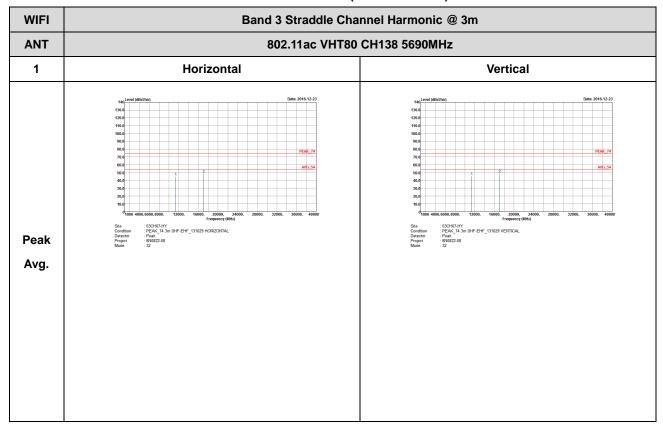
Band 3 - Straddle Channel

Report No.: FR6N0822-08D

WIFI 802.11ac VHT80 (Harmonic @ 3m)

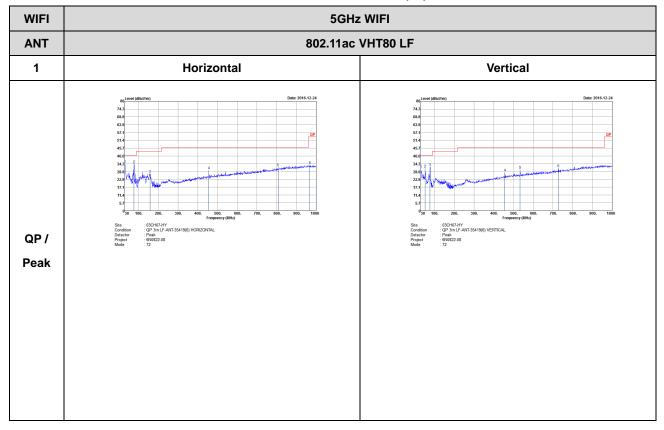


TEL: 886-3-327-3456 FAX: 886-3-328-4978

Emission below 1GHz

Report No.: FR6N0822-08D

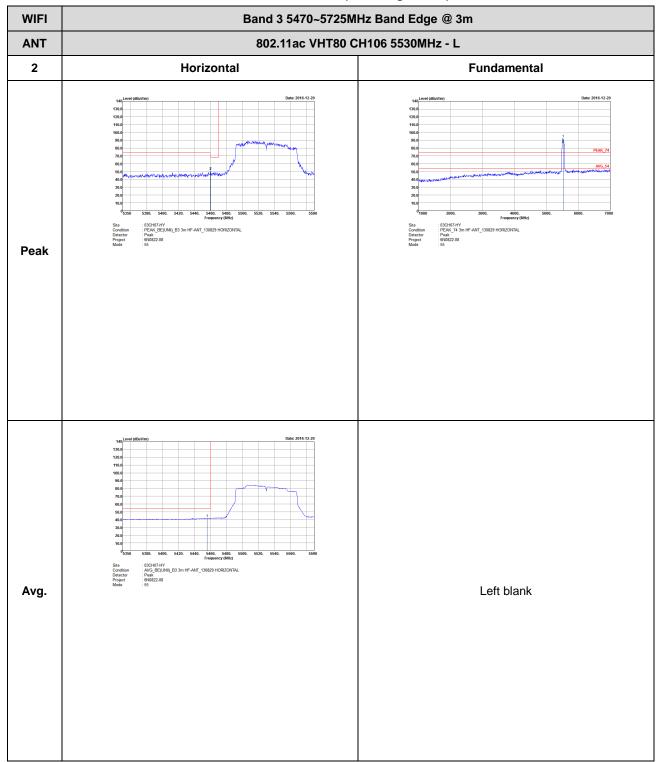
5GHz WIFI 802.11ac VHT80 (LF)



TEL: 886-3-327-3456 FAX: 886-3-328-4978

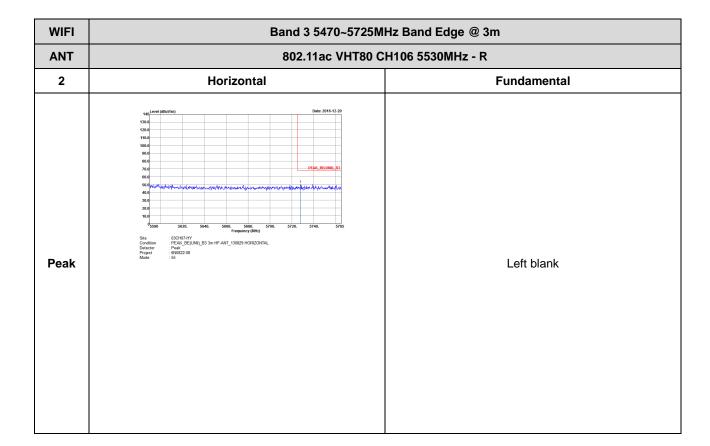
Band 3 - 5470~5725MHz

WIFI 802.11ac VHT80 (Band Edge @ 3m)



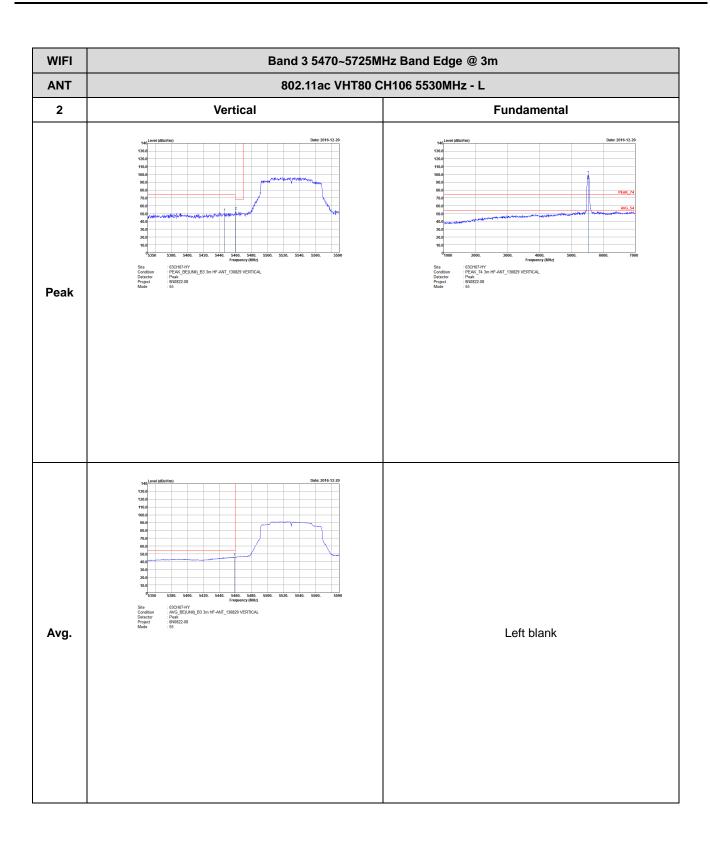
SPORTON INTERNATIONAL INC.

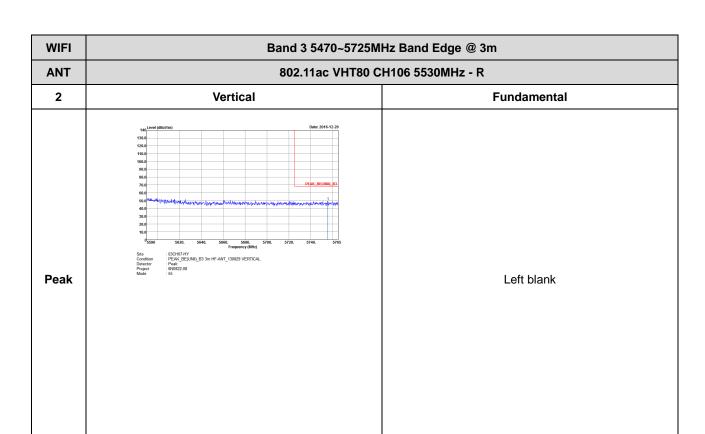
TEL: 886-3-327-3456 FAX: 886-3-328-4978



Report No.: FR6N0822-08D

TEL: 886-3-327-3456 FAX: 886-3-328-4978





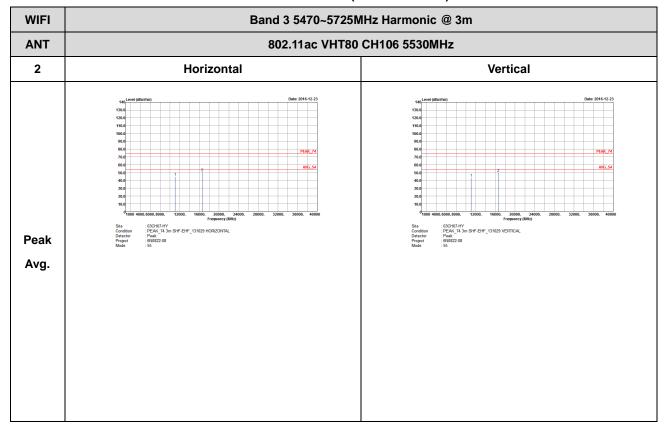
Report No.: FR6N0822-08D

: B2 - 4 of 6

TEL: 886-3-327-3456 FAX: 886-3-328-4978

Band 3 - 5470~5725MHz

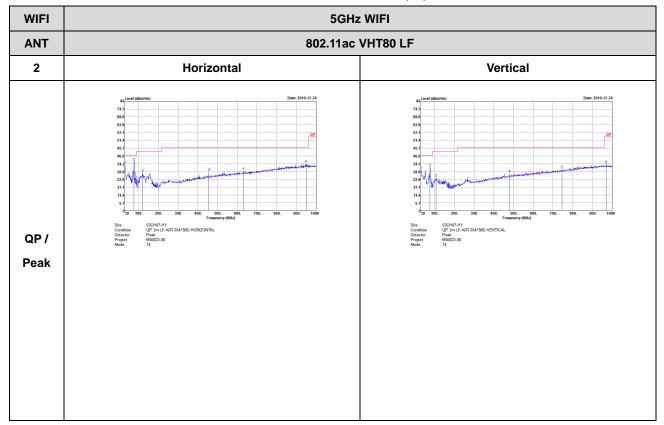
WIFI 802.11ac VHT80 (Harmonic @ 3m)



TEL: 886-3-327-3456 FAX: 886-3-328-4978

Emission below 1GHz

5GHz WIFI 802.11ac VHT80 (LF)

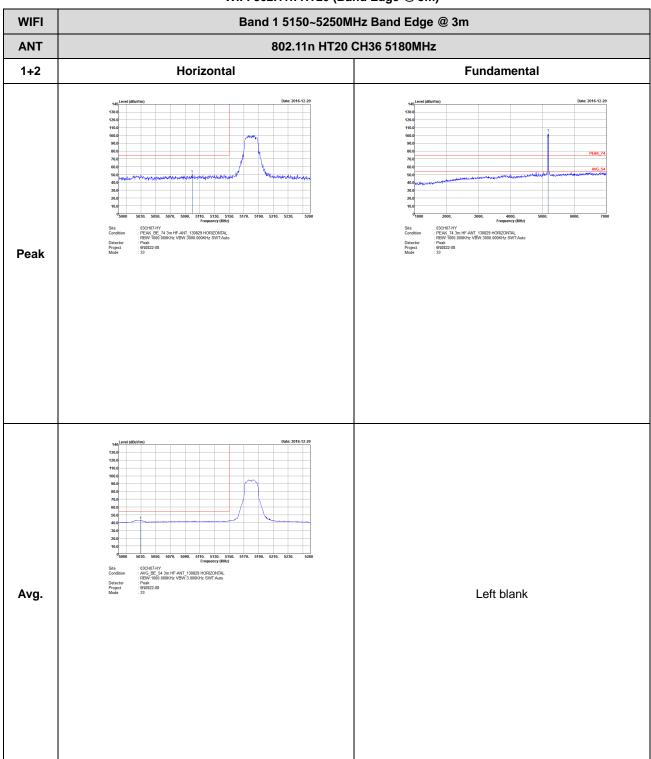


TEL: 886-3-327-3456 FAX: 886-3-328-4978

Band 1 - 5150~5250MHz

Report No.: FR6N0822-08D

WIFI 802.11n HT20 (Band Edge @ 3m)



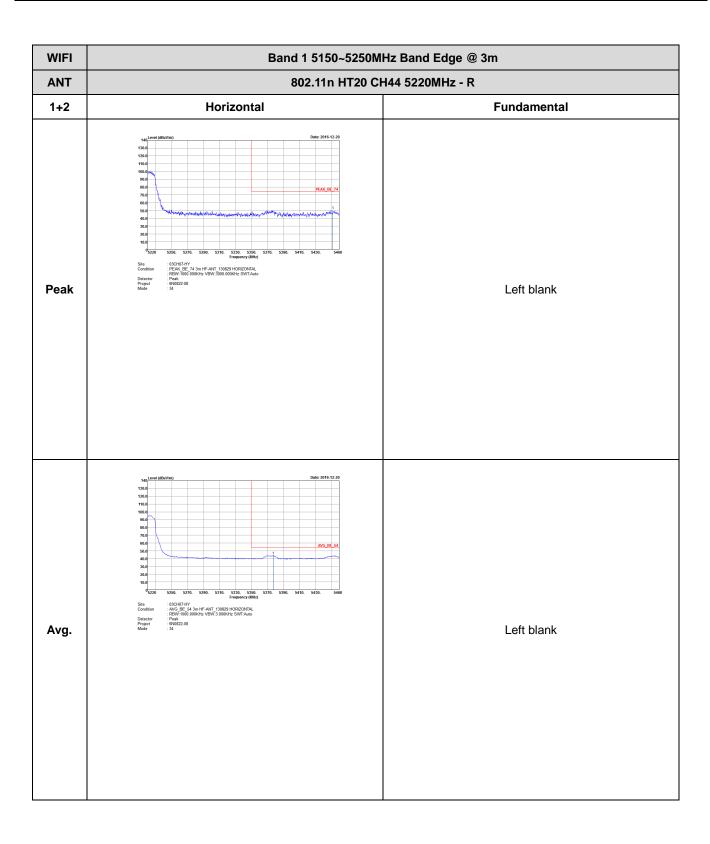
TEL: 886-3-327-3456 FAX: 886-3-328-4978

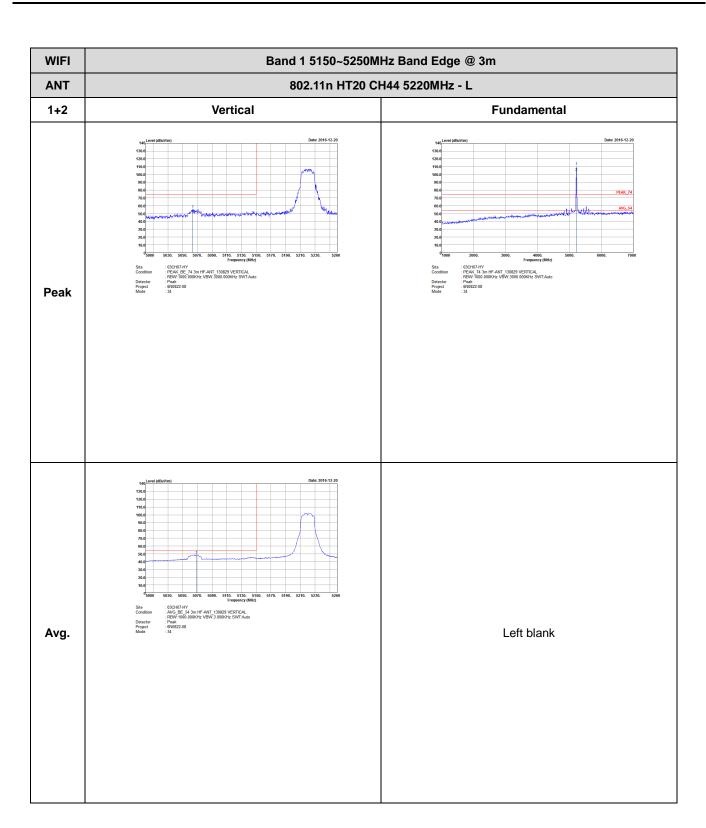
WIFI Band 1 5150~5250MHz Band Edge @ 3m **ANT** 802.11n HT20 CH36 5180MHz 1+2 Vertical **Fundamental** : 03CH07·HY : PEAK_BE_74 3m HF-ANT_130829 VERTICAL : RBW-1000.000KHz VBW:3000.000KHz SWT:Auto : Paak : 6N0822-08 : 33 Peak Left blank Avg.

TEL: 886-3-327-3456 FAX: 886-3-328-4978

WIFI Band 1 5150~5250MHz Band Edge @ 3m **ANT** 802.11n HT20 CH44 5220MHz - L 1+2 Horizontal **Fundamental** Peak Left blank Avg.

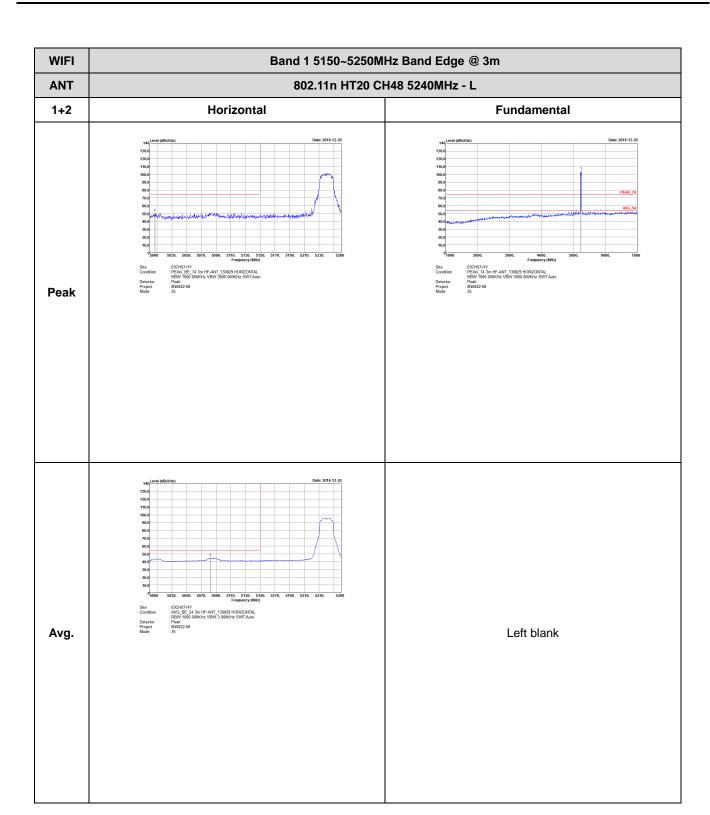
TEL: 886-3-327-3456 FAX: 886-3-328-4978

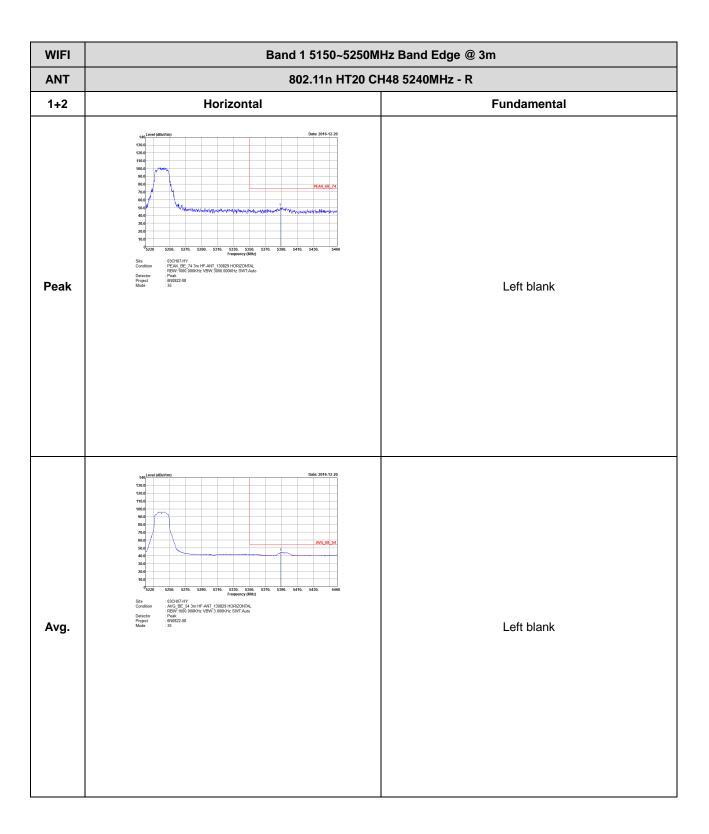


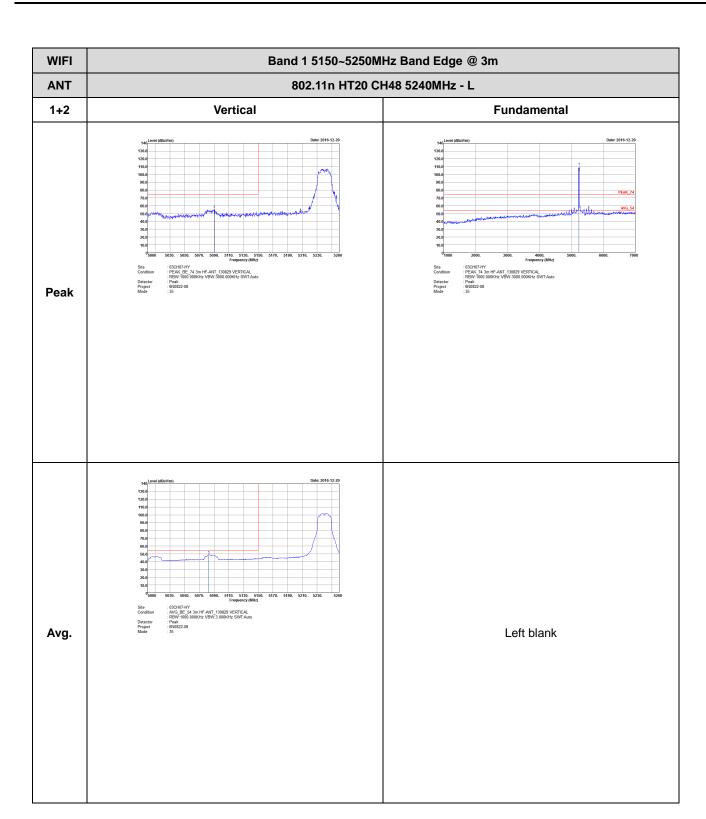


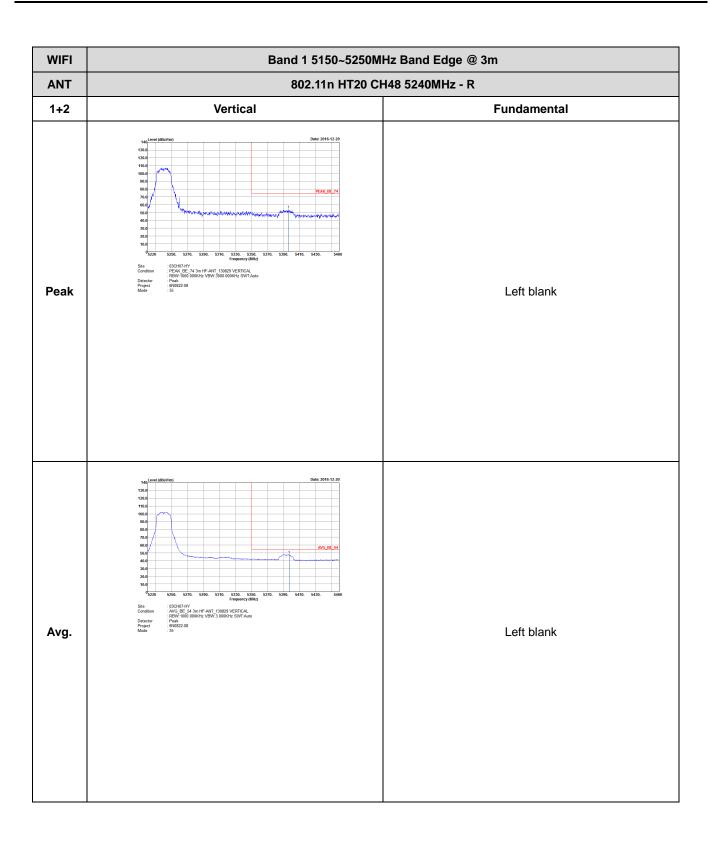
WIFI Band 1 5150~5250MHz Band Edge @ 3m **ANT** 802.11n HT20 CH44 5220MHz - R 1+2 Vertical **Fundamental** : 03CH07-HY : PEAK_BE_74 3m HF-ANT_130829 VERTICAL : RBW:1000_000KHz VBW:3000.000KHz SWT:Au : Peak : 6N0822-08 Peak Left blank Left blank Avg.

TEL: 886-3-327-3456 FAX: 886-3-328-4978



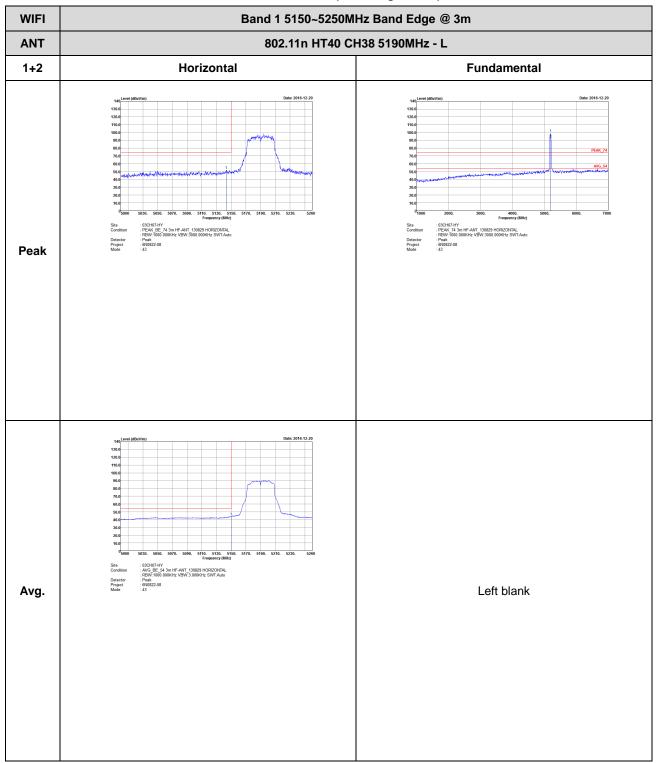






Band 1 5150~5250MHz

WIFI 802.11n HT40 (Band Edge @ 3m)

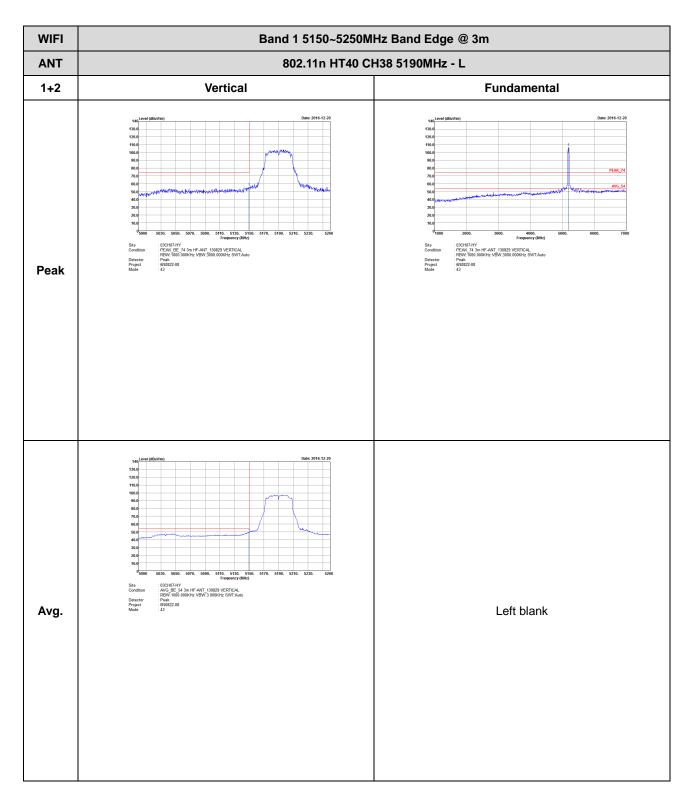


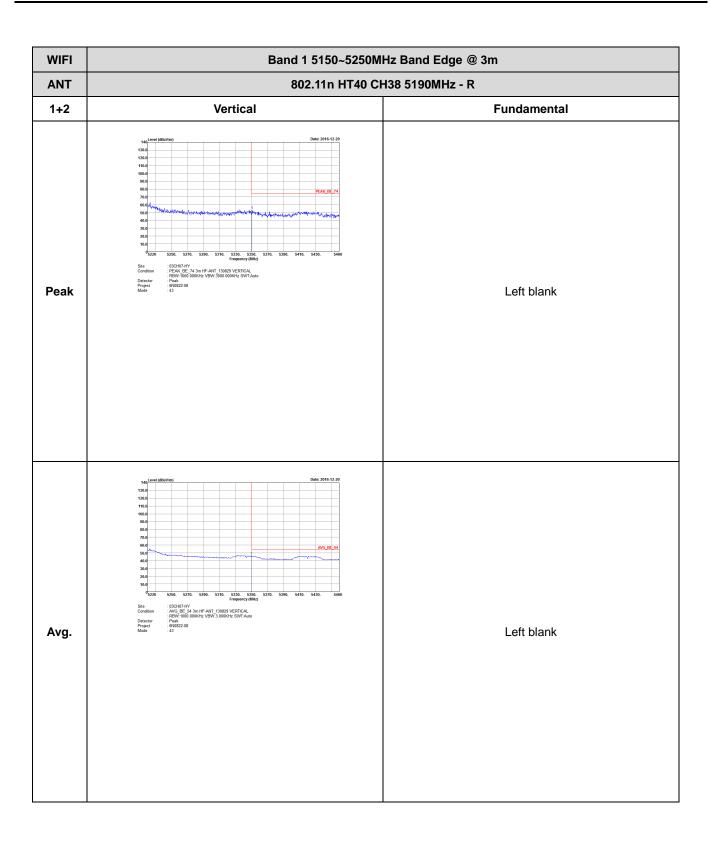
TEL: 886-3-327-3456 FAX: 886-3-328-4978

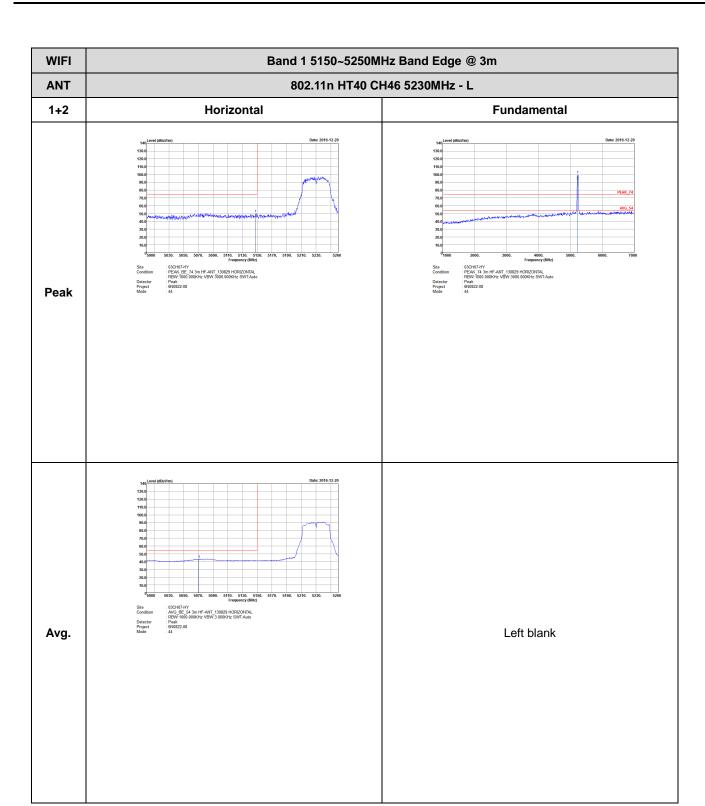
WIFI Band 1 5150~5250MHz Band Edge @ 3m **ANT** 802.11n HT40 CH38 5190MHz - R 1+2 Horizontal **Fundamental** Peak Left blank Left blank Avg.

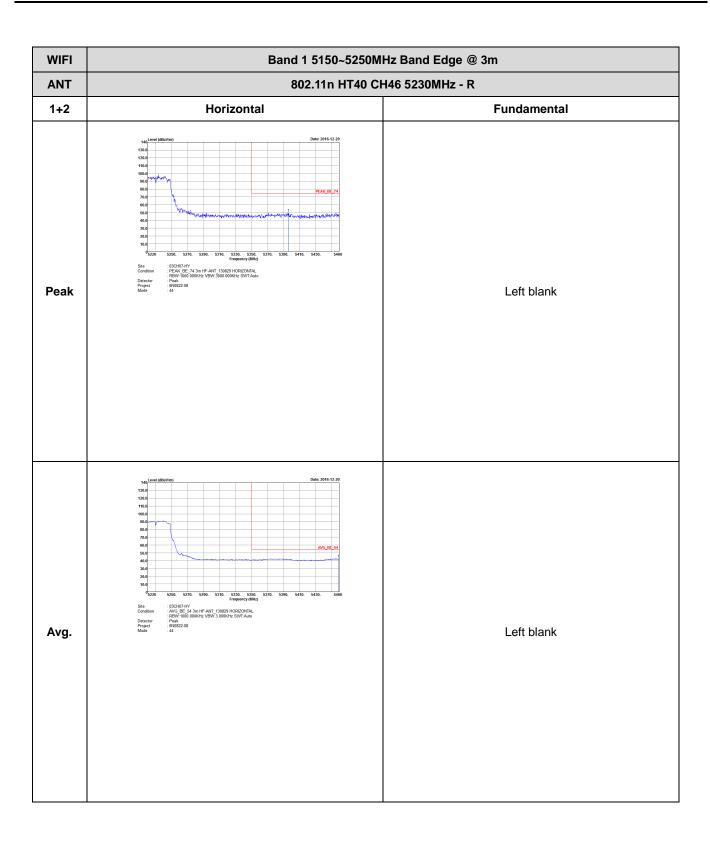
TEL: 886-3-327-3456 FAX: 886-3-328-4978



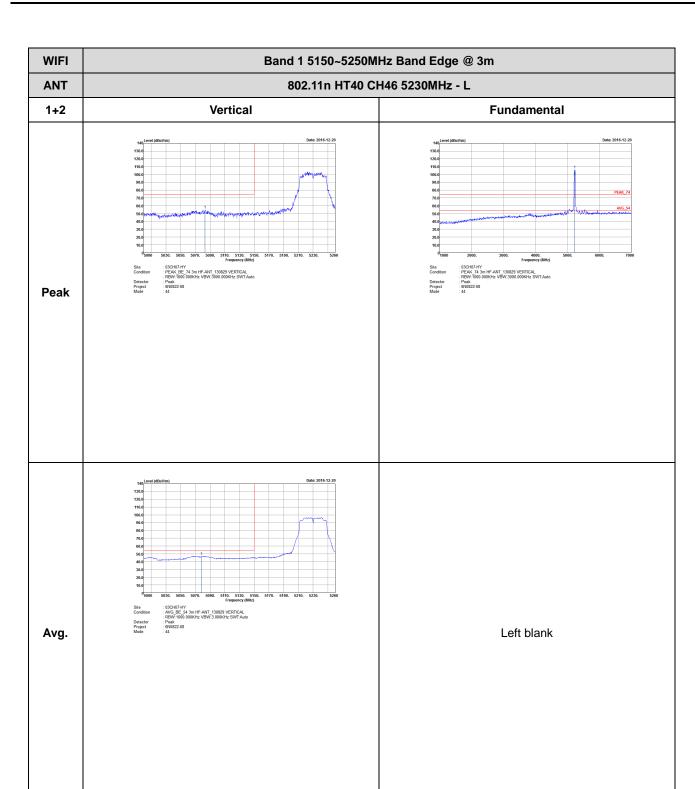


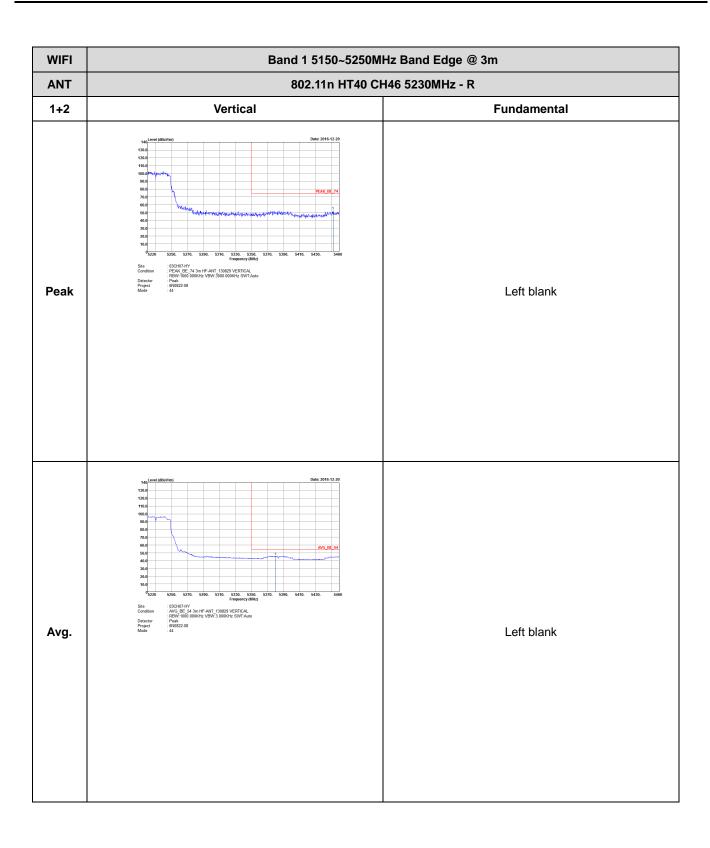






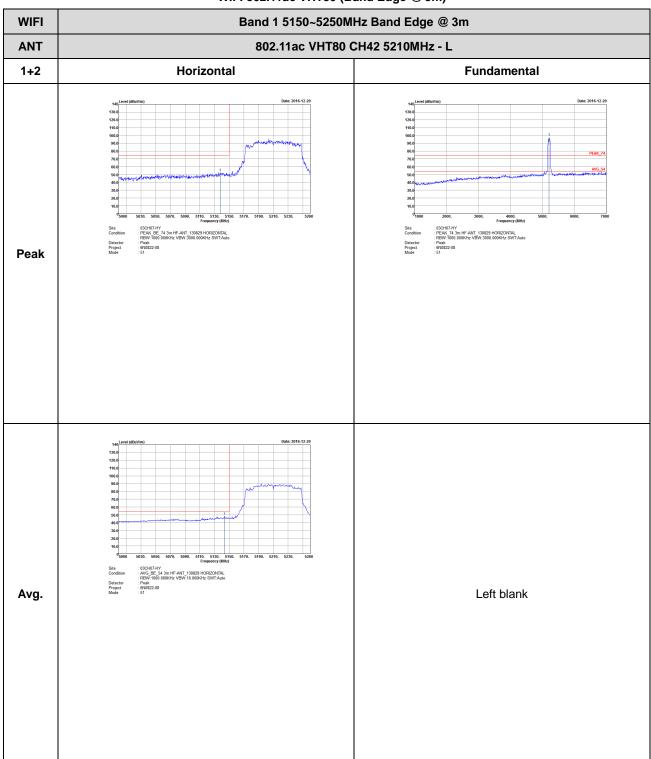
: B3 - 16 of 94





Band 1 5150~5250MHz

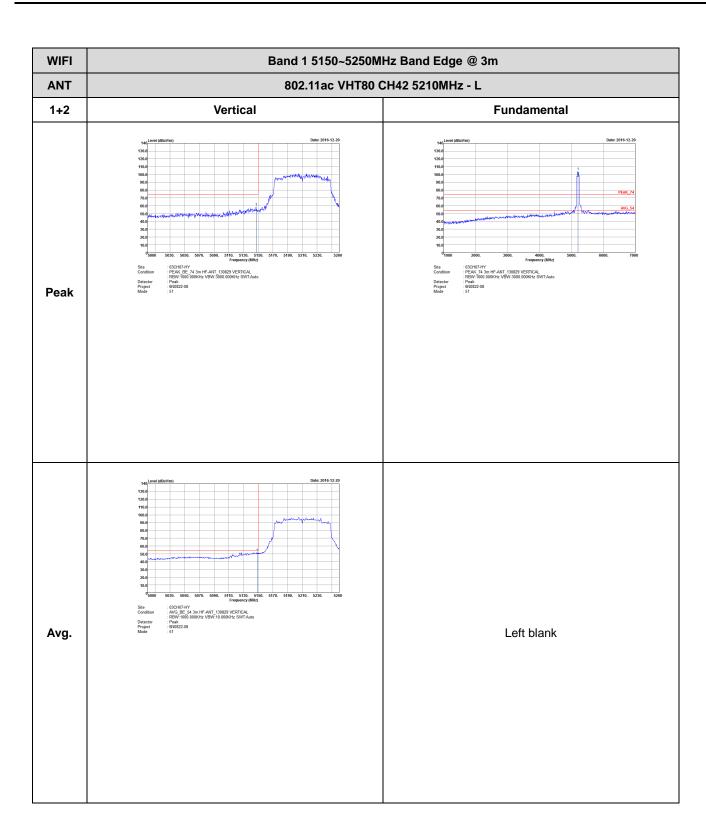
WIFI 802.11ac VHT80 (Band Edge @ 3m)

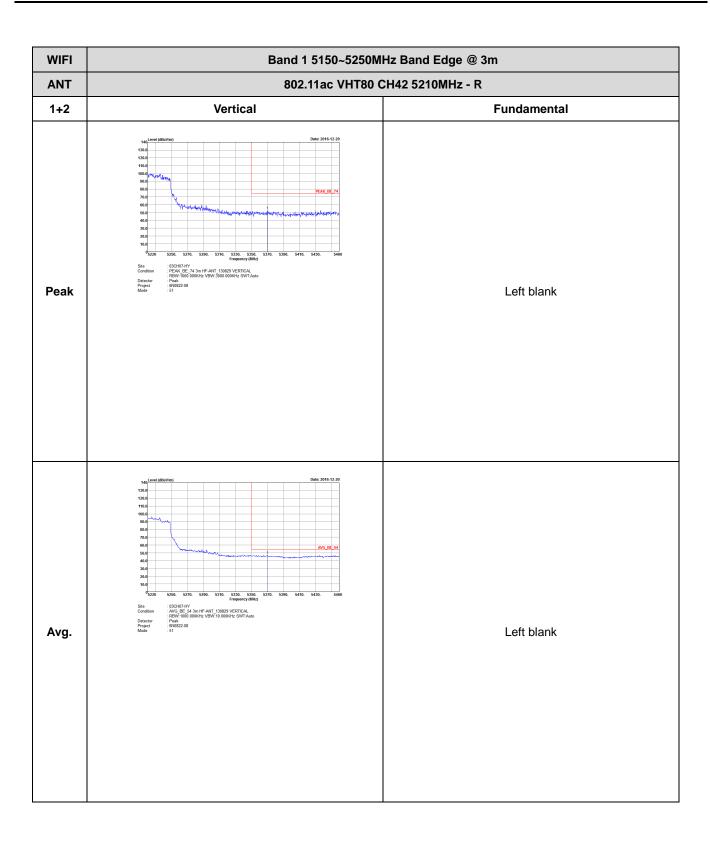


TEL: 886-3-327-3456 FAX: 886-3-328-4978

WIFI Band 1 5150~5250MHz Band Edge @ 3m **ANT** 802.11ac VHT80 CH42 5210MHz - R 1+2 Horizontal **Fundamental** Peak Left blank Left blank Avg.

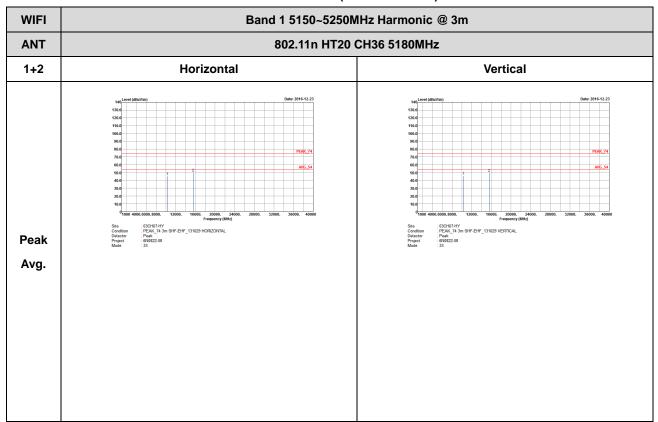
TEL: 886-3-327-3456 FAX: 886-3-328-4978



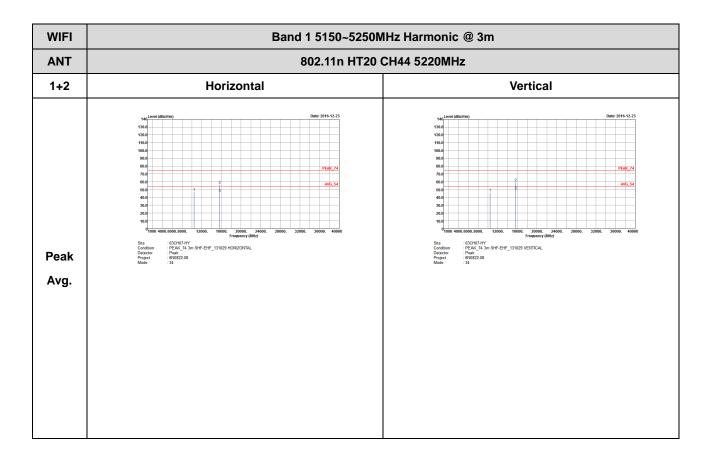


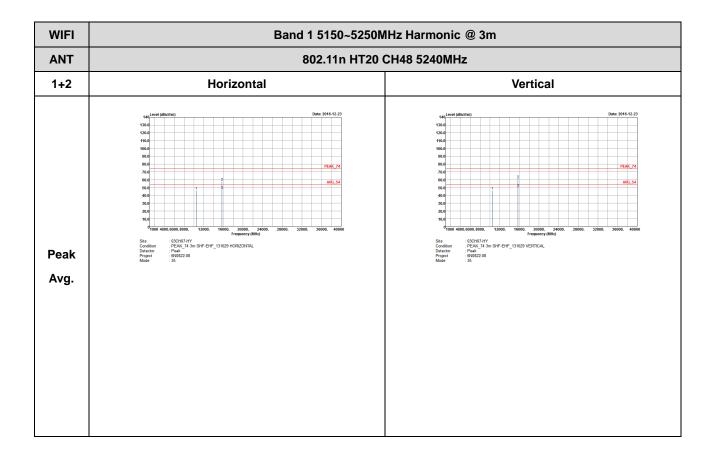
Band 1 - 5150~5250MHz

WIFI 802.11n HT20 (Harmonic @ 3m)



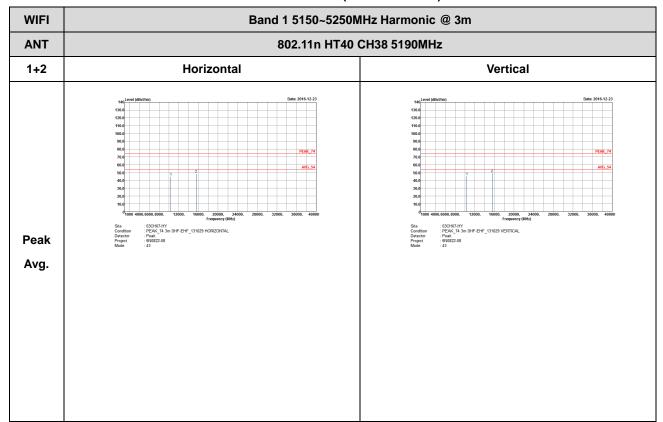
TEL: 886-3-327-3456 FAX: 886-3-328-4978



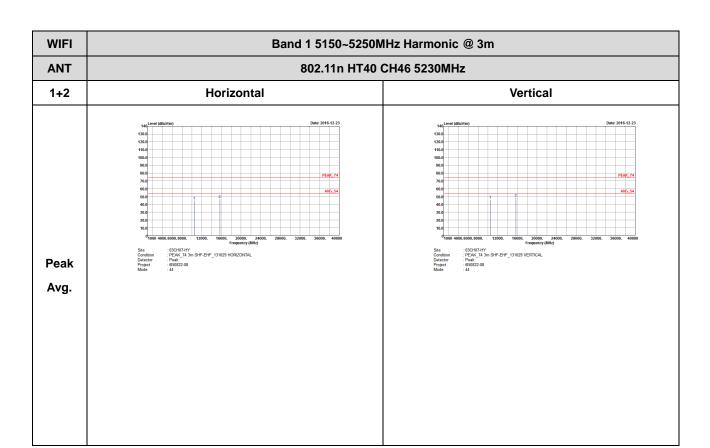


Band 1 5150~5250MHz

WIFI 802.11n HT40 (Harmonic @ 3m)

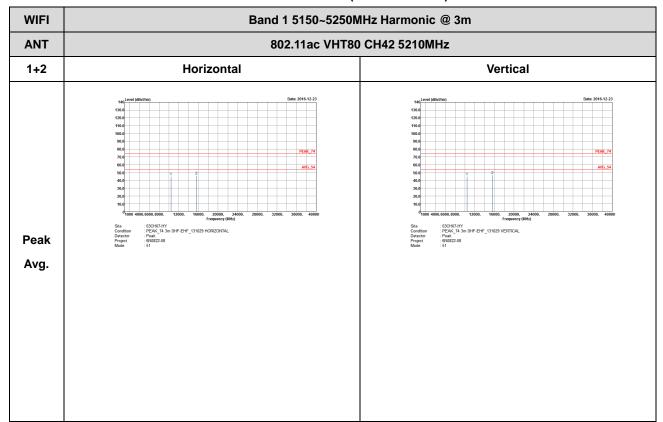


TEL: 886-3-327-3456 FAX: 886-3-328-4978



Band 1 5150~5250MHz

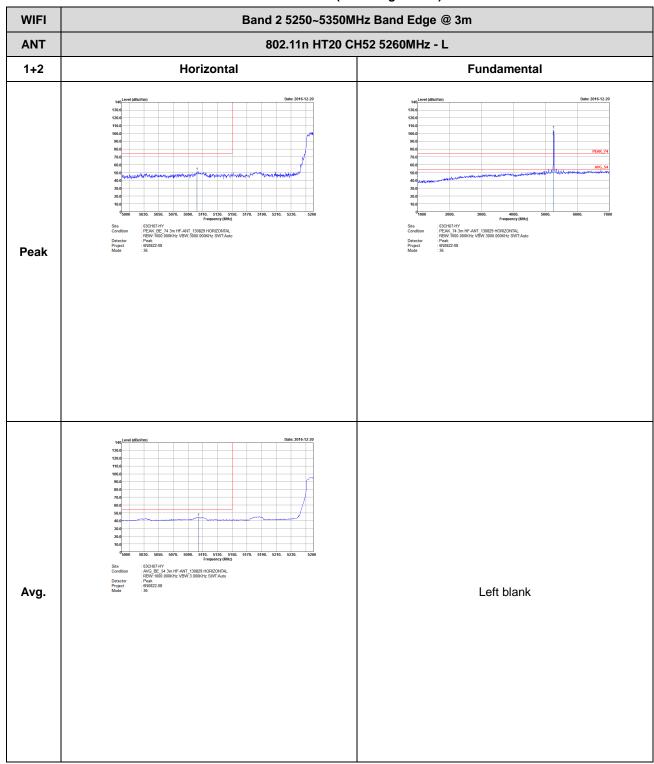
WIFI 802.11ac VHT80 (Harmonic @ 3m)



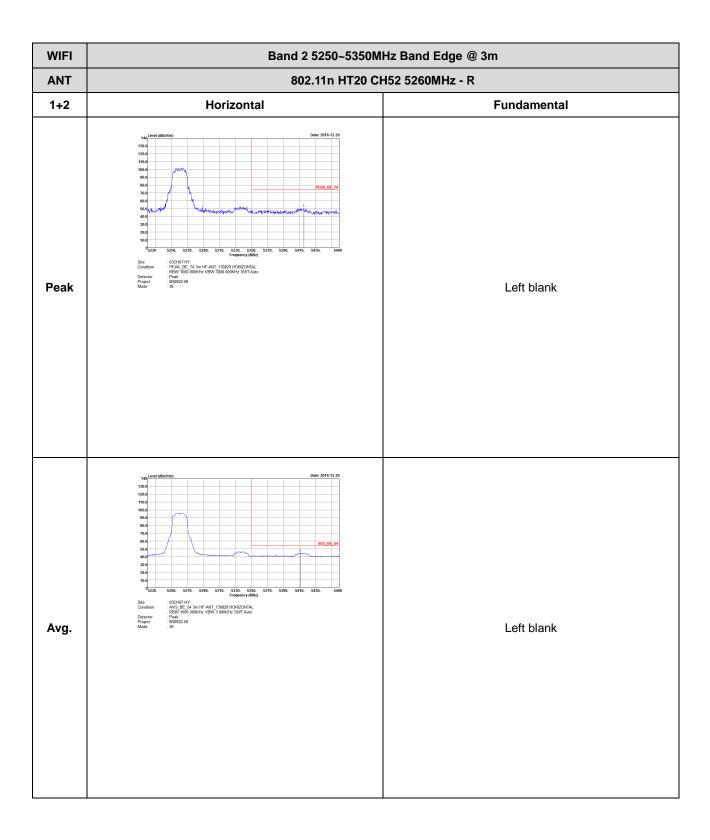
TEL: 886-3-327-3456 FAX: 886-3-328-4978

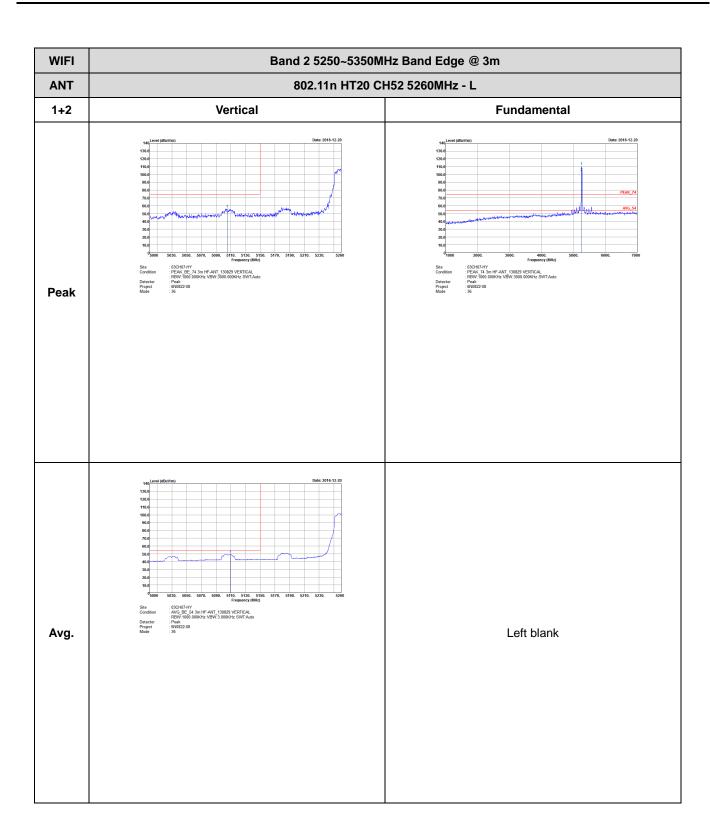
Band 2 - 5250~5350MHz

WIFI 802.11n HT20 (Band Edge @ 3m)



TEL: 886-3-327-3456 FAX: 886-3-328-4978

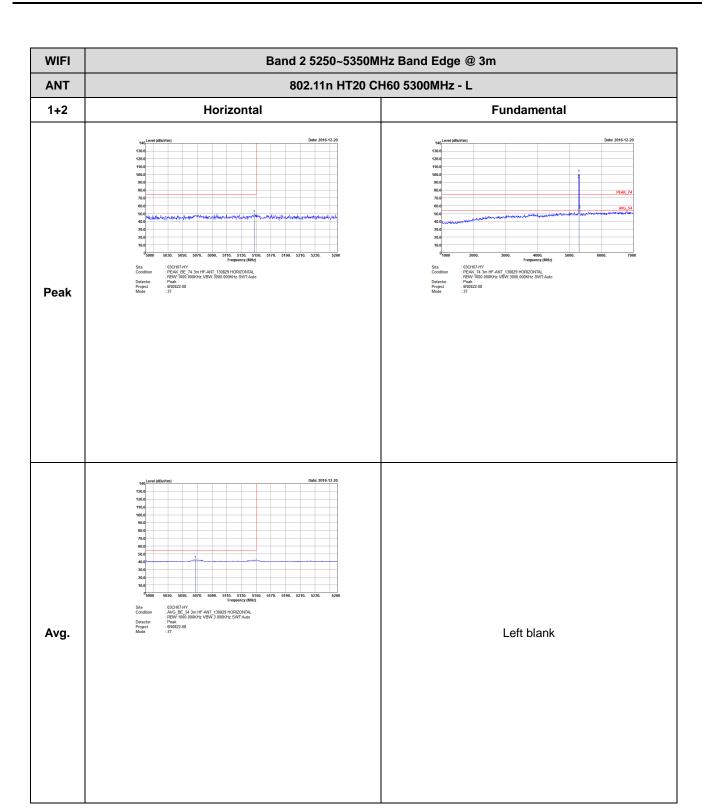


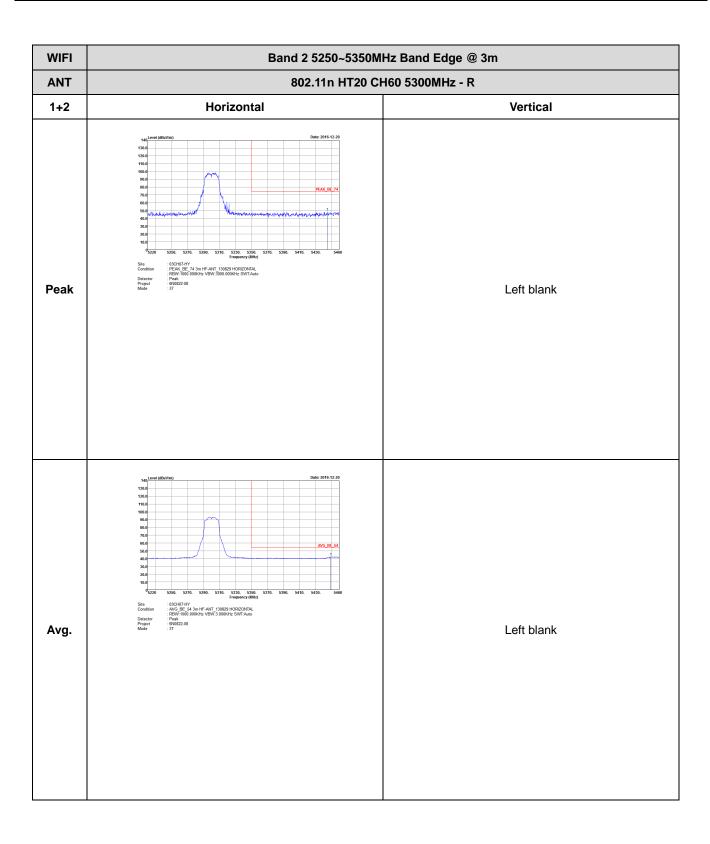


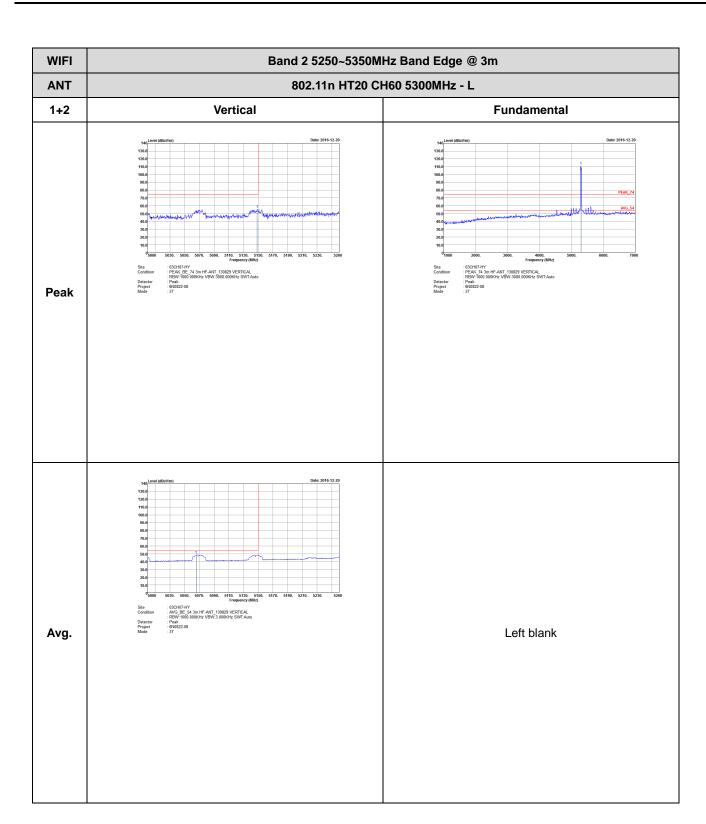
: B3 - 31 of 94

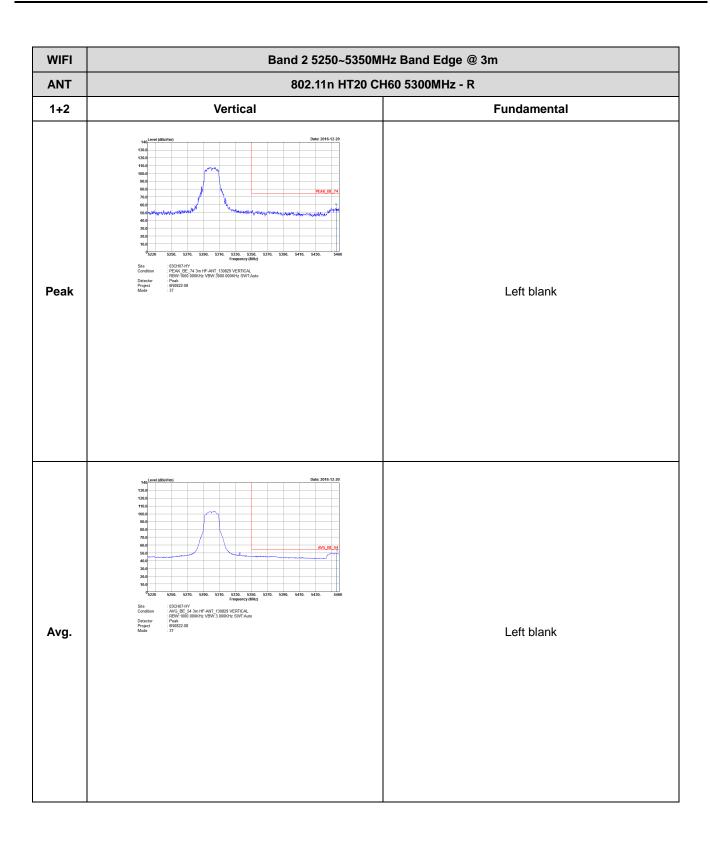
WIFI Band 2 5250~5350MHz Band Edge @ 3m **ANT** 802.11n HT20 CH52 5260MHz - R 1+2 Vertical **Fundamental** : 03CH07-HY : PEAK_BE_74 3m HF-ANT_130829 VERTICAL : RBW:*1000_000KHz VBW:3000_000KHz SWT-Au : Peak : 6N0822-06 : 36 Peak Left blank Left blank Avg.

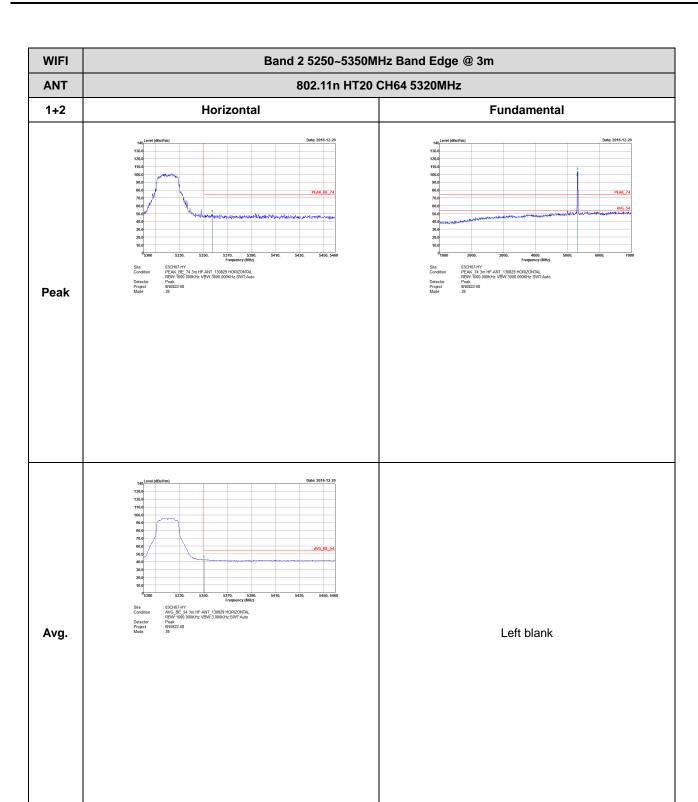
TEL: 886-3-327-3456 FAX: 886-3-328-4978









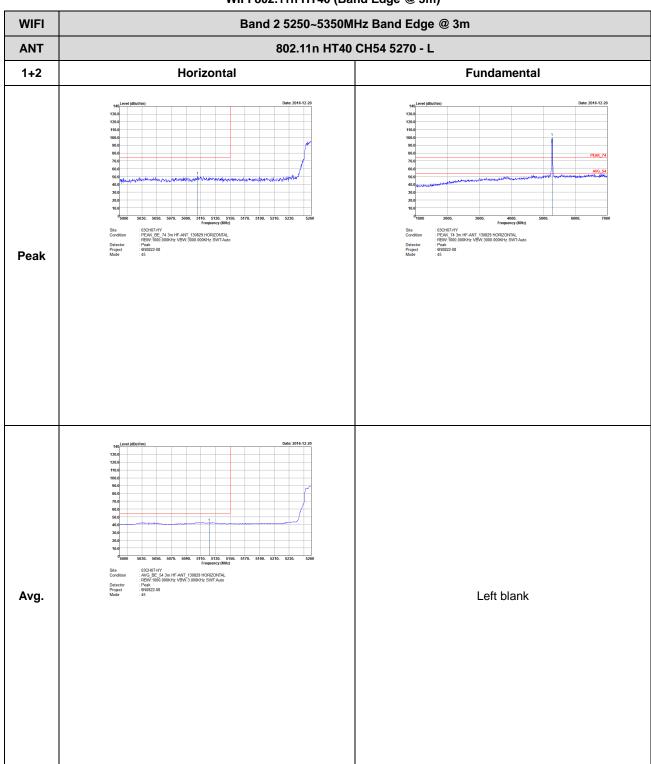


WIFI Band 2 5250~5350MHz Band Edge @ 3m **ANT** 802.11n HT20 CH64 5320MHz 1+2 Vertical **Fundamental** : 03CH07-HY : PEAK_BE_74 3m HF-ANT_130829 VERTICAL : RBW:1000_000KHz VBW:3000_000KHz SWT-Au : Peak : 6N0822-06 : 38 Peak Left blank Avg.

TEL: 886-3-327-3456 FAX: 886-3-328-4978

Band 2 5250~5350MHz

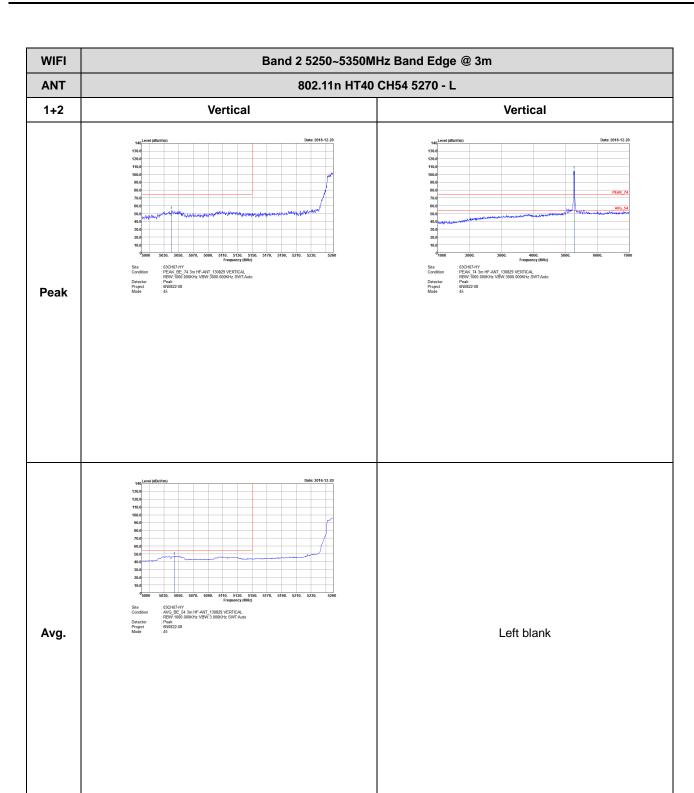
WIFI 802.11n HT40 (Band Edge @ 3m)



TEL: 886-3-327-3456 FAX: 886-3-328-4978

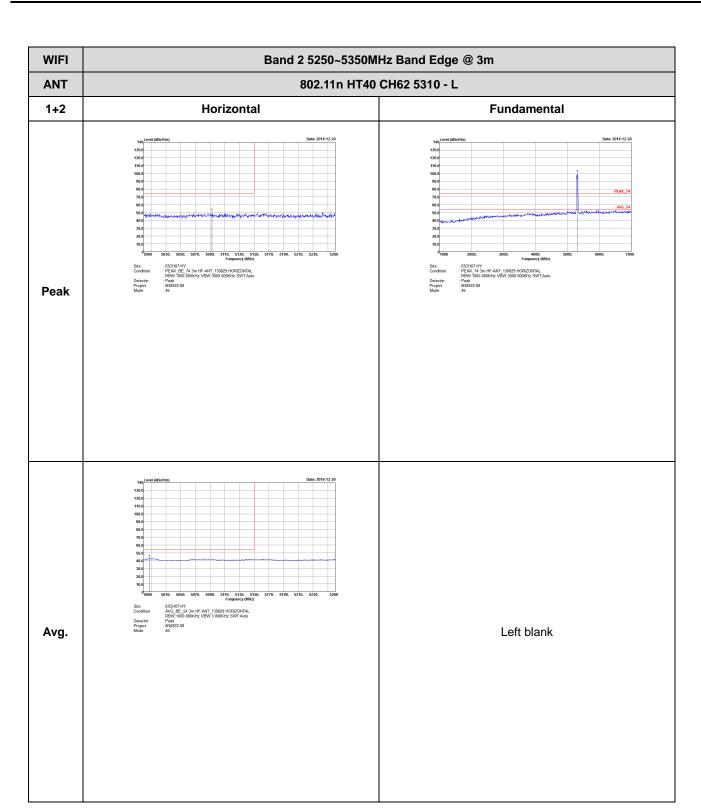
WIFI Band 2 5250~5350MHz Band Edge @ 3m **ANT** 802.11n HT40 CH54 5270 - R 1+2 Horizontal **Fundamental** Peak Left blank Left blank Avg.

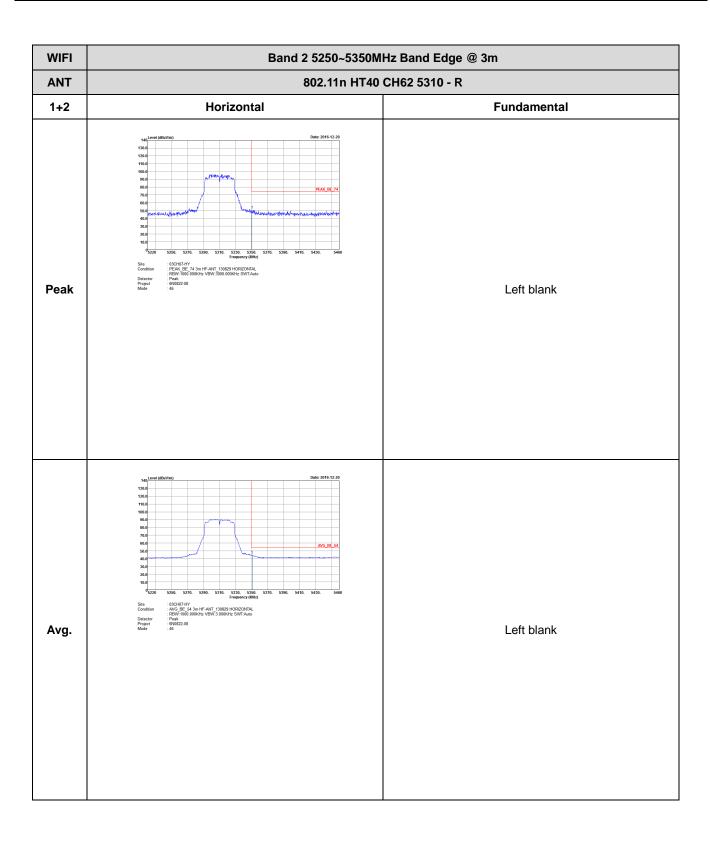
TEL: 886-3-327-3456 FAX: 886-3-328-4978

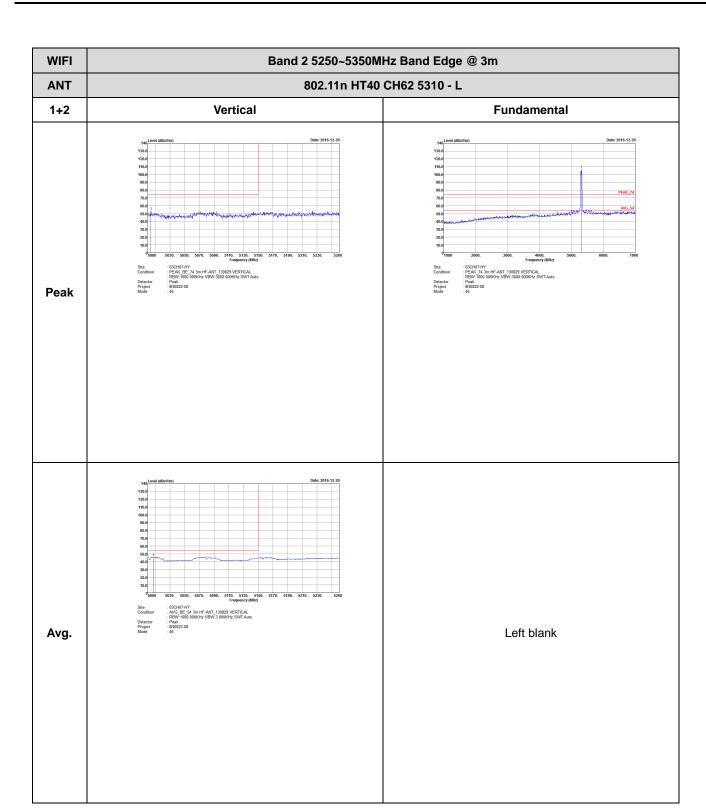


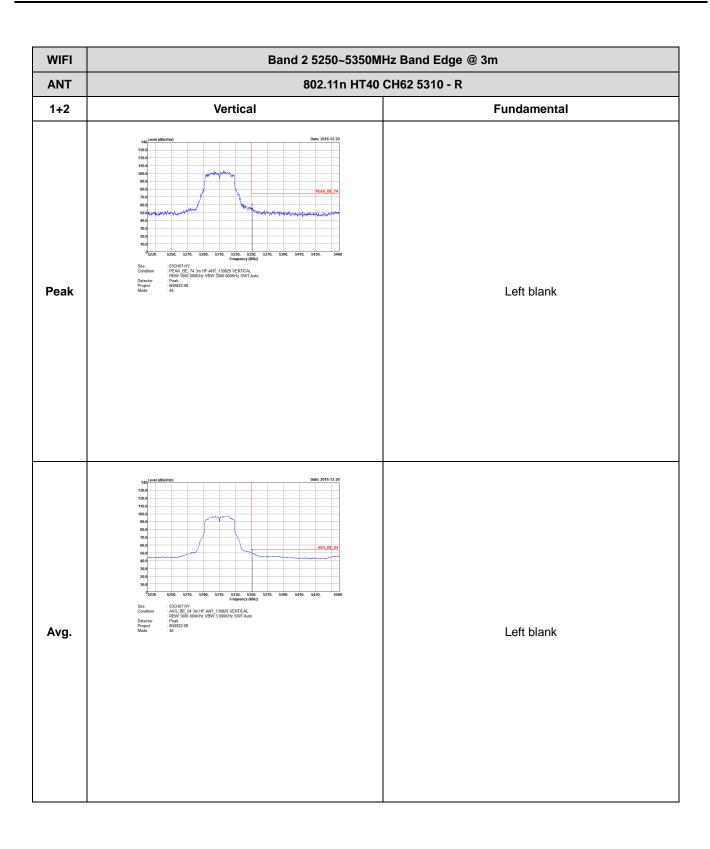
WIFI Band 2 5250~5350MHz Band Edge @ 3m **ANT** 802.11n HT40 CH54 5270 - R 1+2 Vertical Vertical : 03CH07-HY : PEAK_BE_74 3m HF-ANT_130829 VERTICAL : RBW-1000.000KHz VBW:3000.000KHz SWT-Auto : Peak : 8NM822-08 Peak Left blank Left blank Avg.

TEL: 886-3-327-3456 FAX: 886-3-328-4978



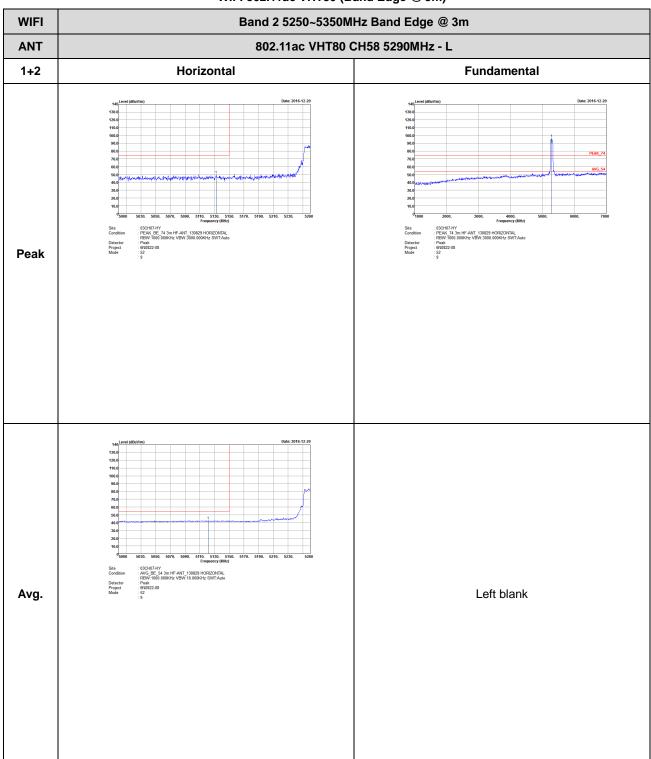




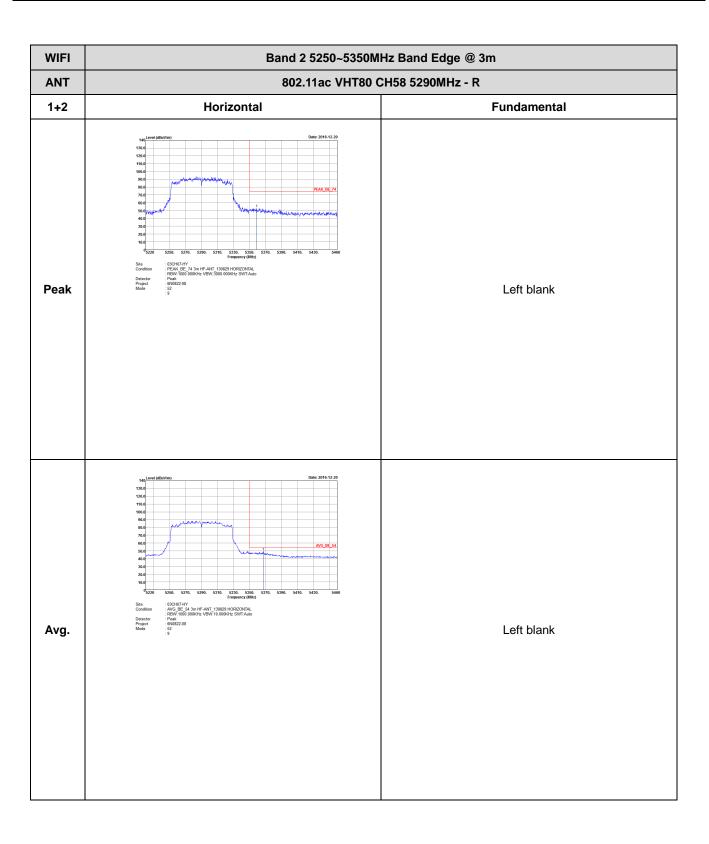


Band 2 5250~5350MHz

WIFI 802.11ac VHT80 (Band Edge @ 3m)

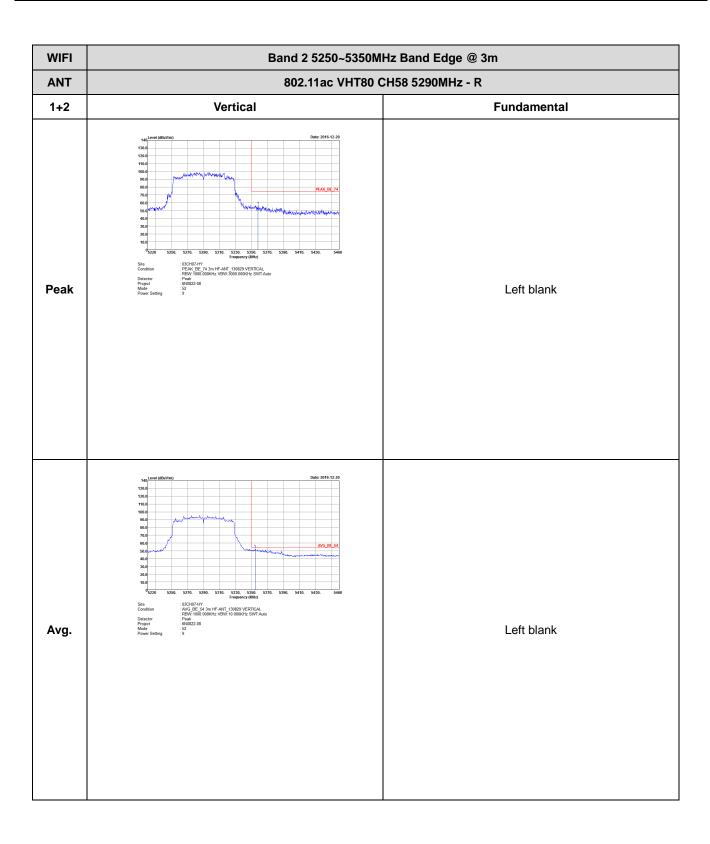


TEL: 886-3-327-3456 FAX: 886-3-328-4978



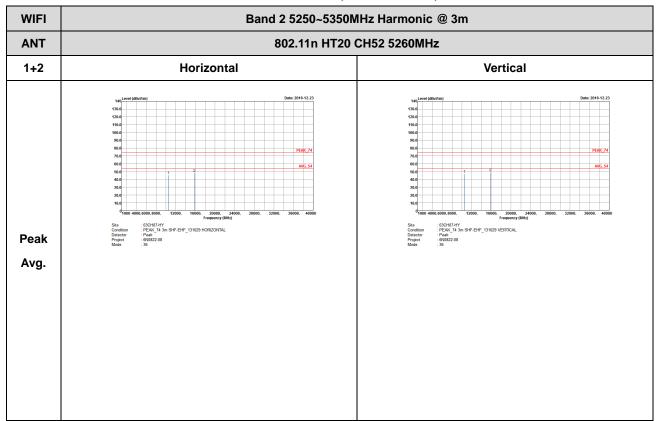
WIFI Band 2 5250~5350MHz Band Edge @ 3m **ANT** 802.11ac VHT80 CH58 5290MHz - L 1+2 Vertical **Fundamental** : 03CH07-HY
: PEAK_BE_74 3m HF-ANT_130829 VERTICAL
: RBW-1000 000KHz VBW-3000 000KHz SWT-A
: 6N0822-08
: 52
: 59 Peak Left blank Avg.

TEL: 886-3-327-3456 FAX: 886-3-328-4978

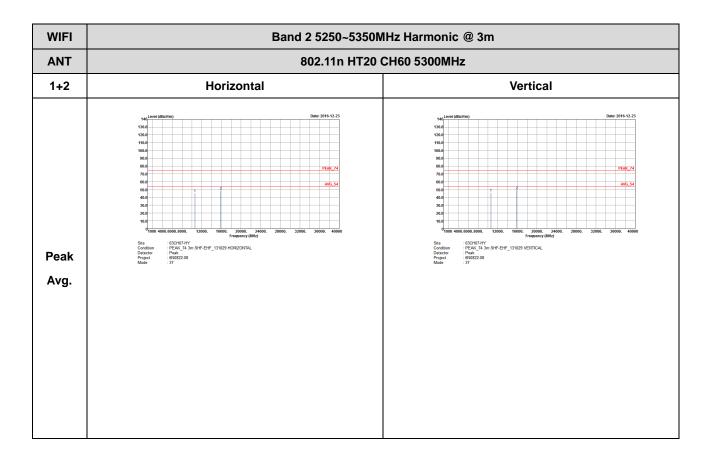


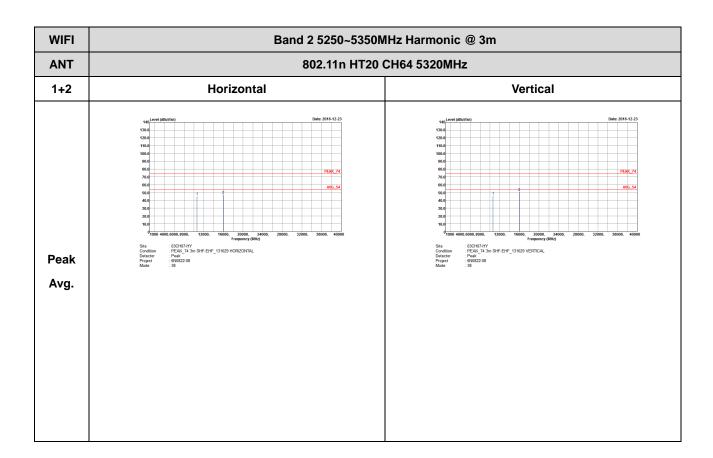
Band 2 - 5250~5350MHz

WIFI 802.11n HT20 (Harmonic @ 3m)



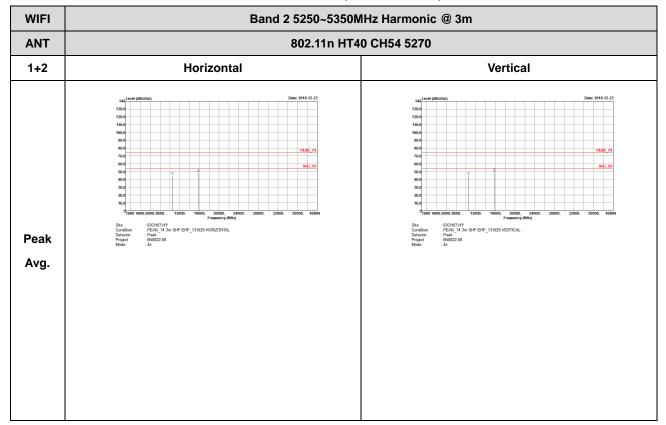
TEL: 886-3-327-3456 FAX: 886-3-328-4978



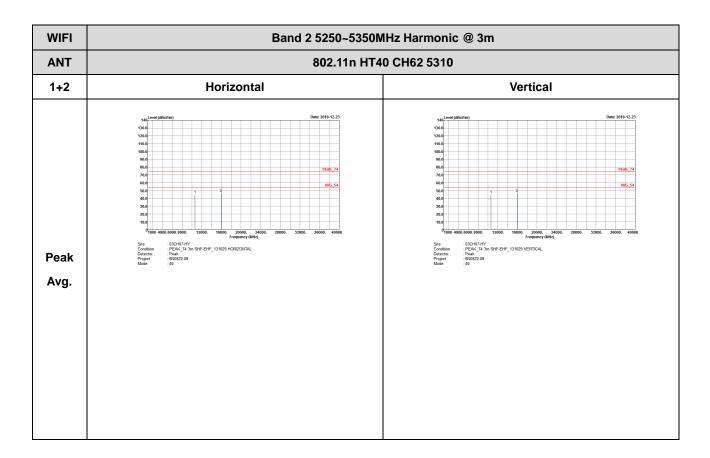


Band 2 5250~5350MHz

WIFI 802.11n HT40 (Harmonic @ 3m)

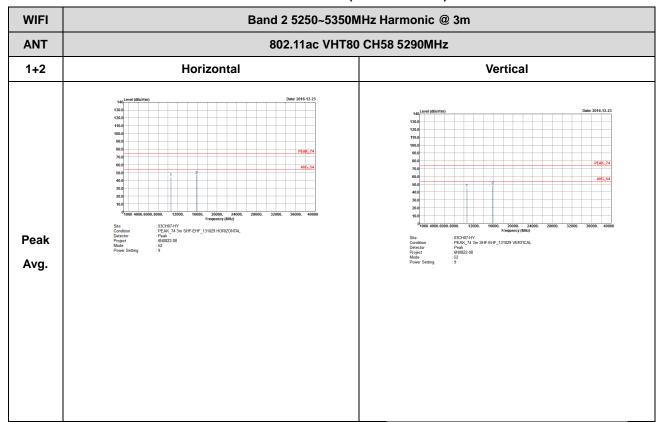


TEL: 886-3-327-3456 FAX: 886-3-328-4978



Band 2 5250~5350MHz

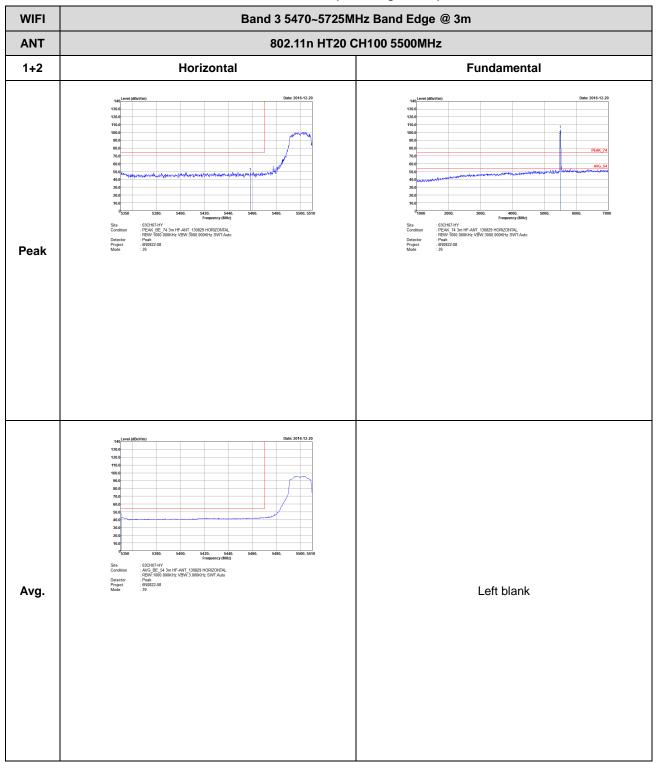
WIFI 802.11ac VHT80 (Harmonic @ 3m)



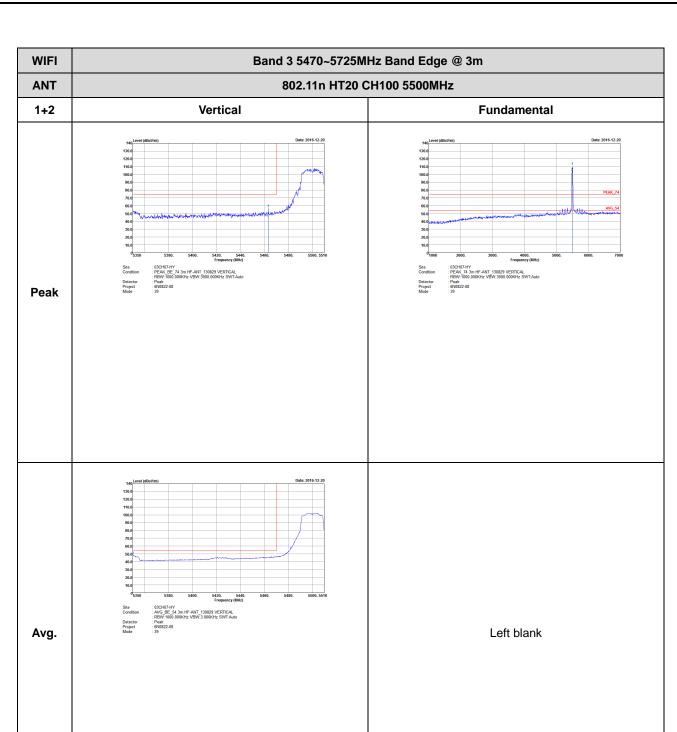
TEL: 886-3-327-3456 FAX: 886-3-328-4978

Band 3 - 5470~5725MHz

WIFI 802.11n HT20 (Band Edge @ 3m)



TEL: 886-3-327-3456 FAX: 886-3-328-4978

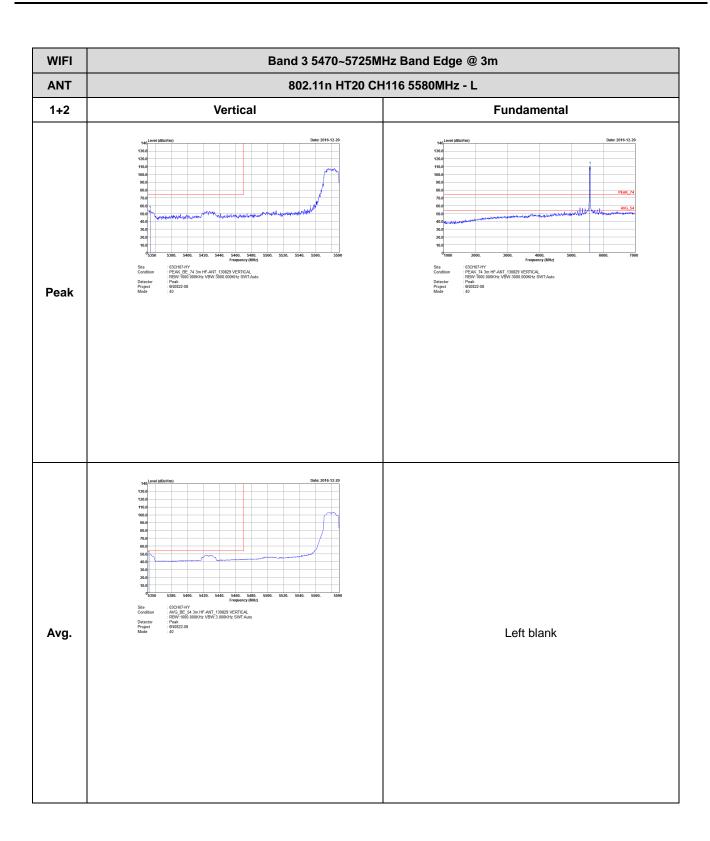


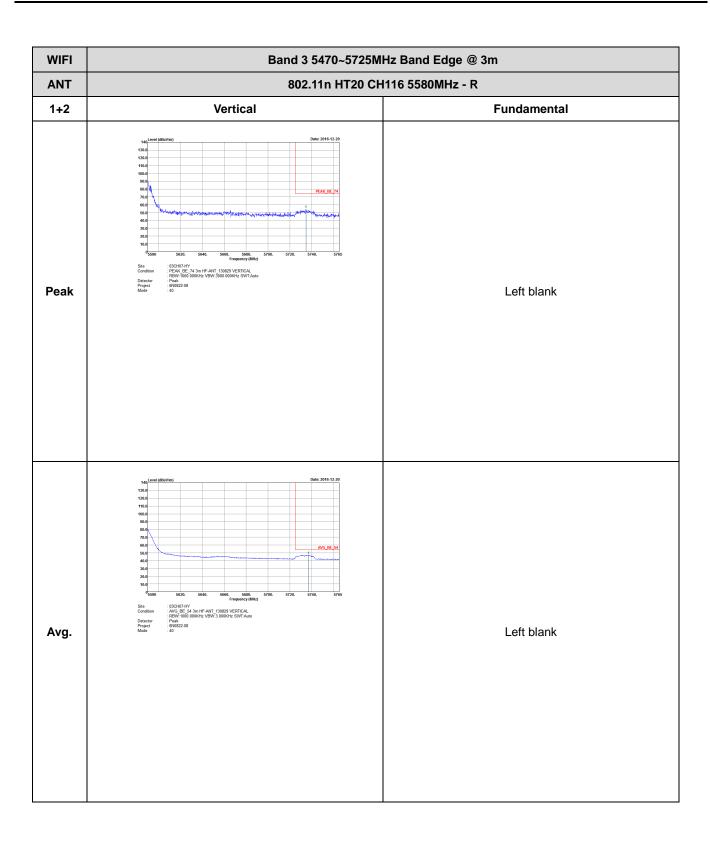
WIFI Band 3 5470~5725MHz Band Edge @ 3m **ANT** 802.11n HT20 CH116 5580MHz - L 1+2 **Fundamental** Horizontal Peak Left blank Avg.

TEL: 886-3-327-3456 FAX: 886-3-328-4978

WIFI Band 3 5470~5725MHz Band Edge @ 3m **ANT** 802.11n HT20 CH116 5580MHz - R 1+2 Horizontal **Fundamental** : 03CH07-HY : PEAK, BE, 74 3m HF-ANT 130829 HORIZONTAL : RBW-1000.000KHz VBW-3000.000KHz SWT-Auto : Paak : 6N0822-08 Peak Left blank Left blank Avg.

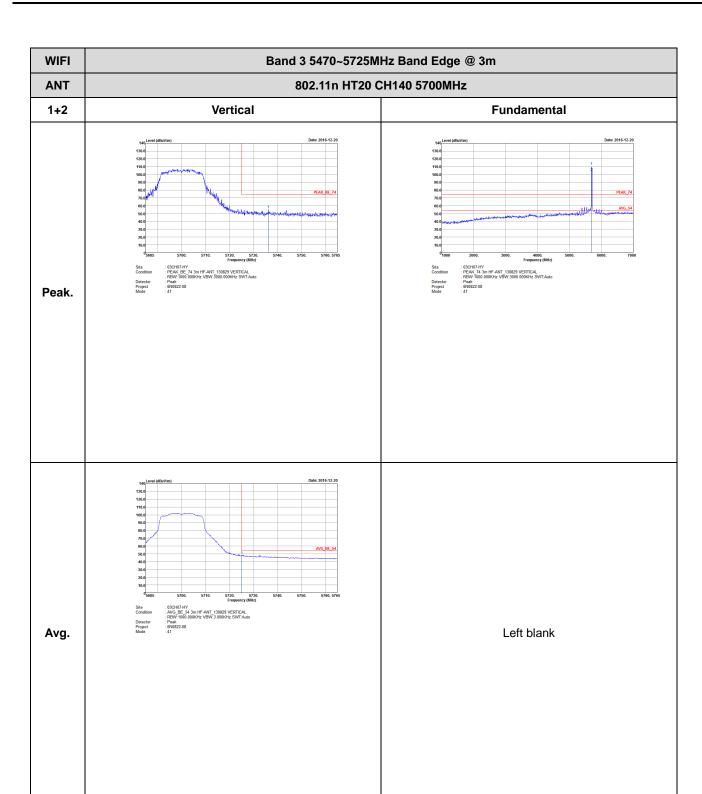
TEL: 886-3-327-3456 FAX: 886-3-328-4978





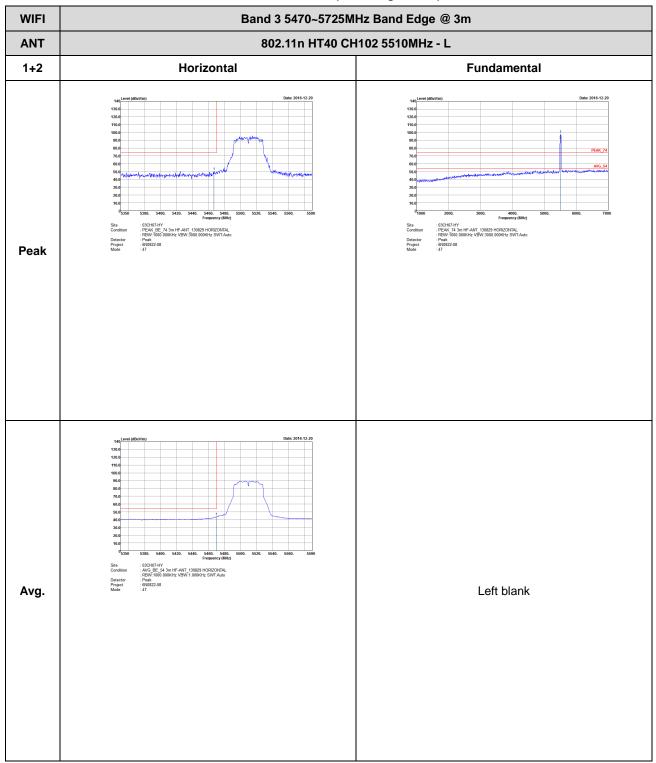
WIFI Band 3 5470~5725MHz Band Edge @ 3m **ANT** 802.11n HT20 CH140 5700MHz 1+2 Horizontal **Fundamental** : 03CH07-HY : PEAK, BE, 74 3m HF-ANT 130829 HORIZONTAL : RBW-1000.000KHz VBW-3000.000KHz SWT-Auto : Paak : 6N0822-08 Peak Left blank Avg.

TEL: 886-3-327-3456 FAX: 886-3-328-4978

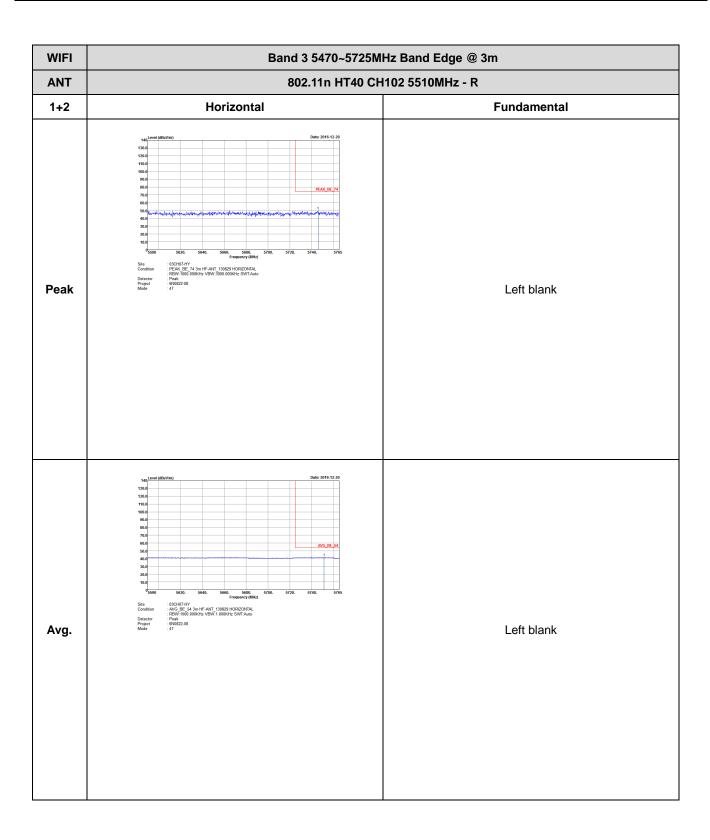


Band 3 5470~5725MHz

WIFI 802.11n HT40 (Band Edge @ 3m)



TEL: 886-3-327-3456 FAX: 886-3-328-4978

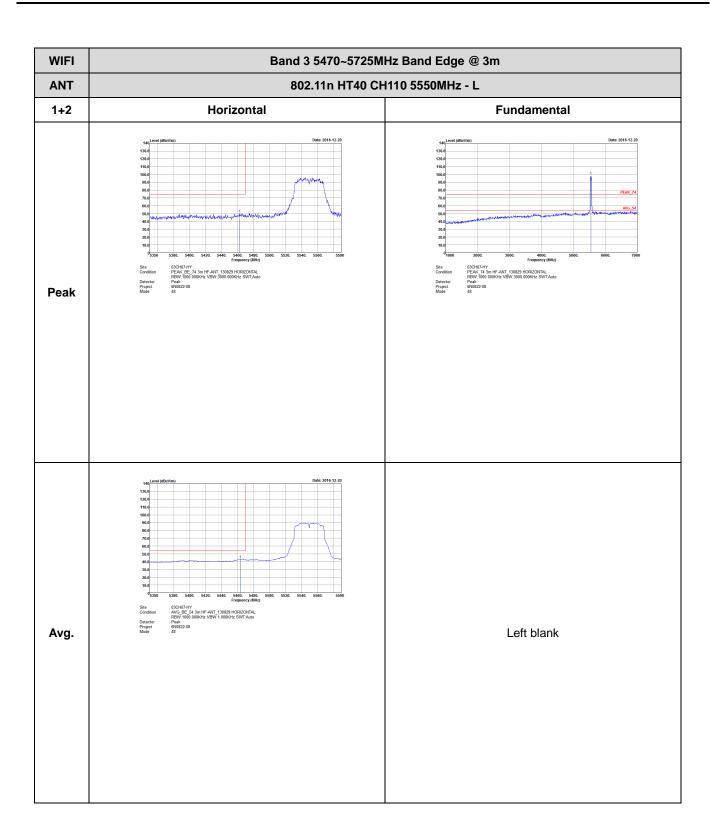


WIFI Band 3 5470~5725MHz Band Edge @ 3m **ANT** 802.11n HT40 CH102 5510MHz - L 1+2 Vertical **Fundamental** : 03CH07:HY : PEAK_BE_74 3m HF-ANT_130829 VERTICAL : RBW-1000.000KHz VBW:3000.000KHz SWT:Auto : Poak : 6N0822-08 Peak Left blank Avg.

TEL: 886-3-327-3456 FAX: 886-3-328-4978

WIFI Band 3 5470~5725MHz Band Edge @ 3m **ANT** 802.11n HT40 CH102 5510MHz - R 1+2 Vertical **Fundamental** : 03CH07-HY : PEAK_BE_74 3m HF-ANT_130829 VERTICAL : RBW:1000_000KHz VBW:3000_000KHz SWT-Au : Peak : 6N0822-09 : 47 Peak Left blank Left blank Avg.

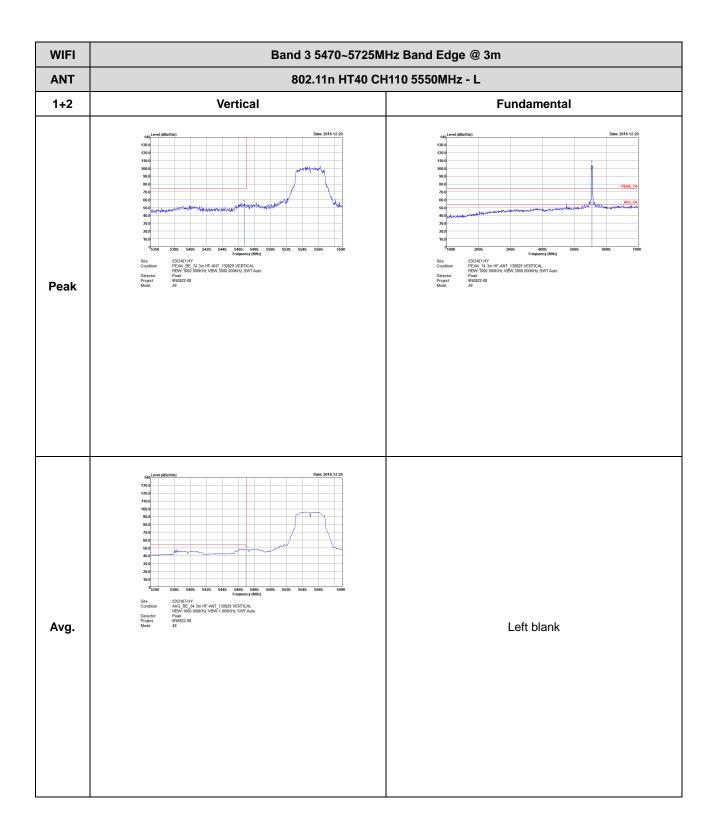
TEL: 886-3-327-3456 FAX: 886-3-328-4978

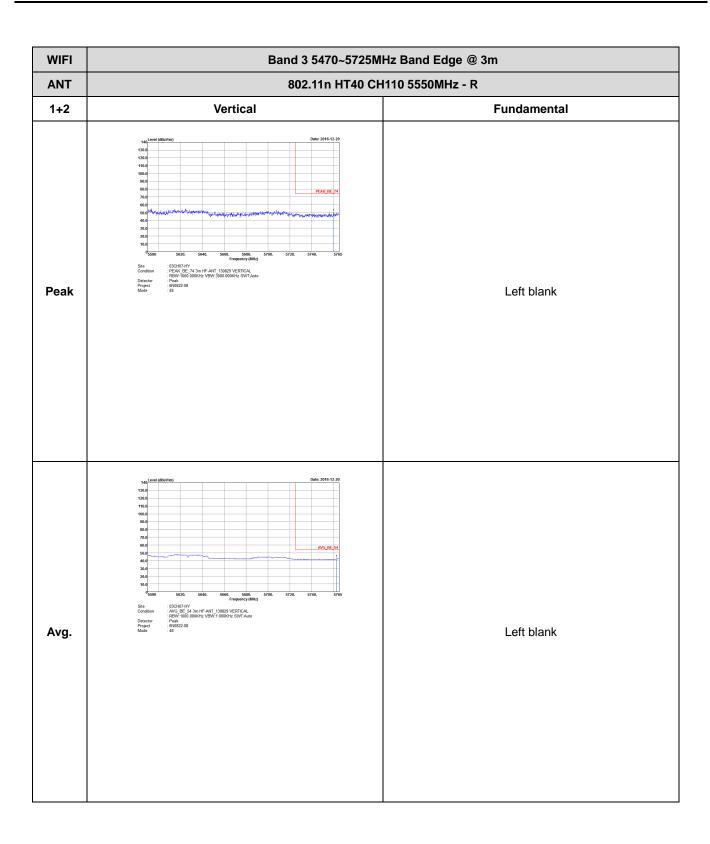


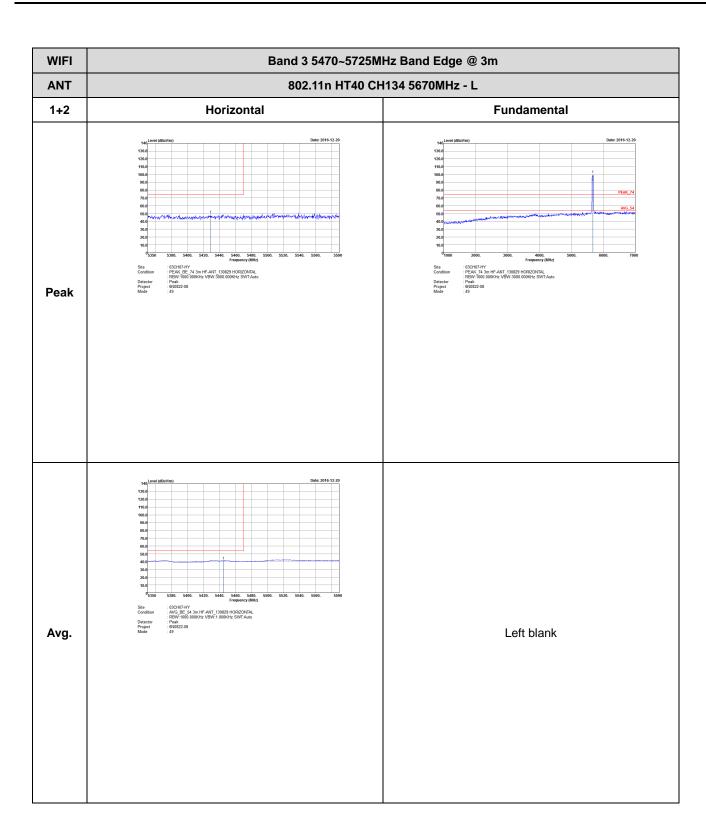
WIFI Band 3 5470~5725MHz Band Edge @ 3m **ANT** 802.11n HT40 CH110 5550MHz - R 1+2 Horizontal **Fundamental** : 03CH07-HY : PEAK, BE, 74 3m HF-ANT 130829 HORIZONTAL : RBW-1000.000KHz VBW-3000.000KHz SWT-Auto : Paak : 6N0822-08 : 48 Peak Left blank Left blank Avg.

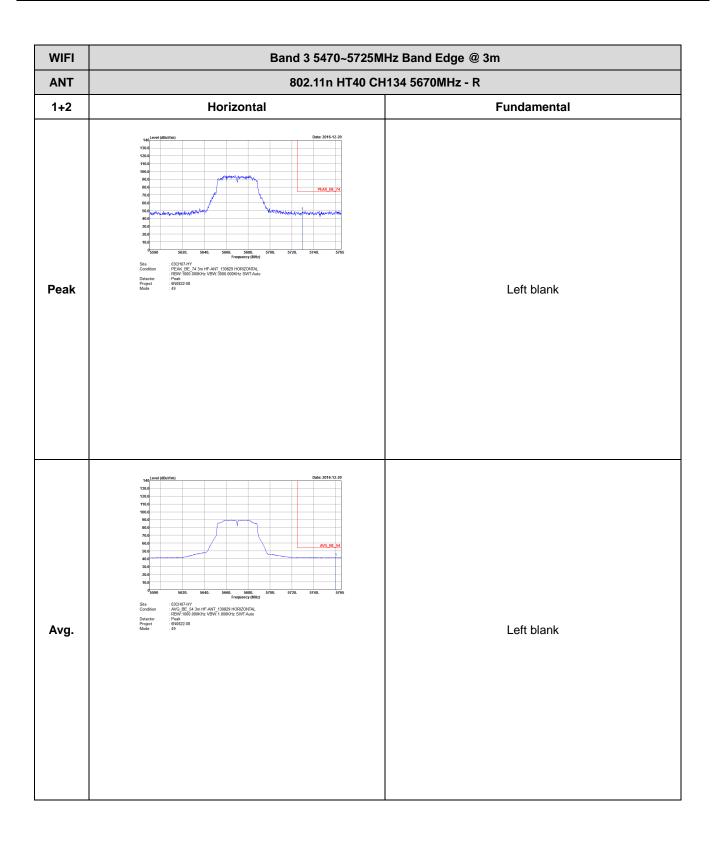
TEL: 886-3-327-3456 FAX: 886-3-328-4978

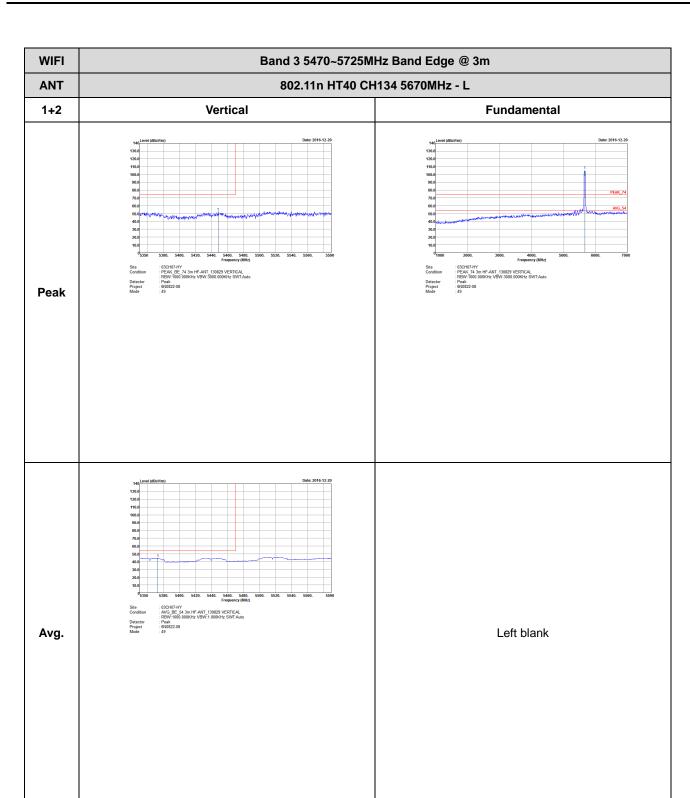










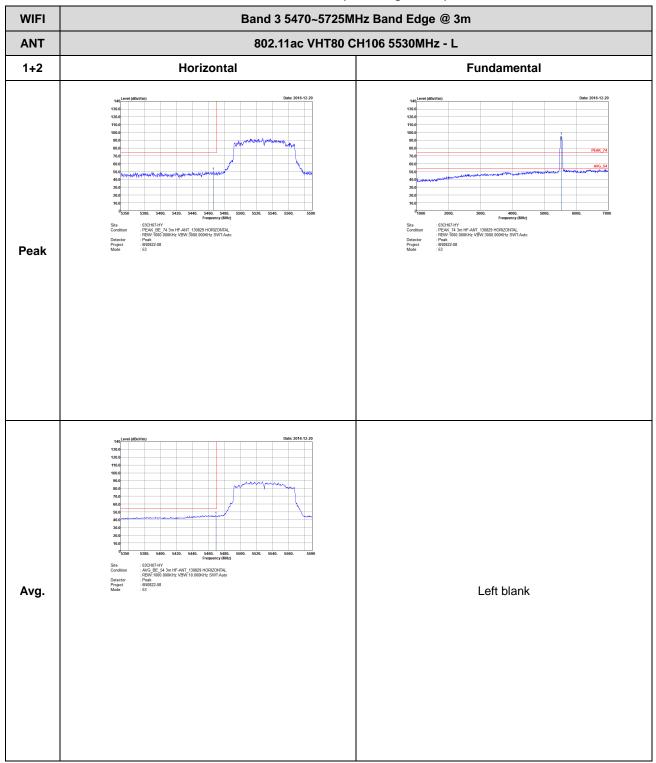


WIFI Band 3 5470~5725MHz Band Edge @ 3m **ANT** 802.11n HT40 CH134 5670MHz - R 1+2 Vertical **Fundamental** : 03CH07:HY : PEAK_BE_74 3m HF-ANT_130829 VERTICAL : RBW-1000.000KHz VBW:3000.000KHz SWT:Auto : Paak : 6N0822-08 Peak Left blank Left blank Avg.

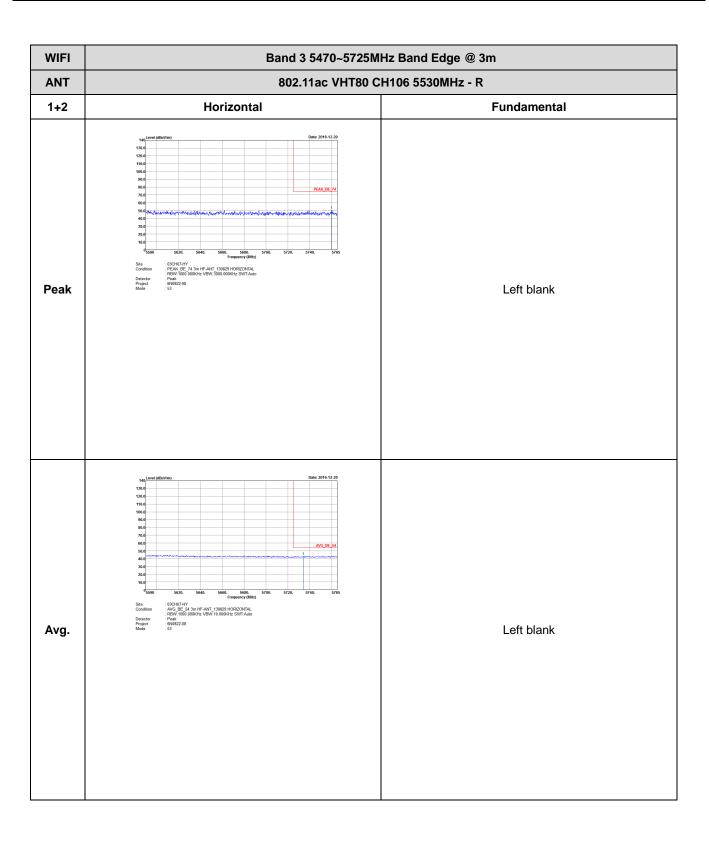
TEL: 886-3-327-3456 FAX: 886-3-328-4978

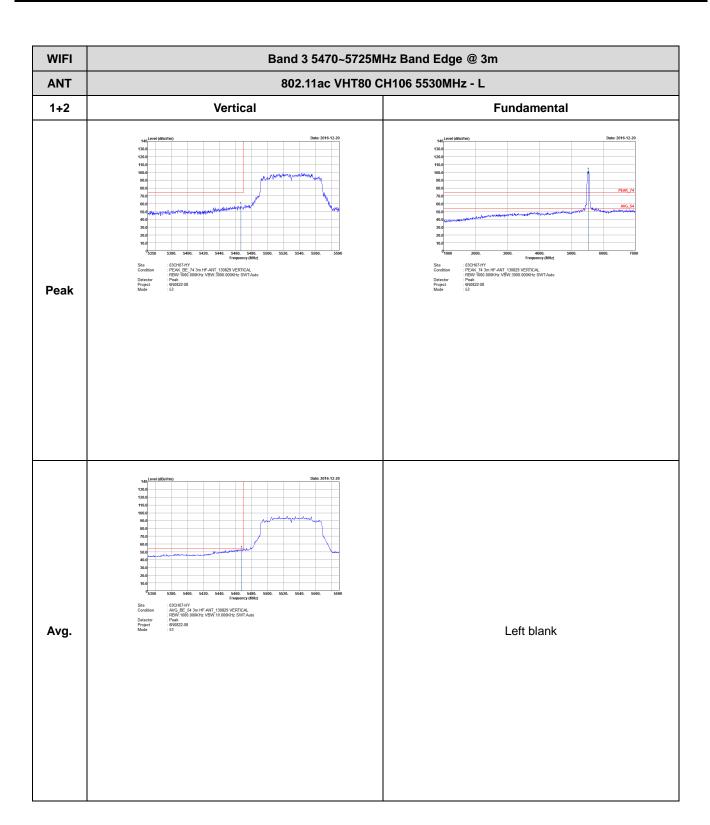
Band 3 5470~5725MHz

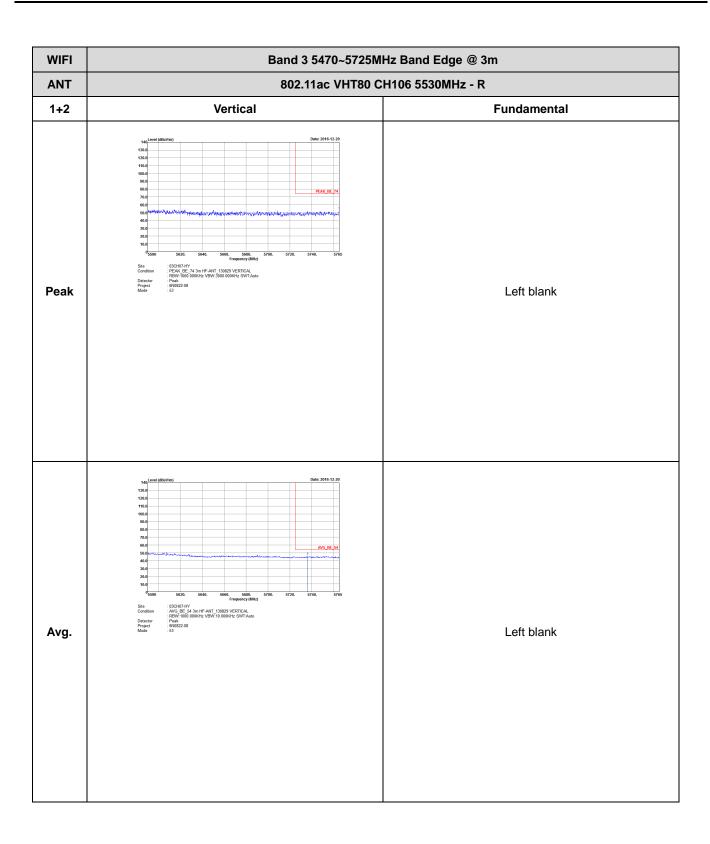
WIFI 802.11ac VHT80 (Band Edge @ 3m)



TEL: 886-3-327-3456 FAX: 886-3-328-4978

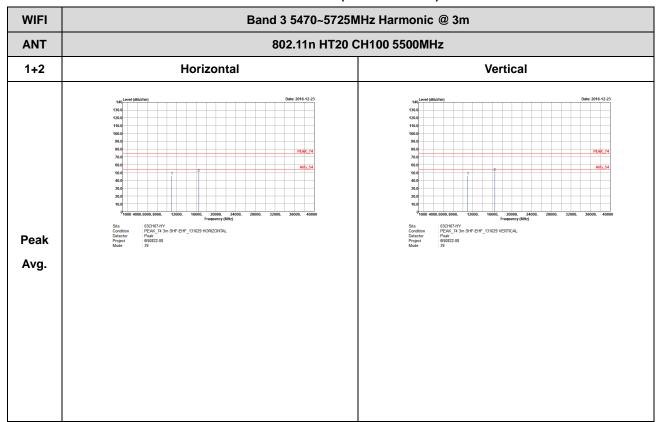




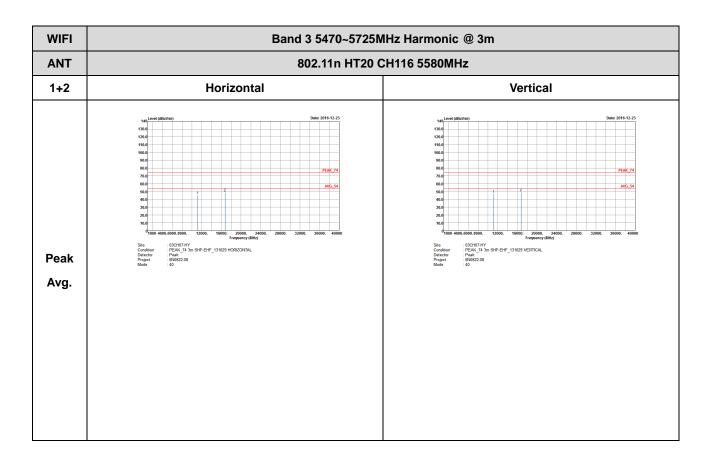


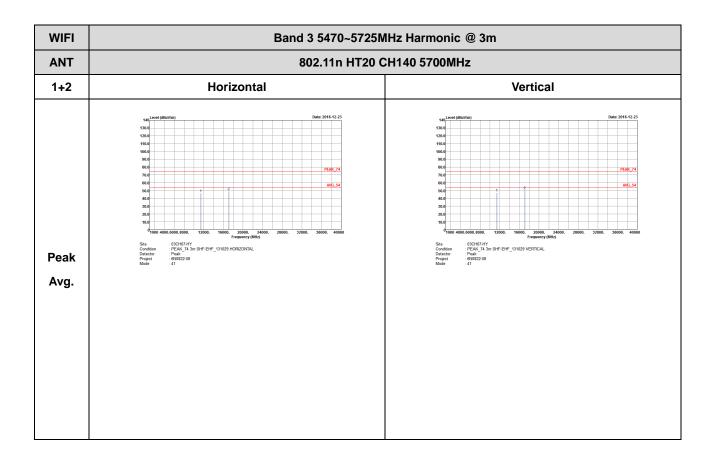
Band 3 - 5470~5725MHz

WIFI 802.11n HT20 (Harmonic @ 3m)



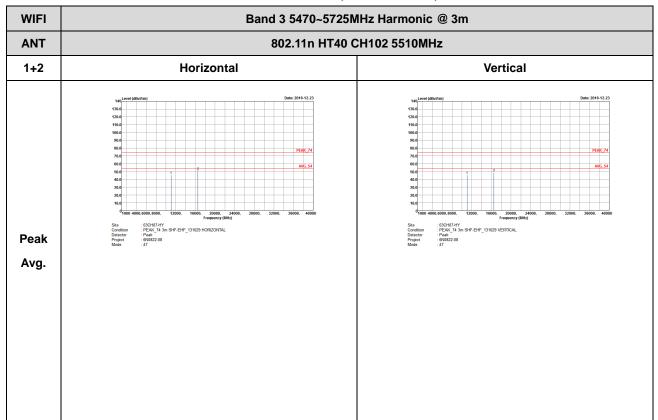
TEL: 886-3-327-3456 FAX: 886-3-328-4978





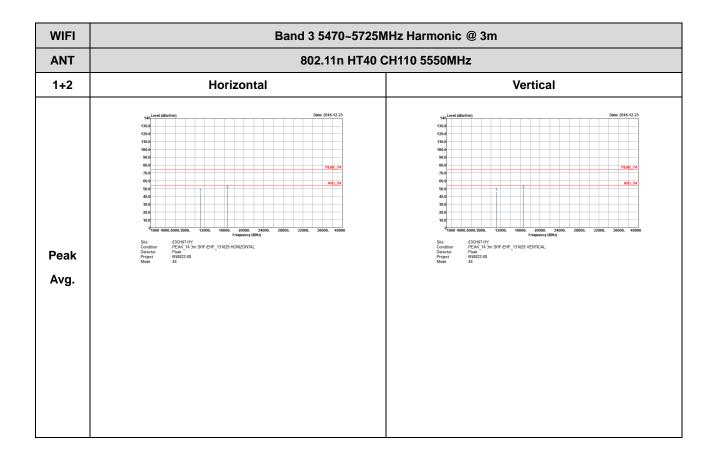
Band 3 5470~5725MHz

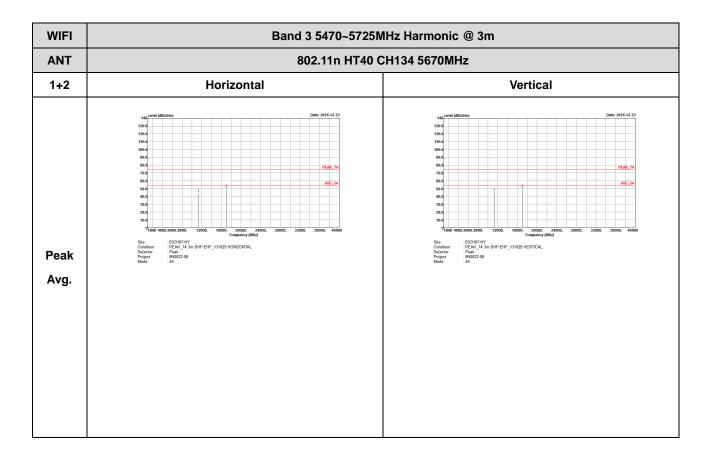
WIFI 802.11n HT40 (Harmonic @ 3m)



TEL: 886-3-327-3456 FAX: 886-3-328-4978

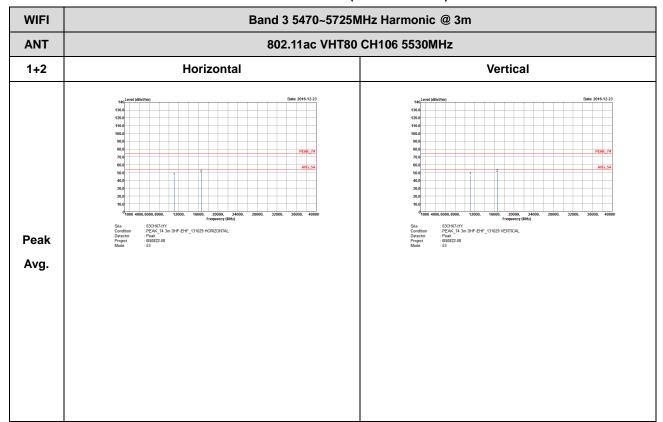






Band 3 5470~5725MHz

WIFI 802.11ac VHT80 (Harmonic @ 3m)

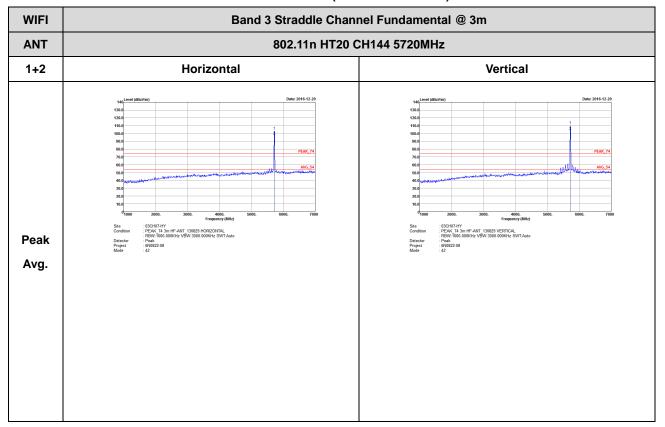


TEL: 886-3-327-3456 FAX: 886-3-328-4978

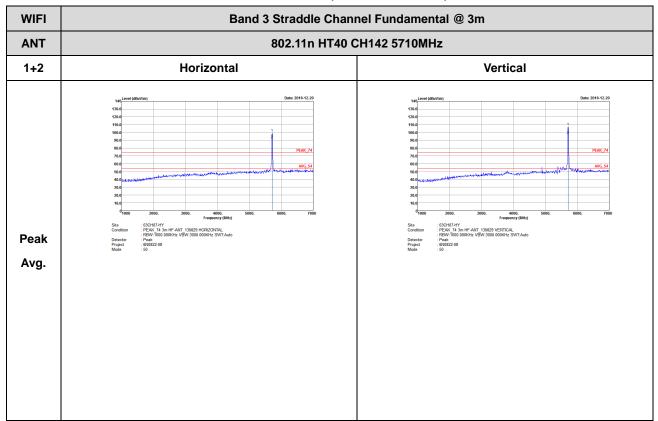
CC RF Test Report No.: FR6N0822-08D

Band 3 - Straddle Channel

WIFI 802.11n HT20 (Fundamental @ 3m)

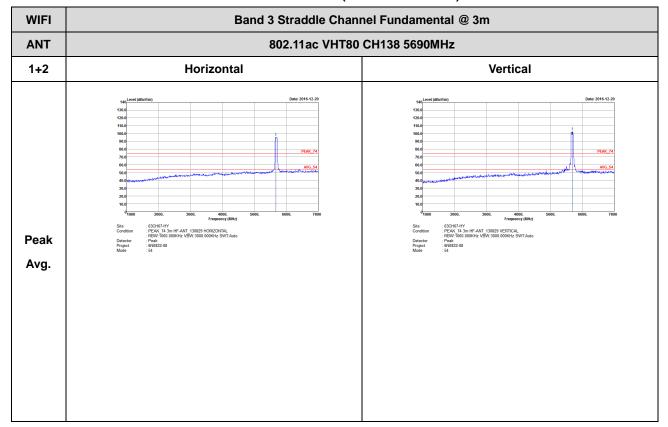


WIFI 802.11n HT40 (Fundamental @ 3m)



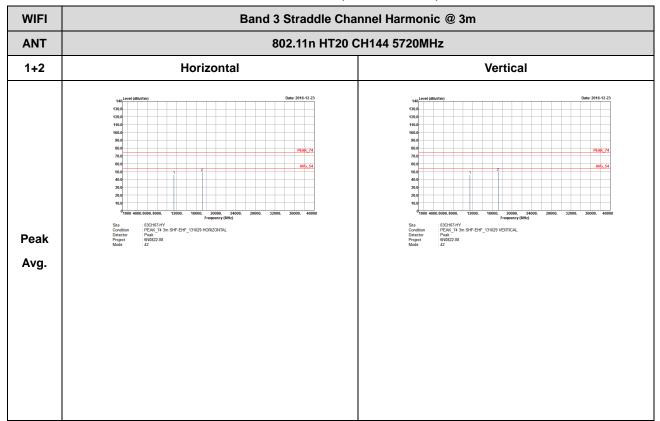
TEL: 886-3-327-3456 FAX: 886-3-328-4978

WIFI 802.11ac VHT80 (Fundamental @ 3m)



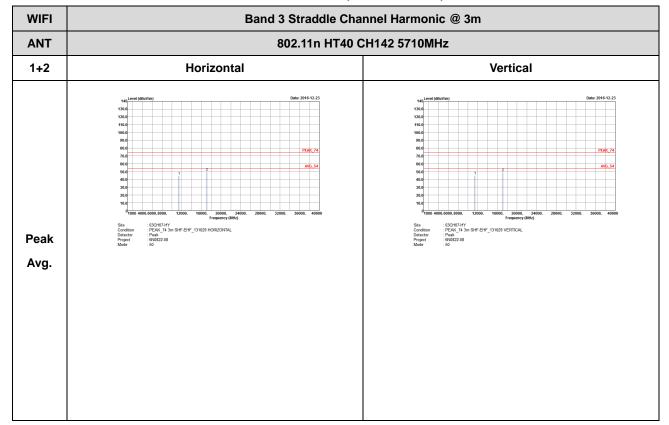
TEL: 886-3-327-3456 FAX: 886-3-328-4978

WIFI 802.11n HT20 (Harmonic @ 3m)



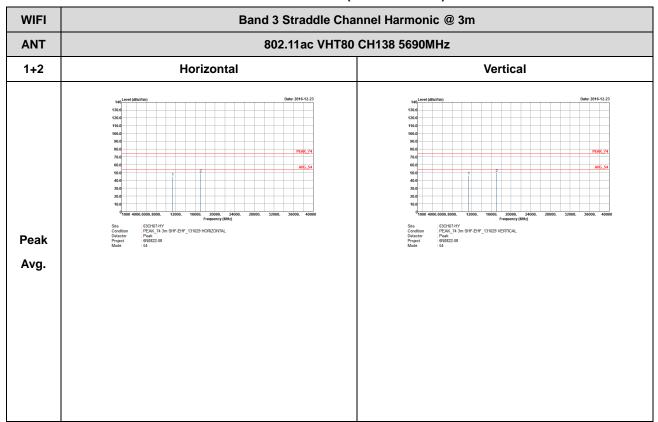
TEL: 886-3-327-3456 FAX: 886-3-328-4978

WIFI 802.11n HT40 (Harmonic @ 3m)



TEL: 886-3-327-3456 FAX: 886-3-328-4978

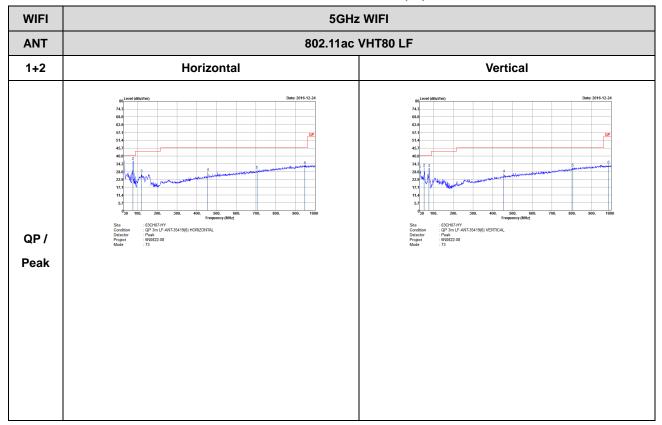
WIFI 802.11ac VHT80 (Harmonic @ 3m)



TEL: 886-3-327-3456 FAX: 886-3-328-4978

Emission below 1GHz

5GHz WIFI 802.11ac VHT80 (LF)



TEL: 886-3-327-3456 FAX: 886-3-328-4978



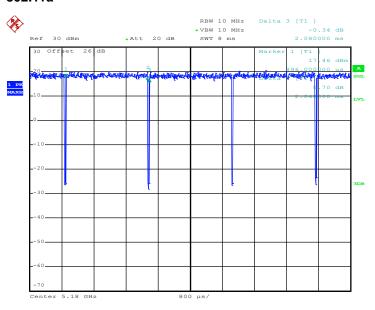
Appendix C. Duty Cycle Plots

Antenna	Band	Duty Cycle(%)	T(us)	1/T(kHz)	VBW Setting
1	802.11a	98.46	ı	-	10Hz
1	5GHz 802.11n HT20	97.95	1915.00	0.52	1kHz
1	5GHz 802.11n HT40	96.91	940.00	1.06	3kHz
1	5GHz 802.11n VHT80	93.83	456.00	2.19	3kHz
2	802.11a	98.09	-	-	10Hz
2	5GHz 802.11n HT20	98.21	-	-	10Hz
2	5GHz 802.11n HT40	95.88	930.00	1.08	3kHz
2	5GHz 802.11n VHT80	92.68	456.00	2.19	3kHz
1+2	5GHz 802.11n HT20 for Ant 1	96.08	980.00	1.02	3kHz
1+2	5GHz 802.11n HT40 for Ant 1	93.10	486.00	2.06	3kHz
1+2	5GHz 802.11n VHT80 for Ant 1	87.67	256.00	3.90	10kHz
1+2	5GHz 802.11n HT20 for Ant 2	95.12	975.00	1.03	3kHz
1+2	5GHz 802.11n HT40 for Ant 2	92.05	486.00	2.06	3kHz
1+2	5GHz 802.11n VHT80 for Ant 2	86.30	252.00	3.97	10kHz

TEL: 886-3-327-3456 FAX: 886-3-328-4978

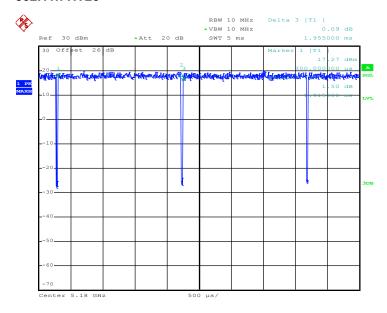


<Ant. 1> 802.11a



Date: 7.DEC.2016 01:17:28

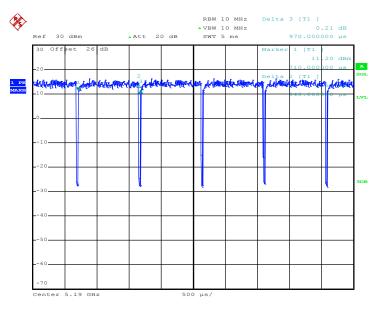
802.11n HT20



Date: 7.DEC.2016 01:22:19

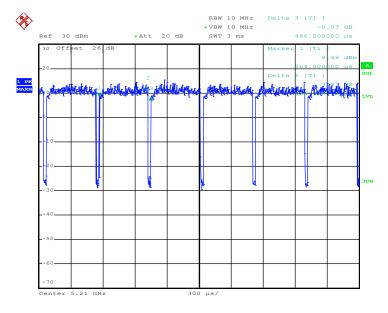






Date: 7.DEC.2016 01:31:31

802.11ac VHT80



Date: 7.DEC.2016 01:45:27

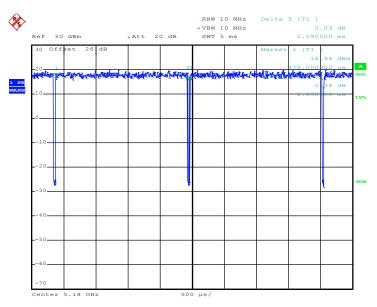
TEL: 886-3-327-3456 FAX: 886-3-328-4978

Page Number

: C3 of C9

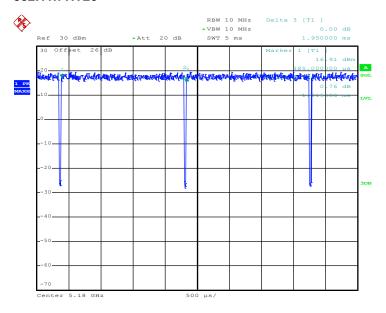


<Ant. 2> 802.11a



Date: 7.DEC.2016 01:19:05

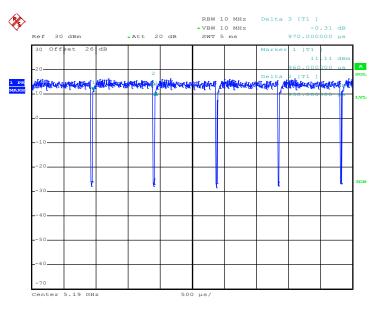
802.11n HT20



Date: 7.DEC.2016 01:24:24

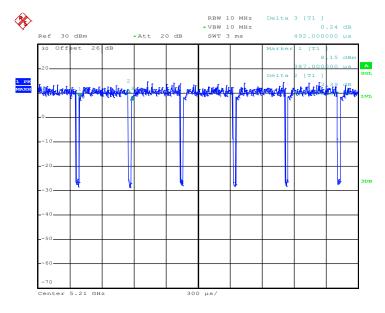






Date: 7.DEC.2016 01:32:35

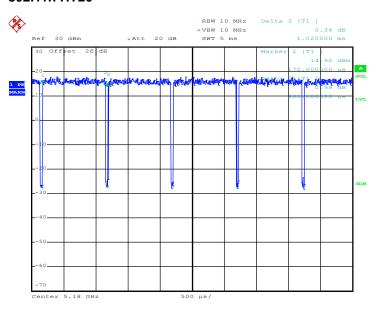
802.11ac VHT80



Date: 7.DEC.2016 01:46:19

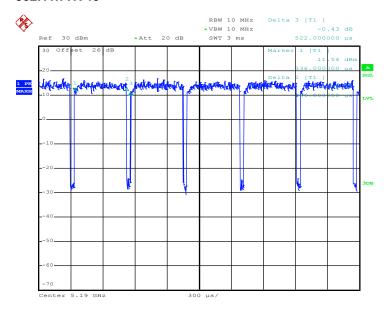


MIMO <Ant. 1+2(1)> 802.11n HT20



Date: 7.DEC.2016 01:26:25

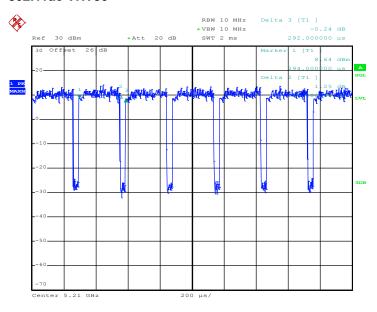
802.11n HT40



Date: 7.DEC.2016 01:34:07

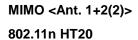


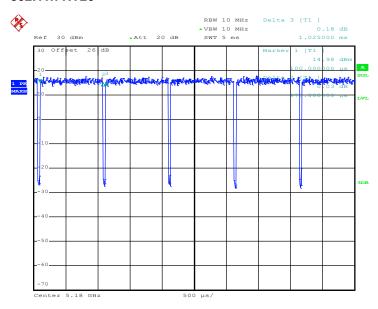
802.11ac VHT80



Date: 7.DEC.2016 01:48:24

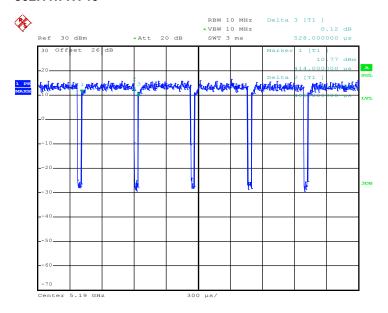






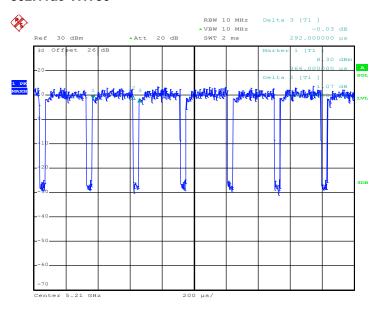
Date: 7.DEC.2016 01:27:15

802.11n HT40



Date: 7.DEC.2016 01:35:01

802.11ac VHT80



Date: 7.DEC.2016 01:49:07





Appendix E. Antenna Information

Antenna Information						
	Manufacturer	Amphenol				
	Antenna Type	Main: PIFA Antenna	Aux: PIFA Antenna			
	Part number	LX7847-16-000-C	LX7848-16-000-C			
Antenna 1	Peak gain	Main Antenna :	Aux Antenna :			
		WLAN(2.4GHz):-6.76	WLAN(2.4GHz):-6.52 Bluetooth :-6.52			
		WLAN(5GHz):-1.84	WLAN(5GHz):0.14			
Antenna 2	Manufacturer	Speedwire				
	Antenna Type	Main: PIFA Antenna	Aux: PIFA Antenna			
	Part number	F.0G.ZV-0006-003-00	F.0G.ZV-0006-004-00			
	Peak gain	Main Antenna:	Aux Antenna :			
		WLAN(2.4GHz):1.5	WLAN(2.4GHz):1.68 Bluetooth :1.68			
		WLAN(5GHz):-1.97	WLAN(5GHz):-0.3			

Report No.: FR6N0822-08D