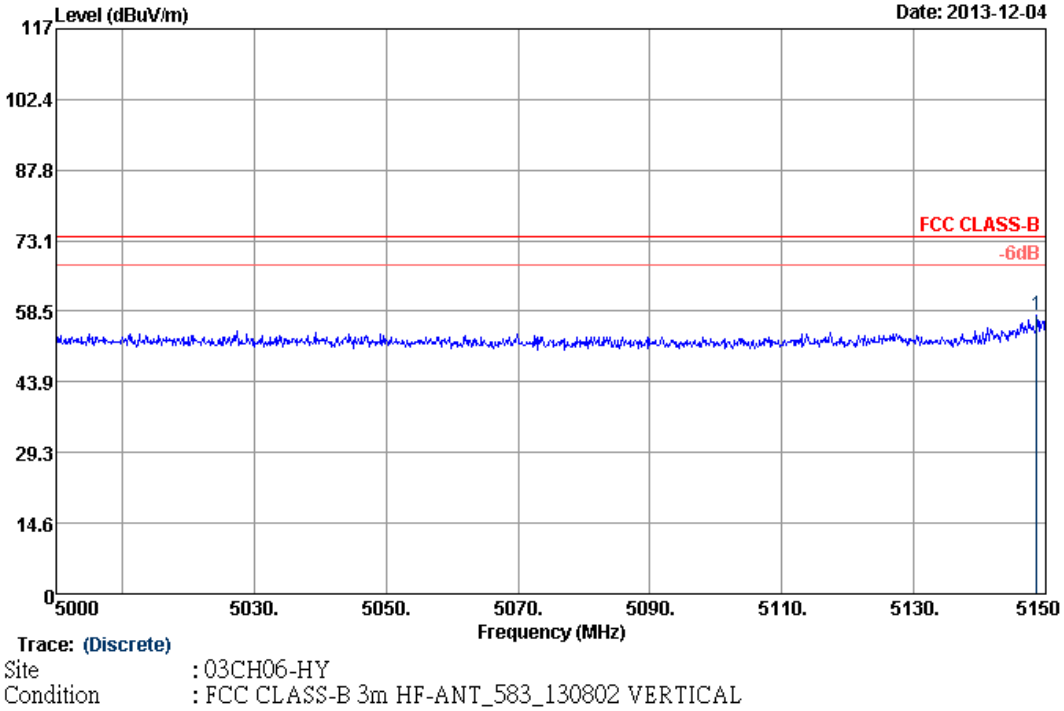
Test Mode :	802.11a	Temperature :	22~24
Test Band :	Low	Relative Humidity :	47~49
Test Channel :	36	Test Engineer :	Marlboro Hsu



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	45.44	-8.56	54	33.9	34.45	10.44	33.35	173	281	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 :	22~24
Test Band :	Low	Relative Humidity :	47~49
Test Channel :	36	Test Engineer :	Marlboro Hsu

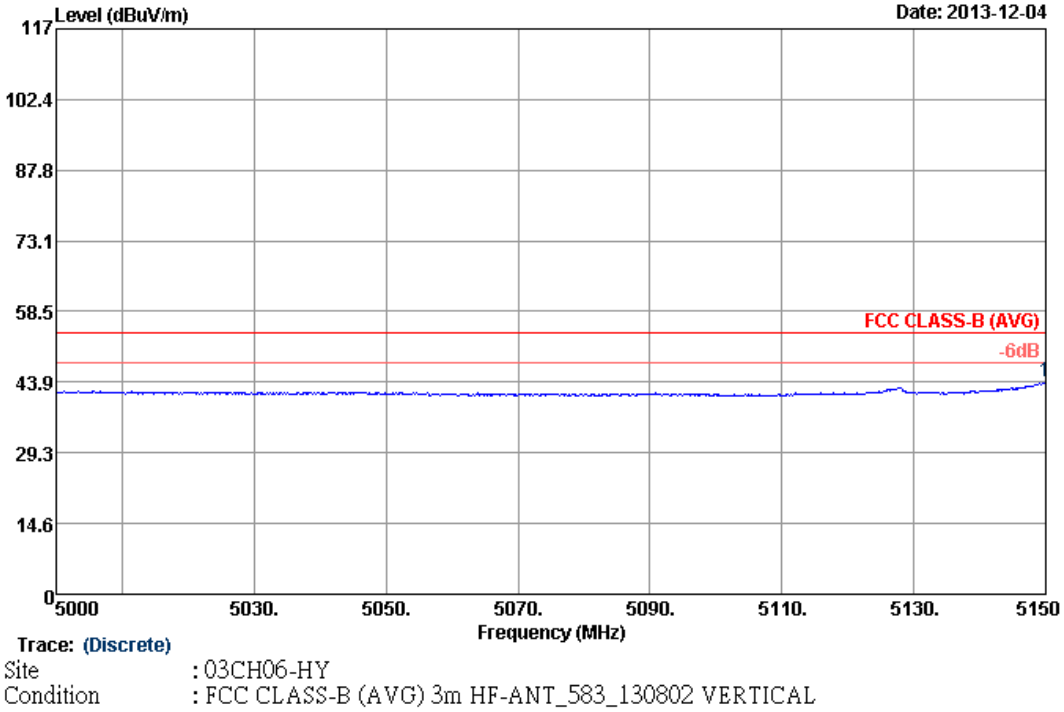


ANTENNA POLARITY : VERTICAL

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
5148.65	57.53	-16.47	74	45.99	34.45	10.44	33.35	138	360	Peak

Note: Worst case measurement on 5148.65 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 :	802.11a	Temperature :	22~24
Test Band :	Low	Relative Humidity :	47~49
Test Channel :	36	Test Engineer :	Marlboro Hsu

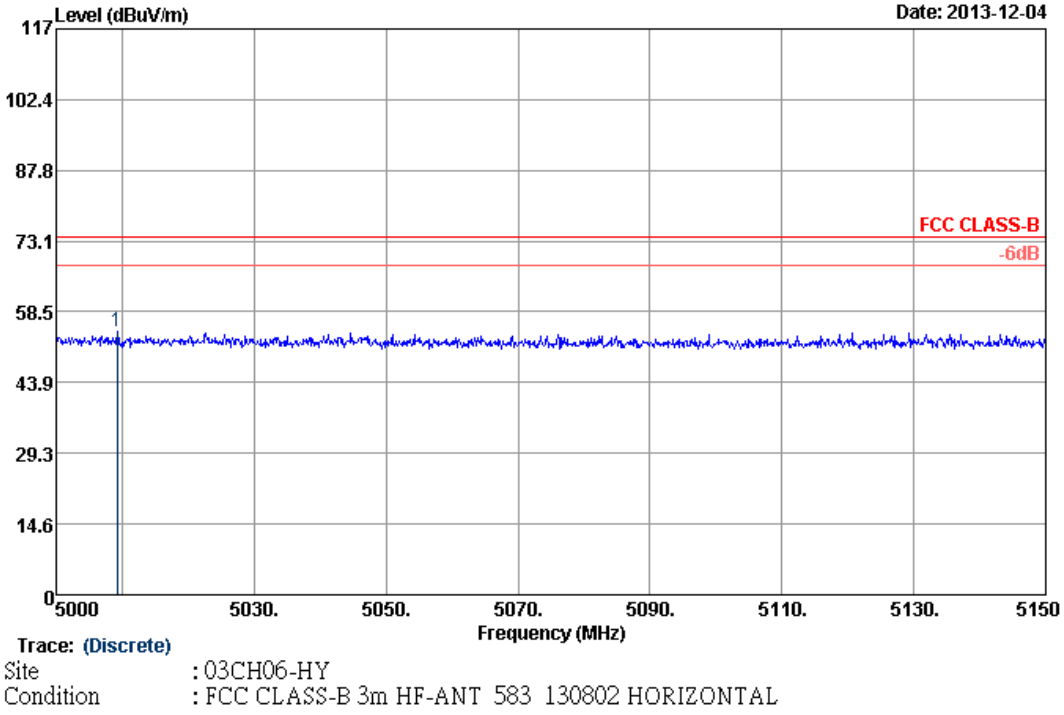


ANTENNA POLARITY : VERTICAL

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	44.13	-9.87	54	32.59	34.45	10.44	33.35	138	360	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 :	22~24
Test Band :	High	Relative Humidity :	47~49
Test Channel :	48	Test Engineer :	Marlboro Hsu

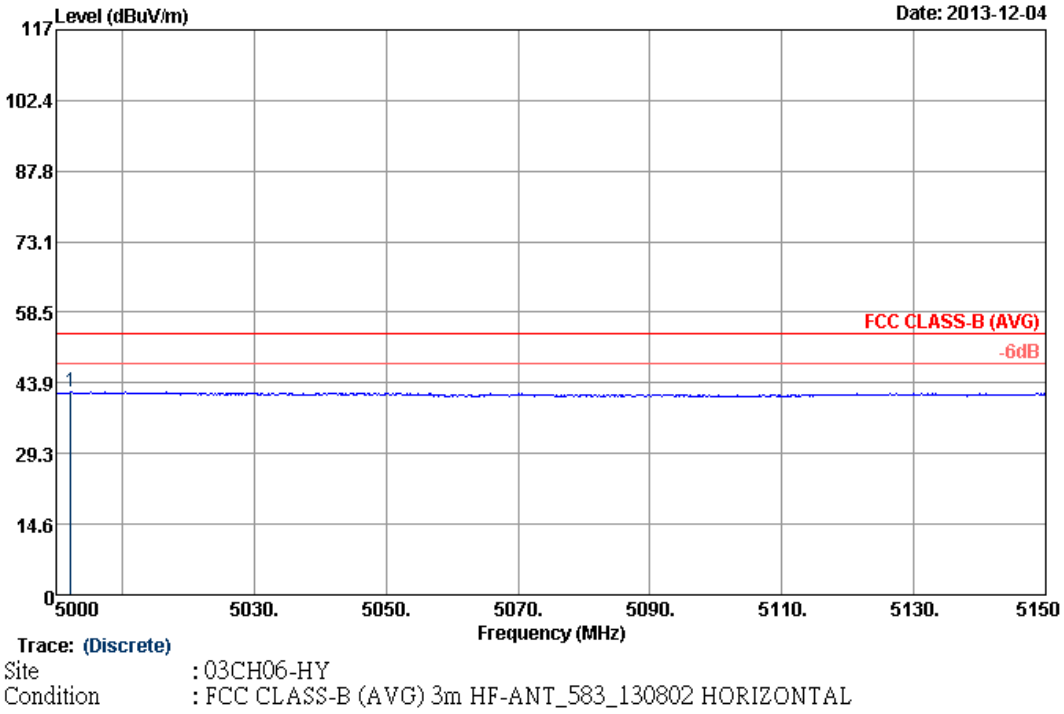


ANTENNA POLARITY : HORIZONTAL

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
5009.3	54.36	-19.64	74	43.23	34.32	10.23	33.42	141	280	Peak

Note: Worst case measurement on 5009.3 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 :	22~24
Test Band :	High	Relative Humidity :	47~49
Test Channel :	48	Test Engineer :	Marlboro Hsu

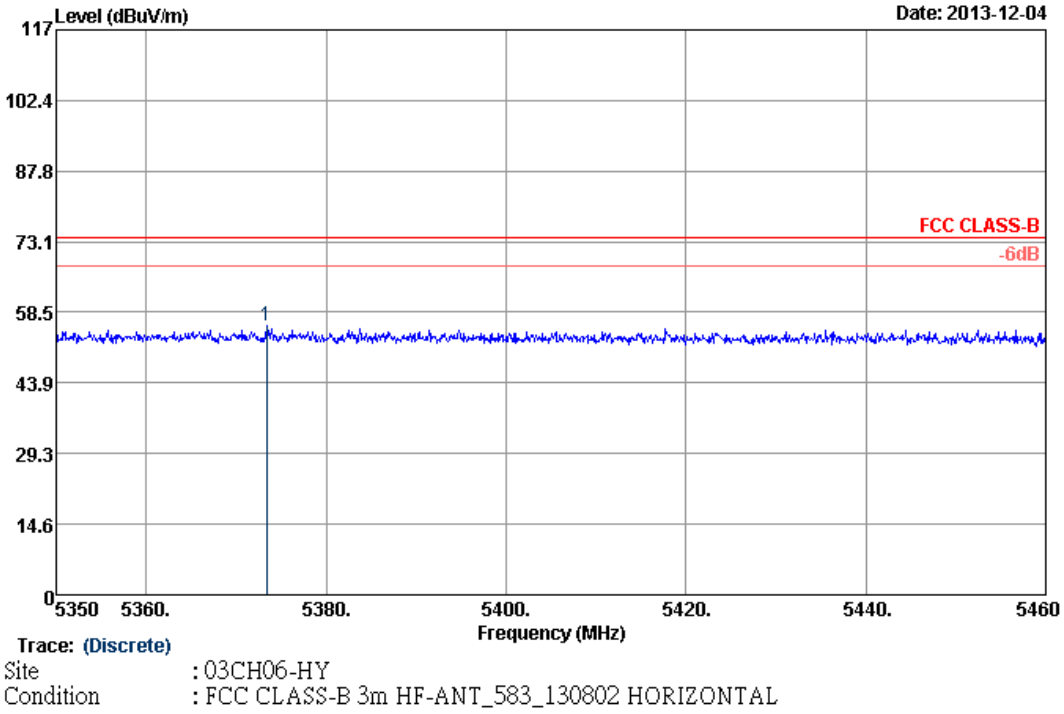


ANTENNA POLARITY : HORIZONTAL

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
5002.25	41.93	-12.07	54	30.82	34.3	10.23	33.42	141	280	Average

Note: Worst case measurement on 5002.25 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 :	22~24
Test Band :	High	Relative Humidity :	47~49
Test Channel :	48	Test Engineer :	Marlboro Hsu

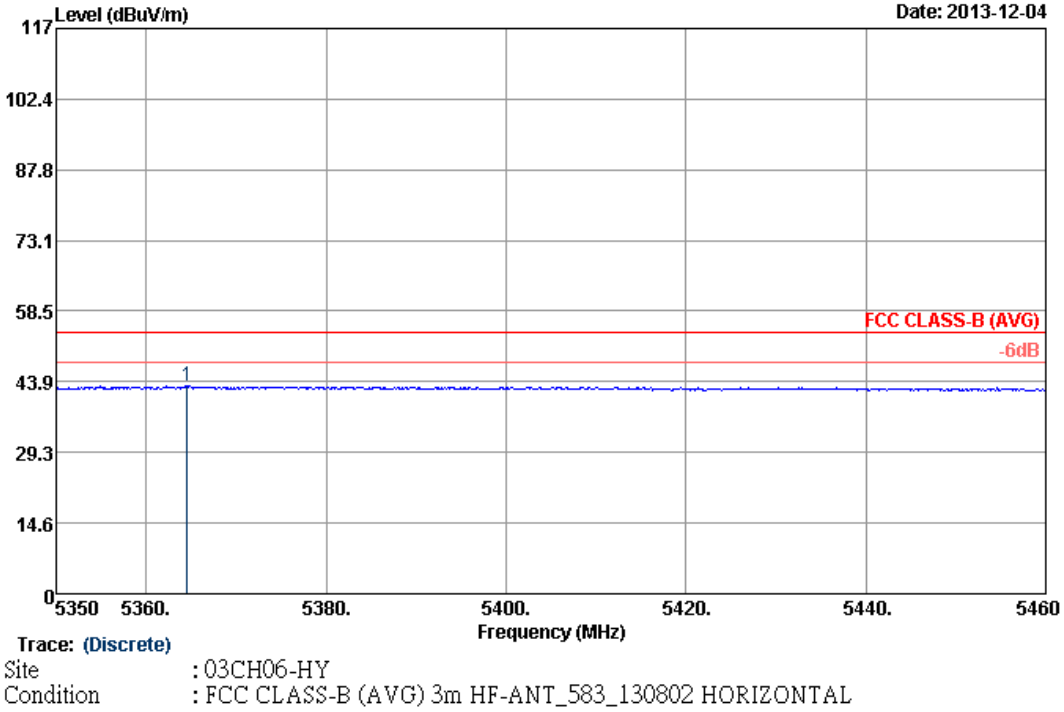


ANTENNA POLARITY : HORIZONTAL

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
5373.43	55.58	-18.42	74	43.41	34.67	10.75	33.25	141	280	Peak

Note: Worst case measurement on 5373.43 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 :	22~24
Test Band :	High	Relative Humidity :	47~49
Test Channel :	48	Test Engineer :	Marlboro Hsu

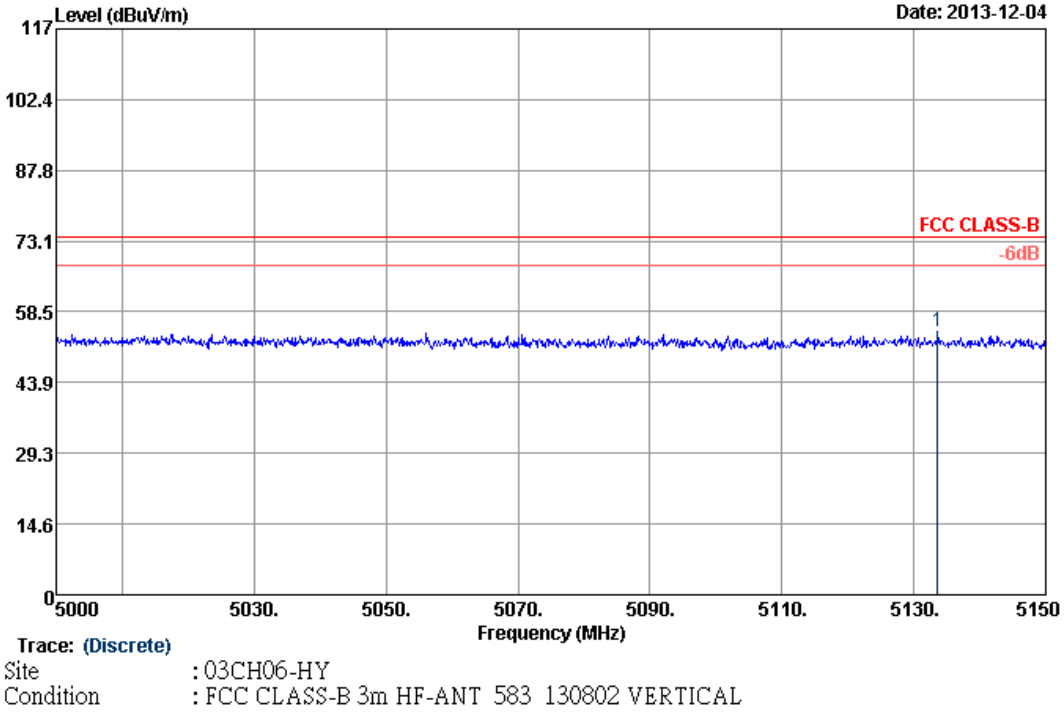


ANTENNA POLARITY : HORIZONTAL

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
5364.52	42.94	-11.06	54	30.79	34.67	10.75	33.27	141	280	Average

Note: Worst case measurement on 5364.52 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 :	802.11a	Temperature :	22~24
Test Band :	High	Relative Humidity :	47~49
Test Channel :	48	Test Engineer :	Marlboro Hsu

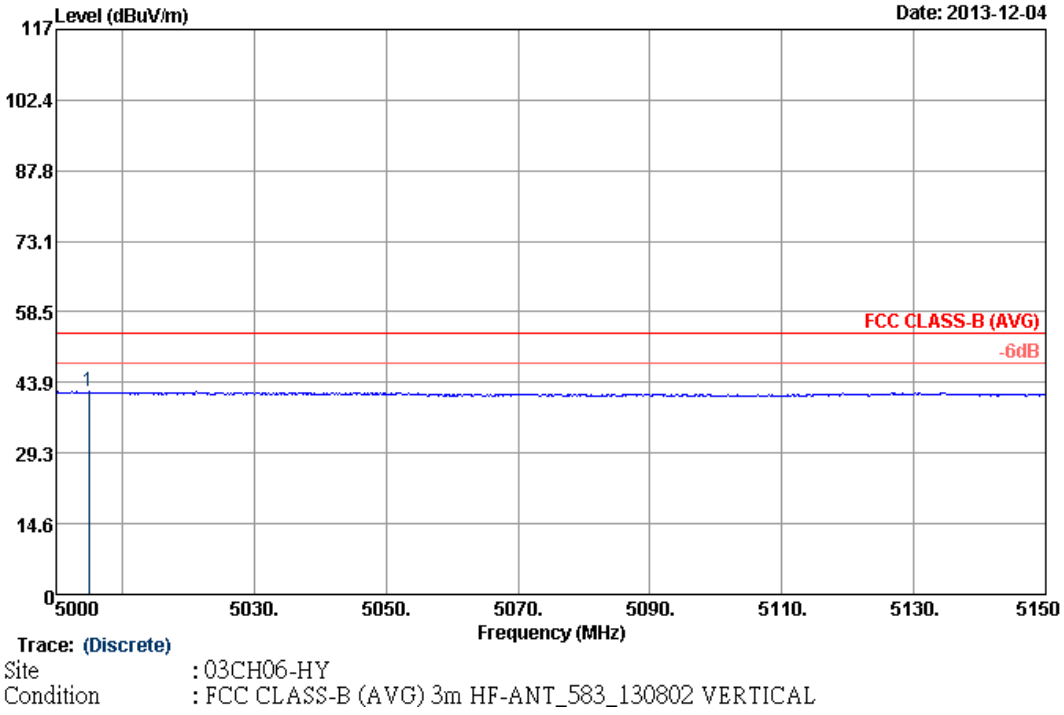


ANTENNA POLARITY : VERTICAL

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
5133.65	54.51	-19.49	74	43.04	34.43	10.4	33.36	100	317	Peak

Note: Worst case measurement on 5133.65 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.

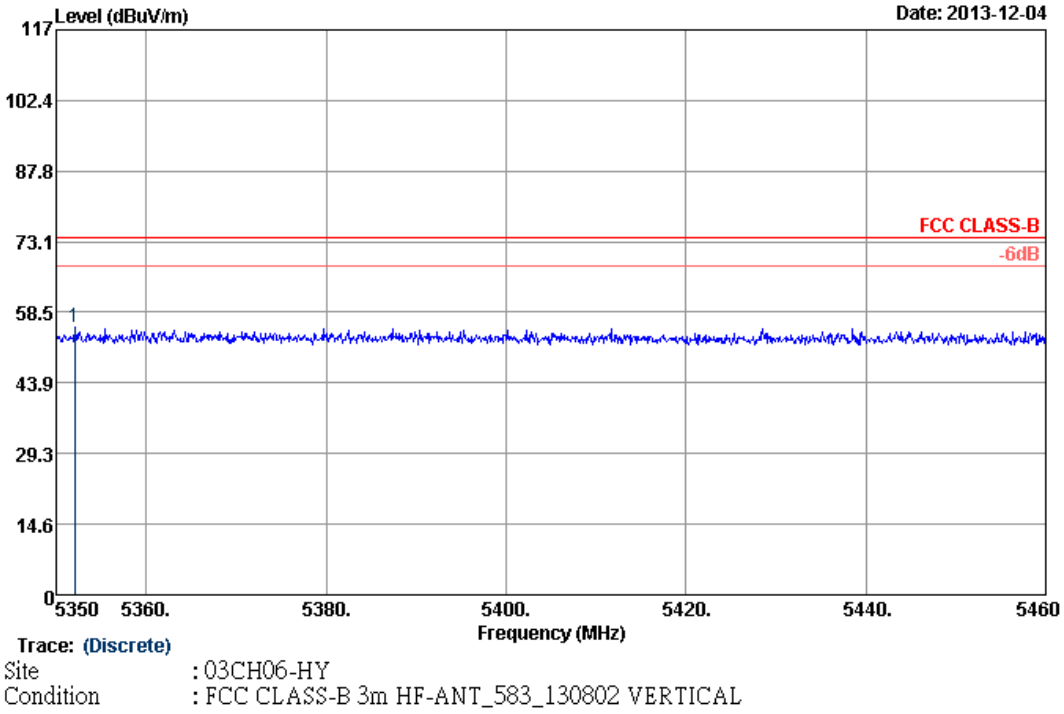
Test Mode :	802.11a	Temperature :	22~24
Test Band :	High	Relative Humidity :	47~49
Test Channel :	48	Test Engineer :	Marlboro Hsu



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
5004.95	42.09	-11.91	54	30.96	34.32	10.23	33.42	100	317	Average

Note: Worst case measurement on 5004.95 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 :	802.11a	Temperature :	22~24
Test Band :	High	Relative Humidity :	47~49
Test Channel :	48	Test Engineer :	Marlboro Hsu

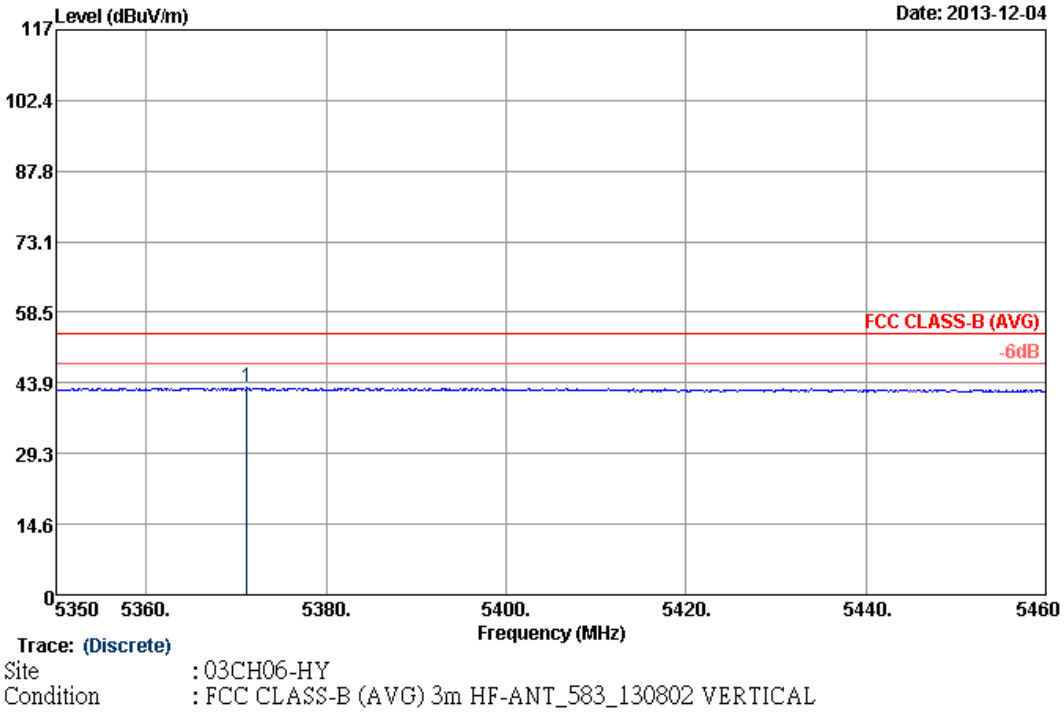


ANTENNA POLARITY : VERTICAL

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
5352.09	55.54	-18.46	74	43.44	34.65	10.72	33.27	100	317	Peak

Note: Worst case measurement on 5352.09 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 :	22~24
Test Band :	High	Relative Humidity :	47~49
Test Channel :	48	Test Engineer :	Marlboro Hsu

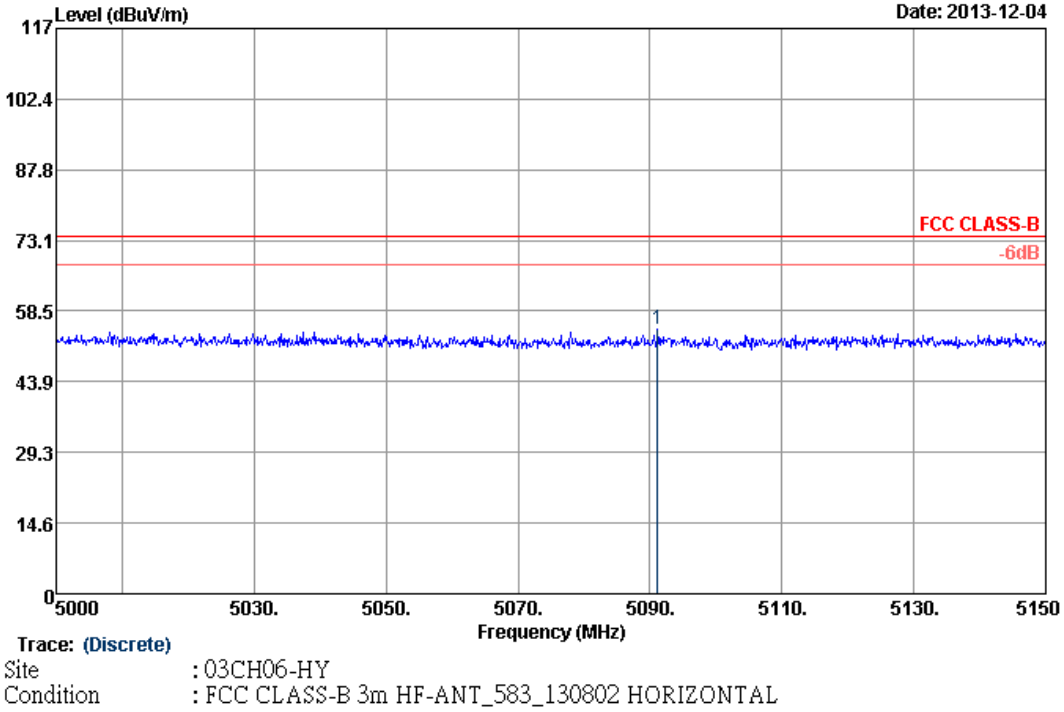


ANTENNA POLARITY : VERTICAL

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
5371.23	42.92	-11.08	54	30.77	34.67	10.75	33.27	100	317	Average

Note: Worst case measurement on 5371.23 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 :	802.11a	Temperature :	22~24
Test Band :	Low	Relative Humidity :	47~49
Test Channel :	52	Test Engineer :	Marlboro Hsu

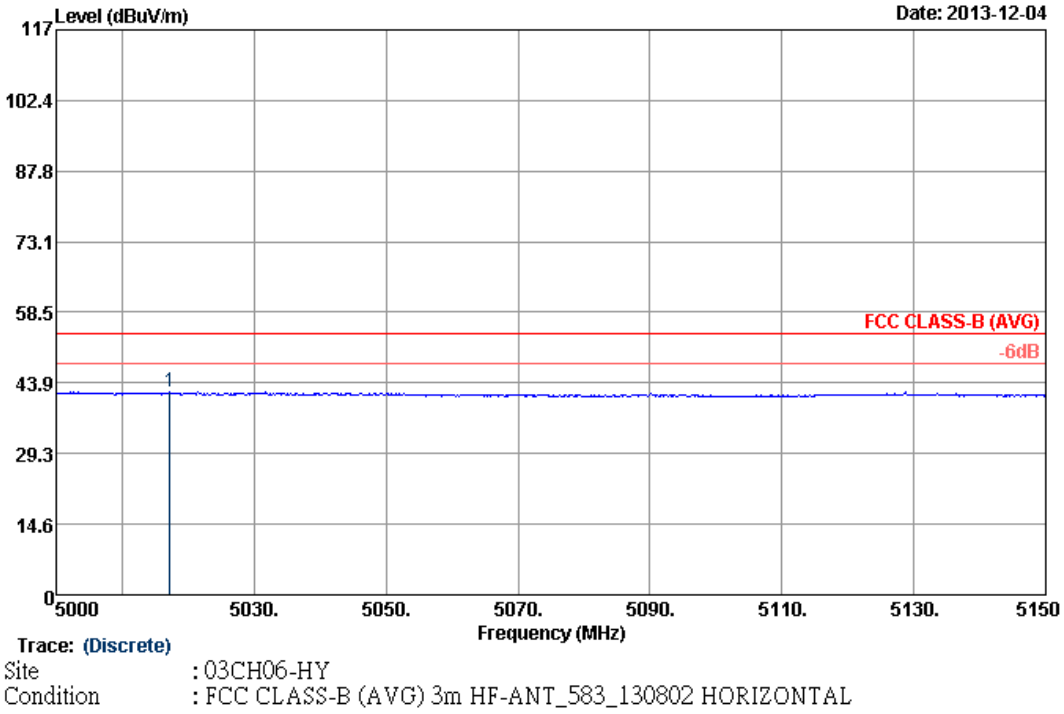


ANTENNA POLARITY : HORIZONTAL

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
5091.2	54.65	-19.35	74	43.31	34.4	10.33	33.39	100	283	Peak

Note: Worst case measurement on 5091.2 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.

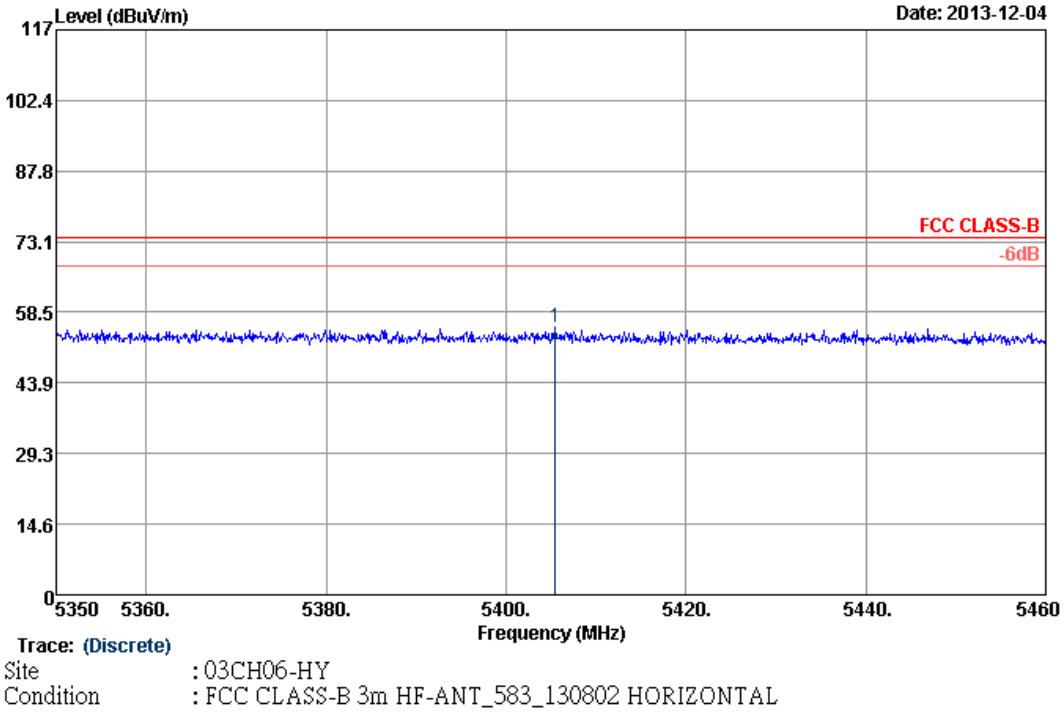
Test Mode :	802.11a	Temperature :	22~24
Test Band :	Low	Relative Humidity :	47~49
Test Channel :	52	Test Engineer :	Marlboro Hsu



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
5017.25	41.96	-12.04	54	30.82	34.32	10.23	33.41	100	283	Average

Note: Worst case measurement on 5017.25 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 :	22~24
Test Band :	Low	Relative Humidity :	47~49
Test Channel :	52	Test Engineer :	Marlboro Hsu

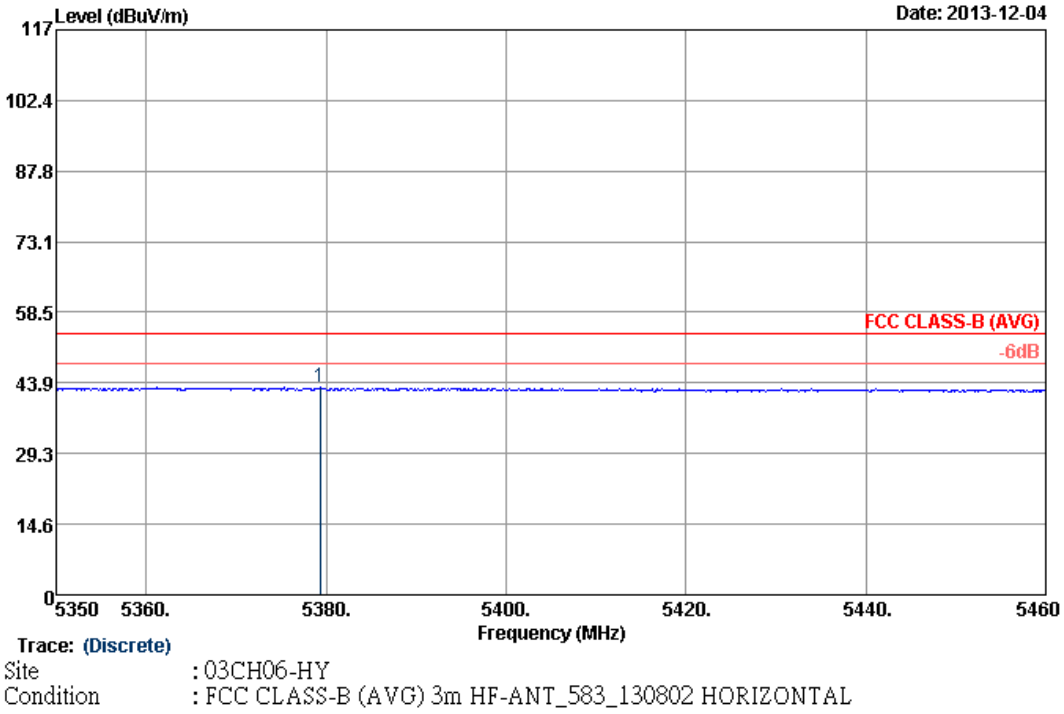


ANTENNA POLARITY : HORIZONTAL

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
5405.44	55.36	-18.64	74	43.08	34.7	10.82	33.24	100	283	Peak

Note: Worst case measurement on 5405.44 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 :	802.11a	Temperature :	22~24
Test Band :	Low	Relative Humidity :	47~49
Test Channel :	52	Test Engineer :	Marlboro Hsu

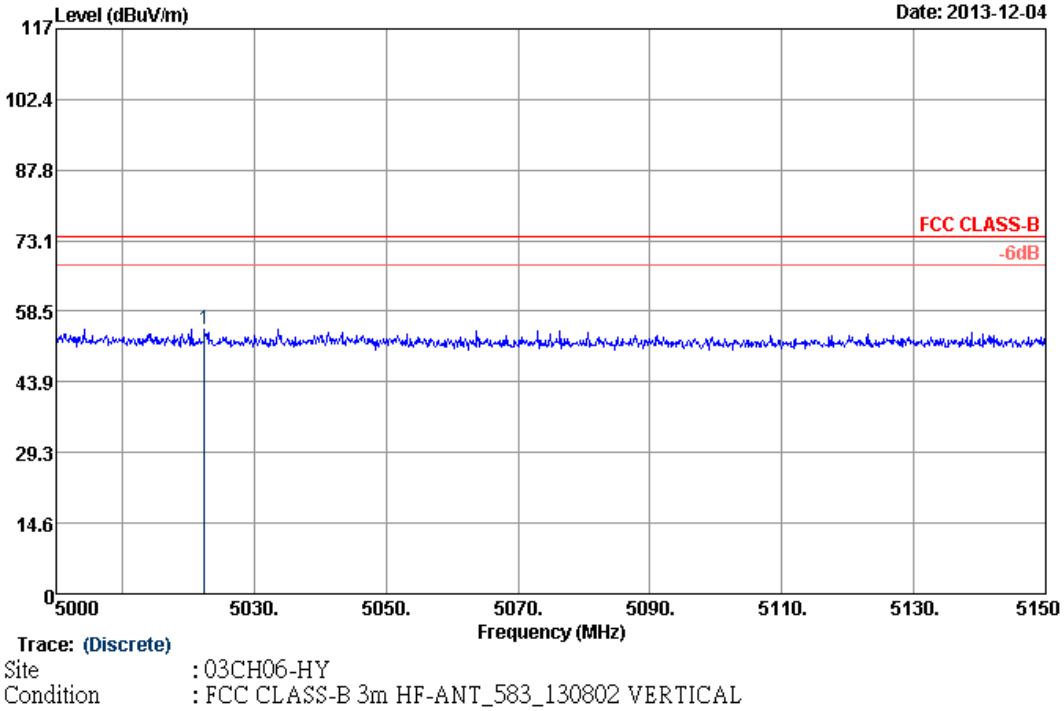


ANTENNA POLARITY : HORIZONTAL

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
5379.37	42.91	-11.09	54	30.73	34.68	10.75	33.25	100	283	Average

Note: Worst case measurement on 5379.37 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 :	22~24
Test Band :	Low	Relative Humidity :	47~49
Test Channel :	52	Test Engineer :	Marlboro Hsu

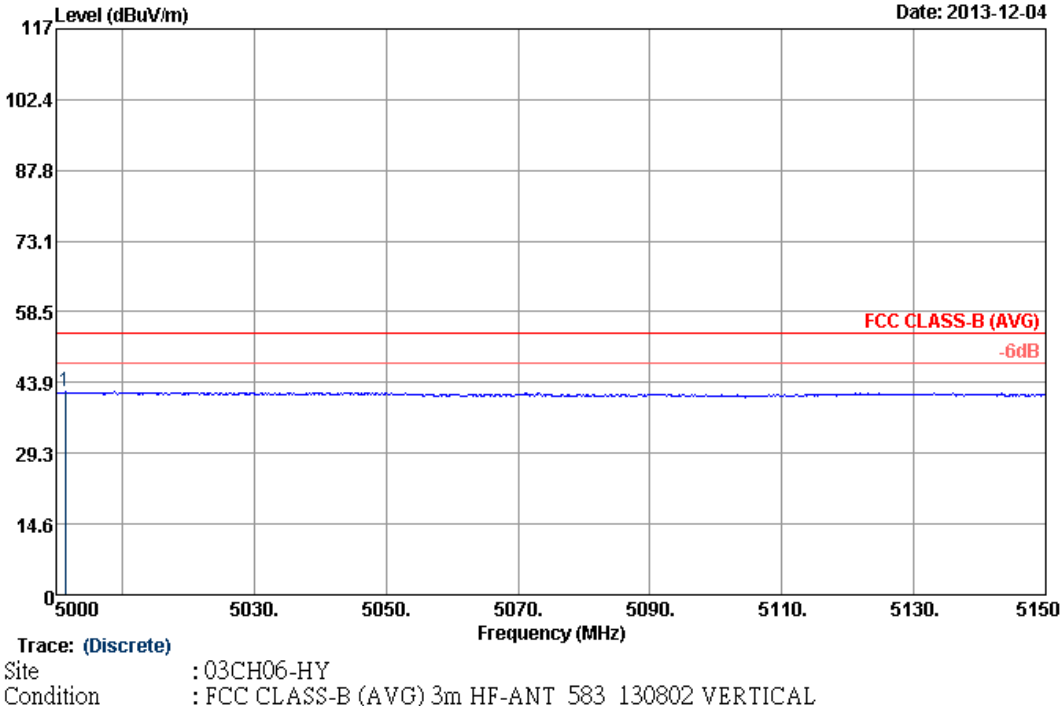


ANTENNA POLARITY : VERTICAL

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
5022.5	54.78	-19.22	74	43.6	34.33	10.26	33.41	100	120	Peak

Note: Worst case measurement on 5022.5 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 :	22~24
Test Band :	Low	Relative Humidity :	47~49
Test Channel :	52	Test Engineer :	Marlboro Hsu

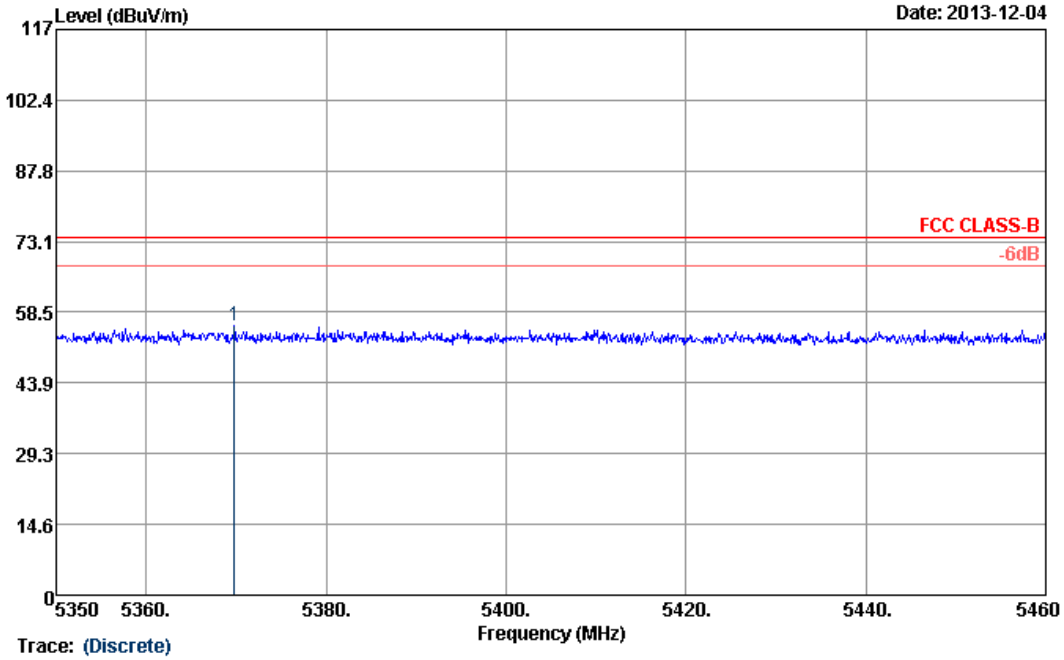


ANTENNA POLARITY : VERTICAL

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
5001.35	41.93	-12.07	54	30.82	34.3	10.23	33.42	100	120	Average

Note: Worst case measurement on 5001.35 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 :	802.11a	Temperature :	22~24
Test Band :	Low	Relative Humidity :	47~49
Test Channel :	52	Test Engineer :	Marlboro Hsu

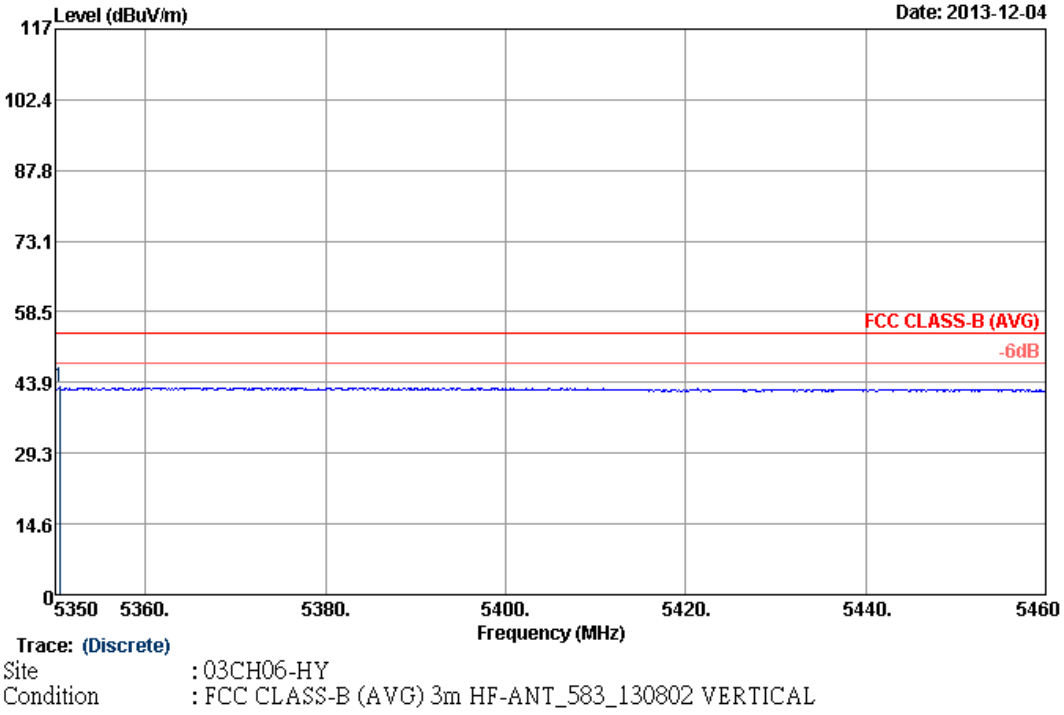


ANTENNA POLARITY : VERTICAL

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
5369.8	55.62	-18.38	74	43.47	34.67	10.75	33.27	100	120	Peak

Note: Worst case measurement on 5369.8 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 :	802.11a	Temperature :	22~24
Test Band :	Low	Relative Humidity :	47~49
Test Channel :	52	Test Engineer :	Marlboro Hsu

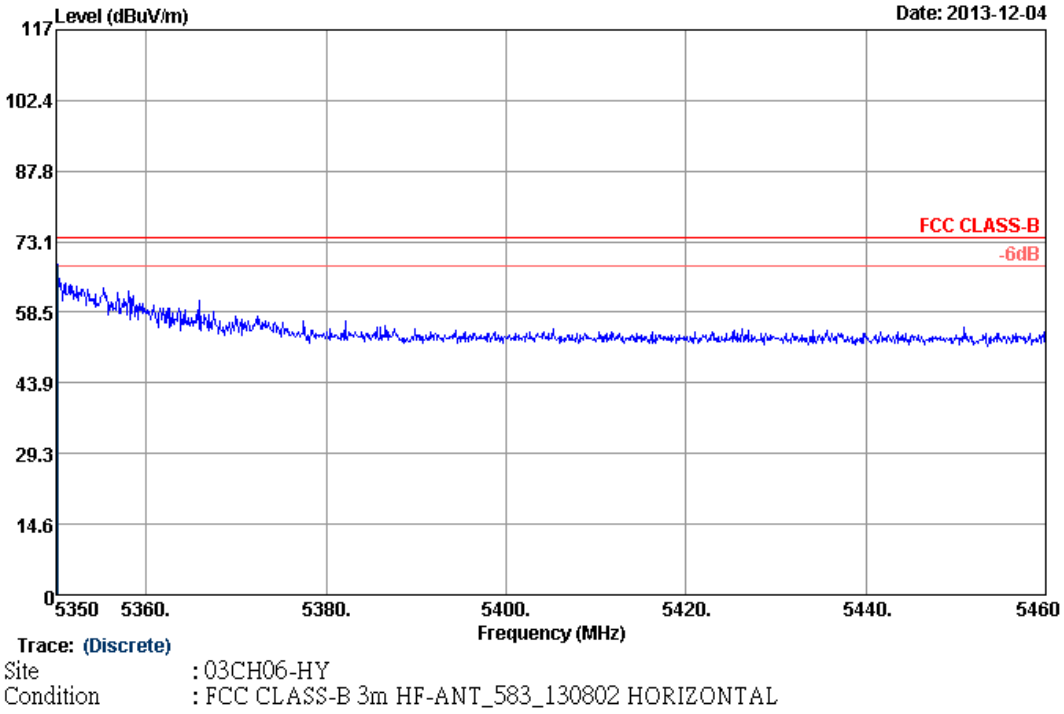


ANTENNA POLARITY : VERTICAL

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
5350.44	42.87	-11.13	54	30.77	34.65	10.72	33.27	100	120	Average

Note: Worst case measurement on 5350.44 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 :	802.11a	Temperature :	22~24
Test Band :	High	Relative Humidity :	47~49
Test Channel :	64	Test Engineer :	Marlboro Hsu

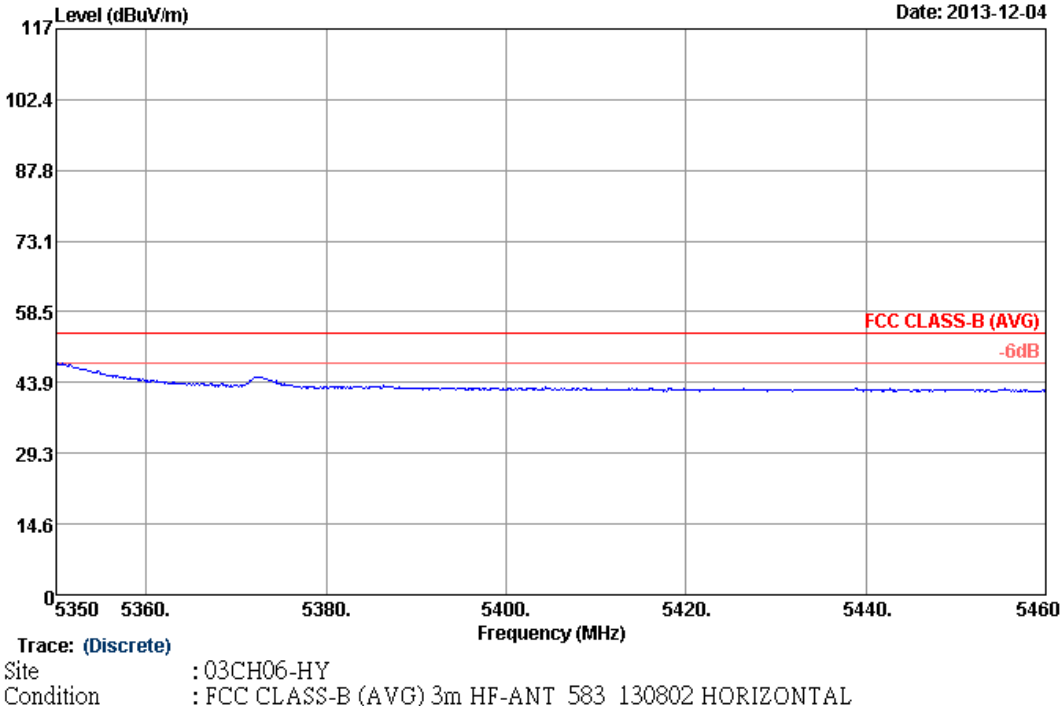


ANTENNA POLARITY : HORIZONTAL

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
5350.11	68.31	-5.69	74	56.21	34.65	10.72	33.27	100	272	Peak

Note: Worst case measurement on 5350.11 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 :	22~24
Test Band :	High	Relative Humidity :	47~49
Test Channel :	64	Test Engineer :	Marlboro Hsu

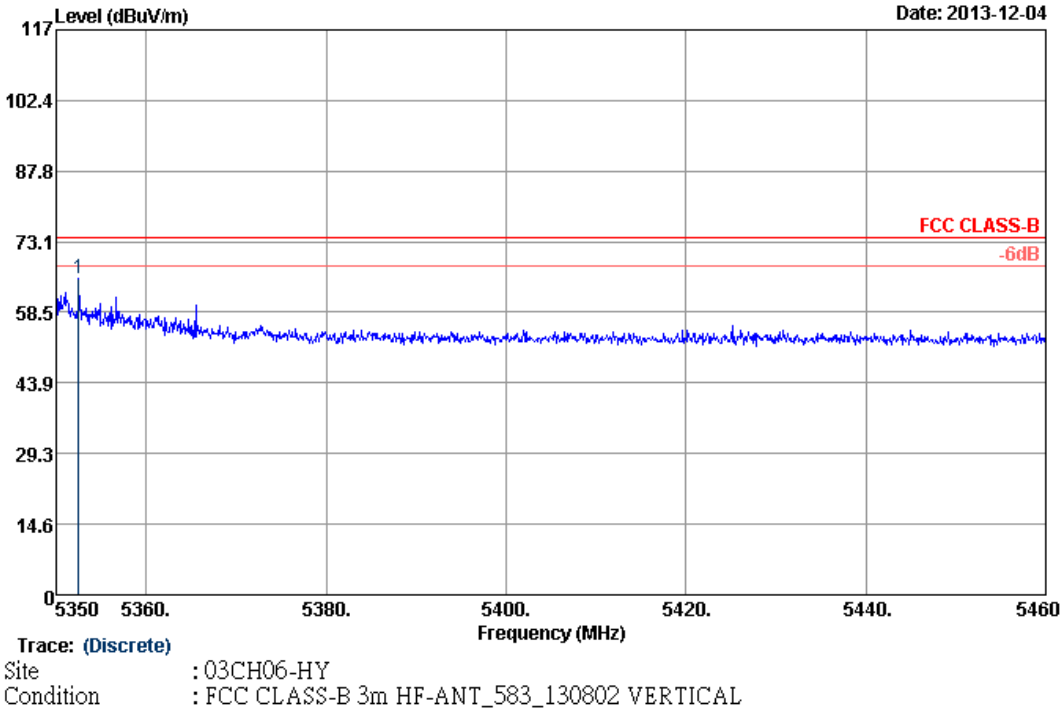


ANTENNA POLARITY : HORIZONTAL

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	47.93	-6.07	54	35.83	34.65	10.72	33.27	100	272	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 :	22~24
Test Band :	High	Relative Humidity :	47~49
Test Channel :	64	Test Engineer :	Marlboro Hsu

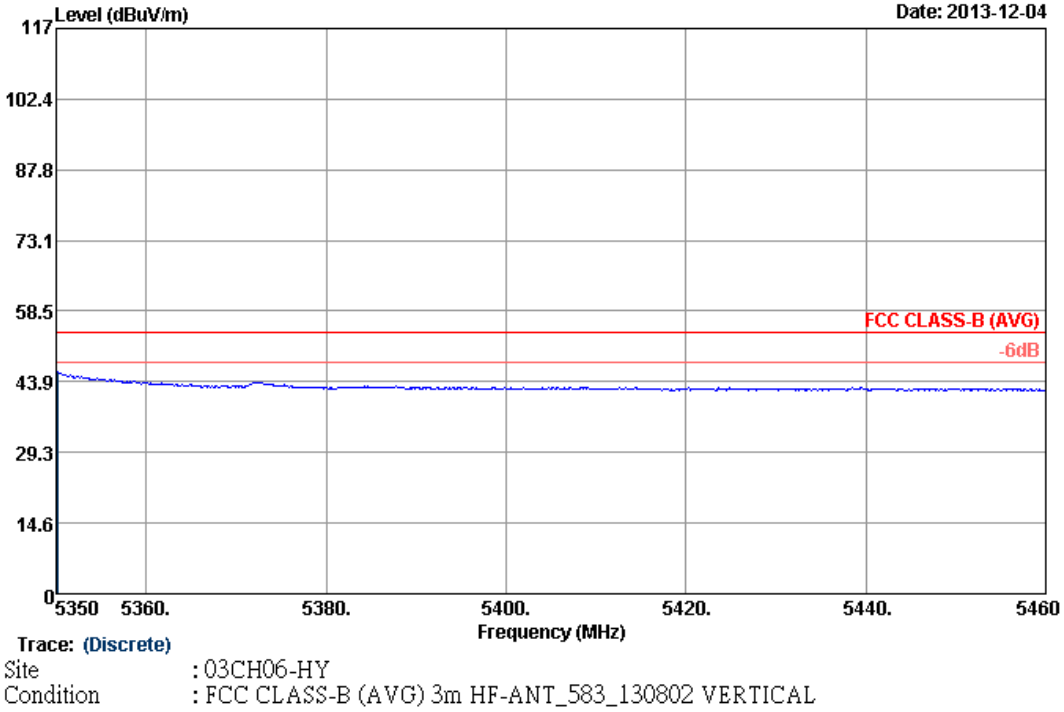


ANTENNA POLARITY : VERTICAL

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
5352.53	65.61	-8.39	74	53.51	34.65	10.72	33.27	100	117	Peak

Note: Worst case measurement on 5352.53 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 :	802.11a	Temperature :	22~24
Test Band :	High	Relative Humidity :	47~49
Test Channel :	64	Test Engineer :	Marlboro Hsu

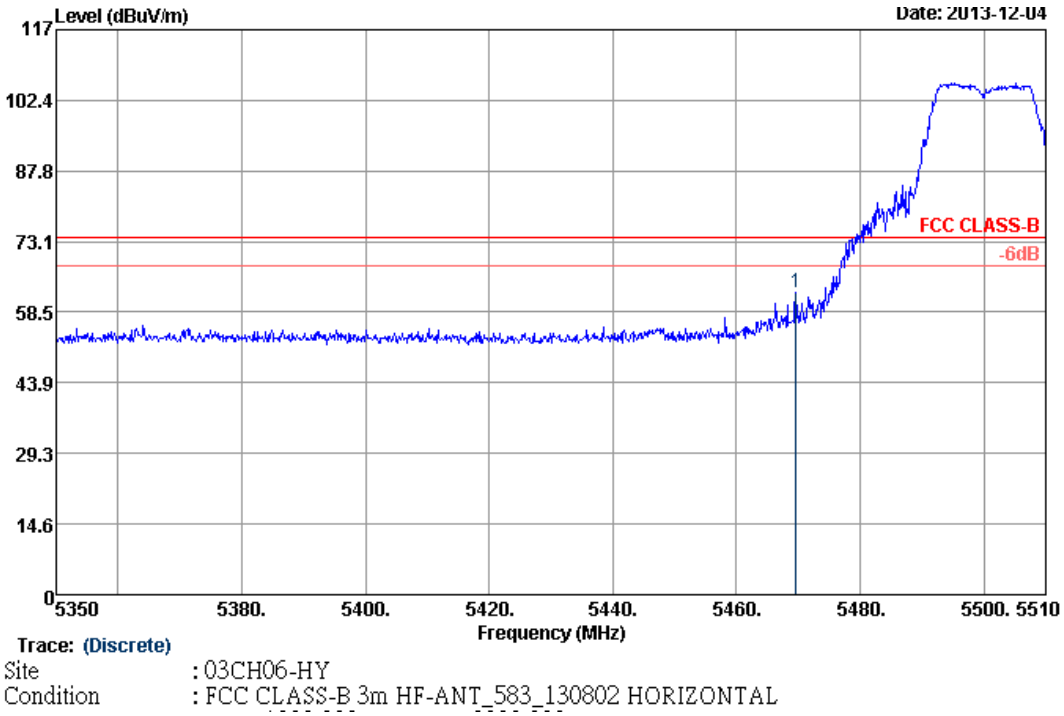


ANTENNA POLARITY : VERTICAL

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
5350.11	45.89	-8.11	54	33.79	34.65	10.72	33.27	100	117	Average

Note: Worst case measurement on 5350.11 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 :	22~24
Test Band :	Low	Relative Humidity :	47~49
Test Channel :	100	Test Engineer :	Marlboro Hsu

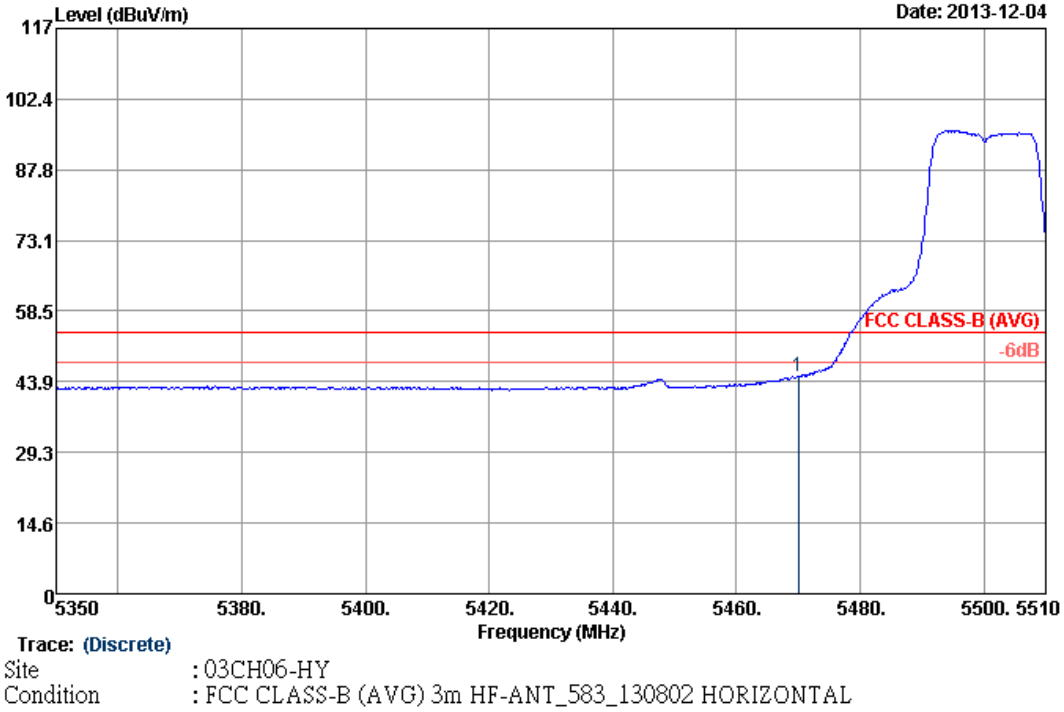


ANTENNA POLARITY : HORIZONTAL

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
5469.68	62.65	-11.35	74	50.21	34.77	10.89	33.22	100	349	Peak

Note: Worst case measurement on 5469.68 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 :	22~24
Test Band :	Low	Relative Humidity :	47~49
Test Channel :	100	Test Engineer :	Marlboro Hsu

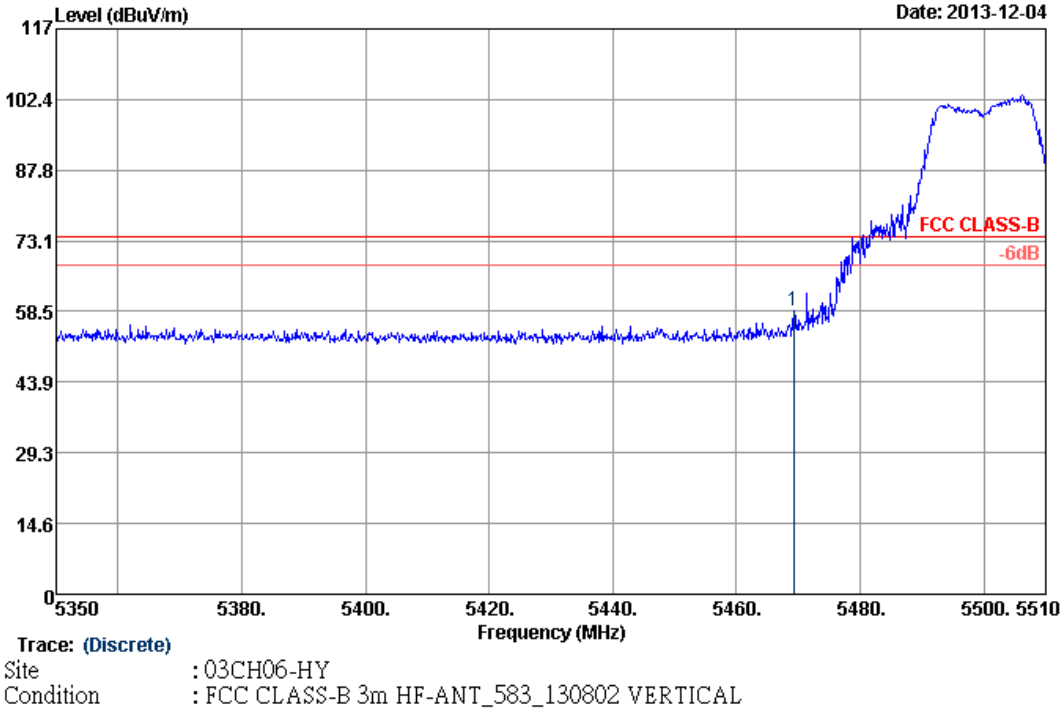


ANTENNA POLARITY : HORIZONTAL

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	45.12	-8.88	54	32.68	34.77	10.89	33.22	100	349	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 :	802.11a	Temperature :	22~24
Test Band :	Low	Relative Humidity :	47~49
Test Channel :	100	Test Engineer :	Marlboro Hsu

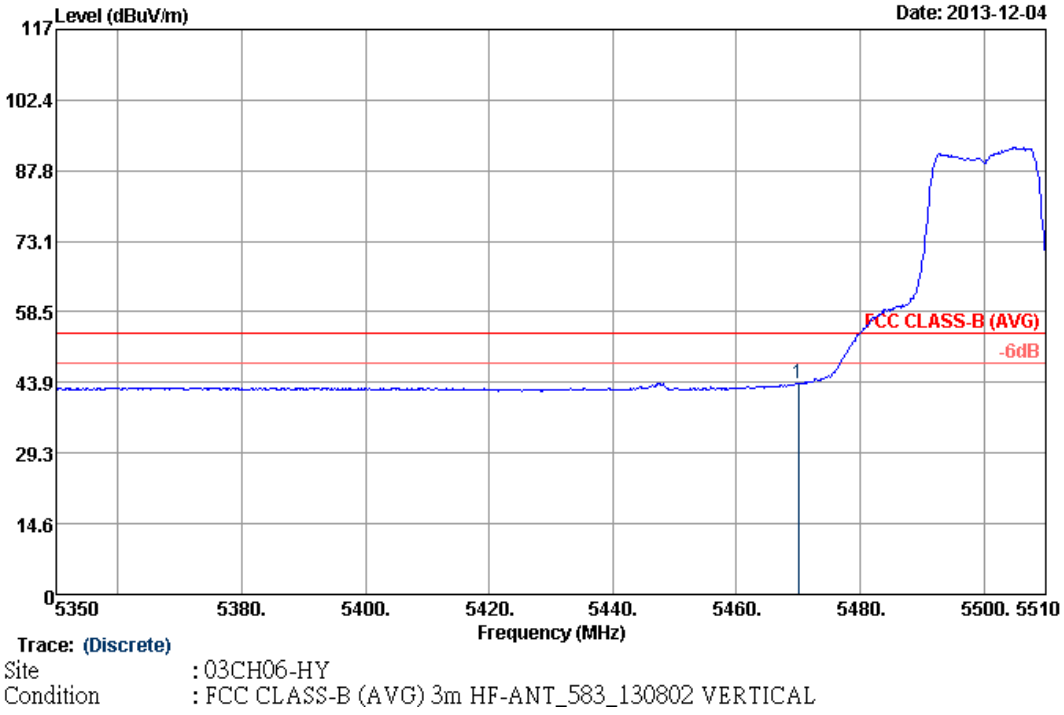


ANTENNA POLARITY : VERTICAL

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
5469.2	58.65	-15.35	74	46.21	34.77	10.89	33.22	114	241	Peak

Note: Worst case measurement on 5469.2 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 :	22~24
Test Band :	Low	Relative Humidity :	47~49
Test Channel :	100	Test Engineer :	Marlboro Hsu

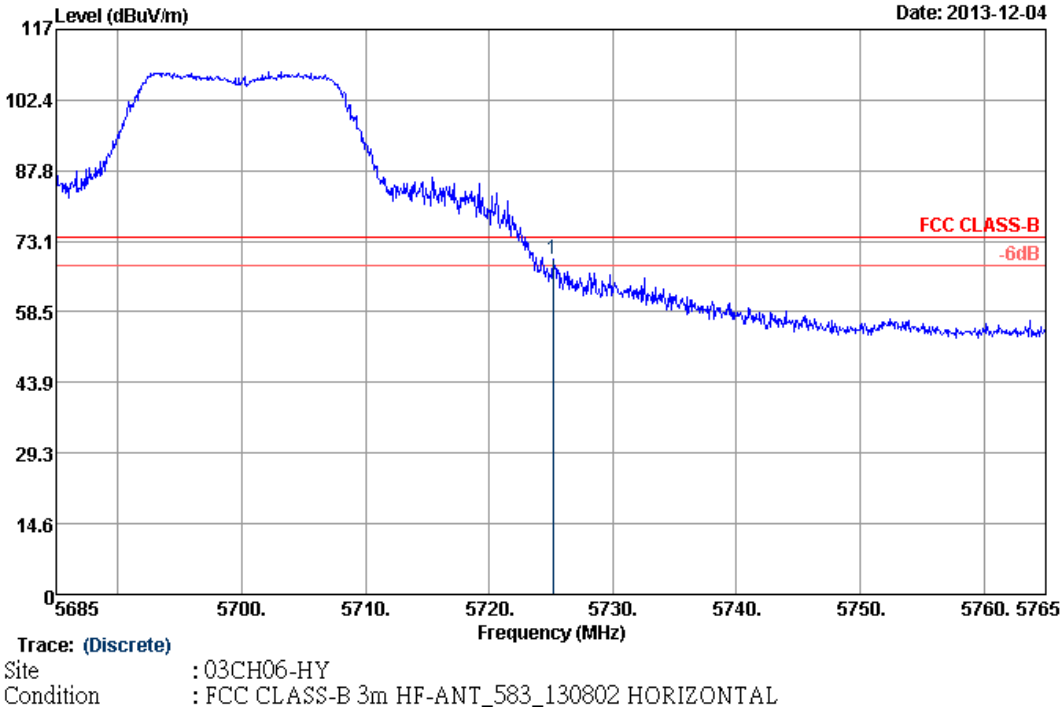


ANTENNA POLARITY : VERTICAL

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	43.72	-10.28	54	31.28	34.77	10.89	33.22	114	241	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 :	802.11a	Temperature :	22~24
Test Band :	High	Relative Humidity :	47~49
Test Channel :	140	Test Engineer :	Marlboro Hsu

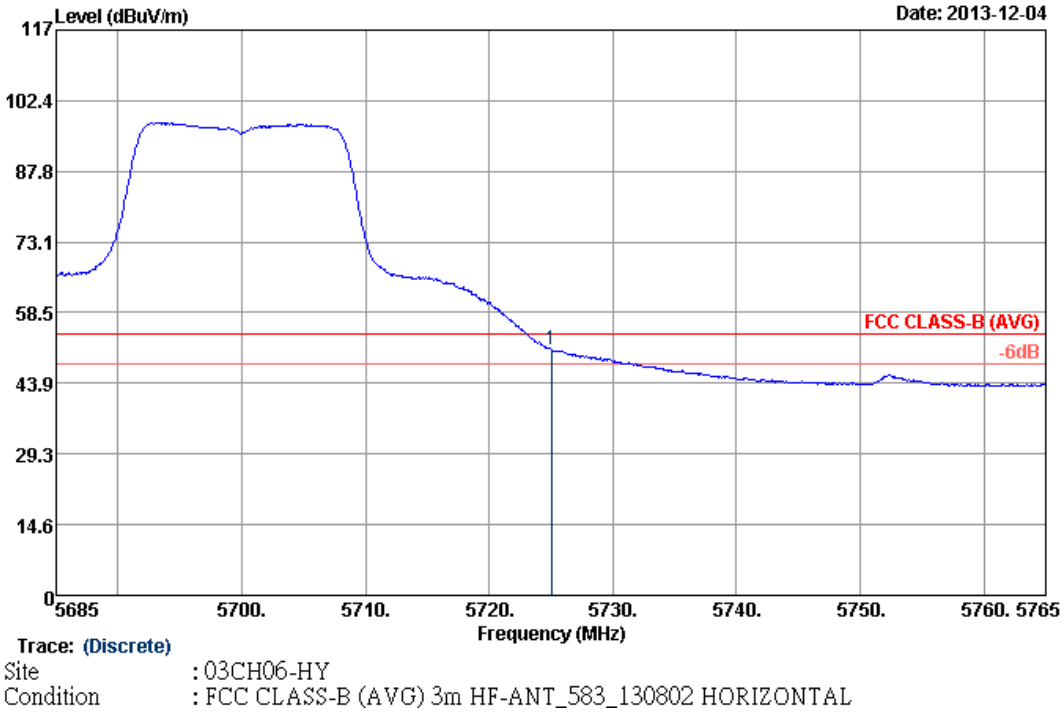


ANTENNA POLARITY : HORIZONTAL

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	69.29	-4.71	74	56.22	35.02	11.34	33.29	100	359	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 :	22~24
Test Band :	High	Relative Humidity :	47~49
Test Channel :	140	Test Engineer :	Marlboro Hsu

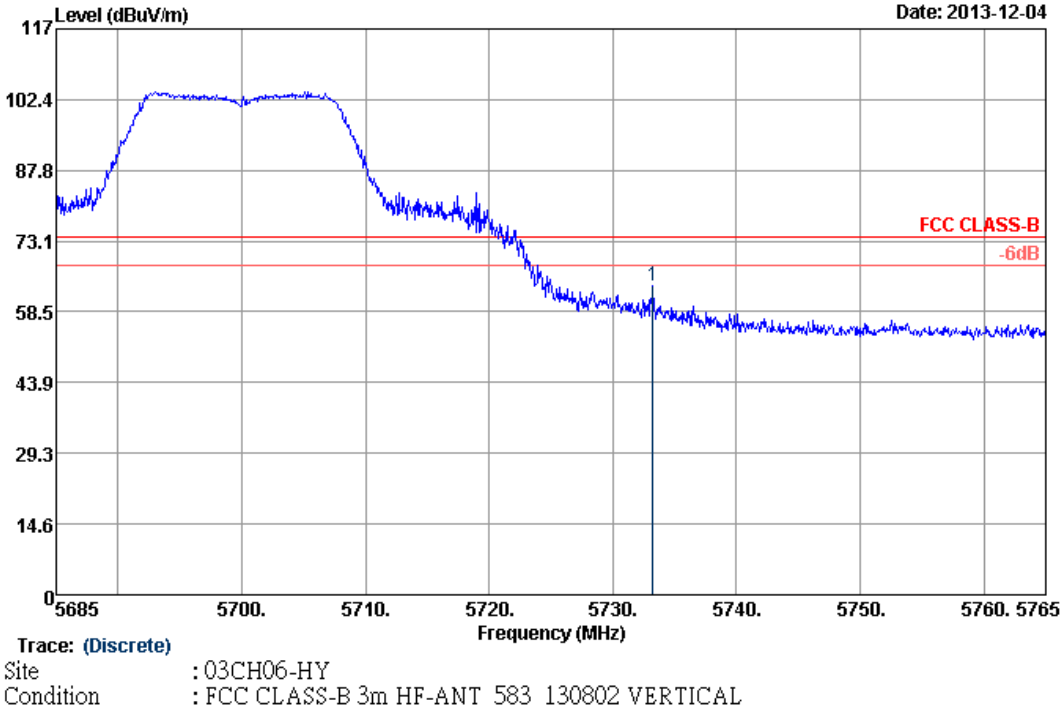


ANTENNA POLARITY : HORIZONTAL

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	50.73	-3.27	54	37.66	35.02	11.34	33.29	100	359	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 :	22~24
Test Band :	High	Relative Humidity :	47~49
Test Channel :	140	Test Engineer :	Marlboro Hsu

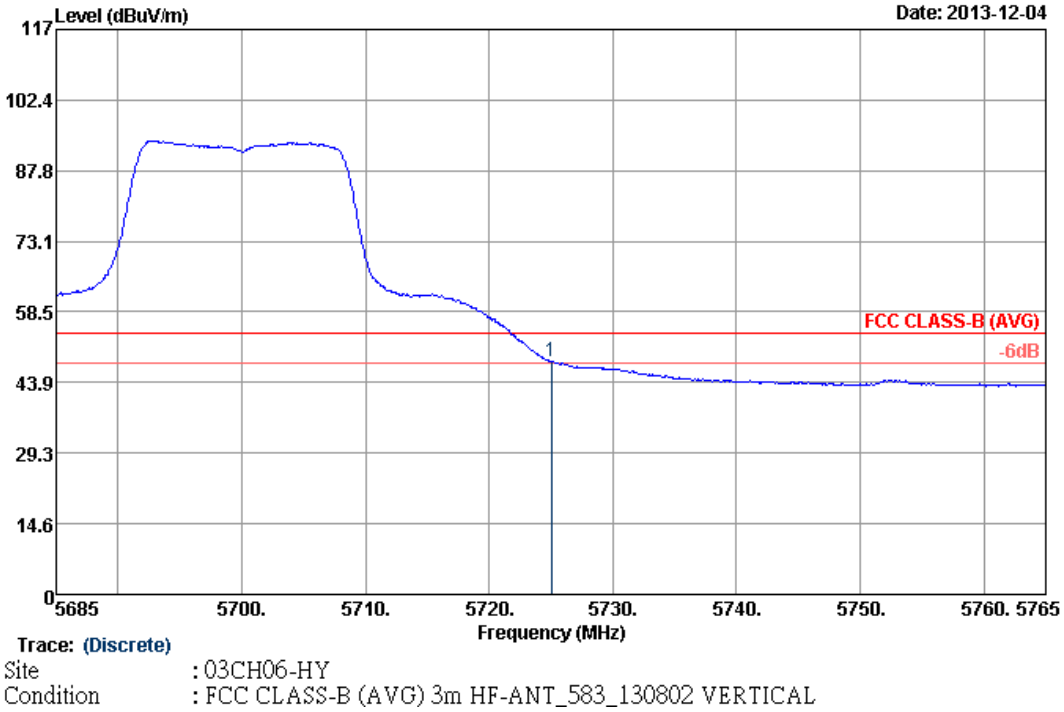


ANTENNA POLARITY : VERTICAL

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
5733.24	63.75	-10.25	74	50.69	35.02	11.34	33.3	100	243	Peak

Note: Worst case measurement on 5733.24 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 :	22~24
Test Band :	High	Relative Humidity :	47~49
Test Channel :	140	Test Engineer :	Marlboro Hsu

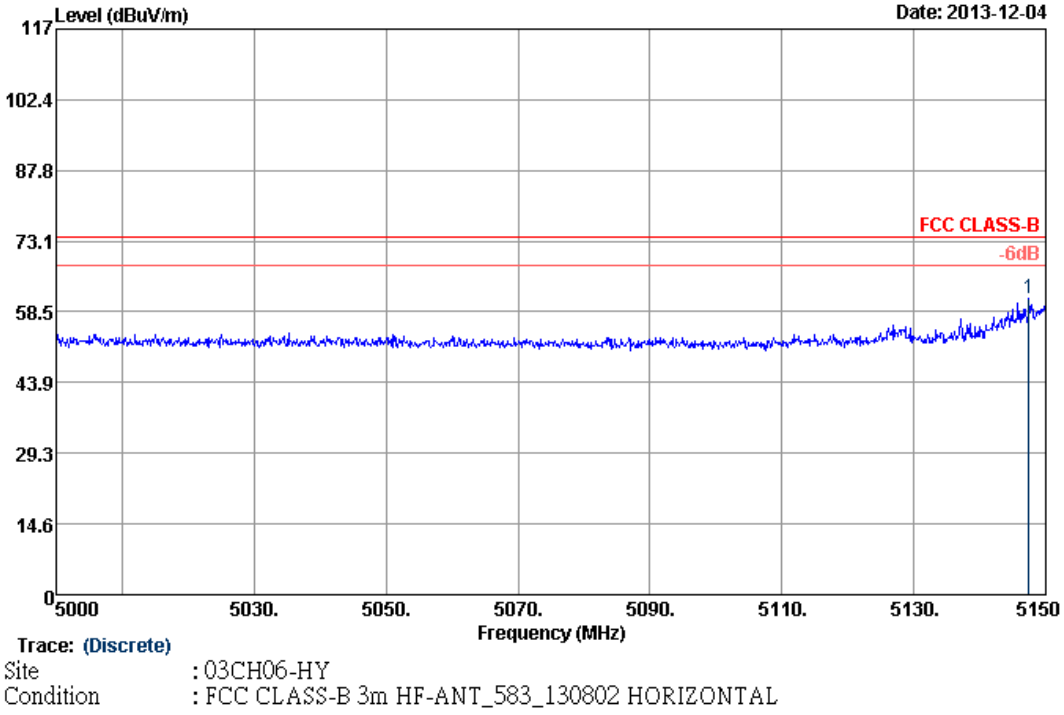


ANTENNA POLARITY : VERTICAL

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	48.2	-5.8	54	35.13	35.02	11.34	33.29	100	243	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 HT20	Temperature :	22~24
Test Band :	Low	Relative Humidity :	47~49
Test Channel :	36	Test Engineer :	Marlboro Hsu

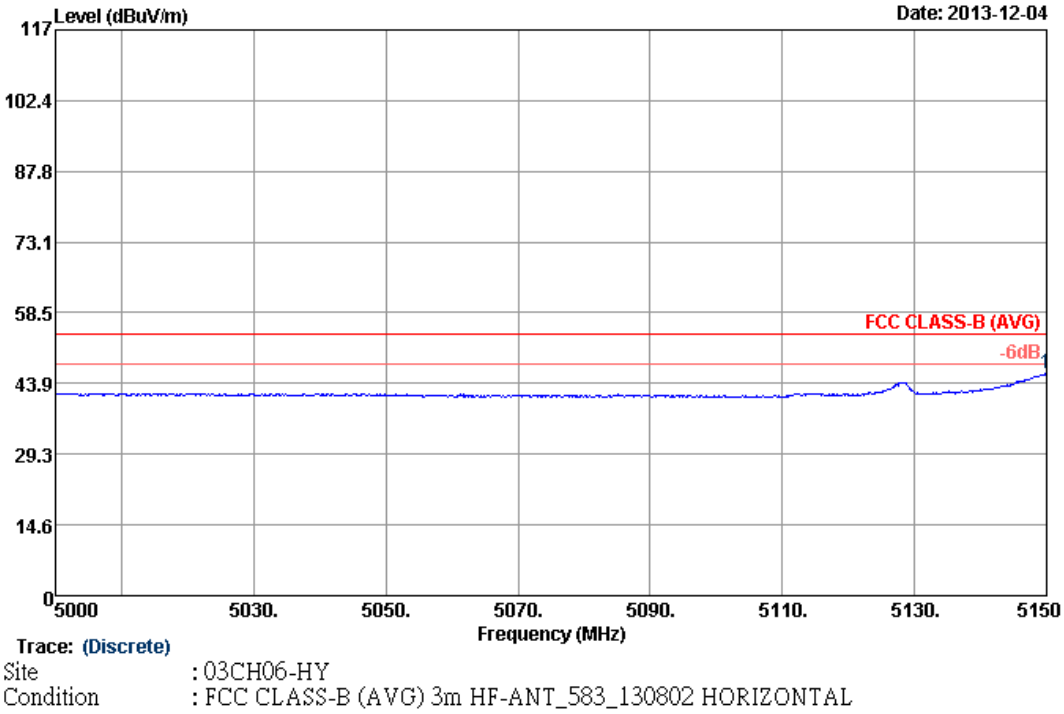


ANTENNA POLARITY : HORIZONTAL

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
5147.45	61.42	-12.58	74	49.88	34.45	10.44	33.35	163	275	Peak

Note: Worst case measurement on 5147.45 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 :	22~24
Test Band :	Low	Relative Humidity :	47~49
Test Channel :	36	Test Engineer :	Marlboro Hsu

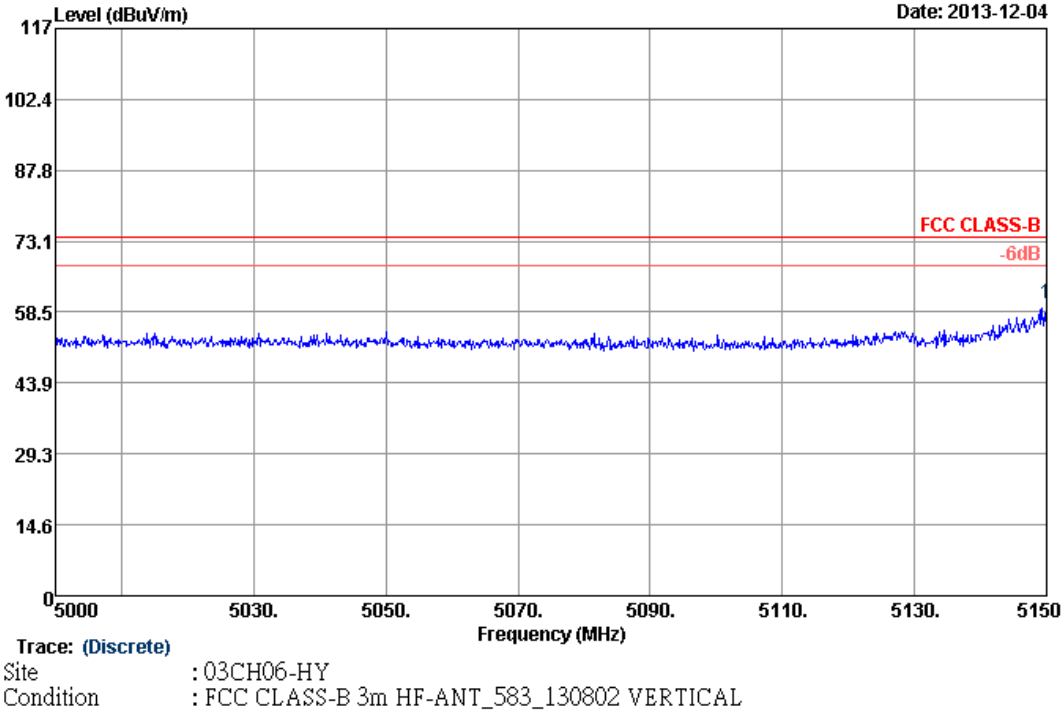


ANTENNA POLARITY : HORIZONTAL

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	45.97	-8.03	54	34.43	34.45	10.44	33.35	163	275	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 :	22~24
Test Band :	Low	Relative Humidity :	47~49
Test Channel :	36	Test Engineer :	Marlboro Hsu

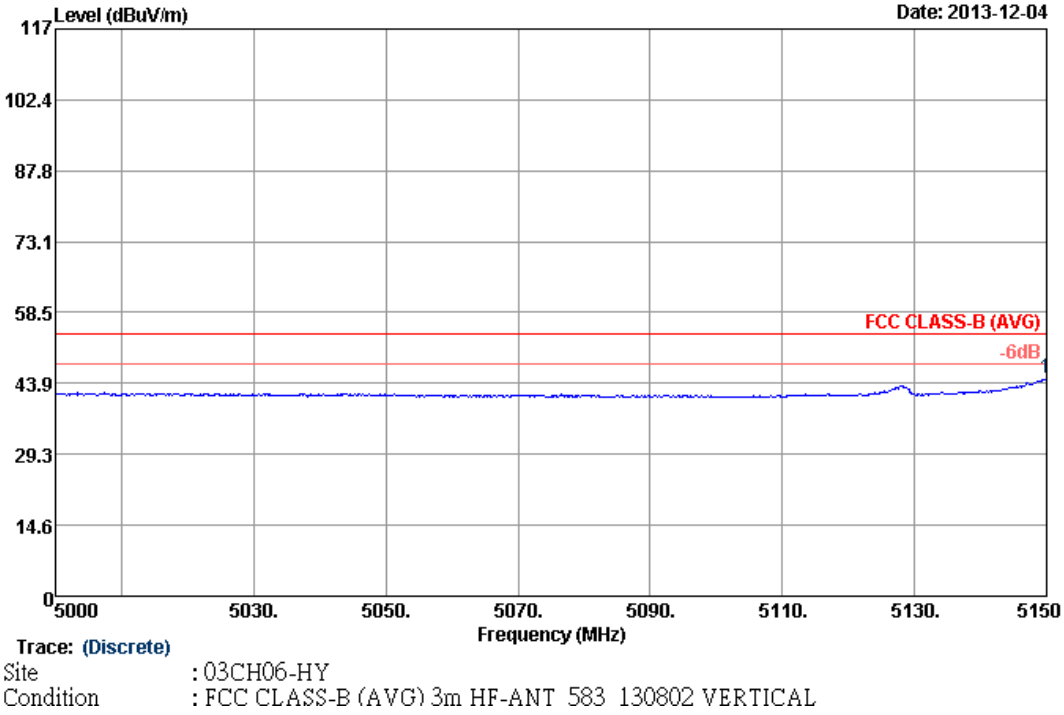


ANTENNA POLARITY : VERTICAL

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	60.15	-13.85	74	48.61	34.45	10.44	33.35	125	360	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 :	22~24
Test Band :	Low	Relative Humidity :	47~49
Test Channel :	36	Test Engineer :	Marlboro Hsu

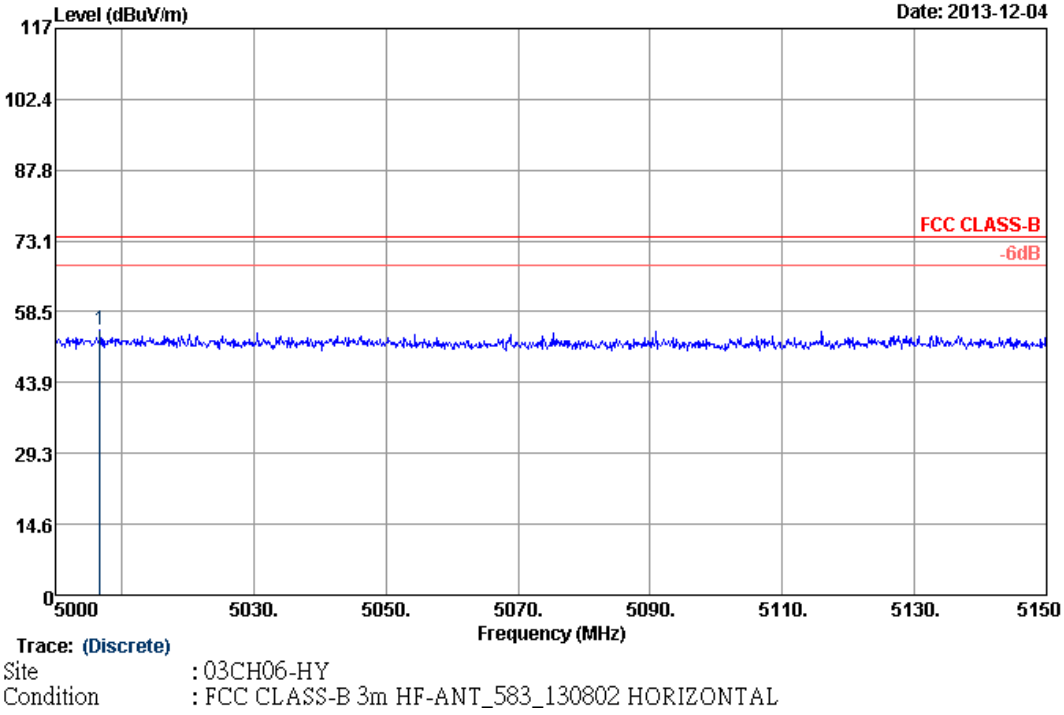


ANTENNA POLARITY : VERTICAL

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	44.84	-9.16	54	33.3	34.45	10.44	33.35	125	360	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 :	22~24
Test Band :	High	Relative Humidity :	47~49
Test Channel :	48	Test Engineer :	Marlboro Hsu

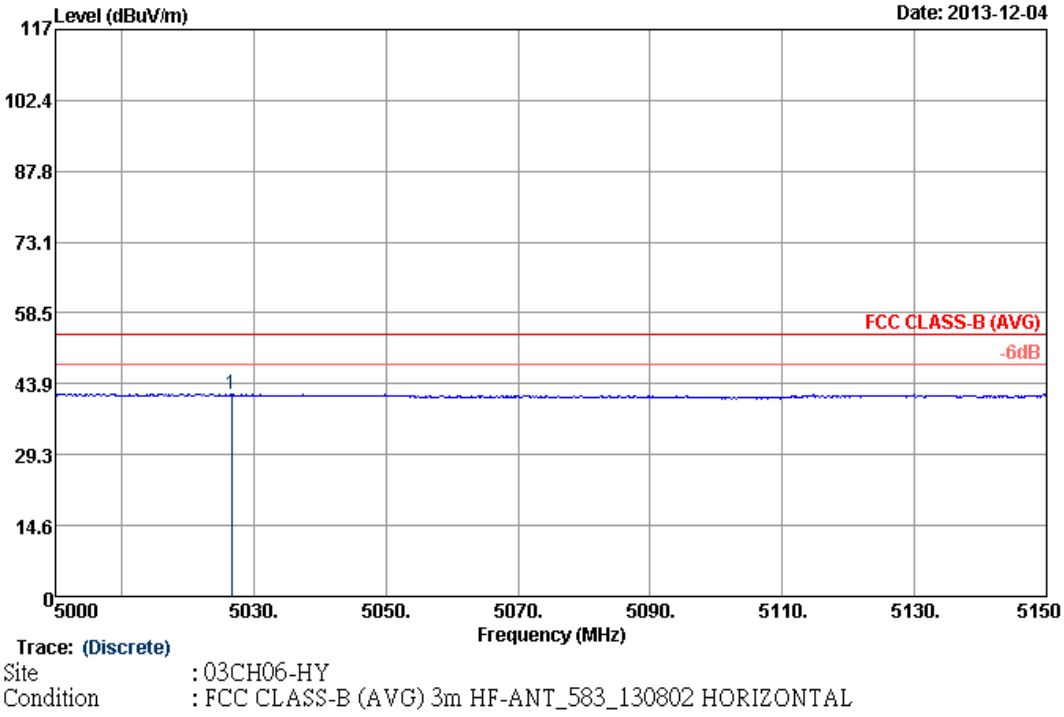


ANTENNA POLARITY : HORIZONTAL

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
5006.75	54.72	-19.28	74	43.59	34.32	10.23	33.42	146	310	Peak

Note: Worst case measurement on 5006.75 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 :	22~24
Test Band :	High	Relative Humidity :	47~49
Test Channel :	48	Test Engineer :	Marlboro Hsu

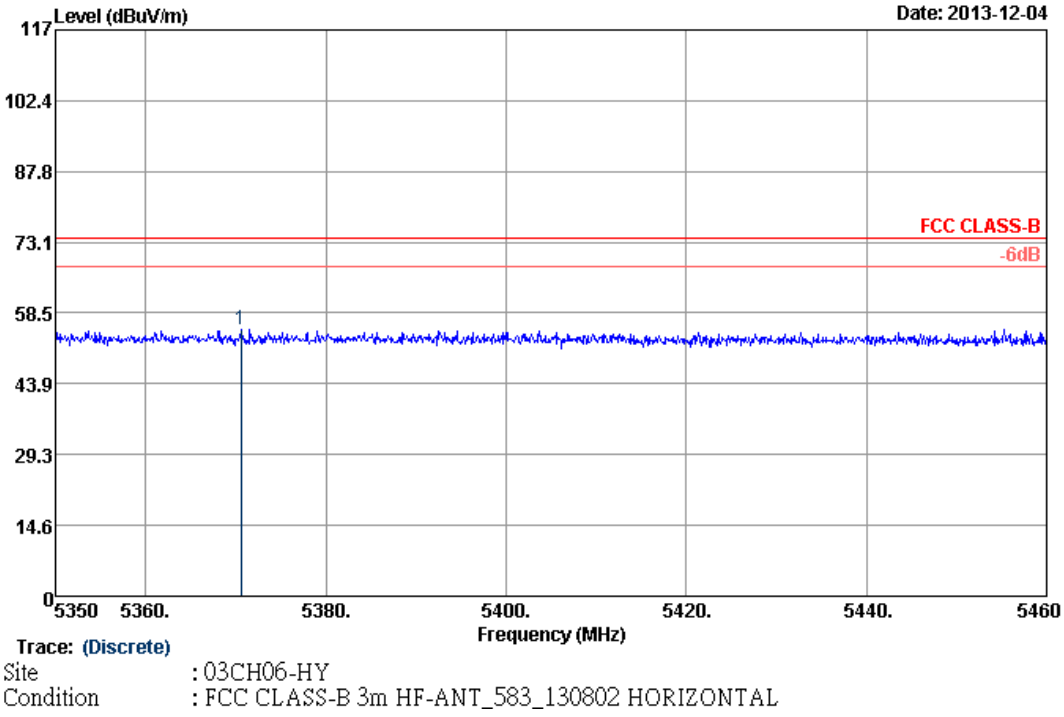


ANTENNA POLARITY : HORIZONTAL

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
5026.7	41.82	-12.18	54	30.64	34.33	10.26	33.41	146	310	Average

Note: Worst case measurement on 5026.7 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 HT20	Temperature :	22~24
Test Band :	High	Relative Humidity :	47~49
Test Channel :	48	Test Engineer :	Marlboro Hsu

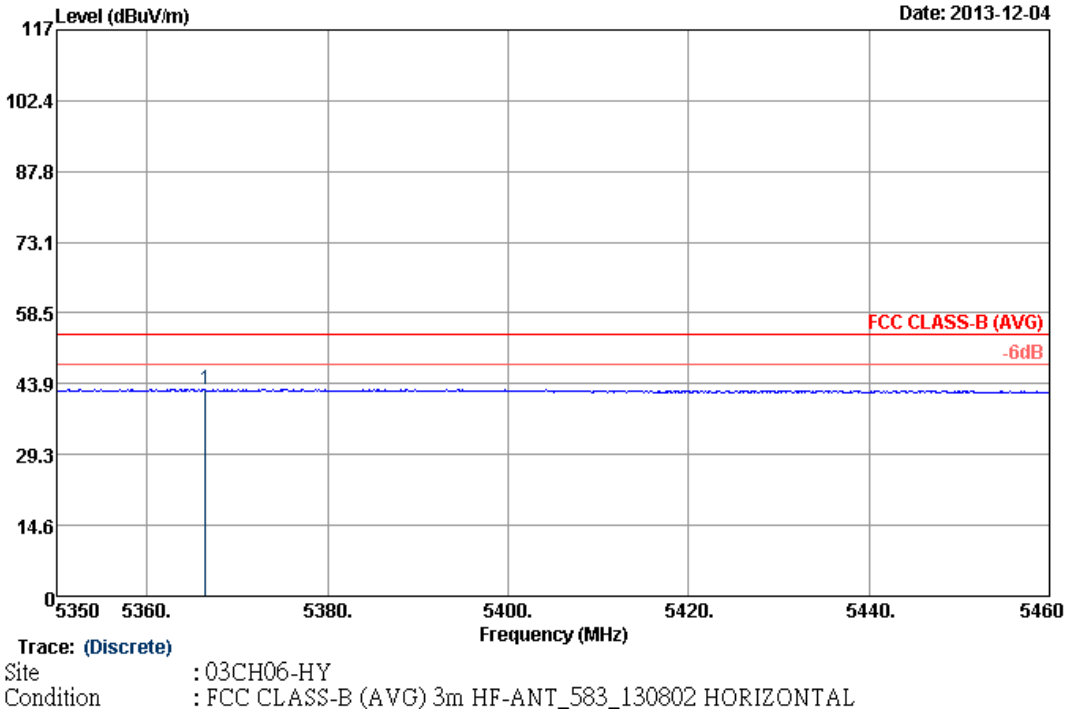


ANTENNA POLARITY : HORIZONTAL

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
5370.57	55.23	-18.77	74	43.08	34.67	10.75	33.27	146	310	Peak

Note: Worst case measurement on 5370.57 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 :	22~24
Test Band :	High	Relative Humidity :	47~49
Test Channel :	48	Test Engineer :	Marlboro Hsu

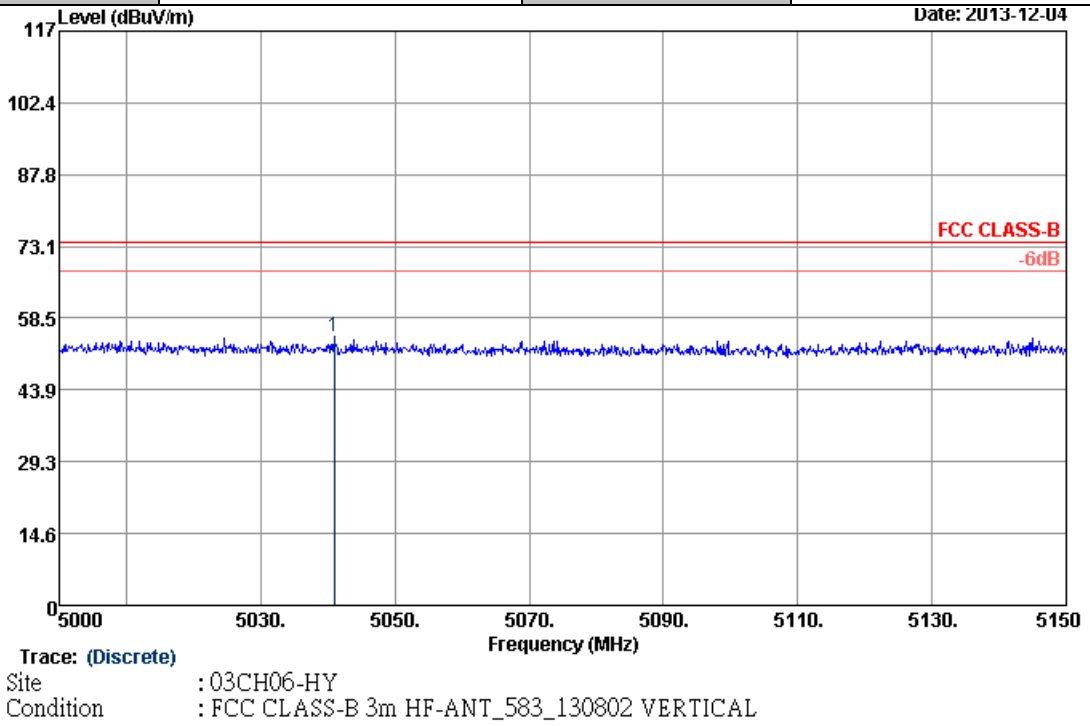


ANTENNA POLARITY : HORIZONTAL

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
5366.5	42.81	-11.19	54	30.66	34.67	10.75	33.27	146	310	Average

Note: Worst case measurement on 5366.5 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 :	22~24
Test Band :	High	Relative Humidity :	47~49
Test Channel :	48	Test Engineer :	Marlboro Hsu

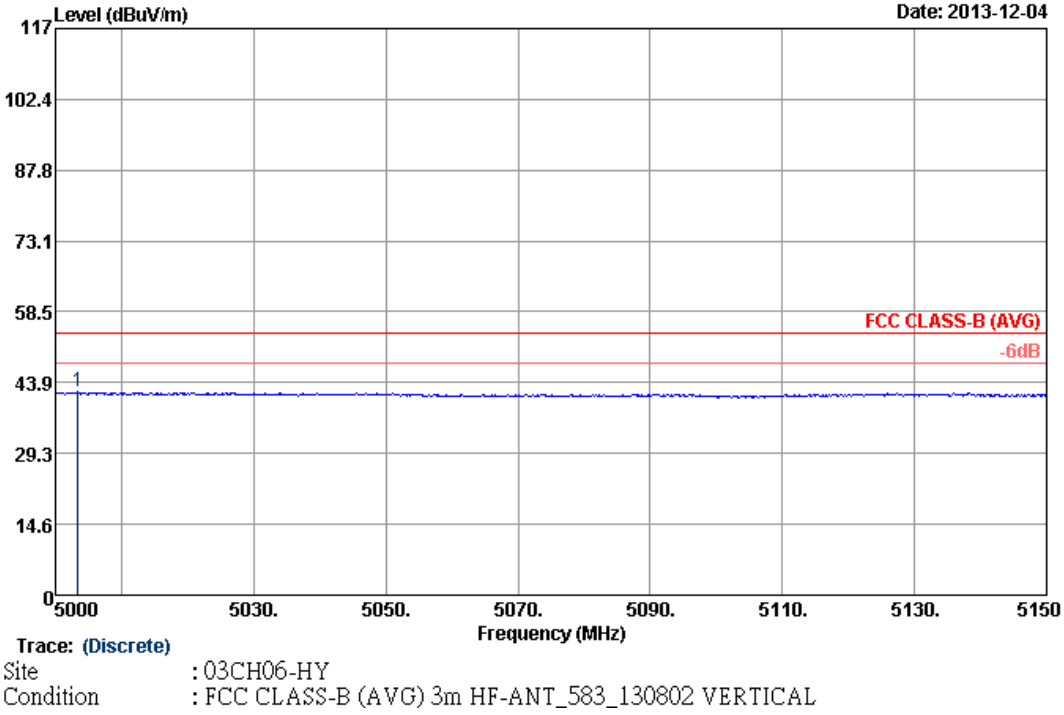


ANTENNA POLARITY : VERTICAL

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
5040.95	54.65	-19.35	74	43.45	34.35	10.26	33.41	100	347	Peak

Note: Worst case measurement on 5040.95 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 HT20	Temperature :	22~24
Test Band :	High	Relative Humidity :	47~49
Test Channel :	48	Test Engineer :	Marlboro Hsu

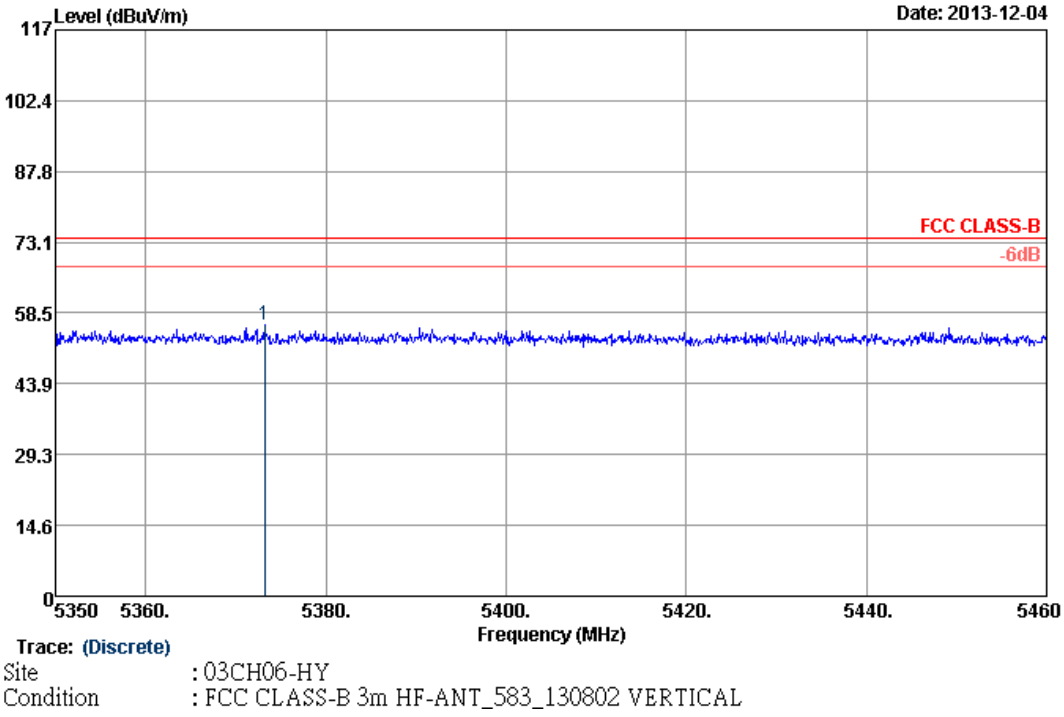


ANTENNA POLARITY : VERTICAL

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
5003.45	41.88	-12.12	54	30.77	34.3	10.23	33.42	100	347	Average

Note: Worst case measurement on 5003.45 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 :	22~24
Test Band :	High	Relative Humidity :	47~49
Test Channel :	48	Test Engineer :	Marlboro Hsu

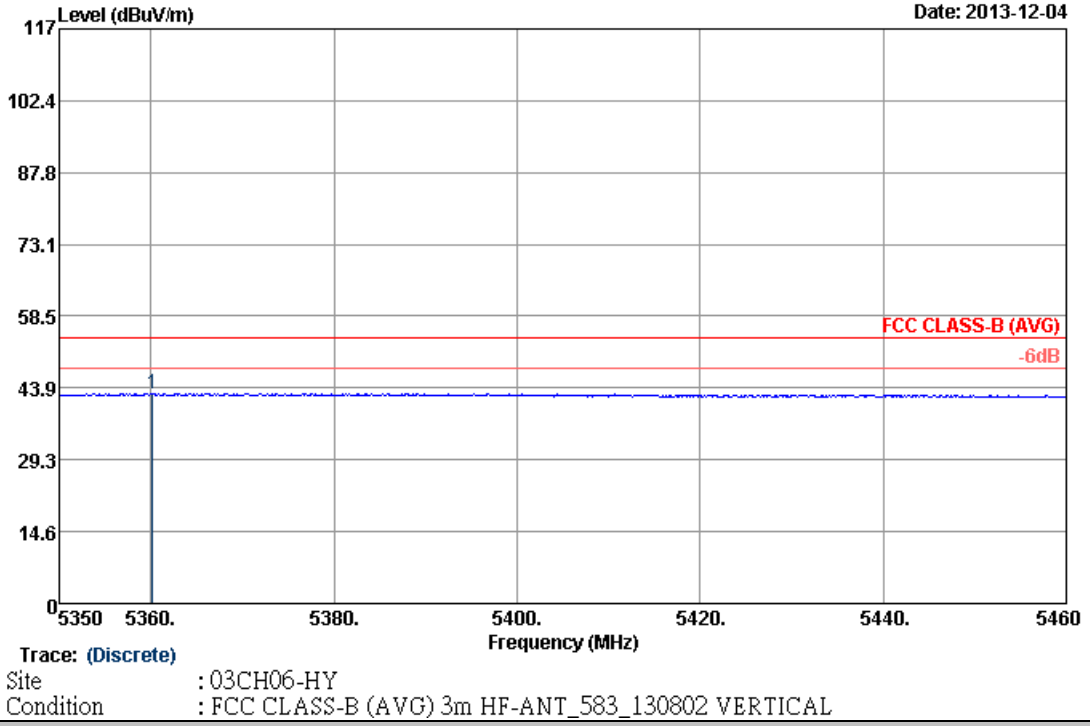


ANTENNA POLARITY : VERTICAL

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
5373.21	56.07	-17.93	74	43.92	34.67	10.75	33.27	100	347	Peak

Note: Worst case measurement on 5373.21 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 :	22~24
Test Band :	High	Relative Humidity :	47~49
Test Channel :	48	Test Engineer :	Marlboro Hsu

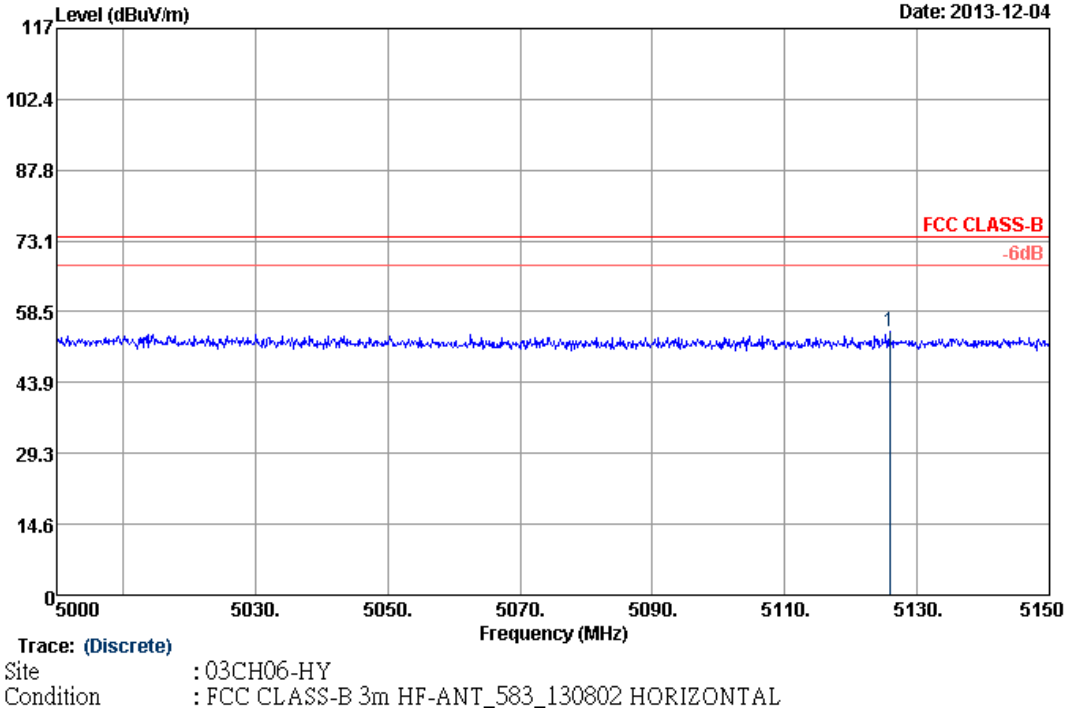


ANTENNA POLARITY : VERTICAL

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
5360.23	42.85	-11.15	54	30.72	34.65	10.75	33.27	100	347	Average

Note: Worst case measurement on 5360.23 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 HT20	Temperature :	22~24
Test Band :	Low	Relative Humidity :	47~49
Test Channel :	52	Test Engineer :	Marlboro Hsu

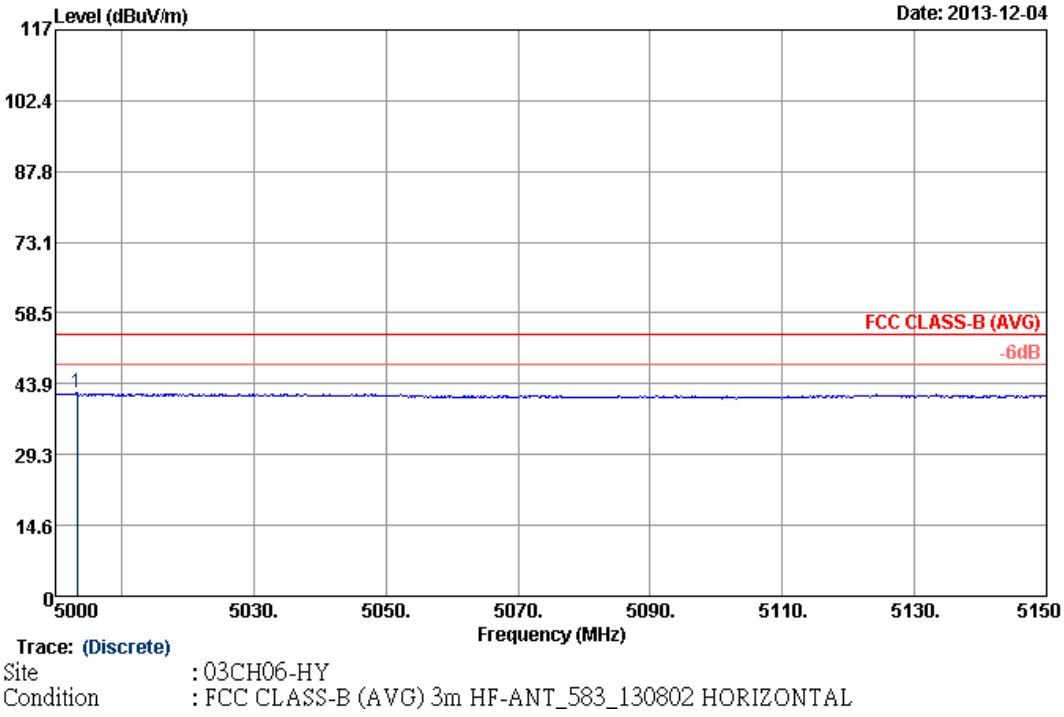


ANTENNA POLARITY : HORIZONTAL

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
5125.85	54.36	-19.64	74	42.89	34.43	10.4	33.36	100	274	Peak

Note: Worst case measurement on 5125.85 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 :	22~24
Test Band :	Low	Relative Humidity :	47~49
Test Channel :	52	Test Engineer :	Marlboro Hsu

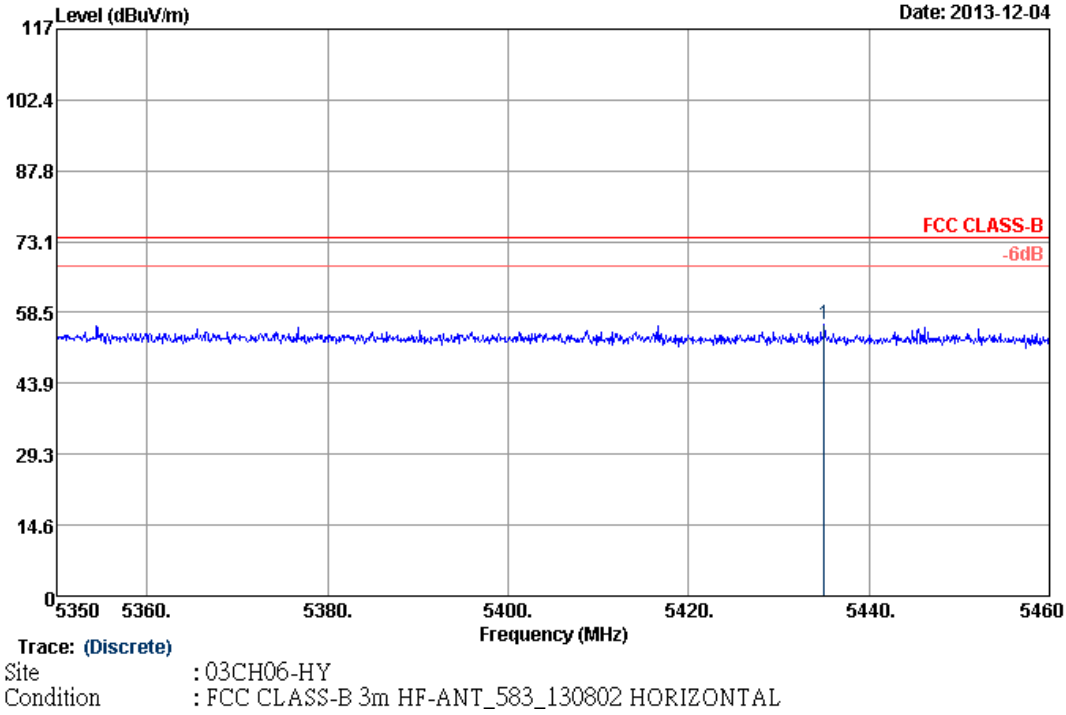


ANTENNA POLARITY : HORIZONTAL

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
5003.3	41.98	-12.02	54	30.87	34.3	10.23	33.42	100	274	Average

Note: Worst case measurement on 5003.3 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 :	22~24
Test Band :	Low	Relative Humidity :	47~49
Test Channel :	52	Test Engineer :	Marlboro Hsu

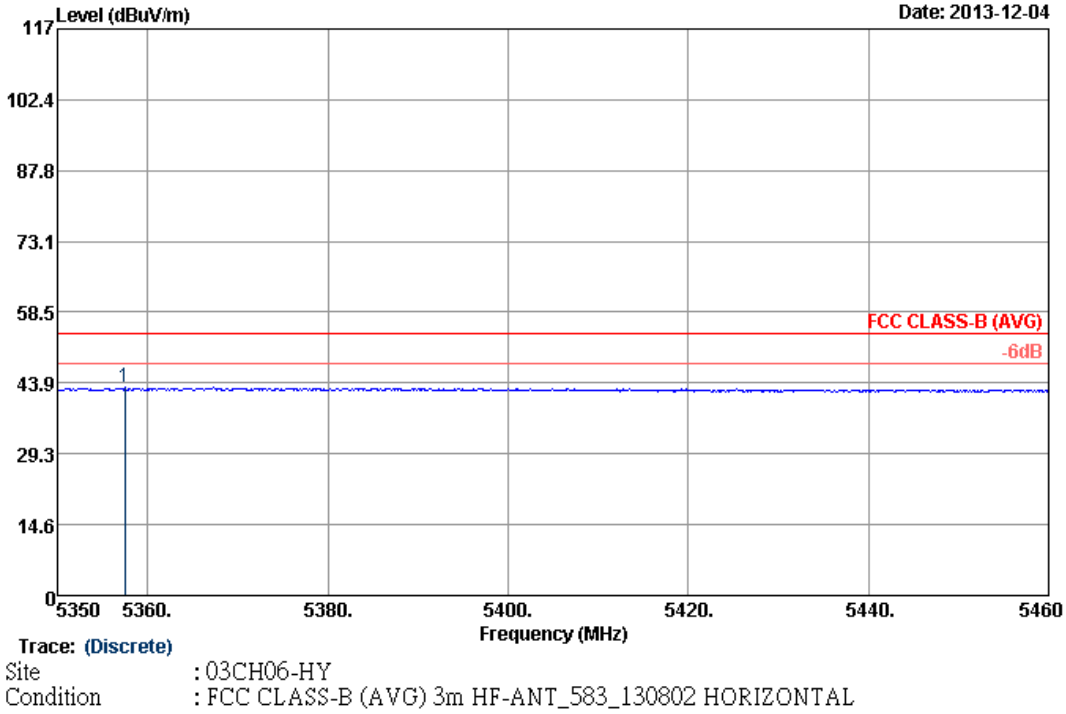


ANTENNA POLARITY : HORIZONTAL

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
5435.03	56.02	-17.98	74	43.66	34.73	10.86	33.23	100	274	Peak

Note: Worst case measurement on 5435.03 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 :	22~24
Test Band :	Low	Relative Humidity :	47~49
Test Channel :	52	Test Engineer :	Marlboro Hsu

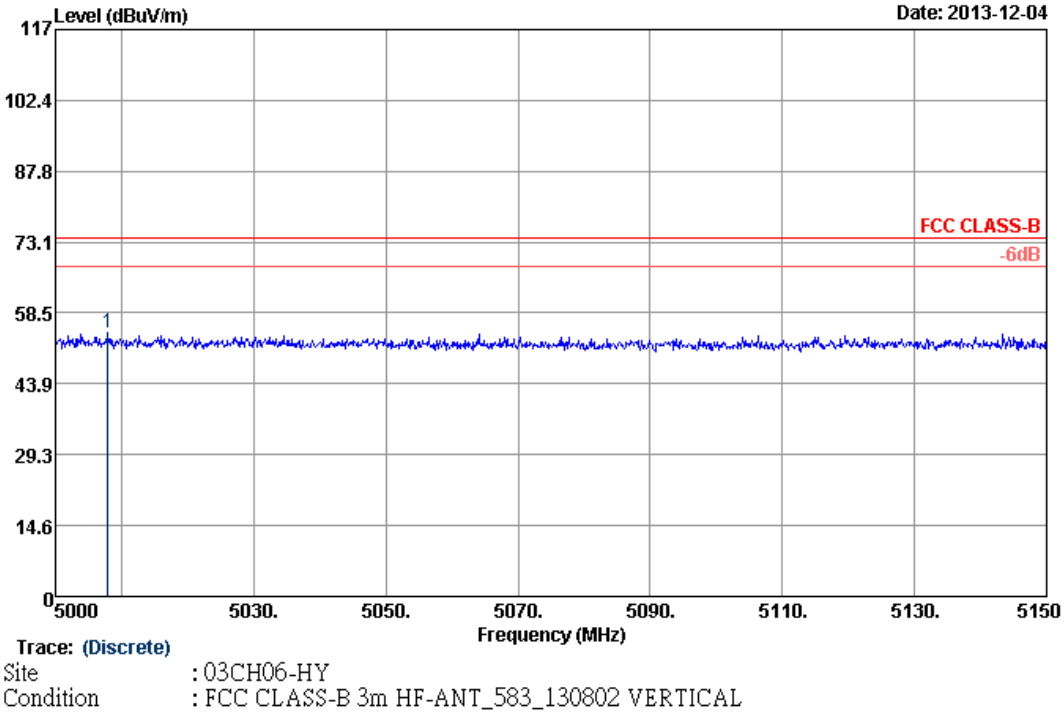


ANTENNA POLARITY : HORIZONTAL

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
5357.48	42.92	-11.08	54	30.79	34.65	10.75	33.27	100	274	Average

Note: Worst case measurement on 5357.48 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 :	22~24
Test Band :	Low	Relative Humidity :	47~49
Test Channel :	52	Test Engineer :	Marlboro Hsu

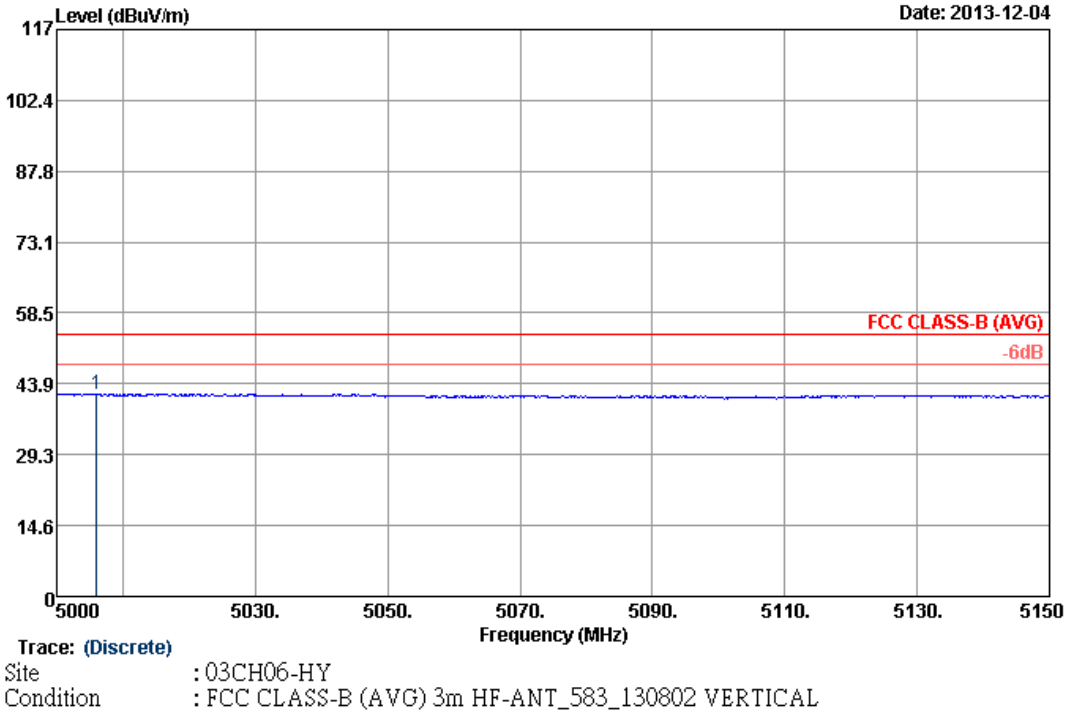


ANTENNA POLARITY : VERTICAL

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
5007.95	54.39	-19.61	74	43.26	34.32	10.23	33.42	100	318	Peak

Note: Worst case measurement on 5007.95 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 HT20	Temperature :	22~24
Test Band :	Low	Relative Humidity :	47~49
Test Channel :	52	Test Engineer :	Marlboro Hsu

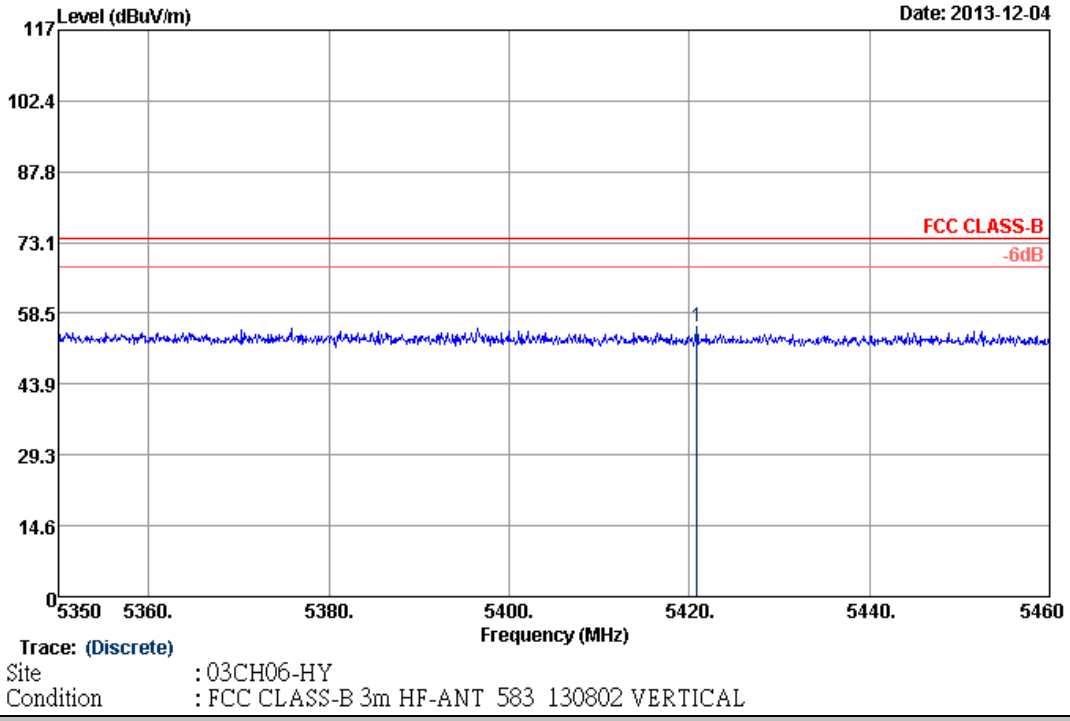


ANTENNA POLARITY : VERTICAL

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
5006	41.83	-12.17	54	30.7	34.32	10.23	33.42	100	318	Average

Note: Worst case measurement on 5006 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 :	22~24
Test Band :	Low	Relative Humidity :	47~49
Test Channel :	52	Test Engineer :	Marlboro Hsu

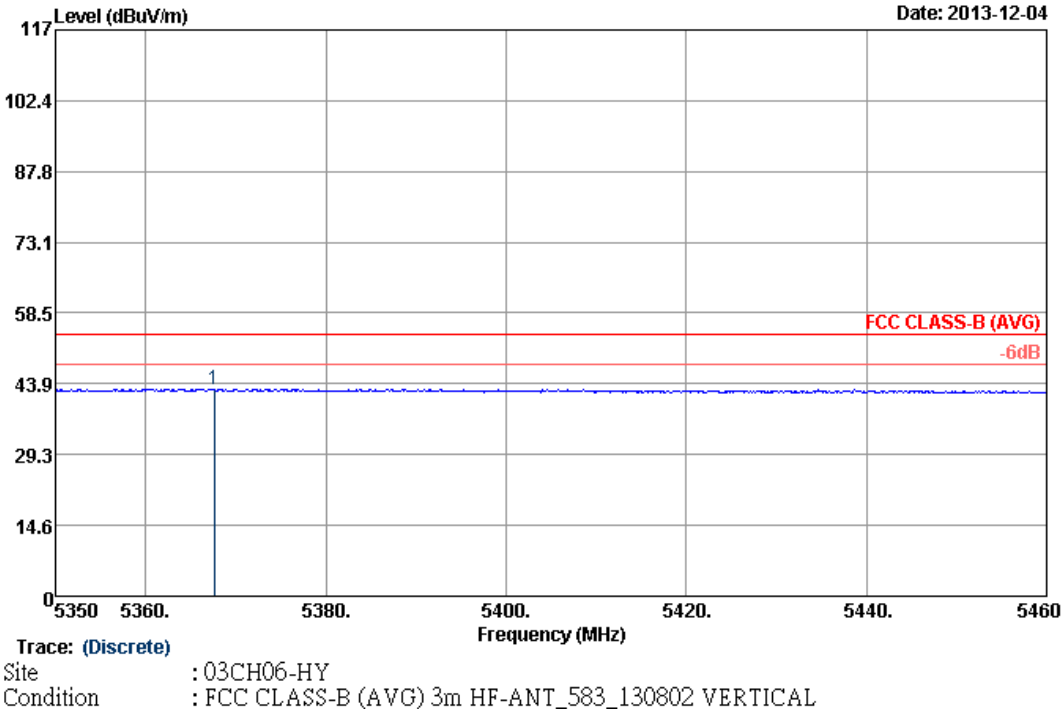


ANTENNA POLARITY : VERTICAL

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
5420.84	55.65	-18.35	74	43.35	34.72	10.82	33.24	100	318	Peak

Note: Worst case measurement on 5420.84 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 :	22~24
Test Band :	Low	Relative Humidity :	47~49
Test Channel :	52	Test Engineer :	Marlboro Hsu

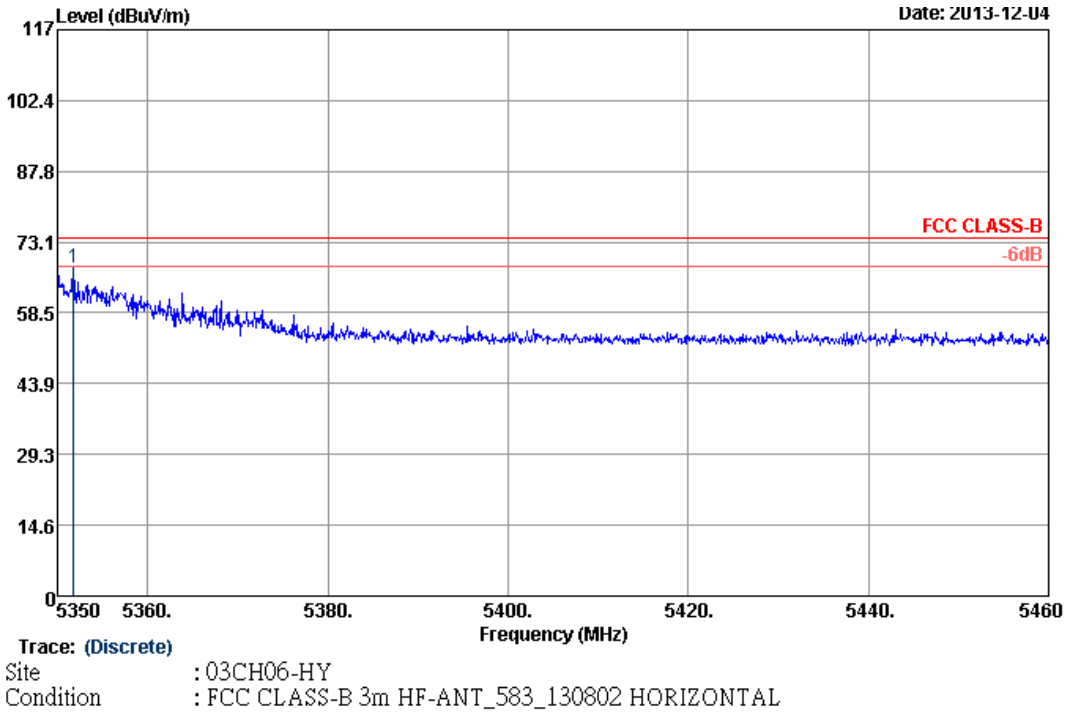


ANTENNA POLARITY : VERTICAL

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
5367.6	42.77	-11.23	54	30.62	34.67	10.75	33.27	100	318	Average

Note: Worst case measurement on 5367.6 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 :	22~24
Test Band :	High	Relative Humidity :	47~49
Test Channel :	64	Test Engineer :	Marlboro Hsu

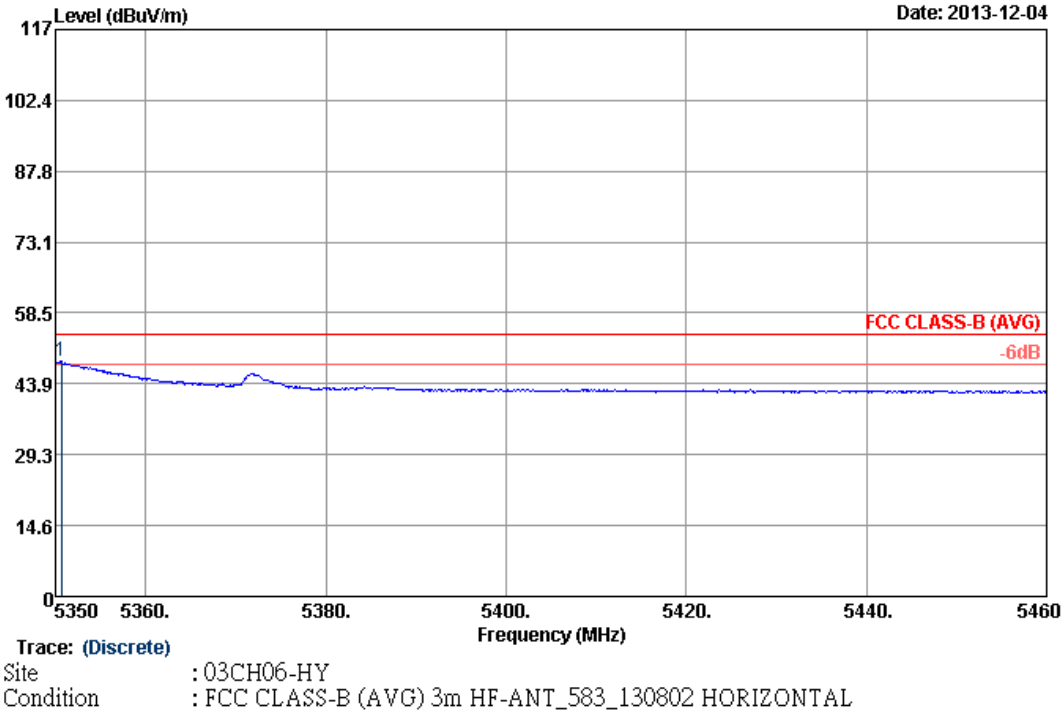


ANTENNA POLARITY : HORIZONTAL

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
5351.76	67.93	-6.07	74	55.83	34.65	10.72	33.27	100	276	Peak

Note: Worst case measurement on 5351.76 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 :	22~24
Test Band :	High	Relative Humidity :	47~49
Test Channel :	64	Test Engineer :	Marlboro Hsu

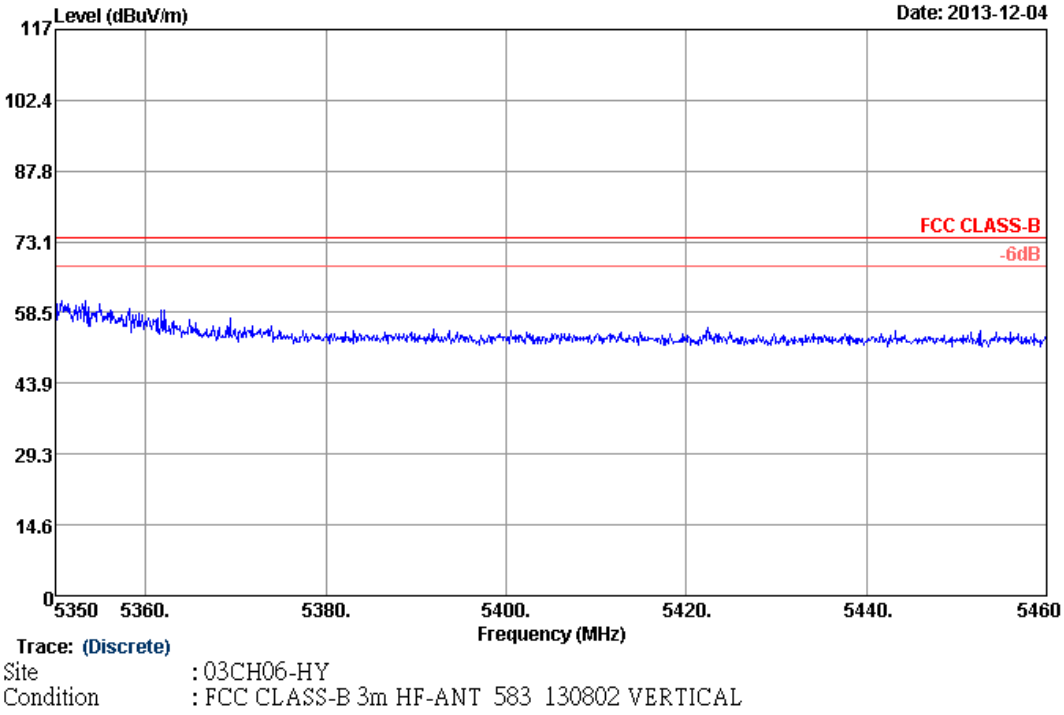


ANTENNA POLARITY : HORIZONTAL

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
5350.66	48.52	-5.48	54	36.42	34.65	10.72	33.27	100	276	Average

Note: Worst case measurement on 5350.66 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 :	802.11n HT20	Temperature :	22~24
Test Band :	High	Relative Humidity :	47~49
Test Channel :	64	Test Engineer :	Marlboro Hsu

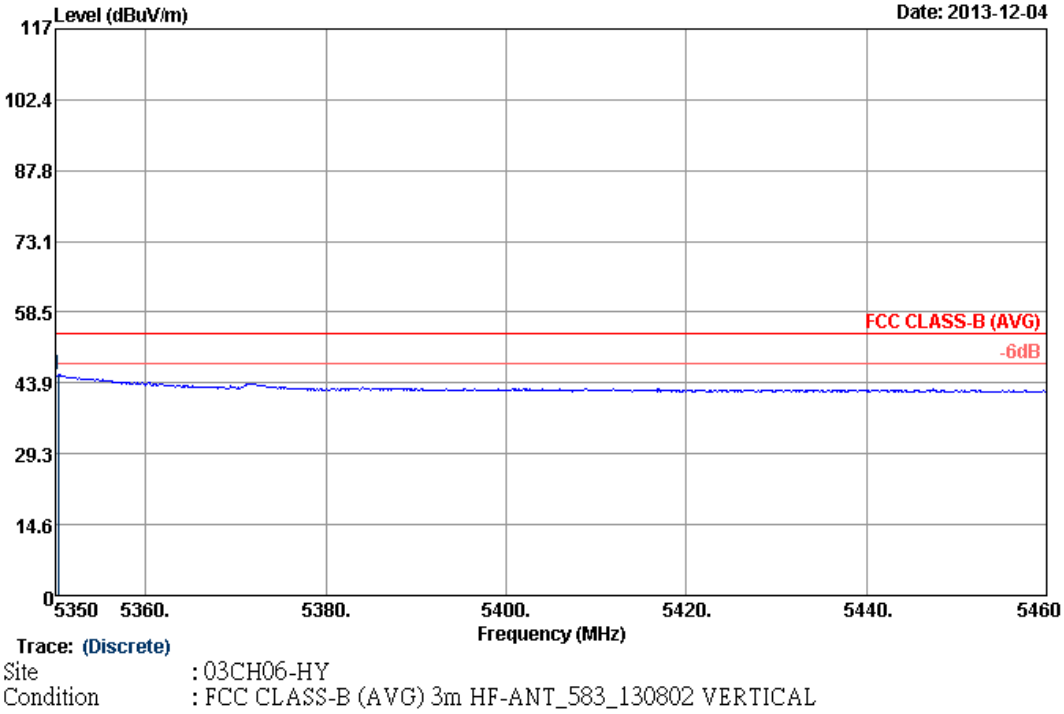


ANTENNA POLARITY : VERTICAL

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	62.39	-11.61	74	50.29	34.65	10.72	33.27	100	109	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 :	22~24
Test Band :	High	Relative Humidity :	47~49
Test Channel :	64	Test Engineer :	Marlboro Hsu

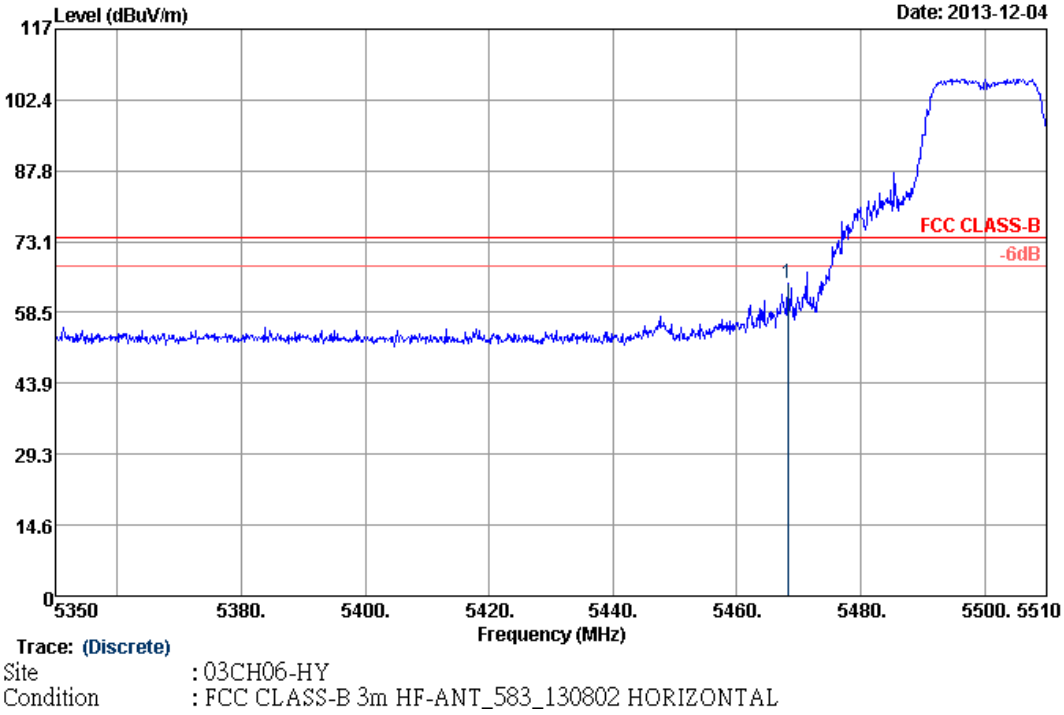


ANTENNA POLARITY : VERTICAL

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
5350.33	45.6	-8.4	54	33.5	34.65	10.72	33.27	100	109	Average

Note: Worst case measurement on 5350.33 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 :	22~24
Test Band :	Low	Relative Humidity :	47~49
Test Channel :	100	Test Engineer :	Marlboro Hsu

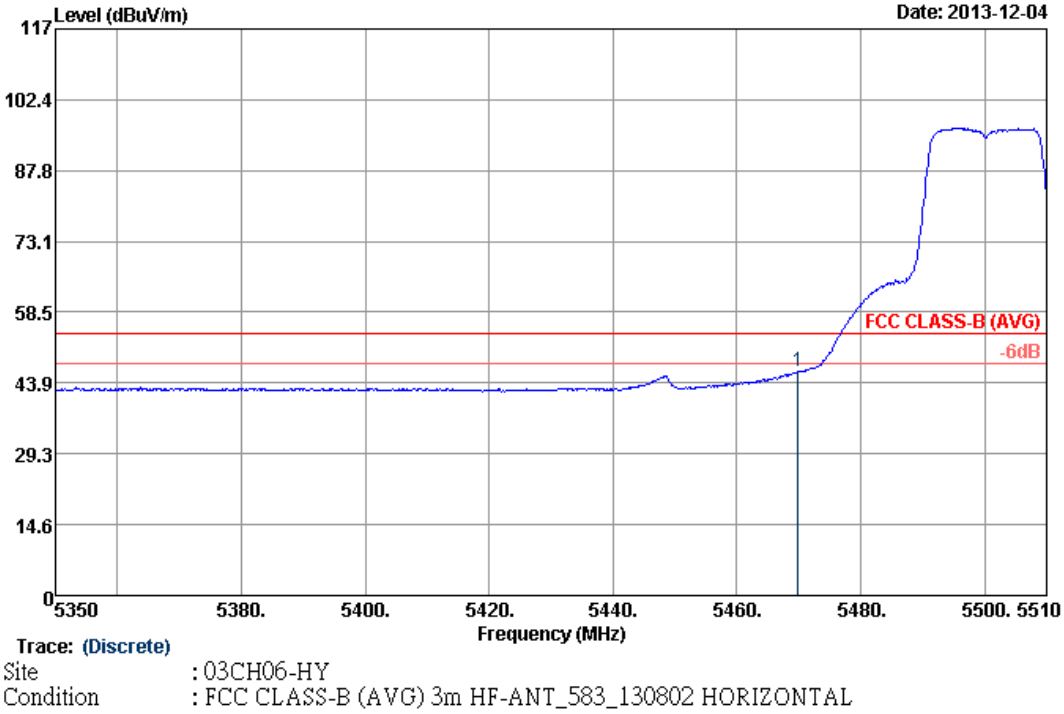


ANTENNA POLARITY : HORIZONTAL

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
5468.24	64.59	-9.41	74	52.15	34.77	10.89	33.22	100	352	Peak

Note: Worst case measurement on 5468.24 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 :	22~24
Test Band :	Low	Relative Humidity :	47~49
Test Channel :	100	Test Engineer :	Marlboro Hsu

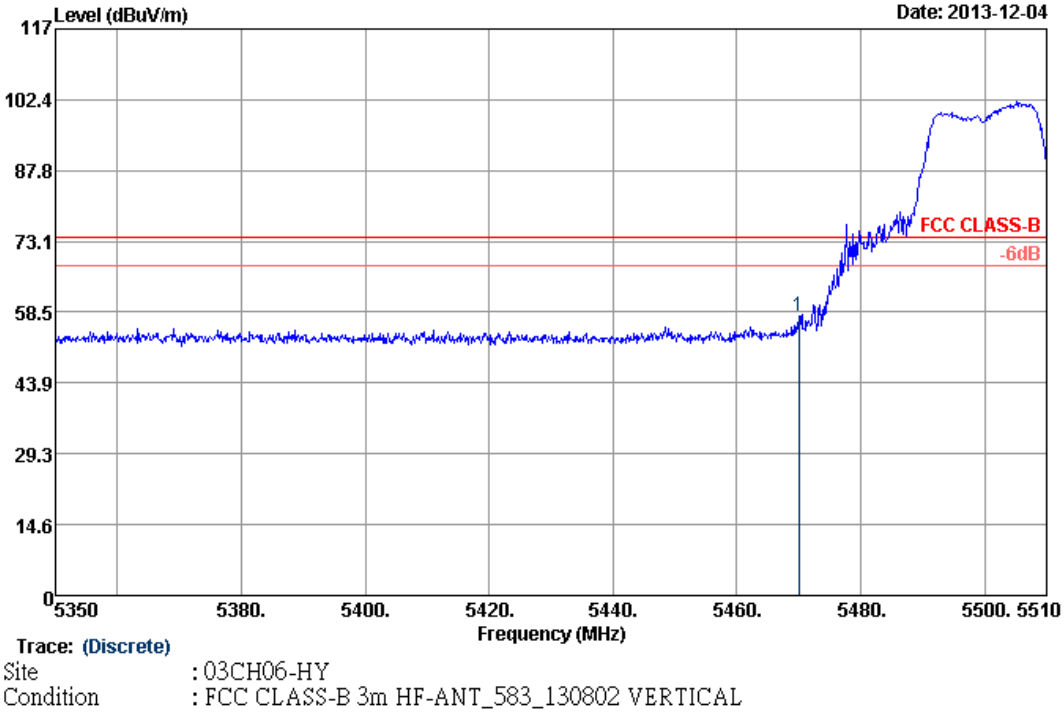


ANTENNA POLARITY : HORIZONTAL

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	46.27	-7.73	54	33.83	34.77	10.89	33.22	100	352	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 :	22~24
Test Band :	Low	Relative Humidity :	47~49
Test Channel :	100	Test Engineer :	Marlboro Hsu

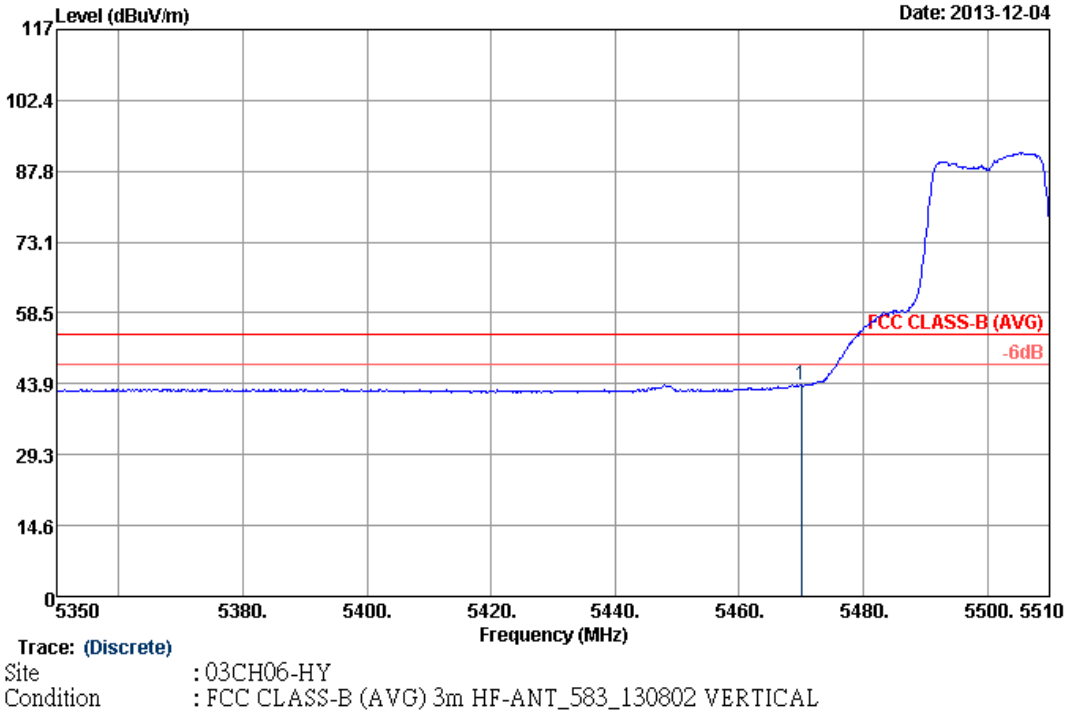


ANTENNA POLARITY : VERTICAL

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	57.63	-16.37	74	45.19	34.77	10.89	33.22	114	240	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 :	22~24
Test Band :	Low	Relative Humidity :	47~49
Test Channel :	100	Test Engineer :	Marlboro Hsu

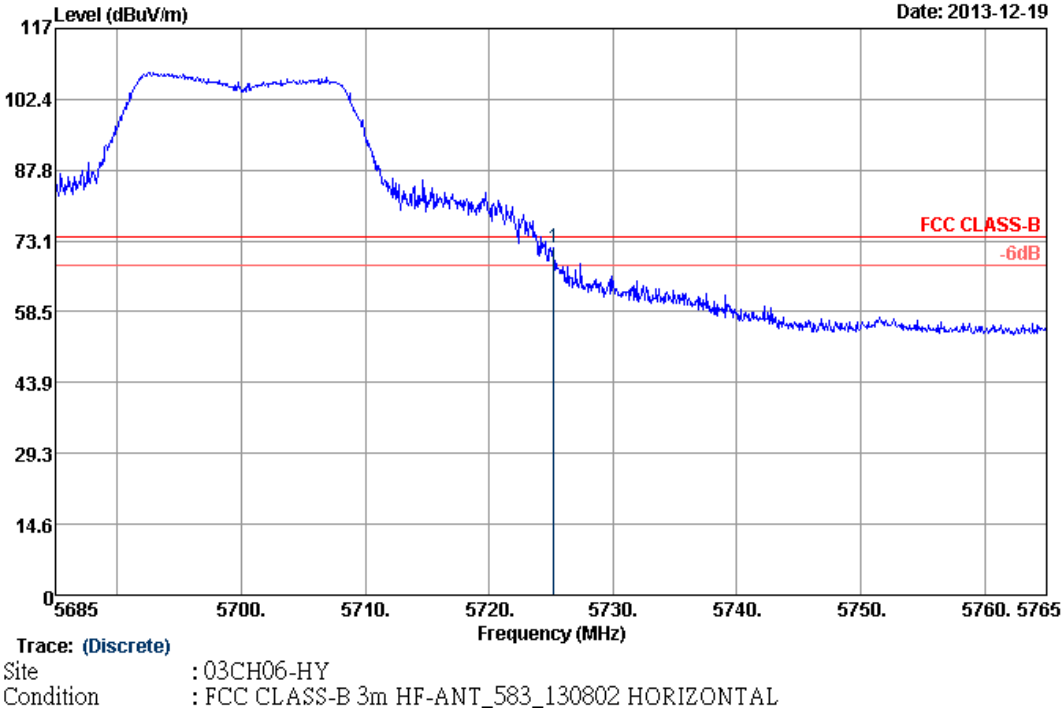


ANTENNA POLARITY : VERTICAL

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	43.65	-10.35	54	31.21	34.77	10.89	33.22	114	240	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 HT20	Temperature :	22~24
Test Band :	High	Relative Humidity :	47~49
Test Channel :	140	Test Engineer :	Marlboro Hsu

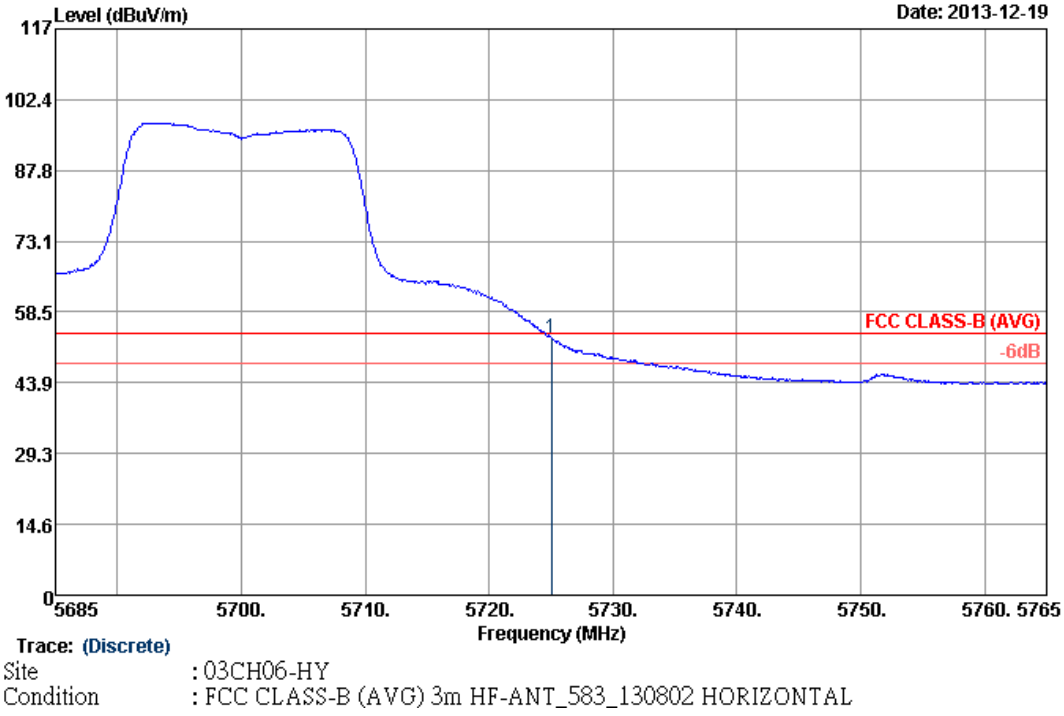


ANTENNA POLARITY : HORIZONTAL

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
5725.24	71.86	-2.14	74	58.79	35.02	11.34	33.29	100	356	Peak

Note: Worst case measurement on 5725.24 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 :	22~24
Test Band :	High	Relative Humidity :	47~49
Test Channel :	140	Test Engineer :	Marlboro Hsu

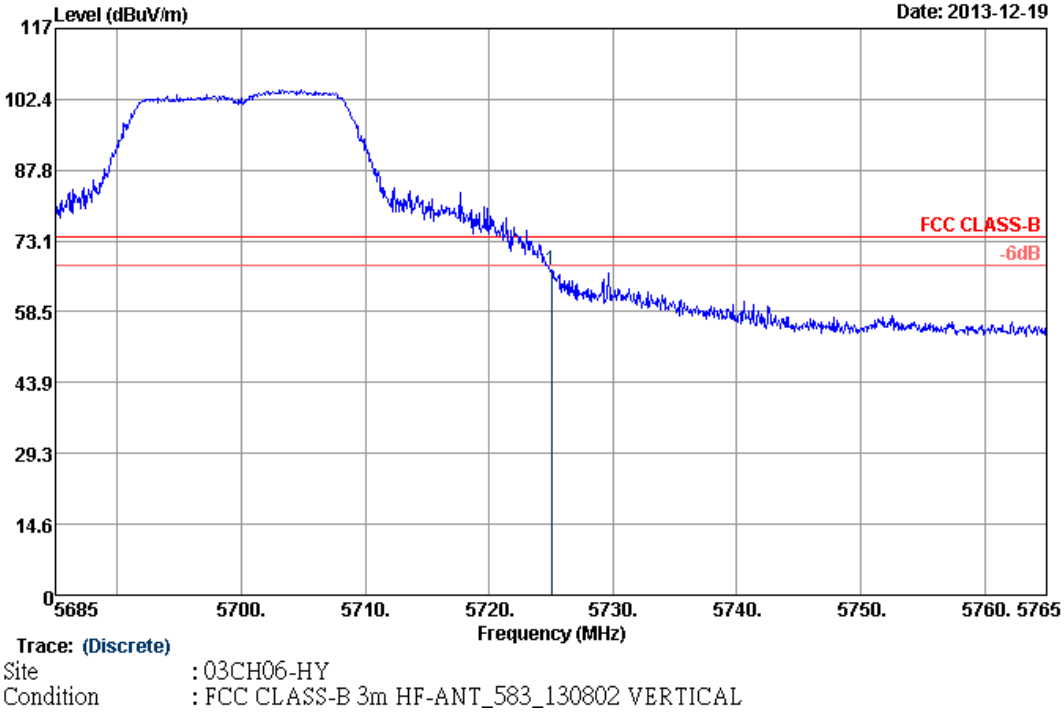


ANTENNA POLARITY : HORIZONTAL

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	53.26	-0.74	54	40.19	35.02	11.34	33.29	100	356	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 HT20	Temperature :	22~24
Test Band :	High	Relative Humidity :	47~49
Test Channel :	140	Test Engineer :	Marlboro Hsu

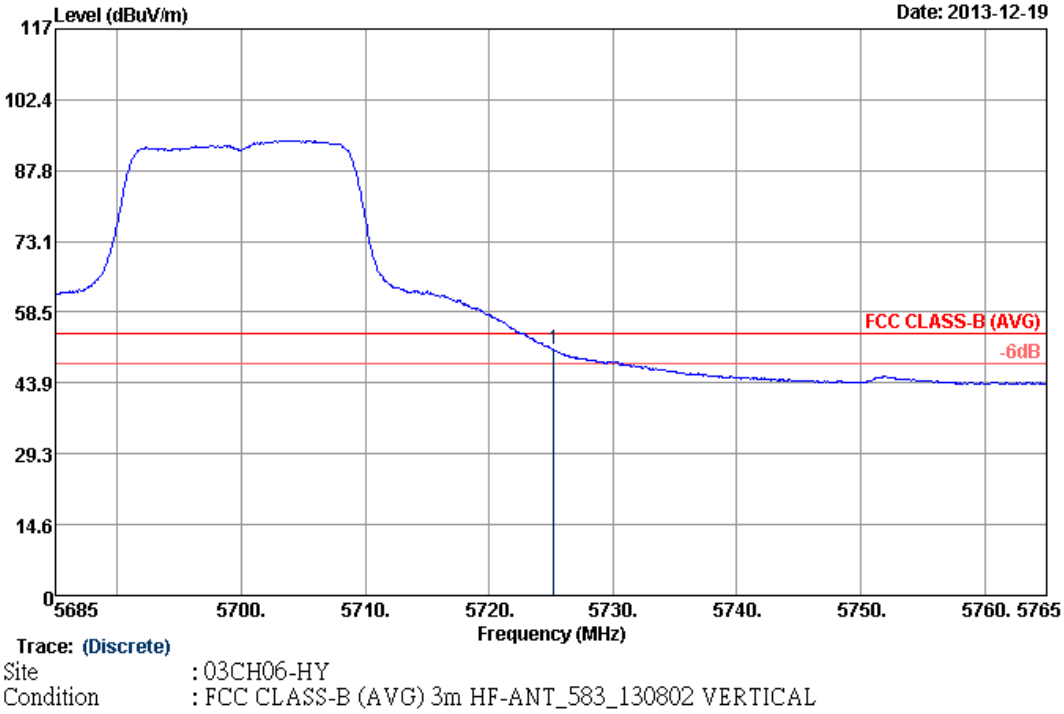


ANTENNA POLARITY : VERTICAL

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	67.2	-6.8	74	54.13	35.02	11.34	33.29	100	330	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 :	22~24
Test Band :	High	Relative Humidity :	47~49
Test Channel :	140	Test Engineer :	Marlboro Hsu

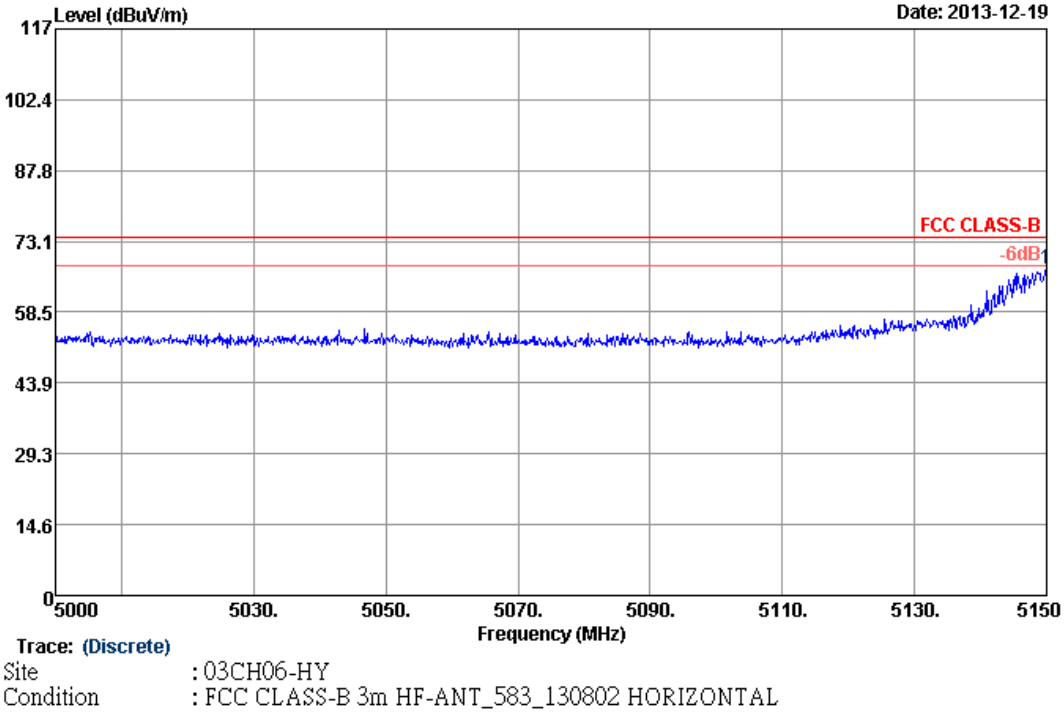


ANTENNA POLARITY : VERTICAL

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
5725.24	50.78	-3.22	54	37.71	35.02	11.34	33.29	100	330	Average

Note: Worst case measurement on 5725.24 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 :	22~24
Test Band :	Low	Relative Humidity :	47~49
Test Channel :	38	Test Engineer :	Marlboro Hsu

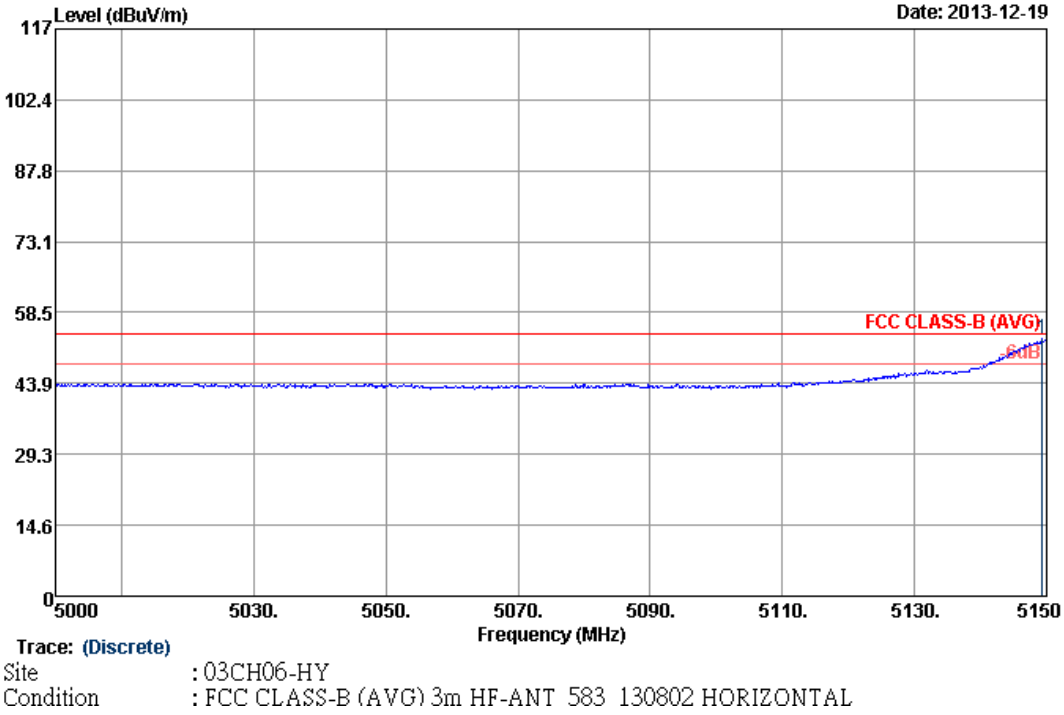


ANTENNA POLARITY : HORIZONTAL

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	67.51	-6.49	74	55.97	34.45	10.44	33.35	100	358	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 HT40	Temperature :	22~24
Test Band :	Low	Relative Humidity :	47~49
Test Channel :	38	Test Engineer :	Marlboro Hsu

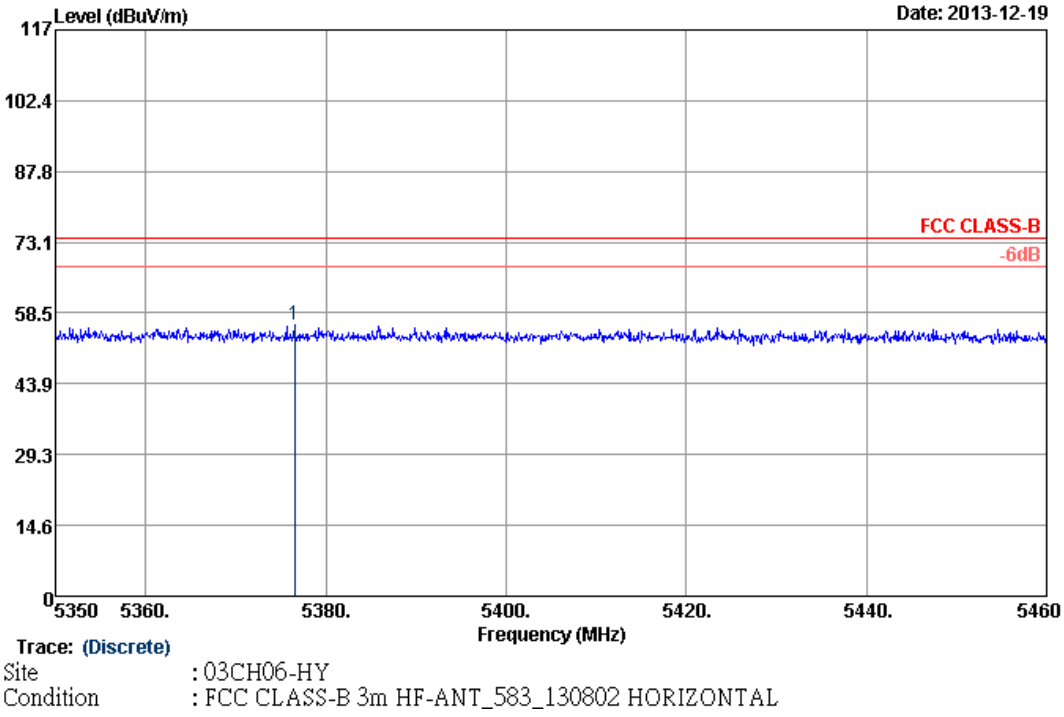


ANTENNA POLARITY : HORIZONTAL

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	53.07	-0.93	54	41.53	34.45	10.44	33.35	100	358	Average

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 HT40	Temperature :	22~24
Test Band :	Low	Relative Humidity :	47~49
Test Channel :	38	Test Engineer :	Marlboro Hsu

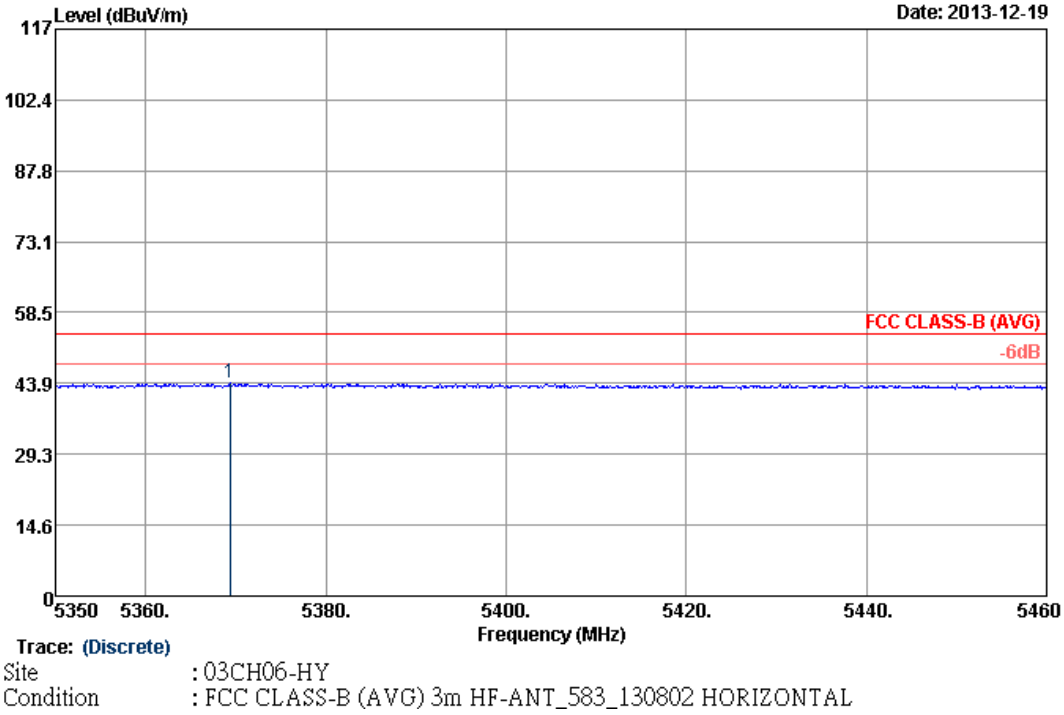


ANTENNA POLARITY : HORIZONTAL

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
5376.51	56.09	-17.91	74	43.92	34.67	10.75	33.25	100	358	Peak

Note: Worst case measurement on 5376.51 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 :	22~24
Test Band :	Low	Relative Humidity :	47~49
Test Channel :	38	Test Engineer :	Marlboro Hsu

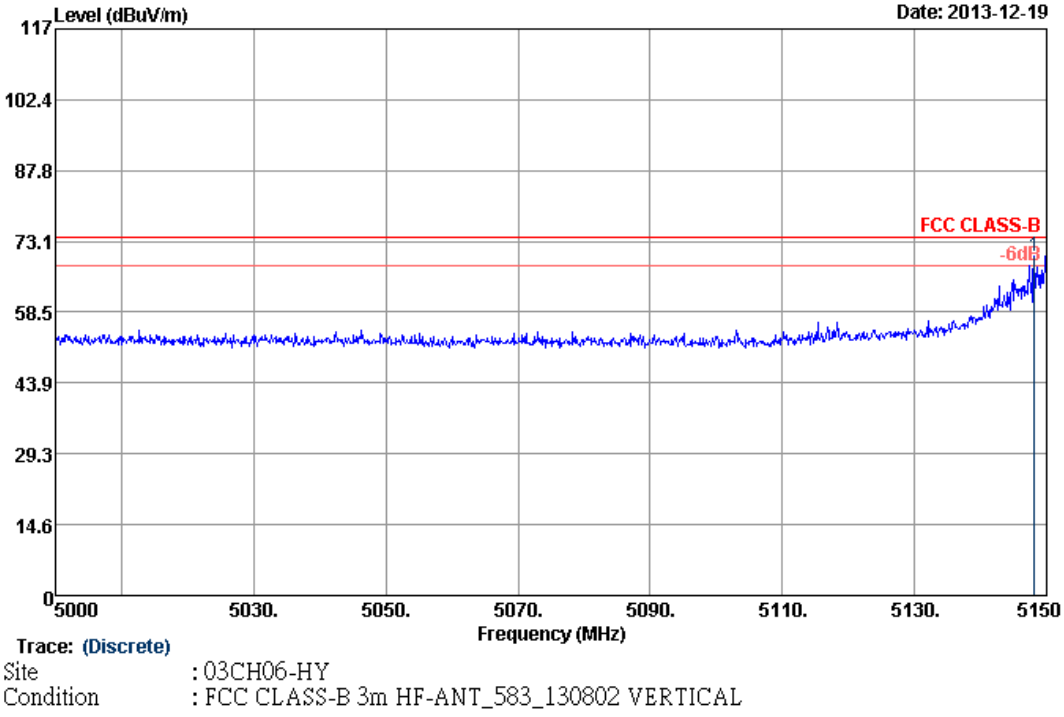


ANTENNA POLARITY : HORIZONTAL

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
5369.36	43.95	-10.05	54	31.8	34.67	10.75	33.27	100	358	Average

Note: Worst case measurement on 5369.36 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 :	22~24
Test Band :	Low	Relative Humidity :	47~49
Test Channel :	38	Test Engineer :	Marlboro Hsu

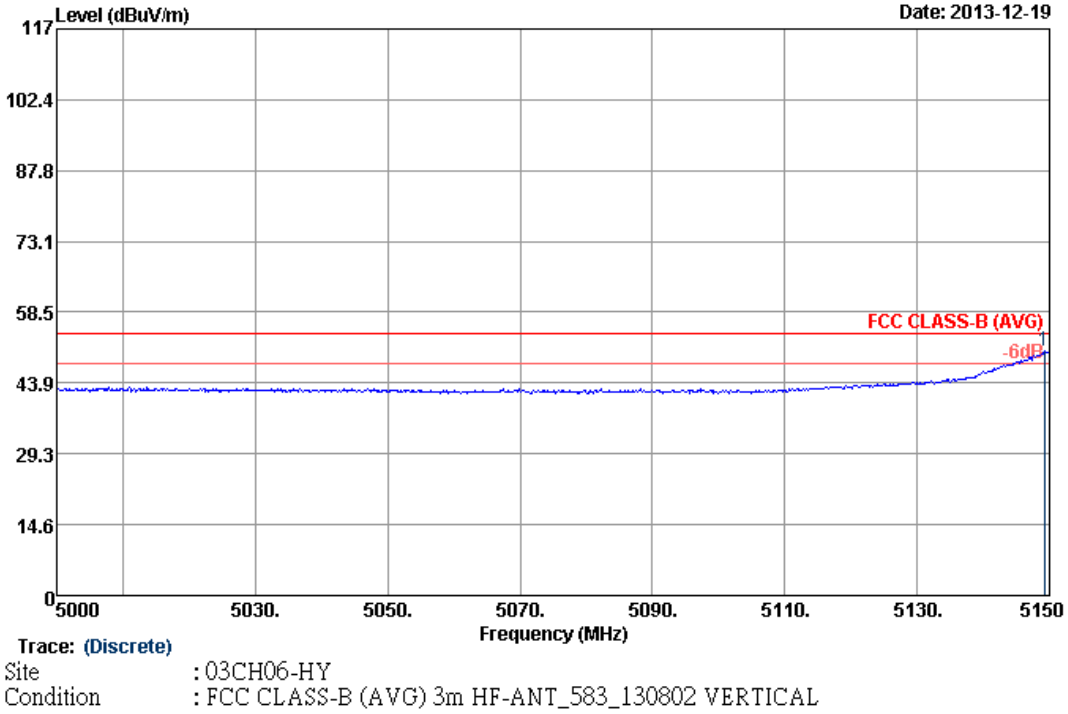


ANTENNA POLARITY : VERTICAL

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
5148.2	70.11	-3.89	74	58.57	34.45	10.44	33.35	100	322	Peak

Note: Worst case measurement on 5148.2 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 :	22~24
Test Band :	Low	Relative Humidity :	47~49
Test Channel :	38	Test Engineer :	Marlboro Hsu

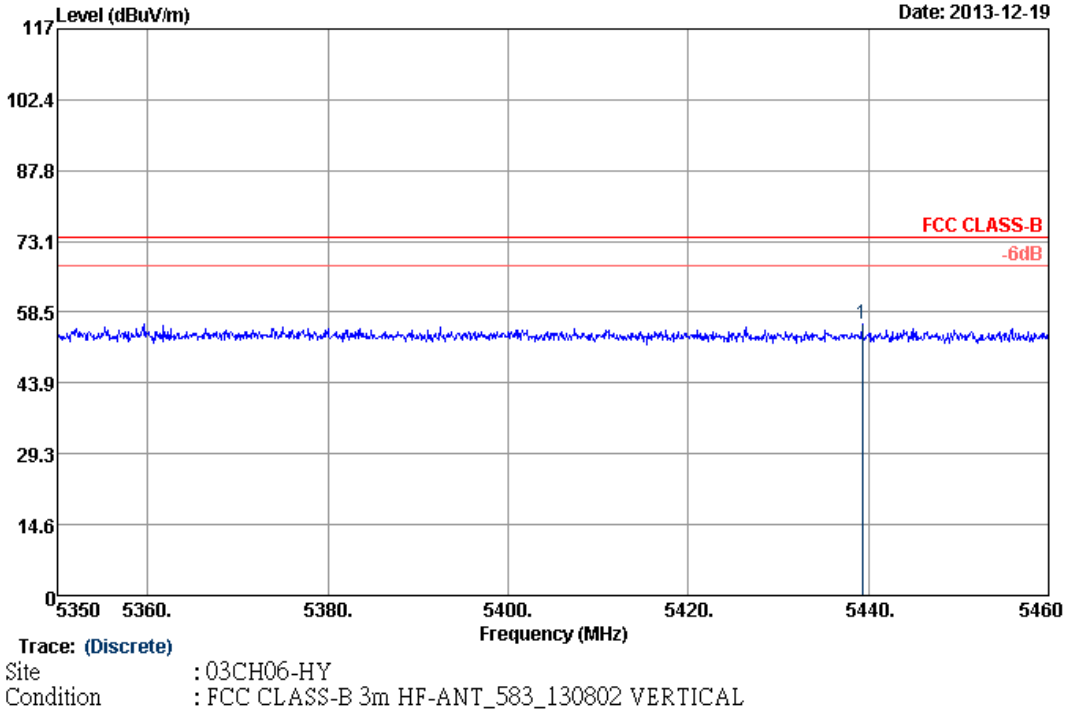


ANTENNA POLARITY : VERTICAL

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
5149.25	50.52	-3.48	54	38.98	34.45	10.44	33.35	100	322	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 :	802.11n HT40	Temperature :	22~24
Test Band :	Low	Relative Humidity :	47~49
Test Channel :	38	Test Engineer :	Marlboro Hsu

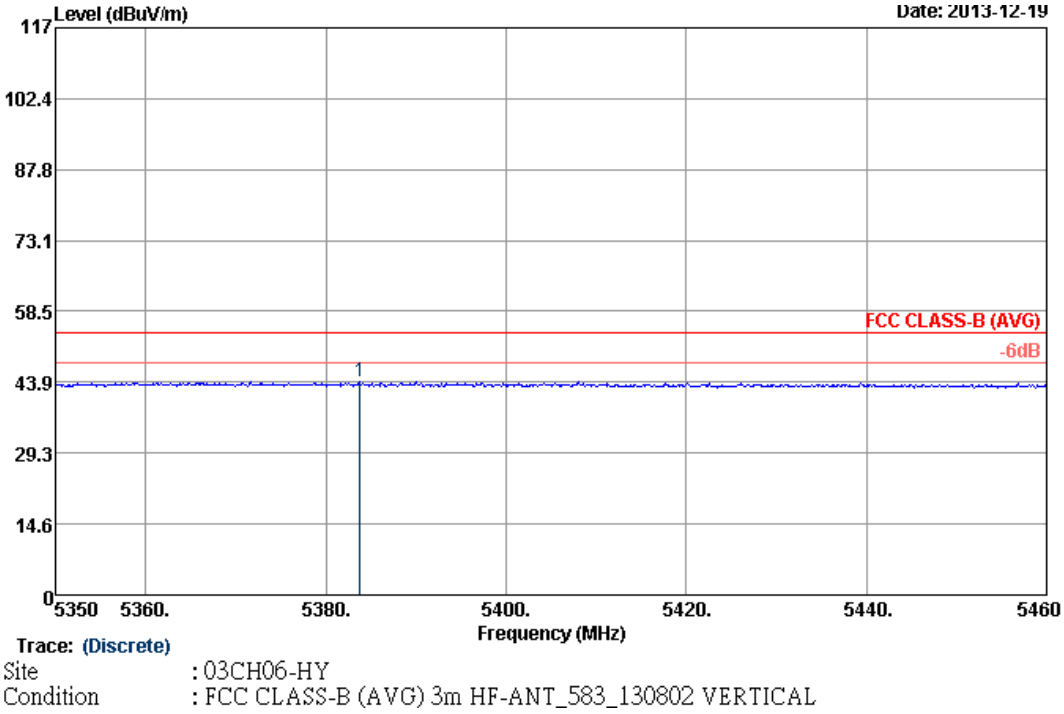


ANTENNA POLARITY : VERTICAL

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
5439.32	56.01	-17.99	74	43.65	34.73	10.86	33.23	100	322	Peak

Note: Worst case measurement on 5439.32 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 :	22~24
Test Band :	Low	Relative Humidity :	47~49
Test Channel :	38	Test Engineer :	Marlboro Hsu

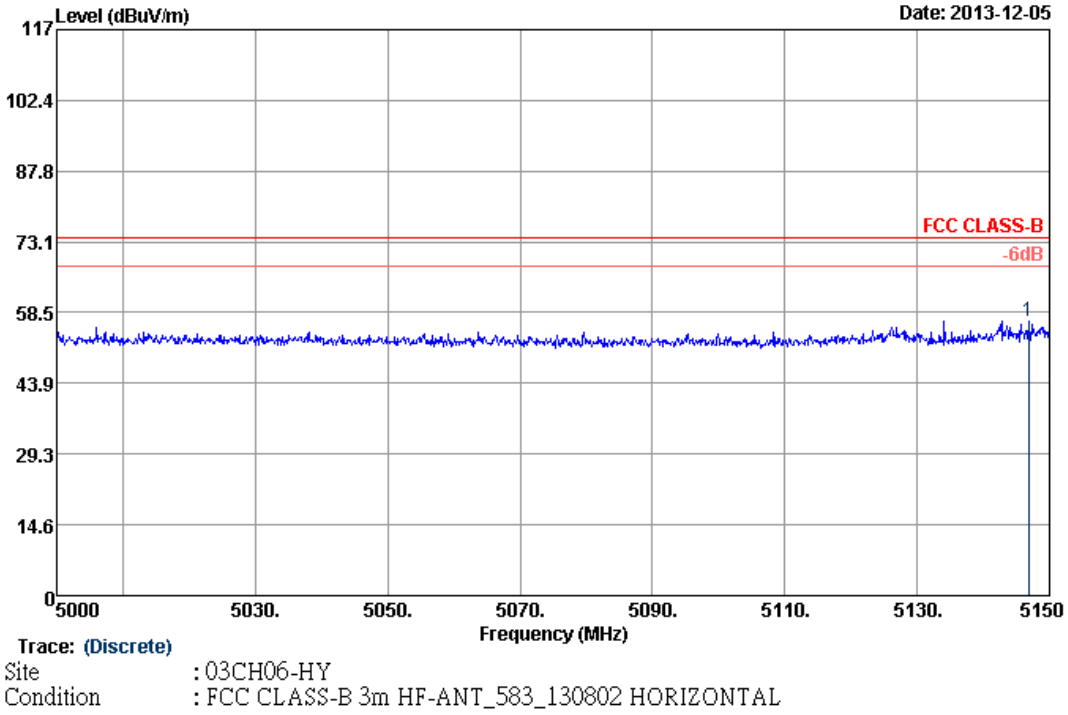


ANTENNA POLARITY : VERTICAL

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
5383.77	43.9	-10.1	54	31.68	34.68	10.79	33.25	100	322	Average

Note: Worst case measurement on 5383.77 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 :	802.11n HT40	Temperature :	22~24
Test Band :	High	Relative Humidity :	47~49
Test Channel :	46	Test Engineer :	Marlboro Hsu

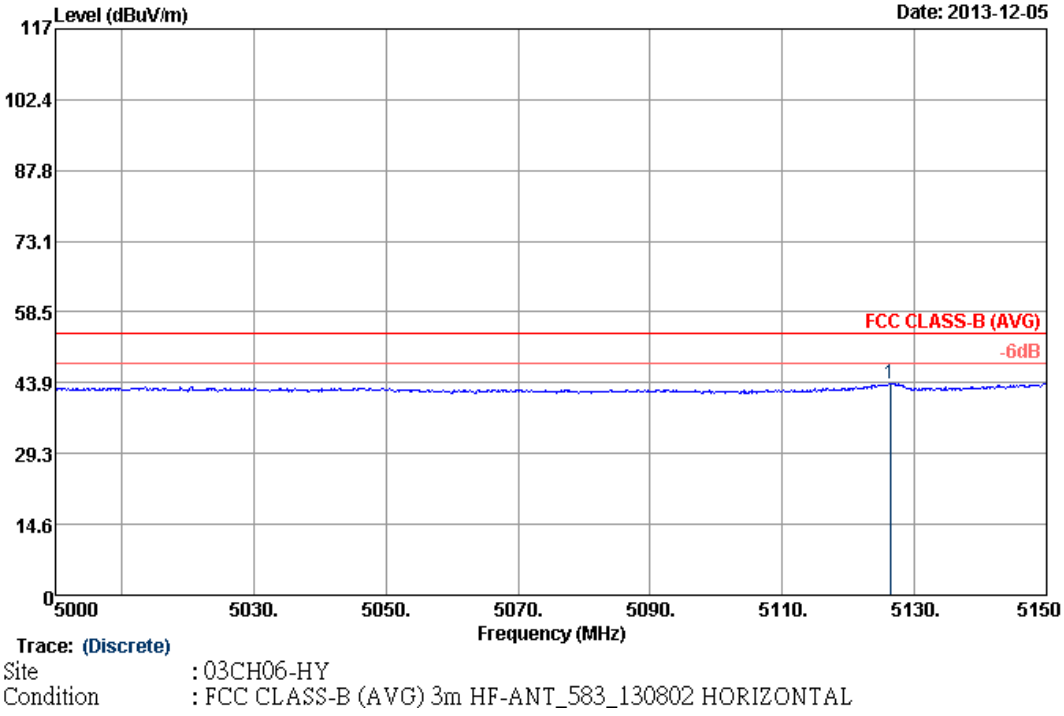


ANTENNA POLARITY : HORIZONTAL

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
5146.85	56.77	-17.23	74	45.23	34.45	10.44	33.35	104	286	Peak

Note: Worst case measurement on 5146.85 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 :	22~24
Test Band :	High	Relative Humidity :	47~49
Test Channel :	46	Test Engineer :	Marlboro Hsu

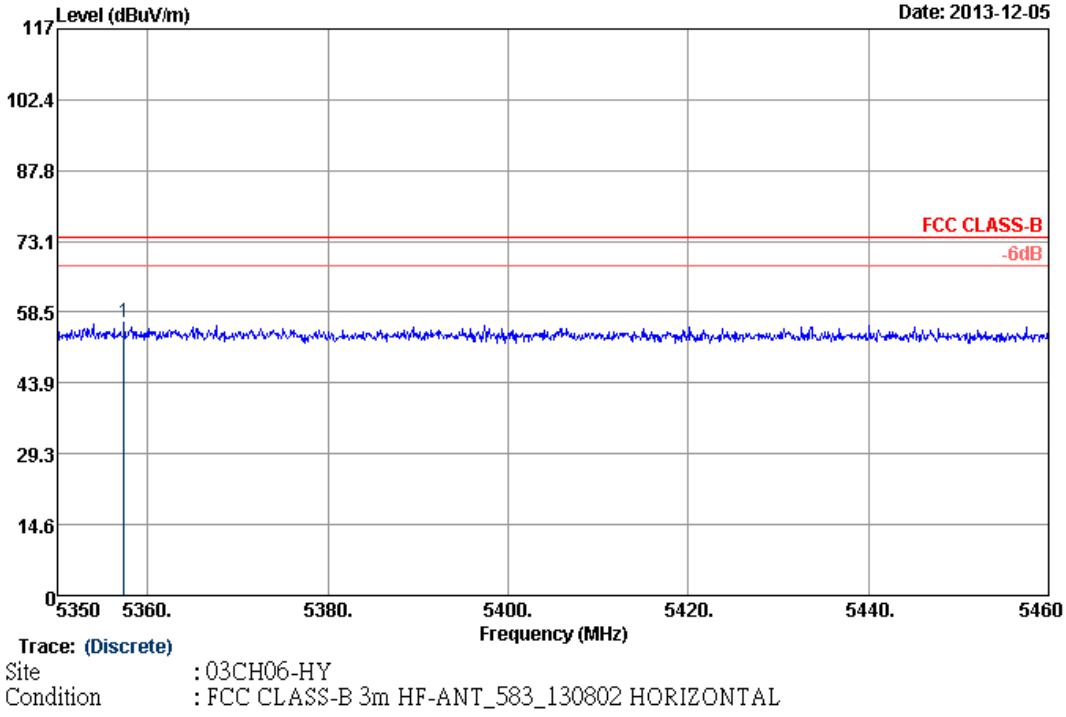


ANTENNA POLARITY : HORIZONTAL

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
5126.3	43.78	-10.22	54	32.31	34.43	10.4	33.36	104	286	Average

Note: Worst case measurement on 5126.3 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 :	22~24
Test Band :	High	Relative Humidity :	47~49
Test Channel :	46	Test Engineer :	Marlboro Hsu

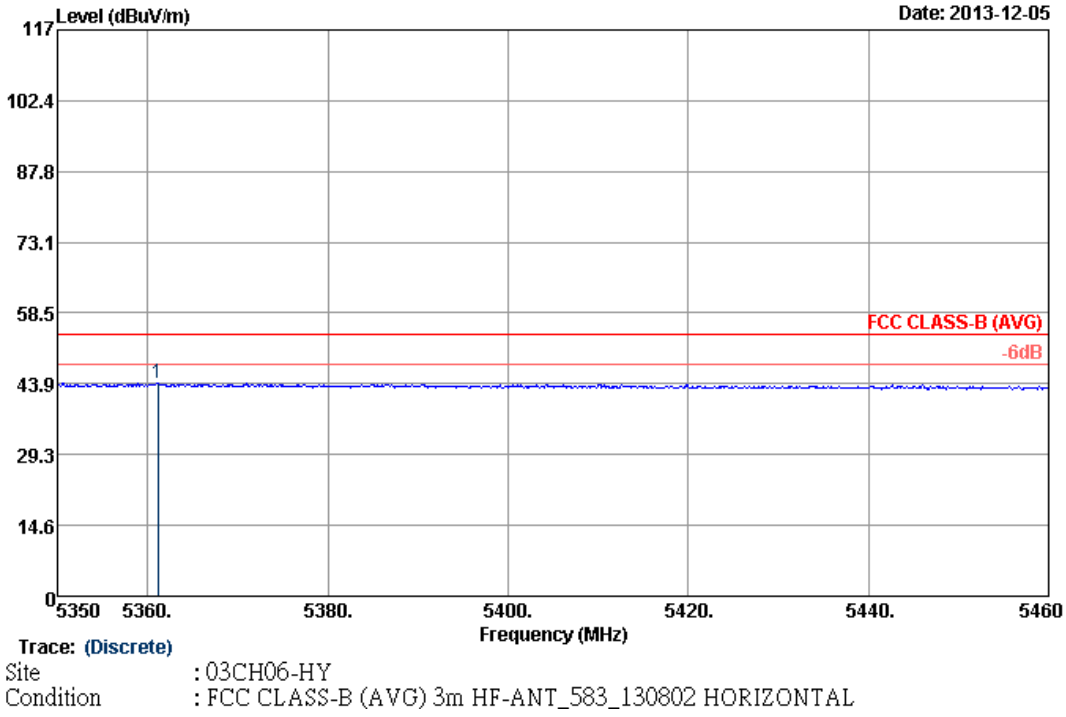


ANTENNA POLARITY : HORIZONTAL

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
5357.37	56.31	-17.69	74	44.18	34.65	10.75	33.27	104	286	Peak

Note: Worst case measurement on 5357.37 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 :	22~24
Test Band :	High	Relative Humidity :	47~49
Test Channel :	46	Test Engineer :	Marlboro Hsu

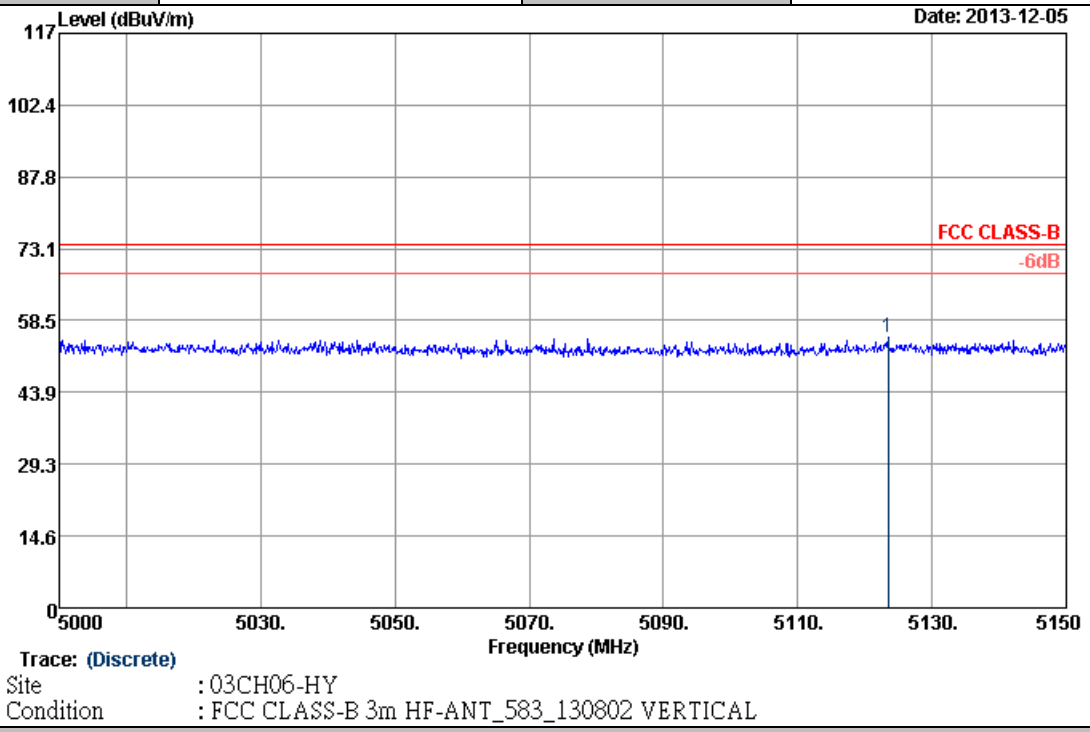


ANTENNA POLARITY : HORIZONTAL

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
5361.11	44.03	-9.97	54	31.88	34.67	10.75	33.27	104	286	Average

Note: Worst case measurement on 5361.11 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 :	22~24
Test Band :	High	Relative Humidity :	47~49
Test Channel :	46	Test Engineer :	Marlboro Hsu

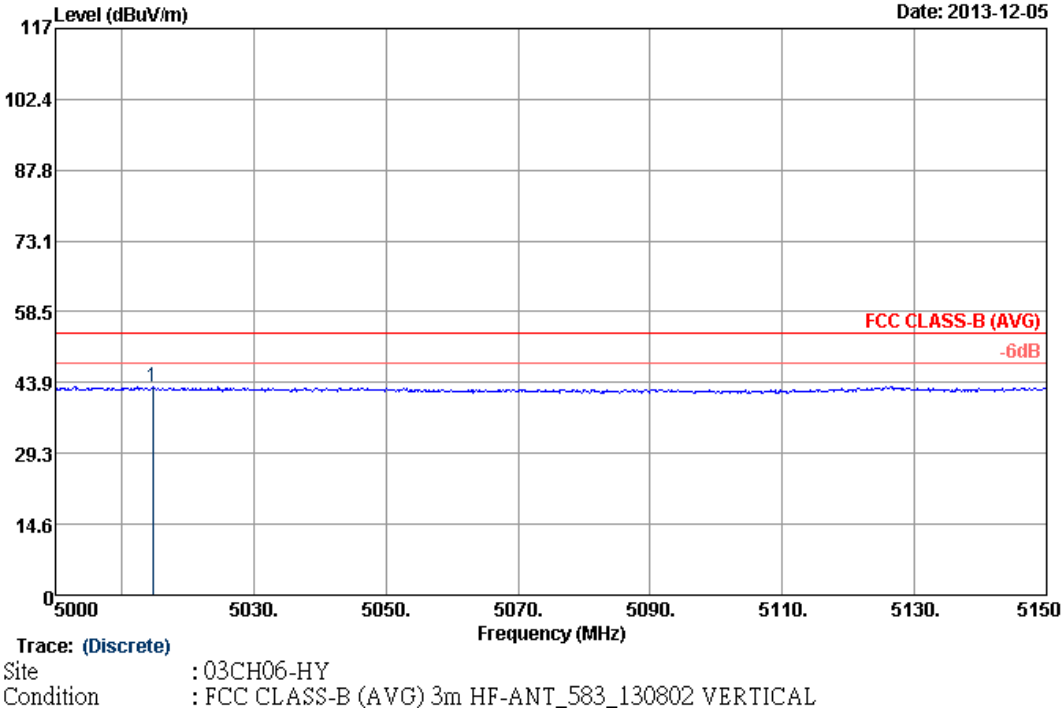


ANTENNA POLARITY : VERTICAL

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
5123.45	55.1	-18.9	74	43.63	34.43	10.4	33.36	100	268	Peak

Note: Worst case measurement on 5123.45 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 HT40	Temperature :	22~24
Test Band :	High	Relative Humidity :	47~49
Test Channel :	46	Test Engineer :	Marlboro Hsu

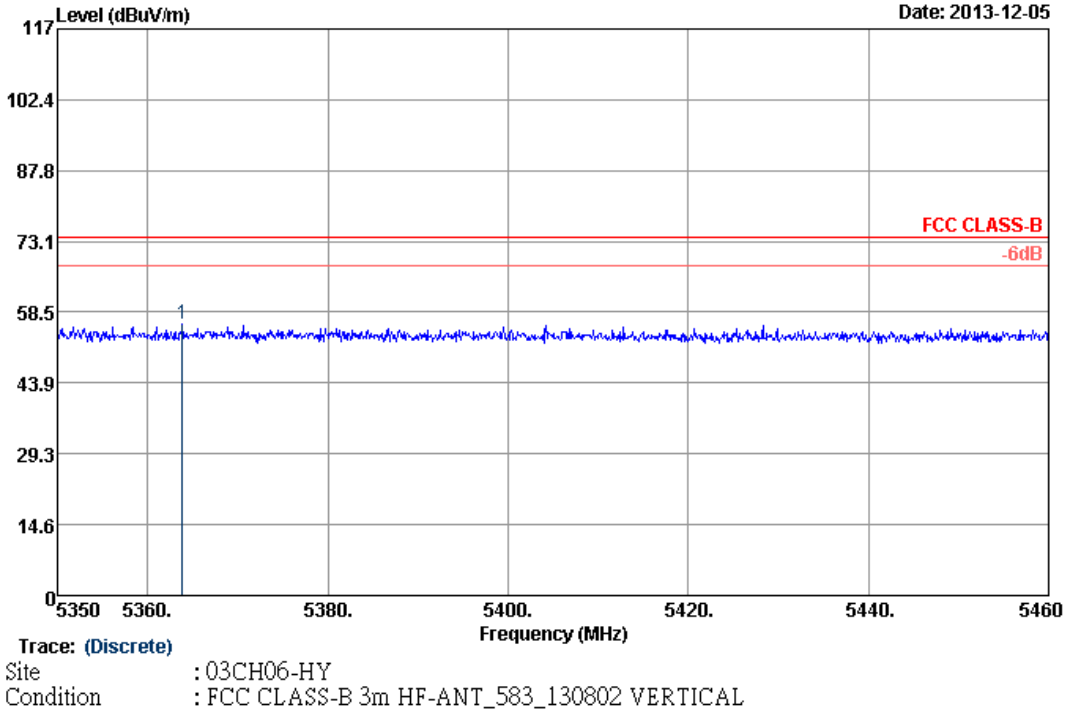


ANTENNA POLARITY : VERTICAL

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
5014.7	43.04	-10.96	54	31.91	34.32	10.23	33.42	100	268	Average

Note: Worst case measurement on 5014.7 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 :	22~24
Test Band :	High	Relative Humidity :	47~49
Test Channel :	46	Test Engineer :	Marlboro Hsu

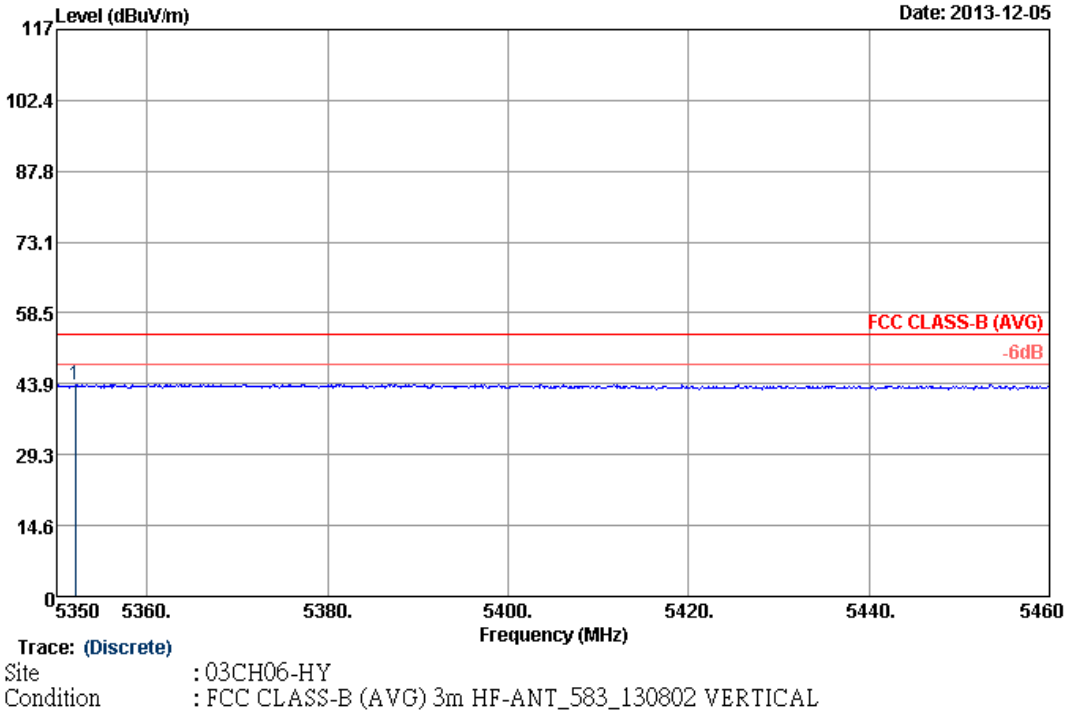


ANTENNA POLARITY : VERTICAL

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
5363.86	56.04	-17.96	74	43.89	34.67	10.75	33.27	100	268	Peak

Note: Worst case measurement on 5363.86 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 :	22~24
Test Band :	High	Relative Humidity :	47~49
Test Channel :	46	Test Engineer :	Marlboro Hsu

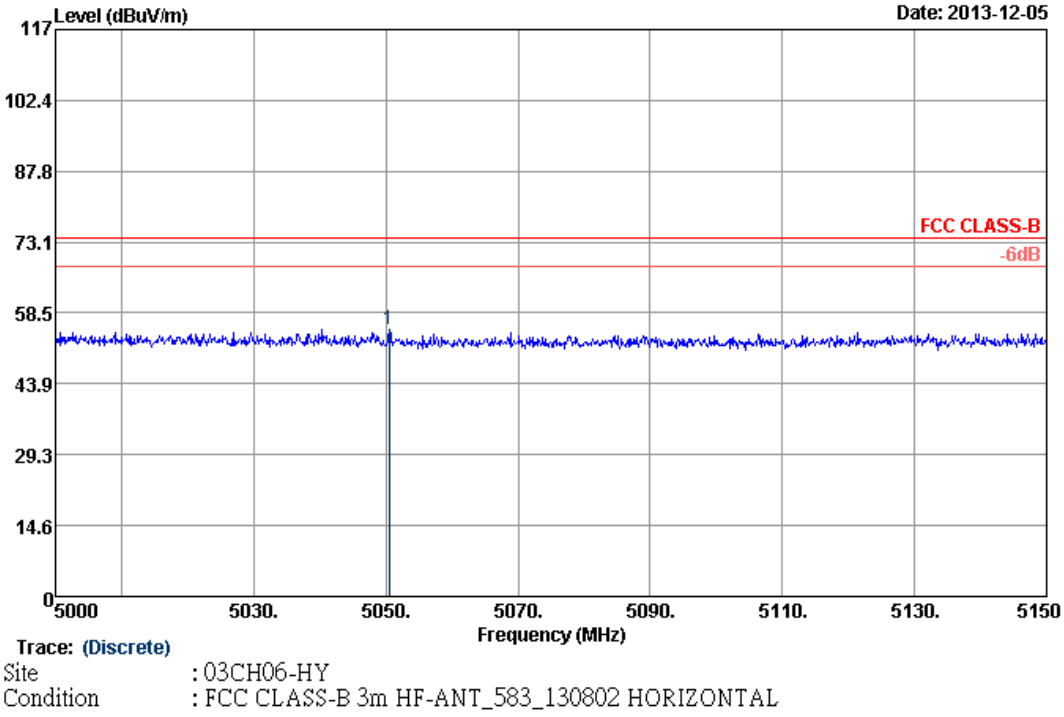


ANTENNA POLARITY : VERTICAL

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
5352.09	43.8	-10.2	54	31.7	34.65	10.72	33.27	100	268	Average

Note: Worst case measurement on 5352.09 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 :	22~24
Test Band :	Low	Relative Humidity :	47~49
Test Channel :	54	Test Engineer :	Marlboro Hsu

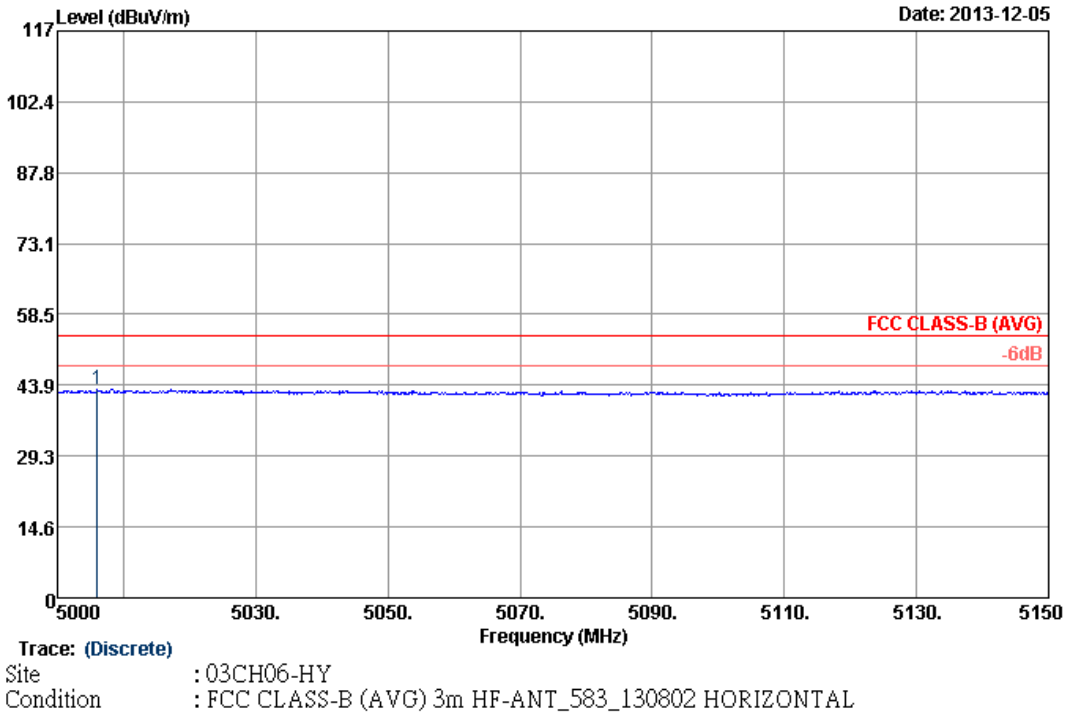


ANTENNA POLARITY : HORIZONTAL

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
5050.55	55.03	-18.97	74	43.78	34.35	10.3	33.4	102	286	Peak

Note: Worst case measurement on 5050.55 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 :	22~24
Test Band :	Low	Relative Humidity :	47~49
Test Channel :	54	Test Engineer :	Marlboro Hsu

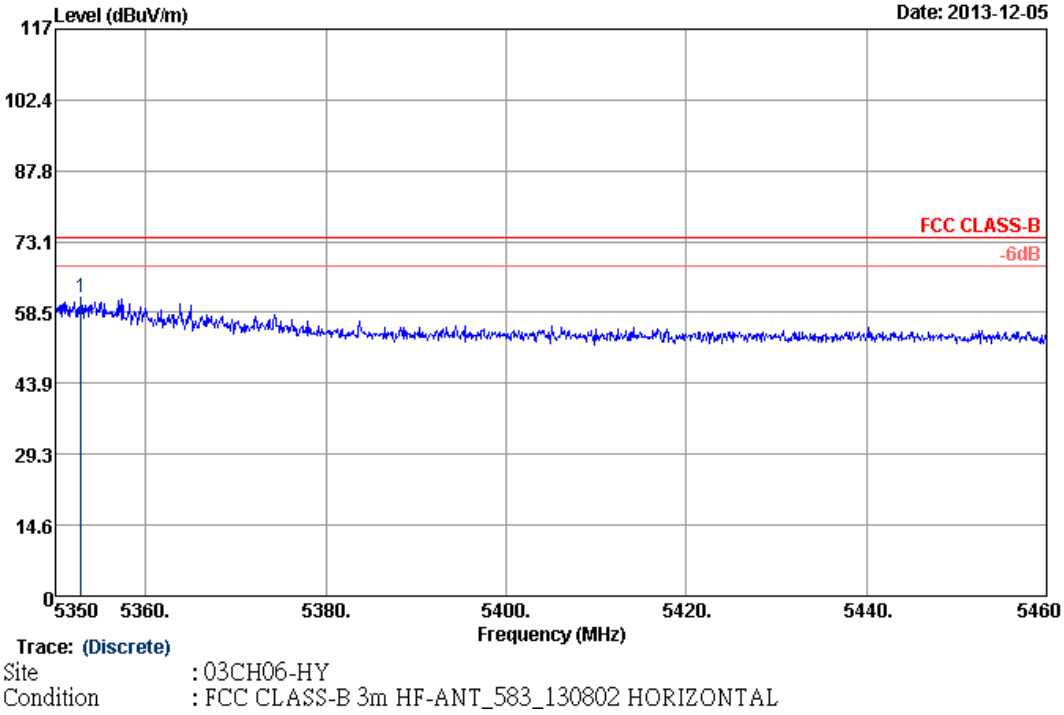


ANTENNA POLARITY : HORIZONTAL

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
5006	43.14	-10.86	54	32.01	34.32	10.23	33.42	102	286	Average

Note: Worst case measurement on 5006 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 :	22~24
Test Band :	Low	Relative Humidity :	47~49
Test Channel :	54	Test Engineer :	Marlboro Hsu

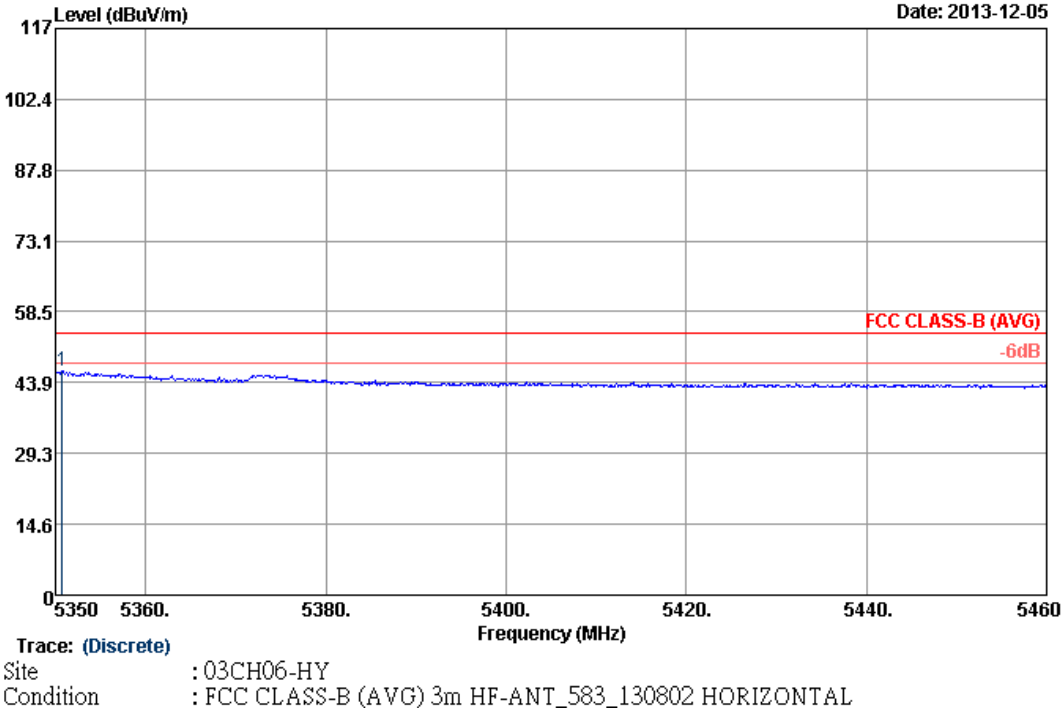


ANTENNA POLARITY : HORIZONTAL

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
5352.86	61.71	-12.29	74	49.61	34.65	10.72	33.27	102	286	Peak

Note: Worst case measurement on 5352.86 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 :	22~24
Test Band :	Low	Relative Humidity :	47~49
Test Channel :	54	Test Engineer :	Marlboro Hsu

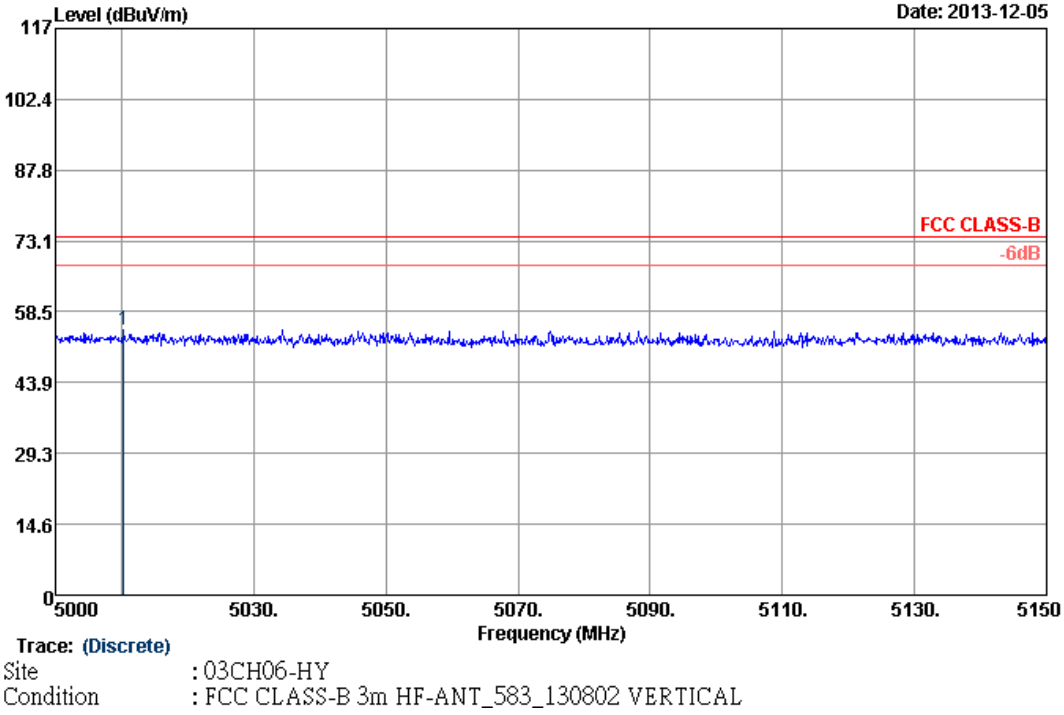


ANTENNA POLARITY : HORIZONTAL

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
5350.77	46.31	-7.69	54	34.21	34.65	10.72	33.27	102	286	Average

Note: Worst case measurement on 5350.77 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 :	802.11n HT40	Temperature :	22~24
Test Band :	Low	Relative Humidity :	47~49
Test Channel :	54	Test Engineer :	Marlboro Hsu

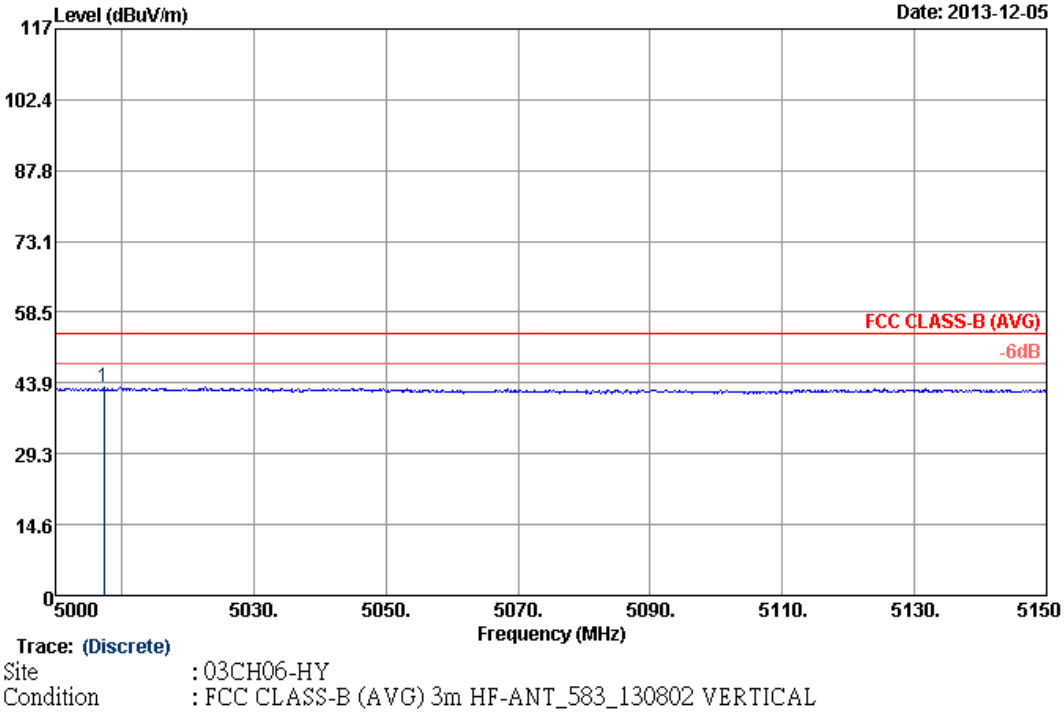


ANTENNA POLARITY : VERTICAL

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
5010.35	54.9	-19.1	74	43.77	34.32	10.23	33.42	100	268	Peak

Note: Worst case measurement on 5010.35 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 :	22~24
Test Band :	Low	Relative Humidity :	47~49
Test Channel :	54	Test Engineer :	Marlboro Hsu

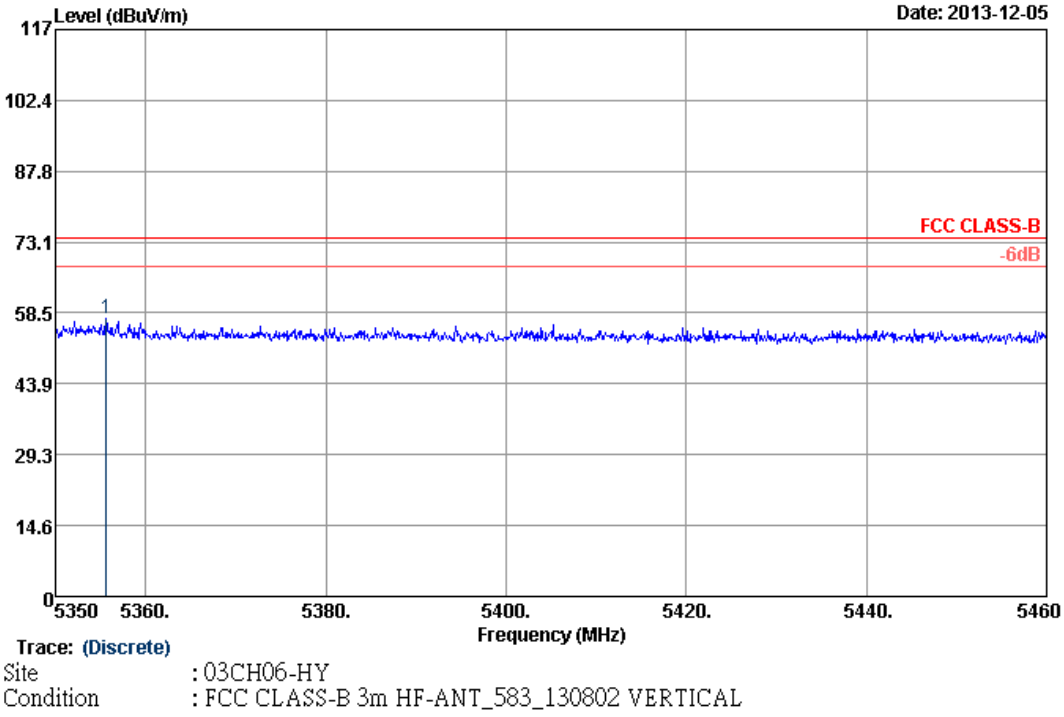


ANTENNA POLARITY : VERTICAL

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
5007.35	43.05	-10.95	54	31.92	34.32	10.23	33.42	100	268	Average

Note: Worst case measurement on 5007.35 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 :	22~24
Test Band :	Low	Relative Humidity :	47~49
Test Channel :	54	Test Engineer :	Marlboro Hsu

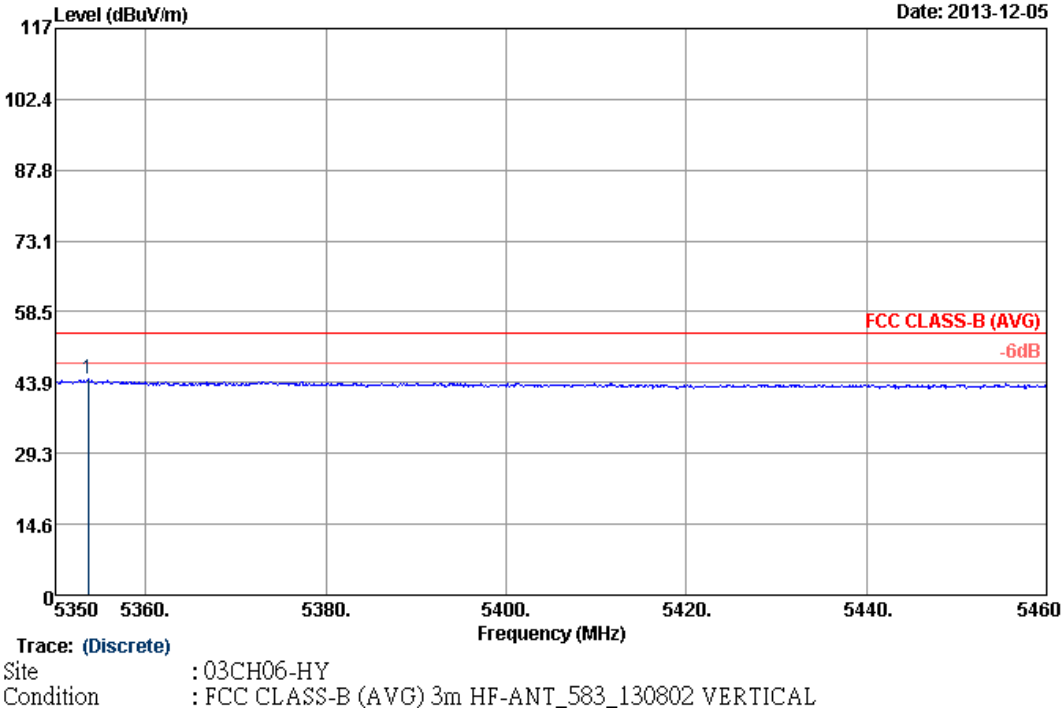


ANTENNA POLARITY : VERTICAL

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
5355.61	57.36	-16.64	74	45.26	34.65	10.72	33.27	100	268	Peak

Note: Worst case measurement on 5355.61 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 :	802.11n HT40	Temperature :	22~24
Test Band :	Low	Relative Humidity :	47~49
Test Channel :	54	Test Engineer :	Marlboro Hsu

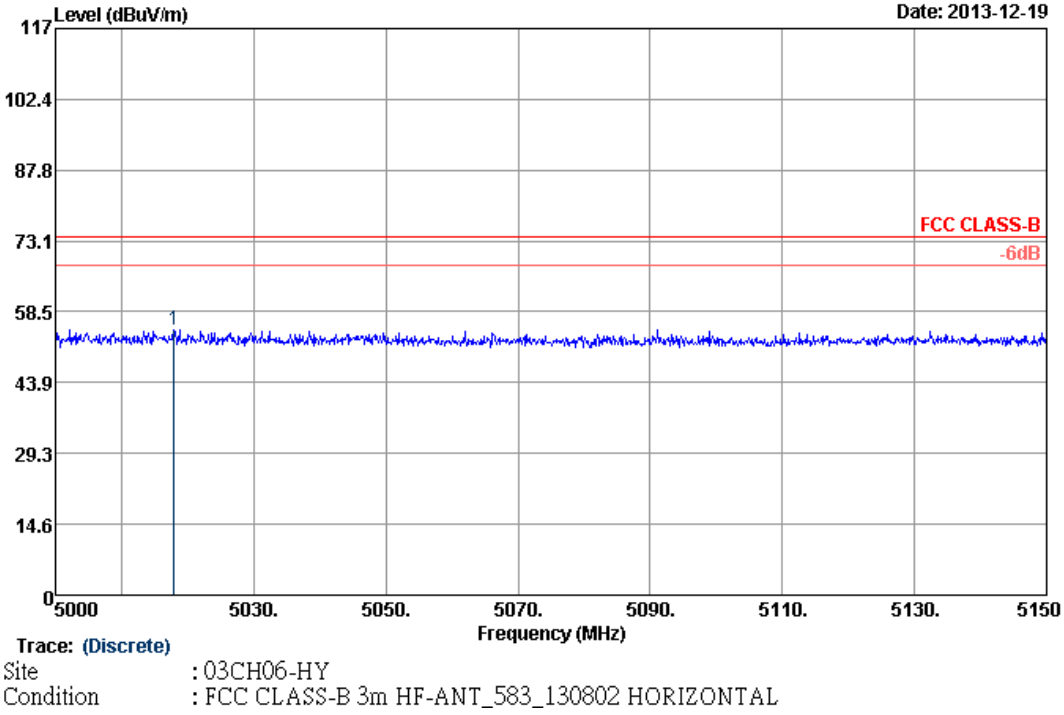


ANTENNA POLARITY : VERTICAL

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
5353.63	44.5	-9.5	54	32.4	34.65	10.72	33.27	100	268	Average

Note: Worst case measurement on 5353.63 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 :	22~24
Test Band :	High	Relative Humidity :	47~49
Test Channel :	62	Test Engineer :	Marlboro Hsu

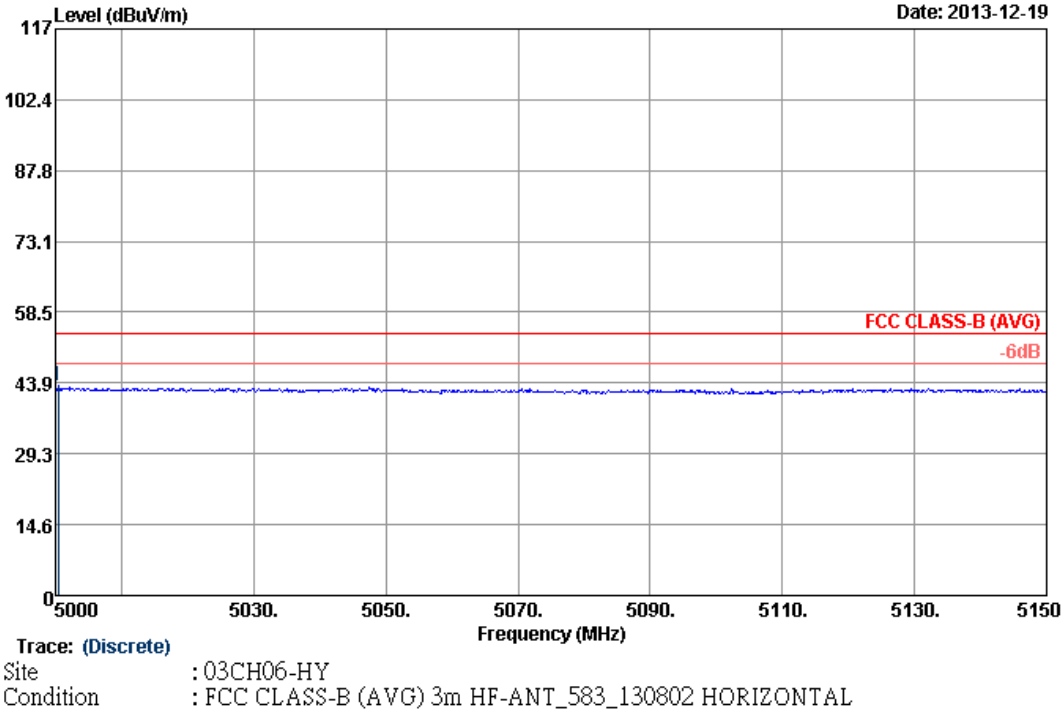


ANTENNA POLARITY : HORIZONTAL

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
5018	54.74	-19.26	74	43.6	34.32	10.23	33.41	100	343	Peak

Note: Worst case measurement on 5018 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 :	22~24
Test Band :	High	Relative Humidity :	47~49
Test Channel :	62	Test Engineer :	Marlboro Hsu

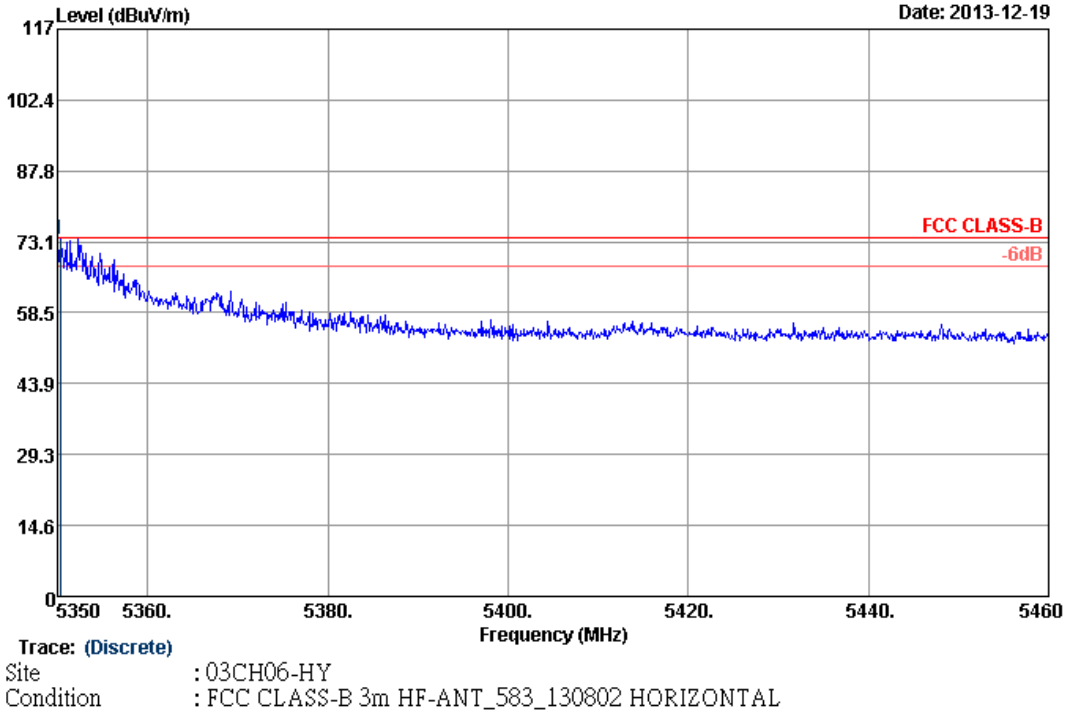


ANTENNA POLARITY : HORIZONTAL

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
5000.45	43.2	-10.8	54	32.09	34.3	10.23	33.42	100	343	Average

Note: Worst case measurement on 5000.45 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 HT40	Temperature :	22~24
Test Band :	High	Relative Humidity :	47~49
Test Channel :	62	Test Engineer :	Marlboro Hsu

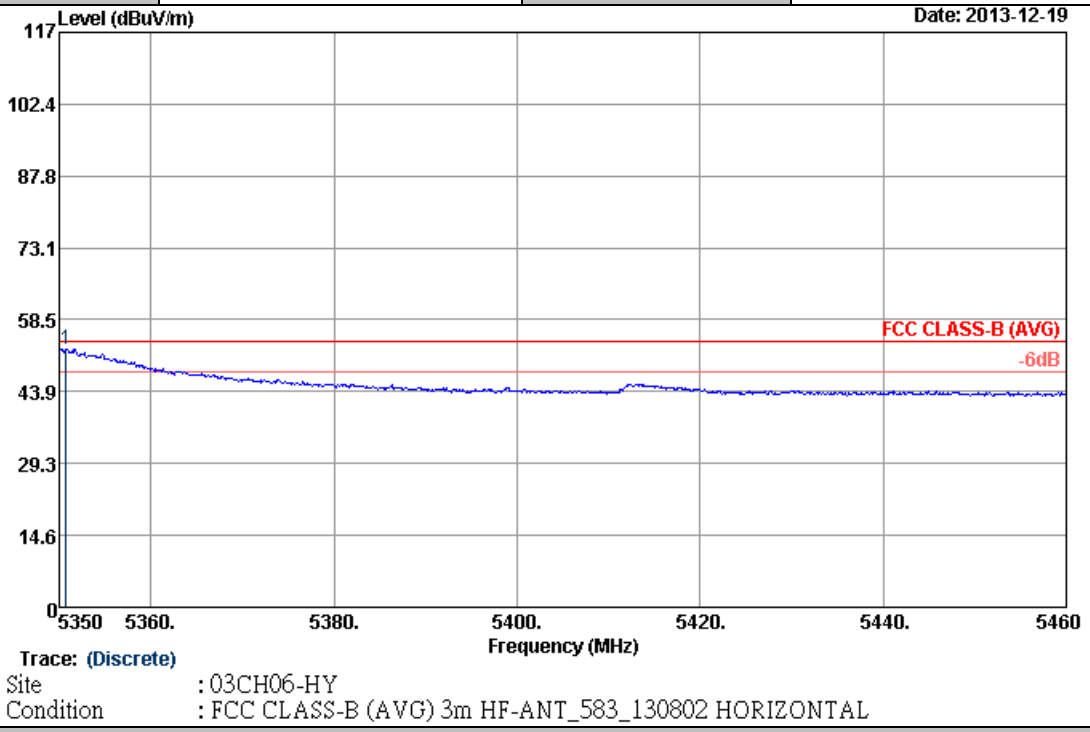


ANTENNA POLARITY : HORIZONTAL

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
5350.33	73.68	-0.32	74	61.58	34.65	10.72	33.27	100	343	Peak

Note: Worst case measurement on 5350.33 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 :	22~24
Test Band :	High	Relative Humidity :	47~49
Test Channel :	62	Test Engineer :	Marlboro Hsu

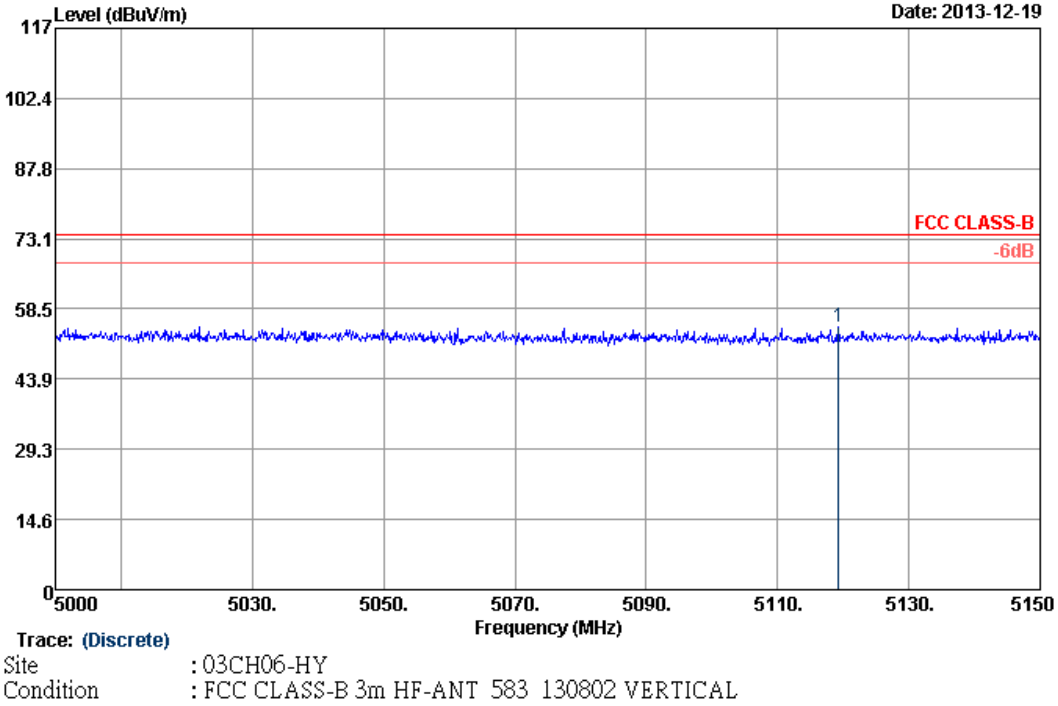


ANTENNA POLARITY : HORIZONTAL

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
5350.77	52.62	-1.38	54	40.52	34.65	10.72	33.27	100	343	Average

Note: Worst case measurement on 5350.77 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 :	802.11n HT40	Temperature :	22~24
Test Band :	High	Relative Humidity :	47~49
Test Channel :	62	Test Engineer :	Marlboro Hsu

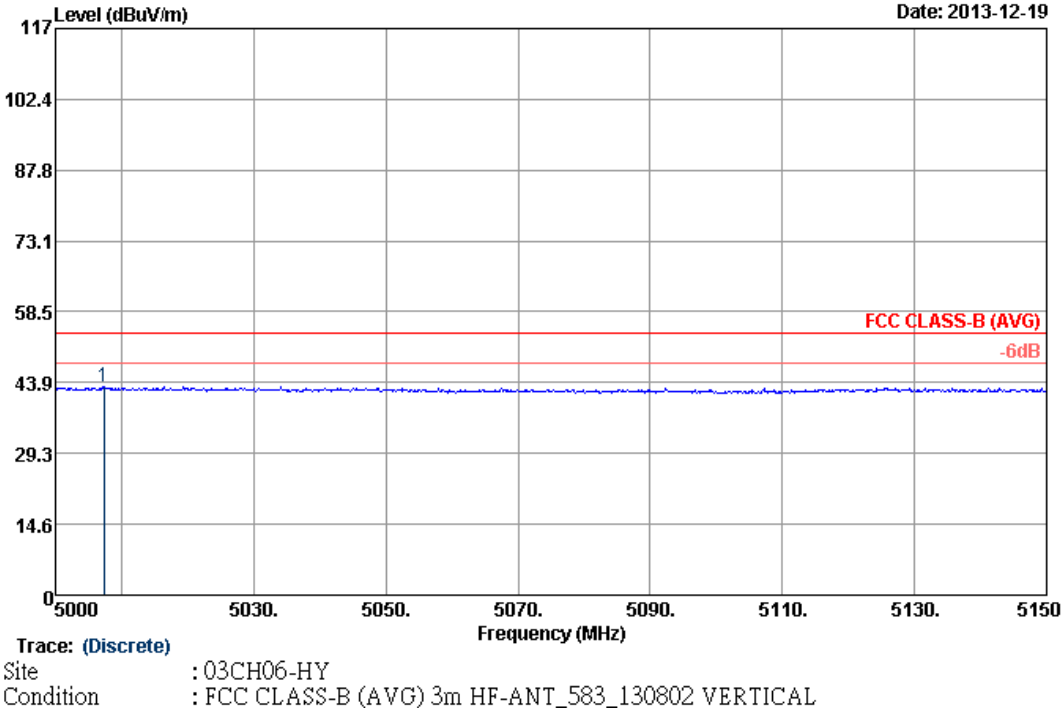


ANTENNA POLARITY : VERTICAL

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
5119.25	54.73	-19.27	74	43.27	34.42	10.4	33.36	100	322	Peak

Note: Worst case measurement on 5119.25 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 :	802.11n HT40	Temperature :	22~24
Test Band :	High	Relative Humidity :	47~49
Test Channel :	62	Test Engineer :	Marlboro Hsu

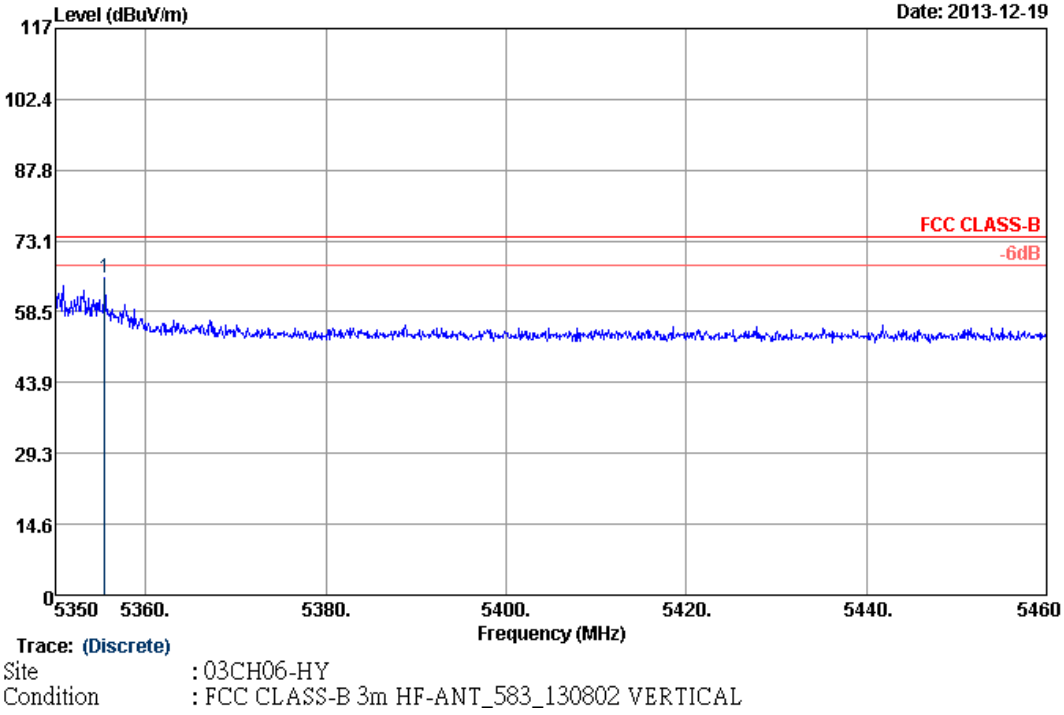


ANTENNA POLARITY : VERTICAL

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
5007.35	43.1	-10.9	54	31.97	34.32	10.23	33.42	100	322	Average

Note: Worst case measurement on 5007.35 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 :	22~24
Test Band :	High	Relative Humidity :	47~49
Test Channel :	62	Test Engineer :	Marlboro Hsu

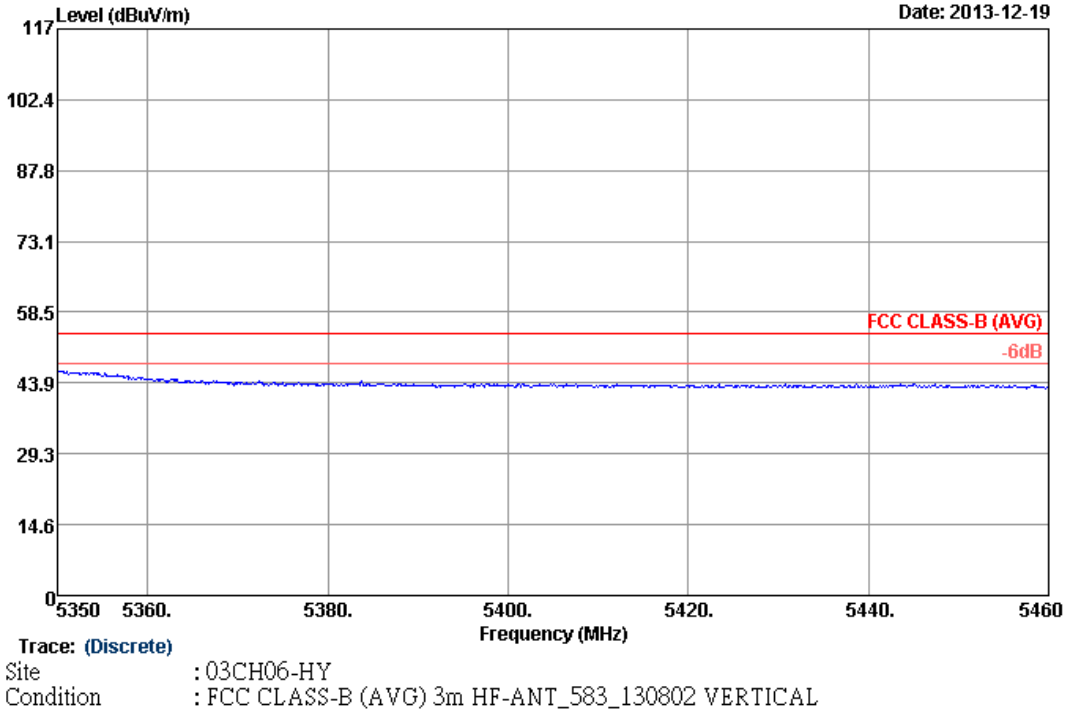


ANTENNA POLARITY : VERTICAL

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
5355.5	65.64	-8.36	74	53.54	34.65	10.72	33.27	100	322	Peak

Note: Worst case measurement on 5355.5 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 :	22~24
Test Band :	High	Relative Humidity :	47~49
Test Channel :	62	Test Engineer :	Marlboro Hsu

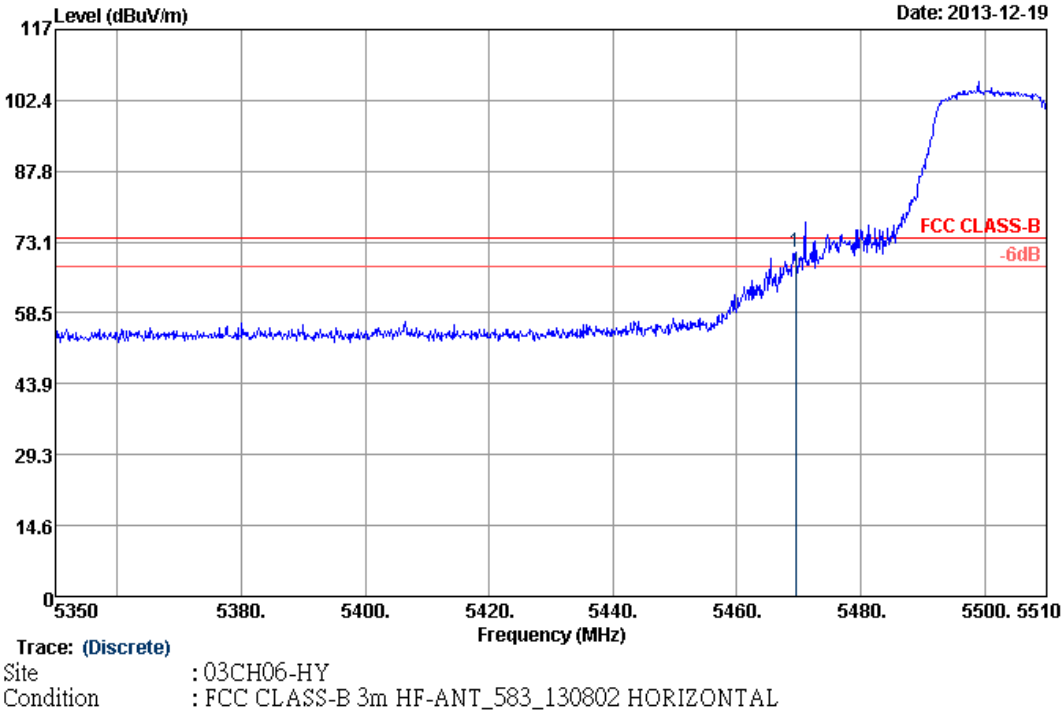


ANTENNA POLARITY : VERTICAL

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	46.41	-7.59	54	34.31	34.65	10.72	33.27	100	322	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 :	22~24
Test Band :	Low	Relative Humidity :	47~49
Test Channel :	102	Test Engineer :	Marlboro Hsu

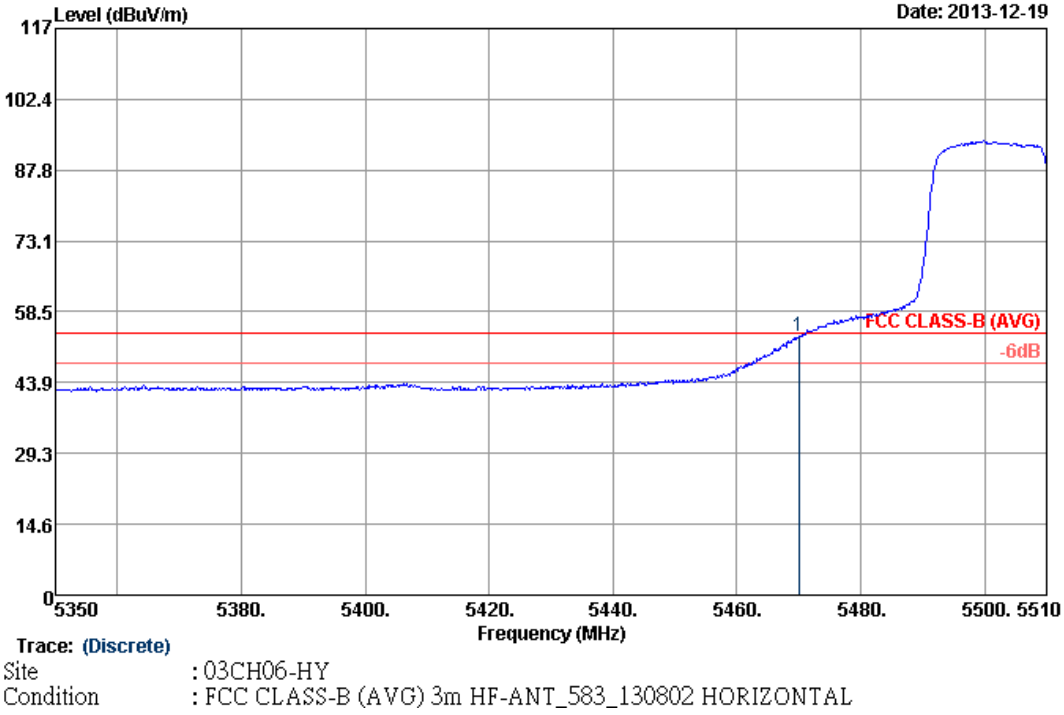


ANTENNA POLARITY : HORIZONTAL

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
5469.52	71.03	-2.97	74	58.59	34.77	10.89	33.22	100	342	Peak

Note: Worst case measurement on 5469.52 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 :	22~24
Test Band :	Low	Relative Humidity :	47~49
Test Channel :	102	Test Engineer :	Marlboro Hsu

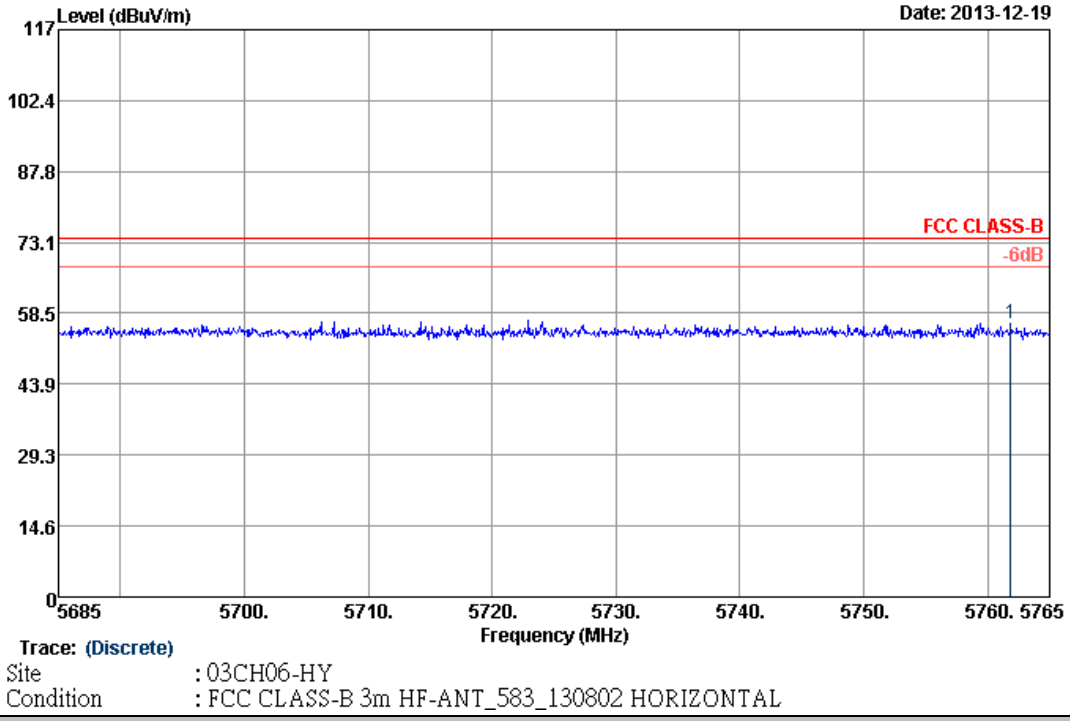


ANTENNA POLARITY : HORIZONTAL

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	53.39	-0.61	54	40.95	34.77	10.89	33.22	100	342	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 :	22~24
Test Band :	Low	Relative Humidity :	47~49
Test Channel :	102	Test Engineer :	Marlboro Hsu

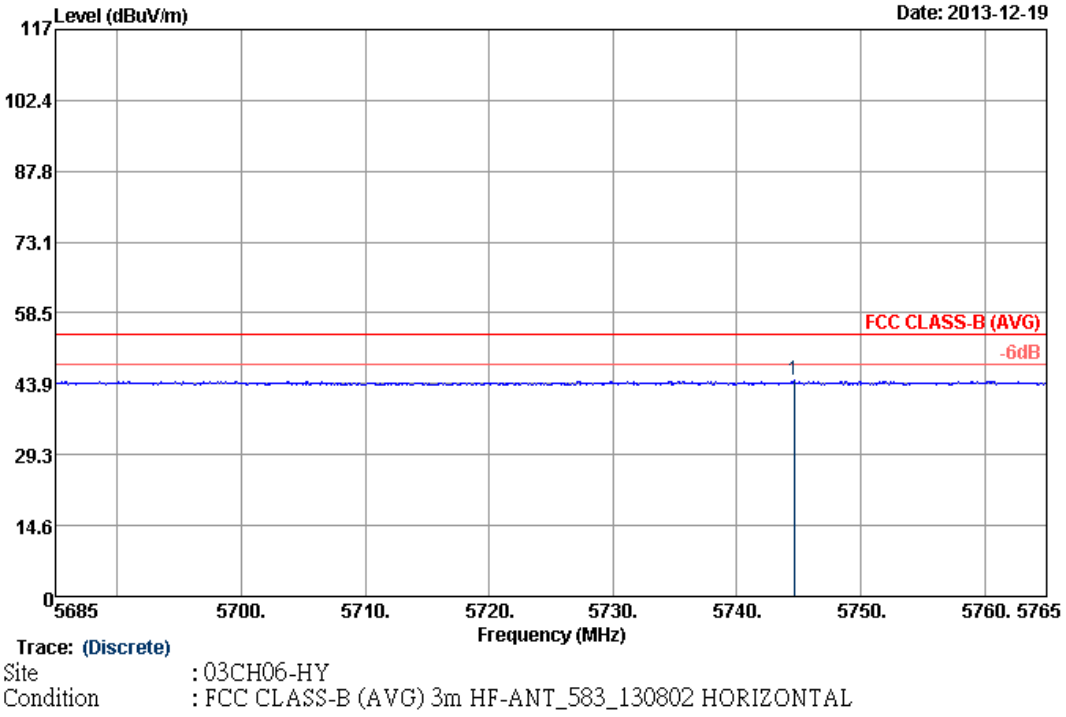


ANTENNA POLARITY : HORIZONTAL

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
5761.88	56.28	-17.72	74	43.14	35.06	11.39	33.31	100	342	Peak

Note: Worst case measurement on 5761.88 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.

Test Mode :	802.11n HT40	Temperature :	22~24
Test Band :	Low	Relative Humidity :	47~49
Test Channel :	102	Test Engineer :	Marlboro Hsu

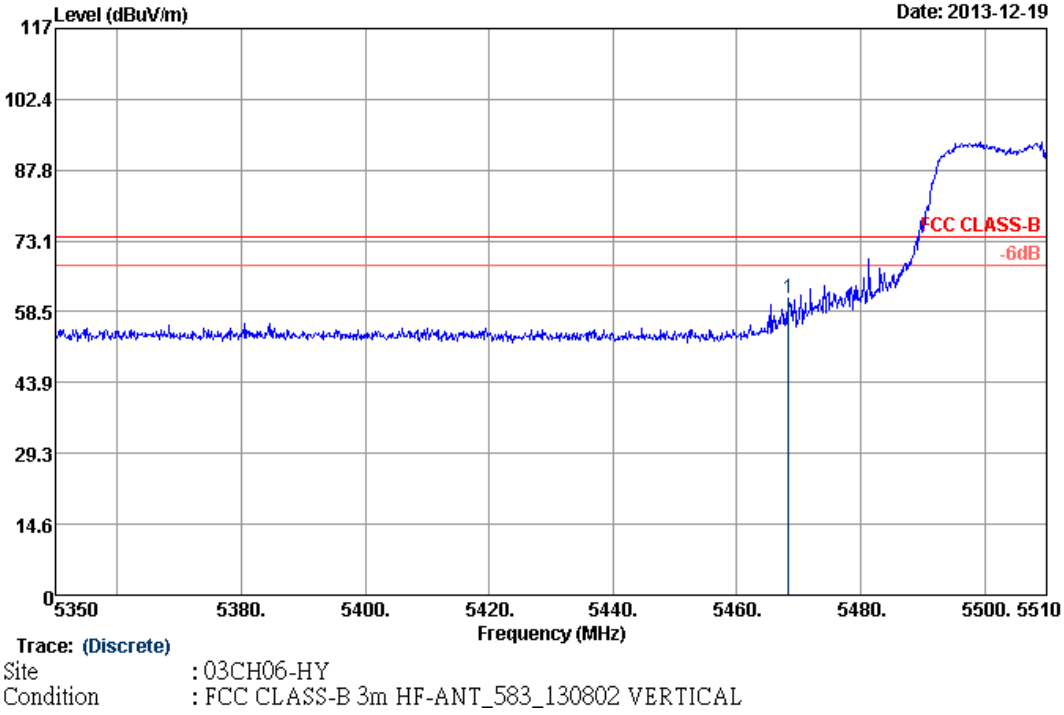


ANTENNA POLARITY : HORIZONTAL

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
5744.6	44.59	-9.41	54	31.46	35.04	11.39	33.3	100	342	Average

Note: Worst case measurement on 5744.6 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 :	22~24
Test Band :	Low	Relative Humidity :	47~49
Test Channel :	102	Test Engineer :	Marlboro Hsu

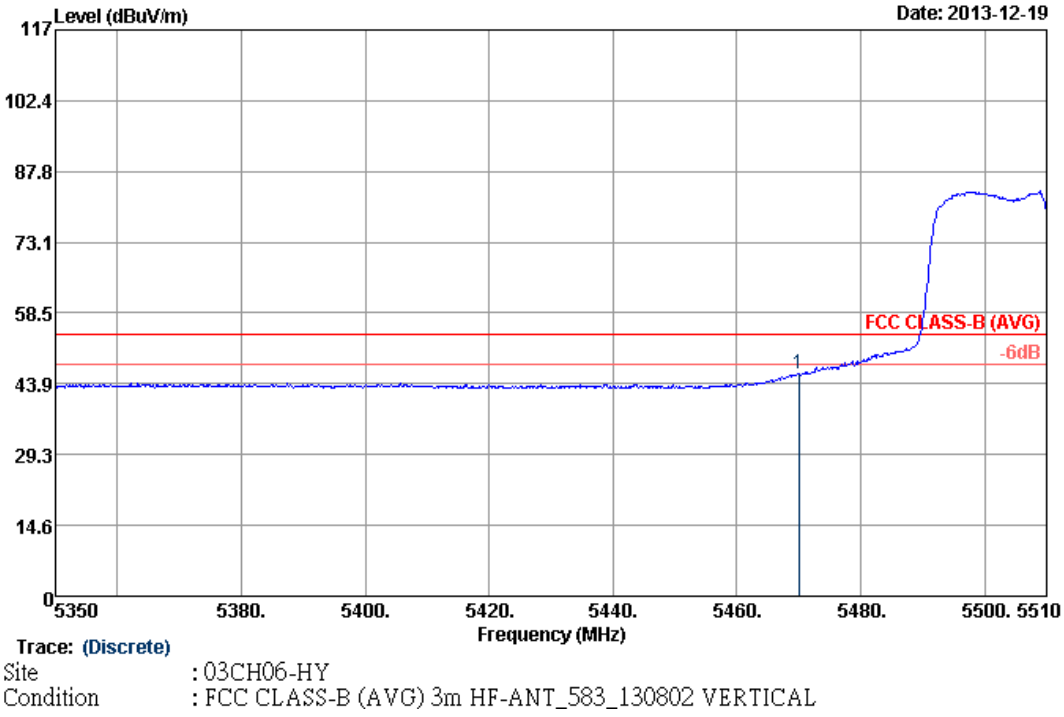


ANTENNA POLARITY : VERTICAL

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
5468.4	61.24	-12.76	74	48.8	34.77	10.89	33.22	100	263	Peak

Note: Worst case measurement on 5468.4 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 HT40	Temperature :	22~24
Test Band :	Low	Relative Humidity :	47~49
Test Channel :	102	Test Engineer :	Marlboro Hsu

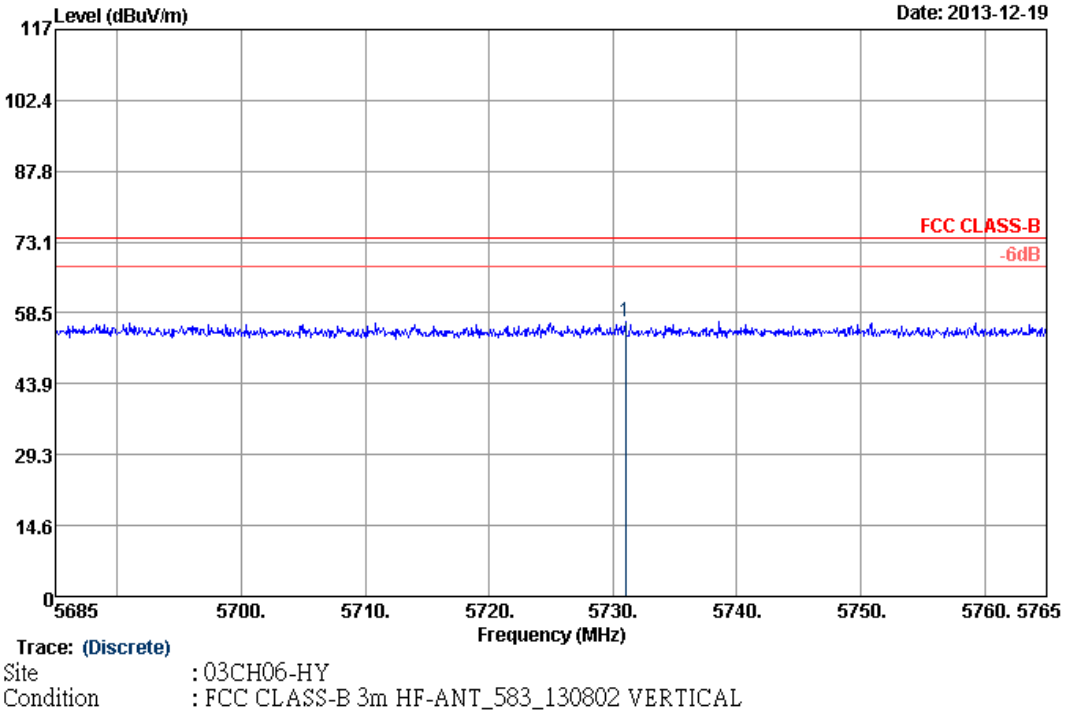


ANTENNA POLARITY : VERTICAL

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	45.98	-8.02	54	33.54	34.77	10.89	33.22	100	263	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 :	22~24
Test Band :	Low	Relative Humidity :	47~49
Test Channel :	102	Test Engineer :	Marlboro Hsu

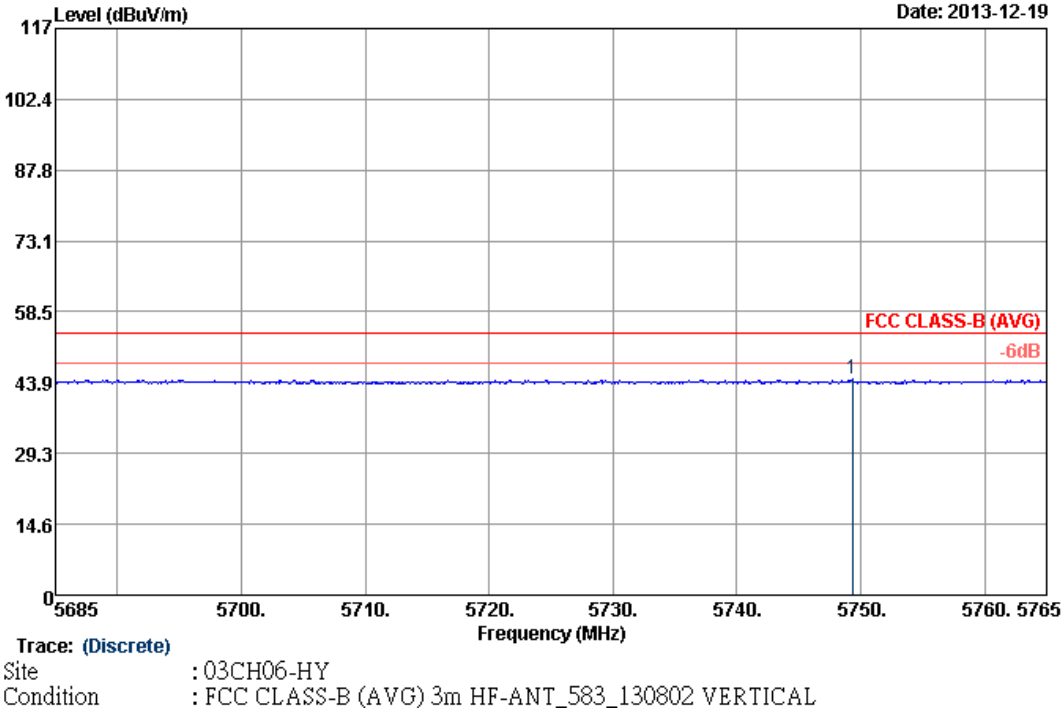


ANTENNA POLARITY : VERTICAL

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
5731	56.76	-17.24	74	43.7	35.02	11.34	33.3	100	263	Peak

Note: Worst case measurement on 5731 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 :	22~24
Test Band :	Low	Relative Humidity :	47~49
Test Channel :	102	Test Engineer :	Marlboro Hsu

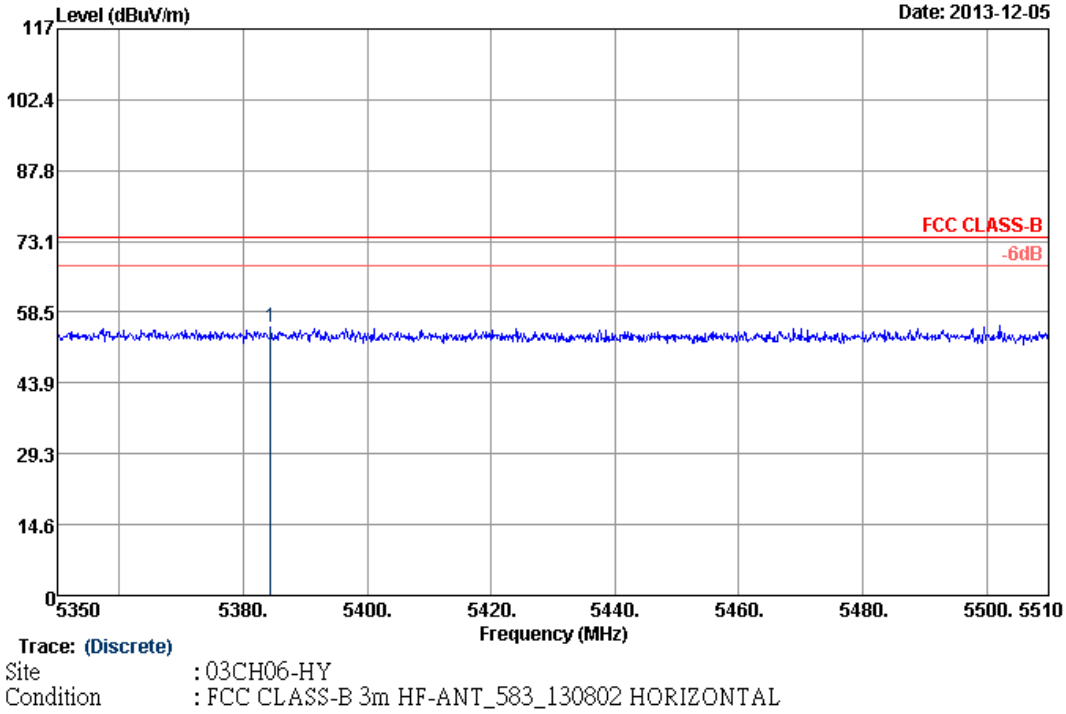


ANTENNA POLARITY : VERTICAL

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
5749.32	44.52	-9.48	54	31.39	35.04	11.39	33.3	100	263	Average

Note: Worst case measurement on 5749.32 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 :	22~24
Test Band :	High	Relative Humidity :	47~49
Test Channel :	134	Test Engineer :	Marlboro Hsu

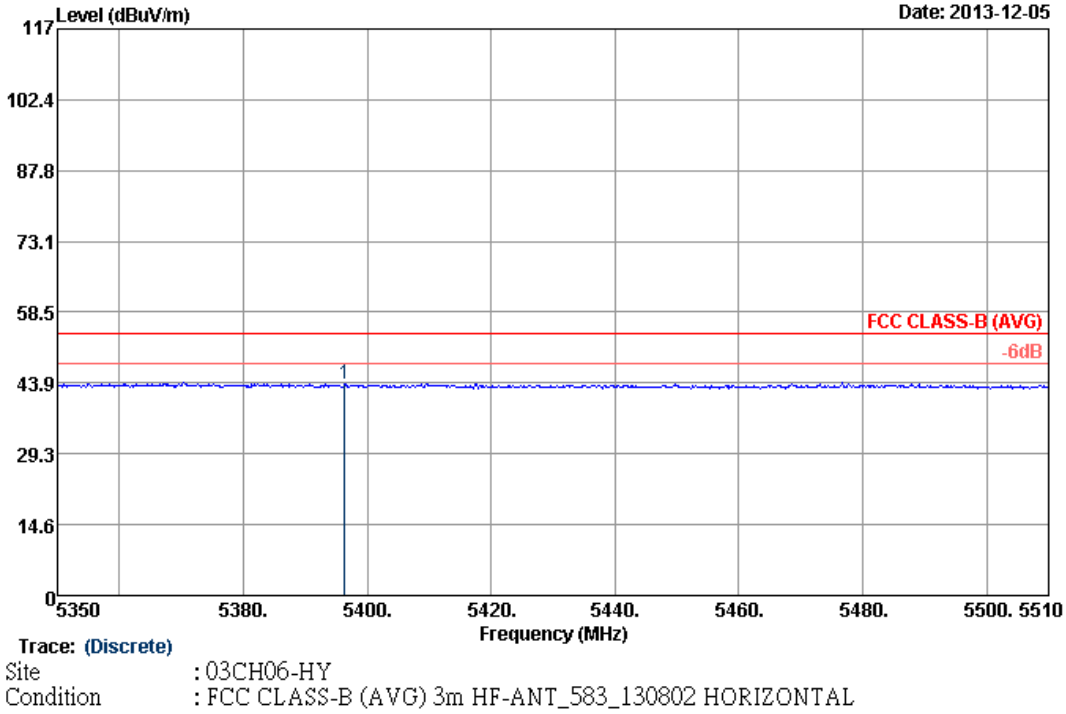


ANTENNA POLARITY : HORIZONTAL

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
5384.4	55.29	-18.71	74	43.07	34.68	10.79	33.25	100	270	Peak

Note: Worst case measurement on 5384.4 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. The test result is compliance with the FCC limit line.

Test Mode :	802.11n HT40	Temperature :	22~24
Test Band :	High	Relative Humidity :	47~49
Test Channel :	134	Test Engineer :	Marlboro Hsu

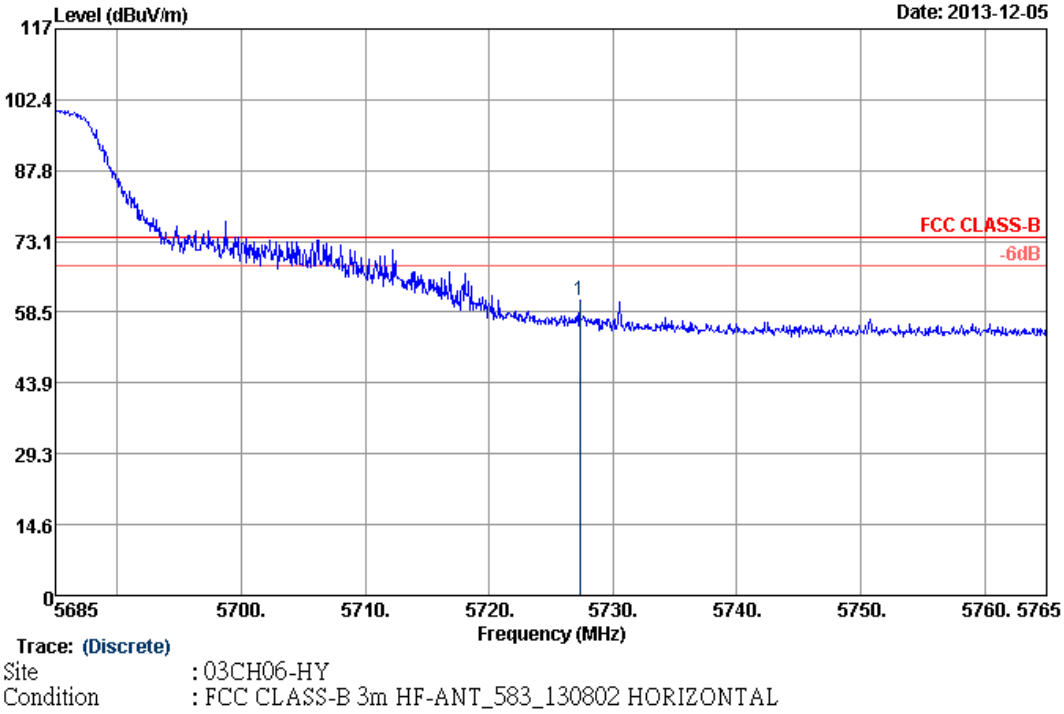


ANTENNA POLARITY : HORIZONTAL

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
5396.4	43.75	-10.25	54	31.51	34.7	10.79	33.25	100	270	Average

Note: Worst case measurement on 5396.4 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 :	22~24
Test Band :	High	Relative Humidity :	47~49
Test Channel :	134	Test Engineer :	Marlboro Hsu

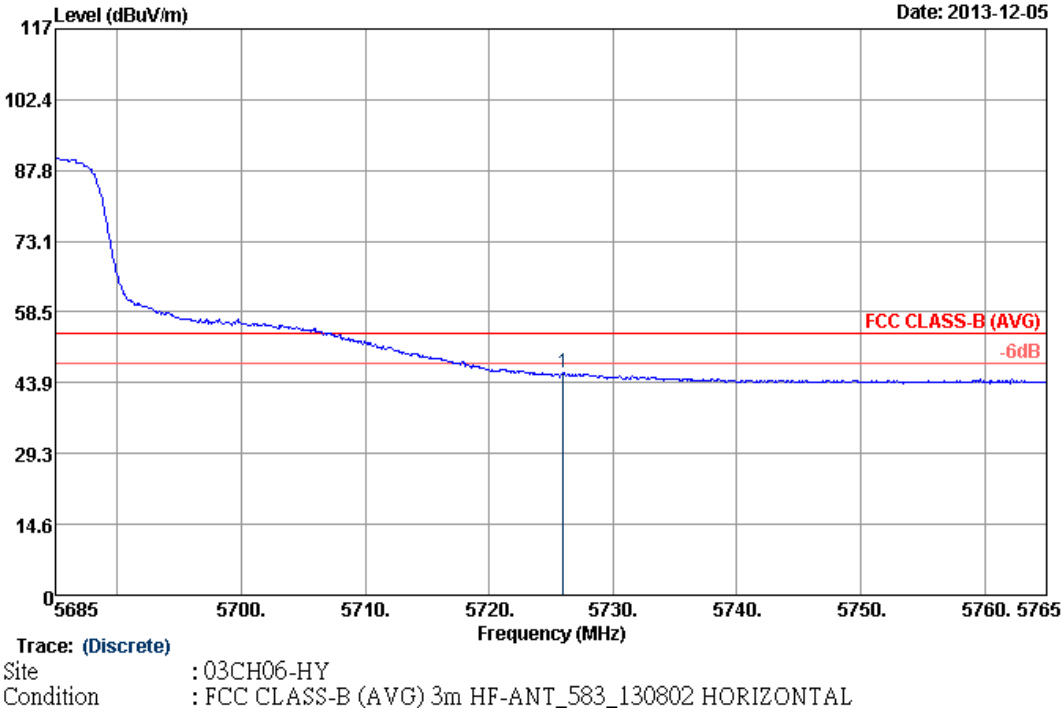


ANTENNA POLARITY : HORIZONTAL

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
5727.32	60.98	-13.02	74	47.91	35.02	11.34	33.29	100	354	Peak

Note: Worst case measurement on 5727.32 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 :	22~24
Test Band :	High	Relative Humidity :	47~49
Test Channel :	134	Test Engineer :	Marlboro Hsu

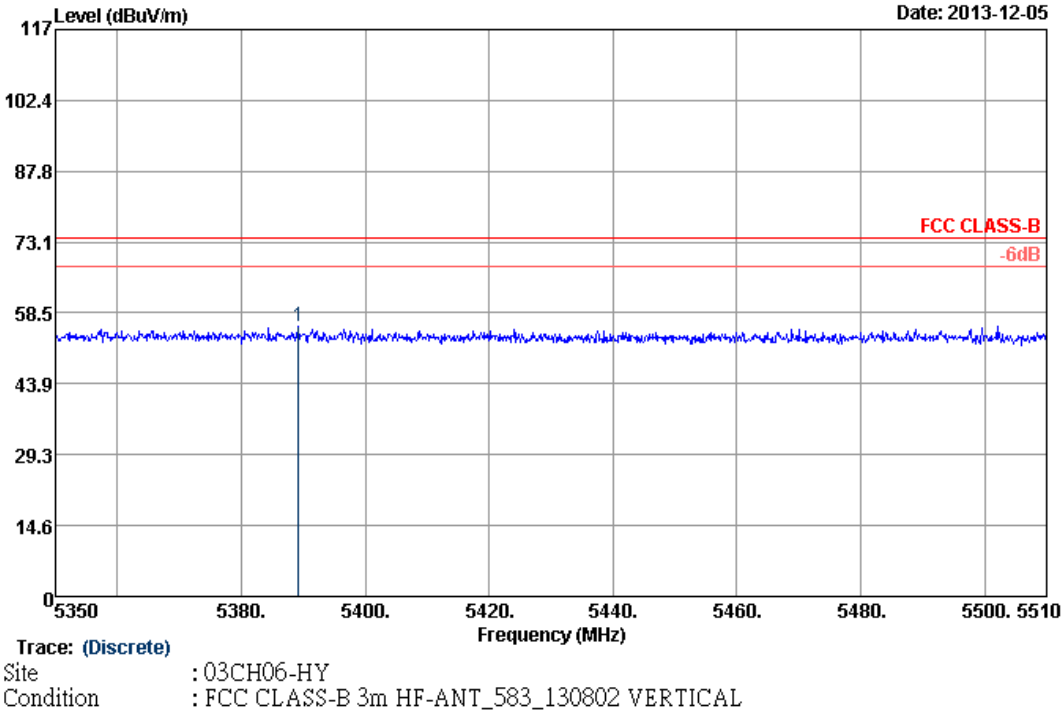


ANTENNA POLARITY : HORIZONTAL

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
5725.96	46.06	-7.94	54	32.99	35.02	11.34	33.29	100	354	Average

Note: Worst case measurement on 5725.96 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 :	22~24
Test Band :	High	Relative Humidity :	47~49
Test Channel :	134	Test Engineer :	Marlboro Hsu

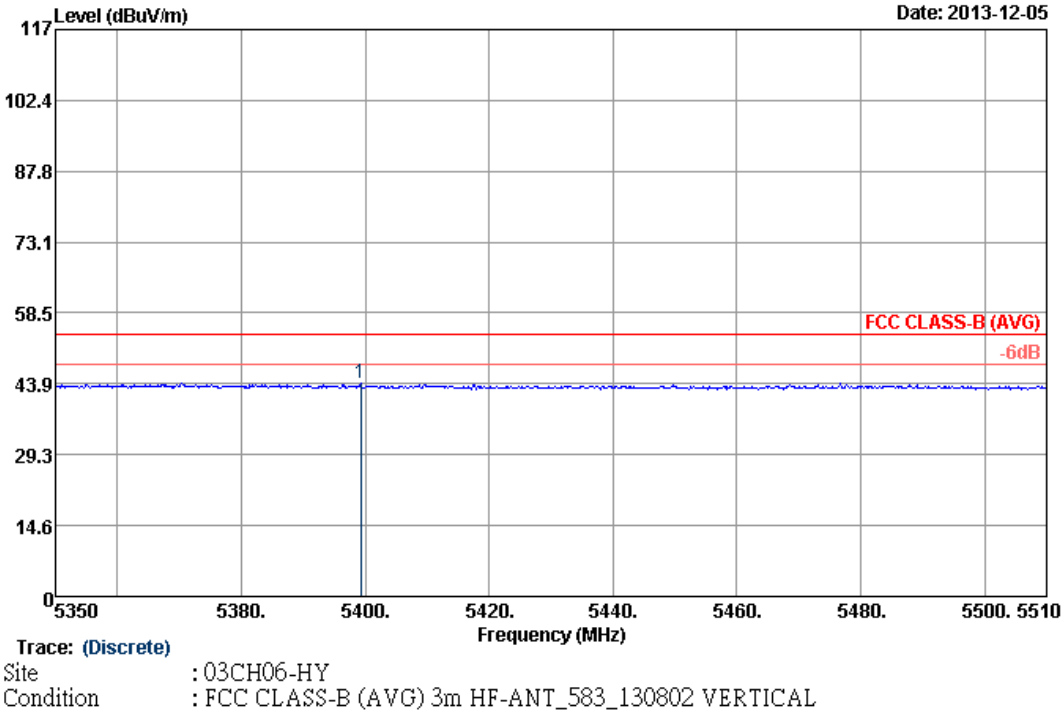


ANTENNA POLARITY : VERTICAL

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
5389.2	55.66	-18.34	74	43.44	34.68	10.79	33.25	100	270	Peak

Note: Worst case measurement on 5389.2 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 :	22~24
Test Band :	High	Relative Humidity :	47~49
Test Channel :	134	Test Engineer :	Marlboro Hsu

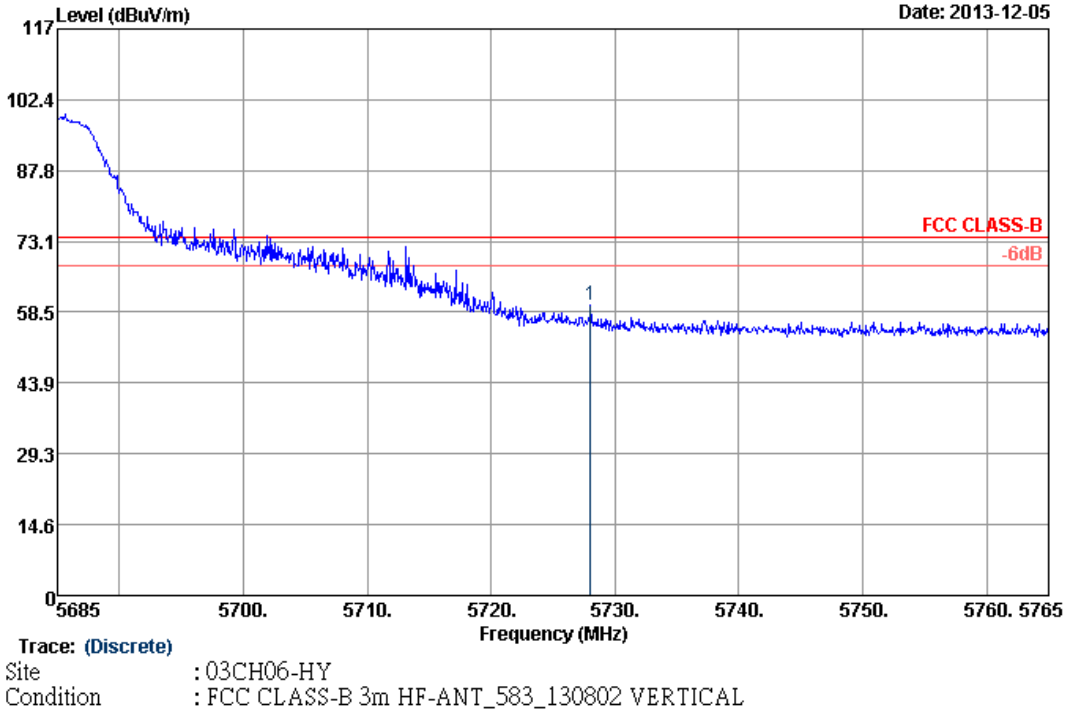


ANTENNA POLARITY : VERTICAL

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
5399.28	44.01	-9.99	54	31.76	34.7	10.79	33.24	100	270	Average

Note: Worst case measurement on 5399.28 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 :	22~24
Test Band :	High	Relative Humidity :	47~49
Test Channel :	134	Test Engineer :	Marlboro Hsu

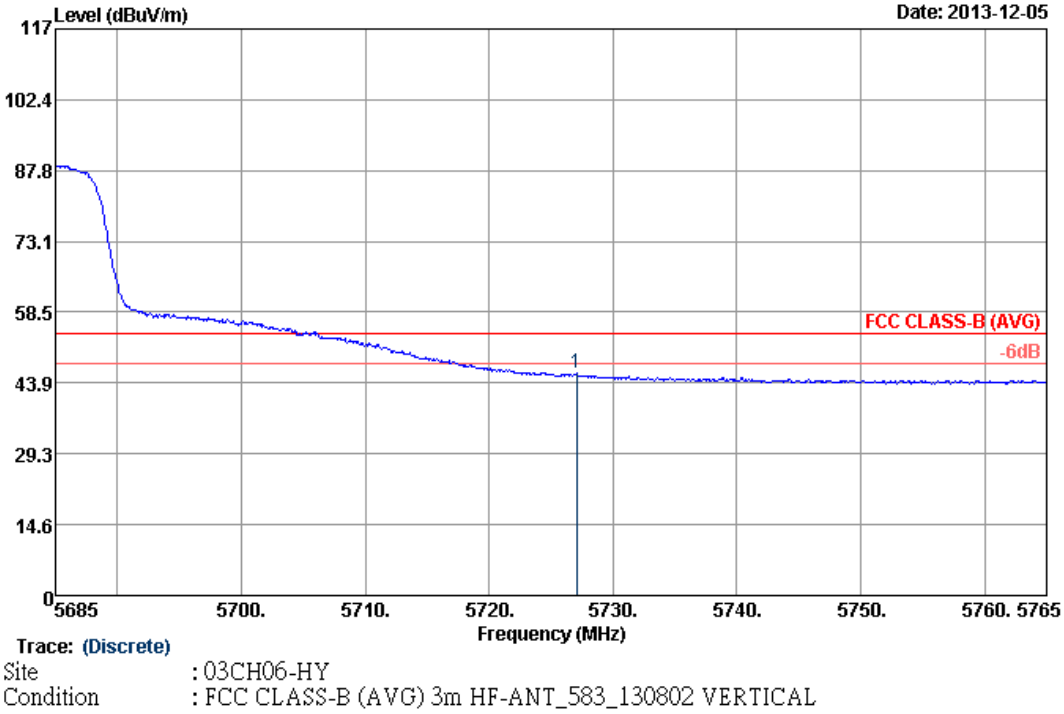


ANTENNA POLARITY : VERTICAL

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
5728.04	59.9	-14.1	74	46.83	35.02	11.34	33.29	100	270	Peak

Note: Worst case measurement on 5728.04 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 :	22~24
Test Band :	High	Relative Humidity :	47~49
Test Channel :	134	Test Engineer :	Marlboro Hsu



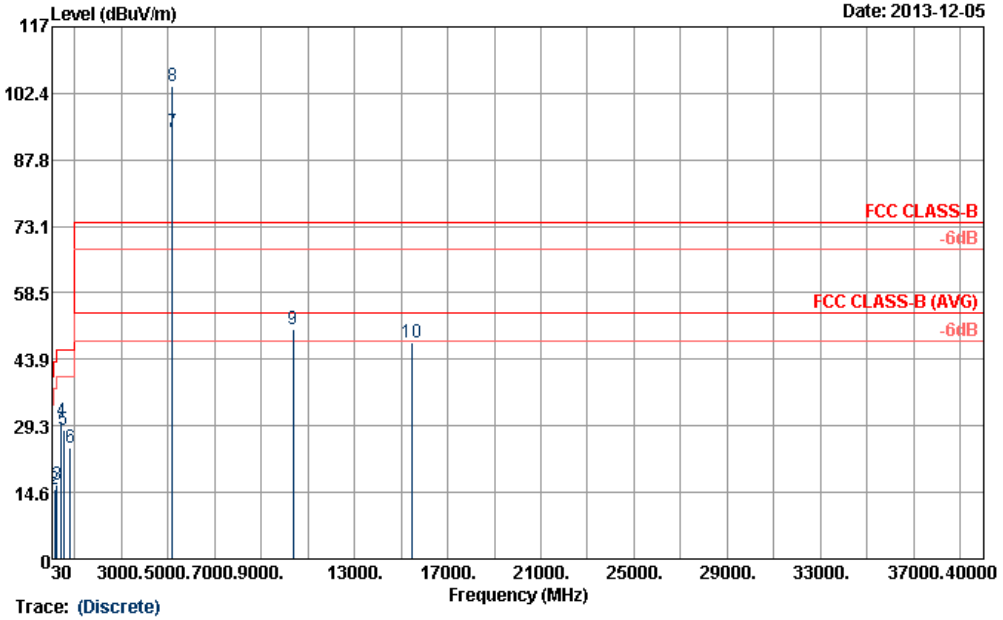
ANTENNA POLARITY : VERTICAL

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
5727.08	45.85	-8.15	54	32.78	35.02	11.34	33.29	100	270	Average

Note: Worst case measurement on 5727.08 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.

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

Test Mode :	802.11a	**Temperature :**	22~24℃
Test Channel :	36	**Relative Humidity :**	47~49%
Test Engineer :	Marlboro Hsu		
Remark :	1. 5179 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 (5th, 6th, 7th,…etc.) and other spurious are not reported, because those levels are lower than average limit line and background noise.		

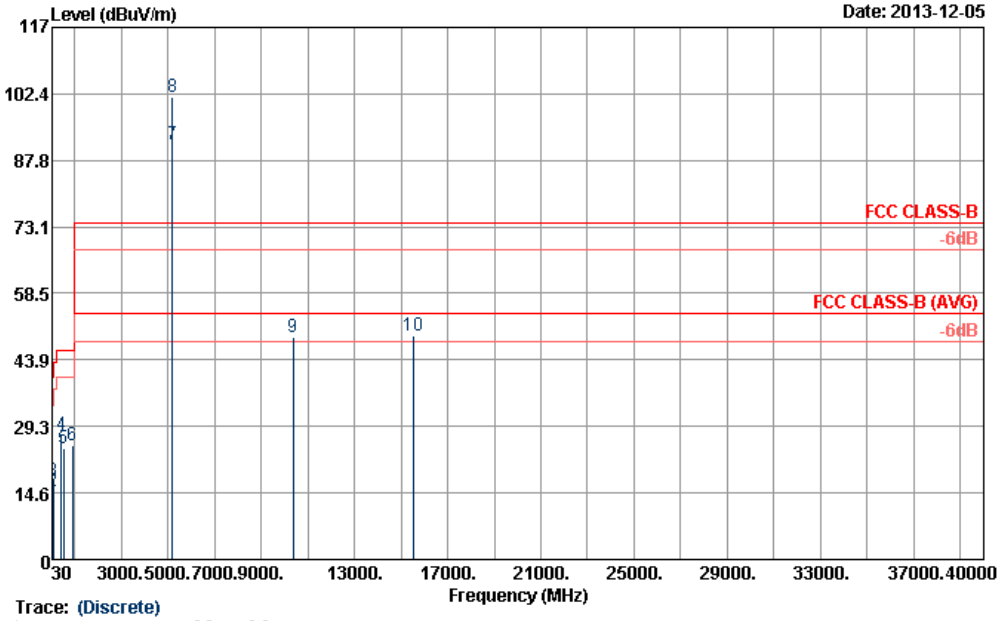


ANTENNA POLARITY : HORIZONTAL

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
30.54	15.5	-24.5	40	28.75	17.9	0.65	31.8	-	-	Peak
137.46	15.36	-28.14	43.5	34.51	11.3	1.3	31.75	-	-	Peak
239.25	16.17	-29.83	46	34.82	11.4	1.69	31.74	-	-	Peak
426	30.34	-15.66	46	43.14	16.8	2.25	31.85	100	157	Peak
525.4	28.28	-17.72	46	39.54	18.18	2.52	31.96	-	-	Peak
804	24.28	-21.72	46	33.06	20.08	3.07	31.93	-	-	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
5179	93.84	-	-	82.23	34.48	10.47	33.34	173	281	Average
5179	103.87	-	-	92.26	34.48	10.47	33.34	173	281	Peak
10359	50.46	-23.54	74	58.01	37.17	10.64	55.36	100	0	Peak
15441	47.59	-26.41	74	49.89	39.71	11.82	53.83	100	0	Peak
Other harmonics are lower than background noise										

Test Mode :	802.11a	Temperature :	22~24℃
Test Channel :	36	Relative Humidity :	47~49%
Test Engineer :	Marlboro Hsu		
Remark :	1. 5179 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 (5th ,6th , 7th,…etc.) and other spurious are not reported, because those levels are lower than average limit line and background noise		



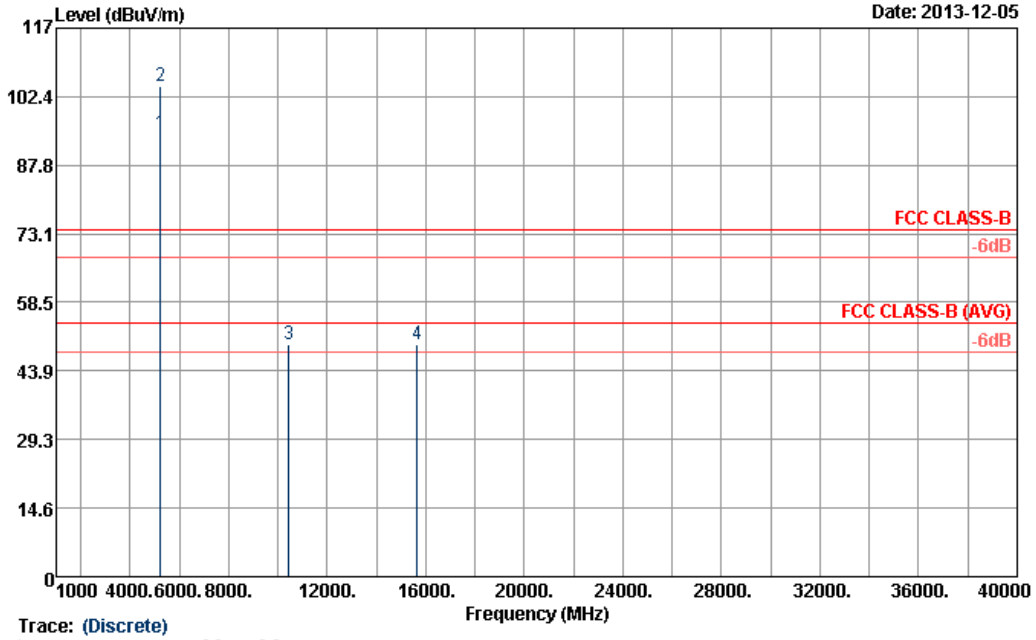
Site : 03CH06-HY
Condition : FCC CLASS-B 3m SHF-EHF VERTICAL

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	30.87	-9.13	40	43.53	18.5	0.64	31.8	100	37	Peak
67.26	14.89	-25.11	40	39.48	6.26	0.92	31.77	-	-	Peak
91.56	17.33	-26.17	43.5	39.13	8.9	1.06	31.76	-	-	Peak
434.4	27.4	-18.6	46	40.18	16.8	2.28	31.86	-	-	Peak
522.6	24.57	-21.43	46	35.93	18.09	2.51	31.96	-	-	Peak
912.5	24.98	-21.02	46	32.01	21.03	3.36	31.42	-	-	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
5179	91.23	-	-	79.62	34.48	10.47	33.34	138	360	Average
5179	101.82	-	-	90.21	34.48	10.47	33.34	138	360	Peak
10359	49.02	-24.98	74	56.57	37.17	10.64	55.36	100	0	Peak
15540	49.17	-24.83	74	51.47	39.73	11.79	53.82	100	0	Peak
Other harmonics are lower than background noise										

Test Mode :	802.11a	Temperature :	22~24℃
Test Channel :	44	Relative Humidity :	47~49%
Test Engineer :	Marlboro Hsu		
Remark :	1. 5219 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 (5th ,6th , 7th,…etc.) and other spurious are not reported, because those levels are lower than average limit line and background noise		

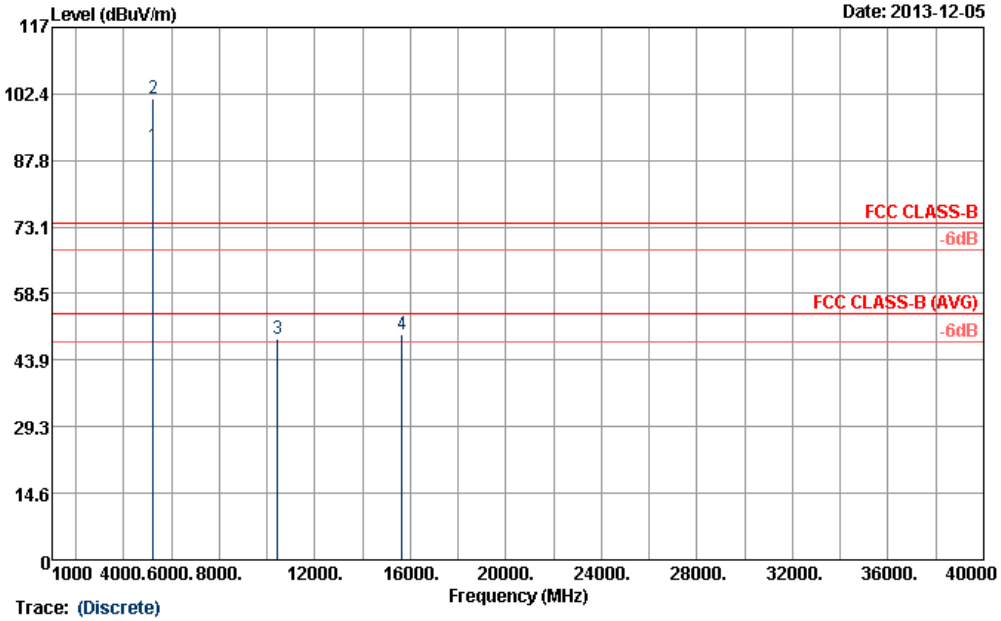


ANTENNA POLARITY : HORIZONTAL

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
5219	94.37	-	-	82.64	34.52	10.54	33.33	158	275	Average
5219	104.57	-	-	92.84	34.52	10.54	33.33	158	275	Peak
10440	49.69	-24.31	74	57.09	37.23	10.65	55.28	100	0	Peak
15660	49.49	-24.51	74	51.44	39.86	11.75	53.56	100	0	Peak

Other harmonics are lower than background noise

Test Mode :	802.11a	Temperature :	22~24℃
Test Channel :	44	Relative Humidity :	47~49%
Test Engineer :	Marlboro Hsu		
Remark :	1. 5219 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 (5th ,6th , 7th,…etc.) and other spurious are not reported, because those levels are lower than average limit line and background noise		

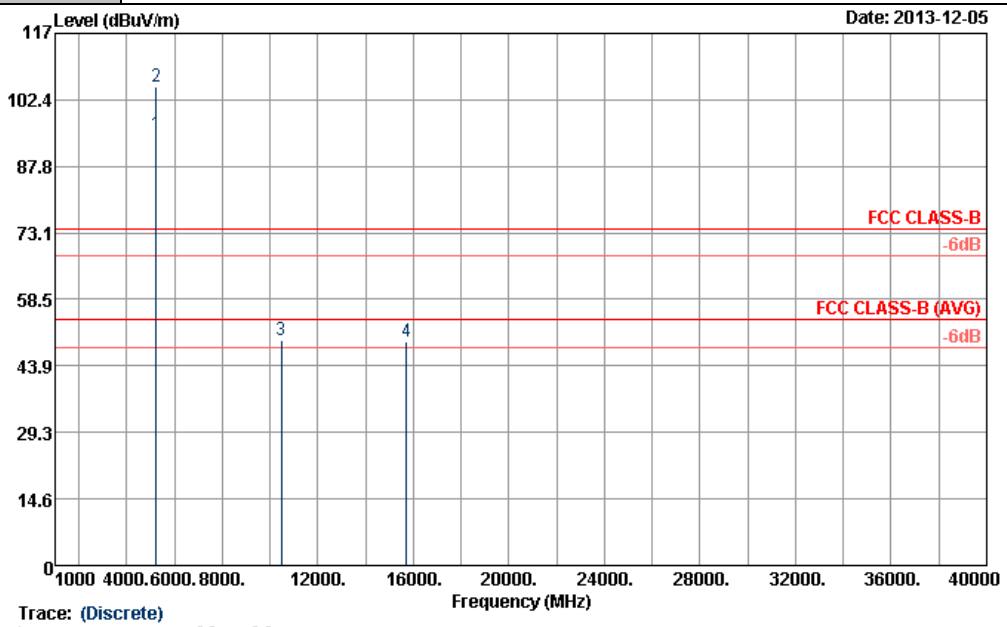


ANTENNA POLARITY : VERTICAL

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
5219	91.07	-	-	79.34	34.52	10.54	33.33	100	347	Average
5219	101.46	-	-	89.73	34.52	10.54	33.33	100	347	Peak
10440	48.63	-25.37	74	56.03	37.23	10.65	55.28	100	0	Peak
15660	49.53	-24.47	74	51.48	39.86	11.75	53.56	100	0	Peak

Other harmonics are lower than background noise

Test Mode :	802.11a	Temperature :	22~24℃
Test Channel :	48	Relative Humidity :	47~49%
Test Engineer :	Marlboro Hsu		
Remark :	1. 5239 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 (5th ,6th , 7th,…etc.) and other spurious are not reported, because those levels are lower than average limit line and background noise		

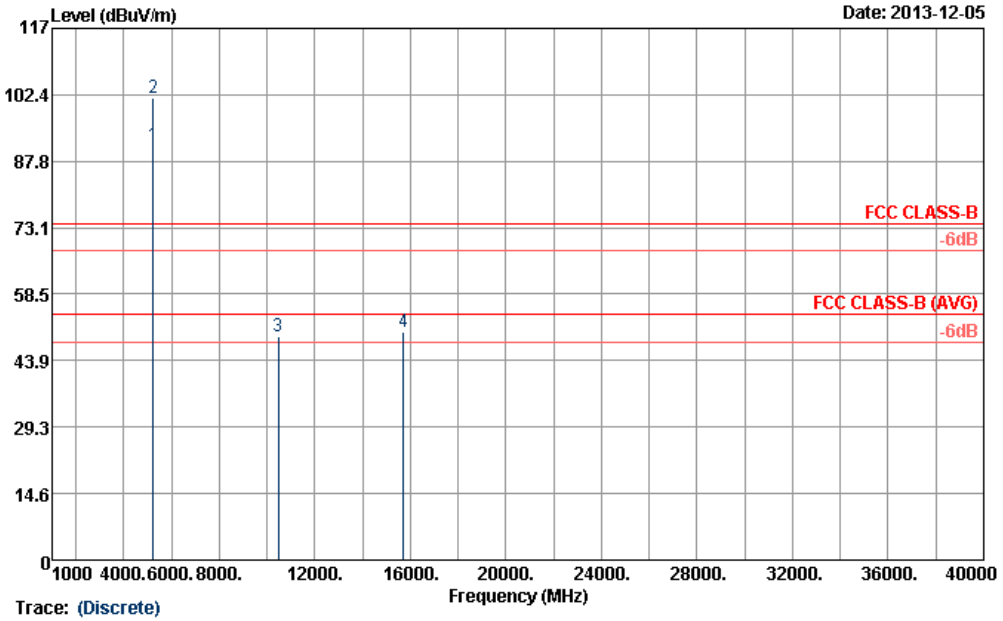


ANTENNA POLARITY : HORIZONTAL

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
5239	95	-	-	83.21	34.53	10.58	33.32	141	280	Average
5239	105.25	-	-	93.46	34.53	10.58	33.32	141	280	Peak
10479	49.46	-24.54	74	56.74	37.28	10.66	55.22	100	0	Peak
15720	49.07	-24.93	74	50.82	39.92	11.74	53.41	100	0	Peak

Other harmonics are lower than background noise

Test Mode :	802.11a	Temperature :	22~24℃
Test Channel :	48	Relative Humidity :	47~49%
Test Engineer :	Marlboro Hsu		
Remark :	1. 5239 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 (5th ,6th , 7th,…etc.) and other spurious are not reported, because those levels are lower than average limit line and background noise		

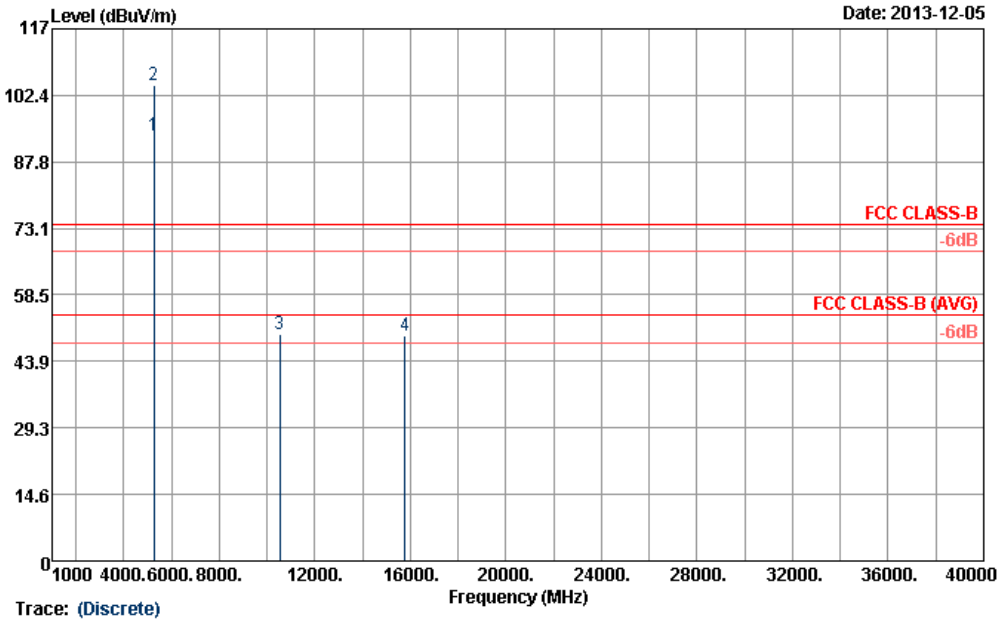


ANTENNA POLARITY : VERTICAL

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
5239	91.24	-	-	79.45	34.53	10.58	33.32	100	317	Average
5239	101.75	-	-	89.96	34.53	10.58	33.32	100	317	Peak
10479	49.06	-24.94	74	56.34	37.28	10.66	55.22	100	0	Peak
15720	50.27	-23.73	74	52.02	39.92	11.74	53.41	100	0	Peak

Other harmonics are lower than background noise

Test Mode :	802.11a	Temperature :	22~24℃
Test Channel :	52	Relative Humidity :	47~49%
Test Engineer :	Marlboro Hsu		
Remark :	1. 5261 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 (5th ,6th , 7th,…etc.) and other spurious are not reported, because those levels are lower than average limit line and background noise		



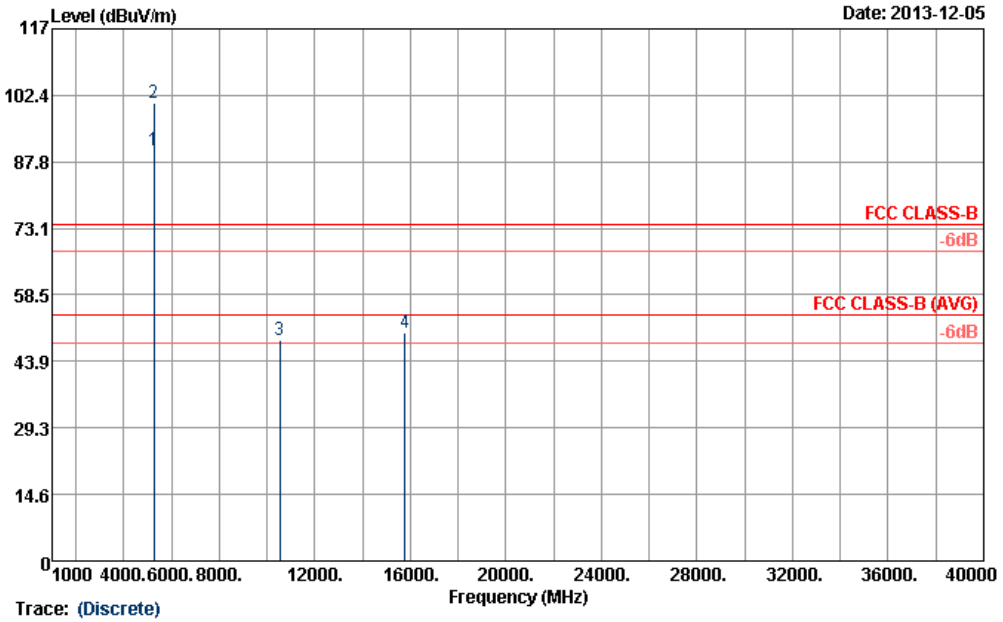
Site : 03CH06-HY
Condition : FCC CLASS-B 3m SHF-EHF HORIZONTAL

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
5261	93.47	-	-	81.6	34.57	10.61	33.31	100	283	Average
5261	104.48	-	-	92.61	34.57	10.61	33.31	100	283	Peak
10521	49.93	-24.07	74	57.13	37.31	10.67	55.18	100	0	Peak
15780	49.68	-24.32	74	51.27	39.98	11.72	53.29	100	0	Peak

Other harmonics are lower than background noise

Test Mode :	802.11a	Temperature :	22~24℃
Test Channel :	52	Relative Humidity :	47~49%
Test Engineer :	Marlboro Hsu		
Remark :	1. 5259 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 (5th ,6th , 7th,…etc.) and other spurious are not reported, because those levels are lower than average limit line and background noise		



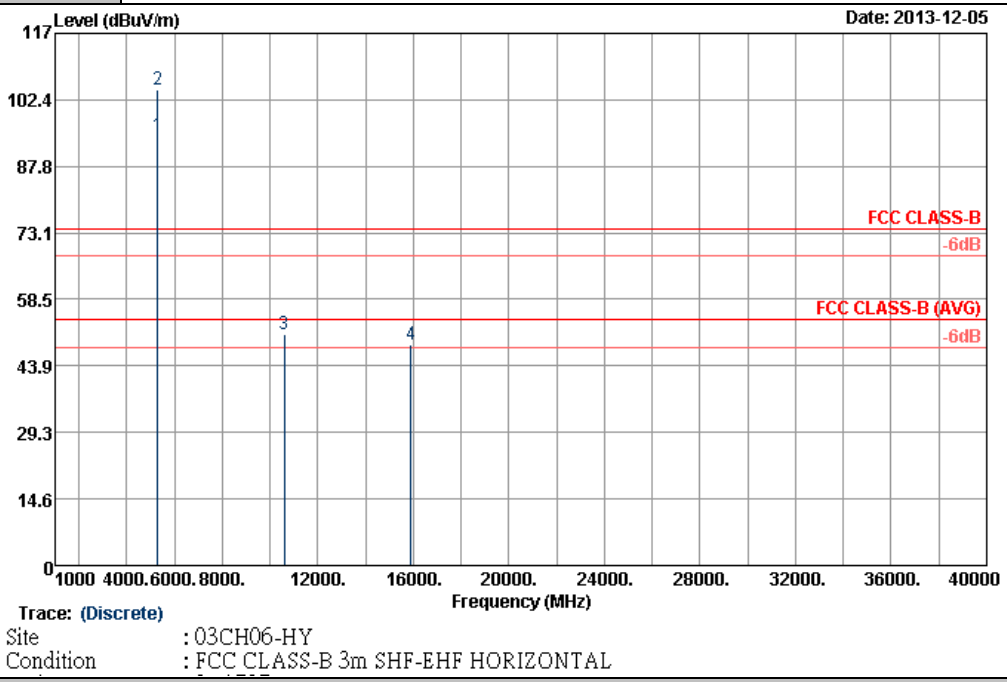
Site : 03CH06-HY
Condition : FCC CLASS-B 3m SHF-EHF VERTICAL

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
5259	90.18	-	-	78.34	34.57	10.58	33.31	100	120	Average
5259	100.69	-	-	88.85	34.57	10.58	33.31	100	120	Peak
10521	48.44	-25.56	74	55.64	37.31	10.67	55.18	100	0	Peak
15780	50.15	-23.85	74	51.74	39.98	11.72	53.29	100	0	Peak

Other harmonics are lower than background noise

Test Mode :	802.11a	**Temperature :**	22~24℃
Test Channel :	60	**Relative Humidity :**	47~49%
Test Engineer :	Marlboro Hsu		
Remark :	1. 5301 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 (5th ,6th , 7th,…etc.) and other spurious are not reported, because those levels are lower than average limit line and background noise		

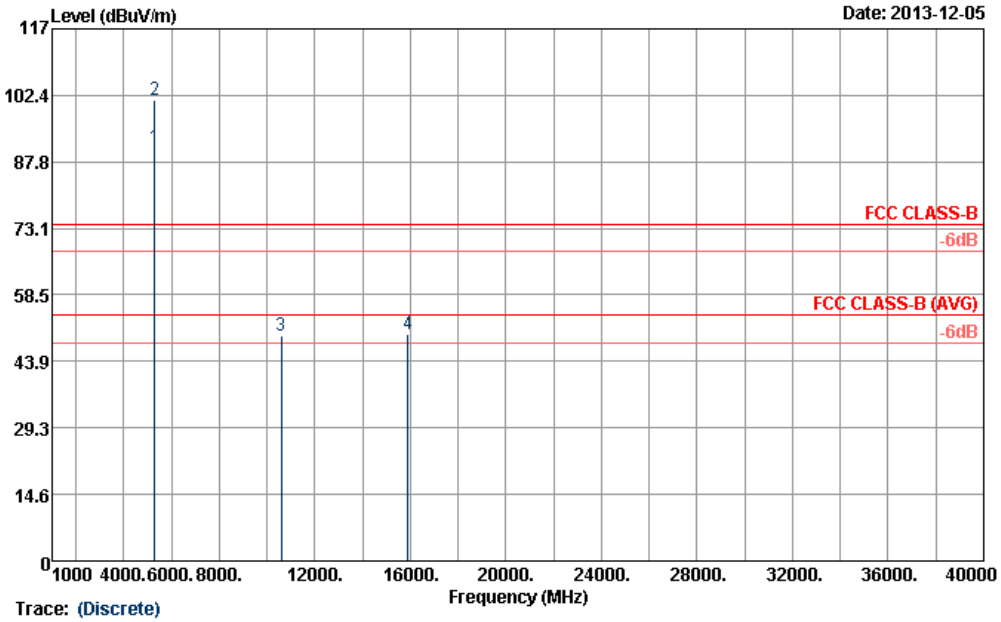


ANTENNA POLARITY : HORIZONTAL

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
5301	94.43	-	-	82.47	34.6	10.65	33.29	100	272	Average
5301	104.5	-	-	92.54	34.6	10.65	33.29	100	272	Peak
10599	50.82	-23.18	74	57.86	37.36	10.68	55.08	100	0	Peak
15900	48.67	-25.33	74	49.92	40.1	11.68	53.03	100	0	Peak

Other harmonics are lower than background noise

Test Mode :	802.11a	**Temperature :**	22~24℃
Test Channel :	60	**Relative Humidity :**	47~49%
Test Engineer :	Marlboro Hsu		
Remark :	1. 5301 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 (5th ,6th , 7th,…etc.) and other spurious are not reported, because those levels are lower than average limit line and background noise		



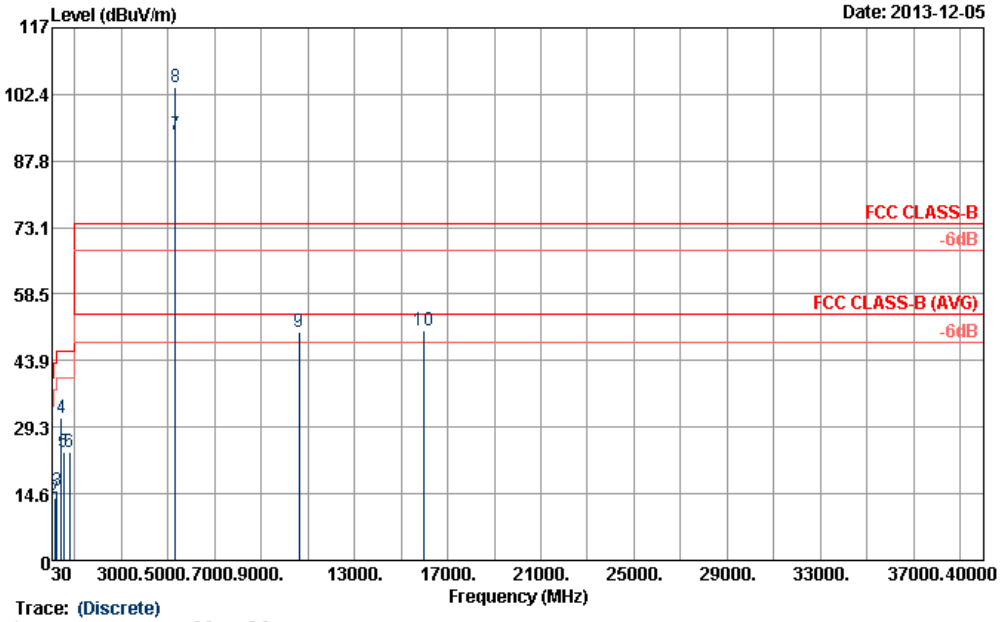
Site : 03CH06-HY
Condition : FCC CLASS-B 3m SHF-EHF VERTICAL

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
5301	90.92	-	-	78.96	34.6	10.65	33.29	100	105	Average
5301	101.38	-	-	89.42	34.6	10.65	33.29	100	105	Peak
10599	49.46	-24.54	74	56.5	37.36	10.68	55.08	100	0	Peak
15900	49.78	-24.22	74	51.03	40.1	11.68	53.03	100	0	Peak

Other harmonics are lower than background noise

Test Mode :	802.11a	Temperature :	22~24℃
Test Channel :	64	Relative Humidity :	47~49%
Test Engineer :	Marlboro Hsu		
Remark :	1. 5319 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 (5th ,6th , 7th,…etc.) and other spurious are not reported, because those levels are lower than average limit line and background noise		

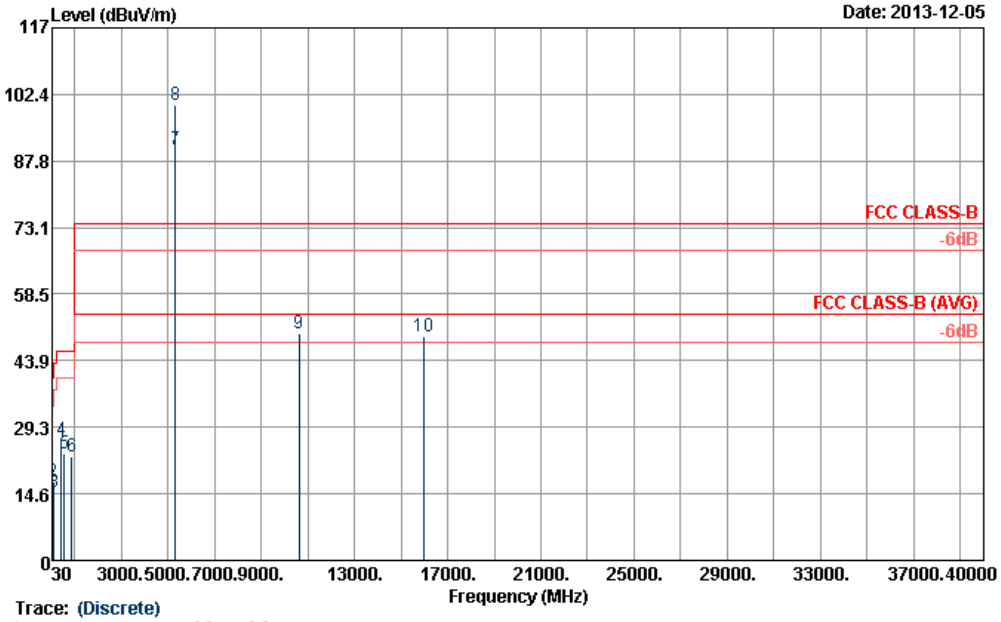


ANTENNA POLARITY : HORIZONTAL

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	16.59	-23.41	40	29.25	18.5	0.64	31.8	-	-	Peak
137.46	13.83	-29.67	43.5	32.98	11.3	1.3	31.75	-	-	Peak
227.1	15.39	-30.61	46	35.59	9.9	1.64	31.74	-	-	Peak
426	31.25	-14.75	46	44.05	16.8	2.25	31.85	100	57	Peak
525.4	23.84	-22.16	46	35.1	18.18	2.52	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
5319	93.54	-	-	81.53	34.62	10.68	33.29	100	272	Average
5319	103.8	-	-	91.79	34.62	10.68	33.29	100	272	Peak
10641	50.17	-23.83	74	57.13	37.38	10.69	55.03	100	0	Peak
15960	50.59	-23.41	74	51.64	40.17	11.66	52.88	100	0	Peak
Other harmonics are lower than background noise										

Test Mode :	802.11a	Temperature :	22~24℃
Test Channel :	64	Relative Humidity :	47~49%
Test Engineer :	Marlboro Hsu		
Remark :	1. 5321 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 (5th ,6th , 7th,…etc.) and other spurious are not reported, because those levels are lower than average limit line and background noise		

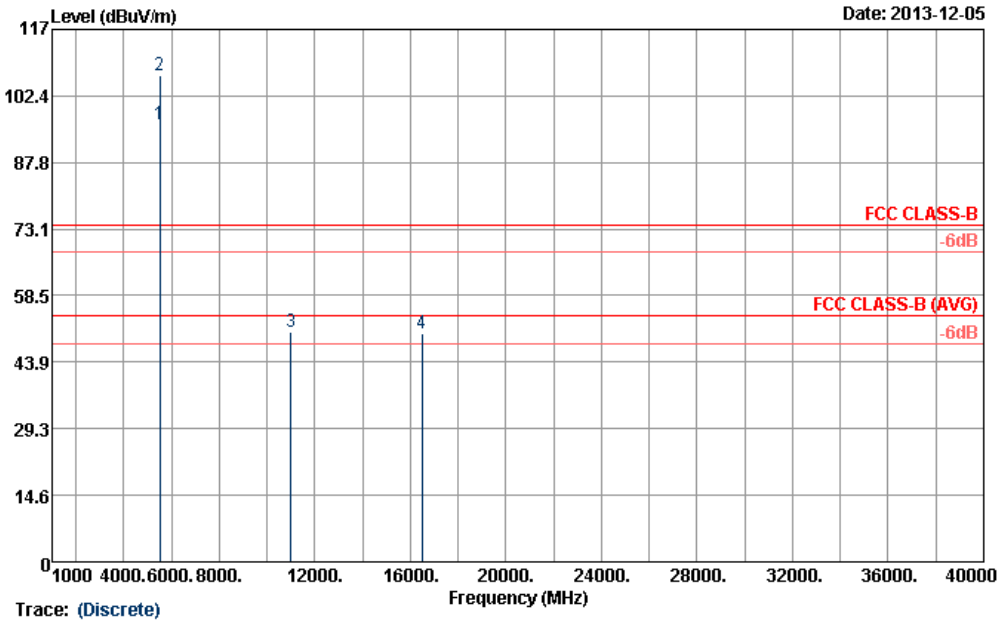


ANTENNA POLARITY : VERTICAL

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
30.54	29.45	-10.55	40	42.7	17.9	0.65	31.8	100	132	Peak
92.64	17.33	-26.17	43.5	38.51	9.5	1.07	31.75	-	-	Peak
115.86	14.84	-28.66	43.5	33.36	12.04	1.19	31.75	-	-	Peak
433	26.48	-19.52	46	39.27	16.8	2.27	31.86	-	-	Peak
553.4	23.49	-22.51	46	33.51	19.42	2.56	32	-	-	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
5321	90.2	-	-	78.19	34.62	10.68	33.29	100	117	Average
5321	100.2	-	-	88.19	34.62	10.68	33.29	100	117	Peak
10641	49.84	-24.16	74	56.8	37.38	10.69	55.03	100	0	Peak
15960	49.3	-24.7	74	50.35	40.17	11.66	52.88	100	0	Peak
Other harmonics are lower than background noise										

Test Mode :	802.11a	Temperature :	22~24℃
Test Channel :	100	Relative Humidity :	47~49%
Test Engineer :	Marlboro Hsu		
Remark :	1. 5499 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 (5th ,6th , 7th,…etc.) and other spurious are not reported, because those levels are lower than average limit line and background noise		



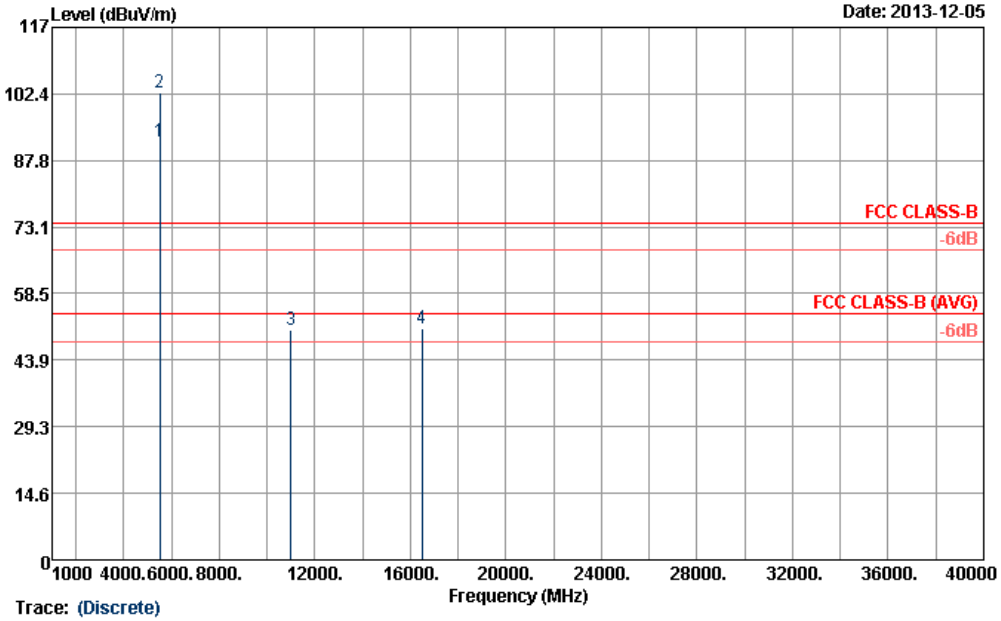
Site : 03CH06-HY
Condition : FCC CLASS-B 3m SHF-EHF HORIZONTAL

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
5499	96.28	-	-	83.76	34.8	10.93	33.21	100	349	Average
5499	106.95	-	-	94.43	34.8	10.93	33.21	100	349	Peak
11001	50.64	-23.36	74	56.88	37.6	10.76	54.6	100	0	Peak
16500	50.2	-23.8	74	50.68	41	11.82	53.3	100	0	Peak

Other harmonics are lower than background noise

Test Mode :	802.11a	Temperature :	22~24℃
Test Channel :	100	Relative Humidity :	47~49%
Test Engineer :	Marlboro Hsu		
Remark :	1. 5501 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 (5th ,6th , 7th,…etc.) and other spurious are not reported, because those levels are lower than average limit line and background noise		



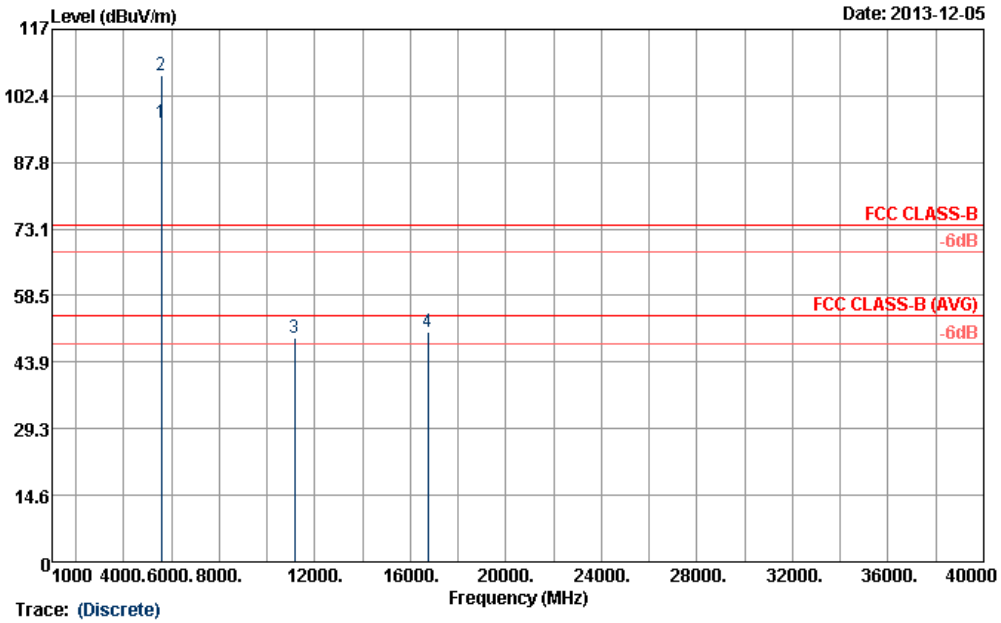
Site : 03CH06-HY
Condition : FCC CLASS-B 3m SHF-EHF VERTICAL

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
5501	91.86	-	-	79.32	34.8	10.96	33.22	114	241	Average
5501	102.64	-	-	90.1	34.8	10.96	33.22	114	241	Peak
11001	50.62	-23.38	74	56.86	37.6	10.76	54.6	100	0	Peak
16500	50.74	-23.26	74	51.22	41	11.82	53.3	100	0	Peak

Other harmonics are lower than background noise

Test Mode :	802.11a	**Temperature :**	22~24℃
Test Channel :	116	**Relative Humidity :**	47~49%
Test Engineer :	Marlboro Hsu		
Remark :	1. 5581 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 (5th ,6th , 7th,…etc.) and other spurious are not reported, because those levels are lower than average limit line and background noise		



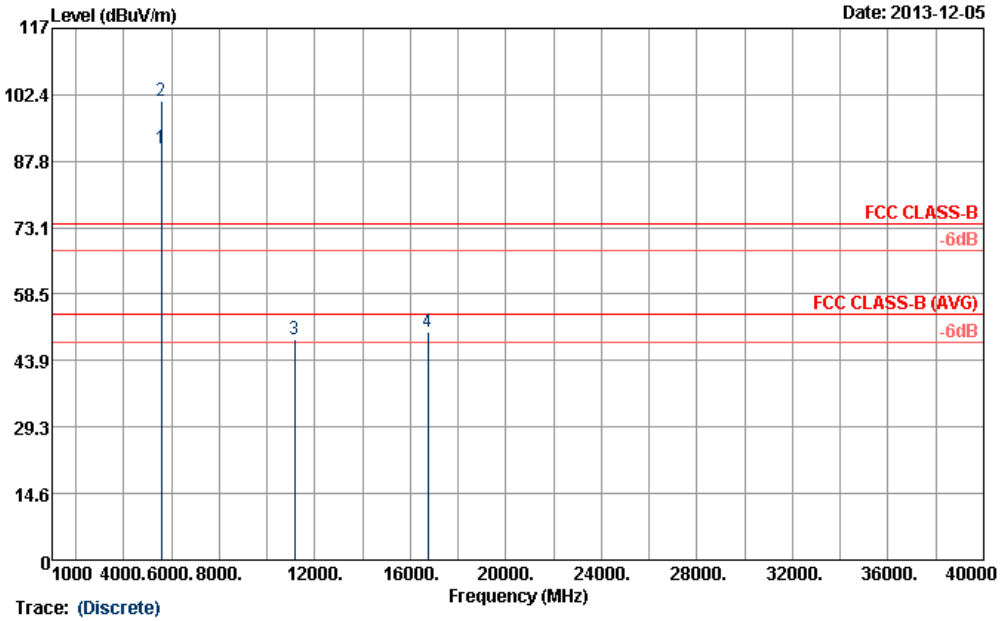
Site : 03CH06-HY
Condition : FCC CLASS-B 3m SHF-EHF HORIZONTAL

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
5581	96.62	-	-	83.91	34.87	11.09	33.25	100	352	Average
5581	107.06	-	-	94.35	34.87	11.09	33.25	100	352	Peak
11160	49.15	-24.85	74	54.97	37.67	10.84	54.33	100	0	Peak
16740	50.46	-23.54	74	50.42	41.24	11.91	53.11	100	0	Peak

Other harmonics are lower than background noise

Test Mode :	802.11a	Temperature :	22~24℃
Test Channel :	116	Relative Humidity :	47~49%
Test Engineer :	Marlboro Hsu		
Remark :	1. 5581 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 (5th ,6th , 7th,…etc.) and other spurious are not reported, because those levels are lower than average limit line and background noise		



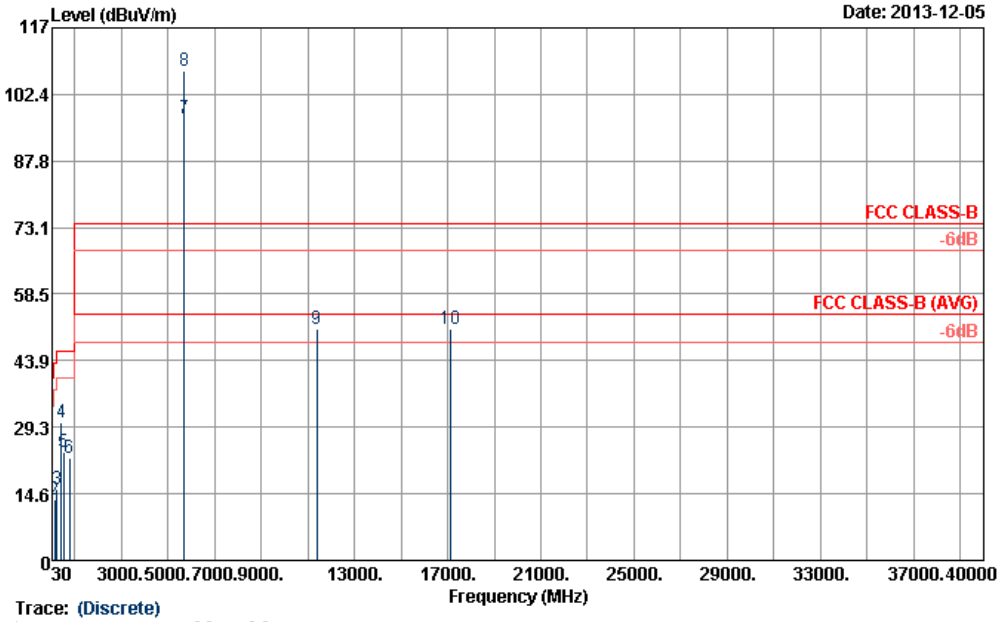
Site : 03CH06-HY
Condition : FCC CLASS-B 3m SHF-EHF VERTICAL

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
5581	90.48	-	-	77.77	34.87	11.09	33.25	100	246	Average
5581	101	-	-	88.29	34.87	11.09	33.25	100	246	Peak
11160	48.43	-25.57	74	54.25	37.67	10.84	54.33	100	0	Peak
16740	50.26	-23.74	74	50.22	41.24	11.91	53.11	100	0	Peak

Other harmonics are lower than background noise

Test Mode :	802.11a	Temperature :	22~24℃
Test Channel :	140	Relative Humidity :	47~49%
Test Engineer :	Marlboro Hsu		
Remark :	1. 5699 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 (5th ,6th , 7th,…etc.) and other spurious are not reported, because those levels are lower than average limit line and background noise		

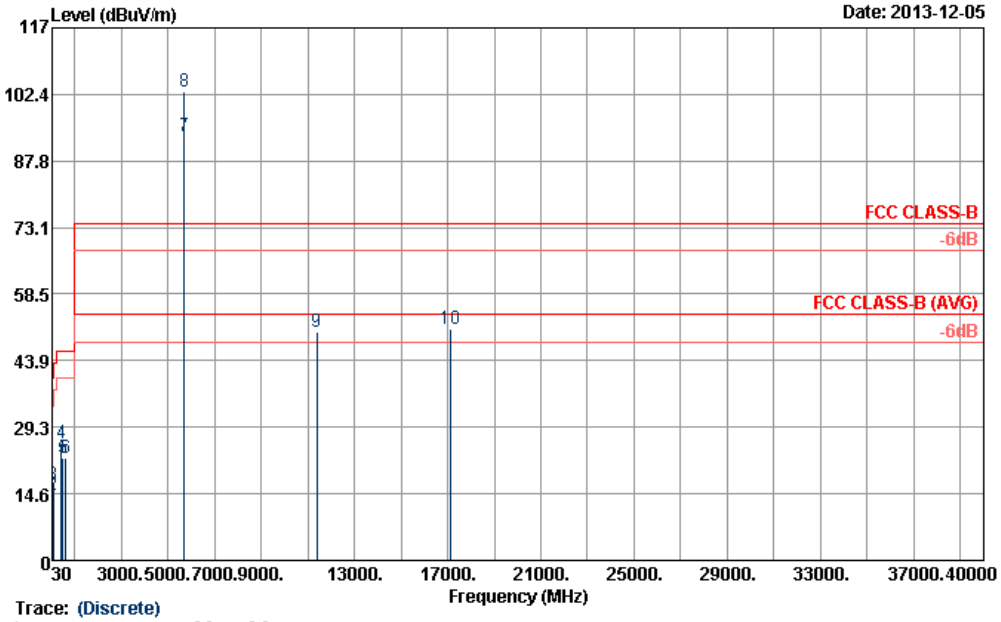


ANTENNA POLARITY : HORIZONTAL

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	17.66	-22.34	40	30.32	18.5	0.64	31.8	-	-	Peak
130.44	13.46	-30.04	43.5	32.5	11.44	1.27	31.75	-	-	Peak
223.86	15.53	-30.47	46	36.03	9.6	1.64	31.74	-	-	Peak
429.5	30.36	-15.64	46	43.15	16.8	2.26	31.85	100	106	Peak
531	23.93	-22.07	46	35.01	18.37	2.52	31.97	-	-	Peak
784.4	22.63	-23.37	46	31.38	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
5699	96.97	-	-	83.96	34.99	11.3	33.28	100	359	Average
5699	107.41	-	-	94.4	34.99	11.3	33.28	100	359	Peak
11400	50.79	-23.21	74	56	37.76	10.99	53.96	100	0	Peak
17100	50.85	-23.15	74	50.49	41.34	12.12	53.1	100	0	Peak
Other harmonics are lower than background noise										

Test Mode :	802.11a	Temperature :	22~24℃
Test Channel :	140	Relative Humidity :	47~49%
Test Engineer :	Marlboro Hsu		
Remark :	1. 5701 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 (5th ,6th , 7th,…etc.) and other spurious are not reported, because those levels are lower than average limit line and background noise		



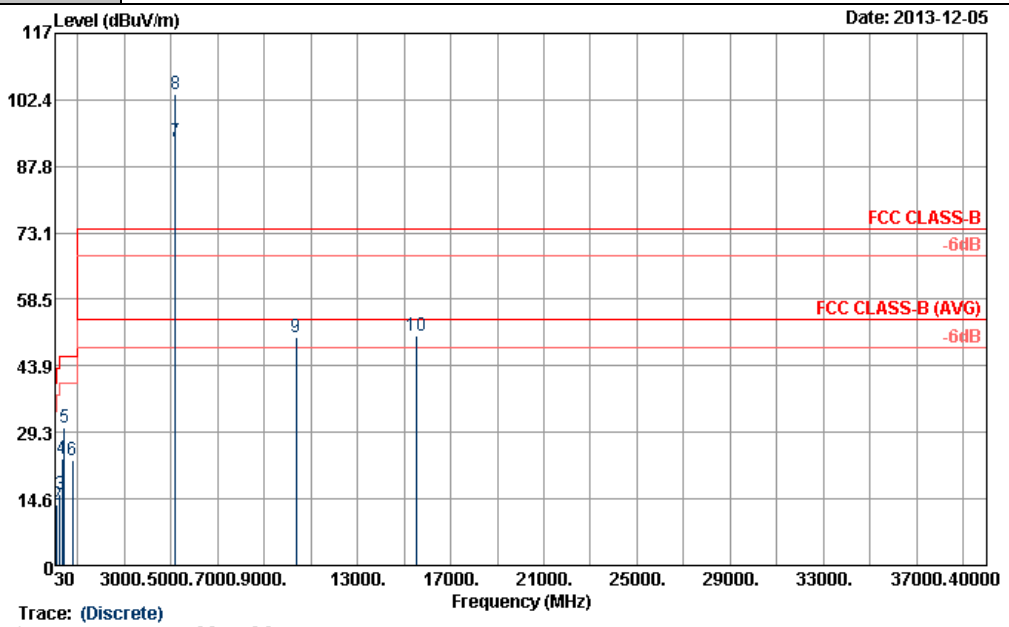
Site : 03CH06-HY
Condition : FCC CLASS-B 3m SHF-EHF VERTICAL

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	30.87	-9.13	40	43.53	18.5	0.64	31.8	100	164	Peak
66.45	14.44	-25.56	40	39.03	6.26	0.92	31.77	-	-	Peak
92.64	16.56	-26.94	43.5	37.74	9.5	1.07	31.75	-	-	Peak
434.4	25.7	-20.3	46	38.48	16.8	2.28	31.86	-	-	Peak
492.5	22.56	-23.44	46	34.33	17.73	2.42	31.92	-	-	Peak
618.5	22.41	-23.59	46	32.09	19.59	2.78	32.05	-	-	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
5701	93.24	-	-	80.21	35.01	11.3	33.28	100	243	Average
5701	103.04	-	-	90.01	35.01	11.3	33.28	100	243	Peak
11400	50.07	-23.93	74	55.28	37.76	10.99	53.96	100	0	Peak
17100	50.83	-23.17	74	50.47	41.34	12.12	53.1	100	0	Peak
Other harmonics are lower than background noise										

Test Mode :	802.11n HT20	Temperature :	22~24℃
Test Channel :	36	Relative Humidity :	47~49%
Test Engineer :	Marlboro Hsu		
Remark :	1. 5179 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 (5th ,6th , 7th,…etc.) and other spurious are not reported, because those levels are lower than average limit line and background noise.		



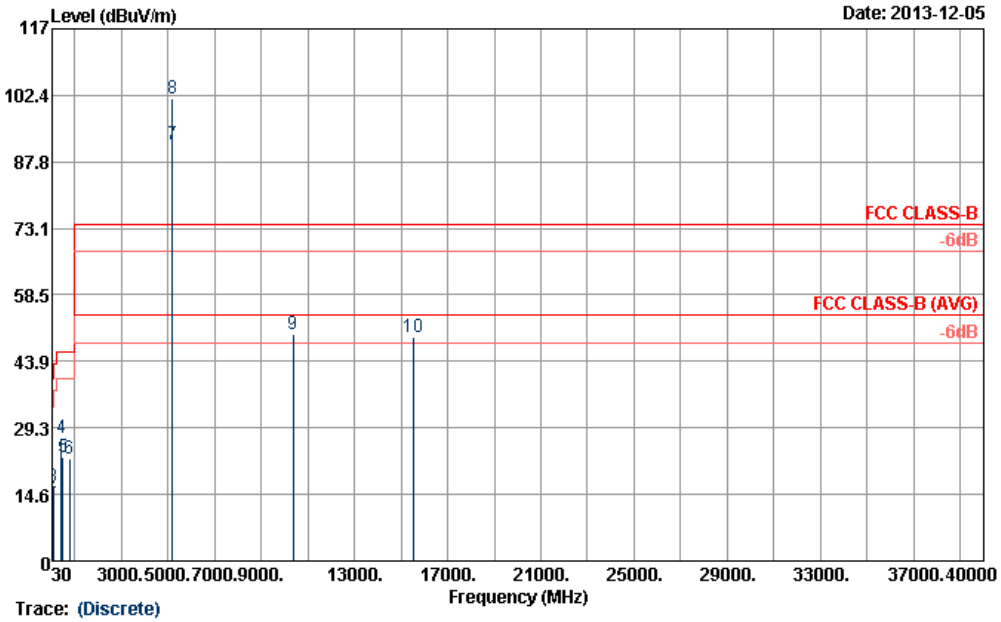
Site : 03CH06-HY
Condition : FCC CLASS-B 3m SHF-EHF HORIZONTAL

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
30	15.78	-24.22	40	28.44	18.5	0.64	31.8	-	-	Peak
120.45	13.46	-30.04	43.5	31.79	12.2	1.22	31.75	-	-	Peak
227.1	15.66	-30.34	46	35.86	9.9	1.64	31.74	-	-	Peak
329.4	23.51	-22.49	46	39.58	13.7	1.98	31.75	-	-	Peak
433	30.3	-15.7	46	43.09	16.8	2.27	31.86	100	254	Peak
784.4	23.21	-22.79	46	31.96	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
5179	93.08	-	-	81.47	34.48	10.47	33.34	163	275	Average
5179	103.59	-	-	91.98	34.48	10.47	33.34	163	275	Peak
10359	50.05	-23.95	74	57.6	37.17	10.64	55.36	100	0	Peak
15540	50.48	-23.52	74	52.78	39.73	11.79	53.82	100	0	Peak
Other harmonics are lower than background noise										

Test Mode :	802.11n HT20	Temperature :	22~24℃
Test Channel :	36	Relative Humidity :	47~49%
Test Engineer :	Marlboro Hsu		
Remark :	1. 5181 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 (5th ,6th , 7th,…etc.) and other spurious are not reported, because those levels are lower than average limit line and background noise		



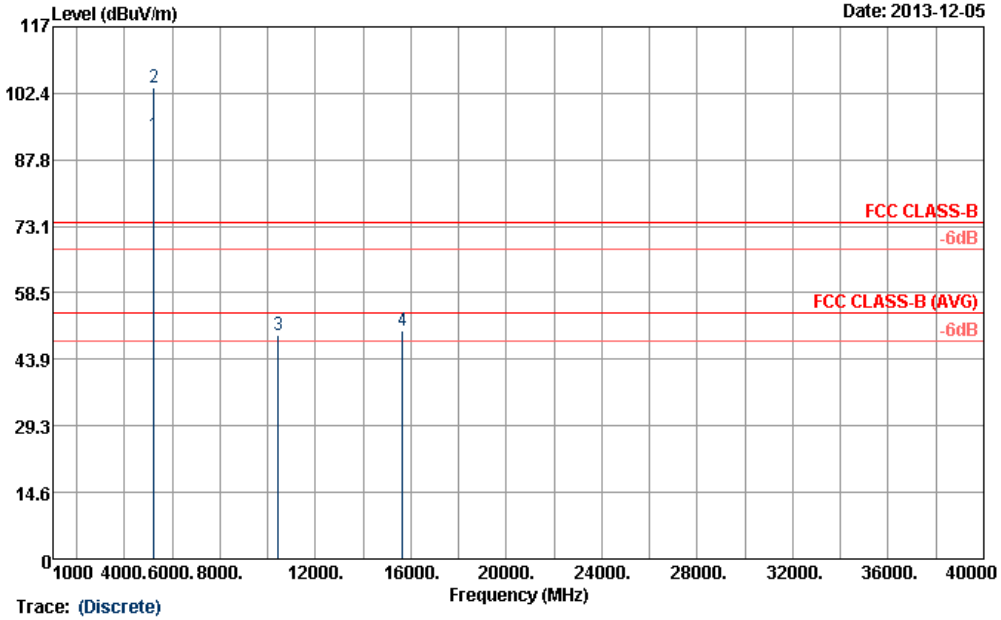
Site : 03CH06-HY
Condition : FCC CLASS-B 3m SHF-EHF VERTICAL

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	29.69	-10.31	40	42.35	18.5	0.64	31.8	100	316	Peak
66.45	14.85	-25.15	40	39.44	6.26	0.92	31.77	-	-	Peak
91.56	16.45	-27.05	43.5	38.25	8.9	1.06	31.76	-	-	Peak
434.4	26.89	-19.11	46	39.67	16.8	2.28	31.86	-	-	Peak
499.5	22.74	-23.26	46	34.4	17.79	2.48	31.93	-	-	Peak
784.4	22.34	-23.66	46	31.09	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
5181	91.47	-	-	79.86	34.48	10.47	33.34	125	360	Average
5181	101.82	-	-	90.21	34.48	10.47	33.34	125	360	Peak
10359	49.71	-24.29	74	57.26	37.17	10.64	55.36	100	0	Peak
15540	49.24	-24.76	74	51.54	39.73	11.79	53.82	100	0	Peak
Other harmonics are lower than background noise										

Test Mode :	802.11n HT20	Temperature :	22~24℃
Test Channel :	44	Relative Humidity :	47~49%
Test Engineer :	Marlboro Hsu		
Remark :	1. 5221 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 (5th ,6th , 7th,…etc.) and other spurious are not reported, because those levels are lower than average limit line and background noise		



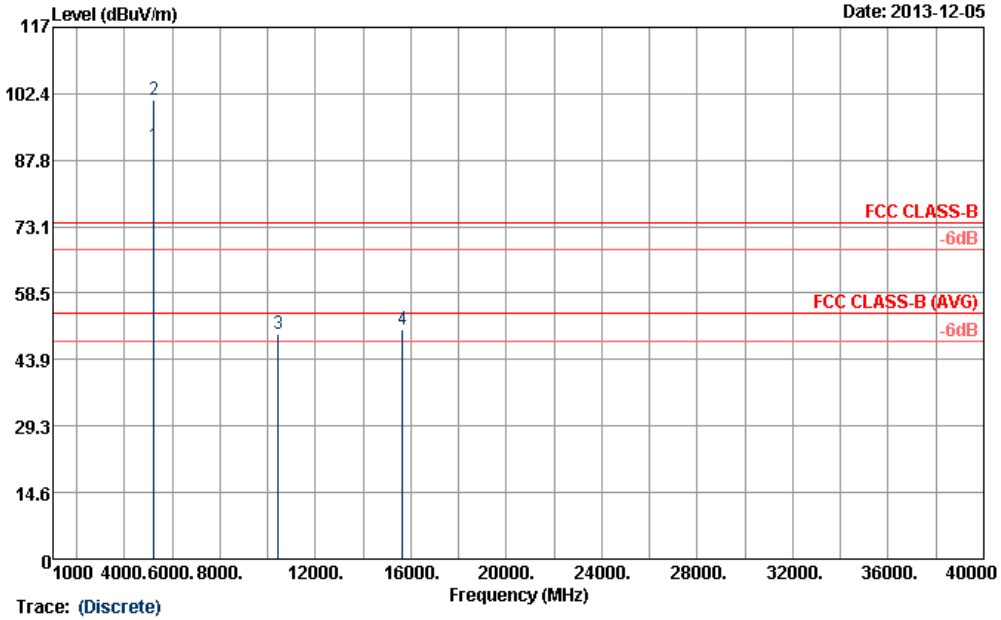
Site : 03CH06-HY
Condition : FCC CLASS-B 3m SHF-EHF HORIZONTAL

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
5221	93.11	-	-	81.37	34.52	10.54	33.32	165	286	Average
5221	103.61	-	-	91.87	34.52	10.54	33.32	165	286	Peak
10440	49.13	-24.87	74	56.53	37.23	10.65	55.28	100	0	Peak
15660	50.24	-23.76	74	52.19	39.86	11.75	53.56	100	0	Peak

Other harmonics are lower than background noise

Test Mode :	802.11n HT20	Temperature :	22~24℃
Test Channel :	44	Relative Humidity :	47~49%
Test Engineer :	Marlboro Hsu		
Remark :	1. 5219 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 (5th ,6th , 7th,…etc.) and other spurious are not reported, because those levels are lower than average limit line and background noise		

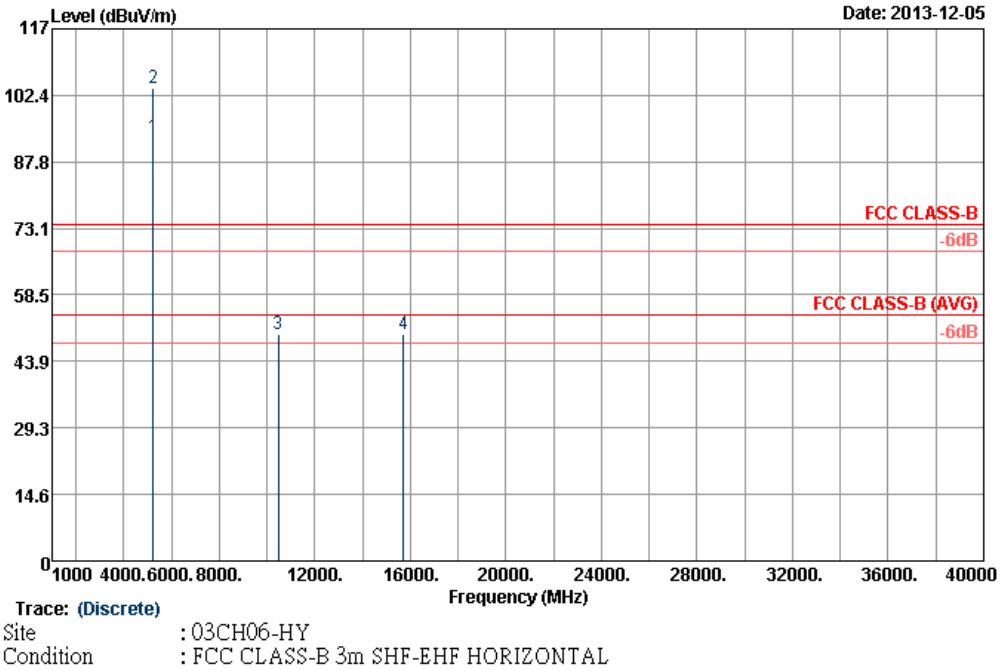


ANTENNA POLARITY : VERTICAL

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
5219	90.82	-	-	79.09	34.52	10.54	33.33	100	346	Average
5219	100.98	-	-	89.25	34.52	10.54	33.33	100	346	Peak
10440	49.6	-24.4	74	57	37.23	10.65	55.28	100	0	Peak
15660	50.62	-23.38	74	52.57	39.86	11.75	53.56	100	0	Peak

Other harmonics are lower than background noise

Test Mode :	802.11n HT20	Temperature :	22~24℃
Test Channel :	48	Relative Humidity :	47~49%
Test Engineer :	Marlboro Hsu		
Remark :	1. 5239 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 (5th ,6th , 7th,…etc.) and other spurious are not reported, because those levels are lower than average limit line and background noise		

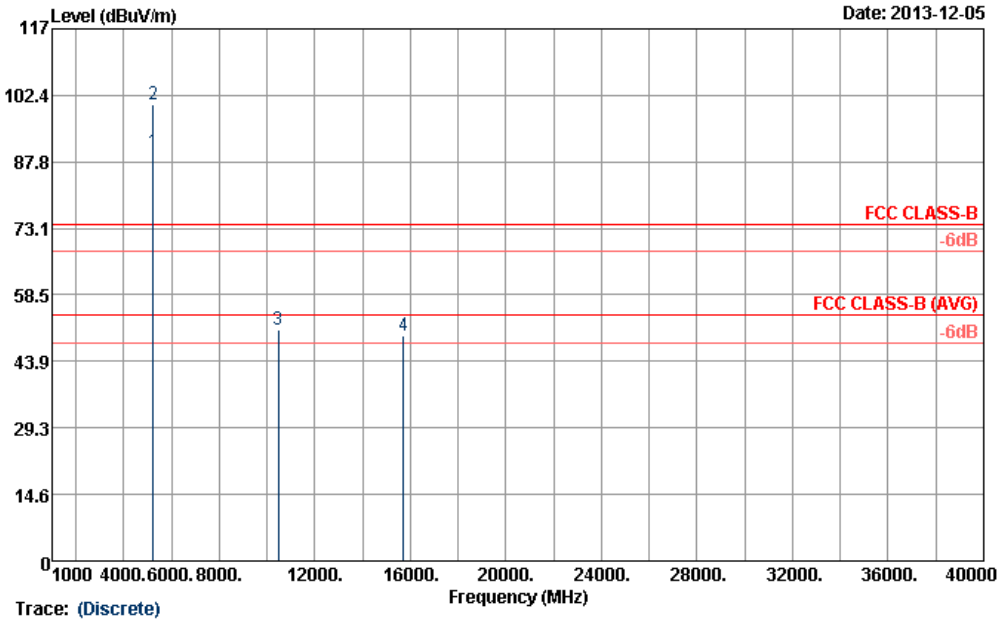


ANTENNA POLARITY : HORIZONTAL

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
5239	93.27	-	-	81.48	34.53	10.58	33.32	146	310	Average
5239	103.9	-	-	92.11	34.53	10.58	33.32	146	310	Peak
10479	49.83	-24.17	74	57.11	37.28	10.66	55.22	100	0	Peak
15720	49.9	-24.1	74	51.65	39.92	11.74	53.41	100	0	Peak

Other harmonics are lower than background noise

Test Mode :	802.11n HT20	Temperature :	22~24℃
Test Channel :	48	Relative Humidity :	47~49%
Test Engineer :	Marlboro Hsu		
Remark :	1. 5241 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 (5th ,6th , 7th,…etc.) and other spurious are not reported, because those levels are lower than average limit line and background noise		



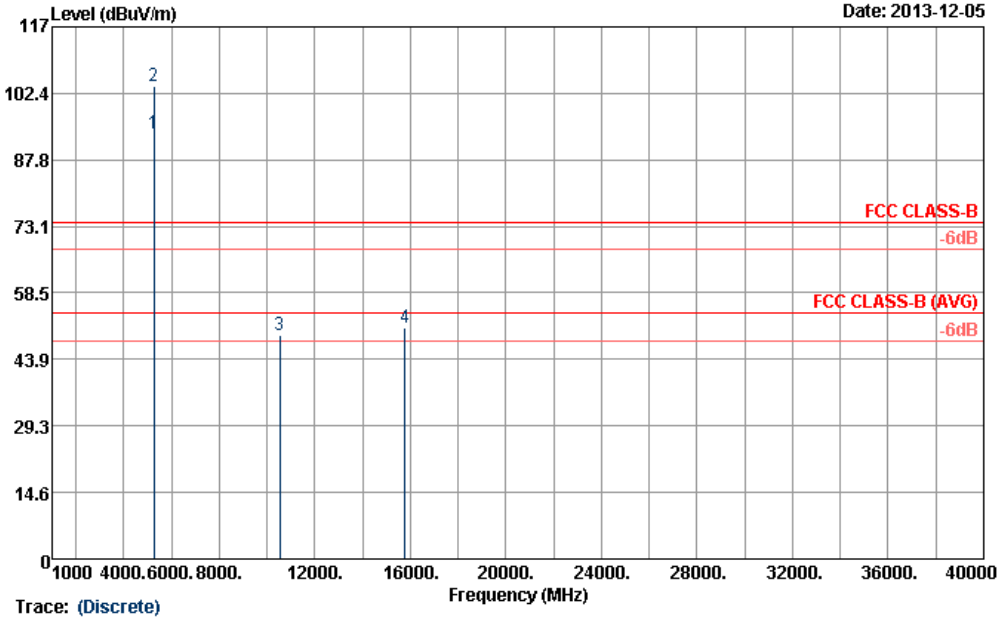
Site : 03CH06-HY
Condition : FCC CLASS-B 3m SHF-EHF VERTICAL

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
5241	90.05	-	-	78.26	34.53	10.58	33.32	100	347	Average
5241	100.39	-	-	88.6	34.53	10.58	33.32	100	347	Peak
10479	50.85	-23.15	74	58.13	37.28	10.66	55.22	100	0	Peak
15720	49.6	-24.4	74	51.35	39.92	11.74	53.41	100	0	Peak

Other harmonics are lower than background noise

Test Mode :	802.11n HT20	Temperature :	22~24℃
Test Channel :	52	Relative Humidity :	47~49%
Test Engineer :	Marlboro Hsu		
Remark :	1. 5261 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 (5th ,6th , 7th,…etc.) and other spurious are not reported, because those levels are lower than average limit line and background noise		



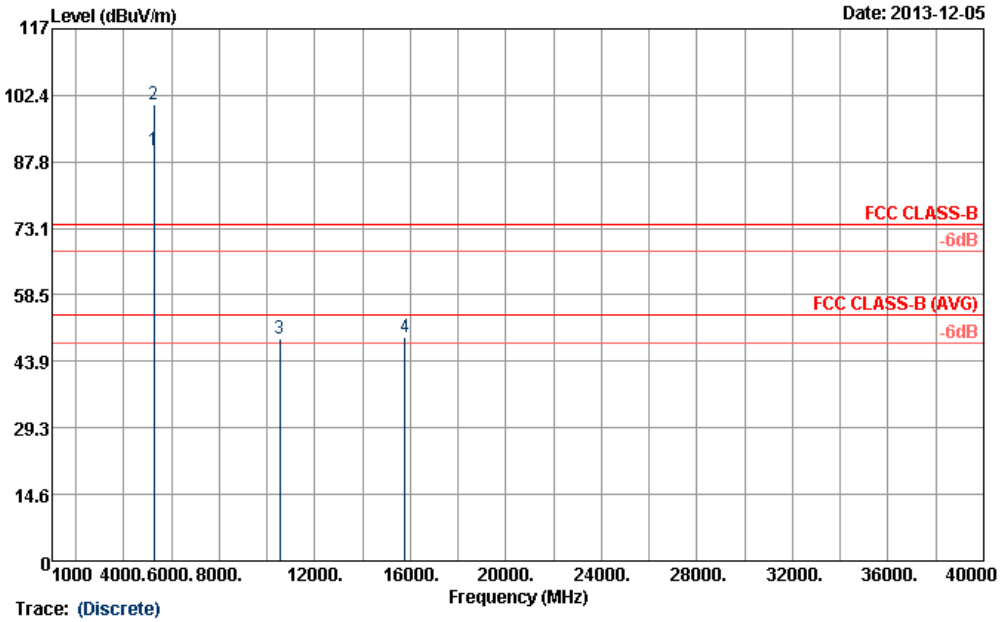
Site : 03CH06-HY
Condition : FCC CLASS-B 3m SHF-EHF HORIZONTAL

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
5261	93.5	-	-	81.63	34.57	10.61	33.31	100	274	Average
5261	103.99	-	-	92.12	34.57	10.61	33.31	100	274	Peak
10521	49.21	-24.79	74	56.41	37.31	10.67	55.18	100	0	Peak
15780	50.88	-23.12	74	52.47	39.98	11.72	53.29	100	0	Peak

Other harmonics are lower than background noise

Test Mode :	802.11n HT20	Temperature :	22~24℃
Test Channel :	52	Relative Humidity :	47~49%
Test Engineer :	Marlboro Hsu		
Remark :	1. 5259 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 (5th ,6th , 7th,…etc.) and other spurious are not reported, because those levels are lower than average limit line and background noise		



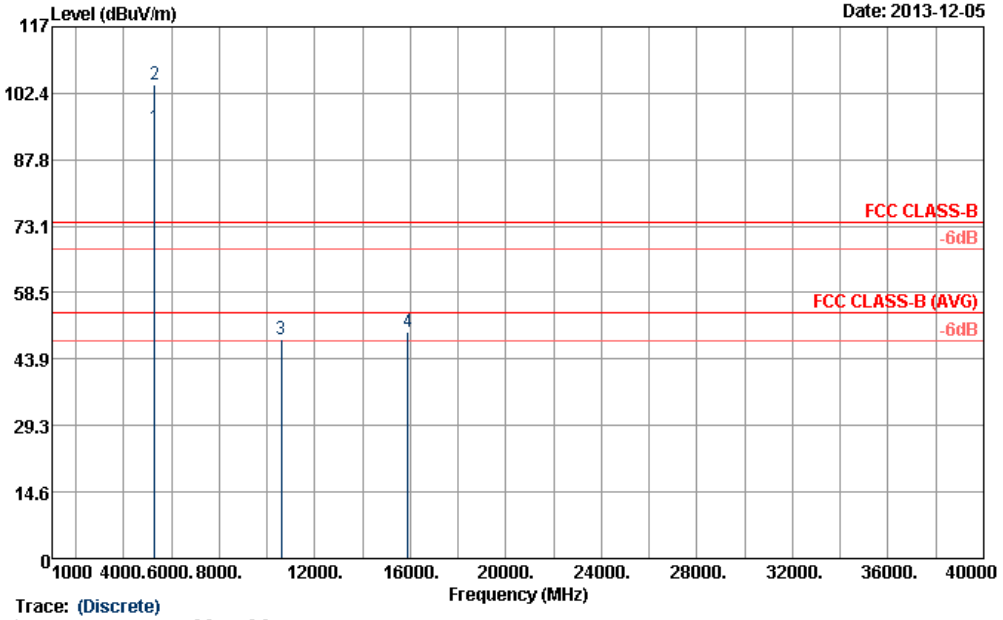
Site : 03CH06-HY
Condition : FCC CLASS-B 3m SHF-EHF VERTICAL

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
5259	90.17	-	-	78.33	34.57	10.58	33.31	100	318	Average
5259	100.25	-	-	88.41	34.57	10.58	33.31	100	318	Peak
10521	48.74	-25.26	74	55.94	37.31	10.67	55.18	100	0	Peak
15780	49.23	-24.77	74	50.82	39.98	11.72	53.29	100	0	Peak

Other harmonics are lower than background noise

Test Mode :	802.11n HT20	Temperature :	22~24℃
Test Channel :	60	Relative Humidity :	47~49%
Test Engineer :	Marlboro Hsu		
Remark :	1. 5301 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 (5th ,6th , 7th,…etc.) and other spurious are not reported, because those levels are lower than average limit line and background noise		



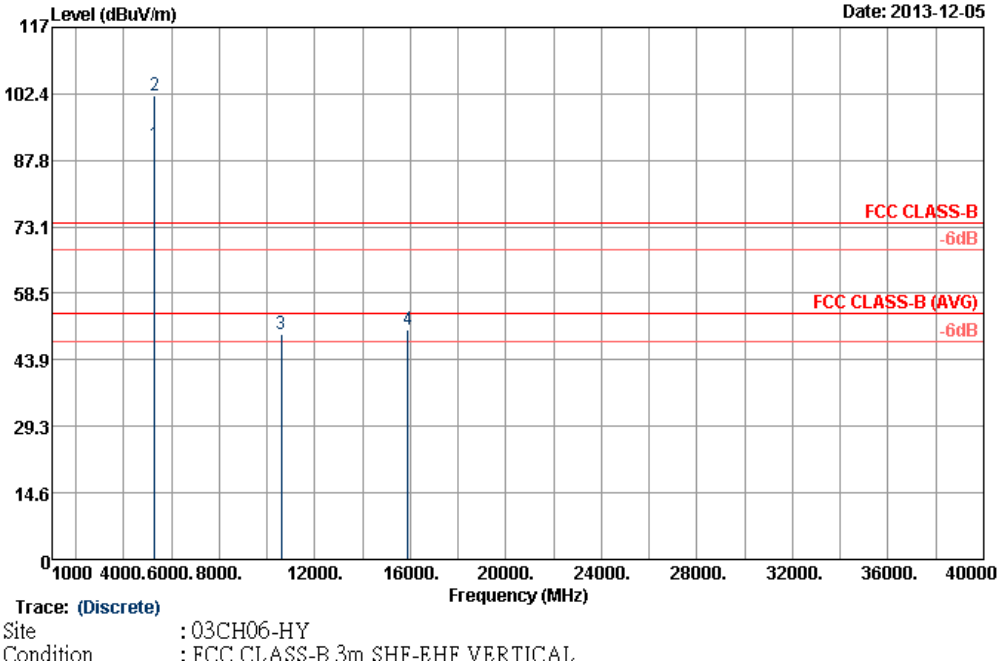
Site : 03CH06-HY
Condition : FCC CLASS-B 3m SHF-EHF HORIZONTAL

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
5301	94.81	-	-	82.85	34.6	10.65	33.29	100	268	Average
5301	104.31	-	-	92.35	34.6	10.65	33.29	100	268	Peak
10599	48.29	-25.71	74	55.33	37.36	10.68	55.08	100	0	Peak
15900	49.87	-24.13	74	51.12	40.1	11.68	53.03	100	0	Peak

Other harmonics are lower than background noise

Test Mode :	802.11n HT20	Temperature :	22~24℃
Test Channel :	60	Relative Humidity :	47~49%
Test Engineer :	Marlboro Hsu		
Remark :	1. 5304 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 (5th ,6th , 7th,…etc.) and other spurious are not reported, because those levels are lower than average limit line and background noise		

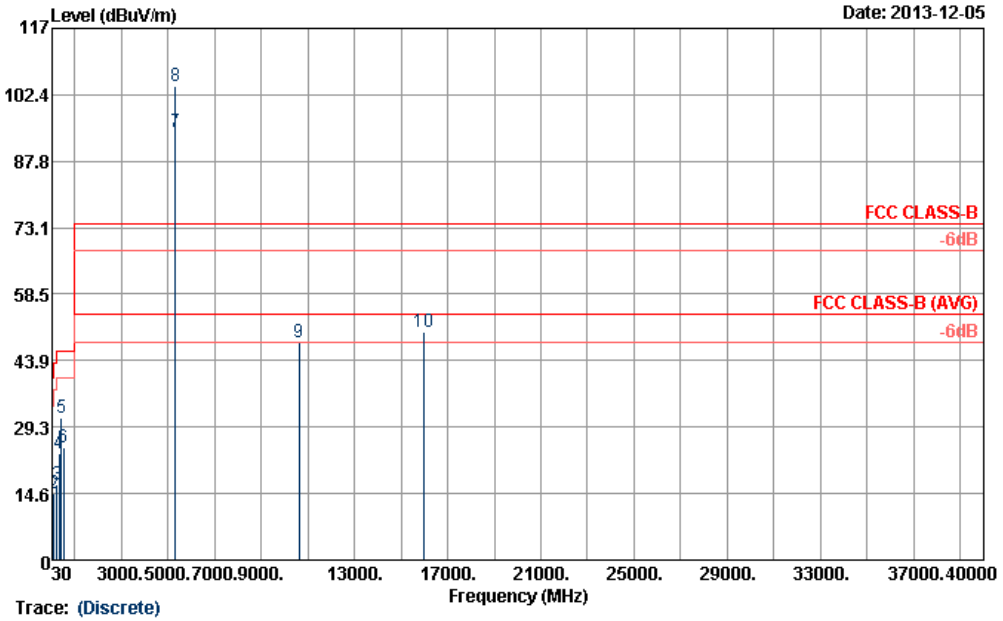


ANTENNA POLARITY : VERTICAL

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
5304	91.19	-	-	79.23	34.6	10.65	33.29	100	109	Average
5304	101.98	-	-	90.02	34.6	10.65	33.29	100	109	Peak
10599	49.42	-24.58	74	56.46	37.36	10.68	55.08	100	0	Peak
15900	50.6	-23.4	74	51.85	40.1	11.68	53.03	100	0	Peak

Other harmonics are lower than background noise

Test Mode :	802.11n HT20	Temperature :	22~24℃
Test Channel :	64	Relative Humidity :	47~49%
Test Engineer :	Marlboro Hsu		
Remark :	1. 5321 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 (5th ,6th , 7th,…etc.) and other spurious are not reported, because those levels are lower than average limit line and background noise		



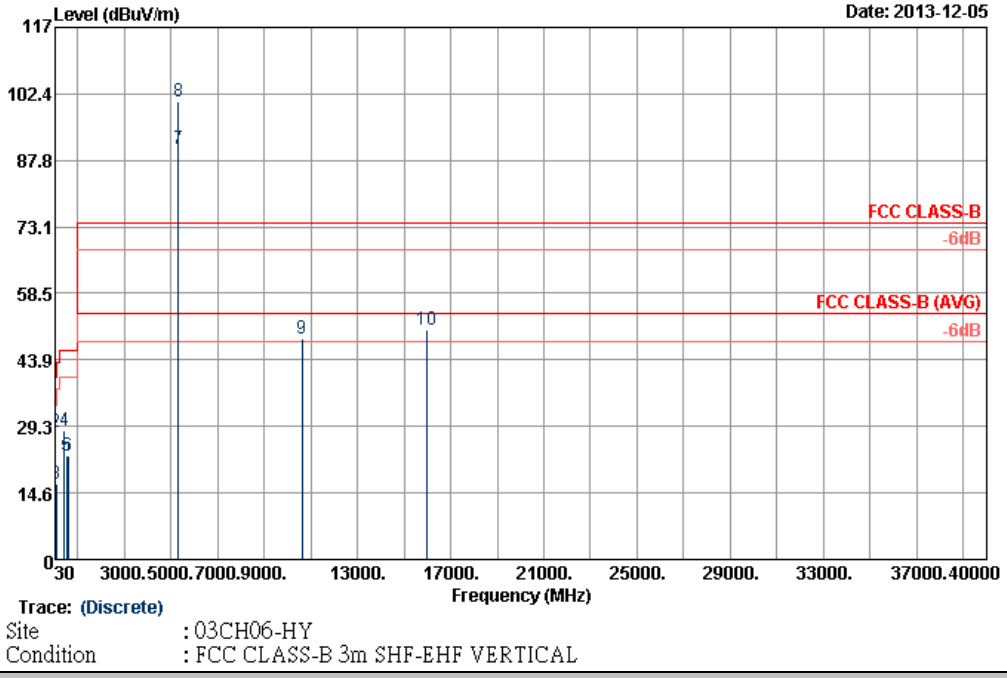
Site : 03CH06-HY
Condition : FCC CLASS-B 3m SHF-EHF HORIZONTAL

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
30	16.6	-23.4	40	29.26	18.5	0.64	31.8	-	-	Peak
122.34	14.53	-28.97	43.5	32.93	12.12	1.23	31.75	-	-	Peak
223.86	16.71	-29.29	46	37.21	9.6	1.64	31.74	-	-	Peak
333.6	23.59	-22.41	46	39.54	13.81	1.99	31.75	-	-	Peak
429.5	31.33	-14.67	46	44.12	16.8	2.26	31.85	100	6	Peak
522.6	24.67	-21.33	46	36.03	18.09	2.51	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
5321	94.13	-	-	82.12	34.62	10.68	33.29	100	276	Average
5321	104.38	-	-	92.37	34.62	10.68	33.29	100	276	Peak
10641	47.95	-26.05	74	54.91	37.38	10.69	55.03	100	0	Peak
15960	50.26	-23.74	74	51.31	40.17	11.66	52.88	100	0	Peak
Other harmonics are lower than background noise										

Test Mode :	802.11n HT20	Temperature :	22~24℃
Test Channel :	64	Relative Humidity :	47~49%
Test Engineer :	Marlboro Hsu		
Remark :	1. 5321 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 (5th ,6th , 7th,…etc.) and other spurious are not reported, because those levels are lower than average limit line and background noise		

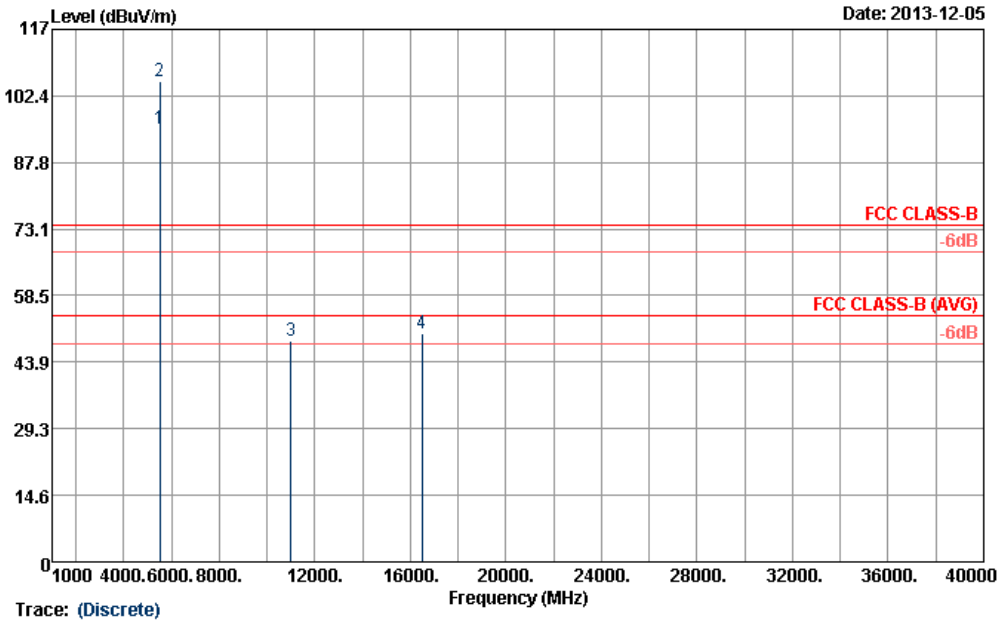


ANTENNA POLARITY : VERTICAL

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	30.91	-9.09	40	43.57	18.5	0.64	31.8	100	145	Peak
34.86	28.04	-11.96	40	43.64	15.5	0.69	31.79	-	-	Peak
92.64	16.72	-26.78	43.5	37.9	9.5	1.07	31.75	-	-	Peak
438.6	28.28	-17.72	46	41.05	16.8	2.29	31.86	-	-	Peak
522.6	22.84	-23.16	46	34.2	18.09	2.51	31.96	-	-	Peak
585.6	22.76	-23.24	46	32.76	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
5321	90.31	-	-	78.3	34.62	10.68	33.29	100	109	Average
5321	100.66	-	-	88.65	34.62	10.68	33.29	100	109	Peak
10641	48.62	-25.38	74	55.58	37.38	10.69	55.03	100	0	Peak
15960	50.59	-23.41	74	51.64	40.17	11.66	52.88	100	0	Peak
Other harmonics are lower than background noise										

Test Mode :	802.11n HT20	**Temperature :**	22~24℃
Test Channel :	100	**Relative Humidity :**	47~49%
Test Engineer :	Marlboro Hsu		
Remark :	1. 5501 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 (5th ,6th , 7th,…etc.) and other spurious are not reported, because those levels are lower than average limit line and background noise		



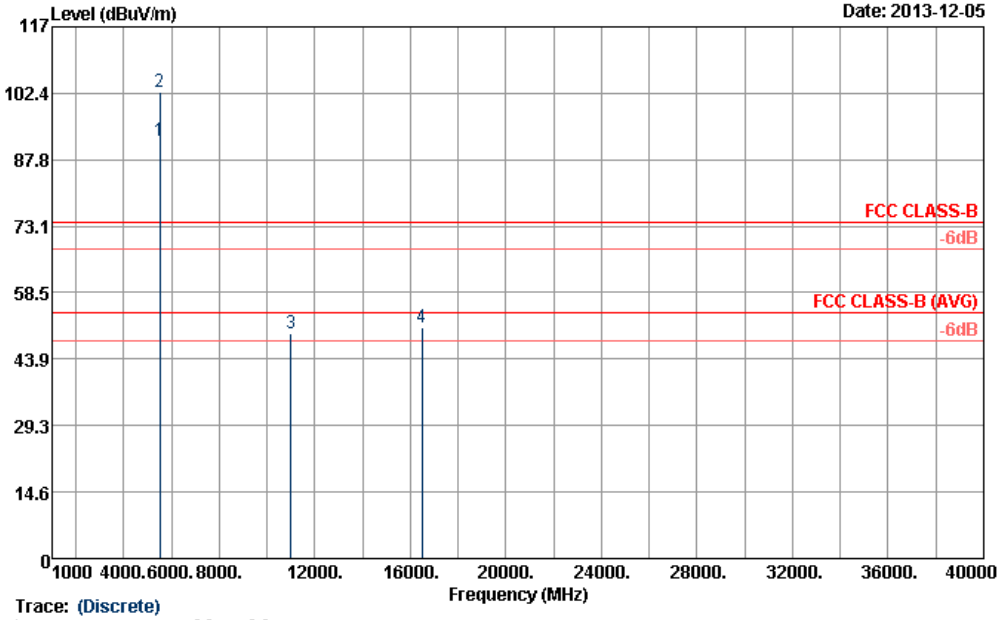
Site : 03CH06-HY
Condition : FCC CLASS-B 3m SHF-EHF HORIZONTAL

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
5501	95.07	-	-	82.53	34.8	10.96	33.22	100	352	Average
5501	105.44	-	-	92.9	34.8	10.96	33.22	100	352	Peak
11001	48.72	-25.28	74	54.96	37.6	10.76	54.6	100	0	Peak
16500	50.04	-23.96	74	50.52	41	11.82	53.3	100	0	Peak

Other harmonics are lower than background noise

Test Mode :	802.11n HT20	Temperature :	22~24℃
Test Channel :	100	Relative Humidity :	47~49%
Test Engineer :	Marlboro Hsu		
Remark :	1. 5501 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 (5th ,6th , 7th,…etc.) and other spurious are not reported, because those levels are lower than average limit line and background noise		



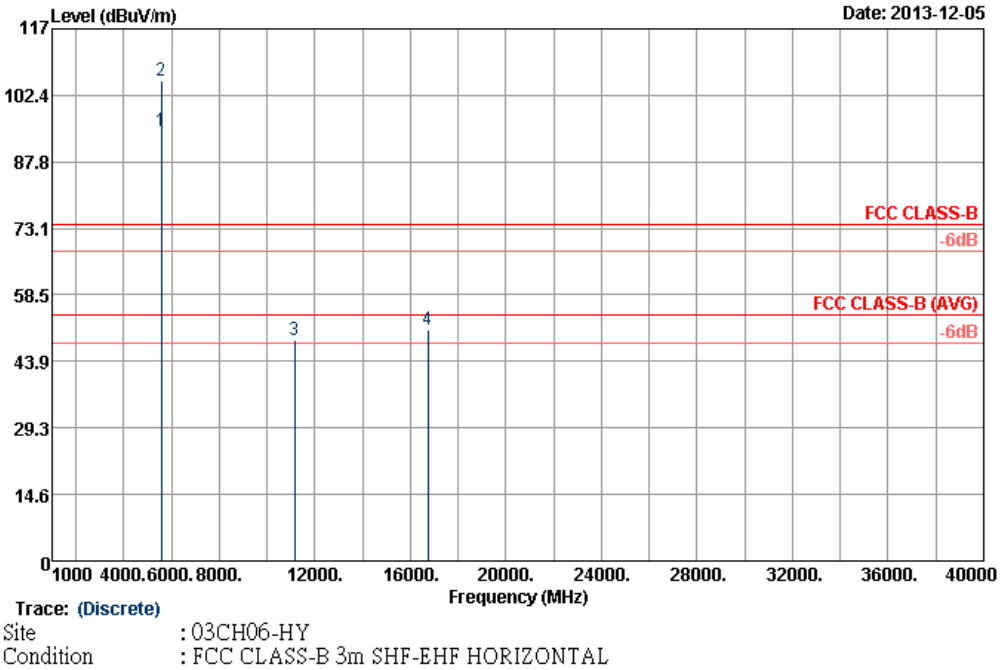
Site : 03CH06-HY
Condition : FCC CLASS-B 3m SHF-EHF VERTICAL

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
5501	92.02	-	-	79.48	34.8	10.96	33.22	114	240	Average
5501	102.76	-	-	90.22	34.8	10.96	33.22	114	240	Peak
11001	49.42	-24.58	74	55.66	37.6	10.76	54.6	100	0	Peak
16500	50.86	-23.14	74	51.34	41	11.82	53.3	100	0	Peak

Other harmonics are lower than background noise

Test Mode :	802.11n HT20	Temperature :	22~24℃
Test Channel :	116	Relative Humidity :	47~49%
Test Engineer :	Marlboro Hsu		
Remark :	1. 5581 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 (5th ,6th , 7th,…etc.) and other spurious are not reported, because those levels are lower than average limit line and background noise		

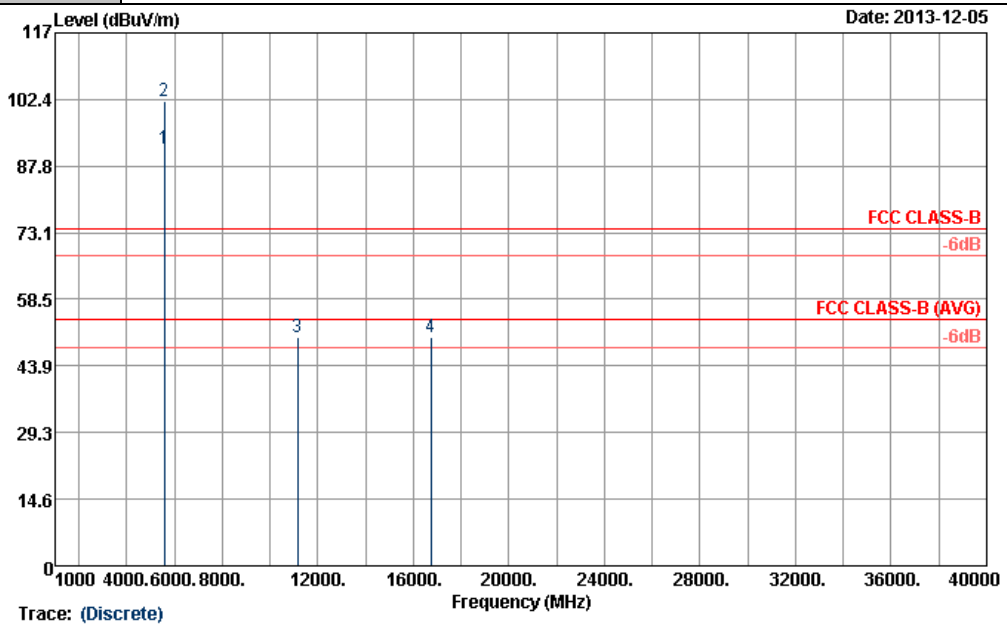


ANTENNA POLARITY : HORIZONTAL

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
5581	94.6	-	-	81.89	34.87	11.09	33.25	100	338	Average
5581	105.6	-	-	92.89	34.87	11.09	33.25	100	338	Peak
11160	48.42	-25.58	74	54.24	37.67	10.84	54.33	100	0	Peak
16740	50.81	-23.19	74	50.77	41.24	11.91	53.11	100	0	Peak

Other harmonics are lower than background noise

Test Mode :	802.11n HT20	Temperature :	22~24℃
Test Channel :	116	Relative Humidity :	47~49%
Test Engineer :	Marlboro Hsu		
Remark :	1. 5579 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 (5th ,6th , 7th,…etc.) and other spurious are not reported, because those levels are lower than average limit line and background noise		



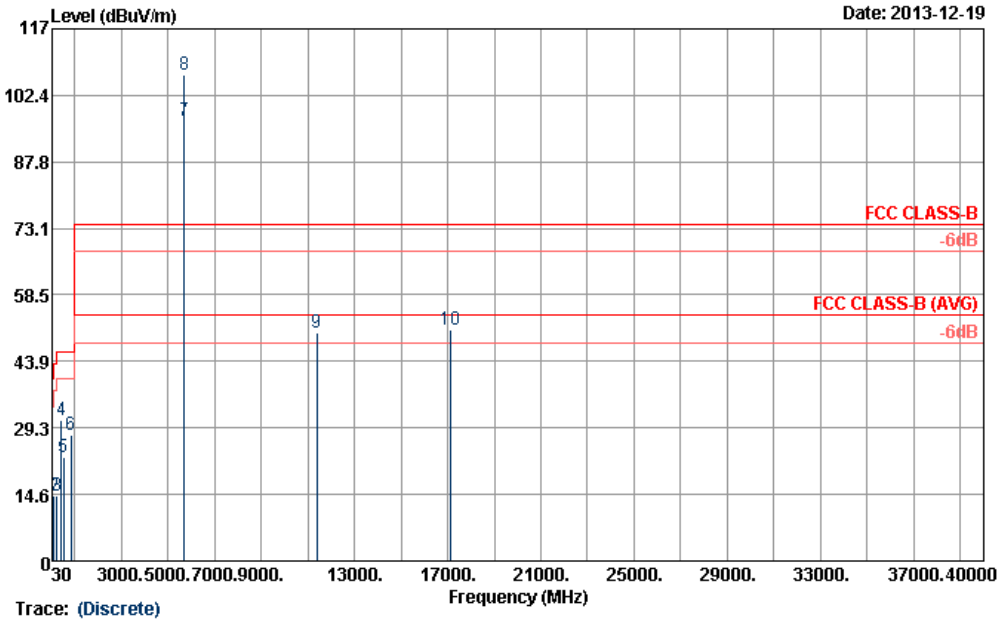
Site : 03CH06-HY
Condition : FCC CLASS-B 3m SHF-EHF VERTICAL

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
5579	91.52	-	-	78.81	34.87	11.09	33.25	111	244	Average
5579	102.04	-	-	89.33	34.87	11.09	33.25	111	244	Peak
11160	50.06	-23.94	74	55.88	37.67	10.84	54.33	100	0	Peak
16740	50.08	-23.92	74	50.04	41.24	11.91	53.11	100	0	Peak

Other harmonics are lower than background noise

Test Mode :	802.11n HT20	Temperature :	22~24℃
Test Channel :	140	Relative Humidity :	47~49%
Test Engineer :	Marlboro Hsu		
Remark :	1. 5699 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 (5th ,6th , 7th,…etc.) and other spurious are not reported, because those levels are lower than average limit line and background noise		



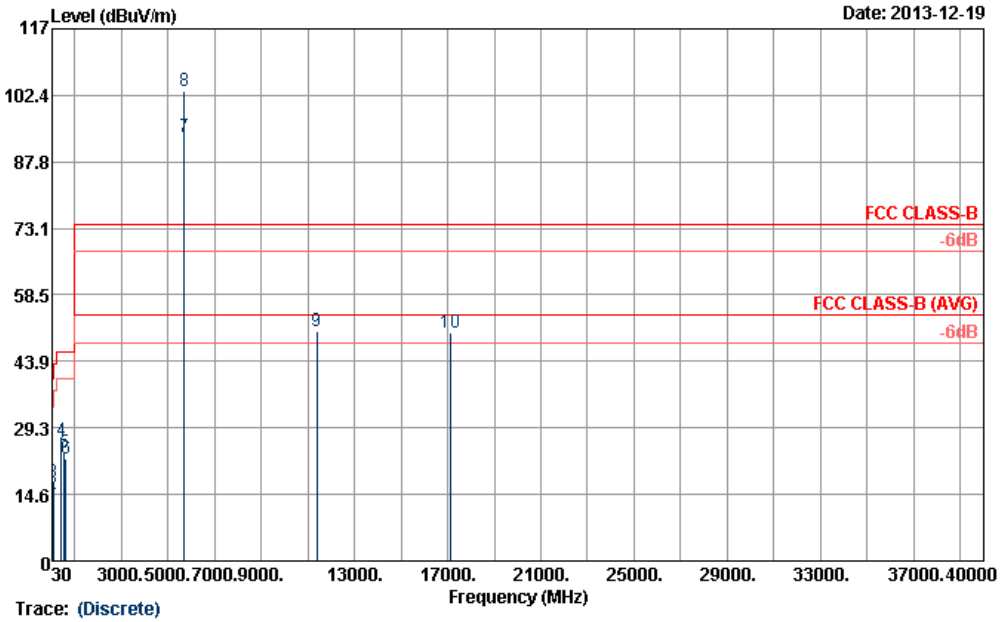
Site : 03CH06-HY
Condition : FCC CLASS-B 3m SHF-EHF HORIZONTAL

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
30	17.29	-22.71	40	29.95	18.5	0.64	31.8	-	-	Peak
123.15	14.44	-29.06	43.5	32.87	12.08	1.24	31.75	-	-	Peak
233.85	14.27	-31.73	46	33.66	10.68	1.67	31.74	-	-	Peak
434.4	30.89	-15.11	46	43.67	16.8	2.28	31.86	100	147	Peak
531	22.92	-23.08	46	34	18.37	2.52	31.97	-	-	Peak
826.4	27.79	-18.21	46	35.95	20.53	3.15	31.84	-	-	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
5699	96.94	-	-	83.93	34.99	11.3	33.28	100	356	Average
5699	106.83	-	-	93.82	34.99	11.3	33.28	100	356	Peak
11400	50.13	-23.87	74	55.34	37.76	10.99	53.96	100	0	Peak
17100	50.8	-23.2	74	50.44	41.34	12.12	53.1	100	0	Peak
Other harmonics are lower than background noise										

Test Mode :	802.11n HT20	Temperature :	22~24℃
Test Channel :	140	Relative Humidity :	47~49%
Test Engineer :	Marlboro Hsu		
Remark :	1. 5701 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 (5th ,6th , 7th,…etc.) and other spurious are not reported, because those levels are lower than average limit line and background noise		



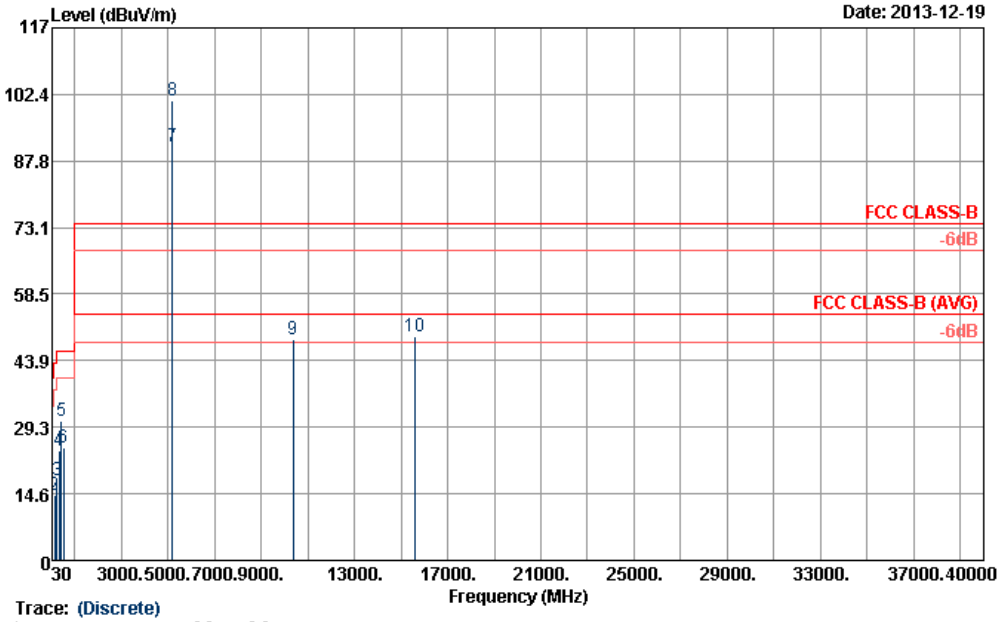
Site : 03CH06-HY
Condition : FCC CLASS-B 3m SHF-EHF VERTICAL

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	30.15	-9.85	40	42.81	18.5	0.64	31.8	100	77	Peak
64.56	14.6	-25.4	40	39.36	6.1	0.91	31.77	-	-	Peak
91.56	17.23	-26.27	43.5	39.03	8.9	1.06	31.76	-	-	Peak
434.4	26.44	-19.56	46	39.22	16.8	2.28	31.86	-	-	Peak
541.5	23.72	-22.28	46	34.03	19.14	2.53	31.98	-	-	Peak
623.4	22.61	-23.39	46	32.21	19.67	2.78	32.05	-	-	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
5701	93.31	-	-	80.28	35.01	11.3	33.28	100	330	Average
5701	103.2	-	-	90.17	35.01	11.3	33.28	100	330	Peak
11400	50.62	-23.38	74	55.83	37.76	10.99	53.96	100	0	Peak
17100	50.07	-23.93	74	49.71	41.34	12.12	53.1	100	0	Peak
Other harmonics are lower than background noise										

Test Mode :	802.11n HT40	Temperature :	22~24℃
Test Channel :	38	Relative Humidity :	47~49%
Test Engineer :	Marlboro Hsu		
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 (5th ,6th , 7th,…etc.) and other spurious are not reported, because those levels are lower than average limit line and background noise.		



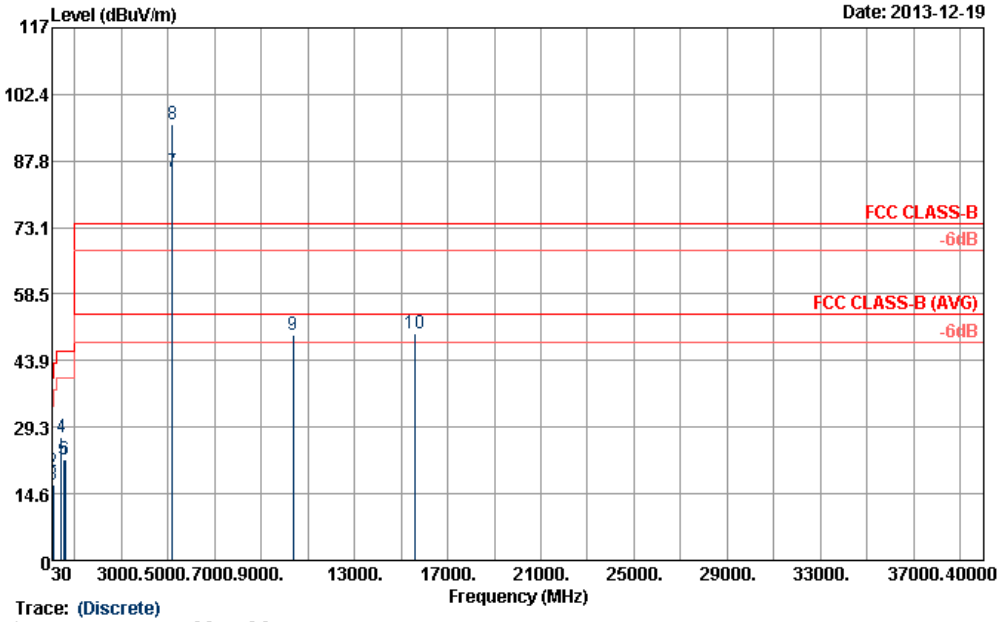
Site : 03CH06-HY
Condition : FCC CLASS-B 3m SHF-EHF HORIZONTAL

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
30	16.17	-23.83	40	28.83	18.5	0.64	31.8	-	-	Peak
135.3	14.34	-29.16	43.5	33.3	11.5	1.29	31.75	-	-	Peak
223.86	17.64	-28.36	46	38.14	9.6	1.64	31.74	-	-	Peak
336.4	24.26	-21.74	46	40.13	13.89	2	31.76	-	-	Peak
426	30.7	-15.3	46	43.5	16.8	2.25	31.85	100	158	Peak
515.6	24.69	-21.31	46	36.17	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	91.06	-	-	79.39	34.5	10.51	33.34	100	358	Average
5192	100.96	-	-	89.29	34.5	10.51	33.34	100	358	Peak
10380	48.54	-25.46	74	56.06	37.18	10.64	55.34	100	0	Peak
15570	49.34	-24.66	74	51.54	39.77	11.78	53.75	100	0	Peak
Other harmonics are lower than background noise										

Test Mode :	802.11n HT40	Temperature :	22~24℃
Test Channel :	38	Relative Humidity :	47~49%
Test Engineer :	Marlboro Hsu		
Remark :	1. 5191 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 (5th ,6th , 7th,…etc.) and other spurious are not reported, because those levels are lower than average limit line and background noise		

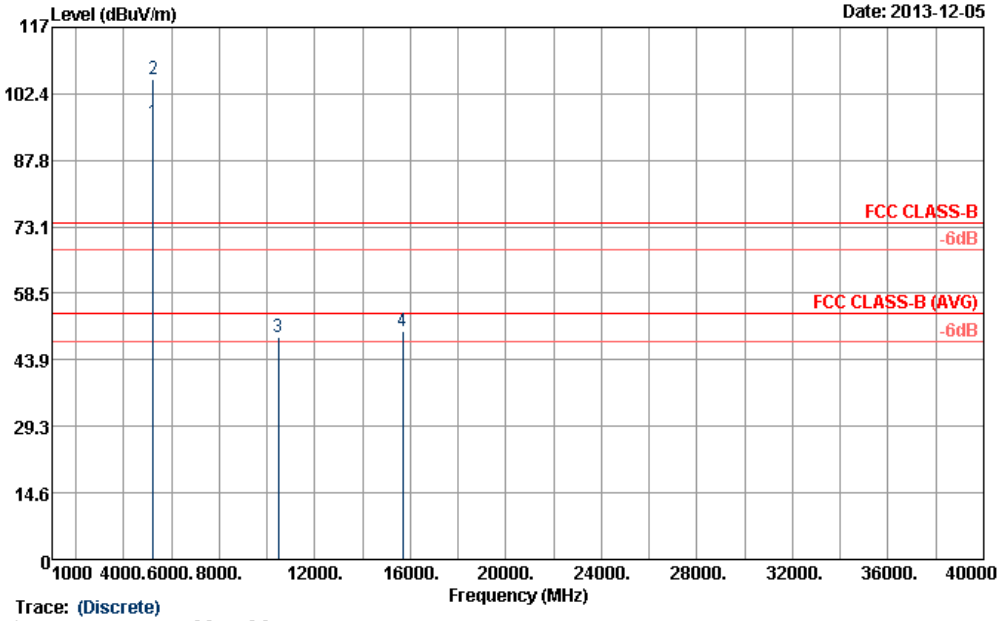


ANTENNA POLARITY : VERTICAL

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	30.23	-9.77	40	42.89	18.5	0.64	31.8	100	17	Peak
48.36	19.58	-20.42	40	41.84	8.73	0.79	31.78	-	-	Peak
92.64	16.51	-26.99	43.5	37.69	9.5	1.07	31.75	-	-	Peak
433	26.9	-19.1	46	39.69	16.8	2.27	31.86	-	-	Peak
538	22.29	-23.71	46	32.79	18.95	2.53	31.98	-	-	Peak
588.4	22.07	-23.93	46	32.08	19.31	2.72	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
5191	85.53	-	-	73.86	34.5	10.51	33.34	100	322	Average
5191	95.82	-	-	84.15	34.5	10.51	33.34	100	322	Peak
10380	49.6	-24.4	74	57.12	37.18	10.64	55.34	100	0	Peak
15570	49.76	-24.24	74	51.96	39.77	11.78	53.75	100	0	Peak
Other harmonics are lower than background noise										

Test Mode :	802.11n HT40	Temperature :	22~24℃
Test Channel :	46	Relative Humidity :	47~49%
Test Engineer :	Marlboro Hsu		
Remark :	1. 5228 MHz is fundamental signal which can be ignored. 2. 10461 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 (5th ,6th , 7th,…etc.) and other spurious are not reported, because those levels are lower than average limit line and background noise		



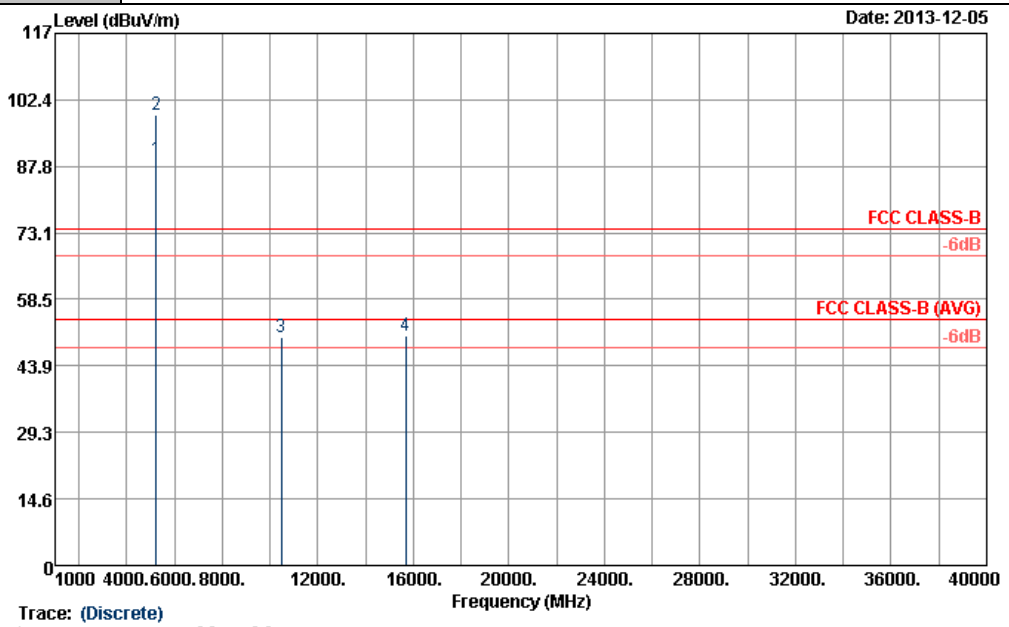
Site : 03CH06-HY
Condition : FCC CLASS-B 3m SHF-EHF HORIZONTAL

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
5228	96.06	-	-	84.31	34.53	10.54	33.32	104	286	Average
5228	105.51	-	-	93.76	34.53	10.54	33.32	104	286	Peak
10461	49.04	-24.96	74	56.35	37.27	10.66	55.24	100	0	Peak
15690	50.25	-23.75	74	52.09	39.89	11.75	53.48	100	0	Peak

Other harmonics are lower than background noise

Test Mode :	802.11n HT40	Temperature :	22~24℃
Test Channel :	46	Relative Humidity :	47~49%
Test Engineer :	Marlboro Hsu		
Remark :	1. 5232 MHz is fundamental signal which can be ignored. 2. 10461 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 (5th ,6th , 7th,…etc.) and other spurious are not reported, because those levels are lower than average limit line and background noise		

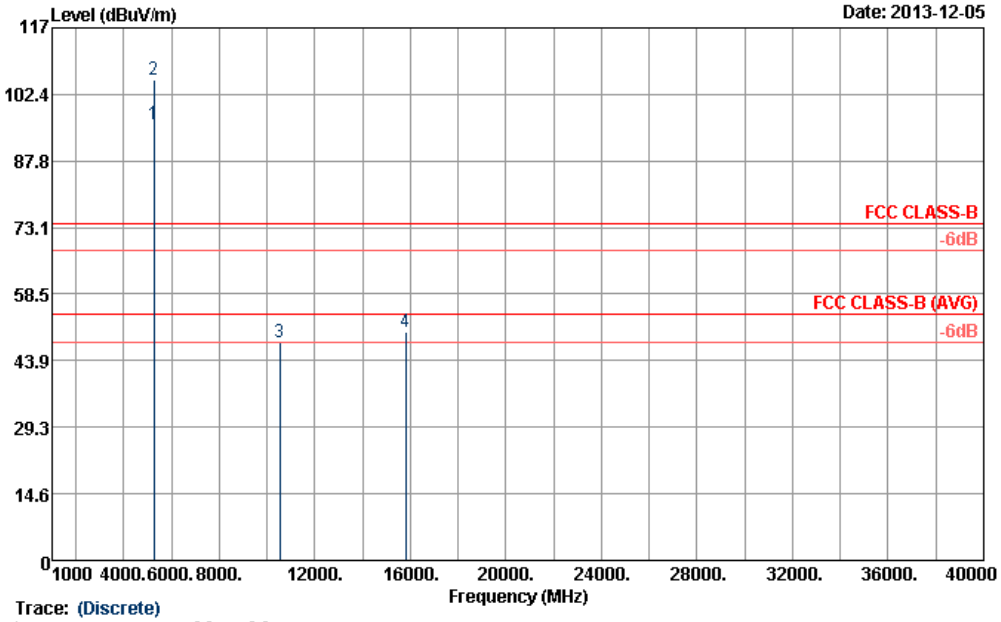


ANTENNA POLARITY : VERTICAL

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
5232	89.31	-	-	77.56	34.53	10.54	33.32	100	268	Average
5232	99.09	-	-	87.34	34.53	10.54	33.32	100	268	Peak
10461	50.07	-23.93	74	57.38	37.27	10.66	55.24	100	0	Peak
15690	50.48	-23.52	74	52.32	39.89	11.75	53.48	100	0	Peak

Other harmonics are lower than background noise

Test Mode :	802.11n HT40	Temperature :	22~24℃
Test Channel :	54	Relative Humidity :	47~49%
Test Engineer :	Marlboro Hsu		
Remark :	1. 5272 MHz is fundamental signal which can be ignored. 2. 10539 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 (5th ,6th , 7th,…etc.) and other spurious are not reported, because those levels are lower than average limit line and background noise		

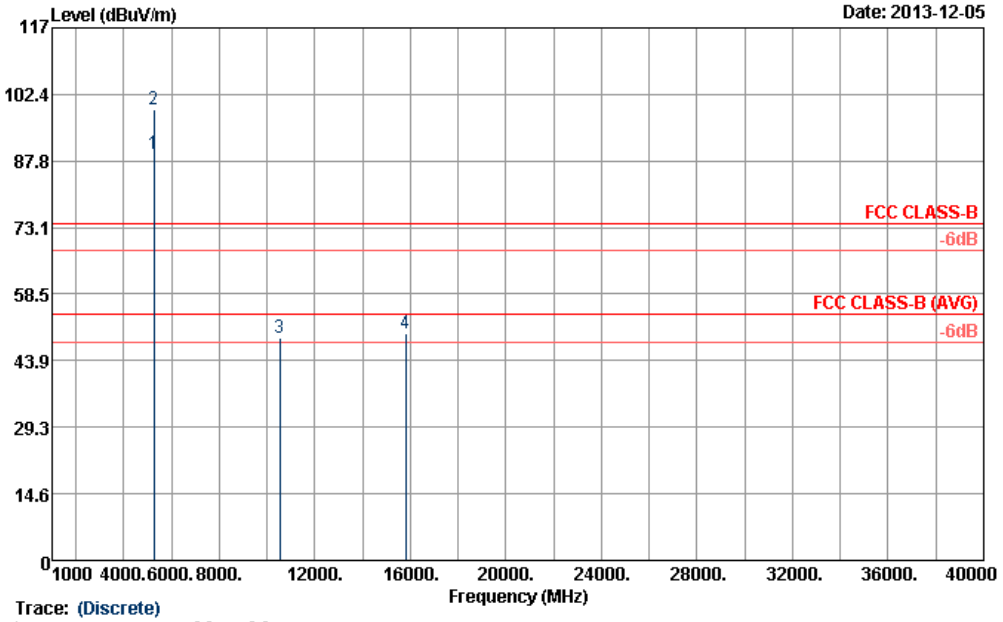


ANTENNA POLARITY : HORIZONTAL

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	95.75	-	-	83.87	34.57	10.61	33.3	102	286	Average
5272	105.63	-	-	93.75	34.57	10.61	33.3	102	286	Peak
10539	47.95	-26.05	74	55.12	37.32	10.67	55.16	100	0	Peak
15810	50.14	-23.86	74	51.64	40.01	11.71	53.22	100	0	Peak

Other harmonics are lower than background noise

Test Mode :	802.11n HT40	Temperature :	22~24℃
Test Channel :	54	Relative Humidity :	47~49%
Test Engineer :	Marlboro Hsu		
Remark :	1. 5272 MHz is fundamental signal which can be ignored. 2. 10539 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 (5th ,6th , 7th,…etc.) and other spurious are not reported, because those levels are lower than average limit line and background noise		



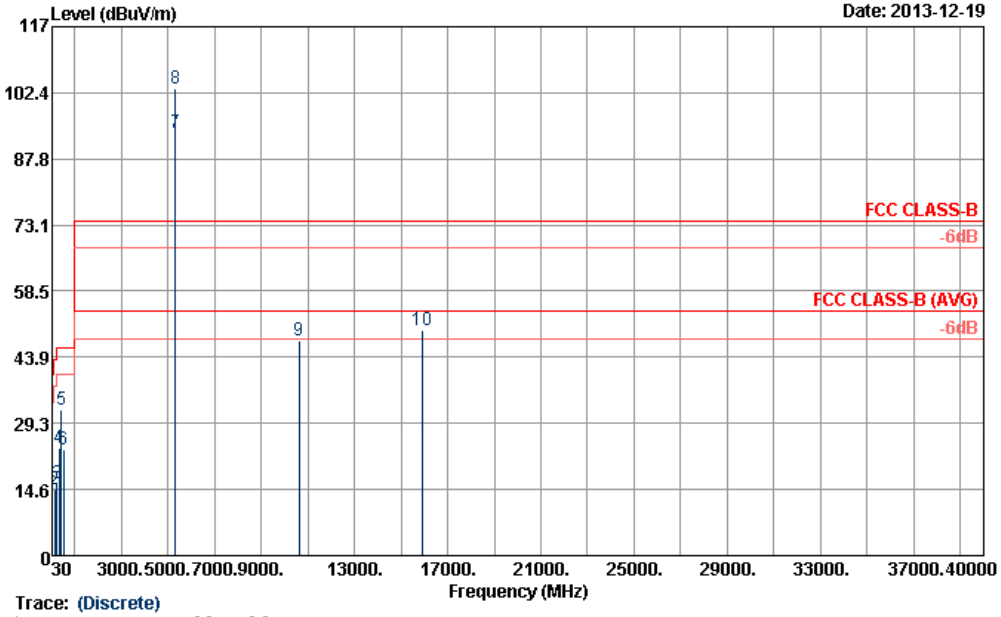
Site : 03CH06-HY
Condition : FCC CLASS-B 3m SHF-EHF VERTICAL

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
5272	89.27	-	-	77.39	34.57	10.61	33.3	100	268	Average
5272	99.19	-	-	87.31	34.57	10.61	33.3	100	268	Peak
10539	49.02	-24.98	74	56.19	37.32	10.67	55.16	100	0	Peak
15810	49.82	-24.18	74	51.32	40.01	11.71	53.22	100	0	Peak

Other harmonics are lower than background noise

Test Mode :	802.11n HT40	Temperature :	22~24℃
Test Channel :	62	Relative Humidity :	47~49%
Test Engineer :	Marlboro Hsu		
Remark :	1. 5311 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 (5th ,6th , 7th,…etc.) and other spurious are not reported, because those levels are lower than average limit line and background noise		

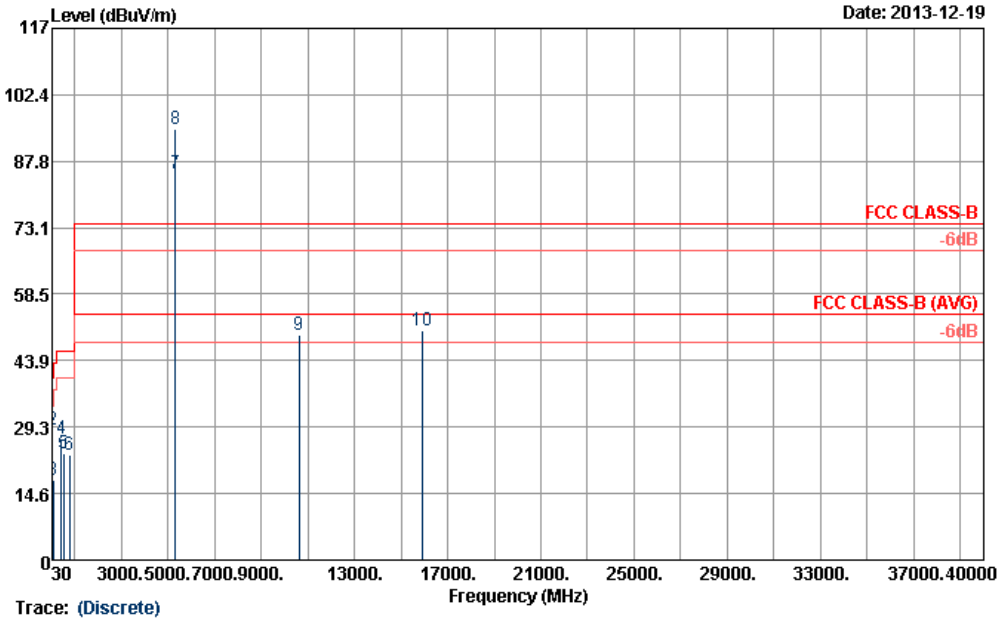


ANTENNA POLARITY : HORIZONTAL

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	17.66	-22.34	40	30.32	18.5	0.64	31.8	-	-	Peak
147.45	14.65	-28.85	43.5	34.43	10.64	1.33	31.75	-	-	Peak
223.86	15.95	-30.05	46	36.45	9.6	1.64	31.74	-	-	Peak
326.6	23.83	-22.17	46	39.9	13.7	1.98	31.75	-	-	Peak
429.5	32.13	-13.87	46	44.92	16.8	2.26	31.85	100	23	Peak
525.4	23.49	-22.51	46	34.75	18.18	2.52	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
5311	93.64	-	-	81.63	34.62	10.68	33.29	100	343	Average
5311	103.29	-	-	91.28	34.62	10.68	33.29	100	343	Peak
10620	47.66	-26.34	74	54.66	37.37	10.69	55.06	100	0	Peak
15930	49.72	-24.28	74	50.87	40.13	11.67	52.95	100	0	Peak
Other harmonics are lower than background noise										

Test Mode :	802.11n HT40	Temperature :	22~24℃
Test Channel :	62	Relative Humidity :	47~49%
Test Engineer :	Marlboro Hsu		
Remark :	1. 5311 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 (5th ,6th , 7th,…etc.) and other spurious are not reported, because those levels are lower than average limit line and background noise		

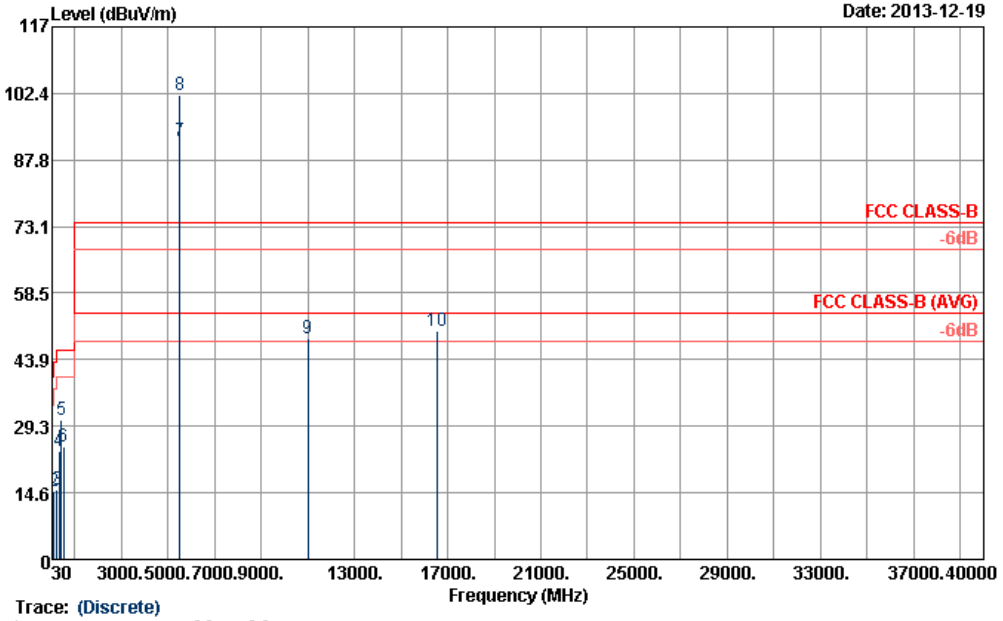


ANTENNA POLARITY : VERTICAL

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	30.26	-9.74	40	42.92	18.5	0.64	31.8	100	27	Peak
34.05	28.74	-11.26	40	43.75	16.1	0.68	31.79	-	-	Peak
92.64	17.53	-25.97	43.5	38.71	9.5	1.07	31.75	-	-	Peak
433	26.71	-19.29	46	39.5	16.8	2.27	31.86	-	-	Peak
538	23.55	-22.45	46	34.05	18.95	2.53	31.98	-	-	Peak
784.4	23.17	-22.83	46	31.92	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
5311	84.95	-	-	72.94	34.62	10.68	33.29	100	322	Average
5311	94.82	-	-	82.81	34.62	10.68	33.29	100	322	Peak
10620	49.68	-24.32	74	56.68	37.37	10.69	55.06	100	0	Peak
15930	50.48	-23.52	74	51.63	40.13	11.67	52.95	100	0	Peak
Other harmonics are lower than background noise										

Test Mode :	802.11n HT40	Temperature :	22~24℃
Test Channel :	102	Relative Humidity :	47~49%
Test Engineer :	Marlboro Hsu		
Remark :	1. 5509 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 (5th ,6th , 7th,…etc.) and other spurious are not reported, because those levels are lower than average limit line and background noise		



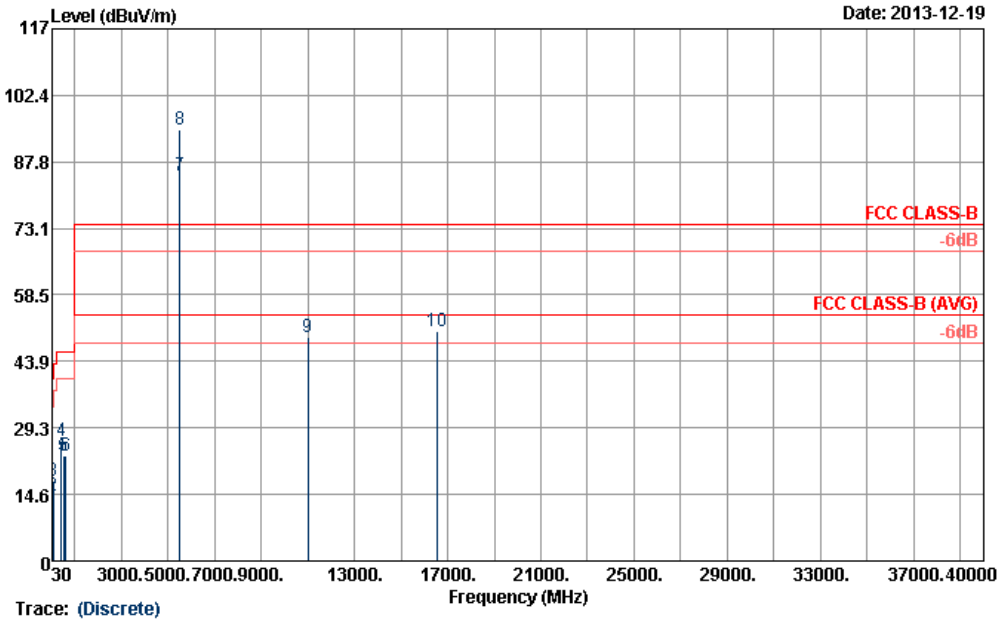
Site : 03CH06-HY
Condition : FCC CLASS-B 3m SHF-EHF HORIZONTAL

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
30	17.11	-22.89	40	29.77	18.5	0.64	31.8	-	-	Peak
121.8	14.99	-28.51	43.5	33.39	12.12	1.23	31.75	-	-	Peak
223.86	15.34	-30.66	46	35.84	9.6	1.64	31.74	-	-	Peak
333.6	23.78	-22.22	46	39.73	13.81	1.99	31.75	-	-	Peak
429.5	30.79	-15.21	46	43.58	16.8	2.26	31.85	100	236	Peak
525.4	24.88	-21.12	46	36.14	18.18	2.52	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
5509	91.8	-	-	79.26	34.8	10.96	33.22	100	342	Average
5509	101.88	-	-	89.34	34.8	10.96	33.22	100	342	Peak
11019	48.59	-25.41	74	54.79	37.61	10.76	54.57	100	0	Peak
16530	50.11	-23.89	74	50.52	41.03	11.83	53.27	100	0	Peak
Other harmonics are lower than background noise										

Test Mode :	802.11n HT40	**Temperature :**	22~24℃
Test Channel :	102	**Relative Humidity :**	47~49%
Test Engineer :	Marlboro Hsu		
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 (5th ,6th , 7th,…etc.) and other spurious are not reported, because those levels are lower than average limit line and background noise		

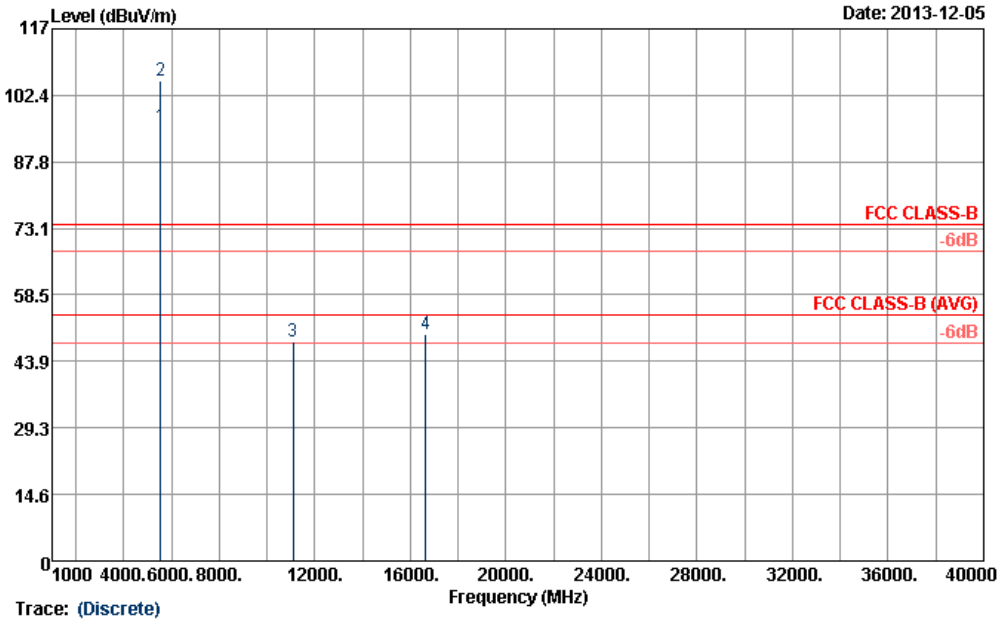


ANTENNA POLARITY : VERTICAL

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	29.95	-10.05	40	42.61	18.5	0.64	31.8	100	312	Peak
67.26	14.36	-25.64	40	38.95	6.26	0.92	31.77	-	-	Peak
91.56	17.75	-25.75	43.5	39.55	8.9	1.06	31.76	-	-	Peak
438.6	26.53	-19.47	46	39.3	16.8	2.29	31.86	-	-	Peak
525.4	23.3	-22.7	46	34.56	18.18	2.52	31.96	-	-	Peak
611.5	23.04	-22.96	46	32.81	19.51	2.78	32.06	-	-	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	84.86	-	-	72.32	34.8	10.96	33.22	100	263	Average
5512	94.8	-	-	82.26	34.8	10.96	33.22	100	263	Peak
11019	49.14	-24.86	74	55.34	37.61	10.76	54.57	100	0	Peak
16530	50.36	-23.64	74	50.77	41.03	11.83	53.27	100	0	Peak
Other harmonics are lower than background noise										

Test Mode :	802.11n HT40	Temperature :	22~24℃
Test Channel :	110	Relative Humidity :	47~49%
Test Engineer :	Marlboro Hsu		
Remark :	1. 5552 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 (5th ,6th , 7th,…etc.) and other spurious are not reported, because those levels are lower than average limit line and background noise		

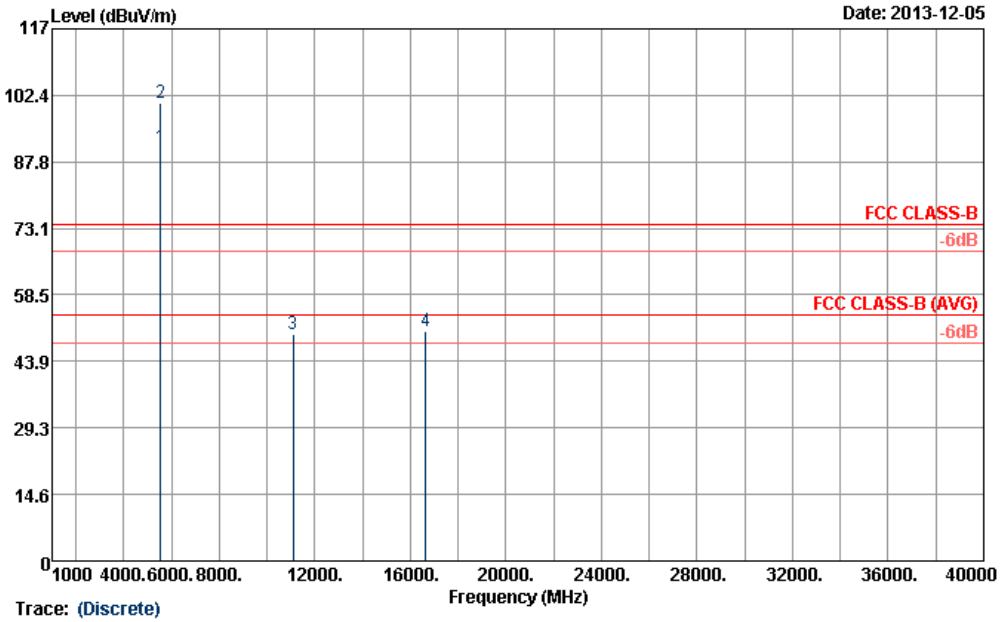


ANTENNA POLARITY : HORIZONTAL

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
5552	95.39	-	-	82.73	34.85	11.05	33.24	100	356	Average
5552	105.69	-	-	93.03	34.85	11.05	33.24	100	356	Peak
11100	48.3	-25.7	74	54.28	37.64	10.82	54.44	100	0	Peak
16650	49.73	-24.27	74	49.87	41.16	11.88	53.18	100	0	Peak

Other harmonics are lower than background noise

Test Mode :	802.11n HT40	**Temperature :**	22~24℃
Test Channel :	110	**Relative Humidity :**	47~49%
Test Engineer :	Marlboro Hsu		
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 (5th ,6th , 7th,…etc.) and other spurious are not reported, because those levels are lower than average limit line and background noise		

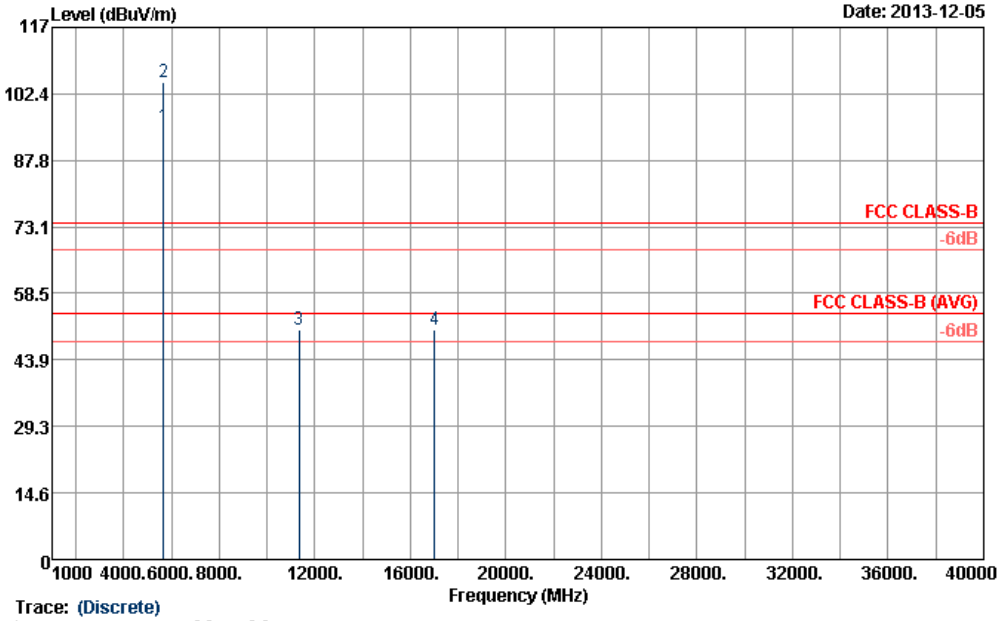


ANTENNA POLARITY : VERTICAL

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
5548	91.02	-	-	78.35	34.85	11.05	33.23	104	273	Average
5548	100.61	-	-	87.94	34.85	11.05	33.23	104	273	Peak
11100	49.9	-24.1	74	55.88	37.64	10.82	54.44	100	0	Peak
16650	50.67	-23.33	74	50.81	41.16	11.88	53.18	100	0	Peak

Other harmonics are lower than background noise

Test Mode :	802.11n HT40	Temperature :	22~24℃
Test Channel :	134	Relative Humidity :	47~49%
Test Engineer :	Marlboro Hsu		
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 (5th ,6th , 7th,…etc.) and other spurious are not reported, because those levels are lower than average limit line and background noise		



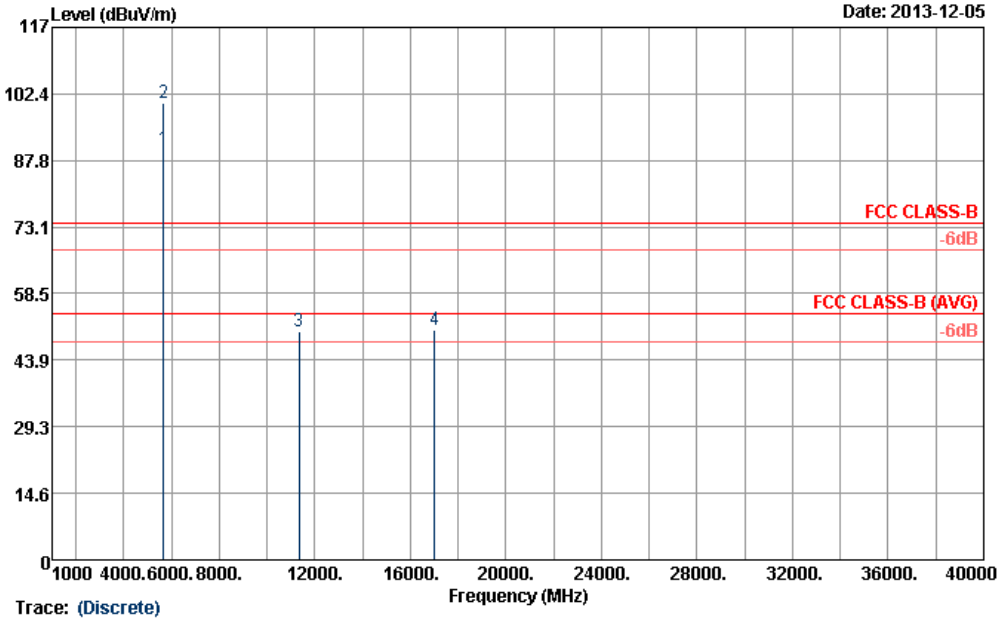
Site : 03CH06-HY
Condition : FCC CLASS-B 3m SHF-EHF HORIZONTAL

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
5668	95.32	-	-	82.4	34.97	11.22	33.27	100	354	Average
5668	104.93	-	-	92.01	34.97	11.22	33.27	100	354	Peak
11340	50.65	-23.35	74	56.03	37.73	10.96	54.07	100	0	Peak
17010	50.58	-23.42	74	50.04	41.47	12	52.93	100	0	Peak

Other harmonics are lower than background noise

Test Mode :	802.11n HT40	Temperature :	22~24℃
Test Channel :	134	Relative Humidity :	47~49%
Test Engineer :	Marlboro Hsu		
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 (5th ,6th , 7th,…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 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
5668	90.31	-	-	77.39	34.97	11.22	33.27	100	270	Average
5668	100.46	-	-	87.54	34.97	11.22	33.27	100	270	Peak
11340	50.31	-23.69	74	55.69	37.73	10.96	54.07	100	0	Peak
17010	50.59	-23.41	74	50.05	41.47	12	52.93	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.

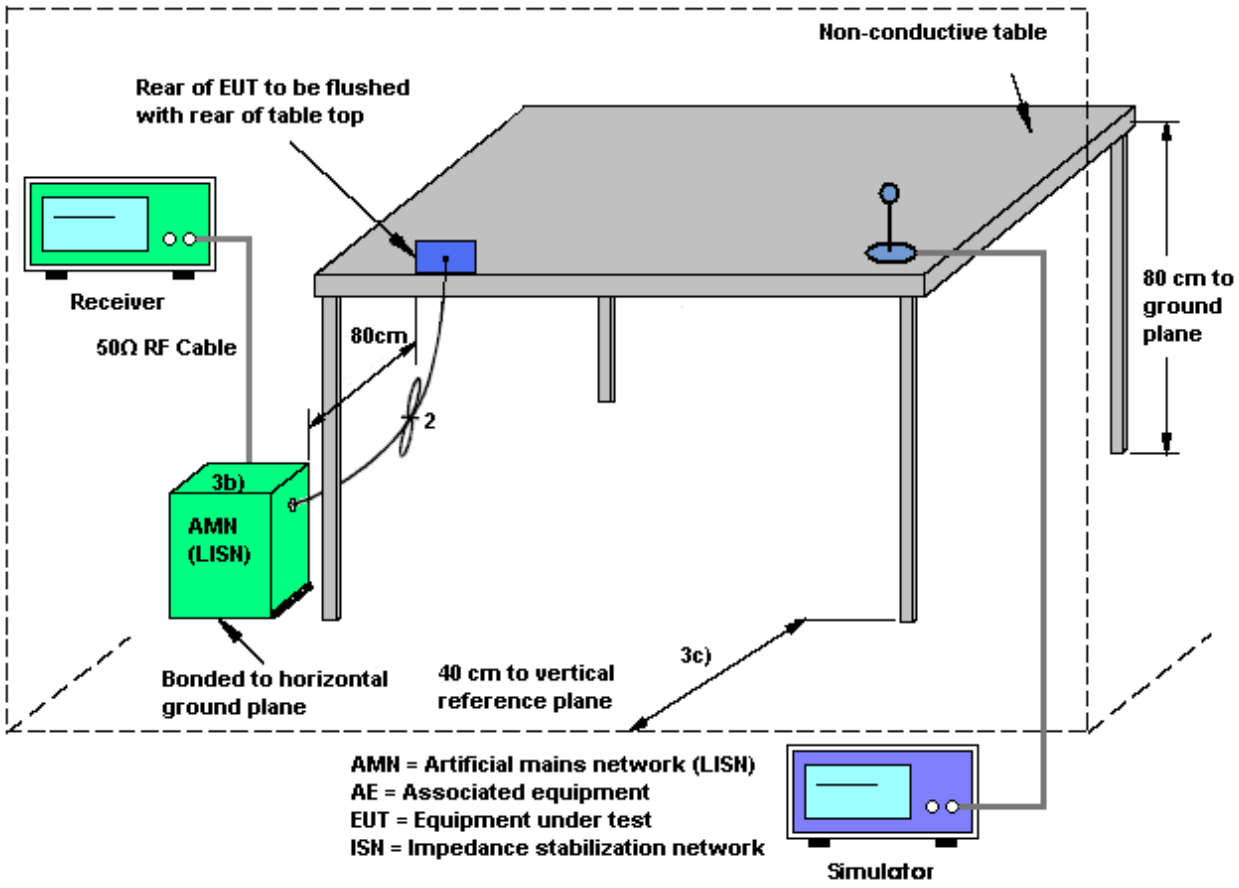
3.6.2 Measuring Instruments

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

3.6.3 Test Procedures

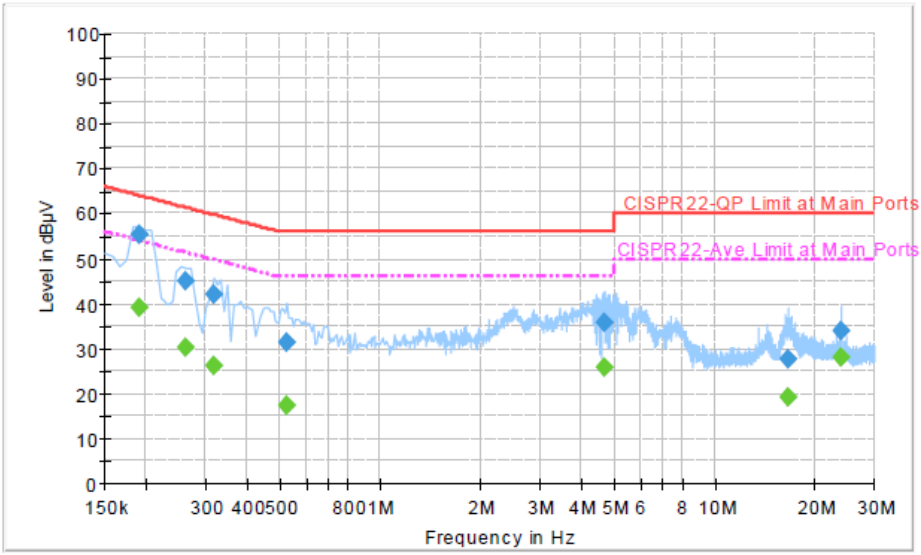
1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
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 :	45~47%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Function Type :	GSM1900 Idle + Bluetooth Link + WLAN Idle + GPS Rx + Earphone + Battery + USB Cable (Data Link with Notebook)		



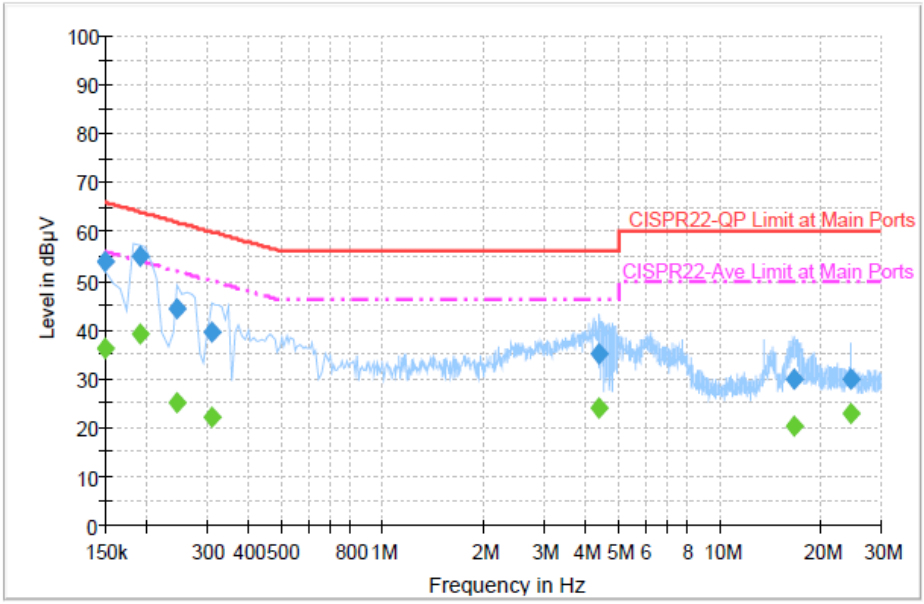
Final Result : QuasiPeak

Frequency (MHz)	QuasiPeak (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.190000	55.3	Off	L1	19.4	8.7	64.0
0.262000	45.0	Off	L1	19.4	16.4	61.4
0.318000	42.0	Off	L1	19.4	17.8	59.8
0.526000	31.4	Off	L1	19.4	24.6	56.0
4.662000	35.9	Off	L1	19.6	20.1	56.0
16.646000	27.7	Off	L1	19.8	32.3	60.0
23.862000	34.0	Off	L1	19.9	26.0	60.0

Final Result : Average

Frequency (MHz)	Average (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.190000	39.3	Off	L1	19.4	14.7	54.0
0.262000	30.2	Off	L1	19.4	21.2	51.4
0.318000	26.2	Off	L1	19.4	23.6	49.8
0.526000	17.3	Off	L1	19.4	28.7	46.0
4.662000	25.7	Off	L1	19.6	20.3	46.0
16.646000	19.4	Off	L1	19.8	30.6	50.0
23.862000	28.0	Off	L1	19.9	22.0	50.0

Test Mode :	Mode 1	Temperature :	20~22℃
Test Engineer :	Cosmo Xu	Relative Humidity :	45~47%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Function Type :	GSM1900 Idle + Bluetooth Link + WLAN Idle + GPS Rx + Earphone + Battery + USB Cable (Data Link with Notebook)		



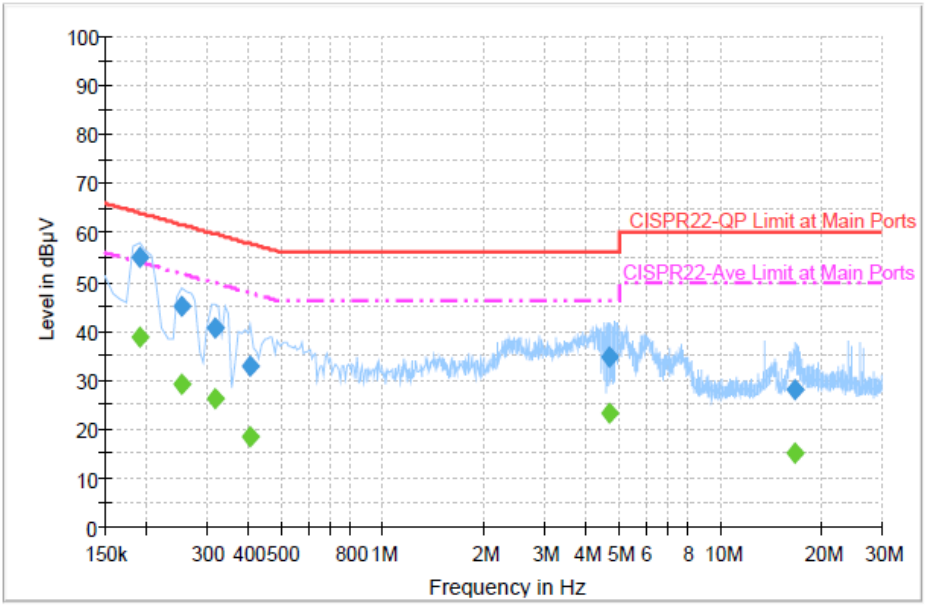
Final Result : QuasiPeak

Frequency (MHz)	QuasiPeak (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.150000	54.0	Off	N	19.4	12.0	66.0
0.190000	54.8	Off	N	19.3	8.9	63.7
0.246000	44.2	Off	N	19.4	17.7	61.9
0.310000	39.5	Off	N	19.4	20.5	60.0
4.398000	35.1	Off	N	19.7	20.9	56.0
16.654000	29.7	Off	N	19.9	30.3	60.0
24.542000	30.0	Off	N	20.0	30.0	60.0

Final Result : Average

Frequency (MHz)	Average (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.150000	36.0	Off	N	19.4	20.0	56.0
0.190000	39.0	Off	N	19.3	14.7	53.7
0.246000	24.9	Off	N	19.4	27.0	51.9
0.310000	22.1	Off	N	19.4	27.9	50.0
4.398000	23.9	Off	N	19.7	22.1	46.0
16.654000	20.5	Off	N	19.9	29.5	50.0
24.542000	23.0	Off	N	20.0	27.0	50.0

Test Mode :	Mode 2	Temperature :	20~22℃
Test Engineer :	Cosmo Xu	Relative Humidity :	45~47%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Function Type :	GSM1900 Idle + Bluetooth Idle + WLAN (5GHz) Link + GPS Rx + Earphone + Battery + USB Cable (Data Link with Notebook)		



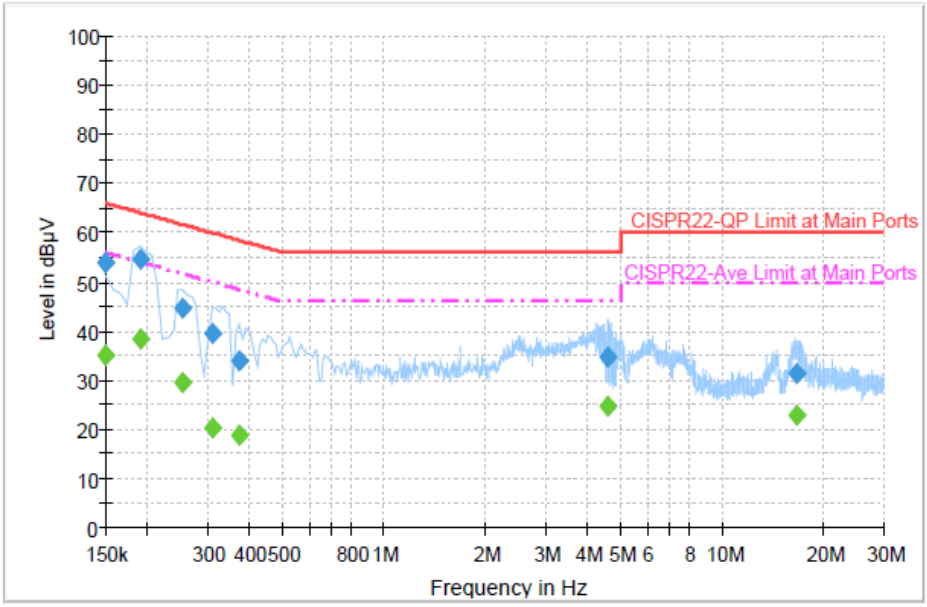
Final Result : Quasi-Peak

Frequency (MHz)	Quasi-Peak (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.190000	54.8	Off	L1	19.4	9.2	64.0
0.254000	44.9	Off	L1	19.5	16.7	61.6
0.318000	40.7	Off	L1	19.4	19.1	59.8
0.406000	33.0	Off	L1	19.4	24.7	57.7
4.662000	34.7	Off	L1	19.6	21.3	56.0
16.534000	28.0	Off	L1	19.9	32.0	60.0

Final Result : Average

Frequency (MHz)	Average (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.190000	38.7	Off	L1	19.4	15.3	54.0
0.254000	29.0	Off	L1	19.5	22.6	51.6
0.318000	26.2	Off	L1	19.4	23.6	49.8
0.406000	18.4	Off	L1	19.4	29.3	47.7
4.662000	23.3	Off	L1	19.6	22.7	46.0
16.534000	15.3	Off	L1	19.9	34.7	50.0

Test Mode :	Mode 2	Temperature :	20~22℃
Test Engineer :	Cosmo Xu	Relative Humidity :	45~47%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Function Type :	GSM1900 Idle + Bluetooth Idle + WLAN (5GHz) Link + GPS Rx + Earphone + Battery + USB Cable (Data Link with Notebook)		



Final Result : Quasi-Peak

Frequency (MHz)	Quasi-Peak (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.150000	54.0	Off	N	19.4	12.0	66.0
0.190000	54.7	Off	N	19.4	9.3	64.0
0.254000	44.5	Off	N	19.5	17.1	61.6
0.310000	39.6	Off	N	19.4	20.4	60.0
0.374000	33.9	Off	N	19.4	24.5	58.4
4.598000	34.7	Off	N	19.7	21.3	56.0
16.558000	31.2	Off	N	19.9	28.8	60.0

Final Result : Average

Frequency (MHz)	Average (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.150000	35.0	Off	N	19.4	21.0	56.0
0.190000	38.4	Off	N	19.4	15.6	54.0
0.254000	29.5	Off	N	19.5	22.1	51.6
0.310000	20.2	Off	N	19.4	29.8	50.0
0.374000	19.0	Off	N	19.4	29.4	48.4
4.598000	24.6	Off	N	19.7	21.4	46.0
16.558000	22.8	Off	N	19.9	27.2	50.0

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.

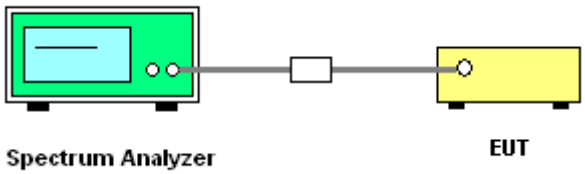
3.7.2 Measuring Instruments

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 1,2,3	Temperature :	21~26℃
Test Engineer :	Osolemio Chang	Relative Humidity :	45~54%

Mod.	Data Rate	N_{TX}	Channel	Frequency (MHz)	Center Frequency (Hz)	Frequency Deviation (Hz)	Frequency Stability (ppm)
11a	6Mbps	1	36	5180	5180025000	25000	4.83
11a	6Mbps	1	48	5240	5240075000	75000	14.31

Mod.	Data Rate	N_{TX}	Channel	Freq. (MHz)	Center Frequency (Hz)	Frequency Deviation (Hz)	Frequency Stability (ppm)
11a	6Mbps	1	52	5260	5260050000	50000	9.51
11a	6Mbps	1	64	5320	5320025000	25000	4.70

Mod.	Data Rate	N_{TX}	Channel	Freq. (MHz)	Center Frequency (Hz)	Frequency Deviation (Hz)	Frequency Stability (ppm)
11a	6Mbps	1	100	5500	5500050000	50000	9.09
11a	6Mbps	1	140	5700	5700050000	50000	8.77

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 Equipment

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	Nov. 29, 2013 ~ Dec. 25, 2013	Jun. 06, 2014	Conducted (TH02-HY)
Signal Analyzer	Rohde & Schwarz	FSQ	200578/026	20Hz~26.5GHz	Feb. 11, 2014	Feb. 14, 2014	Feb. 10, 2015	Conducted (TH02-HY)
Power Meter	Anritsu	ML2495A	1036004	300MHz~40GHz	Aug. 17, 2013	Nov. 29, 2013 ~ Dec. 25, 2013	Aug. 16, 2014	Conducted (TH02-HY)
Power Sensor	Anritsu	MA2411B	1027253	300MHz~40GHz	Aug. 17, 2013	Nov. 29, 2013 ~ Dec. 25, 2013	Aug. 16, 2014	Conducted (TH02-HY)
Hygrometer	Testo	608-H1	34897199	N/A	May 07, 2013	Nov. 29, 2013 ~ Feb. 14, 2014	May 06, 2014	Conducted (TH02-HY)
RF cable	WOKEN	SMA(M)-SMA(M) for SS405 Cable Assembly	S05-130703-32	N/A	Jul. 09, 2013	Nov. 29, 2013 ~ Feb. 14, 2014	Jul. 08, 2014	Conducted (TH02-HY)
Spectrum Analyzer	R&S	FSP30	101067	9kHz ~ 30GHz	Nov. 20, 2013	Dec. 04, 2013 ~ Dec. 19, 2013	Nov. 19, 2014	Radiation (03CH06-HY)
Spectrum Analyzer	Agilent	E4408B	MY44211030	9kHz ~ 26.5GHz	Dec. 02, 2013	Dec. 04, 2013 ~ Dec. 19, 2013	Dec. 01, 2014	Radiation (03CH06-HY)
EMI Test Receiver	R&S	ESVS10	834468/0003	20MHz ~ 1000MHz	May 06, 2013	Dec. 04, 2013 ~ Dec. 19, 2013	May 05, 2014	Radiation (03CH06-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	860004/0001	9kHz ~ 30MhZ	Jul. 03, 2012	Dec. 04, 2013 ~ Dec. 19, 2013	Jul. 02, 2014	Radiation (03CH06-HY)
Bilog Antenna	Schaffner	CBL6112B	2885	30MHz ~ 2GHz	Oct. 10, 2013	Dec. 04, 2013 ~ Dec. 19, 2013	Oct. 09, 2014	Radiation (03CH06-HY)
Double Ridge Horn Antenna	EMCO	3117	00066583	1GHz ~ 18GHz	Aug. 02, 2013	Dec. 04, 2013 ~ Dec. 19, 2013	Aug. 01, 2014	Radiation (03CH06-HY)
Amplifier	Agilent	310N	186713	9kHz ~ 1GHz	Apr. 12, 2013	Dec. 04, 2013 ~ Dec. 19, 2013	Apr. 11, 2014	Radiation (03CH06-HY)
Pre Amplifier	EMCI	EMC051845	SN980048	1GHz ~ 18GHz	Jul. 18, 2013	Dec. 04, 2013 ~ Dec. 19, 2013	Jul. 17, 2014	Radiation (03CH06-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170251	15GHz ~ 40GHz	Oct. 03, 2013	Dec. 04, 2013 ~ Dec. 19, 2013	Oct. 02, 2014	Radiation (03CH06-HY)
Preamplifier	Agilent	8449B	3008A01917	1GHz ~ 26.5GHz	Apr. 12, 2013	Dec. 04, 2013 ~ Dec. 19, 2013	Apr. 11, 2014	Radiation (03CH06-HY)
Turn Table	INN-CO	DS2000	420/650/00	0 ~ 360 degree	N/A	Dec. 04, 2013 ~ Dec. 19, 2013	N/A	Radiation (03CH06-HY)
Antenna Mast	MF	MF-7802	MF780208212	1 m ~ 4 m	N/A	Dec. 04, 2013 ~ Dec. 19, 2013	N/A	Radiation (03CH06-HY)
LF RF Cable	warison	WCBA-WC04NM.NM2	N/A	30MHz~1GHz	Nov. 28, 2013	Dec. 04, 2013 ~ Dec. 19, 2013	Nov. 27, 2014	Radiation (03CH06-HY)
HF RF Cable	Huber + Suhner	sucoflex 104	286027/4	1GHz~26.5GHz	Nov. 28, 2013	Dec. 04, 2013 ~ Dec. 19, 2013	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	Dec. 04, 2013 ~ Dec. 19, 2013	Nov. 27, 2014	Radiation (03CH06-HY)
Low Pass Filter	Wainwright	WLKS1500-8SS	SN51	1.5G LPF	Nov. 28, 2013	Dec. 04, 2013 ~ Dec. 19, 2013	Nov. 27, 2014	Radiation (03CH06-HY)
Hygrometer	WISEWIND	410	BU5004	N/A	May 07, 2013	Dec. 04, 2013 ~ Dec. 19, 2013	May 06, 2014	Radiation (03CH06-HY)
Test Software	Audix	E3	Version 6.2009-8-24	N/A	N/A	Dec. 04, 2013 ~ Dec. 19, 2013	N/A	Radiation (03CH06-HY)
EMI Test Receiver	Rohde & Schwarz	ESCS 30	100356	9kHz ~ 2.75GHz	Nov. 15, 2013	Nov. 29, 2013	Nov. 14, 2014	Conduction (CO05-HY)
Two-LISN (for auxiliary equipment)	Rohde & Schwarz	ENV216	100081	9kHz ~ 30MHz	Dec. 12, 2012	Nov. 29, 2013	Dec. 11, 2013	Conduction (CO05-HY)
Two-LISN	Rohde & Schwarz	ENV216	100080	9kHz ~ 30MHz	Dec. 06, 2012	Nov. 29, 2013	Dec. 05, 2013	Conduction (CO05-HY)
AC Power Source	APC	APC-1000W	N/A	N/A	N/A	Nov. 29, 2013	N/A	Conduction (CO05-HY)
Test Software	N/A	EMC32	8.40.0	N/A	N/A	Nov. 29, 2013	N/A	Conduction (CO05-HY)
Hygrometer	Testo	608-H1	34913912	N/A	Apr. 25, 2013,	Nov. 29, 2013	Apr. 24, 2014	Conduction (CO05-HY)
LF Cable	Shuner	RG-402	N/A	N/A	Oct. 17, 2013	Nov. 29, 2013	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**