FCC RF Test Report

APPLICANT	:	LC Future Center
EQUIPMENT	:	Tablet PC
BRAND NAME	:	Lenovo
MODEL NAME	:	TP00089A
FCC ID	:	2AJN7-TP00089ASI
STANDARD	:	FCC Part 15 Subpart E §15.407
CLASSIFICATION	:	(NII) Unlicensed National Information Infrastructure

The product were integrated the WWAN module (Model Name: EM7455, FCC ID: N7NEM7455) and the BT/WLAN module: 2x2 PCIe M.2 1216 SD adapter card (Brand Name: Intel, Model Name: 8265D2W, FCC ID: PD98265D2) during the test.

The product was received on Sep. 08, 2017 and testing was completed on Nov. 21, 2017. We, Sporton International (Kunshan) Inc., would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.
The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International (Kunshan) Inc., the test report shall not be reproduced except in full.

James Huang

TESTING
NVLAP LAB CODE 600155-0

Approved by: James Huang / Manager

Sporton International (Kunshan) Inc.
No.3-2 Ping-Xiang Rd, Kunshan Development Zone Kunshan City Jiangsu Province 215335 China

TABLE OF CONTENTS

REVISION HISTORY **3**

SUMMARY OF TEST RESULT **4**

1 GENERAL DESCRIPTION **5**

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

2 TEST CONFIGURATION OF EQUIPMENT UNDER TEST **8**

2.1 Carrier Frequency and Channel 8
2.2 Test Mode 10
2.3 Connection Diagram of Test System 12
2.4 Support Unit used in test configuration and system 13
2.5 EUT Operation Test Setup 13

3 TEST RESULT **14**

3.1 Maximum Conducted Output Power Measurement 14
3.2 Unwanted Emissions Measurement 16
3.3 AC Conducted Emission Measurement 22
3.4 Automatically Discontinue Transmission 26
3.5 Antenna Requirements 27

4 LIST OF MEASURING EQUIPMENT **28**

5 UNCERTAINTY OF EVALUATION **29**

APPENDIX A. CONDUCTED TEST RESULTS

APPENDIX B. RADIATED SPURIOUS EMISSION

APPENDIX C. RADIATED SPURIOUS EMISSION PLOTS

APPENDIX D. DUTY CYCLE PLOTS

APPENDIX E. SETUP PHOTOGRAPHS

REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR790812E	Rev. 01	Initial issue of report	Nov. 29, 2017

SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
-	2.1049 15.403(i)	26dB & 99% Bandwidth	-	Pass	1
3.1	15.407(a)	Maximum Conducted Output Power	FCC ≤ 24 dBm (depend on band)	Pass	-
-	15.407(a)	Power Spectral Density	FCC ≤ 11 dBm (depend on band)	Pass	1
3.2	15.407(b)	Unwanted Emissions	15.407(b) 15.209(a)	Pass	Under limit 2.18 dB at 5725.01 MHz
3.3	15.207	AC Conducted Emission	15.207(a)	Pass	Under limit 13.03 dB at 15.146 MHz
-	15.407(g)	Frequency Stability	Within Operation Band	Pass	1
3.4	15.407(c)	Automatically Discontinue Transmission	Discontinue Transmission	Pass	-
3.5	15.203 & 15.407(a)	Antenna Requirement	N/A	Pass	-

Remark 1:

All conducted test items were leverage from module RF report “160321-02 .TR01” and “160321-02 .TR02”.

1 General Description

1.1 Applicant

LC Future Center
7F., No.780,Beian Rd., Zhongshan Dist.,Taipei. Taiwan

1.2 Manufacturer

Lenovo PC HK Limited
23/F, Lincoln House, Taikoo Place 979 King's Road, Quarry Bay, HongKong

1.3 Feature of Equipment Under Test

Product Feature	
Equipment	Tablet PC
Brand Name	Lenovo
Model Name	TP00089A
FCC ID	2AJN7-TP00089ASI
EUT supports Radios application	WCDMA/HSPA/DC-HSDPA/ HSPA+ (16QAM uplink is not supported)/LTE WLAN 2.4GHz 802.11b/g/n HT20/HT40 WLAN 5GHz 802.11a/n HT20/HT40 WLAN 5GHz 802.11ac VHT20/VHT40/VHT80 Bluetooth v3.0+EDR/ Bluetooth v4.0 LE/ Bluetooth v4.1 LE
IMEI Code	Conduction: NA Radiation: NA for Sample 1/014583000472224 for Sample 2
HW Version	1.0
SW Version	Win 10 Pro 10.0.15063
EUT Stage	Identical Prototype

Remark:

1. The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.
2. There are two samples of EUT, the only difference between two samples are just for the WWAN antenna and WLAN/BT antenna with different suppliers, they are equivalent-type antennas , antenna type and gain are all the same between sample 1 and sample 2 . According to the difference, we evaluate sample 1 for full test, sample 2 only verified the worst cases of sample 1 for RSE test item.

1.4 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx/Rx Frequency Range	5180 MHz ~ 5240 MHz 5260 MHz ~ 5320 MHz 5500 MHz ~ 5720 MHz
Maximum Output Power to Antenna	**<5180 MHz ~ 5240 MHz>** 802.11a : 13.03 dBm (0.0201 W) 802.11n HT20 : 15.16 dBm (0.0328 W) 802.11n HT40 : 15.15 dBm (0.0327 W) 802.11ac VHT20 : 15.12 dBm (0.0325 W) 802.11ac VHT40 : 15.12 dBm (0.0325 W) 802.11ac VHT80 : 15.11 dBm (0.0324 W) **<5260 MHz ~ 5320 MHz>** 802.11a : 13.02 dBm (0.0200 W) 802.11n HT20 : 15.13 dBm (0.0326 W) 802.11n HT40 : 15.11 dBm (0.0324 W) 802.11ac VHT20 : 15.12 dBm (0.0325 W) 802.11ac VHT40 : 15.11 dBm (0.0324 W) 802.11ac VHT80 : 13.61 dBm (0.0230 W) **<5500 MHz ~ 5720 MHz >** 802.11a : 13.09 dBm (0.0204 W) 802.11n HT20 : 15.14 dBm (0.0327 W) 802.11n HT40 : 15.13 dBm (0.0326 W) 802.11ac VHT20 : 15.12 dBm (0.0325 W) 802.11ac VHT40 : 15.11 dBm (0.0324 W) 802.11ac VHT80 : 15.09 dBm (0.0323 W)
Antenna Type / Gain	**<5180 MHz ~ 5240 MHz>** **Ant. 1 :** PCB Antenna type with gain 1.20 dBi **Ant. 2 :** PCB Antenna type with gain 3.00 dBi **<5260 MHz ~ 5320 MHz>** **Ant. 1 :** PCB Antenna type with gain 1.00 dBi **Ant. 2 :** PCB Antenna type with gain 2.70 dBi **<5500 MHz ~ 5720 MHz >** **Ant. 1 :** PCB Antenna type with gain 2.10 dBi **Ant. 2 :** PCB Antenna type with gain 1.60 dBi
Type of Modulation	802.11a/n : OFDM (BPSK / QPSK / 16QAM / 64QAM) 802.11ac : OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM)
Antenna Function Description	

	Chain Port 1	Chain Port 2
802.11a/n/ac SISO	V	V
802.11n/ac MIMO	V	V

Note:

1. 802.11a only support SISO mode, 802.11n/ac support SISO & MIMO mode.
2. MIMO Ant. 1+2 is a calculated result from sum of the power MIMO Ant. 1 and MIMO Ant. 2.
3. For 802.11n HT20/11ac VHT20 and 802.11n HT40/11ac VHT40 mode, the whole testing has assessed only 802.11n HT20 / HT40 by referring to their higher conducted power.

1.5 Modification of EUT

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

1.6 Testing Location

Sporton International (Kunshan) Inc. is accredited to ISO 17025 by National Voluntary Laboratory Accreditation Program (NVLAP code: 600155-0) and the FCC designation No is CN5013.

Test Site	Sporton International (Kunshan) Inc.			
Test Site Location	No.3-2 Ping-Xiang Rd, Kunshan Development Zone Kunshan City Jiangsu Province 215335 China TEL : +86-512-57900158 FAX : +86-512-57900958			
Test Site No.	**Sporton Site No.**			**FCC Test Firm Registration No.**
	TH01-KS	03CH03-KS	CO01-KS	630927

Note: The test site complies with ANSI C63.4 2014 requirement.

1.7 Applicable Standards

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

- FCC Part 15 Subpart E
- FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r04
- FCC KDB 662911 D01 Multiple Transmitter Output v02r01.
- ANSI C63.10-2013

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.

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 were recorded in this report.

2.1 Carrier Frequency and 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
	42#	5210		

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
5250-5350 MHz Band 2 (U-NII-2A)	52	5260	60	5300
	54*	5270	62*	5310
	56	5280	64	5320
	58#	5290		

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
5470-5725 MHz Band 3 (U-NII-2C)	100	5500	112	5560
	102*	5510	116	5580
	104	5520	132	5660
	106#	5530	134*	5670
	108	5540	136	5680
	110*	5550	140	5700

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
TDWR Channel	118*	5590	124	5620
	120	5600	126*	5630
	122#	5610	128	5640

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
Straddle Channel	138#	5690	144	5720
	142*	5710		

Note:

1. The above Frequency and Channel in "*" were 802.11n HT40 and 802.11ac VHT40.
2. The above Frequency and Channel in "#" were 802.11ac VHT80.

2.2 Test Mode

Final test mode of Radiated Spurious Emissions are considering the modulation and worse data rates as below table.

Single Antenna

Modulation	Data Rate
802.11a	6 Mbps

MIMO Antenna

Modulation	Data Rate
802.11n HT20	MCS8
802.11n HT40	MCS8
802.11ac VHT80	MCS0

Test Cases	
AC Conducted Emission	Mode 1 : WCDMA Band V Idle + Bluetooth Link + WLAN Link(5G) + Adaptor + display with type C1 cable + Earphone Mode 2 : WCDMA Band V Idle + Bluetooth Link + WLAN Link(5G) + Adaptor + display with type C2 cable + Earphone
Remark: The worst case of conducted emission is mode 1; only the test data of it was reported.	

Ch. #		Band I：5150-5250 MHz	Band II：5250-5350 MHz	Band III：5470-5725MHz
		802.11a	802.11a	802.11a
L	Low	36	52	100
M	Middle	44	60	116
H	High	48	64	140
Straddle		-	-	144

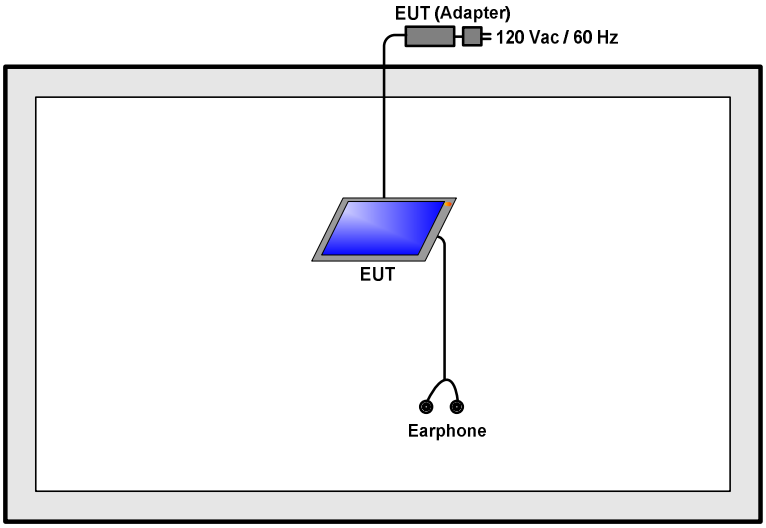
Ch. #		Band I：5150-5250 MHz	Band II：5250-5350 MHz	Band III：5470-5725MHz
		802.11n HT20	802.11n HT20	802.11n HT20
L	Low	36	52	100
M	Middle	44	60	116
H	High	48	64	140
Straddle		-	-	144

Ch. #		Band I：5150-5250 MHz	Band II：5250-5350 MHz	Band III：5470-5725MHz
		802.11n HT40	802.11n HT40	802.11n HT40
L	Low	38	54	102
M	Middle	-	-	110
H	High	46	62	134
Straddle		-	-	142

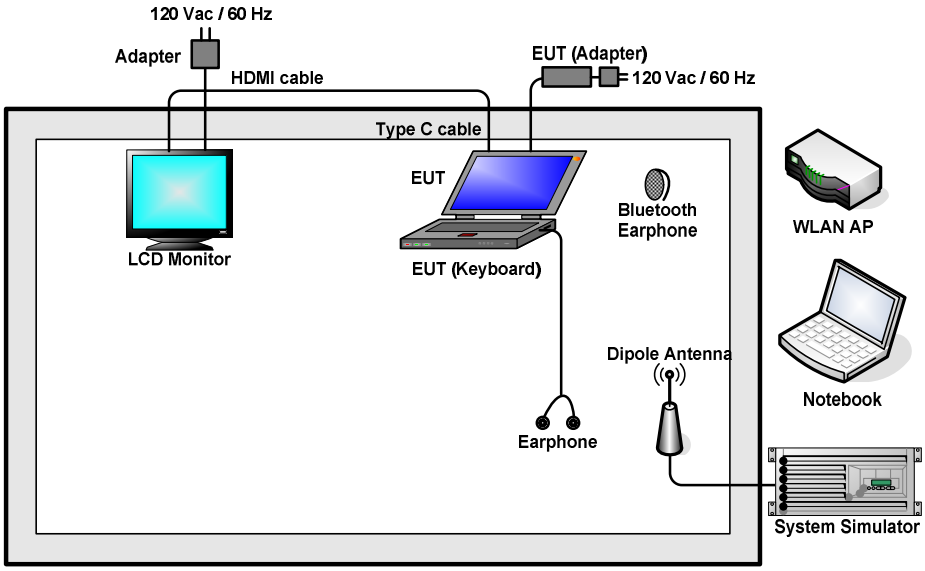
Ch. #		Band I：5150-5250 MHz	Band II：5250-5350 MHz	Band III：5470-5725MHz
		802.11ac VHT80	802.11ac VHT80	802.11ac VHT80
L	Low	-	-	106
M	Middle	42	58	-
H	High	-	-	122
Straddle		-	-	138

2.3 Connection Diagram of Test System

<WLAN Tx Mode>



<AC Conducted Emission Mode>



2.4 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	System Simulator	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m
2.	WLAN AP	LINKSYS	WRT600N	Q87-WRT600NV11	N/A	Unshielded, 1.8 m
3.	Notebook	Lenovo	G480	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
4.	LCD Monitor	Dell	N/A	N/A	N/A	N/A
5.	Bluetooth Earphone	Lenovo	LBH308	N/A	N/A	N/A
6.	Earphone	Lenovo	LH102	FCC DoC	N/A	Shielded, 1.8 m
7.	SD Card	Kingston	SDC4/4GB	N/A	N/A	N/A

2.5 EUT Operation Test Setup

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

For AC power line conducted emissions, the EUT was set to connect with the WLAN AP under large package sizes transmission.

3 Test Result

3.1 Maximum Conducted Output Power Measurement

3.1.1 Limit of Maximum Conducted Output Power

<FCC 14-30 CFR 15.407>

For mobile and portable client devices in the 5.15–5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW.

For the 5.25–5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or 11 dBm 10 log B, where B is the 26 dB emission bandwidth in megahertz.

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.

Note that U-NII-2 band, devices with a maximum e.i.r.p. greater than 500 mW shall implement TPC in order to have the capability to operate at least 6 dB below the maximum permitted e.i.r.p. of 1 W.

3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

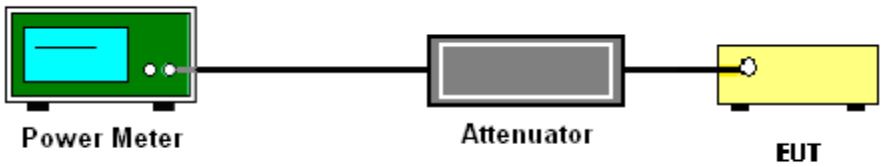
The testing follows Method PM of FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r04 for CDD modes.

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.

3.1.4 Test Setup

For normal channel:



3.1.5 Test Result of Conducted Output Power

Please refer to Appendix A.

3.2 Unwanted Emissions Measurement

This section is to measure unwanted emissions through radiated measurement for band edge spurious emissions and out of band emissions measurement.

3.2.1 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 shall comply with the general field strength limits 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)
- 27	68.3

(3) KDB789033 D01 v01r04 G)2)c)

(i) Section 15.407(b)(1) to (b)(3) specify the unwanted emission limits for the U-NII-1 and U-NII-2 bands. As specified, emissions above 1000 MHz that are outside of the restricted bands are subject to a peak emission limit of -27 dBm/MHz.[3]

(ii) Section 15.407(b)(4) specifies the unwanted emission limit for the U-NII-3 band. A band emissions mask is specified in Section 15.407(b)(4)(i). The emission limits are in terms of a Peak detector. An alternative to the band emissions mask is specified in Section 15.407(b)(4)(ii). The alternative limits are based on the highest antenna gain specified in the filing. There are also marketing and importation restrictions for the devices using the alternative limit.[4]

Note 3: An out-of-band emission that complies with both the average and peak limits of Section 15.209 is not required to satisfy the -27 dBm/MHz peak emission limit.

Note 4: Only devices with antenna gains of 10 dBi or less may be approved using the emission limits specified in Section 15.247(d) till March 2, 2018; all other devices operating in this band must use the mask specified in Section 15.407(b)(4)(i).

3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r04. Section G) 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

   - RBW = 1 MHz
   - VBW ≥ 3 MHz
   - Detector = Peak
   - Sweep time = auto
   - Trace mode = max hold

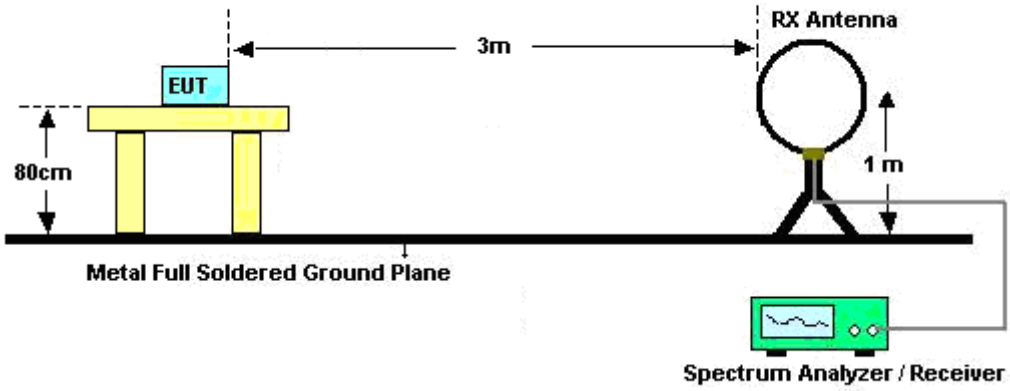
   (3) Procedures for Average Unwanted Emissions Measurements Above 1000MHz

   - 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.

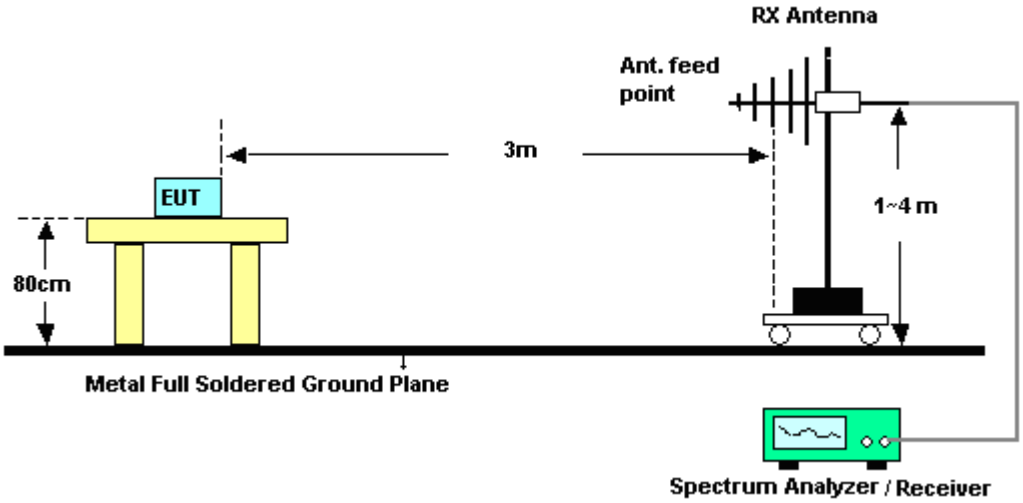
2. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
3. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
4. The antenna is a broadband 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.

3.2.4 Test Setup

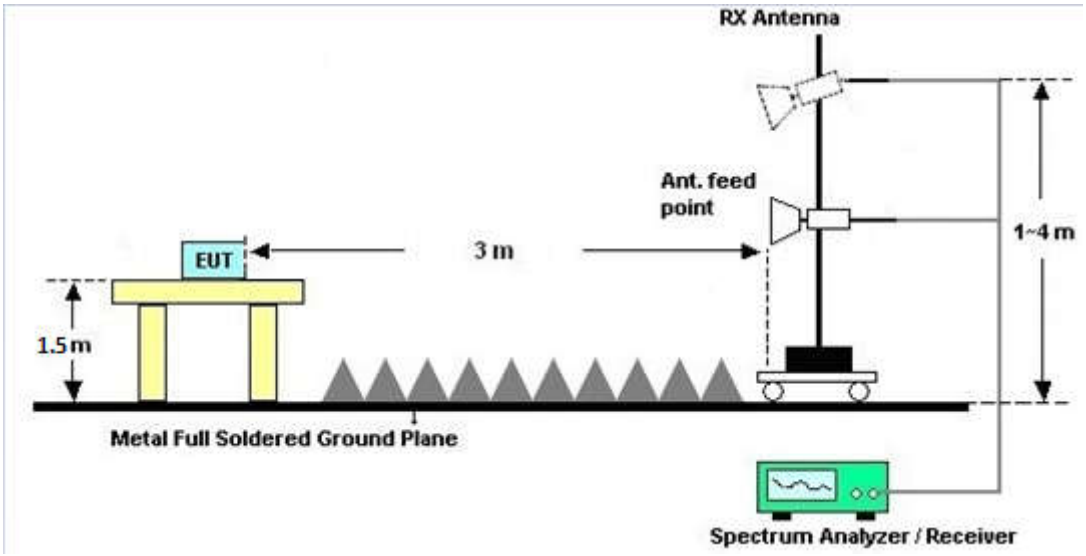
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



3.2.5 Test Results of Radiated Spurious 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 was not reported.

3.2.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix B and C.

3.2.7 Duty Cycle

Please refer to Appendix D.

3.2.8 Test Result of Radiated Spurious Emissions (30MHz ~ 10th Harmonic)

Please refer to Appendix B and C.

3.3 AC Conducted Emission Measurement

3.3.1 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.

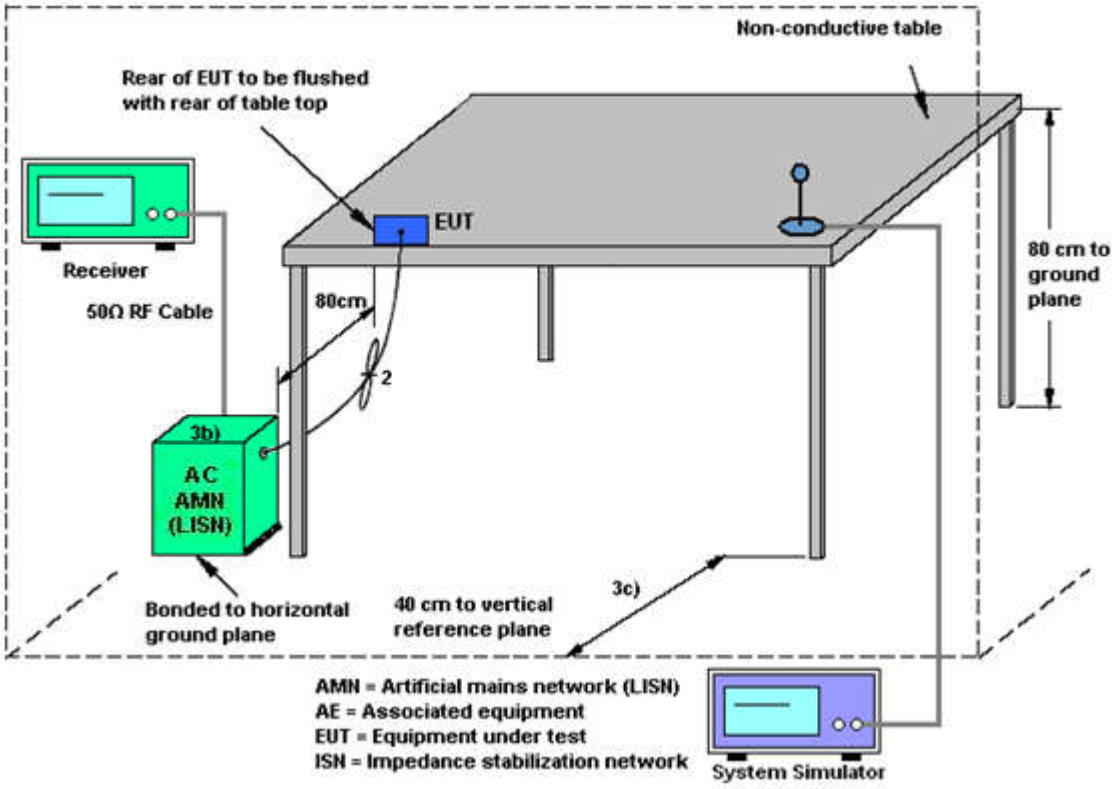
3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

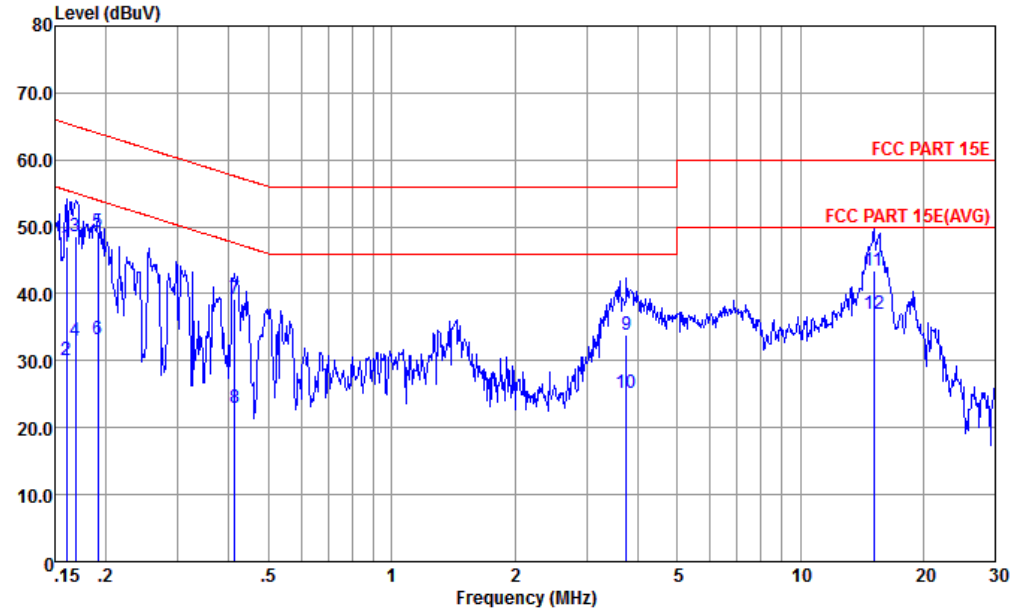
1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
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.

3.3.4 Test Setup



3.3.5 Test Result of AC Conducted Emission

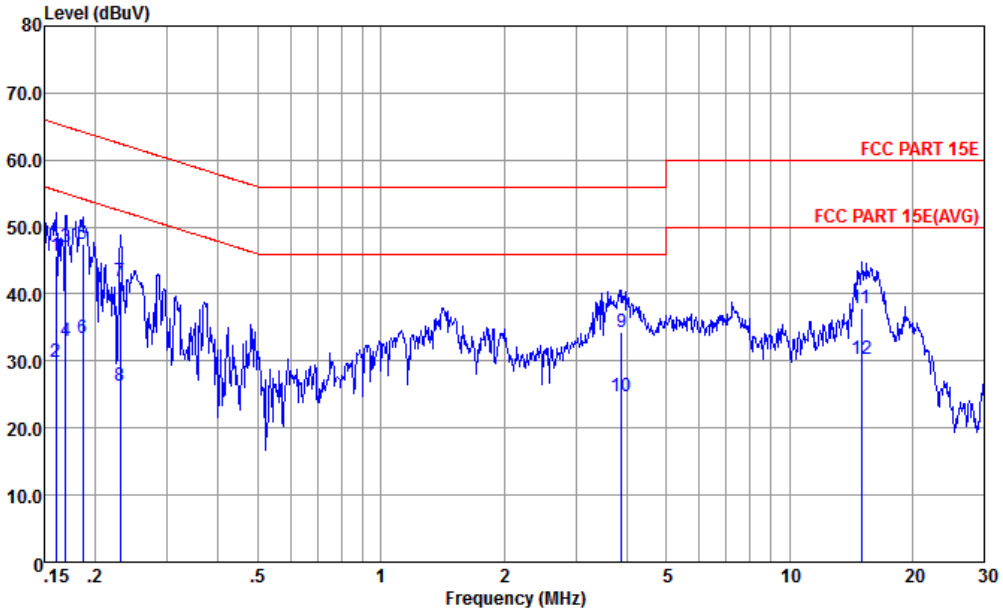
Test Mode :	Mode 1	**Temperature :**	22~24℃
Test Engineer :	Amos Zhang	**Relative Humidity :**	42~46%
Test Voltage :	120Vac / 60Hz	**Phase :**	Line
Function Type :	WCDMA Band V Idle + Bluetooth Link + WLAN Link(5G) + Adaptor + display with type C1 cable + Earphone		



Site : CO01-KS
Condition : FCC PART 15E LISN-L-171013-060103 LINE

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.160	46.95	-18.52	65.47	36.20	0.17	10.58	QP
2	0.160	30.05	-25.42	55.47	19.30	0.17	10.58	Average
3	0.169	48.53	-16.50	65.03	37.80	0.18	10.55	QP
4	0.169	33.03	-22.00	55.03	22.30	0.18	10.55	Average
5	0.191	49.18	-14.80	63.98	38.51	0.19	10.48	QP
6	0.191	33.28	-20.70	53.98	22.61	0.19	10.48	Average
7	0.413	39.24	-18.35	57.59	28.60	0.25	10.39	QP
8	0.413	22.94	-24.65	47.59	12.30	0.25	10.39	Average
9	3.759	33.81	-22.19	56.00	23.30	0.34	10.17	QP
10	3.759	25.11	-20.89	46.00	14.60	0.34	10.17	Average
11	15.146	43.47	-16.53	60.00	32.80	0.26	10.41	QP
12 *	15.146	36.97	-13.03	50.00	26.30	0.26	10.41	Average

Test Mode :	Mode 1	**Temperature :**	22~24℃
Test Engineer :	Amos Zhang	**Relative Humidity :**	42~46%
Test Voltage :	120Vac / 60Hz	**Phase :**	Neutral
Function Type :	WCDMA Band V Idle + Bluetooth Link + WLAN Link(5G) + Adaptor + display with type C1 cable + Earphone		



Site : CO01-KS
Condition : FCC PART 15E LISN-N-171013-060103 NEUTRAL

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.160	45.76	-19.71	65.47	34.90	0.28	10.58	QP
2	0.160	29.76	-25.71	55.47	18.90	0.28	10.58	Average
3	0.169	47.03	-17.96	64.99	36.20	0.28	10.55	QP
4	0.169	32.93	-22.06	54.99	22.10	0.28	10.55	Average
5 *	0.186	47.38	-16.82	64.20	36.60	0.28	10.50	QP
6	0.186	33.38	-20.82	54.20	22.60	0.28	10.50	Average
7	0.230	41.93	-20.51	62.44	31.20	0.28	10.45	QP
8	0.230	26.33	-26.11	52.44	15.60	0.28	10.45	Average
9	3.881	34.40	-21.60	56.00	23.90	0.33	10.17	QP
10	3.881	24.80	-21.20	46.00	14.30	0.33	10.17	Average
11	14.986	37.82	-22.18	60.00	27.20	0.21	10.41	QP
12	14.986	30.22	-19.78	50.00	19.60	0.21	10.41	Average

3.4 Automatically Discontinue Transmission

3.4.1 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.

3.4.2 Measuring Instruments

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

3.4.3 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.

3.5 Antenna Requirements

3.5.1 Standard Applicable

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.

3.5.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.5.3 Antenna Gain

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

For power, the directional gain G_{ANT} is set equal to the antenna having the highest gain, i.e., F)2)f)i).

For PSD, the directional gain calculation is following F)2)f)ii) of KDB 662911 D01 v02r01.

The power and PSD limit should be modified if the directional gain of EUT is over 6 dBi,

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

	Chain Port 0 Ant 1 (dBi)	Chain Port 1 Ant 2 (dBi)	DG for Power (dBi)	DG for PSD (dBi)	Power Limit Reduction (dB)	PSD Limit Reduction (dB)
5.2G Band	1.20	3.00	3.00	3.00	0.00	0.00
5.3G Band	1.00	2.70	2.70	2.70	0.00	0.00
5.5G Band	2.10	1.60	2.10	2.10	0.00	0.00

Power limit reduction = Composite gain – 6dBi, (min = 0)

PSD limit reduction = Composite gain + PSD Array gain – 6dBi, (min = 0)

4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Pulse Power Senor	Anritsu	MA2411B	0917070	300MHz~40GHz	Jan. 19, 2017	Nov. 21, 2017	Jan. 19, 2018	Conducted (TH01-KS)
Power Meter	Anritsu	ML2495A	1005002	50MHz Bandwidth	Jan. 19, 2017	Nov. 21, 2017	Jan. 19, 2018	Conducted (TH01-KS)
Spectrum Analyzer	R&S	FSV40	101040	10Hz~40GHz	Aug. 08, 2017	Nov. 21, 2017	Aug. 07, 2018	Conducted (TH01-KS)
EMI Test Receiver	Keysight	N9038A	MY56400004	3Hz~8.5GHz; Max 30dBm	Oct. 19, 2017	Nov. 20, 2017	Oct. 18, 2018	Radiation (03CH03-KS)
EXA Spectrum Analyzer	Keysight	N9010A	MY55150244	10Hz~44GHz	Apr. 18, 2017	Nov. 20, 2017	Apr. 17, 2018	Radiation (03CH03-KS)
Loop Antenna	R&S	HFH2-Z2	100321	9kHz~30MHz	Nov. 23, 2016	Nov. 20, 2017	Nov. 22, 2017	Radiation (03CH03-KS)
Bilog Antenna	TeseQ	CBL6112D	35406	25MHz~2GHz	Apr. 22, 2017	Nov. 20, 2017	Apr. 21, 2018	Radiation (03CH03-KS)
Horn Antenna	Schwarzbeck	BBHA9120D	9120D-1356	1GHz~18GHz	Apr. 22, 2017	Nov. 20, 2017	Apr. 21, 2018	Radiation (03CH03-KS)
SHF-EHF Horn	Schwarzbeck	BBHA 9170	BBHA170249	15GHz~40GHz	Feb. 15, 2017	Nov. 20, 2017	Feb. 14, 2018	Radiation (03CH03-KS)
Amplifier	com-power	PA-103A	161069	1MHz~1000MHz / 32 dB	Apr. 18, 2017	Nov. 20, 2017	Apr. 17, 2018	Radiation (03CH03-KS)
Amplifier	MITEQ	TTA1840-35-HG	1887435	18GHz~40GHz	Oct. 12, 2017	Nov. 20, 2017	Oct. 11, 2018	Radiation (03CH03-KS)
high gain Amplifier	MITEQ	AMF-7D-00101800-30-10P	2025788	1GHz~18GHz	Apr. 18. 2017	Nov. 20, 2017	Apr. 17, 2018	Radiation (03CH03-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	Nov. 20, 2017	NCR	Radiation (03CH03-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Nov. 20, 2017	NCR	Radiation (03CH03-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Nov. 20, 2017	NCR	Radiation (03CH03-KS)
EMI Receiver	R&S	ESCI7	100768	9kHz~7GHz;	Apr. 20, 2017	Nov. 16, 2017	Apr. 19, 2018	Conduction (CO01-KS)
AC LISN	MessTec	AN3016	060103	9kHz~30MHz	Oct. 13, 2017	Nov. 16, 2017	Oct. 12, 2018	Conduction (CO01-KS)
AC LISN (for auxiliary equipment)	MessTec	AN3016	060105	9kHz~30MHz	Oct. 13, 2017	Nov. 16, 2017	Oct. 12, 2018	Conduction (CO01-KS)
AC Power Source	Chroma	61602	ABP000000811	AC 0V~300V, 45Hz~1000Hz	Oct. 12, 2017	Nov. 16, 2017	Oct. 11, 2018	Conduction (CO01-KS)

NCR: No Calibration Required

5 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.3 dB

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	4.6 dB

Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	4.5 dB

Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	4.7 dB

Appendix A. Conducted Test Results

Report Number : FR790812E

Test Engineer:	Ivan Zhang	Temperature:	21~25	°C
Test Date:	2017/11/21	Relative Humidity:	51~54	%

Report Number : FR790812E

TEST RESULTS DATA
Average Power Table

FCC Band I															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)			Pass/Fail
					Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	1	36	5180	0.24	0.24	12.48	13.01		24.00	24.00	1.20	3.00		Pass
11a	6Mbps	1	44	5220	0.24	0.24	12.49	13.03		24.00	24.00	1.20	3.00		Pass
11a	6Mbps	1	48	5240	0.24	0.24	12.50	12.95		24.00	24.00	1.20	3.00		Pass
HT20	MCS0	1	36	5180	0.19	0.19	11.85	12.43		24.00	24.00	1.20	3.00		Pass
HT20	MCS0	1	44	5220	0.19	0.19	11.84	12.41		24.00	24.00	1.20	3.00		Pass
HT20	MCS0	1	48	5240	0.19	0.19	11.82	12.31		24.00	24.00	1.20	3.00		Pass
HT40	MCS0	1	38	5190	0.74	0.74	11.82	12.38		24.00	24.00	1.20	3.00		Pass
HT40	MCS0	1	46	5230	0.74	0.74	11.85	12.41		24.00	24.00	1.20	3.00		Pass
VHT20	MCS0	1	36	5180	0.22	0.19	11.84	12.35		24.00	24.00	1.20	3.00		Pass
VHT20	MCS0	1	44	5220	0.22	0.19	11.75	12.38		24.00	24.00	1.20	3.00		Pass
VHT20	MCS0	1	48	5240	0.22	0.19	11.78	12.32		24.00	24.00	1.20	3.00		Pass
VHT40	MCS0	1	38	5190	0.74	0.73	11.81	12.39		24.00	24.00	1.20	3.00		Pass
VHT40	MCS0	1	46	5230	0.74	0.73	11.75	12.37		24.00	24.00	1.20	3.00		Pass
VHT80	MCS0	1	42	5210	0.75	0.75	11.80	12.38		24.00	24.00	1.20	3.00		Pass
HT20	MCS8	2	36	5180	0.19	0.19	11.85	12.43	15.16	24.00		3.00			Pass
HT20	MCS8	2	44	5220	0.19	0.19	11.84	12.41	15.15	24.00		3.00			Pass
HT20	MCS8	2	48	5240	0.19	0.19	11.82	12.31	15.09	24.00		3.00			Pass
HT40	MCS8	2	38	5190	0.74	0.74	11.82	12.38	15.12	24.00		3.00			Pass
HT40	MCS8	2	46	5230	0.74	0.74	11.85	12.41	15.15	24.00		3.00			Pass
VHT20	MCS0	2	36	5180	0.22	0.19	11.84	12.35	15.12	24.00		3.00			Pass
VHT20	MCS0	2	44	5220	0.22	0.19	11.75	12.38	15.09	24.00		3.00			Pass
VHT20	MCS0	2	48	5240	0.22	0.19	11.78	12.32	15.07	24.00		3.00			Pass
VHT40	MCS0	2	38	5190	0.74	0.73	11.81	12.39	15.12	24.00		3.00			Pass
VHT40	MCS0	2	46	5230	0.74	0.73	11.75	12.37	15.08	24.00		3.00			Pass
VHT80	MCS0	2	42	5210	0.75	0.75	11.80	12.38	15.11	24.00		3.00			Pass

Report Number : FR790812E

TEST RESULTS DATA
Average Power Table

FCC Band II															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail
					Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	1	52	5260	0.24	0.24	12.45	12.96		24.00	24.00	1.00	2.70	26.99	Pass
11a	6Mbps	1	60	5300	0.24	0.24	12.55	13.02		24.00	24.00	1.00	2.70	26.99	Pass
11a	6Mbps	1	64	5320	0.24	0.24	12.47	12.99		24.00	24.00	1.00	2.70	26.99	Pass
HT20	MCS0	1	52	5260	0.19	0.19	11.79	12.38		24.00	24.00	1.00	2.70	26.99	Pass
HT20	MCS0	1	60	5300	0.19	0.19	11.87	12.30		24.00	24.00	1.00	2.70	26.99	Pass
HT20	MCS0	1	64	5320	0.19	0.19	11.82	12.40		24.00	24.00	1.00	2.70	26.99	Pass
HT40	MCS0	1	54	5270	0.74	0.74	11.83	12.35		24.00	24.00	1.00	2.70	26.99	Pass
HT40	MCS0	1	62	5310	0.74	0.74	11.49	12.09		24.00	24.00	1.00	2.70	26.99	Pass
VHT20	MCS0	1	52	5260	0.22	0.19	11.77	12.35		24.00	24.00	1.00	2.70	26.99	Pass
VHT20	MCS0	1	60	5300	0.22	0.19	11.83	12.37		24.00	24.00	1.00	2.70	26.99	Pass
VHT20	MCS0	1	64	5320	0.22	0.19	11.81	12.33		24.00	24.00	1.00	2.70	26.99	Pass
VHT40	MCS0	1	54	5270	0.74	0.73	11.80	12.38		24.00	24.00	1.00	2.70	26.99	Pass
VHT40	MCS0	1	62	5310	0.74	0.73	11.46	12.04		24.00	24.00	1.00	2.70	26.99	Pass
VHT80	MCS0	1	58	5290	0.75	0.75	10.28	10.89		24.00	24.00	1.00	2.70	26.99	Pass
HT20	MCS8	2	52	5260	0.19	0.19	11.79	12.38	15.11	24.00		2.70		26.99	Pass
HT20	MCS8	2	60	5300	0.19	0.19	11.87	12.30	15.10	24.00		2.70		26.99	Pass
HT20	MCS8	2	64	5320	0.19	0.19	11.82	12.40	15.13	24.00		2.70		26.99	Pass
HT40	MCS8	2	54	5270	0.74	0.74	11.83	12.35	15.11	24.00		2.70		26.99	Pass
HT40	MCS8	2	62	5310	0.74	0.74	11.49	12.09	14.81	24.00		2.70		26.99	Pass
VHT20	MCS0	2	52	5260	0.22	0.19	11.77	12.35	15.08	24.00		2.70		26.99	Pass
VHT20	MCS0	2	60	5300	0.22	0.19	11.83	12.37	15.12	24.00		2.70		26.99	Pass
VHT20	MCS0	2	64	5320	0.22	0.19	11.81	12.33	15.09	24.00		2.70		26.99	Pass
VHT40	MCS0	2	54	5270	0.74	0.73	11.80	12.38	15.11	24.00		2.70		26.99	Pass
VHT40	MCS0	2	62	5310	0.74	0.73	11.46	12.04	14.77	24.00		2.70		26.99	Pass
VHT80	MCS0	2	58	5290	0.75	0.75	10.28	10.89	13.61	24.00		2.70		26.99	Pass

Report Number : FR790812E

TEST RESULTS DATA
Average Power Table

FCC Band III															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail
					Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	1	100	5500	0.24	0.24	12.48	13.01		24.00	24.00	2.10	1.60	26.99	Pass
11a	6Mbps	1	116	5580	0.24	0.24	12.51	12.99		24.00	24.00	2.10	1.60	26.99	Pass
11a	6Mbps	1	140	5700	0.24	0.24	12.53	13.09		24.00	24.00	2.10	1.60	26.99	Pass
11a	6Mbps	1	144	5720	0.24	0.24	12.46	12.99		24.00	24.00	2.10	1.60	26.99	Pass
HT20	MCS0	1	100	5500	0.19	0.19	11.80	12.42		24.00	24.00	2.10	1.60	26.99	Pass
HT20	MCS0	1	116	5580	0.19	0.19	11.79	12.41		24.00	24.00	2.10	1.60	26.99	Pass
HT20	MCS0	1	140	5700	0.19	0.19	11.76	12.34		24.00	24.00	2.10	1.60	26.99	Pass
HT20	MCS0	1	144	5720	0.19	0.19	11.75	12.33		24.00	24.00	2.10	1.60	26.99	Pass
HT40	MCS0	1	102	5510	0.74	0.74	11.79	12.31		24.00	24.00	2.10	1.60	26.99	Pass
HT40	MCS0	1	110	5550	0.74	0.74	11.77	12.36		24.00	24.00	2.10	1.60	26.99	Pass
HT40	MCS0	1	134	5670	0.74	0.74	11.80	12.41		24.00	24.00	2.10	1.60	26.99	Pass
HT40	MCS0	1	142	5710	0.74	0.74	11.78	12.35		24.00	24.00	2.10	1.60	26.99	Pass
VHT20	MCS0	1	100	5500	0.22	0.19	11.78	12.38		24.00	24.00	2.10	1.60	26.99	Pass
VHT20	MCS0	1	116	5580	0.22	0.19	11.83	12.36		24.00	24.00	2.10	1.60	26.99	Pass
VHT20	MCS0	1	140	5700	0.22	0.19	11.82	12.33		24.00	24.00	2.10	1.60	26.99	Pass
VHT20	MCS0	1	144	5720	0.22	0.19	11.74	12.37		24.00	24.00	2.10	1.60	26.99	Pass
VHT40	MCS0	1	102	5510	0.74	0.73	11.79	12.35		24.00	24.00	2.10	1.60	26.99	Pass
VHT40	MCS0	1	110	5550	0.74	0.73	11.82	12.36		24.00	24.00	2.10	1.60	26.99	Pass
VHT40	MCS0	1	134	5670	0.74	0.73	11.76	12.32		24.00	24.00	2.10	1.60	26.99	Pass
VHT40	MCS0	1	142	5710	0.74	0.73	11.81	12.38		24.00	24.00	2.10	1.60	26.99	Pass
VHT80	MCS0	1	106	5530	0.75	0.75	10.05	10.64		24.00	24.00	2.10	1.60	26.99	Pass
VHT80	MCS0	1	122	5610	0.75	0.75	11.80	12.33		24.00	24.00	2.10	1.60	26.99	Pass
VHT80	MCS0	1	138	5690	0.75	0.75	11.83	12.32		24.00	24.00	2.10	1.60	26.99	Pass
HT20	MCS8	2	100	5500	0.19	0.19	11.80	12.42	15.14	24.00		2.10		26.99	Pass
HT20	MCS8	2	116	5580	0.19	0.19	11.79	12.41	15.13	24.00		2.10		26.99	Pass
HT20	MCS8	2	140	5700	0.19	0.19	11.76	12.34	15.07	24.00		2.10		26.99	Pass
HT20	MCS8	2	144	5720	0.19	0.19	11.75	12.33	15.06	24.00		2.10		26.99	Pass
HT40	MCS8	2	102	5510	0.74	0.74	11.79	12.31	15.07	24.00		2.10		26.99	Pass
HT40	MCS8	2	110	5550	0.74	0.74	11.77	12.36	15.08	24.00		2.10		26.99	Pass
HT40	MCS8	2	134	5670	0.74	0.74	11.80	12.41	15.13	24.00		2.10		26.99	Pass
HT40	MCS8	2	142	5710	0.74	0.74	11.78	12.35	15.08	24.00		2.10		26.99	Pass
VHT20	MCS0	2	100	5500	0.22	0.19	11.78	12.38	15.10	24.00		2.10		26.99	Pass
VHT20	MCS0	2	116	5580	0.22	0.19	11.83	12.36	15.12	24.00		2.10		26.99	Pass
VHT20	MCS0	2	140	5700	0.22	0.19	11.82	12.33	15.10	24.00		2.10		26.99	Pass
VHT20	MCS0	2	144	5720	0.22	0.19	11.74	12.37	15.08	24.00		2.10		26.99	Pass
VHT40	MCS0	2	102	5510	0.74	0.73	11.79	12.35	15.09	24.00		2.10		26.99	Pass
VHT40	MCS0	2	110	5550	0.74	0.73	11.82	12.36	15.11	24.00		2.10		26.99	Pass
VHT40	MCS0	2	134	5670	0.74	0.73	11.76	12.32	15.06	24.00		2.10		26.99	Pass
VHT40	MCS0	2	142	5710	0.74	0.73	11.81	12.38	15.11	24.00		2.10		26.99	Pass
VHT80	MCS0	2	106	5530	0.75	0.75	10.05	10.64	13.37	24.00		2.10		26.99	Pass
VHT80	MCS0	2	122	5610	0.75	0.75	11.80	12.33	15.09	24.00		2.10		26.99	Pass
VHT80	MCS0	2	138	5690	0.75	0.75	11.83	12.32	15.09	24.00		2.10		26.99	Pass

Appendix B. Radiated Spurious Emission

For Sample 1

Band 1 - 5150~5250MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 36 5180MHz		5142.72	51.39	-22.61	74	45.04	31.17	11.88	36.7	100	332	P	H
		5148.8	42.34	-11.66	54	35.99	31.17	11.88	36.7	100	332	A	H
	*	5184	101.12	-	-	94.74	31.14	11.93	36.69	100	332	P	H
	*	5184	94.03	-	-	87.65	31.14	11.93	36.69	100	332	A	H
		5135.36	52.22	-21.78	74	45.87	31.19	11.86	36.7	299	139	P	V
		5142.08	42.35	-11.65	54	36	31.17	11.88	36.7	299	139	A	V
	*	5182	101.45	-	-	95.07	31.14	11.93	36.69	299	139	P	V
	*	5182	94.52	-	-	88.14	31.14	11.93	36.69	299	139	A	V
802.11a CH 44 5220MHz		5148	51.39	-22.61	74	45.04	31.17	11.88	36.7	100	332	P	H
		5148	41.15	-12.85	54	34.8	31.17	11.88	36.7	100	332	A	H
	*	5216	100.72	-	-	94.33	31.11	11.97	36.69	100	332	P	H
	*	5216	94.2	-	-	87.81	31.11	11.97	36.69	100	332	A	H
		5370.84	48.38	-25.62	74	41.96	30.96	12.15	36.69	100	332	P	H
		5381.64	38.98	-15.02	54	32.56	30.94	12.17	36.69	100	332	A	H
		5136.8	51.02	-22.98	74	44.67	31.19	11.86	36.7	301	136	P	V
		5140.32	40.9	-13.1	54	34.55	31.17	11.88	36.7	301	136	A	V
	*	5224	101.97	-	-	95.58	31.11	11.97	36.69	301	136	P	V
	*	5224	94.77	-	-	88.38	31.11	11.97	36.69	301	136	A	V
		5386.5	48.18	-25.82	74	41.76	30.94	12.17	36.69	301	136	P	V
		5383.98	39.45	-14.55	54	33.03	30.94	12.17	36.69	301	136	A	V

802.11a CH 48 5240MHz	*	5238	102.24	-	-	95.85	31.09	11.99	36.69	100	323	P	H
	*	5238	94.98	-	-	88.59	31.09	11.99	36.69	100	323	A	H
		5376.78	48.17	-25.83	74	41.75	30.96	12.15	36.69	100	323	P	H
		5353.74	39.59	-14.41	54	33.17	30.98	12.13	36.69	100	323	A	H
	*	5244	102.39	-	-	96	31.07	12.01	36.69	300	135	P	V
	*	5244	95.21	-	-	88.82	31.07	12.01	36.69	300	135	A	V
		5399.1	48.85	-25.15	74	42.42	30.93	12.19	36.69	300	135	P	V
		5350.5	40.12	-13.88	54	33.7	30.98	12.13	36.69	300	135	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 1 5150~5250MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 36 5180MHz		10360	43.66	-30.34	74	56.76	37.4	15.65	66.15	100	360	P	H
		10360	42.55	-31.45	74	55.65	37.4	15.65	66.15	100	0	P	V
802.11a CH 44 5220MHz		10440	43.15	-30.85	74	56.1	37.47	15.68	66.1	100	360	P	H
		10440	43.87	-30.13	74	56.82	37.47	15.68	66.1	100	0	P	V
802.11a CH 48 5240MHz		10480	44.26	-29.74	74	57.11	37.52	15.7	66.07	100	0	P	H
		10480	43.44	-30.56	74	56.29	37.52	15.7	66.07	100	360	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 2 - 5250~5350MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 52 5260MHz		5119.04	49.91	-24.09	74	43.57	31.2	11.84	36.7	100	323	P	H
		5146.24	40.91	-13.09	54	34.56	31.17	11.88	36.7	100	323	A	H
	*	5256	102.53	-	-	96.14	31.07	12.01	36.69	100	323	P	H
	*	5256	95.09	-	-	88.7	31.07	12.01	36.69	100	323	A	H
		5132.8	50.5	-23.5	74	44.15	31.19	11.86	36.7	324	135	P	V
		5107.52	40.86	-13.14	54	34.52	31.2	11.84	36.7	324	135	A	V
	*	5264	103.72	-	-	97.32	31.06	12.03	36.69	324	135	P	V
	*	5264	95.94	-	-	89.54	31.06	12.03	36.69	324	135	A	V
802.11a CH 60 5300MHz		5144.16	50.31	-23.69	74	43.96	31.17	11.88	36.7	100	323	P	H
		5141.44	40.8	-13.2	54	34.45	31.17	11.88	36.7	100	323	A	H
	*	5304	102.6	-	-	96.2	31.02	12.07	36.69	100	323	P	H
	*	5304	95.26	-	-	88.86	31.02	12.07	36.69	100	323	A	H
		5352.7	49.79	-24.21	74	43.37	30.98	12.13	36.69	100	323	P	H
		5350.4	41.62	-12.38	54	35.2	30.98	12.13	36.69	100	323	A	H
		5136.48	50.75	-23.25	74	44.4	31.19	11.86	36.7	303	136	P	V
		5139.36	40.57	-13.43	54	34.22	31.19	11.86	36.7	303	136	A	V
	*	5298	103.55	-	-	97.15	31.02	12.07	36.69	303	136	P	V
	*	5298	96.61	-	-	90.21	31.02	12.07	36.69	303	136	A	V
		5357.4	51.35	-22.65	74	44.93	30.98	12.13	36.69	303	136	P	V
		5351.9	41.97	-12.03	54	35.55	30.98	12.13	36.69	303	136	A	V

802.11a CH 64 5320MHz	*	5316	101.51	-	-	95.1	31.01	12.09	36.69	100	324	P	H
	*	5316	94.75	-	-	88.34	31.01	12.09	36.69	100	324	A	H
		5358.3	51.67	-22.33	74	45.25	30.98	12.13	36.69	100	324	P	H
		5350.5	42.79	-11.21	54	36.37	30.98	12.13	36.69	100	324	A	H
	*	5324	103.57	-	-	97.16	31.01	12.09	36.69	302	135	P	V
	*	5324	96.26	-	-	89.85	31.01	12.09	36.69	302	135	A	V
		5358.3	52.47	-21.53	74	46.05	30.98	12.13	36.69	302	135	P	V
		5350.01	43.98	-10.02	54	37.56	30.98	12.13	36.69	302	135	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 2 5250~5350MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 52 5260MHz		10520	44.46	-29.54	74	57.22	37.56	15.72	66.04	100	0	P	H
		10520	43.15	-30.85	74	55.91	37.56	15.72	66.04	100	360	P	V
802.11a CH 60 5300MHz		10600	42.92	-31.08	74	55.5	37.65	15.75	65.98	100	0	P	H
		10600	42.69	-31.31	74	55.27	37.65	15.75	65.98	100	360	P	V
802.11a CH 64 5320MHz		10640	42.91	-31.09	74	55.42	37.68	15.77	65.96	100	360	P	H
		10640	42.85	-31.15	74	55.36	37.68	15.77	65.96	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - 5470~5725MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 100 5500MHz		5467.76	54.24	-19.76	74	47.8	30.86	12.27	36.69	100	318	P	H
		5469.84	43.47	-10.53	54	37.03	30.86	12.27	36.69	100	318	A	H
	*	5500	102.32	-	-	95.86	30.83	12.32	36.69	100	318	P	H
	*	5500	96.41	-	-	89.95	30.83	12.32	36.69	100	318	A	H
		5462	52.53	-21.47	74	46.09	30.88	12.25	36.69	300	136	P	V
		5468.24	42.55	-11.45	54	36.11	30.86	12.27	36.69	300	136	A	V
	*	5504	101.32	-	-	94.85	30.83	12.32	36.68	300	136	P	V
	*	5504	94.35	-	-	87.88	30.83	12.32	36.68	300	136	A	V
802.11a CH 116 5580MHz		5427.44	49.79	-24.21	74	43.36	30.91	12.21	36.69	100	319	P	H
		5423.28	40.83	-13.17	54	34.4	30.91	12.21	36.69	100	319	A	H
	*	5582	102.32	-	-	95.83	30.75	12.42	36.68	100	319	P	H
	*	5582	95.89	-	-	89.4	30.75	12.42	36.68	100	319	A	H
		5732.44	50.04	-23.96	74	43	31.32	12.57	36.85	100	319	P	H
		5737.8	40.96	-13.04	54	33.78	31.44	12.59	36.85	100	319	A	H
		5441.84	49.39	-24.61	74	42.96	30.89	12.23	36.69	300	102	P	V
		5420.72	40.52	-13.48	54	34.09	30.91	12.21	36.69	300	102	A	V
	*	5582	101.33	-	-	94.84	30.75	12.42	36.68	300	102	P	V
	*	5582	94.02	-	-	87.53	30.75	12.42	36.68	300	102	A	V
		5738.44	49.33	-24.67	74	42.15	31.44	12.59	36.85	300	102	P	V
		5735.64	40.38	-13.62	54	33.2	31.44	12.59	36.85	300	102	A	V

802.11a CH 140 5700MHz	*	5696	103.71	-	-	96.88	31.07	12.53	36.77	100	318	P	H
	*	5696	96.29	-	-	89.46	31.07	12.53	36.77	100	318	A	H
		5730.04	57.79	-16.21	74	50.71	31.32	12.57	36.81	100	318	P	H
		5725.01	47.08	-6.92	54	40	31.32	12.57	36.81	100	318	A	H
	*	5702	100.94	-	-	93.97	31.19	12.55	36.77	317	253	P	V
	*	5702	93.22	-	-	86.25	31.19	12.55	36.77	317	253	A	V
		5726.28	53.03	-20.97	74	45.95	31.32	12.57	36.81	317	253	P	V
		5725.01	44.64	-9.36	54	37.56	31.32	12.57	36.81	317	253	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - 5470~5725MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 100 5500MHz		11000	45.07	-28.93	74	56.79	38.06	15.92	65.7	100	360	P	H
		16500	52.04	-21.96	74	59.57	40.55	16.87	64.95	100	5	P	H
		16500	46.8	-7.2	54	54.33	40.55	16.87	64.95	100	5	A	H
		11000	44.35	-29.65	74	56.07	38.06	15.92	65.7	100	0	P	V
802.11a CH 116 5580MHz		11160	44.52	-29.48	74	55.87	38.24	15.99	65.58	100	360	P	H
		16740	54.67	-19.33	74	60.66	40.67	17.54	64.2	100	4	P	H
	!	16740	50.28	-3.72	54	56.27	40.67	17.54	64.2	100	4	A	H
		11160	44.83	-29.17	74	56.18	38.24	15.99	65.58	100	0	P	V
		16746	54.87	-19.13	74	60.86	40.67	17.54	64.2	100	324	P	V
		16746	46.68	-7.32	54	52.67	40.67	17.54	64.2	100	324	A	V
802.11a CH 140 5700MHz		11400	43.91	-30.09	74	54.73	38.49	16.1	65.41	100	360	P	H
		17100	59.72	-14.28	74	63.37	41.53	18.29	63.47	101	2	P	H
	!	17100	50.61	-3.39	54	54.26	41.53	18.29	63.47	101	2	A	H
		11400	44.88	-29.12	74	55.7	38.49	16.1	65.41	100	0	P	V
		17100	55.48	-18.52	74	59.13	41.53	18.29	63.47	307	18	P	V
	!	17100	50.01	-3.99	54	53.66	41.53	18.29	63.47	306	18	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - Straddle Channel

WIFI 802.11a (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 144 5720MHz	*	5718	104.43	-	-	97.35	31.32	12.57	36.81	100	318	P	H
	*	5718	96.98	-	-	89.9	31.32	12.57	36.81	100	318	A	H
	*	5722	102.02	-	-	94.94	31.32	12.57	36.81	395	261	P	V
	*	5722	94.65	-	-	87.57	31.32	12.57	36.81	395	261	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - Straddle Channel

WIFI 802.11a (Harmonic @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 144 5720MHz		11440	44.01	-29.99	74	54.76	38.53	16.11	65.39	100	0	P	H
		17160	56.11	-17.89	74	59.3	42.02	18.31	63.52	100	1	P	H
		17160	47.43	-6.57	54	50.62	42.02	18.31	63.52	100	1	A	H
		11440	44	-30	74	54.75	38.53	16.11	65.39	299	360	P	V
		17160	57.31	-16.69	74	60.5	42.02	18.31	63.52	300	19	P	V
		17160	47.8	-6.2	54	50.99	42.02	18.31	63.52	306	19	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 1 - 5150~5250MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 36 5180MHz		5121.92	53.74	-20.26	74	47.4	31.2	11.84	36.7	162	0	P	H
		5149.9	44.49	-9.51	54	38.14	31.17	11.88	36.7	162	0	A	H
	*	5182	104.81	-	-	98.43	31.14	11.93	36.69	162	0	P	H
	*	5182	98.01	-	-	91.63	31.14	11.93	36.69	162	0	A	H
		5136.8	51.63	-22.37	74	45.28	31.19	11.86	36.7	367	57	P	V
	!	5148.16	49.19	-4.81	54	42.84	31.17	11.88	36.7	367	57	A	V
	*	5178	102.85	-	-	96.47	31.14	11.93	36.69	367	57	P	V
	*	5178	95.51	-	-	89.13	31.14	11.93	36.69	367	57	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 1 5150~5250MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 36 5180MHz		10360	42.59	-31.41	74	55.69	37.4	15.65	66.15	100	360	P	H
		15546	52.96	-21.04	74	61.91	39.58	16.72	65.25	100	46	P	H
		15546	44.93	-9.07	54	53.88	39.58	16.72	65.25	100	46	A	H
		10360	43.46	-30.54	74	56.56	37.4	15.65	66.15	300	360	P	V
		15534	50.52	-23.48	74	59.39	39.56	16.77	65.2	300	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 2 - 5250~5350MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 64 5320MHz	*	5324	103.71	-	-	97.3	31.01	12.09	36.69	278	1	P	H
	*	5324	96.6	-	-	90.19	31.01	12.09	36.69	278	1	A	H
		5354.8	53.92	-20.08	74	47.5	30.98	12.13	36.69	278	1	P	H
		5350.6	44.45	-9.55	54	38.03	30.98	12.13	36.69	278	1	A	H
	*	5318	99.29	-	-	92.88	31.01	12.09	36.69	302	93	P	V
	*	5318	92.62	-	-	86.21	31.01	12.09	36.69	302	93	A	V
		5361	50.56	-23.44	74	44.14	30.96	12.15	36.69	302	93	P	V
		5350.6	41.48	-12.52	54	35.06	30.98	12.13	36.69	302	93	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 2 5250~5350MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 64 5320MHz		10640	45	-29	74	57.51	37.68	15.77	65.96	300	0	P	H
		10640	44.06	-29.94	74	56.57	37.68	15.77	65.96	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - 5470~5725MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 140 5700MHz	*	5698	105	-	-	98.17	31.07	12.53	36.77	314	350	P	H
	*	5698	97.29	-	-	90.46	31.07	12.53	36.77	314	350	A	H
		5725.08	55.79	-18.21	74	48.71	31.32	12.57	36.81	314	350	P	H
	!	5727.64	49.1	-4.9	54	42.02	31.32	12.57	36.81	314	350	A	H
	*	5702	101.05	-	-	94.08	31.19	12.55	36.77	392	219	P	V
	*	5702	94.27	-	-	87.3	31.19	12.55	36.77	392	219	A	V
		5727.32	51.71	-22.29	74	44.63	31.32	12.57	36.81	392	219	P	V
		5725.24	42.77	-11.23	54	35.69	31.32	12.57	36.81	392	219	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - 5470~5725MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 140 5700MHz		11400	46.21	-27.79	74	57.03	38.49	16.1	65.41	300	360	P	H
		17094	51.45	-22.55	74	55.1	41.53	18.29	63.47	100	313	P	H
		17094	45.55	-8.45	54	49.2	41.53	18.29	63.47	100	313	A	H
		11400	45.05	-28.95	74	55.87	38.49	16.1	65.41	100	0	P	V
		17106	51.17	-22.83	74	54.82	41.53	18.29	63.47	300	36	P	V
		17106	45.86	-8.14	54	49.51	41.53	18.29	63.47	300	36	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - Straddle Channel

WIFI 802.11a (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 144 5720MHz	*	5718	106.06	-	-	98.98	31.32	12.57	36.81	300	350	P	H
	*	5718	99.21	-	-	92.13	31.32	12.57	36.81	300	350	A	H
	*	5716	103.02	-	-	96.09	31.19	12.55	36.81	394	215	P	V
	*	5716	95.96	-	-	89.03	31.19	12.55	36.81	394	215	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - Straddle Channel

WIFI 802.11a (Harmonic @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 144 5720MHz		11440	44.11	-29.89	74	54.86	38.53	16.11	65.39	100	360	P	H
		17166	51.93	-22.07	74	55.12	42.02	18.31	63.52	100	57	P	H
		17166	45.06	-8.94	54	48.25	42.02	18.31	63.52	100	57	A	H
		11440	44.24	-29.76	74	54.99	38.53	16.11	65.39	100	360	P	V
		17160	52.91	-21.09	74	56.1	42.02	18.31	63.52	359	85	P	V
		17160	44.81	-9.19	54	48	42.02	18.31	63.52	359	84	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 1 - 5150~5250MHz

WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 36 5180MHz		5146.88	54.17	-19.83	74	47.82	31.17	11.88	36.7	100	24	P	H
		5148.64	43.9	-10.1	54	37.55	31.17	11.88	36.7	100	24	A	H
	*	5182	105.16	-	-	98.78	31.14	11.93	36.69	100	24	P	H
	*	5182	98.24	-	-	91.86	31.14	11.93	36.69	100	24	A	H
		5146.24	56.17	-17.83	74	49.82	31.17	11.88	36.7	227	283	P	V
		5149.12	45.7	-8.3	54	39.35	31.17	11.88	36.7	227	283	A	V
	*	5184	108.28	-	-	101.9	31.14	11.93	36.69	227	283	P	V
	*	5184	100.87	-	-	94.49	31.14	11.93	36.69	227	283	A	V
802.11n HT20 CH 44 5220MHz		5149.44	50.62	-23.38	74	44.27	31.17	11.88	36.7	100	357	P	H
		5149.76	41.14	-12.86	54	34.79	31.17	11.88	36.7	100	357	A	H
	*	5218	105.43	-	-	99.04	31.11	11.97	36.69	100	357	P	H
	*	5218	97.95	-	-	91.56	31.11	11.97	36.69	100	357	A	H
		5385.6	49.1	-24.9	74	42.68	30.94	12.17	36.69	100	357	P	H
		5384.7	39.88	-14.12	54	33.46	30.94	12.17	36.69	100	357	A	H
		5149.99	50.53	-23.47	74	44.18	31.17	11.88	36.7	300	250	P	V
		5144.32	41.43	-12.57	54	35.08	31.17	11.88	36.7	300	250	A	V
	*	5224	103.32	-	-	96.93	31.11	11.97	36.69	300	250	P	V
	*	5224	95.8	-	-	89.41	31.11	11.97	36.69	300	250	A	V
		5376.96	50.18	-23.82	74	43.76	30.96	12.15	36.69	300	250	P	V
		5377.5	41.8	-12.2	54	35.38	30.94	12.17	36.69	300	250	A	V

802.11n HT20 CH 48 5240MHz	*	5242	104.95	-	-	98.56	31.07	12.01	36.69	100	10	P	H
	*	5242	97.79	-	-	91.4	31.07	12.01	36.69	100	10	A	H
		5376.06	49.13	-24.87	74	42.71	30.96	12.15	36.69	100	10	P	H
		5397.12	40.05	-13.95	54	33.62	30.93	12.19	36.69	100	10	A	H
	*	5240	102.68	-	-	96.29	31.09	11.99	36.69	300	254	P	V
	*	5240	95.34	-	-	88.95	31.09	11.99	36.69	300	254	A	V
		5357.34	51.92	-22.08	74	45.5	30.98	12.13	36.69	300	254	P	V
		5396.58	42.01	-11.99	54	35.58	30.93	12.19	36.69	300	254	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 1 5150~5250MHz

WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 36 5180MHz		10360	43.15	-30.85	74	56.25	37.4	15.65	66.15	300	0	P	H
		10360	44.85	-29.15	74	57.95	37.4	15.65	66.15	300	0	P	V
		15540	50.18	-23.82	74	59.05	39.56	16.77	65.2	100	360	P	V
802.11n HT20 CH 44 5220MHz		10440	43.54	-30.46	74	56.49	37.47	15.68	66.1	100	0	P	H
		10440	44.99	-29.01	74	57.94	37.47	15.68	66.1	100	360	P	V
		15654	48.7	-25.3	74	58.08	39.75	16.42	65.55	300	0	P	V
802.11n HT20 CH 48 5240MHz		10480	44.49	-29.51	74	57.34	37.52	15.7	66.07	300	360	P	H
		10485	47.5	-26.5	74	60.35	37.52	15.7	66.07	300	0	P	V
		15720	49.74	-24.26	74	59.4	39.86	16.23	65.75	100	360	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 1 5150~5250MHz

WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 38 5190MHz		5148.32	58.24	-15.76	74	51.89	31.17	11.88	36.7	100	4	P	H
	!	5149.76	49.26	-4.74	54	42.91	31.17	11.88	36.7	100	4	A	H
	*	5196	105.54	-	-	99.16	31.12	11.95	36.69	100	4	P	H
	*	5196	97.99	-	-	91.61	31.12	11.95	36.69	100	4	A	H
		5358.42	50.82	-23.18	74	44.4	30.98	12.13	36.69	100	4	P	H
		5360.22	41.74	-12.26	54	35.32	30.98	12.13	36.69	100	4	A	H
		5145.92	53.84	-20.16	74	47.49	31.17	11.88	36.7	317	111	P	V
		5148.96	45.42	-8.58	54	39.07	31.17	11.88	36.7	317	111	A	V
	*	5200	102.72	-	-	96.34	31.12	11.95	36.69	317	111	P	V
	*	5200	95.8	-	-	89.42	31.12	11.95	36.69	317	111	A	V
		5368.32	48.54	-25.46	74	42.12	30.96	12.15	36.69	317	111	P	V
		5352.66	40.28	-13.72	54	33.86	30.98	12.13	36.69	317	111	A	V
802.11n HT40 CH 46 5230MHz		5146.56	50.76	-23.24	74	44.41	31.17	11.88	36.7	300	4	P	H
		5149.44	42.76	-11.24	54	36.41	31.17	11.88	36.7	300	4	A	H
	*	5234	101.56	-	-	95.17	31.09	11.99	36.69	300	4	P	H
	*	5234	92.63	-	-	86.24	31.09	11.99	36.69	300	4	A	H
		5382.54	51.54	-22.46	74	45.12	30.94	12.17	36.69	300	4	P	H
		5387.22	41.9	-12.1	54	35.48	30.94	12.17	36.69	300	4	A	H
		5134.72	50.9	-23.1	74	44.55	31.19	11.86	36.7	300	171	P	V
		5124.8	41.76	-12.24	54	35.41	31.19	11.86	36.7	300	171	A	V
	*	5222	101.75	-	-	95.36	31.11	11.97	36.69	300	171	P	V
	*	5222	93.97	-	-	87.58	31.11	11.97	36.69	300	171	A	V
		5392.44	49.27	-24.73	74	42.85	30.94	12.17	36.69	300	171	P	V
		5352.12	40.54	-13.46	54	34.12	30.98	12.13	36.69	300	171	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 1 5150~5250MHz

WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 38 5190MHz		10380	42.74	-31.26	74	55.81	37.41	15.66	66.14	100	360	P	H
		10380	42.91	-31.09	74	55.98	37.41	15.66	66.14	300	0	P	V
802.11n HT40 CH 46 5230MHz		10460	43.98	-30.02	74	56.89	37.49	15.69	66.09	300	0	P	H
		10460	43.8	-30.2	74	56.71	37.49	15.69	66.09	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 1 5150~5250MHz

WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 42 5210MHz		5134.72	57.55	-16.45	74	51.2	31.19	11.86	36.7	100	327	P	H
	!	5127.2	48.41	-5.59	54	42.06	31.19	11.86	36.7	100	327	A	H
	*	5194	98.63	-	-	92.25	31.12	11.95	36.69	100	327	P	H
	*	5194	89.97	-	-	83.59	31.12	11.95	36.69	100	327	A	H
		5360.22	50.98	-23.02	74	44.56	30.98	12.13	36.69	100	327	P	H
		5352.48	41.88	-12.12	54	35.46	30.98	12.13	36.69	100	327	A	H
		5146.72	57.72	-16.28	74	51.37	31.17	11.88	36.7	292	114	P	V
	!	5149.99	48.33	-5.67	54	41.98	31.17	11.88	36.7	292	114	A	V
	*	5202	98.98	-	-	92.6	31.12	11.95	36.69	292	114	P	V
	*	5202	90.32	-	-	83.94	31.12	11.95	36.69	292	114	A	V
		5353.74	51.55	-22.45	74	45.13	30.98	12.13	36.69	292	114	P	V
		5350.68	41.19	-12.81	54	34.77	30.98	12.13	36.69	292	114	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 1 5150~5250MHz

WIFI 802.11ac VHT80 (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 42 5210MHz		10420	43.69	-30.31	74	56.69	37.45	15.67	66.12	300	360	P	H
		10420	42.74	-31.26	74	55.74	37.45	15.67	66.12	300	360	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 2 - 5250~5350MHz

WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 52 5260MHz		5120.32	51.15	-22.85	74	44.81	31.2	11.84	36.7	100	353	P	H
		5102.72	41.76	-12.24	54	35.42	31.22	11.82	36.7	100	353	A	H
	*	5262	106.04	-	-	99.64	31.06	12.03	36.69	100	353	P	H
	*	5262	98.89	-	-	92.49	31.06	12.03	36.69	100	353	A	H
		5135.04	51.65	-22.35	74	45.3	31.19	11.86	36.7	297	304	P	V
		5132.16	41.43	-12.57	54	35.08	31.19	11.86	36.7	297	304	A	V
	*	5258	107.09	-	-	100.7	31.07	12.01	36.69	297	304	P	V
	*	5258	96.24	-	-	89.85	31.07	12.01	36.69	297	304	A	V
802.11n HT20 CH 60 5300MHz		5141.28	49.27	-24.73	74	42.92	31.17	11.88	36.7	254	351	P	H
		5137.92	40.64	-13.36	54	34.29	31.19	11.86	36.7	254	351	A	H
	*	5298	105.03	-	-	98.63	31.02	12.07	36.69	254	351	P	H
	*	5298	97.51	-	-	91.11	31.02	12.07	36.69	254	351	A	H
		5367.7	50.97	-23.03	74	44.55	30.96	12.15	36.69	254	351	P	H
		5362.9	41.13	-12.87	54	34.71	30.96	12.15	36.69	254	351	A	H
		5142.4	49.51	-24.49	74	43.16	31.17	11.88	36.7	307	284	P	V
		5143.04	40.91	-13.09	54	34.56	31.17	11.88	36.7	307	284	A	V
	*	5302	109.16	-	-	102.76	31.02	12.07	36.69	307	284	P	V
	*	5302	102.05	-	-	95.65	31.02	12.07	36.69	307	284	A	V
		5365.6	53.71	-20.29	74	47.29	30.96	12.15	36.69	307	284	P	V
		5361.8	45.12	-8.88	54	38.7	30.96	12.15	36.69	307	284	A	V

802.11n HT20 CH 64 5320MHz	*	5316	104.18	-	-	97.77	31.01	12.09	36.69	100	61	P	H
	*	5316	96.97	-	-	90.56	31.01	12.09	36.69	100	61	A	H
		5350.6	52.11	-21.89	74	45.69	30.98	12.13	36.69	100	61	P	H
		5351	42.41	-11.59	54	35.99	30.98	12.13	36.69	100	61	A	H
	*	5324	105.48	-	-	99.07	31.01	12.09	36.69	295	285	P	V
	*	5324	97.64	-	-	91.23	31.01	12.09	36.69	295	285	A	V
		5353.4	53.43	-20.57	74	47.01	30.98	12.13	36.69	295	285	P	V
		5350.01	45.28	-8.72	54	38.86	30.98	12.13	36.69	295	285	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 2 5250~5350MHz

WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 52 5260MHz		10520	45.3	-28.7	74	58.06	37.56	15.72	66.04	299	360	P	H
		10520	47.64	-26.36	74	60.4	37.56	15.72	66.04	299	360	P	V
802.11n HT20 CH 60 5300MHz		10600	43.38	-30.62	74	55.96	37.65	15.75	65.98	300	360	P	H
		10600	44.39	-29.61	74	56.97	37.65	15.75	65.98	300	360	P	V
802.11n HT20 CH 64 5320MHz		10640	43.36	-30.64	74	55.87	37.68	15.77	65.96	300	360	P	H
		10640	44.03	-29.97	74	56.54	37.68	15.77	65.96	300	360	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 2 5250~5350MHz
WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 54 5270MHz		5122.56	50.27	-23.73	74	43.92	31.19	11.86	36.7	372	8	P	H
		5112.16	41.49	-12.51	54	35.15	31.2	11.84	36.7	372	8	A	H
	*	5280	104.71	-	-	98.31	31.04	12.05	36.69	372	8	P	H
	*	5280	87.19	-	-	80.79	31.04	12.05	36.69	372	8	A	H
		5361.66	50.97	-23.03	74	44.55	30.96	12.15	36.69	372	8	P	H
		5350.68	42.56	-11.44	54	36.14	30.98	12.13	36.69	372	8	A	H
		5106.72	50.07	-23.93	74	43.73	31.2	11.84	36.7	299	117	P	V
		5107.04	40.79	-13.21	54	34.45	31.2	11.84	36.7	299	117	A	V
	*	5264	102.39	-	-	95.99	31.06	12.03	36.69	299	117	P	V
	*	5264	95.43	-	-	89.03	31.06	12.03	36.69	299	117	A	V
		5368.32	49.48	-24.52	74	43.06	30.96	12.15	36.69	299	117	P	V
		5352.12	41.01	-12.99	54	34.59	30.98	12.13	36.69	299	117	A	V
802.11n HT40 CH 62 5310MHz		5103.52	50.79	-23.21	74	44.45	31.22	11.82	36.7	350	24	P	H
		5149.76	40.66	-13.34	54	34.31	31.17	11.88	36.7	350	24	A	H
	*	5316	102.4	-	-	95.99	31.01	12.09	36.69	350	24	P	H
	*	5316	94.7	-	-	88.29	31.01	12.09	36.69	350	24	A	H
		5352.2	60.54	-13.46	74	54.12	30.98	12.13	36.69	350	24	P	H
	!	5350.6	51.25	-2.75	54	44.83	30.98	12.13	36.69	350	24	A	H
		5147.52	49.63	-24.37	74	43.28	31.17	11.88	36.7	318	171	P	V
		5140.64	40.87	-13.13	54	34.52	31.17	11.88	36.7	318	171	A	V
	*	5314	101.6	-	-	95.19	31.01	12.09	36.69	318	171	P	V
	*	5314	93.47	-	-	87.06	31.01	12.09	36.69	318	171	A	V
		5352.1	54.2	-19.8	74	47.78	30.98	12.13	36.69	318	171	P	V
		5350.9	46.07	-7.93	54	39.65	30.98	12.13	36.69	318	171	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 2 5250~5350MHz

WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 54 5270MHz		10540	43.77	-30.23	74	56.5	37.58	15.72	66.03	100	360	P	H
		10540	43.22	-30.78	74	55.95	37.58	15.72	66.03	100	0	P	V
802.11n HT40 CH 62 5310MHz		10620	44.07	-29.93	74	56.61	37.67	15.76	65.97	300	360	P	H
		10620	43.93	-30.07	74	56.47	37.67	15.76	65.97	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 2 5250~5350MHz

WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 58 5290MHz		5132.64	50.18	-23.82	74	43.83	31.19	11.86	36.7	100	325	P	H
		5138.88	41.14	-12.86	54	34.79	31.19	11.86	36.7	100	325	A	H
	*	5286	98.72	-	-	92.32	31.04	12.05	36.69	100	325	P	H
	*	5286	89.93	-	-	83.53	31.04	12.05	36.69	100	325	A	H
		5362.4	58.41	-15.59	74	51.99	30.96	12.15	36.69	100	325	P	H
	!	5358.6	50.14	-3.86	54	43.72	30.98	12.13	36.69	100	325	A	H
		5121.44	50.12	-23.88	74	43.78	31.2	11.84	36.7	302	115	P	V
		5143.84	40.71	-13.29	54	34.36	31.17	11.88	36.7	302	115	A	V
	*	5274	98.29	-	-	91.89	31.06	12.03	36.69	302	115	P	V
	*	5274	90.02	-	-	83.62	31.06	12.03	36.69	302	115	A	V
		5353.8	58.54	-15.46	74	52.12	30.98	12.13	36.69	302	115	P	V
	!	5351.9	49.8	-4.2	54	43.38	30.98	12.13	36.69	302	115	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 2 5250~5350MHz

WIFI 802.11ac VHT80 (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 58 5290MHz		10580	42.89	-31.11	74	55.51	37.63	15.75	66	300	360	P	H
		10580	43.59	-30.41	74	56.21	37.63	15.75	66	300	360	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - 5470~5725MHz

WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 100 5500MHz		5462.64	52.78	-21.22	74	46.34	30.86	12.27	36.69	103	61	P	H
		5469.99	42.52	-11.48	54	36.08	30.86	12.27	36.69	103	61	A	H
	*	5502	101.71	-	-	95.24	30.83	12.32	36.68	103	61	P	H
	*	5502	94.5	-	-	88.03	30.83	12.32	36.68	103	61	A	H
		5460.24	56.03	-17.97	74	49.59	30.88	12.25	36.69	104	226	P	V
		5469.99	45.51	-8.49	54	39.07	30.86	12.27	36.69	104	226	A	V
	*	5504	106.18	-	-	99.71	30.83	12.32	36.68	104	226	P	V
	*	5504	99.11	-	-	92.64	30.83	12.32	36.68	104	226	A	V
802.11n HT20 CH 116 5580MHz		5421.84	49.38	-24.62	74	42.95	30.91	12.21	36.69	100	61	P	H
		5418.16	40.64	-13.36	54	34.21	30.91	12.21	36.69	100	61	A	H
	*	5584	102.7	-	-	96.21	30.75	12.42	36.68	100	61	P	H
	*	5584	95.62	-	-	89.13	30.75	12.42	36.68	100	61	A	H
		5742.44	49.62	-24.38	74	42.44	31.44	12.59	36.85	100	61	P	H
		5737.16	40.64	-13.36	54	33.46	31.44	12.59	36.85	100	61	A	H
		5469.04	50.44	-23.56	74	44	30.86	12.27	36.69	100	217	P	V
		5422.8	41.5	-12.5	54	35.07	30.91	12.21	36.69	100	217	A	V
	*	5576	107.76	-	-	101.28	30.76	12.4	36.68	100	217	P	V
	*	5576	100.39	-	-	93.91	30.76	12.4	36.68	100	217	A	V
		5739.64	50.31	-23.69	74	43.13	31.44	12.59	36.85	100	217	P	V
		5737.16	41.34	-12.66	54	34.16	31.44	12.59	36.85	100	217	A	V

802.11n HT20 CH 140 5700MHz	*	5704	103.52	-	-	96.55	31.19	12.55	36.77	101	63	P	H
	*	5704	96.36	-	-	89.39	31.19	12.55	36.77	101	63	A	H
		5726.52	57.79	-16.21	74	50.71	31.32	12.57	36.81	101	63	P	H
		5725.01	47.93	-6.07	54	40.85	31.32	12.57	36.81	101	63	A	H
	*	5704	107.72	-	-	100.75	31.19	12.55	36.77	100	217	P	V
	*	5704	100.63	-	-	93.66	31.19	12.55	36.77	100	217	A	V
		5729.08	60.37	-13.63	74	53.29	31.32	12.57	36.81	100	217	P	V
	!	5725.01	51.82	-2.18	54	44.74	31.32	12.57	36.81	100	217	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - 5470~5725MHz

WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 100 5500MHz		11000	43.91	-30.09	74	55.63	38.06	15.92	65.7	100	360	P	H
		16506	51.06	-22.94	74	58.59	40.55	16.87	64.95	300	360	P	H
		16506	43.98	-10.02	54	51.51	40.55	16.87	64.95	100	7	A	H
		11000	43.85	-30.15	74	55.57	38.06	15.92	65.7	100	360	P	V
		16506	50.31	-23.69	74	57.84	40.55	16.87	64.95	300	0	P	V
802.11n HT20 CH 116 5580MHz		11160	43.92	-30.08	74	55.27	38.24	15.99	65.58	100	0	P	H
		16746	56.89	-17.11	74	62.88	40.67	17.54	64.2	100	3	P	H
	!	16746	48.52	-5.48	54	54.51	40.67	17.54	64.2	100	3	A	H
		11160	44.36	-29.64	74	55.71	38.24	15.99	65.58	100	0	P	V
		16740	55.63	-18.37	74	61.62	40.67	17.54	64.2	300	15	P	V
		16740	47.82	-6.18	54	53.81	40.67	17.54	64.2	300	15	A	V
802.11n HT20 CH 140 5700MHz		11400	45.18	-28.82	74	56	38.49	16.1	65.41	300	0	P	H
		17100	56.87	-17.13	74	60.52	41.53	18.29	63.47	100	310	P	H
	!	17100	48.25	-5.75	54	51.9	41.53	18.29	63.47	100	321	A	H
		11400	46.47	-27.53	74	57.29	38.49	16.1	65.41	100	0	P	V
		17100	55.95	-18.05	74	59.6	41.53	18.29	63.47	344	16	P	V
	!	17100	48.57	-5.43	54	52.22	41.53	18.29	63.47	344	16	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - 5470~5725MHz
WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 102 5510MHz		5470	55.17	-18.83	74	48.73	30.86	12.27	36.69	100	318	P	H
		5469.84	47.92	-6.08	54	41.48	30.86	12.27	36.69	100	318	A	H
	*	5516	101.52	-	-	95.05	30.81	12.34	36.68	100	318	P	H
	*	5516	93.78	-	-	87.31	30.81	12.34	36.68	100	318	A	H
		5747.88	49.26	-24.74	74	42.08	31.44	12.59	36.85	100	318	P	H
		5754.84	41.01	-12.99	54	33.7	31.56	12.6	36.85	100	318	A	H
		5468.88	54.96	-19.04	74	48.52	30.86	12.27	36.69	313	141	P	V
		5469.84	47.67	-6.33	54	41.23	30.86	12.27	36.69	313	141	A	V
	*	5498	99.46	-	-	93	30.83	12.32	36.69	313	141	P	V
	*	5498	92.15	-	-	85.69	30.83	12.32	36.69	313	141	A	V
		5749.32	49.12	-24.88	74	41.94	31.44	12.59	36.85	313	141	P	V
		5764.12	40.56	-13.44	54	33.3	31.56	12.6	36.9	313	141	A	V
802.11n HT40 CH 110 5550MHz		5462.96	52.43	-21.57	74	45.99	30.86	12.27	36.69	397	351	P	H
		5466	43.25	-10.75	54	36.81	30.86	12.27	36.69	397	351	A	H
	*	5556	104.6	-	-	98.12	30.78	12.38	36.68	397	351	P	H
	*	5556	95.96	-	-	89.48	30.78	12.38	36.68	397	351	A	H
		5757.24	49.44	-24.56	74	42.18	31.56	12.6	36.9	397	351	P	H
		5725.56	40.92	-13.08	54	33.84	31.32	12.57	36.81	397	351	A	H
		5458.96	49.98	-24.02	74	43.54	30.88	12.25	36.69	303	102	P	V
		5467.76	41.65	-12.35	54	35.21	30.86	12.27	36.69	303	102	A	V
	*	5542	99.59	-	-	93.11	30.8	12.36	36.68	303	102	P	V
	*	5542	91.73	-	-	85.25	30.8	12.36	36.68	303	102	A	V
		5743.16	49.8	-24.2	74	42.62	31.44	12.59	36.85	303	102	P	V
		5751.96	40.5	-13.5	54	33.19	31.56	12.6	36.85	303	102	A	V

802.11n HT40 CH 134 5670MHz		5437.2	50.66	-23.34	74	44.23	30.89	12.23	36.69	399	353	P	H
		5427.12	42.2	-11.8	54	35.77	30.91	12.21	36.69	399	353	A	H
	*	5672	104.54	-	-	97.79	30.95	12.52	36.72	399	353	P	H
	*	5672	96.78	-	-	90.03	30.95	12.52	36.72	399	353	A	H
		5730.28	51.75	-22.25	74	44.71	31.32	12.57	36.85	399	353	P	H
		5725.16	43.89	-10.11	54	36.81	31.32	12.57	36.81	399	353	A	H
		5430.8	49.19	-24.81	74	42.76	30.89	12.23	36.69	314	193	P	V
		5434.32	40.82	-13.18	54	34.39	30.89	12.23	36.69	314	193	A	V
	*	5664	99.86	-	-	93.26	30.82	12.5	36.72	314	193	P	V
	*	5664	92.73	-	-	86.13	30.82	12.5	36.72	314	193	A	V
		5731.08	51	-23	74	43.96	31.32	12.57	36.85	314	193	P	V
		5735.64	41.59	-12.41	54	34.41	31.44	12.59	36.85	314	193	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - 5470~5725MHz

WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 102 5510MHz		11020	44.45	-29.55	74	56.13	38.08	15.93	65.69	300	360	P	H
		11020	45.22	-28.78	74	56.9	38.08	15.93	65.69	300	360	P	V
802.11n HT40 CH 110 5550MHz		11100	45.46	-28.54	74	56.96	38.17	15.96	65.63	300	360	P	H
		16650	53.66	-20.34	74	60.19	40.63	17.3	64.46	100	0	P	H
		16650	44.72	-9.28	54	51.25	40.63	17.3	64.46	100	7	A	H
		11100	44.2	-29.8	74	55.7	38.17	15.96	65.63	100	0	P	V
		16650	49.07	-24.93	74	55.6	40.63	17.3	64.46	300	360	P	V
802.11n HT40 CH 134 5670MHz		11340	44.69	-29.31	74	55.66	38.42	16.07	65.46	300	360	P	H
		11340	44.76	-29.24	74	55.73	38.42	16.07	65.46	300	360	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - 5470~5725MHz

WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 106 5530MHz		5468.4	59.23	-14.77	74	52.79	30.86	12.27	36.69	100	350	P	H
	!	5468.24	51.55	-2.45	54	45.11	30.86	12.27	36.69	100	350	A	H
	*	5526	100.51	-	-	94.04	30.81	12.34	36.68	100	350	P	H
	*	5526	91.19	-	-	84.72	30.81	12.34	36.68	100	350	A	H
		5764.6	49.19	-24.81	74	41.93	31.56	12.6	36.9	100	350	P	H
		5752.68	40.78	-13.22	54	33.47	31.56	12.6	36.85	100	350	A	H
		5466.48	59.19	-14.81	74	52.75	30.86	12.27	36.69	270	99	P	V
	!	5468.88	50.52	-3.48	54	44.08	30.86	12.27	36.69	270	99	A	V
	*	5522	97.89	-	-	91.42	30.81	12.34	36.68	270	99	P	V
	*	5522	88.79	-	-	82.32	30.81	12.34	36.68	270	99	A	V
		5761.4	48.97	-25.03	74	41.71	31.56	12.6	36.9	270	99	P	V
		5763.4	40.42	-13.58	54	33.16	31.56	12.6	36.9	270	99	A	V
802.11ac VHT80 CH 122 5610MHz		5455.76	50.84	-23.16	74	44.4	30.88	12.25	36.69	100	351	P	H
		5466.32	41.75	-12.25	54	35.31	30.86	12.27	36.69	100	351	A	H
	*	5606	100.13	-	-	93.64	30.73	12.44	36.68	100	351	P	H
	*	5606	91.74	-	-	85.25	30.73	12.44	36.68	100	351	A	H
		5736.12	50.57	-23.43	74	43.39	31.44	12.59	36.85	100	351	P	H
		5750.84	41.78	-12.22	54	34.6	31.44	12.59	36.85	100	351	A	H
		5449.84	49.76	-24.24	74	43.32	30.88	12.25	36.69	319	196	P	V
		5468.72	41.28	-12.72	54	34.84	30.86	12.27	36.69	319	196	A	V
	*	5596	98.71	-	-	92.22	30.75	12.42	36.68	319	196	P	V
	*	5596	90.29	-	-	83.8	30.75	12.42	36.68	319	196	A	V
		5727.48	49.9	-24.1	74	42.82	31.32	12.57	36.81	319	196	P	V
		5728.44	41.58	-12.42	54	34.5	31.32	12.57	36.81	319	196	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 5470~5725MHz

WIFI 802.11ac VHT80 (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 106 5530MHz		11060	44.33	-29.67	74	55.91	38.13	15.95	65.66	300	360	P	H
		11060	45.11	-28.89	74	56.69	38.13	15.95	65.66	300	360	P	V
802.11ac VHT80 CH 122 5610MHz		11220	45.45	-28.55	74	56.69	38.29	16.02	65.55	300	360	P	H
		11220	44.17	-29.83	74	55.41	38.29	16.02	65.55	300	360	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - Straddle Channel

WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 144 5720MHz	*	5722	104.27	-	-	97.19	31.32	12.57	36.81	300	118	P	H
	*	5722	92.62	-	-	85.54	31.32	12.57	36.81	300	118	A	H
	*	5720	107.43	-	-	100.35	31.32	12.57	36.81	100	255	P	V
	*	5720	95.72	-	-	88.64	31.32	12.57	36.81	100	255	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - Straddle Channel

WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 144 5720MHz		11440	45.22	-28.78	74	55.97	38.53	16.11	65.39	100	360	P	H
		17166	53.81	-20.19	74	57	42.02	18.31	63.52	100	179	P	H
	!	17166	50.81	-3.19	54	54	42.02	18.31	63.52	100	178	A	H
		11440	43.34	-30.66	74	54.09	38.53	16.11	65.39	100	0	P	V
		17154	52.56	-21.44	74	55.86	41.9	18.3	63.5	100	204	P	V
		17154	45.9	-8.1	54	49.2	41.9	18.3	63.5	100	204	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - Straddle Channel
WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n	*	5702	105.36	-	-	98.39	31.19	12.55	36.77	310	355	P	H
HT40	*	5702	97.45	-	-	90.48	31.19	12.55	36.77	310	355	A	H
CH 142	*	5716	101.62	-	-	94.69	31.19	12.55	36.81	307	201	P	V
5710MHz	*	5716	94.67	-	-	87.74	31.19	12.55	36.81	307	201	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - Straddle Channel
WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n		11420	45.09	-28.91	74	55.88	38.51	16.1	65.4	300	360	P	H
HT40		11420	44.92	-29.08	74	55.71	38.51	16.1	65.4	300	360	P	V
CH 142		17124	48.67	-25.33	74	52.21	41.65	18.29	63.48	300	16	P	V
5710MHz		17124	45.57	-8.43	54	49.11	41.65	18.29	63.48	300	16	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - Straddle Channel
WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 138 5690MHz	*	5676	102.96	-	-	96.21	30.95	12.52	36.72	354	352	P	H
	*	5676	94.6	-	-	87.85	30.95	12.52	36.72	354	352	A	H
	*	5686	99.31	-	-	92.48	31.07	12.53	36.77	312	200	P	V
	*	5686	90.85	-	-	84.02	31.07	12.53	36.77	312	200	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - Straddle Channel
WIFI 802.11ac VHT80 (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 138 5690MHz		11380	44.66	-29.34	74	55.52	38.47	16.09	65.42	300	0	P	H
		11380	45.89	-28.11	74	56.75	38.47	16.09	65.42	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Emission below 1GHz

WIFI 802.11n HT20 (LF @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 LF		37.76	32.29	-7.71	40	39.44	24.2	0.9	32.25	100	30	P	H
		74.62	29.88	-10.12	40	45.92	14.9	1.27	32.21	-	-	P	H
		112.45	29.71	-13.79	43.5	41.84	18.62	1.52	32.27	-	-	P	H
		166.77	27.37	-16.13	43.5	40.41	17.33	1.9	32.27	-	-	P	H
		249.22	25.87	-20.13	46	38.42	17.2	2.34	32.09	-	-	P	H
		296.75	26.14	-19.86	46	36.3	19.36	2.55	32.07	-	-	P	H
		38.73	31.89	-8.11	40	39.5	23.7	0.92	32.23	150	100	P	V
		58.13	30.21	-9.79	40	46.68	14.64	1.1	32.21	-	-	P	V
		74.62	31.19	-8.81	40	47.23	14.9	1.27	32.21	-	-	P	V
		223.03	27.88	-18.12	46	40.77	17.09	2.2	32.18	-	-	P	V
		597.45	28.97	-17.03	46	32.76	24.24	3.66	31.69	-	-	P	V
		906.88	35.51	-10.49	46	33.37	29	4.58	31.44	-	-	P	V
Remark	1. No other spurious found. 2. All results are PASS against limit line.												

For Sample 2

Band 3 - 5470~5725MHz

WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 140 5700MHz	*	5704	105.88	-	-	98.93	30.75	8.58	32.38	100	351	P	H
	*	5704	97.01	-	-	90.06	30.75	8.58	32.38	100	351	A	H
		5726.12	59.86	-14.14	74	52.82	30.89	8.58	32.43	100	351	P	H
		5725	48.94	-5.06	54	41.9	30.89	8.58	32.43	100	351	A	H
	*	5702	102.95	-	-	96	30.75	8.58	32.38	300	118	P	V
	*	5702	94.56	-	-	87.61	30.75	8.58	32.38	300	118	A	V
		5725.88	60.96	-13.04	74	53.92	30.89	8.58	32.43	300	118	P	V
	!	5725.08	45.8	-8.2	54	38.76	30.89	8.58	32.43	300	118	A	V
Remark	3. No other spurious found. 4. All results are PASS against Peak and Average limit line.												

Band 3 - 5470~5725MHz

WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 140 5700MHz		11400	46.23	-27.77	74	56.5	39.41	12.99	62.67	100	360	P	H
		17106	55.22	-18.78	74	61.69	42.53	15.05	64.05	100	3	P	H
	!	17106	47.83	-6.17	54	54.3	42.53	15.05	64.05	100	3	A	H
		11400	46.59	-27.41	74	56.86	39.41	12.99	62.67	100	360	P	V
		17094	54.1	-19.9	74	60.57	42.53	15.05	64.05	100	120	P	V
	!	17094	48.08	-5.92	54	54.55	42.53	15.05	64.05	100	120	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - 5470~5725MHz

Emission below 1GHz

WIFI 802.11n HT20 (LF @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 LF		30	29.99	-10.01	40	34.22	26.3	0.57	31.1	127	244	P	H
		70.74	24.78	-15.22	40	41.57	13.72	0.89	31.4	-	-	P	H
		93.05	26.54	-16.96	43.5	39.07	17.14	1.05	30.72	-	-	P	H
		171.62	25.62	-17.88	43.5	38.58	16.61	1.42	30.99	-	-	P	H
		249.22	25.87	-20.13	46	37.49	17.86	1.72	31.2	-	-	P	H
		895.24	32.33	-13.67	46	30.99	29.04	3.41	31.11	-	-	P	H
		30	32.71	-7.29	40	36.94	26.3	0.57	31.1	100	37	P	V
		58.13	31.21	-8.79	40	49.18	12.76	0.83	31.56	-	-	P	V
		69.77	27.21	-12.79	40	44.22	13.5	0.89	31.4	-	-	P	V
		92.08	26.38	-17.12	43.5	38.95	17.06	1.05	30.68	-	-	P	V
		180.35	22.43	-21.07	43.5	35.66	16.33	1.46	31.02	-	-	P	V
		910.76	34.83	-11.17	46	33.19	29.34	3.44	31.14	-	-	P	V
Remark	3. No other spurious found. 4. All results are PASS against limit line.												

Note symbol

*	**Fundamental Frequency** which can be ignored. However, the level of any unwanted emissions shall not exceed the level of the fundamental frequency.
!	Test result is **not under limit 6dB**
P/A	**P**eak or **A**verage
H/V	**H**orizontal or **V**ertical

A calculation example for radiated spurious emission is shown as below:

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b CH 01 2412MHz		2390	55.45	-18.55	74	54.51	32.22	4.58	35.86	103	308	P	H
		2390	43.54	-10.46	54	42.6	32.22	4.58	35.86	103	308	A	H

1. Level(dBμV/m) =

Antenna Factor(dB/m) + Cable Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)

2. Over Limit(dB) = Level(dBμV/m) – Limit Line(dBμV/m)

For Peak Limit @ 2390MHz:

1. Level(dBμV/m)

= Antenna Factor(dB/m) + Cable Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)

= 32.22(dB/m) + 4.58(dB) + 54.51(dBμV) – 35.86 (dB)

= 55.45 (dBμV/m)

2. Over Limit(dB)

= Level(dBμV/m) – Limit Line(dBμV/m)

= 55.45(dBμV/m) – 74(dBμV/m)

= -18.55(dB)

For Average Limit @ 2390MHz:

1. Level(dBμV/m)

= Antenna Factor(dB/m) + Cable Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)

= 32.22(dB/m) + 4.58(dB) + 42.6(dBμV) – 35.86 (dB)

= 43.54 (dBμV/m)

2. Over Limit(dB)

= Level(dBμV/m) – Limit Line(dBμV/m)

= 43.54(dBμV/m) – 54(dBμV/m)

= -10.46(dB)

Both peak and average measured complies with the limit line, so test result is “PASS”.

Appendix C. Radiated Spurious Emission

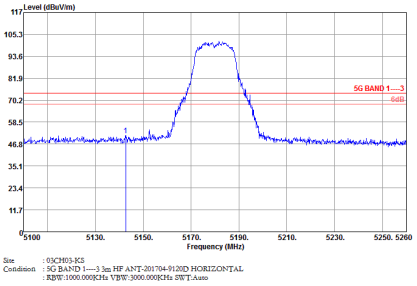
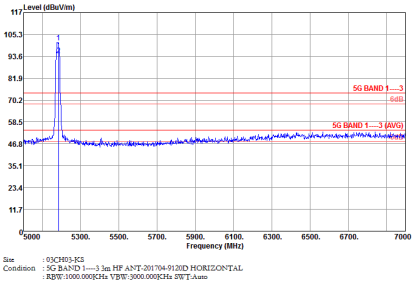
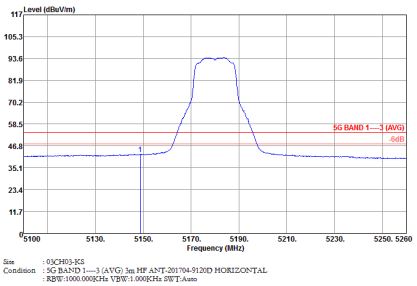
Note symbol

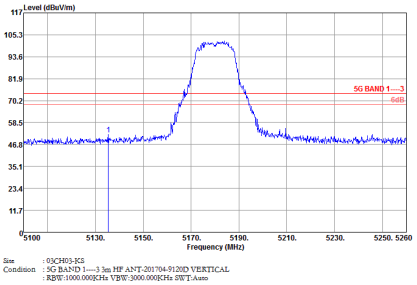
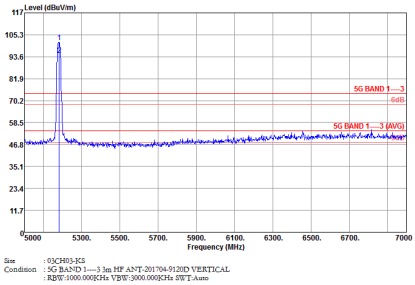
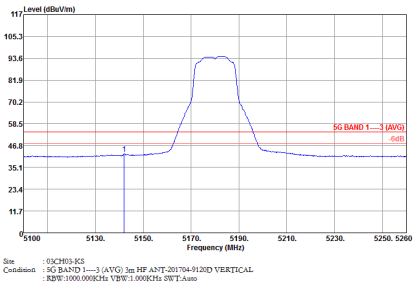
-L	**Low channel location**
-R	**High channel location**

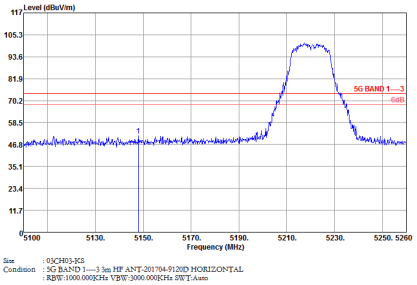
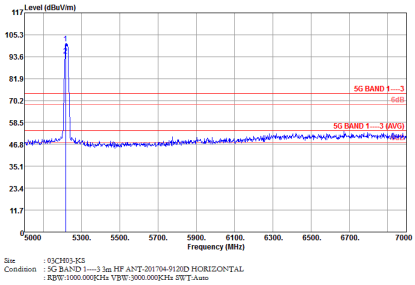
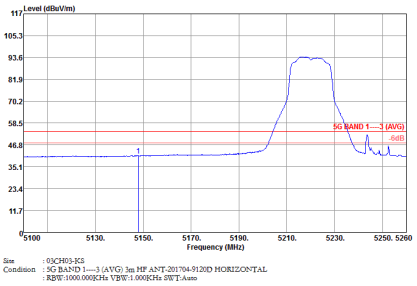
For Sample 1

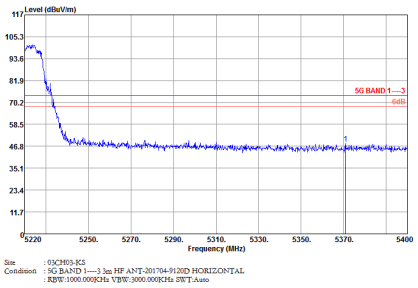
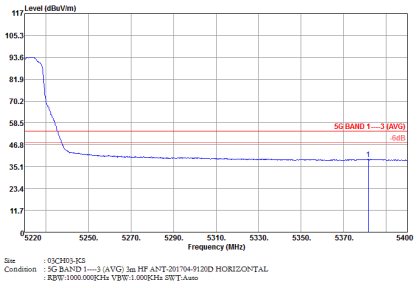
Band 1 - 5150~5250MHz

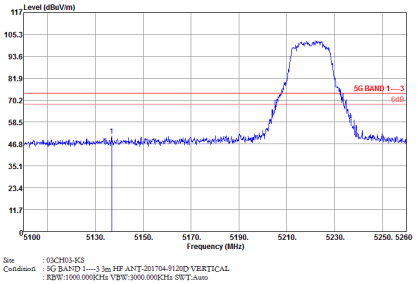
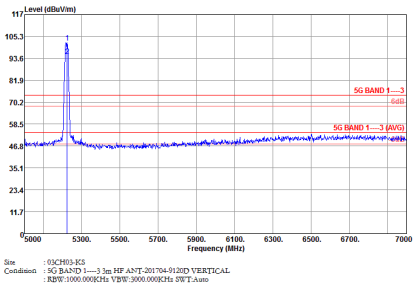
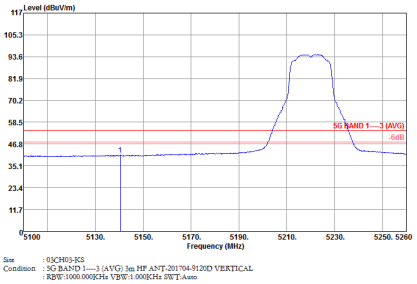
WIFI 802.11a (Band Edge @ 3m)

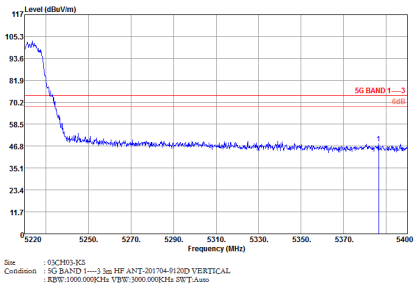
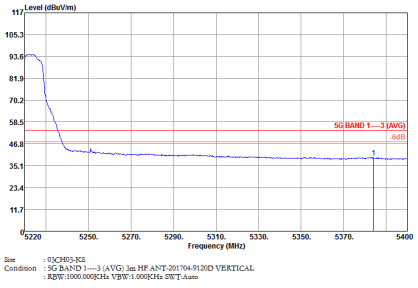
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH36 5180MHz	
2	Horizontal	Fundamental
Peak		
Avg.		

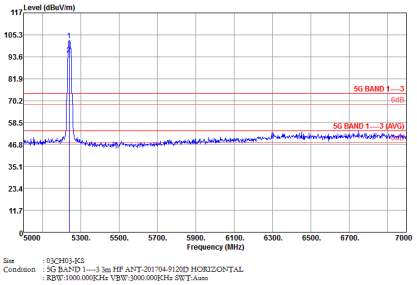
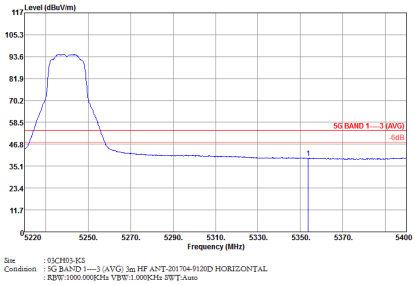
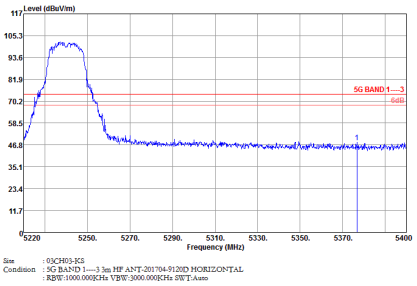
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH36 5180MHz	
2	Vertical	Fundamental
Peak		
Avg.		

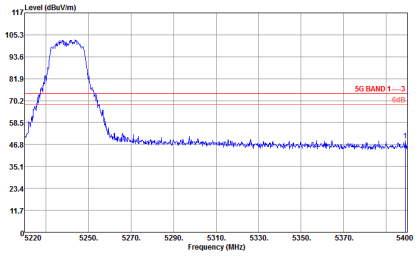
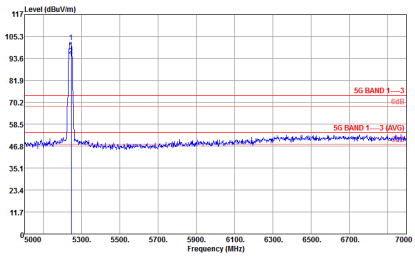
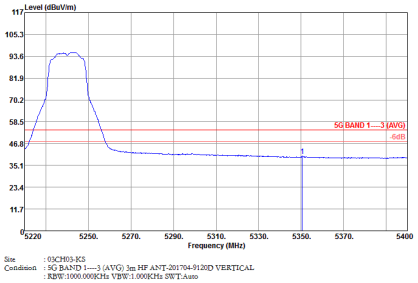
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - L	
2	Horizontal	Fundamental
Peak		
Avg.		

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - R	
2	Horizontal	Fundamental
Peak		
Avg.		

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - L	
2	Vertical	Fundamental
Peak		
Avg.		

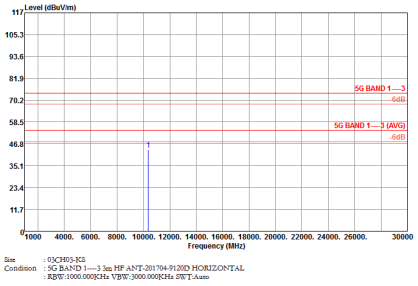
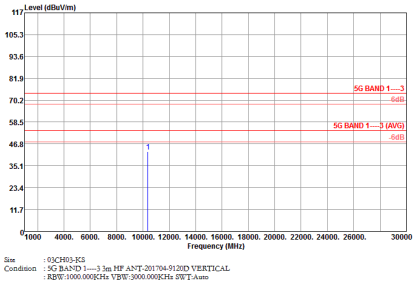
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - R	
2	Vertical	Fundamental
Peak		
Avg.		

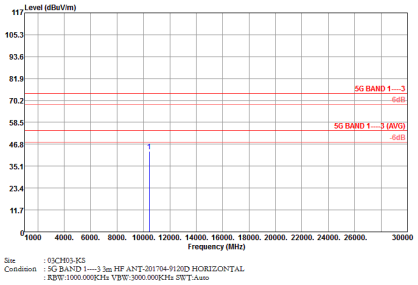
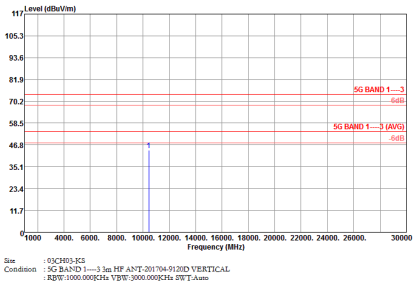
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz	
2	Horizontal	Fundamental
Peak		
Avg.		

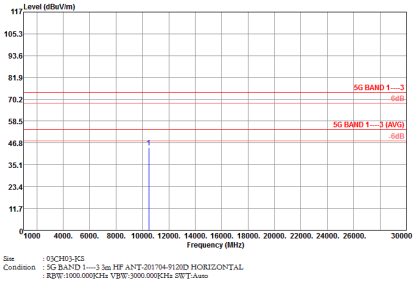
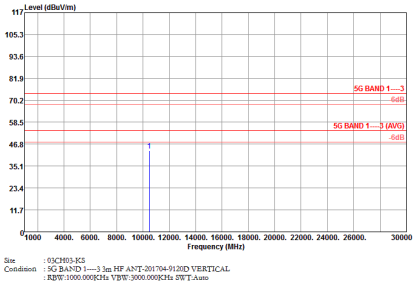
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz	
2	Vertical	Fundamental
Peak		
Avg.		

Band 1 - 5150~5250MHz

WIFI 802.11a (Harmonic @ 3m)

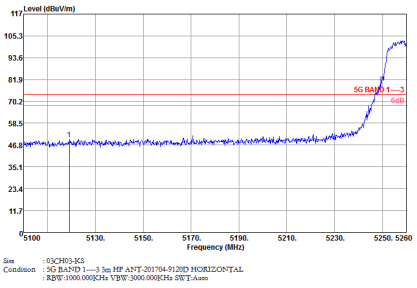
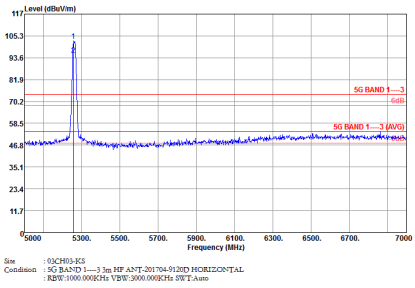
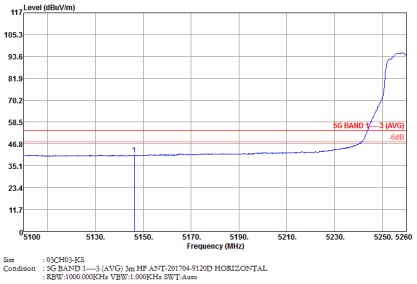
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11a CH36 5180MHz	
2	Horizontal	Vertical
Peak Avg.		

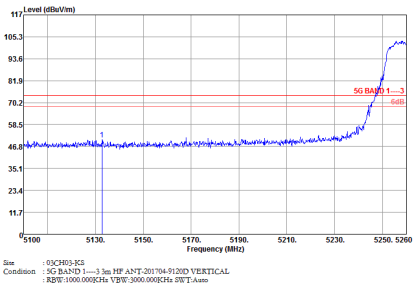
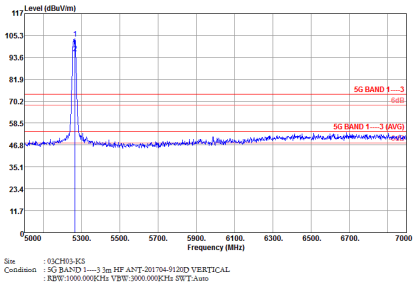
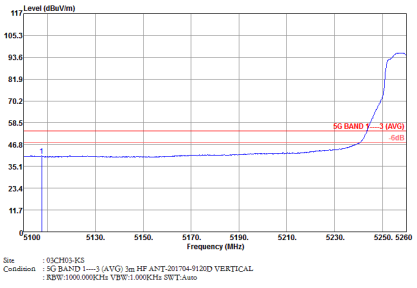
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11a CH44 5220MHz	
2	Horizontal	Vertical
Peak Avg.		

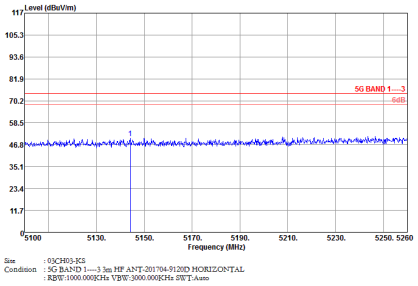
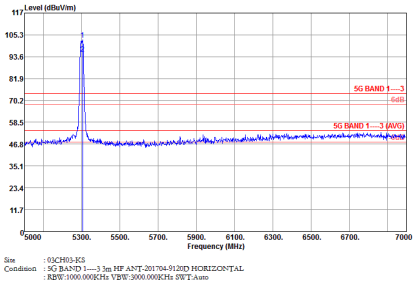
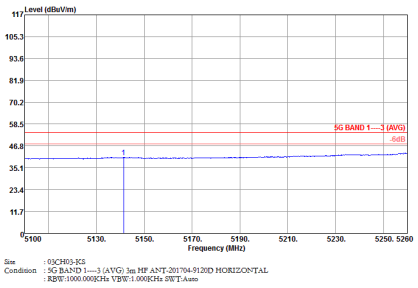
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11a CH48 5240MHz	
2	Horizontal	Vertical
Peak Avg.		

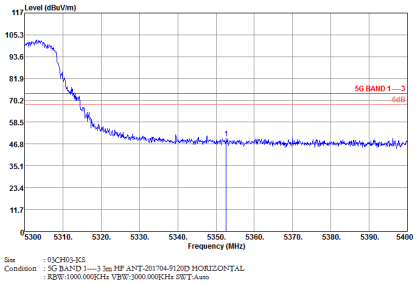
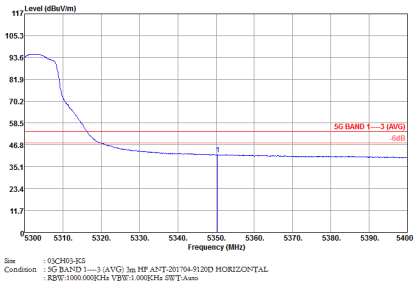
Band 2 - 5250~5350MHz

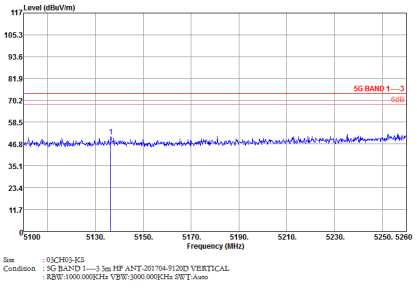
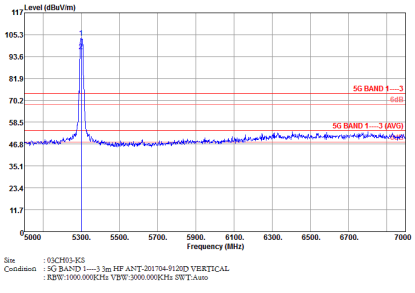
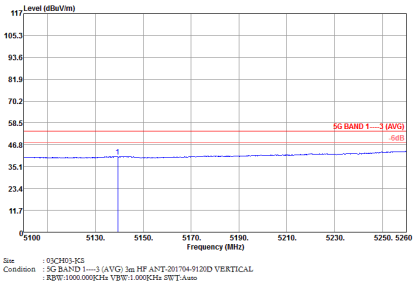
WIFI 802.11a (Band Edge @ 3m)

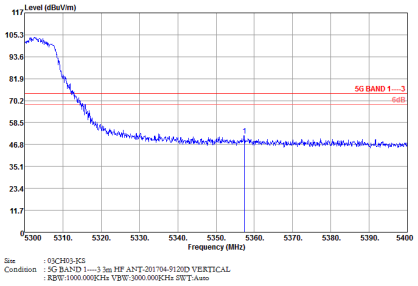
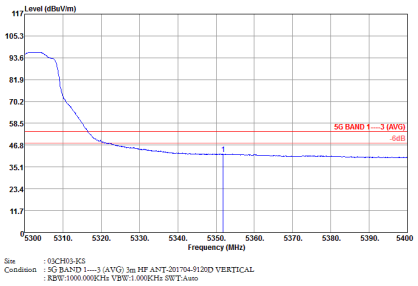
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - L	
2	Horizontal	Fundamental
Peak		
Avg.		

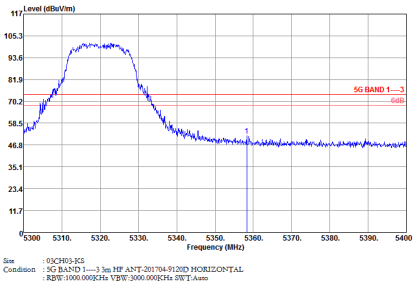
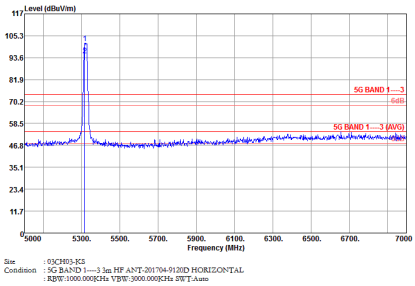
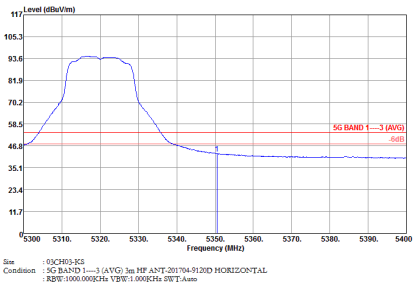
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - L	
2	Vertical	Fundamental
Peak		
Avg.		

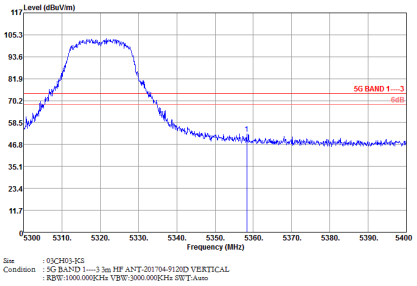
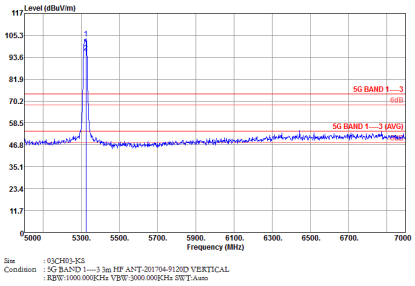
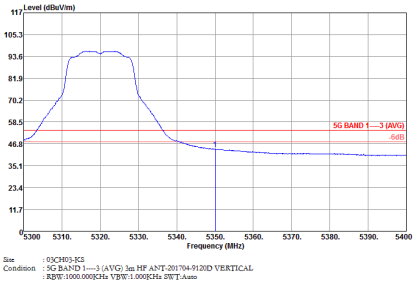
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH60 5300MHz - L	
2	Horizontal	Fundamental
Peak		
Avg.		

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH60 5300MHz - R	
2	Horizontal	Fundamental
Peak		
Avg.		

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH60 5300MHz - L	
2	Vertical	Fundamental
Peak		
Avg.		

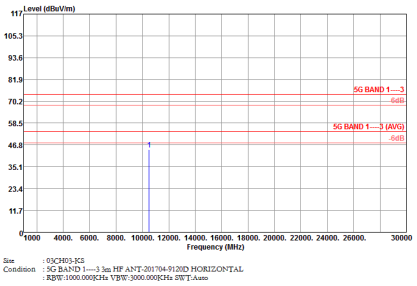
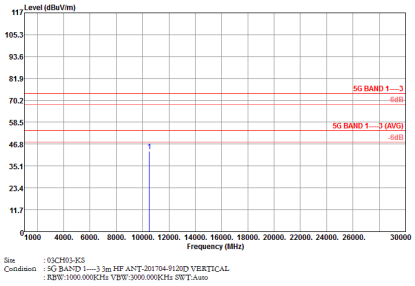
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH60 5300MHz - R	
2	Vertical	Fundamental
Peak		
Avg.		

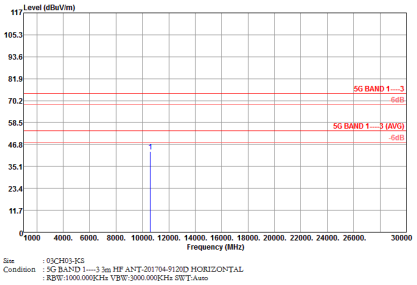
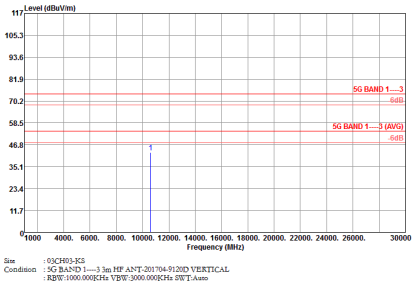
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH64 5320MHz	
2	Horizontal	Fundamental
Peak		
Avg.		

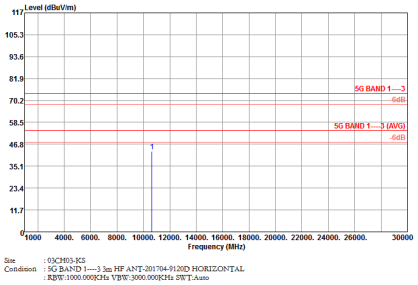
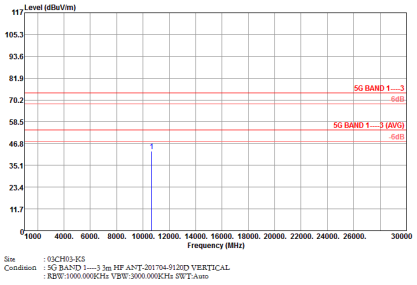
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH64 5320MHz	
2	Vertical	Fundamental
Peak		
Avg.		

Band 2 - 5250~5350MHz

WIFI 802.11a (Harmonic @ 3m)

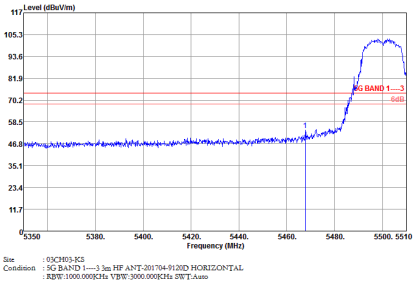
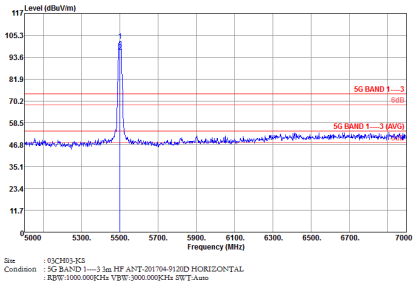
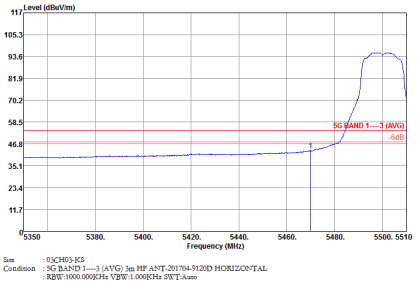
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11a CH52 5260MHz	
2	Horizontal	Vertical
Peak Avg.		

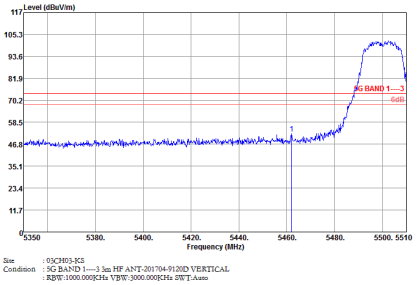
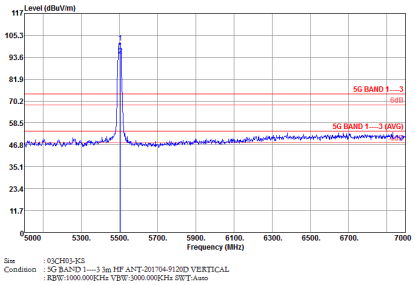
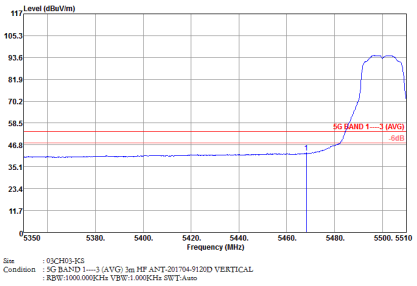
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11a CH60 5300MHz	
2	Horizontal	Vertical
Peak Avg.		

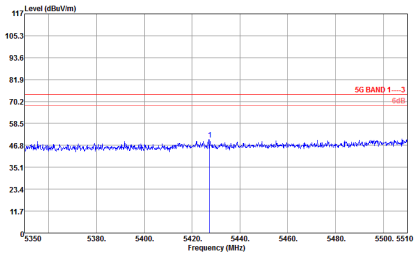
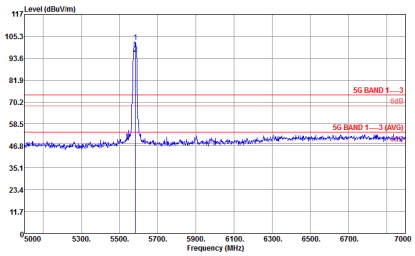
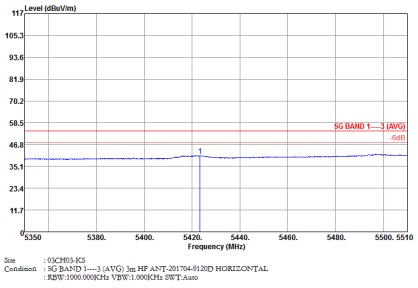
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11a CH64 5320MHz	
2	Horizontal	Vertical
Peak Avg.		

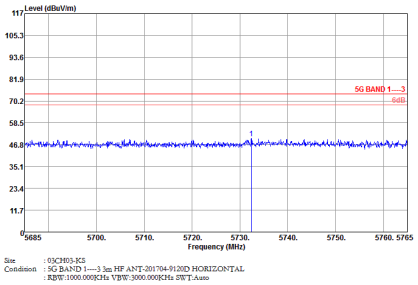
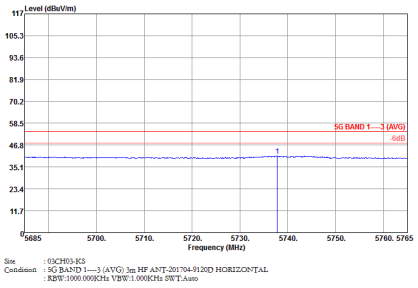
Band 3 - 5470~5725MHz

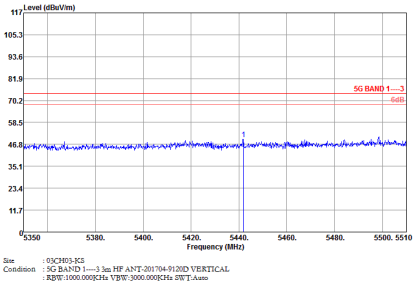
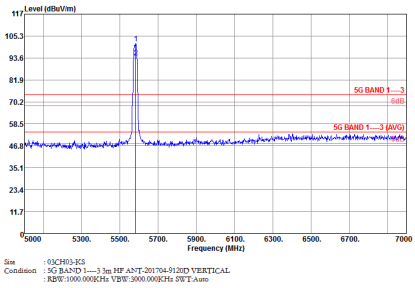
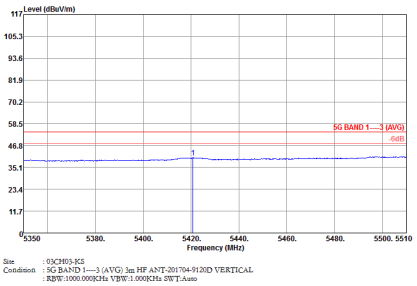
WIFI 802.11a (Band Edge @ 3m)

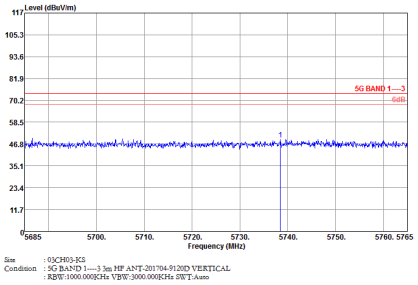
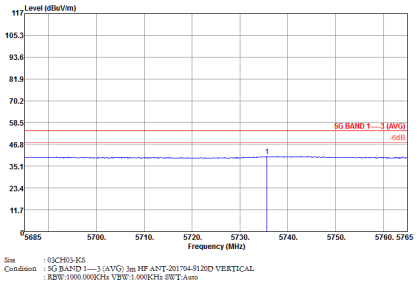
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH100 5500MHz	
2	Horizontal	Fundamental
Peak		
Avg.		

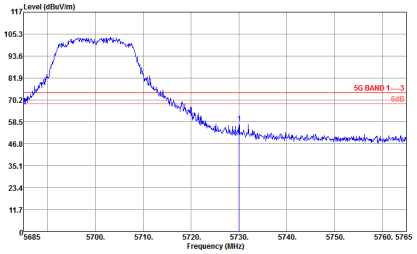
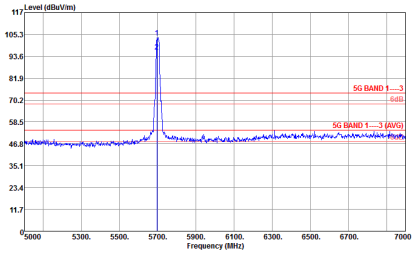
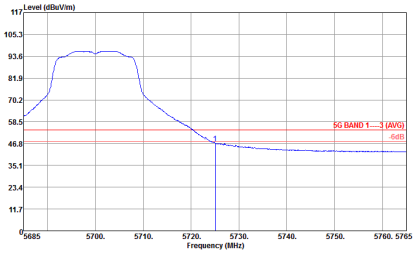
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH100 5500MHz	
2	Vertical	Fundamental
Peak		
Avg.		

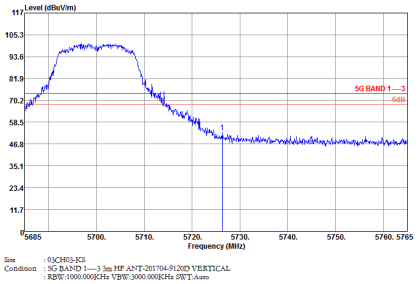
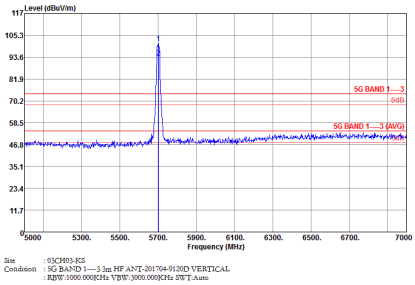
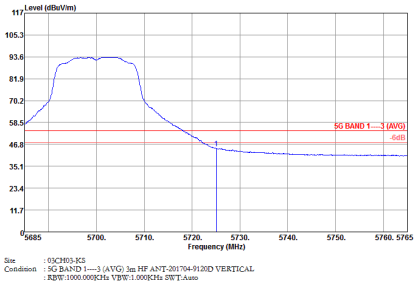
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH116 5580MHz - L	
2	Horizontal	Fundamental
Peak		
Avg.		

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH116 5580MHz - L	
2	Horizontal	Fundamental
Peak		
Avg.		

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH116 5580MHz - L	
2	Vertical	Fundamental
Peak		
Avg.		

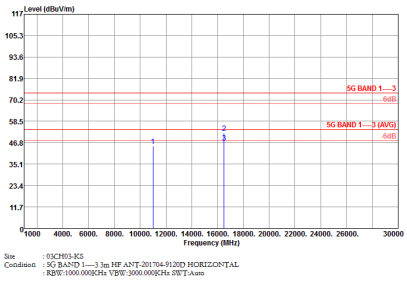
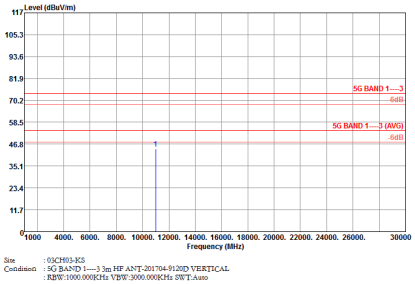
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH116 5580MHz - R	
2	Horizontal	Fundamental
Peak		
Avg.		

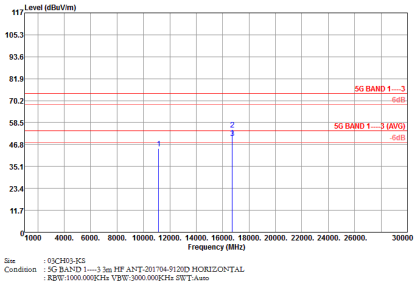
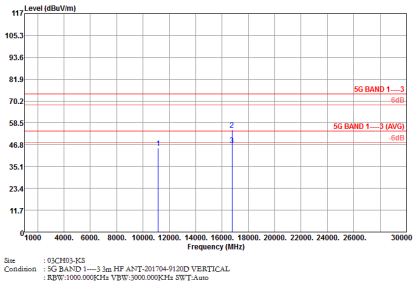
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH140 5700MHz -	
2	Horizontal	Fundamental
Peak	 Site : 03CH03-KS Condition : 5G BAND 1---3 3m HF ANT-201704-9120D HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH03-KS Condition : 5G BAND 1---3 3m HF ANT-201704-9120D HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH03-KS Condition : 5G BAND 1---3 (AVG) 3m HF ANT-201704-9120D HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto	

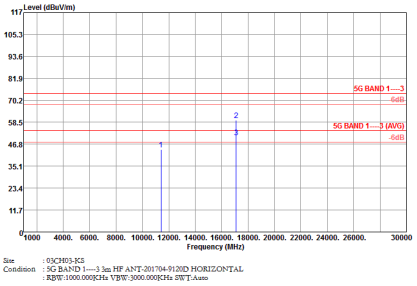
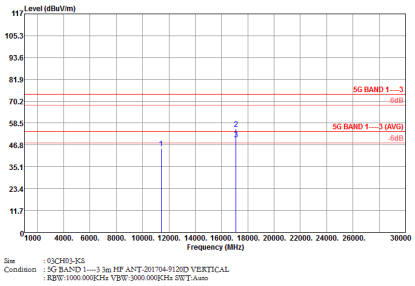
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH140 5700MHz -	
2	Vertical	Fundamental
Peak		
Avg.		

Band 3 - 5470~5725MHz

WIFI 802.11a (Harmonic @ 3m)

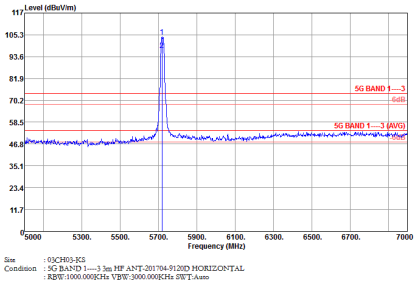
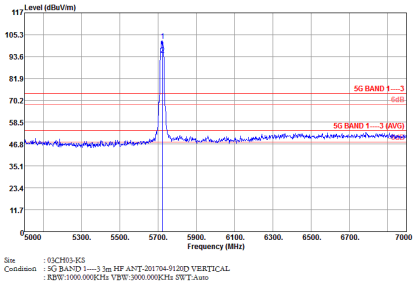
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11a CH100 5500MHz	
2	Horizontal	Vertical
Peak Avg.		

WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11a CH116 5580MHz	
2	Horizontal	Vertical
Peak Avg.		

WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11a CH140 5700MHz	
2	Horizontal	Vertical
Peak Avg.		

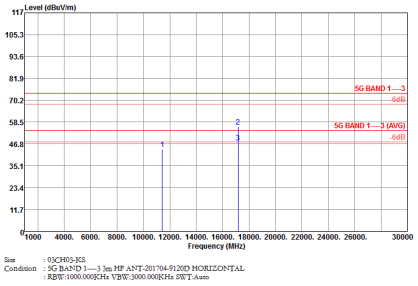
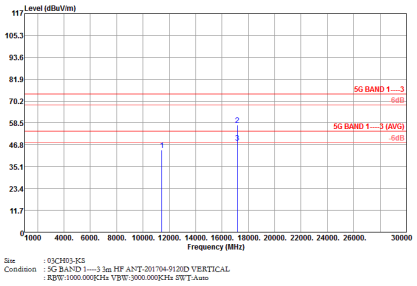
Band 3 - Straddle Channel

WIFI 802.11a (Fundamental @ 3m)

WIFI	Band 3 Straddle Channel Fundamental @ 3m	
ANT	802.11a CH144 5720MHz	
2	Horizontal	Vertical
Peak Avg.		

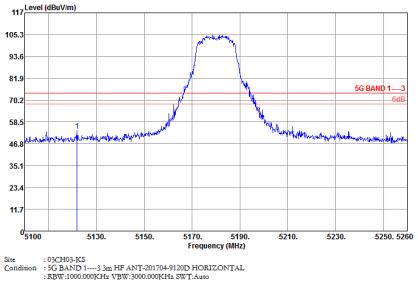
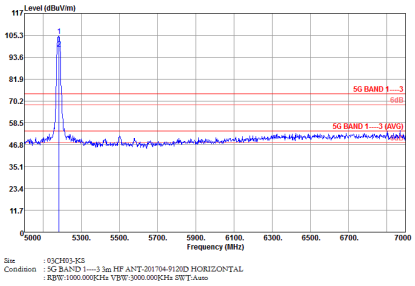
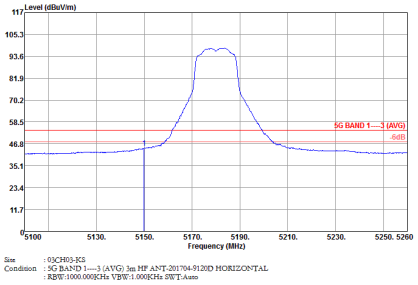
Band 3 - Straddle Channel

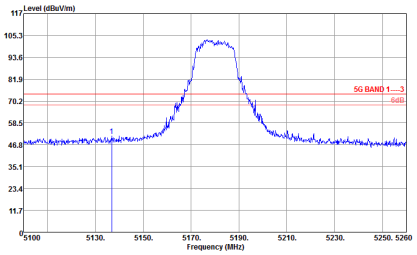
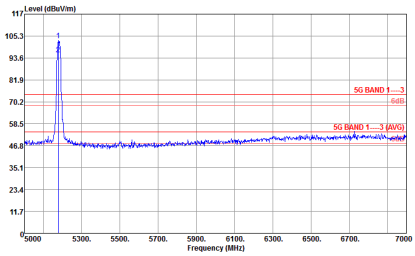
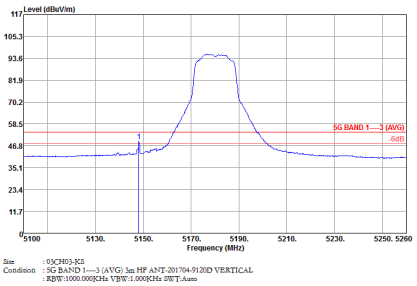
WIFI 802.11a (Harmonic @ 3m)

WIFI	Band 3 Straddle Channel Harmonic @ 3m	
ANT	802.11a CH144 5720MHz	
2	Horizontal	Vertical
Peak Avg.		

Band 1 - 5150~5250MHz

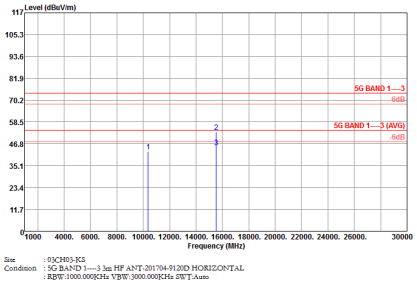
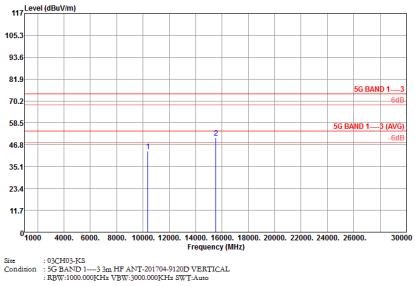
WIFI 802.11a (Band Edge @ 3m)

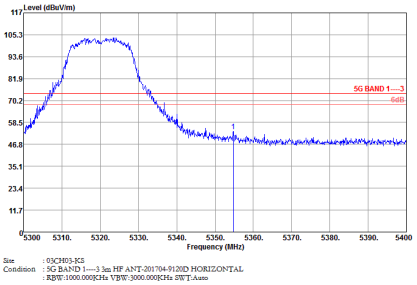
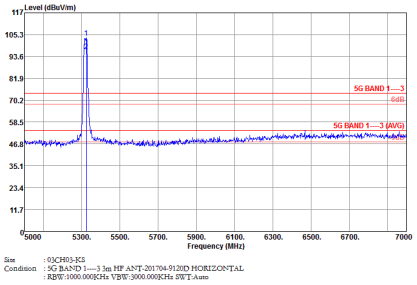
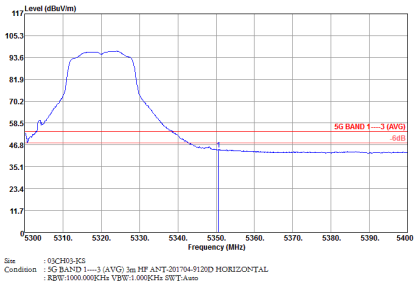
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH36 5180MHz	
1	Horizontal	Fundamental
Peak		
Avg.		

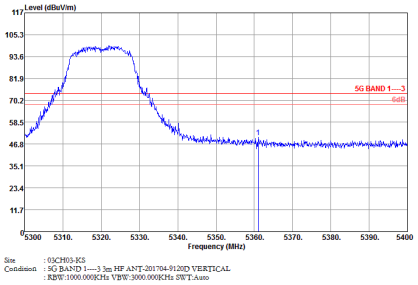
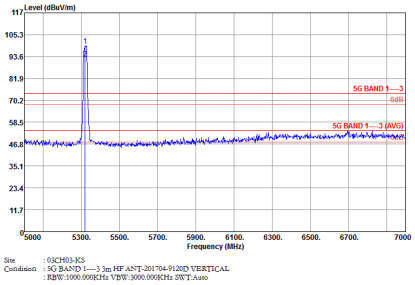
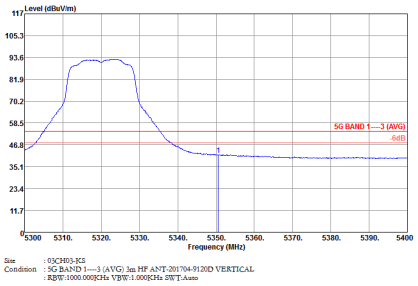
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH36 5180MHz	
1	Vertical	Fundamental
Peak		
Avg.		

Band 1 - 5150~5250MHz

WIFI 802.11a (Harmonic @ 3m)

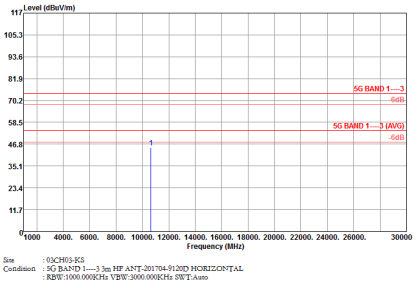
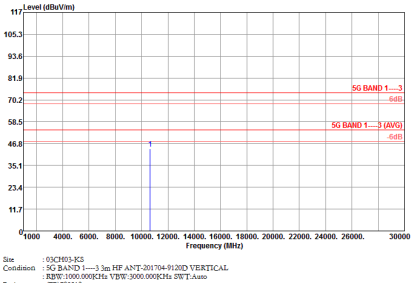
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11a CH36 5180MHz	
1	Horizontal	Vertical
Peak Avg.		

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH64 5320MHz	
1	Horizontal	Fundamental
Peak		
Avg.		

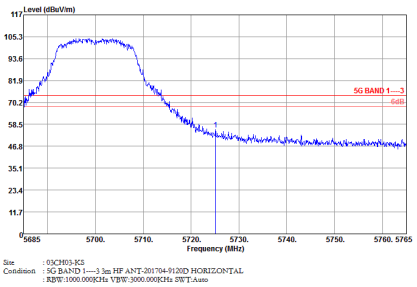
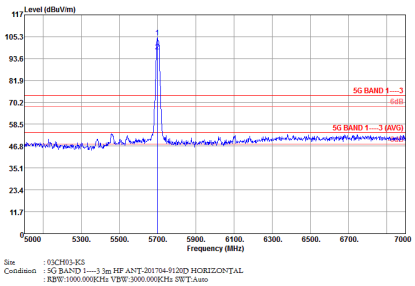
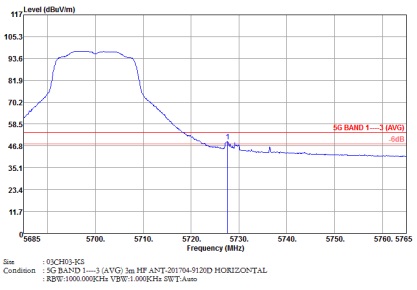
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH64 5320MHz	
1	Vertical	Fundamental
Peak		
Avg.		

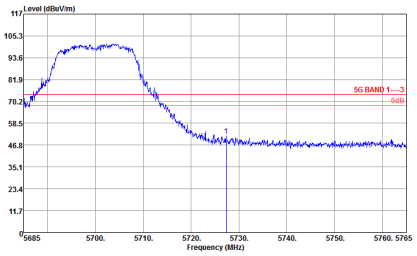
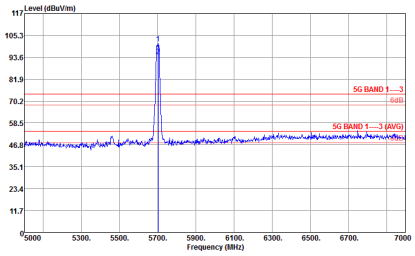
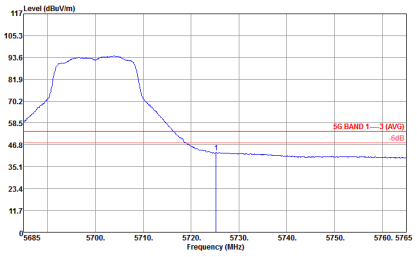
Band 2 - 5250~5350MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11a CH64 5320MHz	
1	Horizontal	Vertical
Peak Avg.		

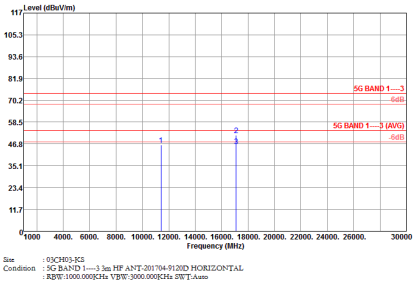
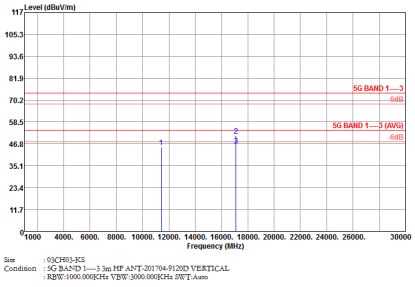
WIFI 802.11a (Band Edge @ 3m)

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH140 5700MHz	
1	Horizontal	Fundamental
Peak		
Avg.		

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH140 5700MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH03-KS Condition : 5G BAND 1---3 3m HF ANT-201704-9120D VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH03-KS Condition : 5G BAND 1---3 3m HF ANT-201704-9120D VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH03-KS Condition : 5G BAND 1---3 (AVG) 3m HF ANT-201704-9120D VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto	

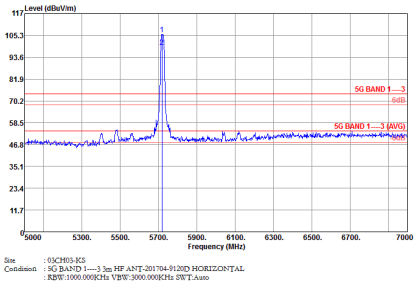
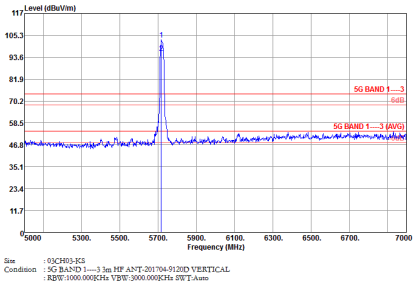
Band 3 - 5470~5725MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11a CH140 5700MHz	
1	Horizontal	Vertical
Peak Avg.		

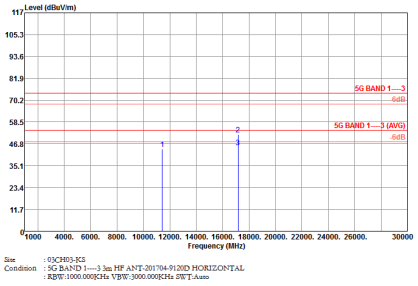
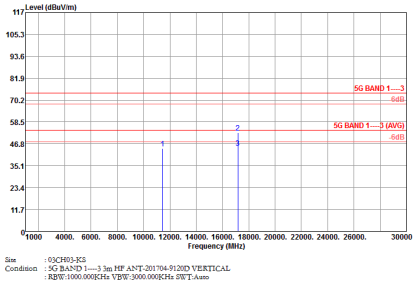
Band 3 - Straddle Channel

WIFI 802.11a (Fundamental @ 3m)

WIFI	Band 3 Straddle Channel Fundamental @ 3m	
ANT	802.11a CH144 5720MHz	
1	Horizontal	Vertical
Peak Avg.		

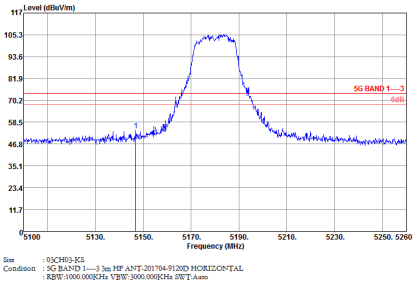
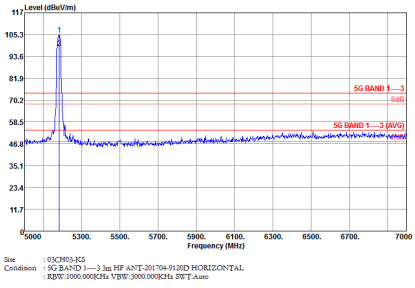
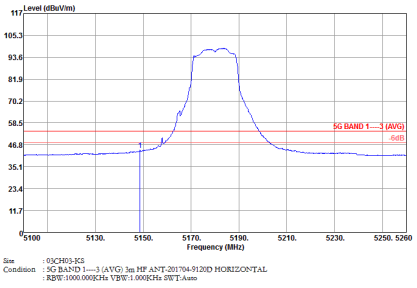
Band 3 - Straddle Channel

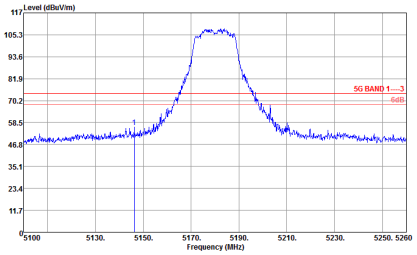
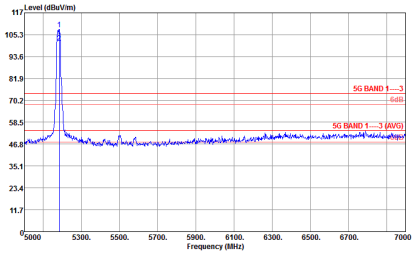
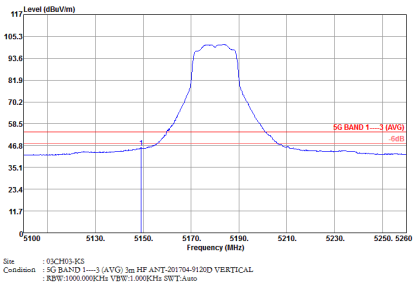
WIFI 802.11a (Harmonic @ 3m)

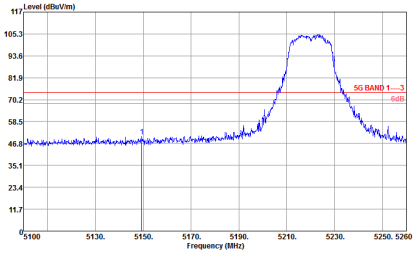
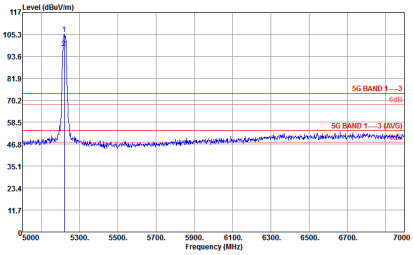
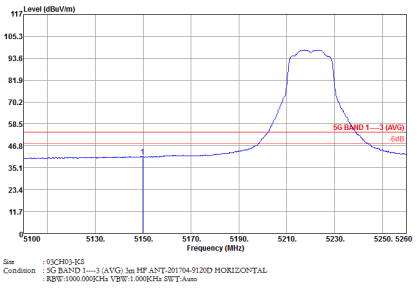
WIFI	Band 3 Straddle Channel Harmonic @ 3m	
ANT	802.11a CH144 5720MHz	
1	Horizontal	Vertical
Peak Avg.		

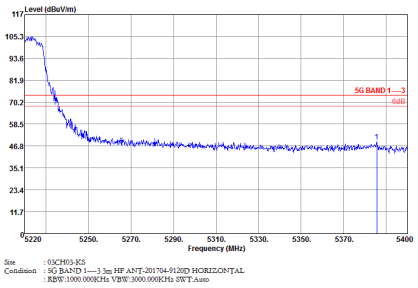
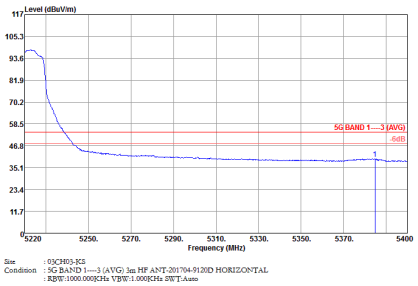
Band 1 - 5150~5250MHz

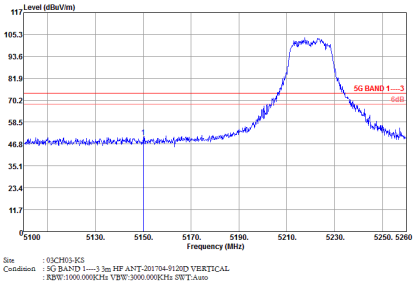
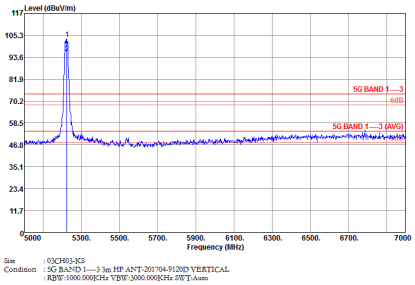
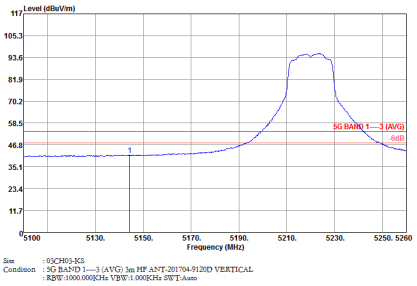
WIFI 802.11n HT20 (Band Edge @ 3m)

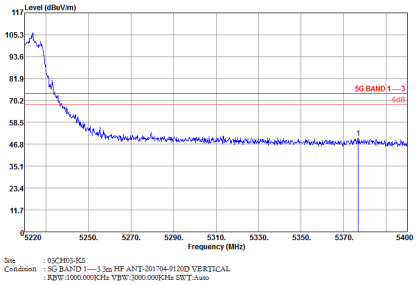
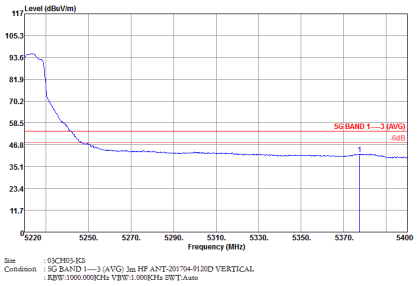
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH36 5180MHz	
1+2	Horizontal	Fundamental
Peak		
Avg.		

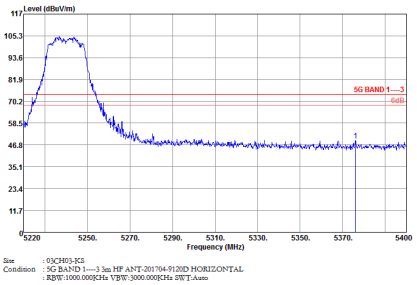
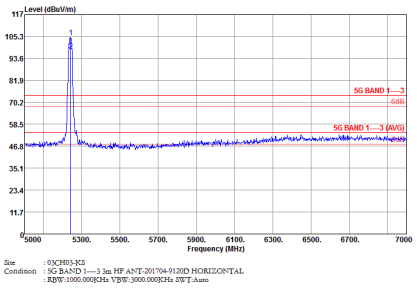
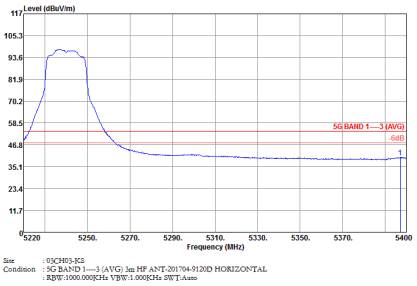
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH36 5180MHz	
1+2	Vertical	Fundamental
Peak		
Avg.		

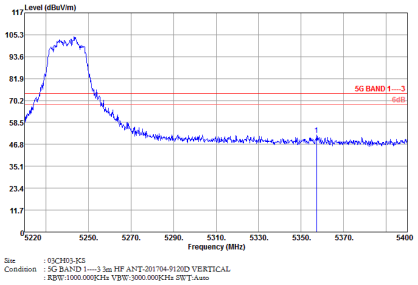
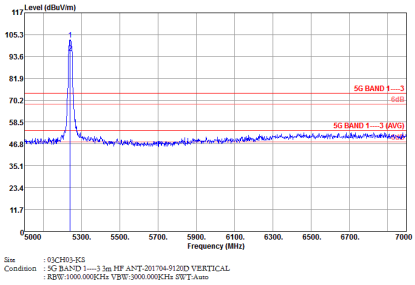
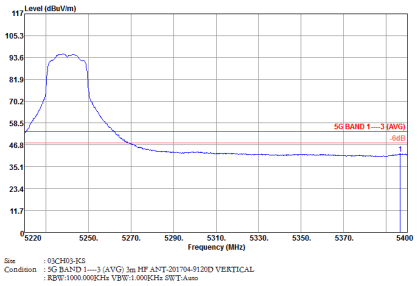
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH44 5220MHz - L	
1+2	Horizontal	Fundamental
Peak		
Avg.		

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

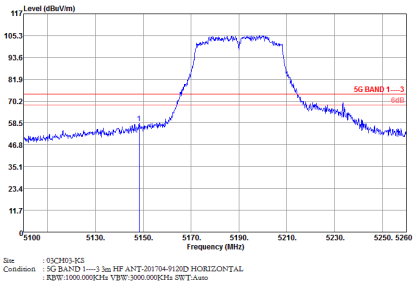
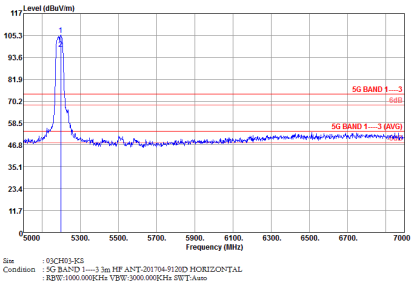
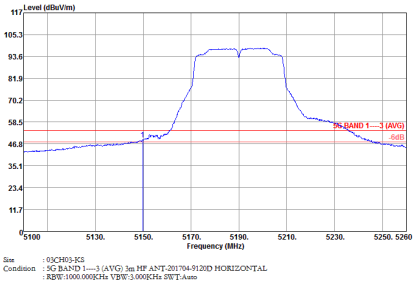
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH44 5220MHz - L	
1+2	Vertical	Fundamental
Peak		
Avg.		

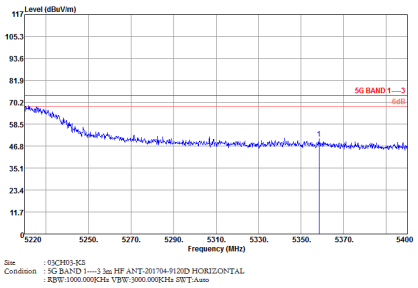
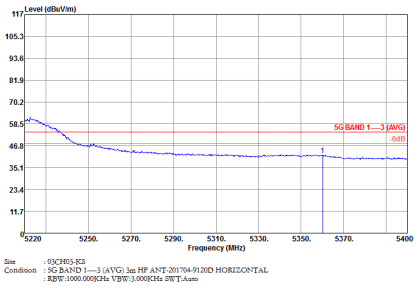
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH44 5220MHz - R	
1+2	Vertical	Fundamental
Peak		
Avg.		

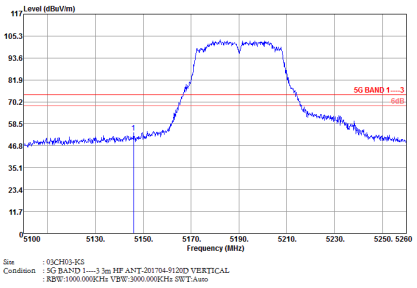
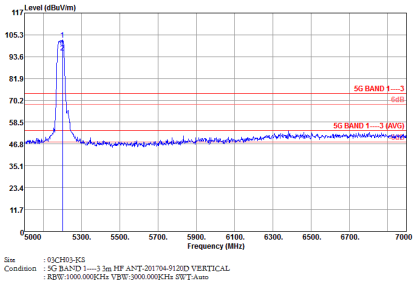
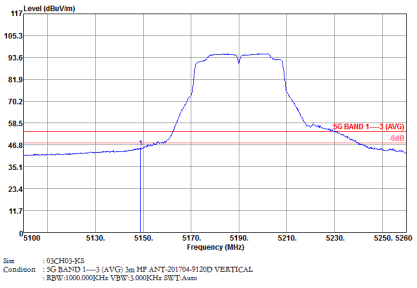
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - L	
1+2	Horizontal	Fundamental
Peak		
Avg.		

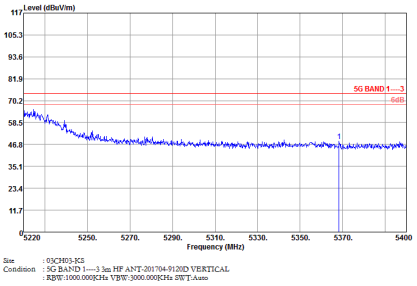
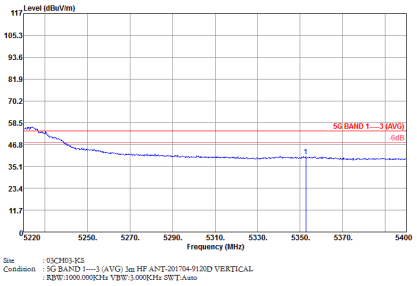
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - L	
1+2	Vertical	Fundamental
Peak		
Avg.		

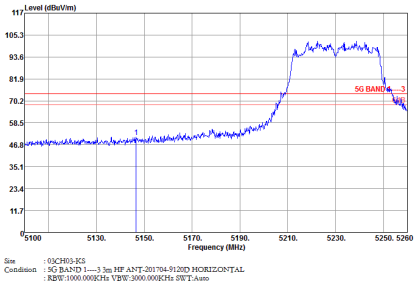
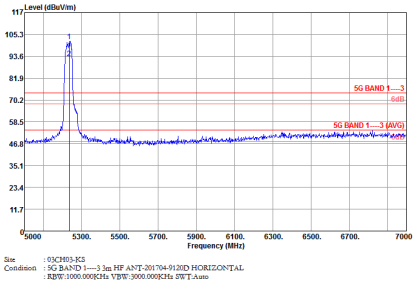
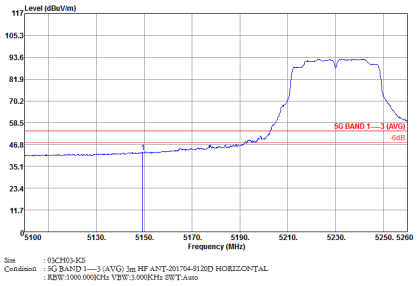
Band 1 5150~5250MHz
WIFI 802.11n HT40 (Band Edge @ 3m)

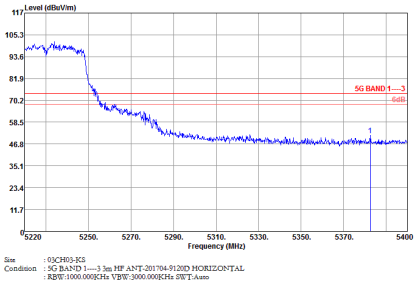
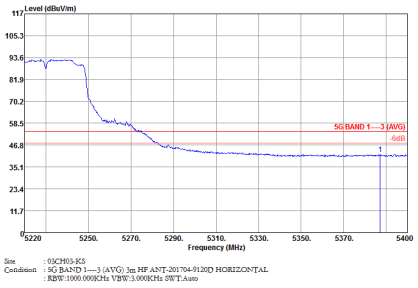
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH38 5190MHz - L	
1+2	Horizontal	Fundamental
Peak		
Avg.		

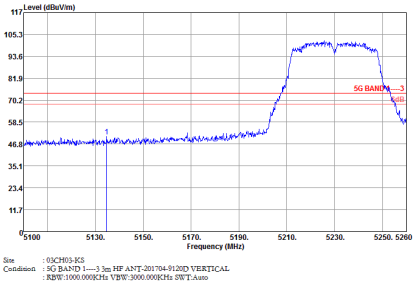
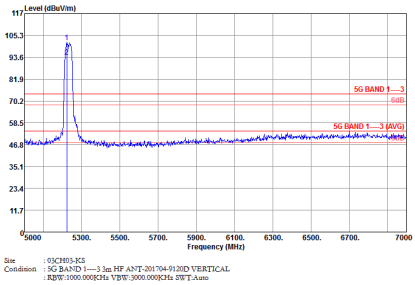
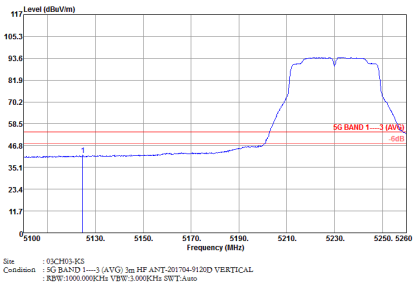
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH38 5190MHz - R	
1+2	Horizontal	Fundamental
Peak		
Avg.		

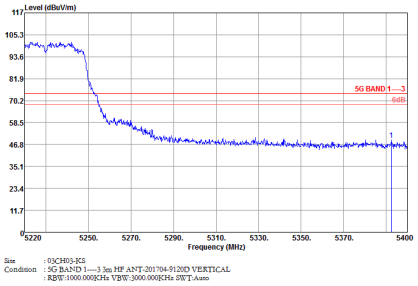
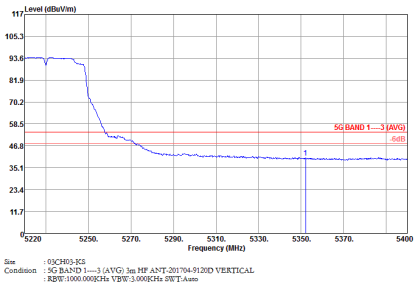
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH38 5190MHz - L	
1+2	Vertical	Fundamental
Peak		
Avg.		

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

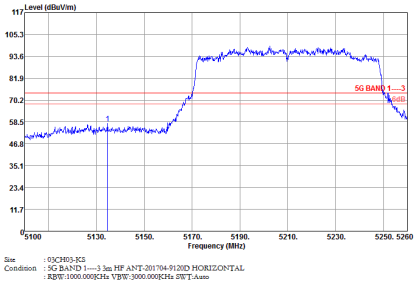
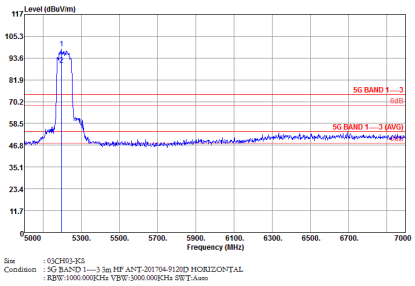
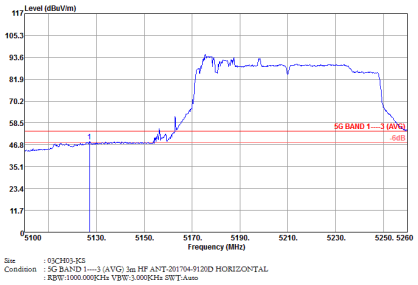
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH46 5230MHz - L	
1+2	Horizontal	Fundamental
Peak		
Avg.		

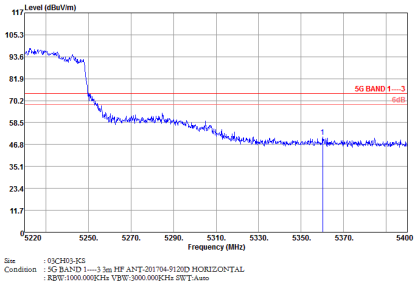
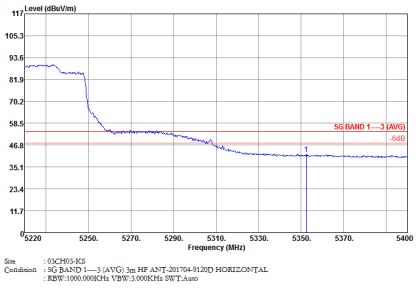
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH46 5230MHz - R	
1+2	Horizontal	Fundamental
Peak		
Avg.		

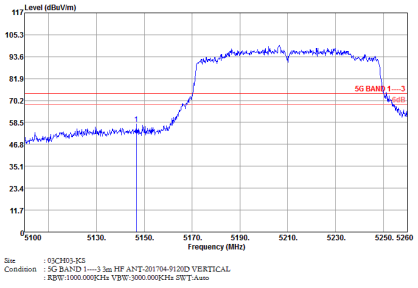
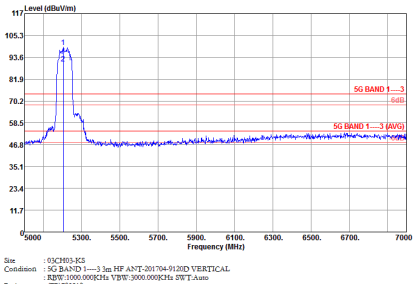
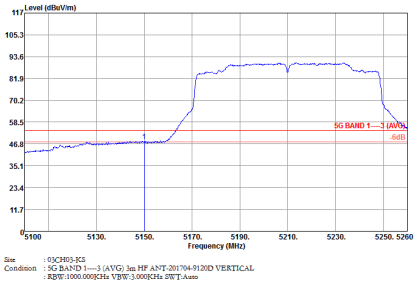
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH46 5230MHz - L	
1+2	Vertical	Fundamental
Peak		
Avg.		

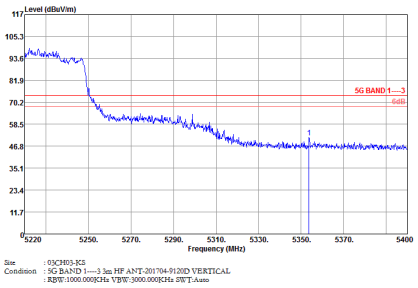
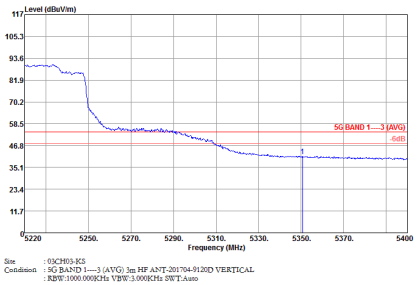
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH46 5230MHz - R	
1+2	Vertical	Fundamental
Peak		
Avg.		

Band 1 5150~5250MHz
WIFI 802.11ac VHT80 (Band Edge @ 3m)

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

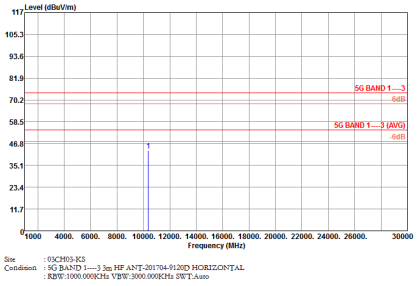
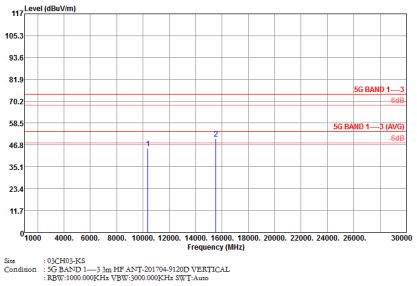
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - R	
1+2	Horizontal	Fundamental
Peak		
Avg.		

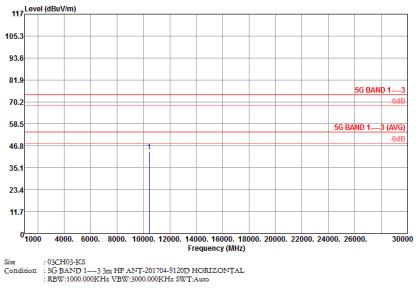
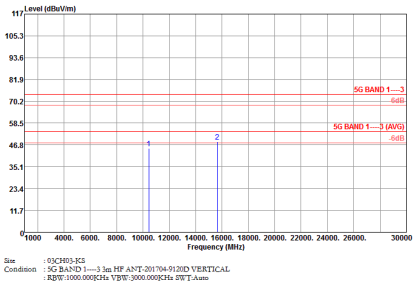
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - L	
1+2	Vertical	Fundamental
Peak		
Avg.		

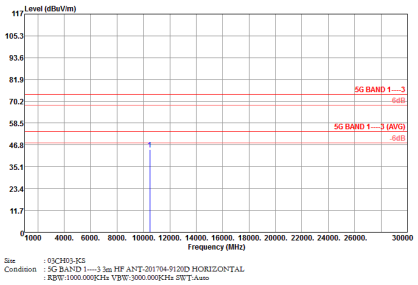
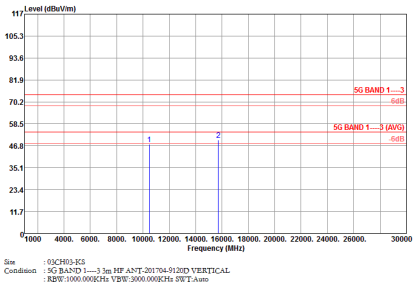
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - R	
1+2	Vertical	Fundamental
Peak		
Avg.		

Band 1 - 5150~5250MHz

WIFI 802.11n HT20 (Harmonic @ 3m)

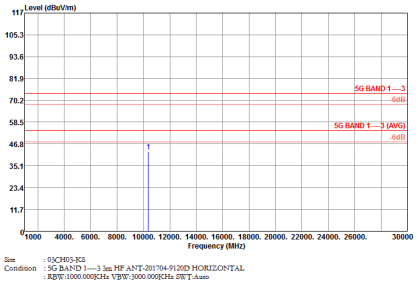
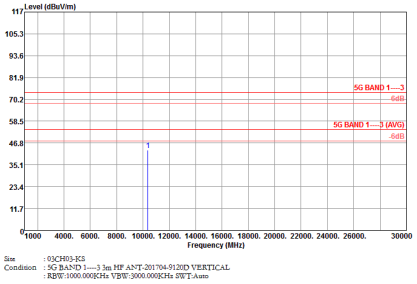
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11n HT20 CH36 5180MHz	
1+2	Horizontal	Vertical
Peak Avg.		

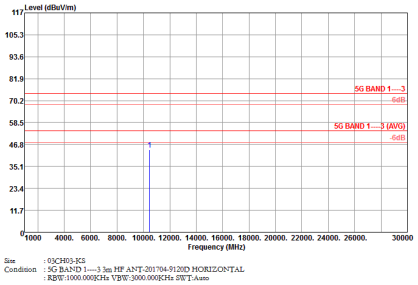
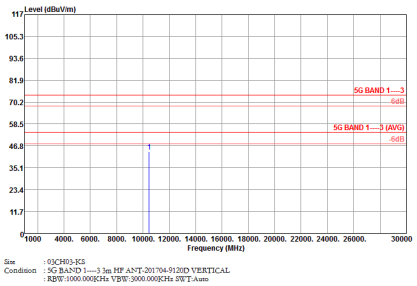
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11n HT20 CH44 5220MHz	
1+2	Horizontal	Vertical
Peak Avg.		

WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11n HT20 CH48 5240MHz	
1+2	Horizontal	Vertical
Peak Avg.		

Band 1 5150~5250MHz

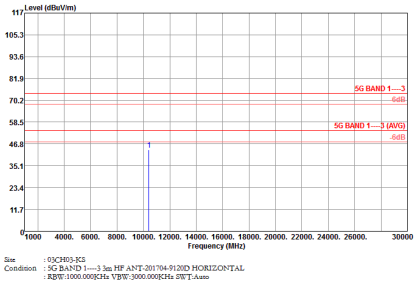
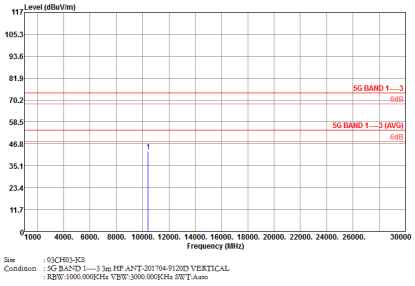
WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11n HT40 CH38 5190MHz	
1+2	Horizontal	Vertical
Peak Avg.		

WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11n HT40 CH46 5230MHz	
1+2	Horizontal	Vertical
Peak Avg.		

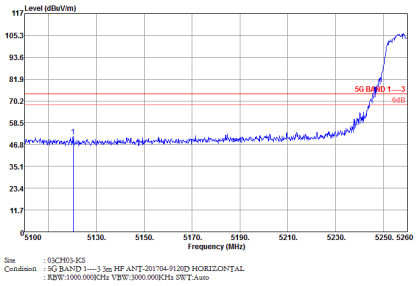
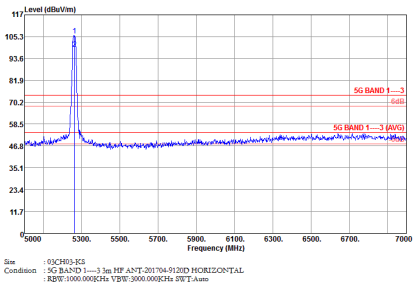
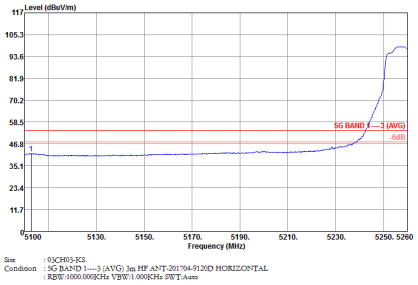
Band 1 5150~5250MHz

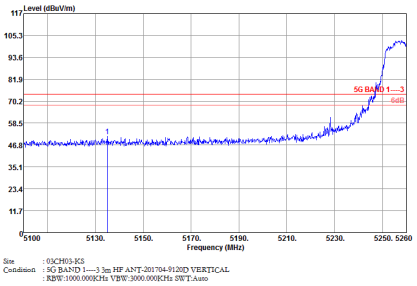
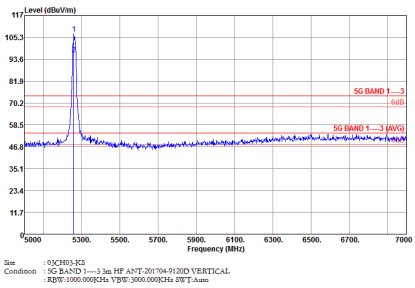
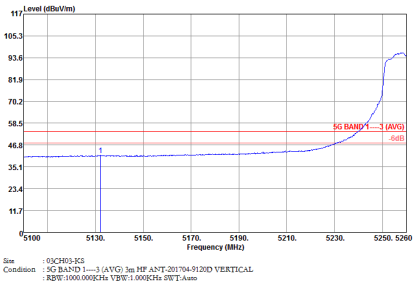
WIFI 802.11ac VHT80 (Harmonic @ 3m)

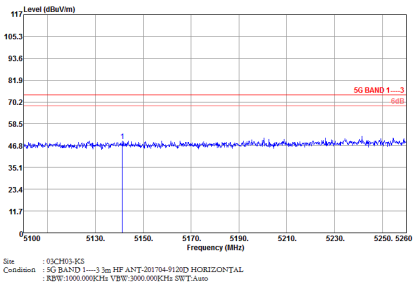
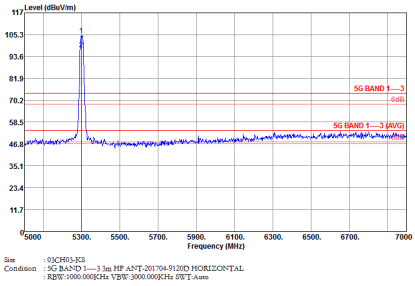
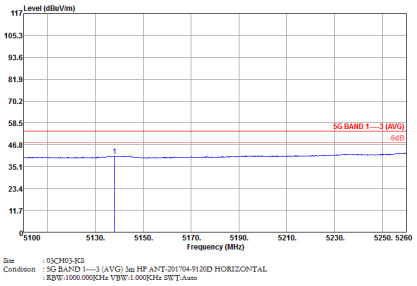
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz	
1+2	Horizontal	Vertical
Peak Avg.		

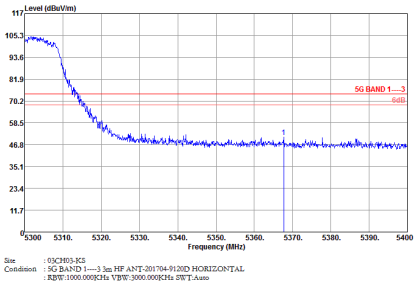
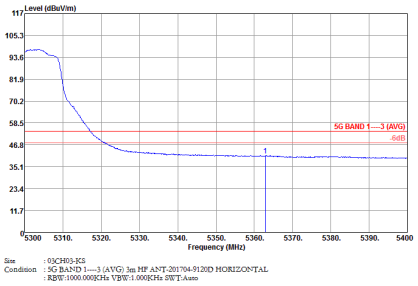
Band 2 - 5250~5350MHz

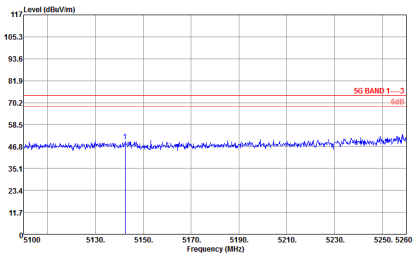
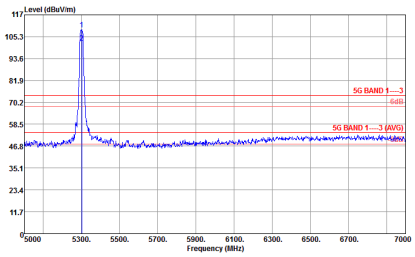
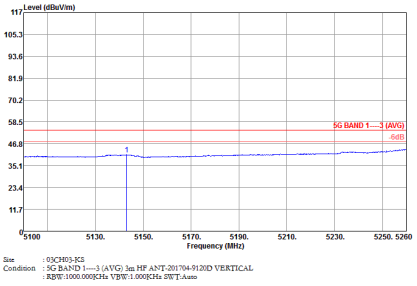
WIFI 802.11n HT20 (Band Edge @ 3m)

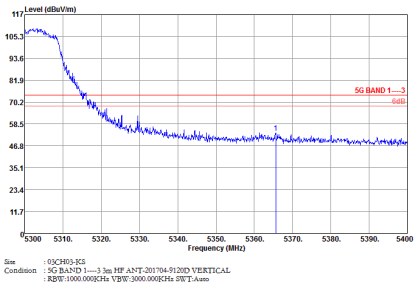
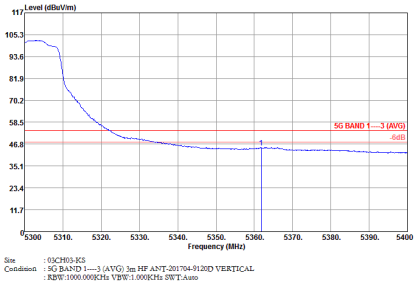
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH52 5260MHz - L	
1+2	Horizontal	Fundamental
Peak		
Avg.		

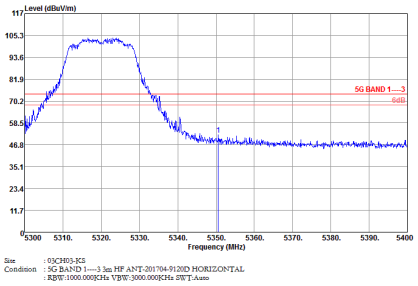
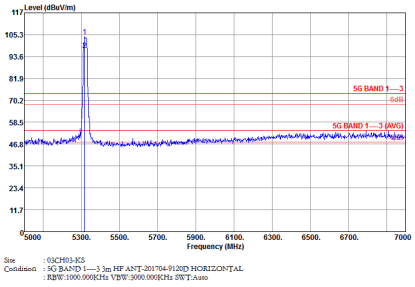
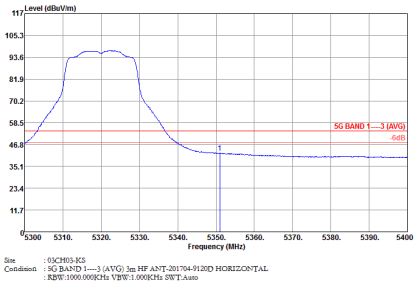
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH52 5260MHz - L	
1+2	Vertical	Fundamental
Peak		
Avg.		

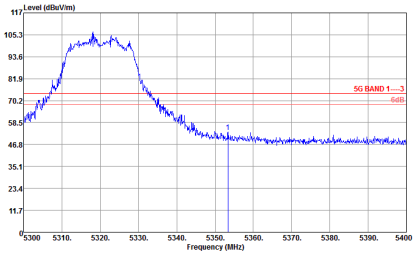
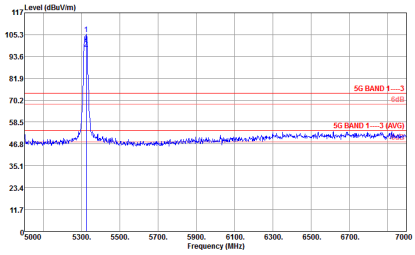
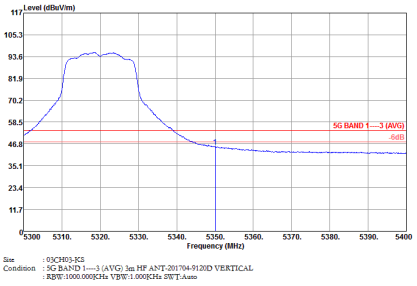
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH60 5300MHz - L	
1+2	Horizontal	Fundamental
Peak		
Avg.		

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH60 5300MHz - R	
1+2	Horizontal	Vertical
Peak		
Avg.		

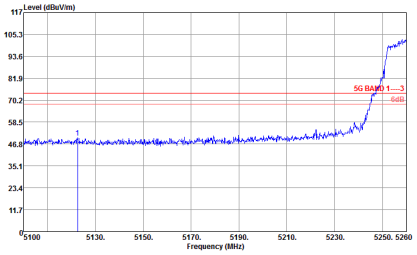
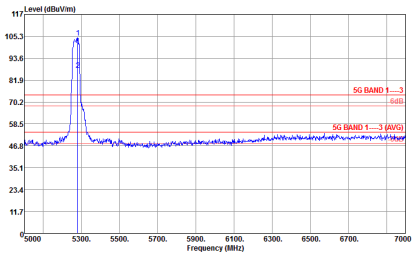
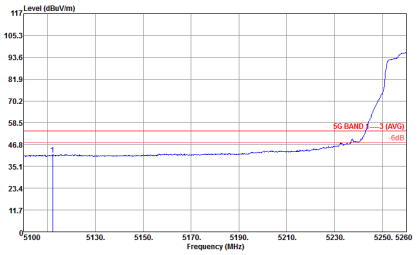
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH60 5300MHz - L	
1+2	Vertical	Fundamental
Peak		
Avg.		

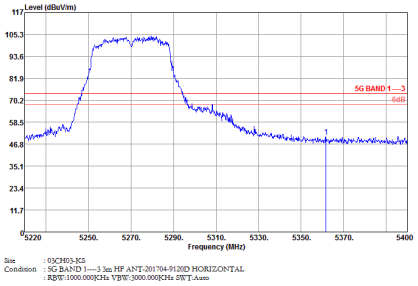
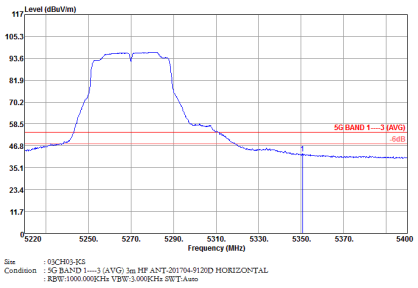
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH60 5300MHz - R	
1+2	Vertical	Fundamental
Peak		
Avg.		

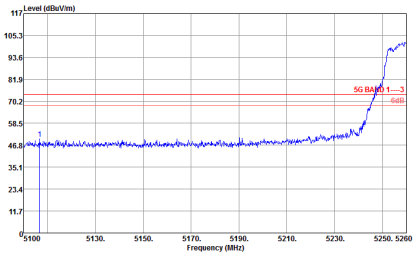
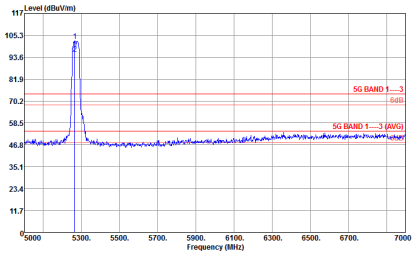
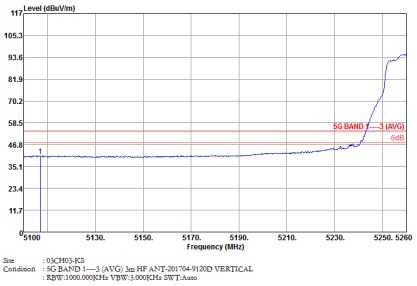
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH64 5320MHz	
1+2	Horizontal	Fundamental
Peak		
Avg.		

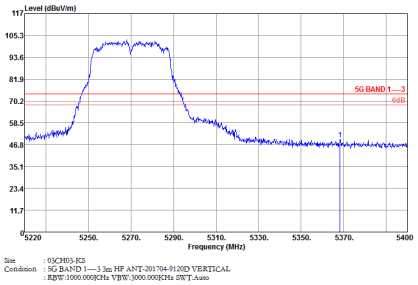
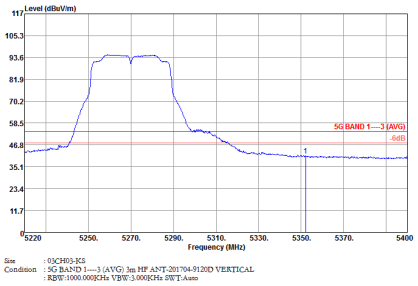
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH64 5320MHz	
1+2	Vertical	Fundamental
Peak		
Avg.		

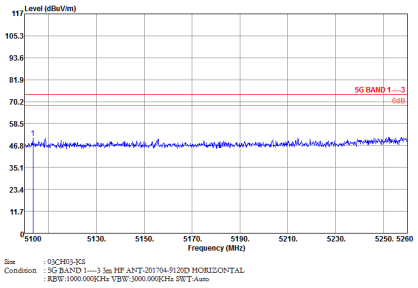
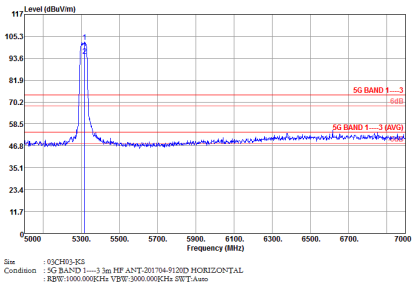
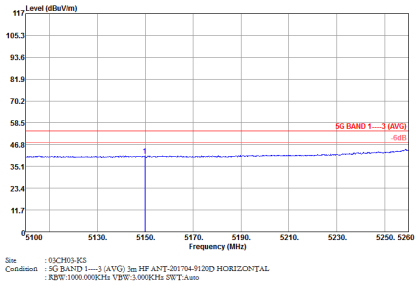
Band 2 5250~5350MHz
WIFI 802.11n HT40 (Band Edge @ 3m)

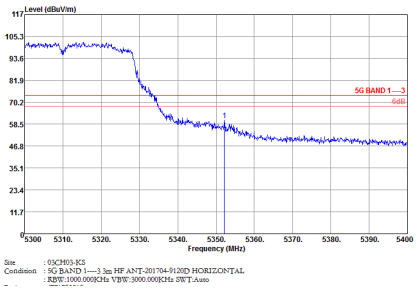
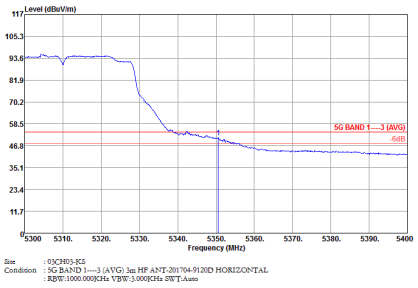
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH54 5270 - L	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH03-KS Condition : 5G BAND 1---3 3m HF ANT-201704-9120D HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH03-KS Condition : 5G BAND 1---3 3m HF ANT-201704-9120D HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH03-KS Condition : 5G BAND 1---3 (AVG) 3m HF ANT-201704-9120D HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto	

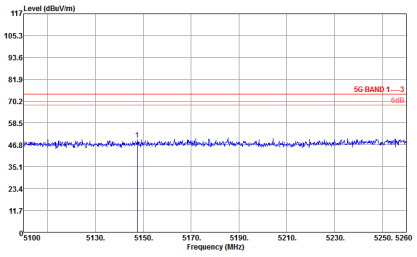
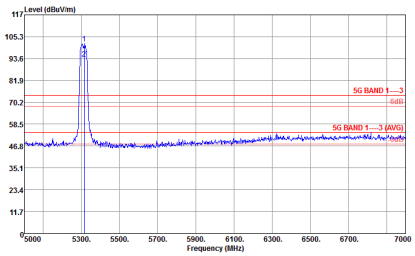
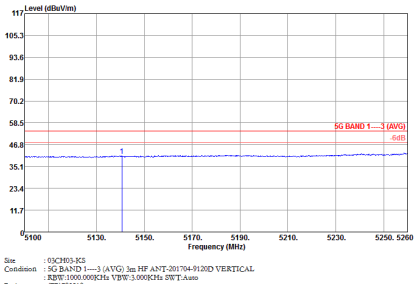
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH54 5270 - R	
1+2	Horizontal	Fundamental
Peak		
Avg.		

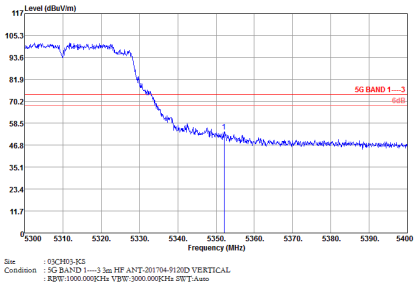
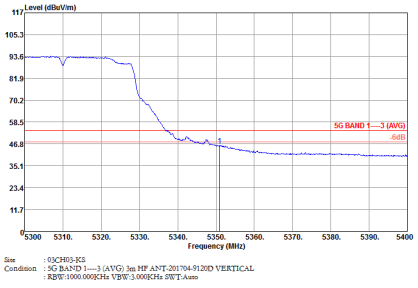
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH54 5270 - L	
1+2	Vertical	Vertical
Peak		
Avg.		

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

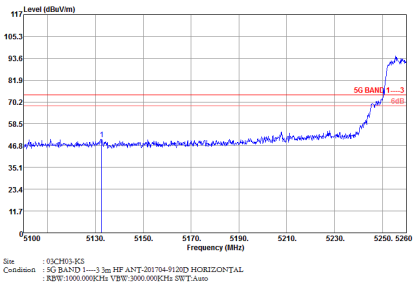
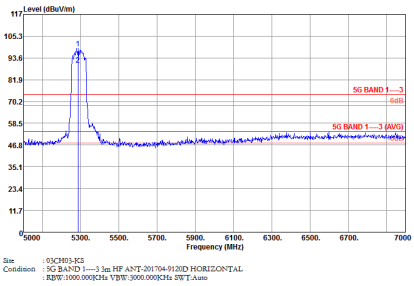
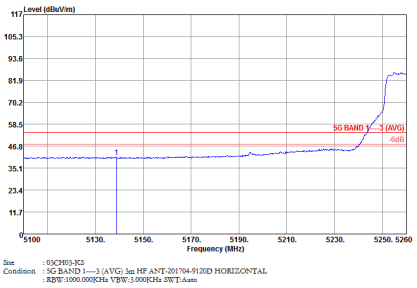
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH62 5310 - L	
1+2	Horizontal	Fundamental
Peak		
Avg.		

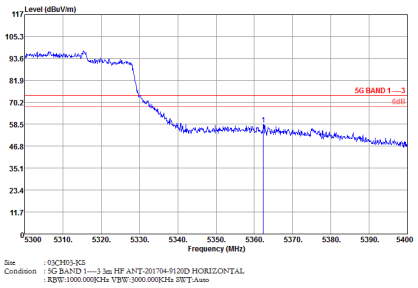
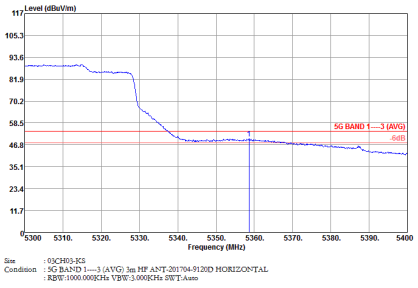
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH62 5310 - R	
1+2	Horizontal	Fundamental
Peak		
Avg.		

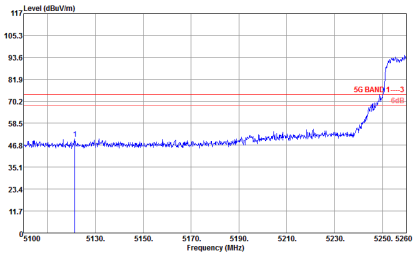
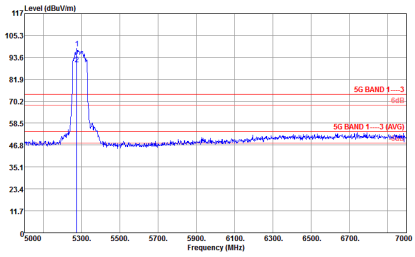
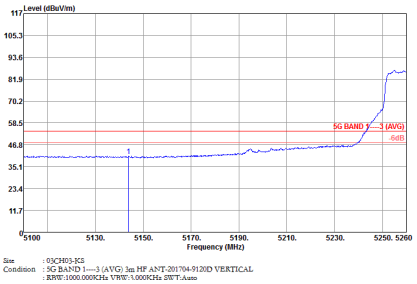
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH62 5310 - L	
1+2	Vertical	Fundamental
Peak		
Avg.		

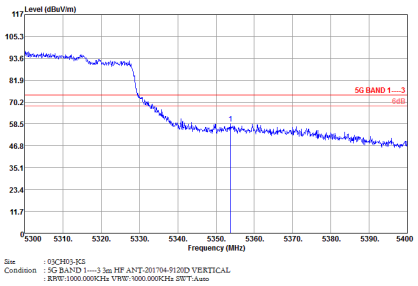
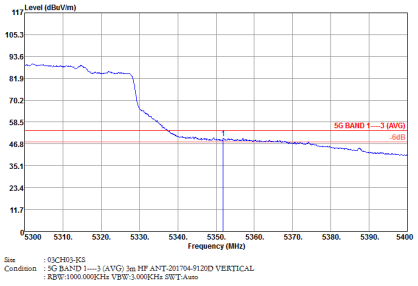
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH62 5310 - R	
1+2	Vertical	Fundamental
Peak		
Avg.		

Band 2 5250~5350MHz
WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH58 5290MHz - L	
1+2	Horizontal	Fundamental
Peak		
Avg.		

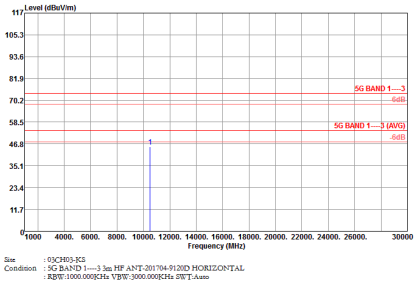
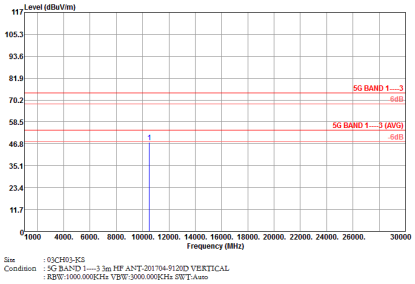
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH58 5290MHz - R	
1+2	Horizontal	Fundamental
Peak		
Avg.		

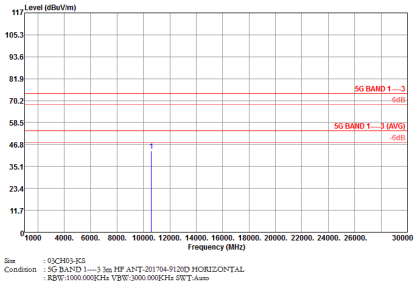
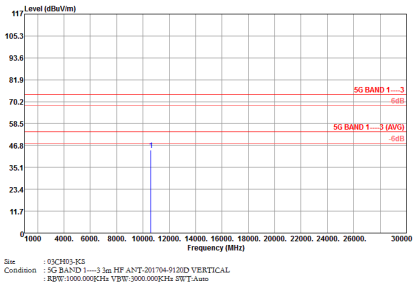
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH58 5290MHz - L	
1+2	Vertical	Fundamental
Peak		
Avg.		

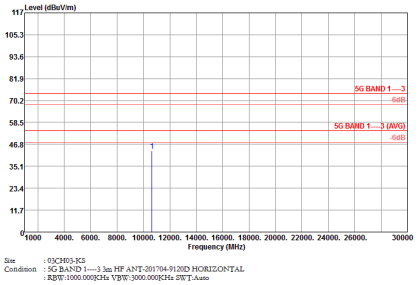
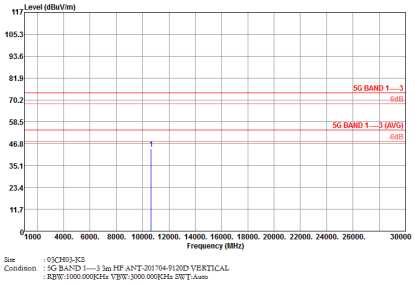
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH58 5290MHz - R	
1+2	Vertical	Fundamental
Peak		
Avg.		

Band 2 - 5250~5350MHz

WIFI 802.11n HT20 (Harmonic @ 3m)

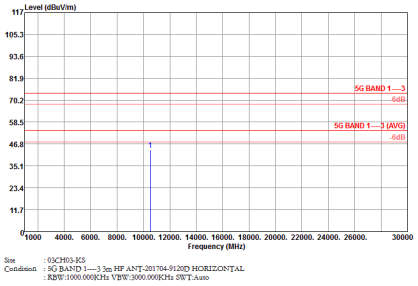
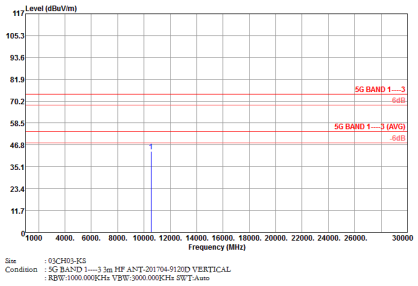
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11n HT20 CH52 5260MHz	
1+2	Horizontal	Vertical
Peak Avg.		

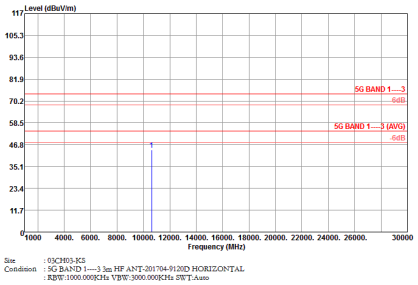
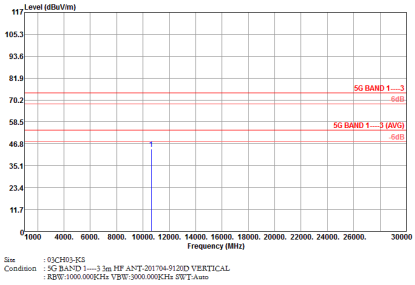
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11n HT20 CH60 5300MHz	
1+2	Horizontal	Vertical
Peak Avg.		

WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11n HT20 CH64 5320MHz	
1+2	Horizontal	Vertical
Peak Avg.		

Band 2 5250~5350MHz

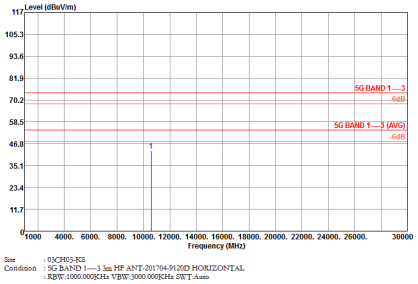
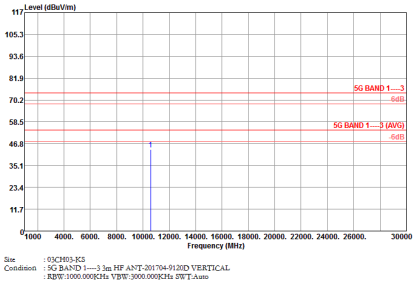
WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11n HT40 CH54 5270	
1+2	Horizontal	Vertical
Peak Avg.		

WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11n HT40 CH62 5310	
1+2	Horizontal	Vertical
Peak Avg.		

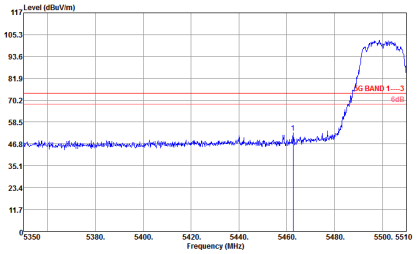
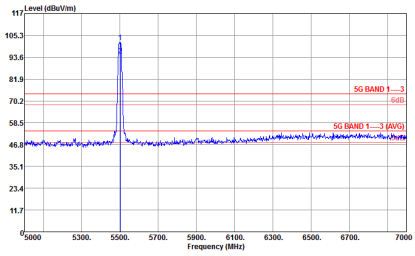
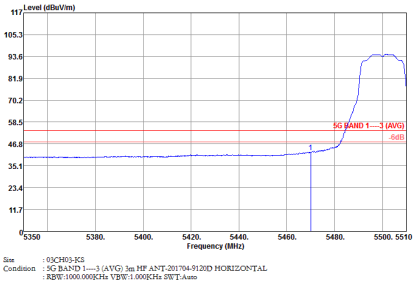
Band 2 5250~5350MHz

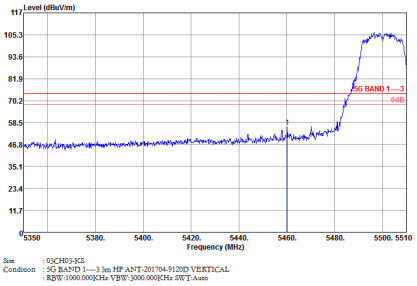
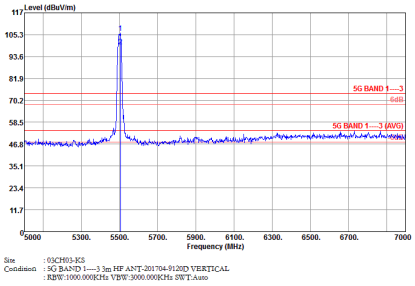
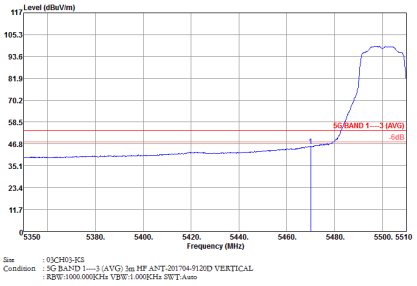
WIFI 802.11ac VHT80 (Harmonic @ 3m)

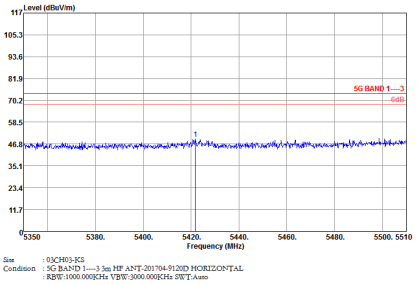
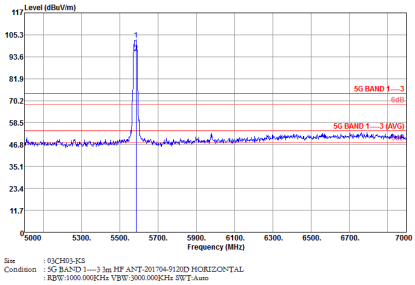
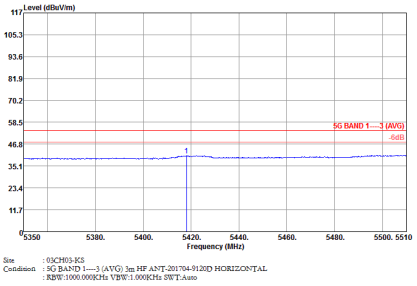
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11ac VHT80 CH58 5290MHz	
1+2	Horizontal	Vertical
Peak Avg.		

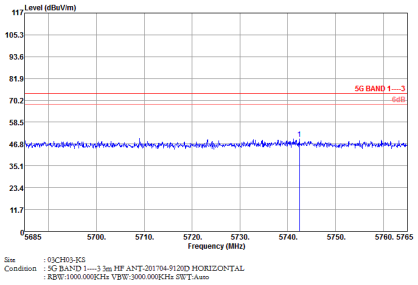
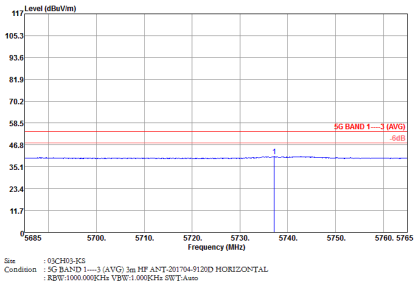
Band 3 - 5470~5725MHz

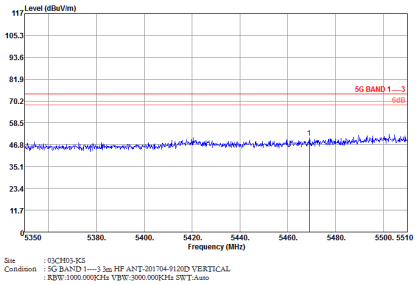
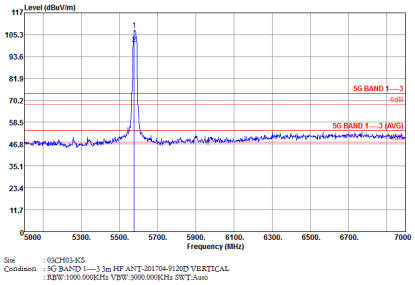
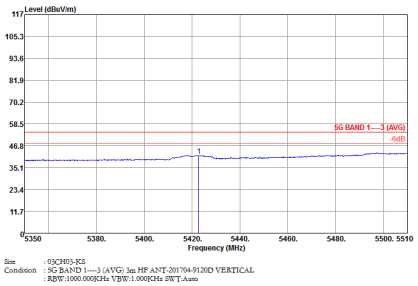
WIFI 802.11n HT20 (Band Edge @ 3m)

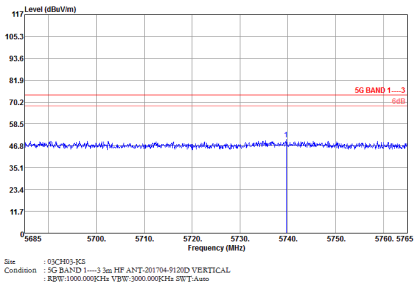
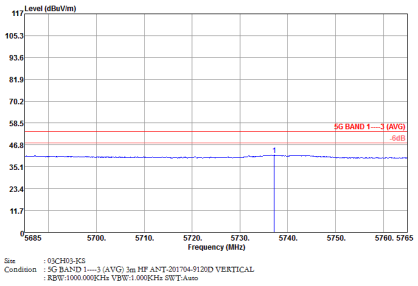
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH100 5500MHz	
1+2	Horizontal	Fundamental
Peak		
Avg.		

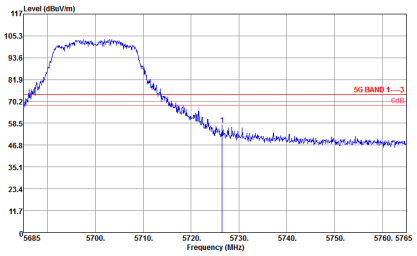
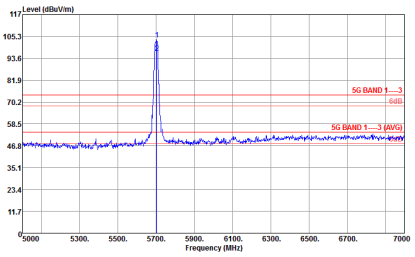
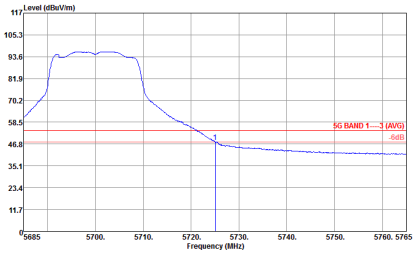
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH100 5500MHz	
1+2	Vertical	Fundamental
Peak		
Avg.		

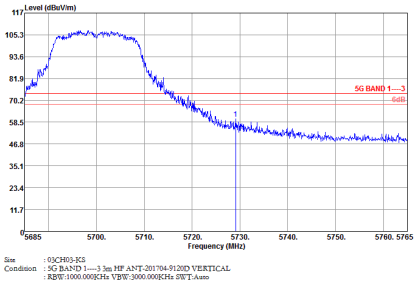
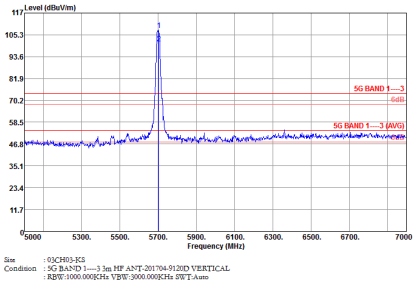
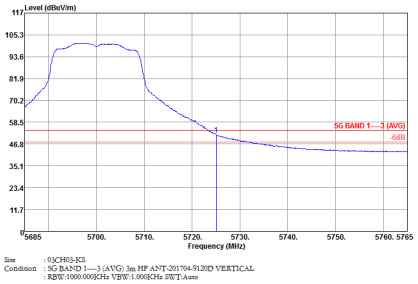
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH116 5580MHz - L	
1+2	Horizontal	Fundamental
Peak		
Avg.		

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

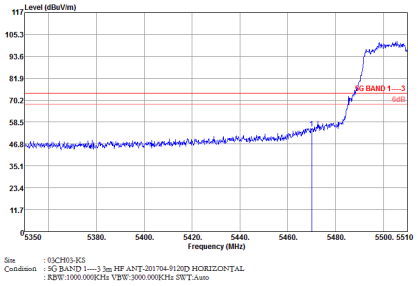
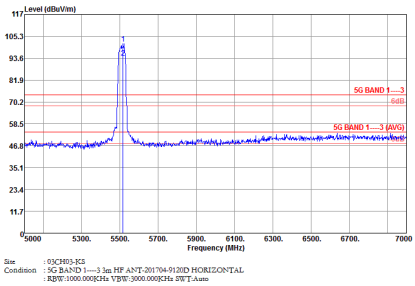
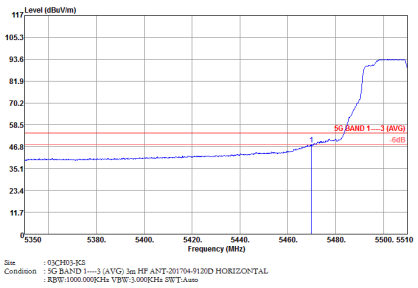
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH116 5580MHz - L	
1+2	Vertical	Fundamental
Peak		
Avg.		

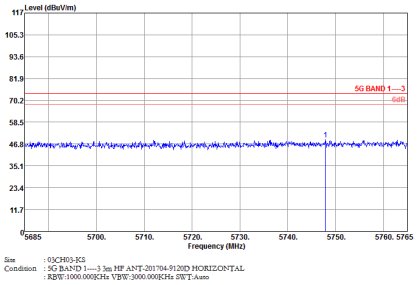
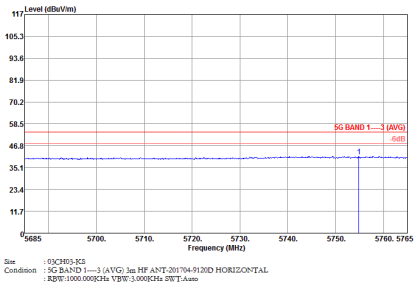
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH116 5580MHz - L	
1+2	Vertical	Fundamental
Peak		
Avg.		

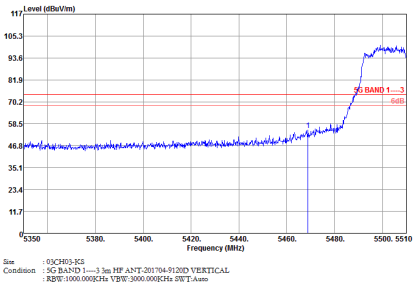
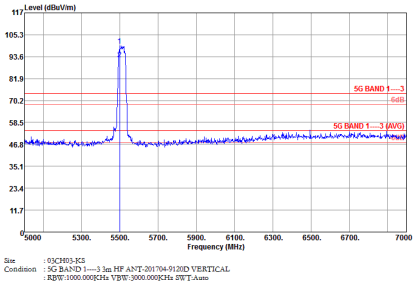
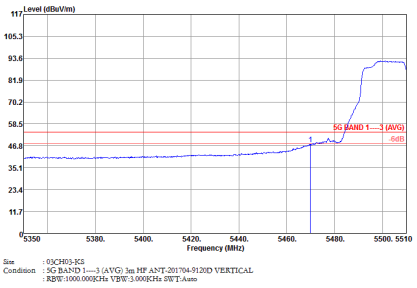
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH140 5700MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH03-KS Condition : 5G BAND 1---3 3m HF ANT-201704-9120D HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH03-KS Condition : 5G BAND 1---3 3m HF ANT-201704-9120D HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH03-KS Condition : 5G BAND 1---3 (AVG) 3m HF ANT-201704-9120D HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto	

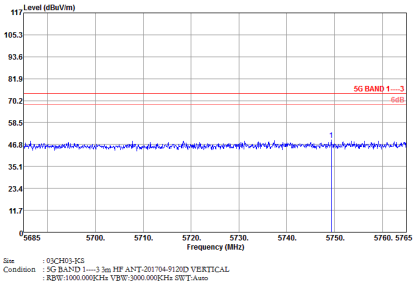
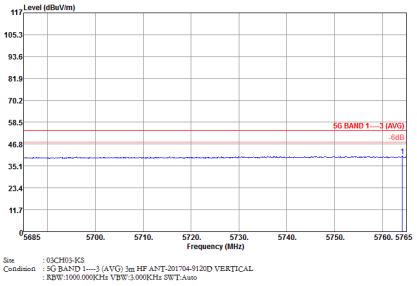
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH140 5700MHz	
1+2	Vertical	Fundamental
Peak		
Avg.		

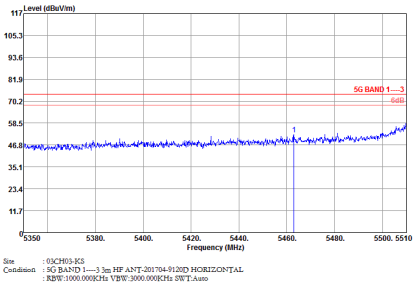
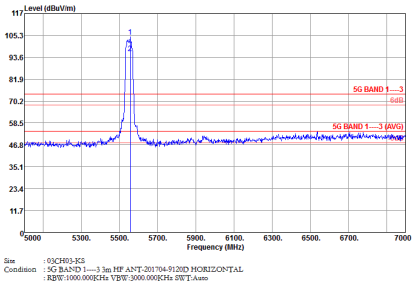
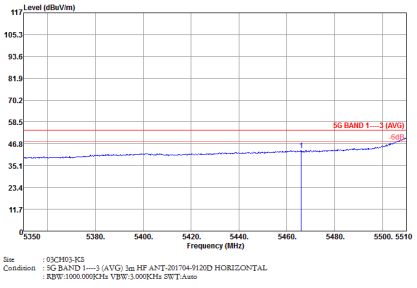
Band 3 5470~5725MHz
WIFI 802.11n HT40 (Band Edge @ 3m)

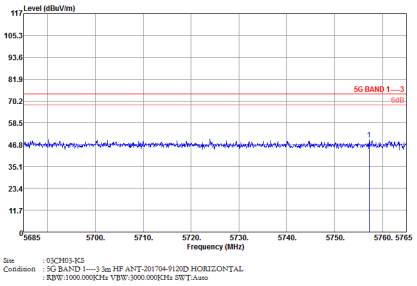
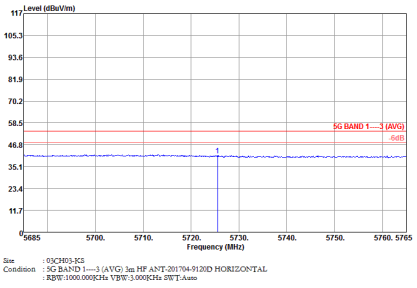
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH102 5510MHz - L	
1+2	Horizontal	Fundamental
Peak		
Avg.		

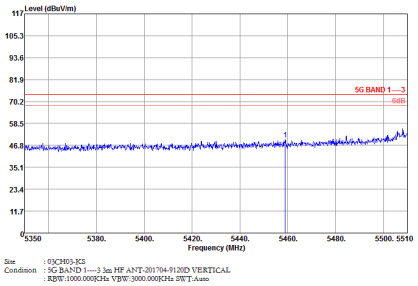
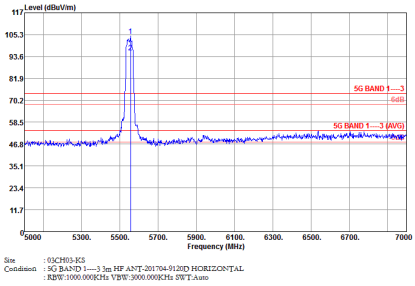
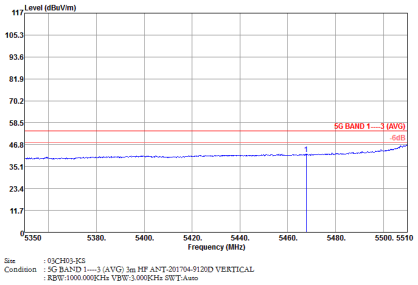
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH102 5510MHz - R	
1+2	Horizontal	Fundamental
Peak		
Avg.		

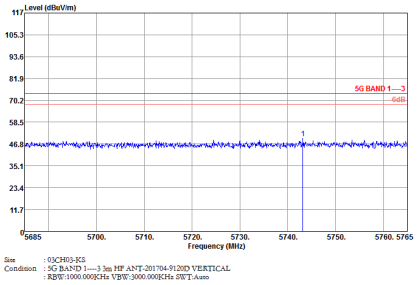
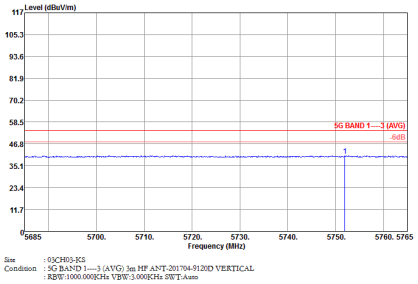
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH102 5510MHz - L	
1+2	Vertical	Fundamental
Peak		
Avg.		

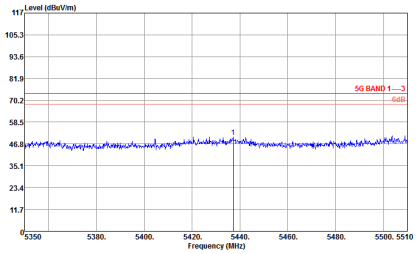
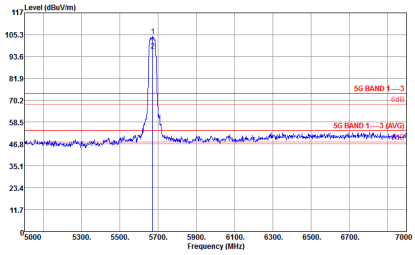
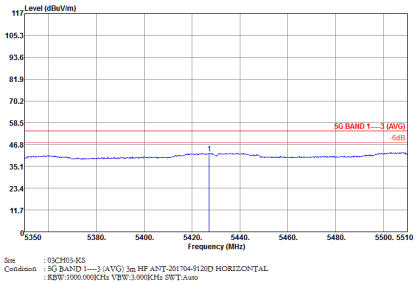
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH102 5510MHz - R	
1+2	Vertical	Fundamental
Peak		
Avg.		

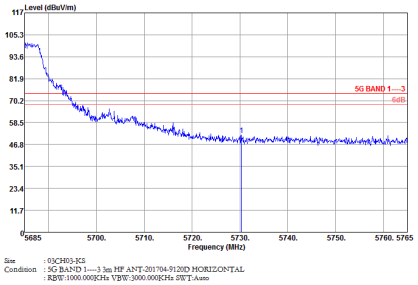
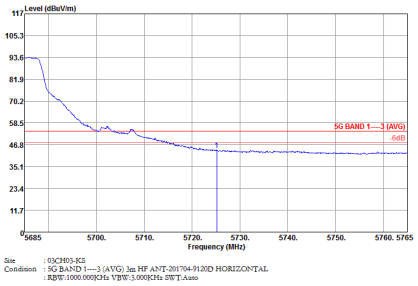
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH110 5550MHz - L	
1+2	Horizontal	Fundamental
Peak		
Avg.		

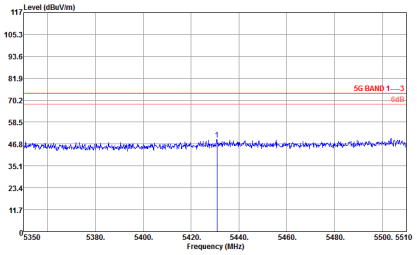
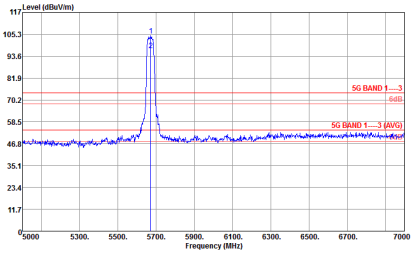
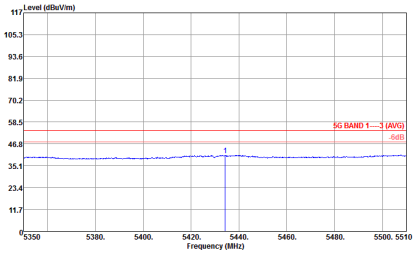
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH110 5550MHz - L	
1+2	Horizontal	Fundamental
Peak		
Avg.		

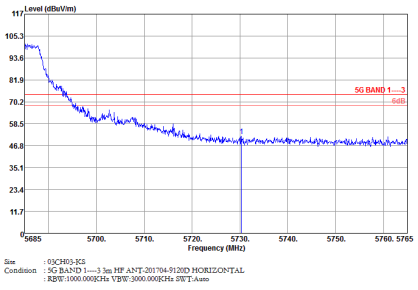
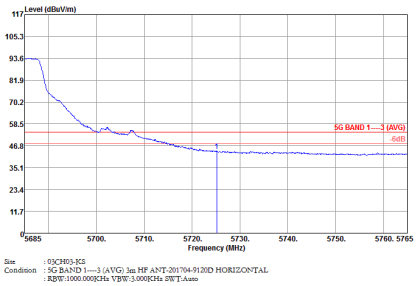
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH110 5550MHz - L	
1+2	Vertical	Fundamental
Peak		
Avg.		

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH110 5550MHz - L	
1+2	Vertical	Fundamental
Peak		
Avg.		

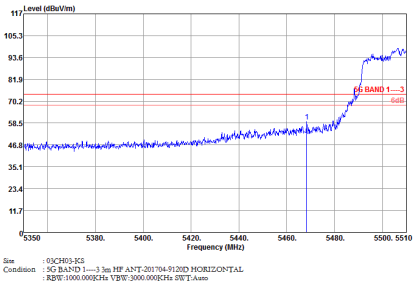
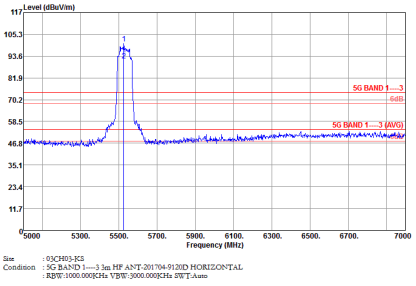
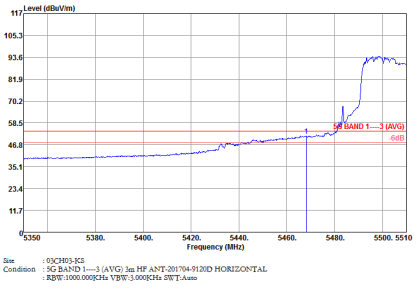
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH134 5670MHz - L	
1+2	Horizontal	Fundamental
Peak		
Avg.		

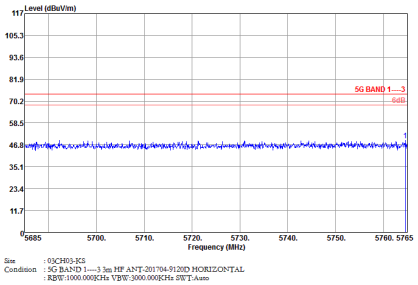
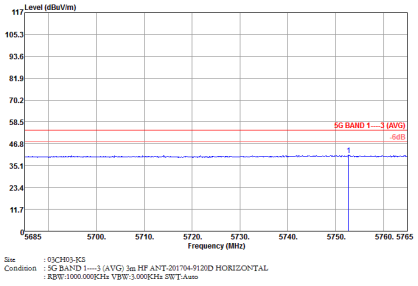
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH134 5670MHz - L	
1+2	Horizontal	Fundamental
Peak		
Avg.		

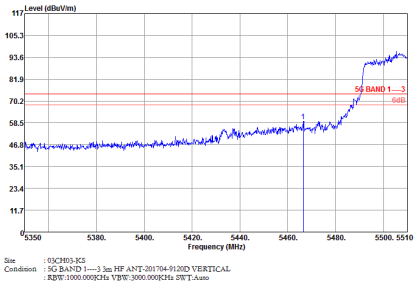
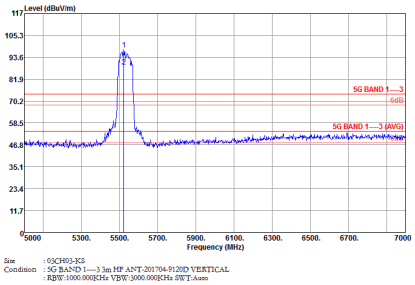
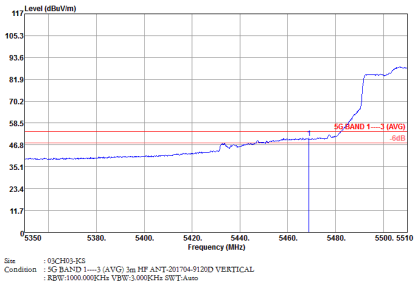
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH134 5670MHz - L	
1+2	Vertical	Fundamental
Peak	 Site : 03CH03-KS Condition : 5G BAND 1---3 3m HF ANT-201704-9120D VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH03-KS Condition : 5G BAND 1---3 3m HF ANT-201704-9120D HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH03-KS Condition : 5G BAND 1---3 (AVG) 3m HF ANT-201704-9120D VERTICAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto	

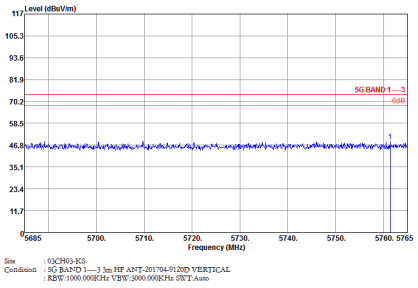
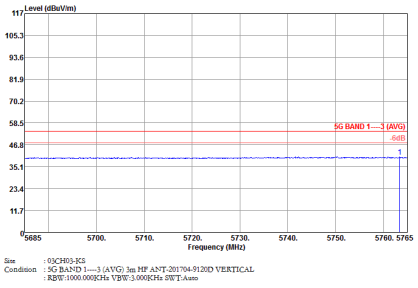
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH134 5670MHz - L	
1+2	Vertical	Fundamental
Peak		
Avg.		

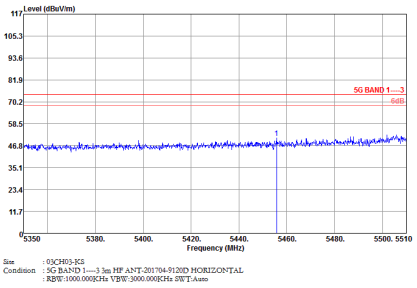
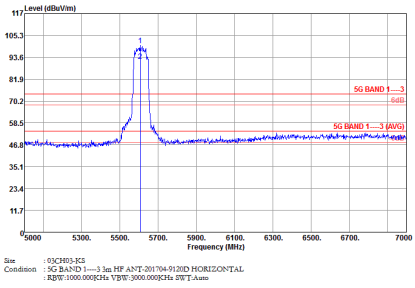
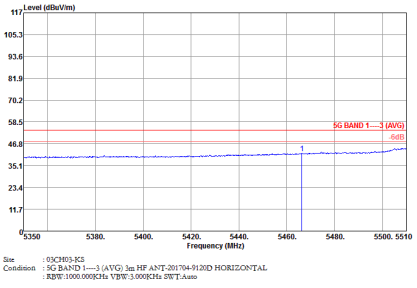
Band 3 5470~5725MHz
WIFI 802.11ac VHT80 (Band Edge @ 3m)

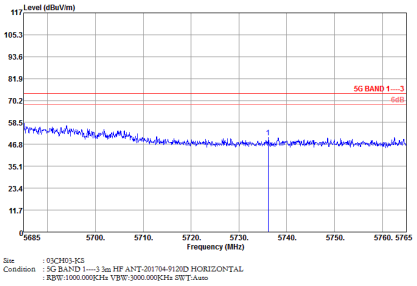
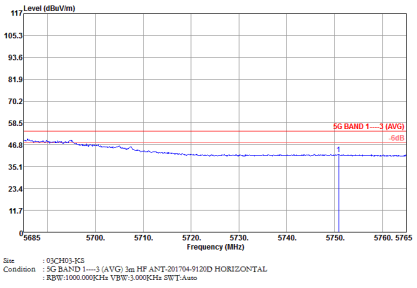
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH106 5530MHz - L	
1+2	Horizontal	Fundamental
Peak		
Avg.		

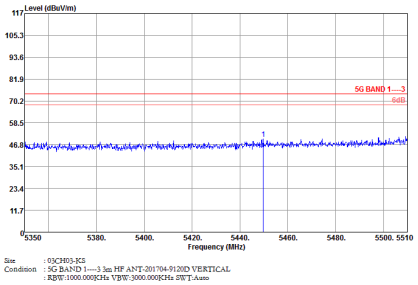
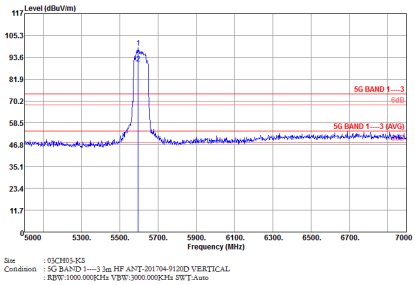
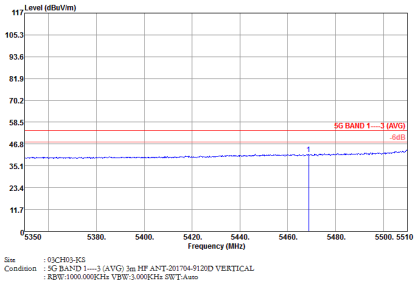
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH106 5530MHz - L	
1+2	Horizontal	Fundamental
Peak		
Avg.		

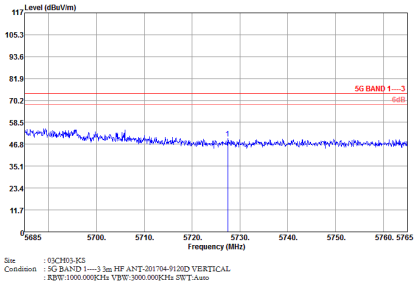
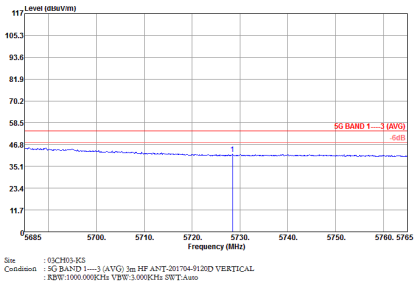
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH106 5530MHz - L	
1+2	Vertical	Fundamental
Peak		
Avg.		

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH106 5530MHz - L	
1+2	Vertical	Fundamental
Peak		
Avg.		

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH122 5610MHz - L	
1+2	Horizontal	Fundamental
Peak		
Avg.		

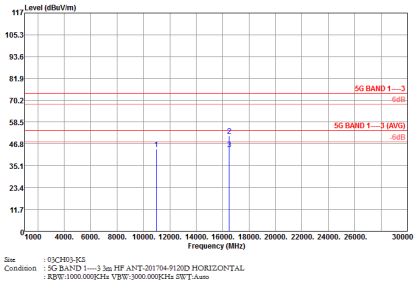
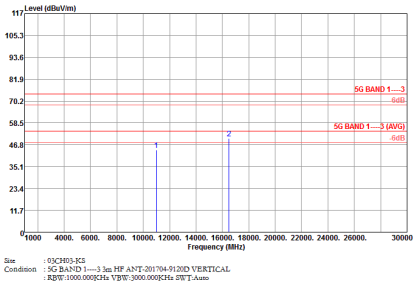
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH122 5610MHz - L	
1+2	Horizontal	Fundamental
Peak		
Avg.		

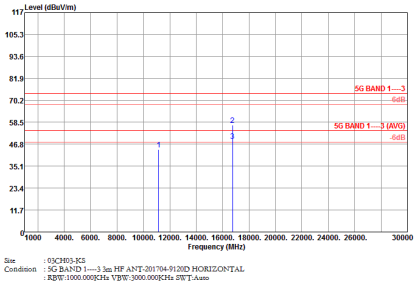
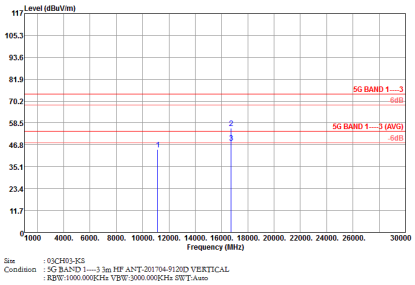
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH122 5610MHz - L	
1+2	Vertical	Fundamental
Peak		
Avg.		

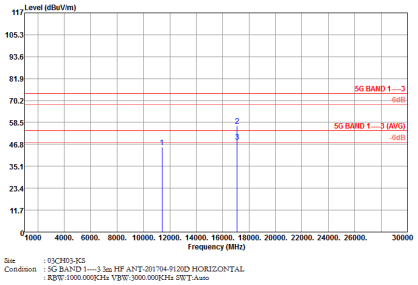
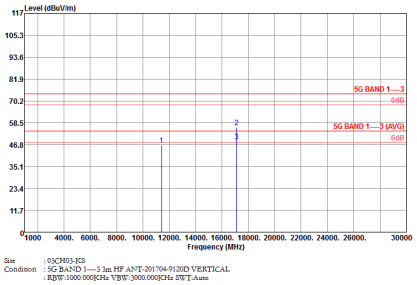
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH122 5610MHz - L	
1+2	Vertical	Fundamental
Peak		
Avg.		

Band 3 - 5470~5725MHz

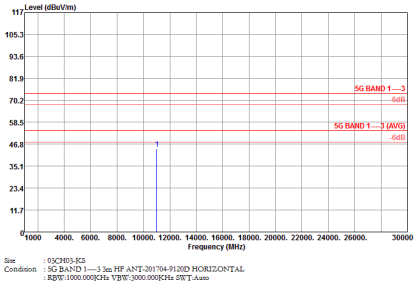
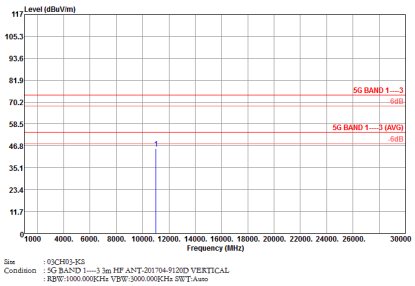
WIFI 802.11n HT20 (Harmonic @ 3m)

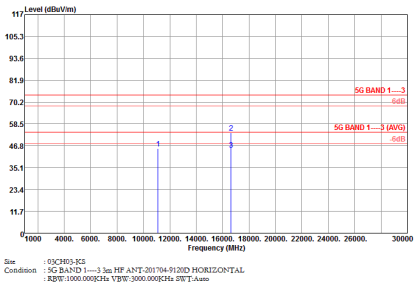
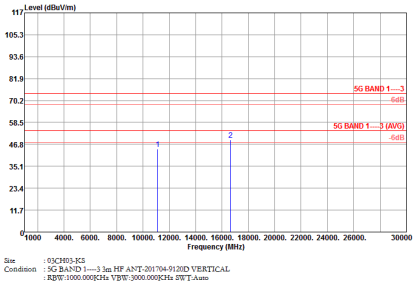
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11n HT20 CH100 5500MHz	
1+2	Horizontal	Vertical
Peak Avg.		

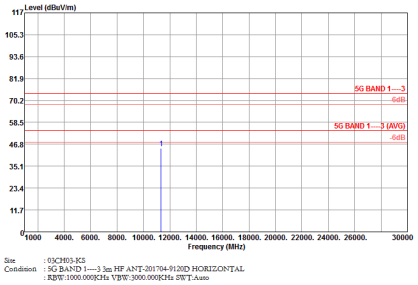
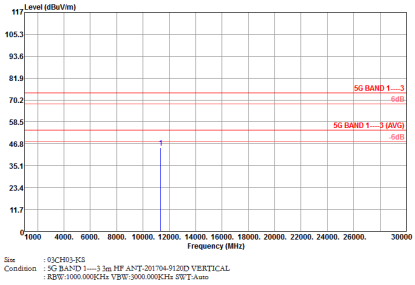
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11n HT20 CH116 5580MHz	
1+2	Horizontal	Vertical
Peak Avg.		

WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11n HT20 CH140 5700MHz	
1+2	Horizontal	Vertical
Peak Avg.		

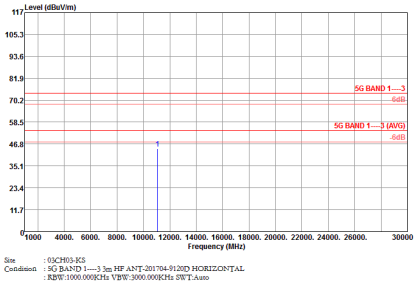
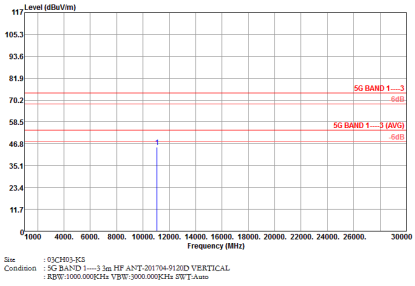
Band 3 5470~5725MHz
WIFI 802.11n HT40 (Harmonic @ 3m)

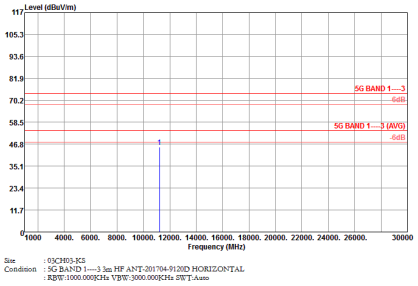
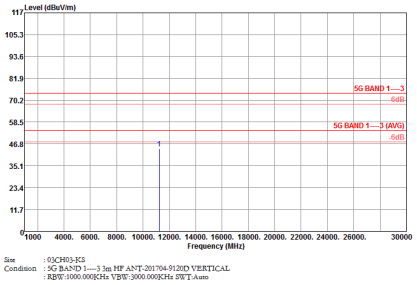
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11n HT40 CH102 5510MHz	
1+2	Horizontal	Vertical
Peak Avg.		

WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11n HT40 CH110 5550MHz	
1+2	Horizontal	Vertical
Peak Avg.		

WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11n HT40 CH134 5670MHz	
1+2	Horizontal	Vertical
Peak Avg.		

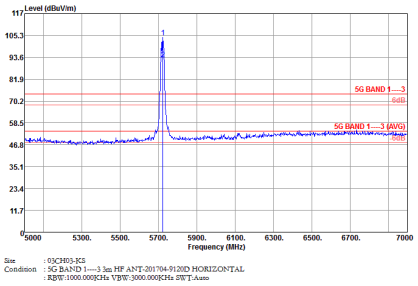
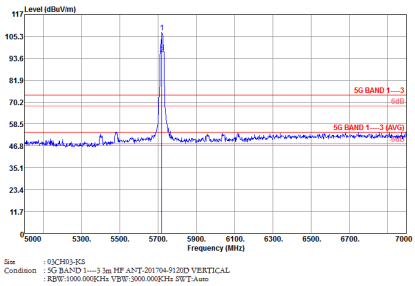
Band 3 5470~5725MHz
WIFI 802.11ac VHT80 (Harmonic @ 3m)

WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11ac VHT80 CH106 5530MHz	
1+2	Horizontal	Vertical
Peak Avg.		

WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11ac VHT80 CH122 5610MHz	
1+2	Horizontal	Vertical
Peak Avg.		

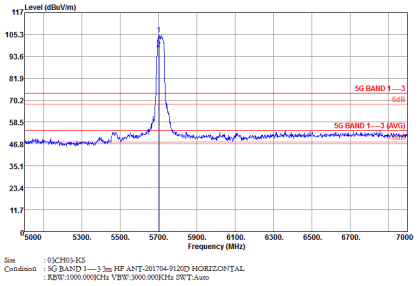
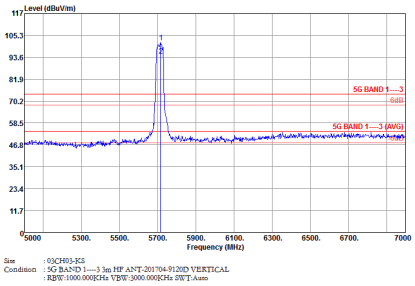
Band 3 - Straddle Channel

WIFI 802.11n HT20 (Fundamental @ 3m)

WIFI	Band 3 Straddle Channel Fundamental @ 3m	
ANT	802.11n HT20 CH144 5720MHz	
1+2	Horizontal	Vertical
Peak Avg.		

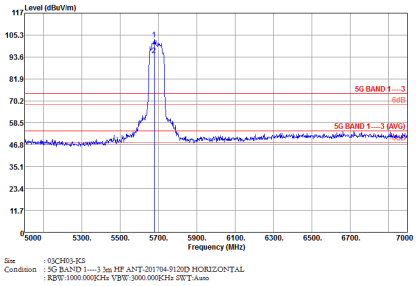
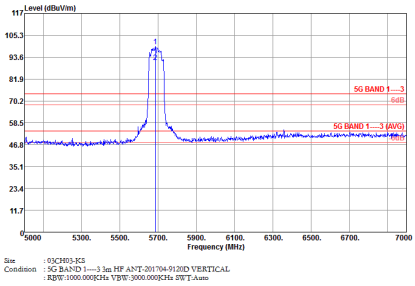
Band 3 – Straddle Channel

WIFI 802.11n HT40 (Fundamental @ 3m)

WIFI	Band 3 Straddle Channel Fundamental @ 3m	
ANT	802.11n HT40 CH142 5710MHz	
1+2	Horizontal	Vertical
Peak Avg.		

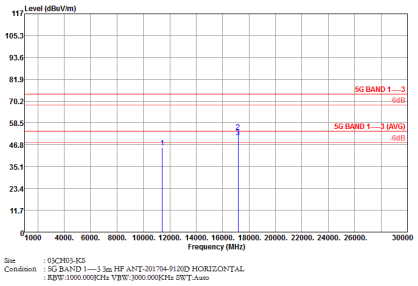
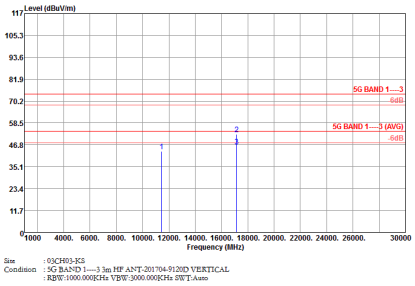
Band 3 – Straddle Channel

WIFI 802.11ac VHT80 (Fundamental @ 3m)

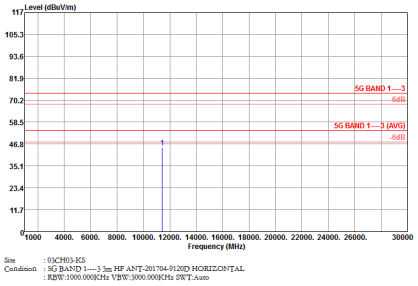
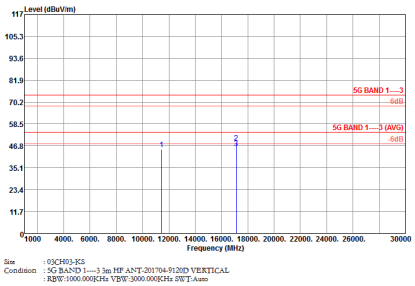
WIFI	Band 3 Straddle Channel Fundamental @ 3m	
ANT	802.11ac VHT80 CH138 5690MHz	
1+2	Horizontal	Vertical
Peak Avg.		

Band 3 - Straddle Channel

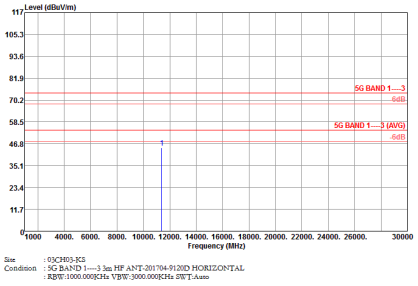
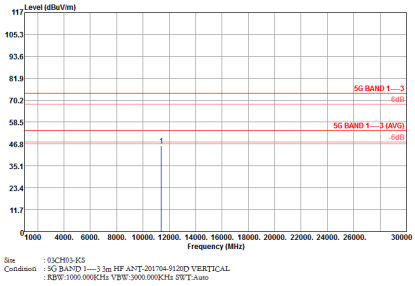
WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI	Band 3 Straddle Channel Harmonic @ 3m	
ANT	802.11n HT20 CH144 5720MHz	
1+2	Horizontal	Vertical
Peak Avg.		

Band 3 – Straddle Channel
WIFI 802.11n HT40 (Harmonic @ 3m)

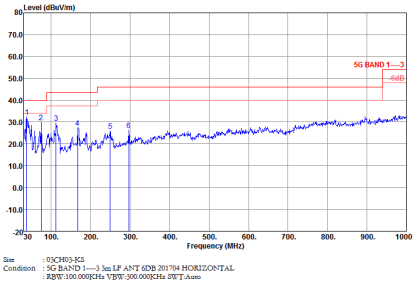
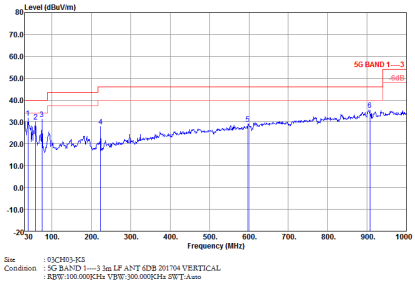
WIFI	Band 3 Straddle Channel Harmonic @ 3m	
ANT	802.11n HT40 CH142 5710MHz	
1+2	Horizontal	Vertical
Peak Avg.		

Band 3 – Straddle Channel
WIFI 802.11ac VHT80 (Harmonic @ 3m)

WIFI	Band 3 Straddle Channel Harmonic @ 3m	
ANT	802.11ac VHT80 CH138 5690MHz	
1+2	Horizontal	Vertical
Peak Avg.		

Emission below 1GHz

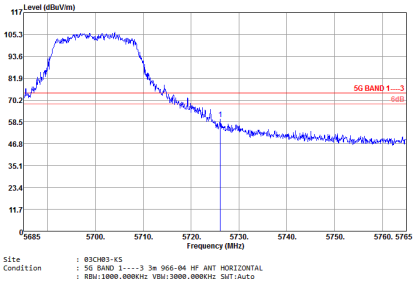
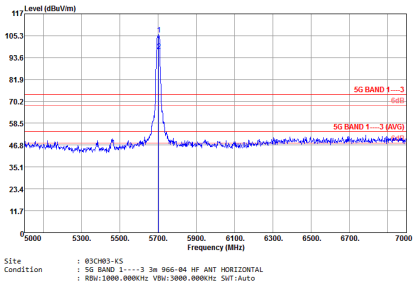
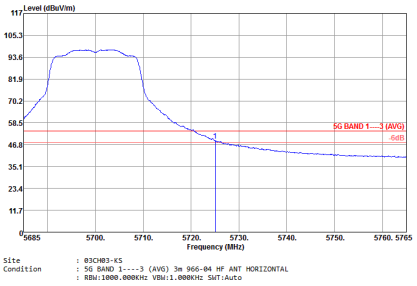
5GHz WIFI 802.11n HT20 (LF)

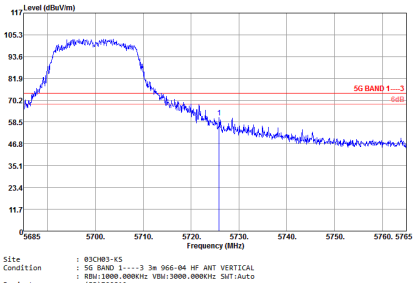
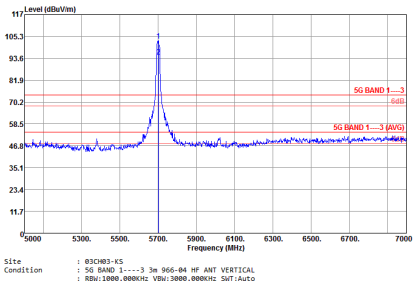
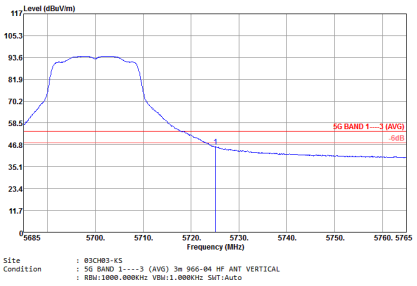
WIFI	5GHz WIFI	
ANT	802.11n HT20 LF	
1+2	Horizontal	Vertical
QP / Peak		

For Sample 2

Band 3 - 5470~5725MHz

WIFI 802.11n HT20 (Band Edge @ 3m)

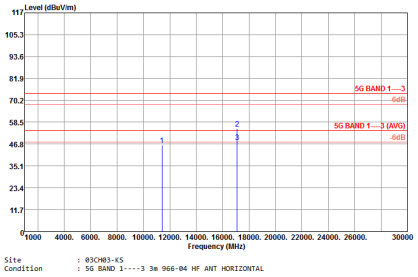
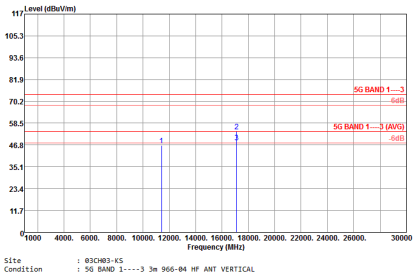
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH140 5700MHz	
1+2	Horizontal	Fundamental
Peak		
Avg.		

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH140 5700MHz	
1+2	Vertical	Fundamental
Peak		
Avg.		

Band 3 5470~5725MHz

Band 3 - 5470~5725MHz

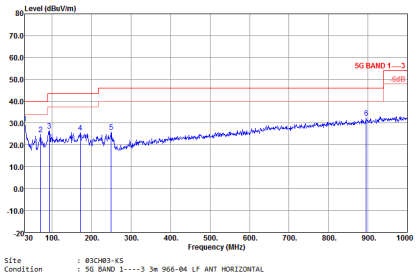
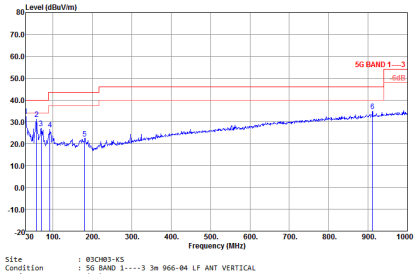
WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11n HT20 CH140 5700MHz	
1+2	Horizontal	Vertical
Peak Avg.		

Band 3 5470~5725MHz

Emission below 1GHz

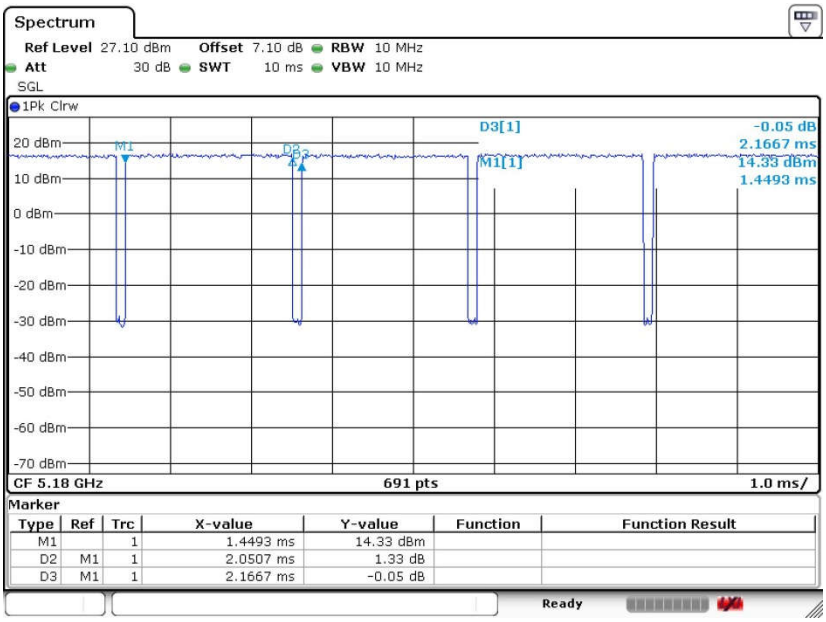
5GHz WIFI 802.11n HT20 (LF)

WIFI	5GHz WIFI	
ANT	802.11n HT20 LF	
1+2	Horizontal	Vertical
QP / Peak		

Appendix D. Duty Cycle Plots

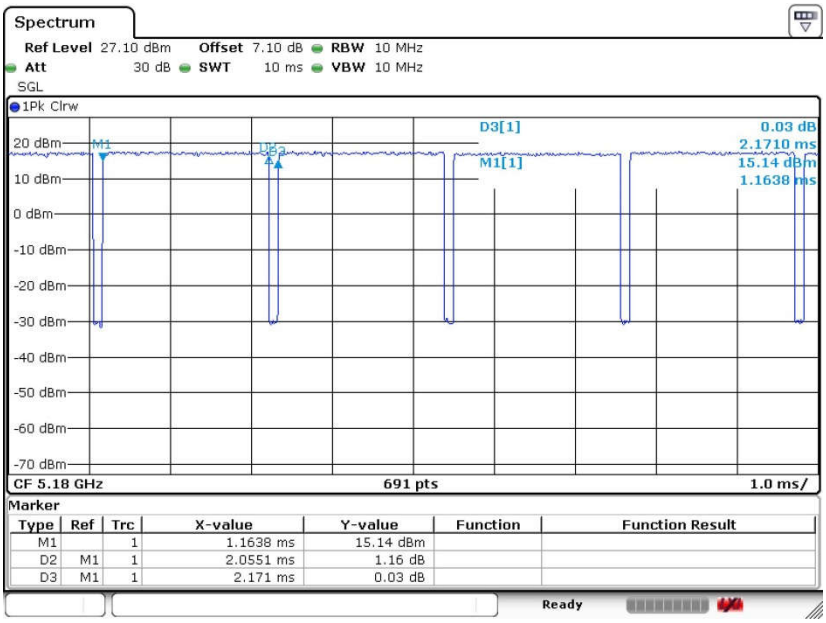
Antenna	Band	Duty Cycle(%)	T(ms)	1/T(kHz)	VBW Setting
1	802.11a	94.65	2.051	0.488	1KHz
2	802.11a	94.66	2.055	0.487	1KHz
1+2	802.11n HT20	95.64	1.910	0.524	1KHz
1+2	802.11n HT40	84.38	0.939	1.065	3KHz
1+2	802.11ac VHT80	84.08	0.459	2.179	3KHz

802.11a ANT.1



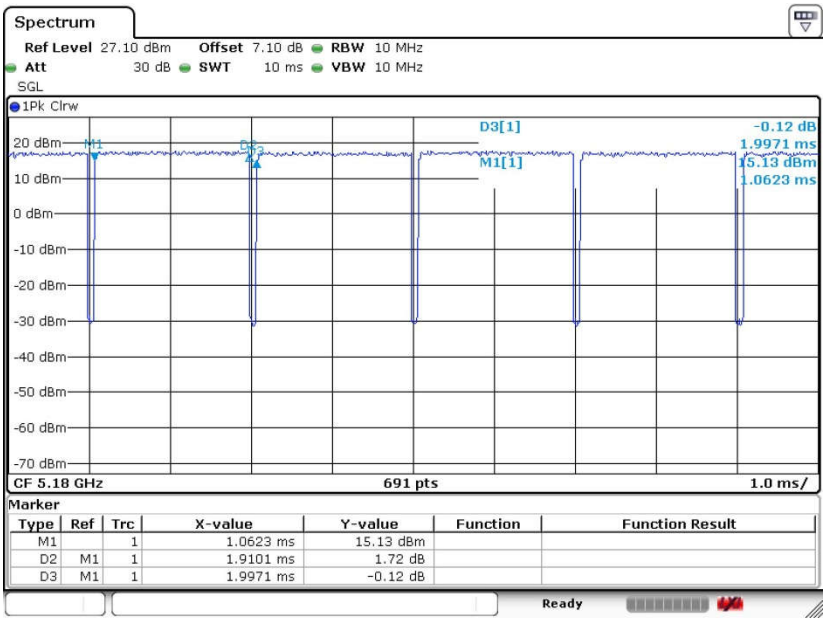
Date: 25.OCT.2017 15:06:31

802.11a ANT.2



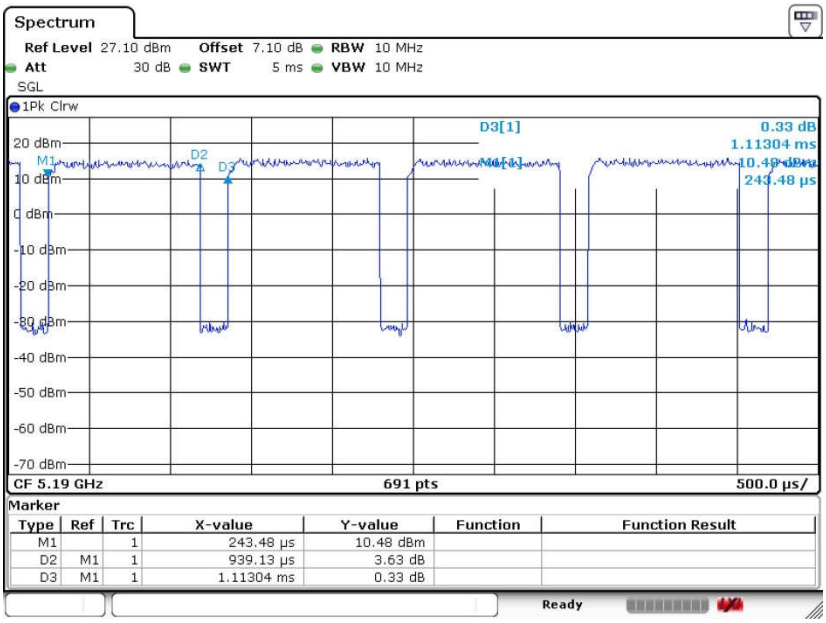
Date: 25.OCT.2017 17:12:33

802.11n HT20



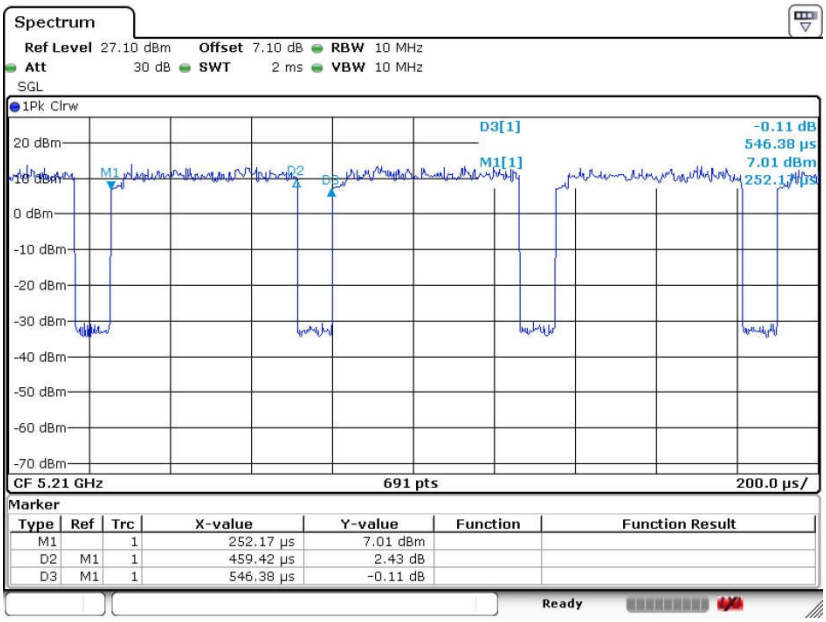
Date: 25.OCT.2017 17:53:44

802.11n HT40



Date: 25.OCT.2017 19:01:42

802.11ac VHT80



Date: 25.OCT.2017 19:44:17