



FCC RADIO TEST REPORT

FCC ID : MSQZ01QD
Equipment : ASUS Phone (Mobile Phone)
Brand Name : ASUS
Model name : ASUS_Z01QD
Applicant : ASUSTeK COMPUTER INC.
4F, No. 150, LI-TE RD., PEITOU, TAIPEI, TAIWAN
Manufacturer : Arima Communications (Jiangsu) Co., LTD
No. 168, Jiao Tong North Road, Wu Jiang, Su Zhou,
Jiang Su, PRC.
Standard : FCC Part 15 Subpart E §15.407

The product was received on May 24, 2018 and testing was started from Jun. 19, 2018 and completed on Jul. 14, 2018. We, SPORTON INTERNATIONAL INC., would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The report must not be used by the client to claim product certification, approval, or endorsement by TAF or any agency of government.

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

Approved by: Jones Tsai

SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory

No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)



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History of this test report

Report No.	Version	Description	Issued Date
FR852405F	01	Initial issue of report	Jul. 25, 2018

Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.1	15.403 (i)	6dB & 26dB Bandwidth	Pass	-
3.1	2.1049	99% Occupied Bandwidth	Reporting only	-
3.2	15.407 (a)	Maximum Conducted Output Power	Pass	-
3.3	15.407 (a)	Power Spectral Density	Pass	-
3.4	15.407(b)	Unwanted Emissions	Pass	Under limit 4.16 dB at 99.120 MHz
3.5	15.207	AC Conducted Emission	Pass	Under limit 7.98 dB at 0.152 MHz
3.6	15.407 (c)	Automatically Discontinue Transmission	Pass	-
3.7	15.203 & 15.407 (a)	Antenna Requirement	Pass	-

Reviewed by: Joseph Lin

Report Producer: Natasha Hsieh



1 General Description

1.1 Product Feature of Equipment Under Test

GSM/WCDMA/LTE, Bluetooth, Wi-Fi 2.4GHz 802.11b/g/n, Wi-Fi 5GHz 802.11a/n/ac, FM Receiver, NFC, WiGig, and GNSS

Product Specification subjective to this standard	
Antenna Type	WWAN: PIFA Antenna WLAN: PIFA Antenna Bluetooth: PIFA Antenna GPS/Glonass/Galileo/BDS: PIFA Antenna NFC: Loop Antenna WiGig: Patch Antenna FM: using earphone as antenna

1.2 Modification of EUT

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

1.3 Testing Location

Sporton Lab is accredited to ISO 17025 by Taiwan Accreditation Foundation (TAF code : 1190) and the FCC designation No. TW1190 and TW0007 under the FCC 2.948(e) by Mutual Recognition Agreement (MRA) in FCC Test.

Test Site	SPORTON INTERNATIONAL INC.	
Test Site Location	No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978	
Test Site No.	Sporton Site No.	
	TH05-HY	CO05-HY

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

Test Site	SPORTON INTERNATIONAL INC.	
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855	
Test Site No.	Sporton Site No.	
	03CH15-HY	

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



1.4 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 v02r01.
- ♦ 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

- a. 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: conduction emission (150 kHz to 30 MHz), radiation 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 (Y Plane for Antenna 1, Z plane for Antenna 2 and Antenna 1+2) were recorded in this report.
- b. AC power line Conducted Emission was tested under maximum output power.

2.1 Carrier Frequency and Channel

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
5725-5850 MHz Band 4 (U-NII-3)	149	5745	157	5785
	151*	5755	159*	5795
	153	5765	161	5805
	155 [#]	5775	165	5825

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 modes are considering the modulation and worse data rates as below table.

Single Mode

Modulation	Data Rate
802.11a	6 Mbps
802.11n HT20	MCS0
802.11n HT40	MCS0
802.11ac VHT20 (Covered by HT20)	MCS0
802.11ac VHT40 (Covered by HT40)	MCS0
802.11ac VHT80	MCS0

MIMO Mode

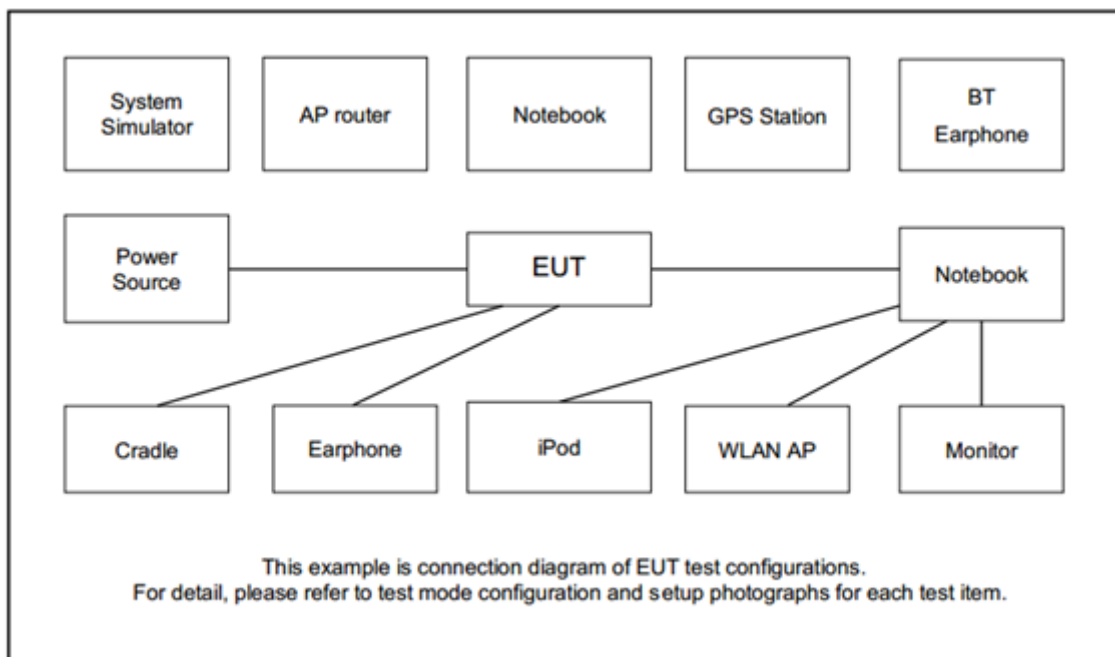
Modulation	Data Rate
802.11a	6 Mbps
802.11n HT20	MCS0
802.11n HT40	MCS0
802.11ac VHT20 (Covered by HT20)	MCS0
802.11ac VHT40 (Covered by HT40)	MCS0
802.11ac VHT80	MCS0

Test Cases

AC Conducted Emission	Mode 1: GSM850 Idle + Bluetooth Link + WLAN (5GHz) Link + NFC On + X Mode + Aura Sync + Pro Dongle Connect to JEDI (Bottom USB Port) + USB Type A - Port 1_Connect with USB 3.0 Storage Device + USB Type A – Port 2_Connect with USB 3.0 Storage Device + LAN Link + MPEG4 (Color Bar) + Pro Dongle (Charging from Adapter) + Copy Data Port 1 to 2 + SIM 1
------------------------------	--

Ch. #		Band IV : 5725-5850 MHz			
		802.11a	802.11n HT20	802.11n HT40	802.11ac VHT80
L	Low	149	149	151	-
M	Middle	157	157	-	155
H	High	165	165	159	-

2.3 Connection Diagram of Test System



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	ASUS	RT-AC66U	MSQ-RTAC66U	N/A	Unshielded, 1.8 m
3.	Notebook	DELL	Latitude E6320	FCC DoC/ Contains FCC ID: QDS-BRCM1054	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
4.	Notebook	DELL	Latitude 5480	FCC DoC	N/A	N/A
5.	Bluetooth Earphone	Sony	SBH20	PY7-RD0010	N/A	Unshielded, 1.8m
6.	USB 3.0 Flash Drive	Transcend	JetFlash700	FCC DoC	Shielded, 1.0m	N/A
7.	Pro Dongle	ASUS	ADSU001	FCC DoC	Unshielded, 0.63m	N/A
8.	Earphone	ASUS	EA009	N/A	Unshielded 0.84m	N/A

2.5 EUT Operation Test Setup

The RF test items, utility "QRCT" was installed in Notebook which was programmed in order to make the EUT get into the engineering modes to provide channel selection, power level, data rate and the application type and for continuous transmitting signals.



2.6 Measurement Results Explanation Example

For all conducted test items:

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

Example :

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

Offset = RF cable loss + attenuator factor.

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

$$\begin{aligned}\text{Offset(dB)} &= \text{RF cable loss(dB)} + \text{attenuator factor(dB)} \\ &= 4.2 + 10 = 14.2 \text{ (dB)}\end{aligned}$$

3 Test Result

3.1 6dB and 26dB and 99% Occupied Bandwidth Measurement

3.1.1 Description of 6dB and 26dB and 99% Occupied Bandwidth

The minimum 6 dB bandwidth shall be at least 500 kHz.

26dB and 99% Occupied bandwidth are reporting only.

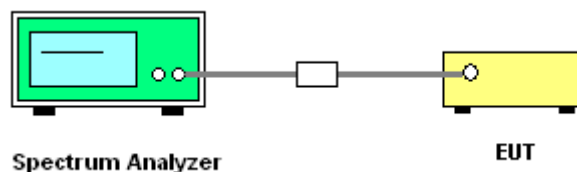
3.1.2 Measuring Instruments

See list of measuring equipment of this test report.

3.1.3 Test Procedures

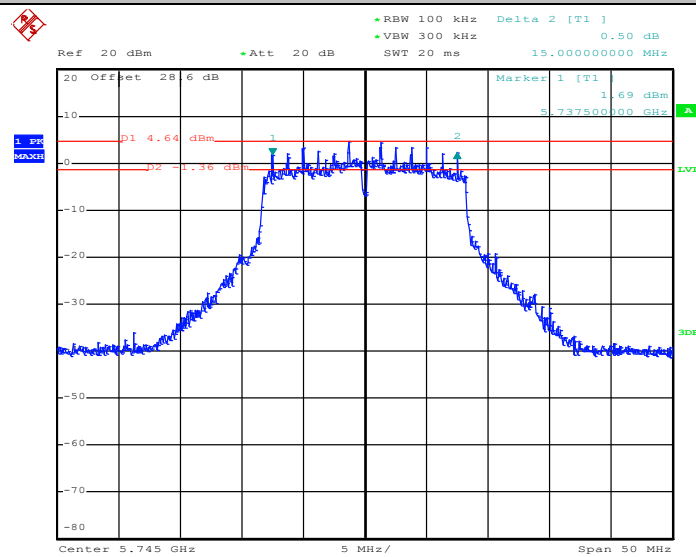
1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
Section C) Emission bandwidth for the band 5.725-5.85GHz
2. Set RBW = 100kHz.
3. Set the VBW $\geq 3 \times$ RBW.
4. Detector = Peak.
5. Trace mode = max hold
6. Measure the maximum width of the emission that is 6 dB down from the peak of the emission.
7. Measure and record the results in the test report.

3.1.4 Test Setup

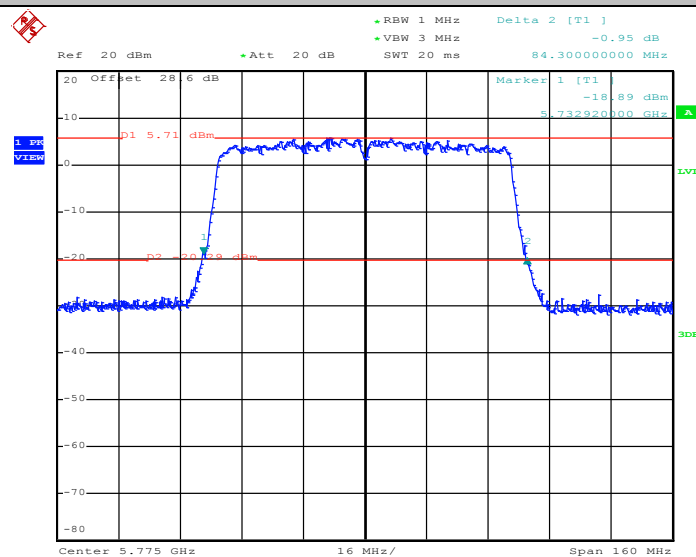


3.1.5 Test Result of 6dB Bandwidth

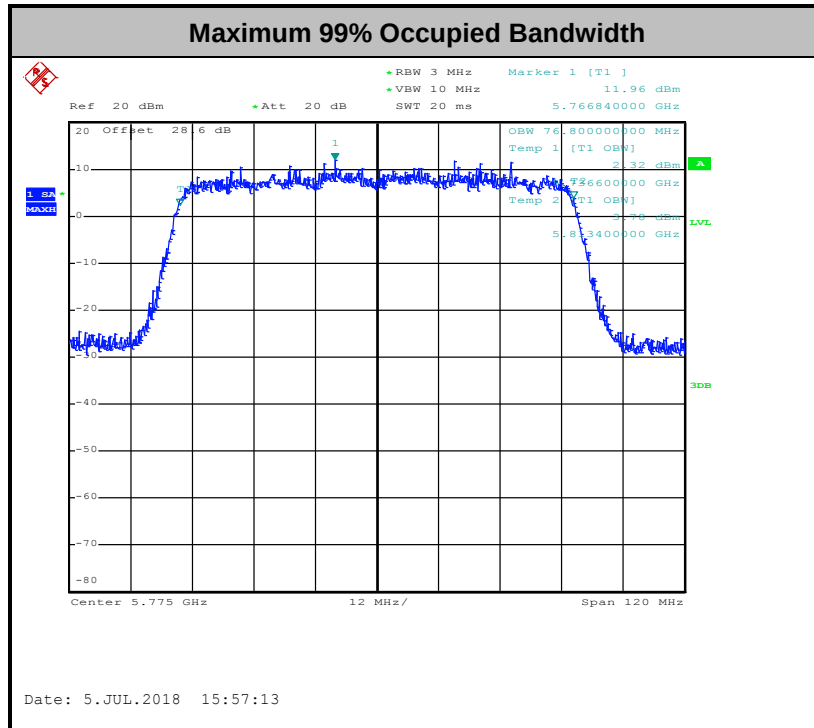
Please refer to Appendix A.

**Minimum 6dB Bandwidth**

Date: 5.JUL.2018 11:03:48

Maximum 26dB Bandwidth

Date: 5.JUL.2018 15:55:21



Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

3.2 Maximum Conducted Output Power Measurement

3.2.1 Limit of Maximum Conducted Output Power

For the band 5.725–5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W.

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

3.2.2 Measuring Instruments

See list of measuring equipment of this test report.

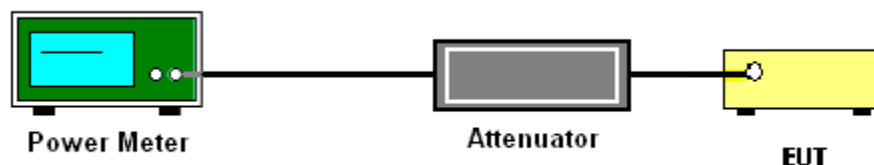
3.2.3 Test Procedures

The testing follows Method PM of FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.

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

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

3.2.4 Test Setup



3.2.5 Test Result of Maximum Conducted Output Power

Please refer to Appendix A.



3.3 Power Spectral Density Measurement

3.3.1 Limit of Power Spectral Density

For the band 5.725–5.85 GHz, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band.

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

3.3.2 Measuring Instruments

See list of measuring equipment of this test report.

3.3.3 Test Procedures

The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
Section F) Maximum power spectral density.

Method SA-2

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

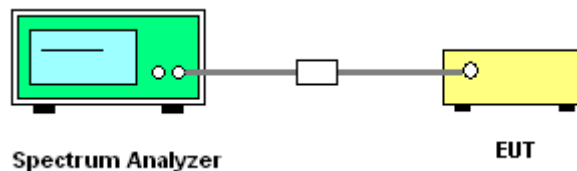
- Measure the duty cycle.
- Set span to encompass the entire emission bandwidth (EBW) of the signal.
- Set RBW = 300 kHz.
- Set VBW $\geq$ 1 MHz.
- Number of points in sweep $\geq$ 2 Span / RBW.
- Sweep time = auto.
- Detector = RMS
- Trace average at least 100 traces in power averaging mode.
- Add $10 \log(500\text{kHz}/\text{RBW})$ to the test result.
- Add $10 \log(1/x)$, where x is the duty cycle, to the measured power in order to compute the average power during the actual transmission times. For example, add $10 \log(1/0.25) = 6$ dB if the duty cycle is 25 percent.

1. The RF output of EUT was connected to the spectrum analyzer by a low loss cable.
2. Each plot has already offset with cable loss, and attenuator loss. Measure the PPSD and record it.
3. For MIMO mode, calculation method follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01.

Method (c): Measure and add $10 \log(N_{\text{ANT}})$ dB.

With this technique, spectrum measurements are performed at each output of the device, but rather than summing the spectra or the spectral peaks across the outputs, the quantity $10 \log(N_{\text{ANT}})$ dB is added to each spectrum value before comparing to the emission limit. The addition of $10 \log(N_{\text{ANT}})$ dB serves to apportion the emission limit among the N_{ANT} outputs so that each output is permitted to contribute no more than $1/N_{\text{ANT}}^{\text{th}}$ of the PSD limit.

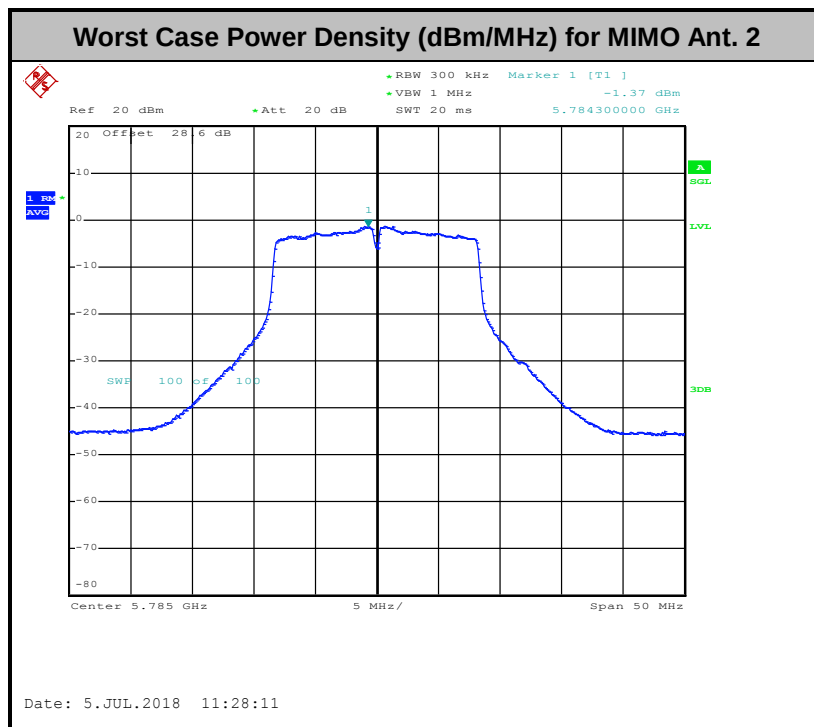
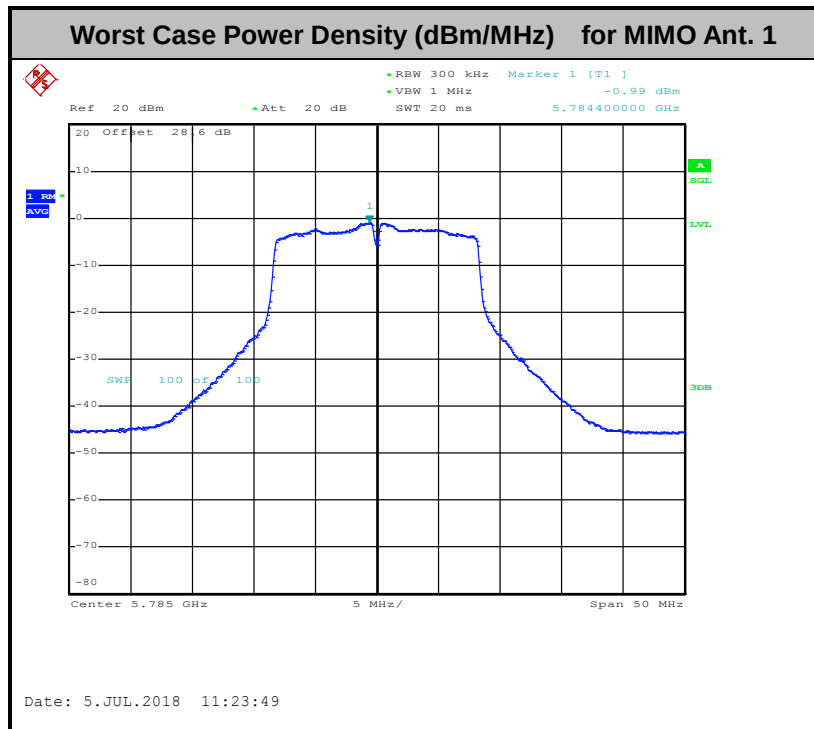
3.3.4 Test Setup





3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.



3.4 Unwanted Emissions Measurement

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

3.4.1 Limit of Unwanted Emissions

- (1) For transmitters operating in the 5.725-5.85 GHz band:

15.407(b)(4)(i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

- (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.

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

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

(3) KDB789033 D02 v02r01 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).

3.4.2 Measuring Instruments

See list of measuring equipment of this test report.

3.4.3 Test Procedures

1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01. 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

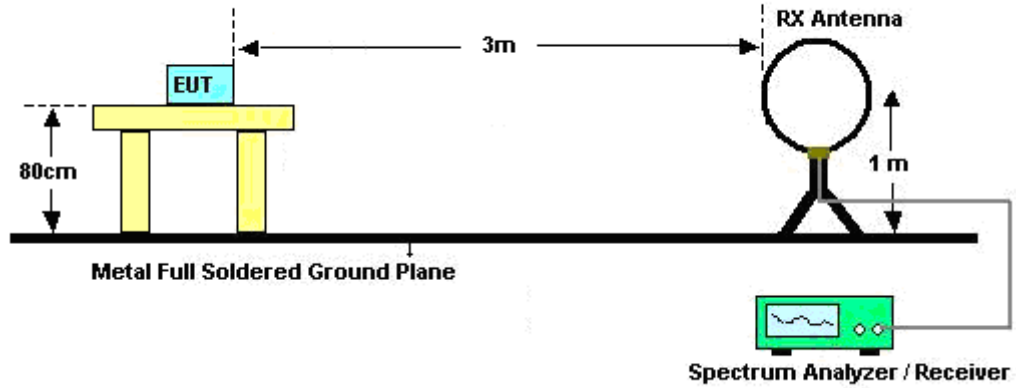


(3) Procedures for Average Unwanted Emissions Measurements Above 1000MHz

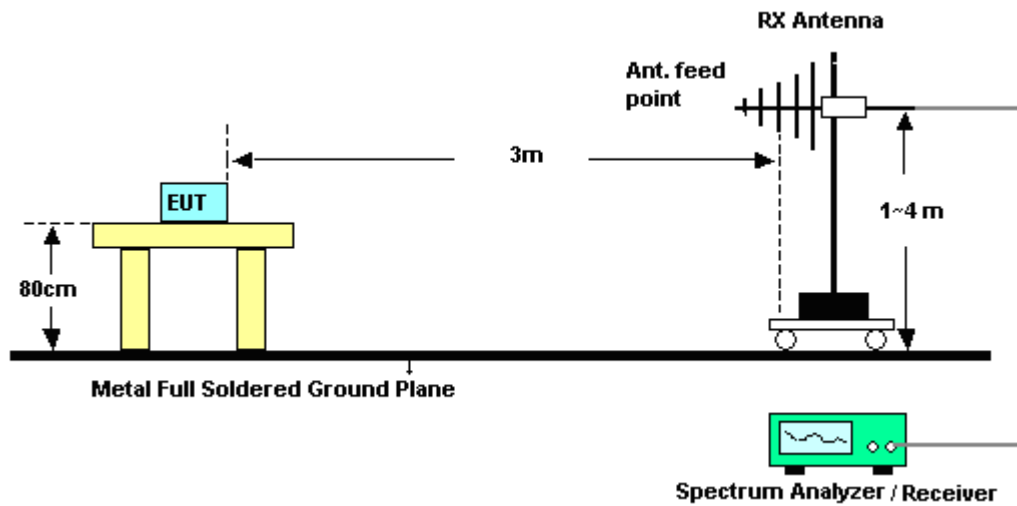
- RBW = 1 MHz
 - VBW = 10 Hz, when duty cycle is no less than 98 percent.
 - $VBW \geq 1/T$, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.
2. 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.

3.4.4 Test Setup

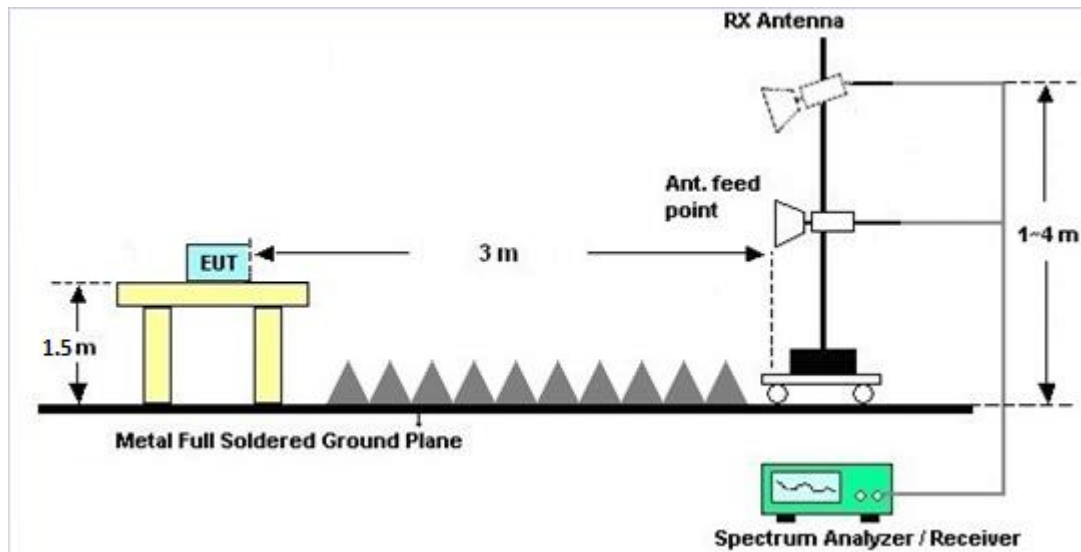
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



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

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

There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

3.4.6 Test Result of Radiated Band Edges

Please refer to Appendix C and D.

3.4.7 Duty Cycle

Please refer to Appendix E.

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

Please refer to Appendix C and D.

3.5 AC Conducted Emission Measurement

3.5.1 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 (dB μ V)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

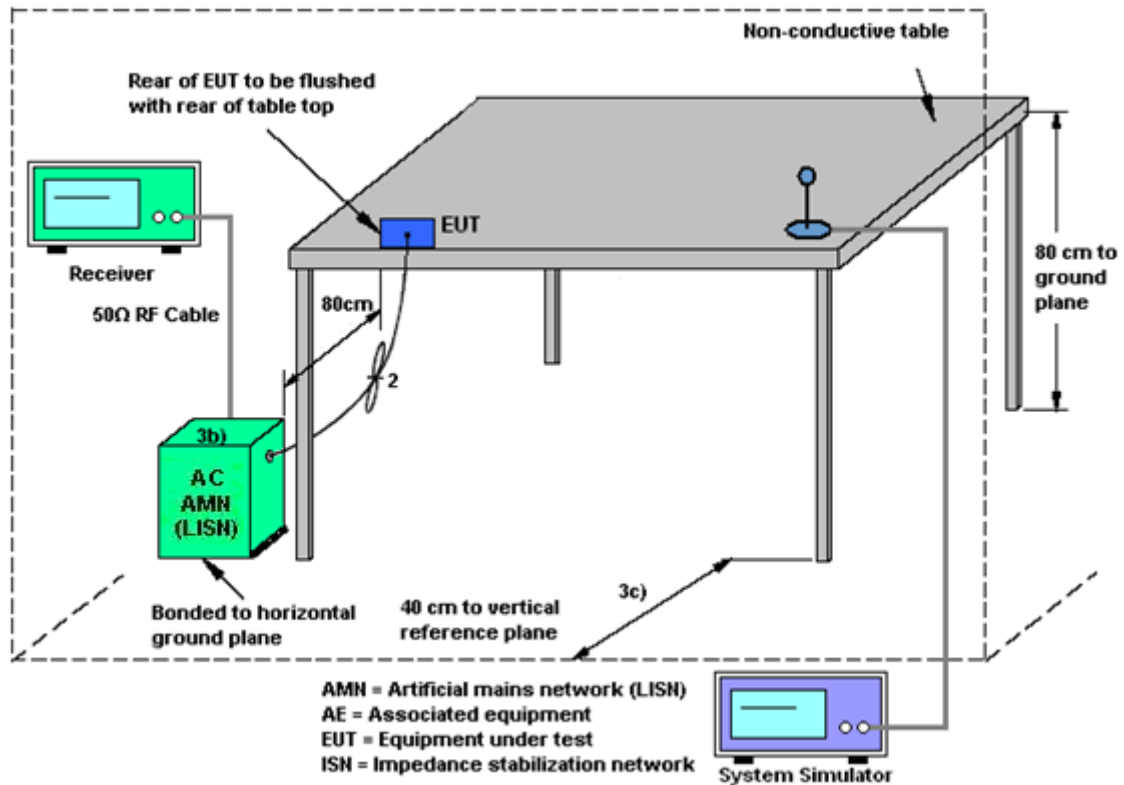
3.5.2 Measuring Instruments

See list of measuring equipment of this test report.

3.5.3 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.

3.5.4 Test Setup



3.5.5 Test Result of AC Conducted Emission

Please refer to Appendix B.

3.6 Automatically Discontinue Transmission

3.6.1 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.

3.6.2 Measuring Instruments

See list of measuring equipment of this test report.

3.6.3 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.

3.7 Antenna Requirements

3.7.1 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.

3.7.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.7.3 Antenna Gain

<CDD Modes >

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

For CDD transmissions, directional gain is calculated as

Directional gain = G_{ANT} + Array Gain, where Array Gain is as follows.

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

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

For power measurements on IEEE 802.11 devices,

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

Directional gain may be calculated by using the formulas applicable to equal gain antennas with G_{ANT} set equal to the gain of the antenna having the highest gain;

The EUT supports CDD mode.

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.

<CDD Modes>						
			DG	DG	Power	PSD
			for	for	Limit	Limit
	Ant. 1	Ant. 2	Power	PSD	Reduction	Reduction
	(dBi)	(dBi)	(dBi)	(dBi)	(dB)	(dB)
Band IV	-1.85	2.02	2.02	3.31	0.00	0.00

Power Limit Reduction = $DG(\text{Power}) - 6\text{dBi}$, (min = 0)

PSD Limit Reduction = $DG(\text{PSD}) - 6\text{dBi}$, (min = 0)



4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Power Meter	Anritsu	ML2495A	1240001	N/A	Sep. 07, 2017	Jun. 19, 2018 ~ Jul. 05, 2018	Sep. 06, 2018	Conducted (TH05-HY)
Power Sensor	Anritsu	MA2411B	1207349	300MHz~40GHz	Sep. 07, 2017	Jun. 19, 2018 ~ Jul. 05, 2018	Sep. 06, 2018	Conducted (TH05-HY)
Spectrum Analyzer	Rohde & Schwarz	FSP40	100057	9kHz-40GHz	Nov. 21, 2017	Jun. 19, 2018 ~ Jul. 05, 2018	Nov. 20, 2018	Conducted (TH05-HY)
Switch Box & RF Cable	Burgeon	ETF-058	EC1300484	N/A	Mar. 01, 2018	Jun. 19, 2018 ~ Jul. 05, 2018	Feb. 28, 2019	Conducted (TH05-HY)
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Jul. 14, 2018	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102388	3.6GHz	Dec. 08, 2017	Jul. 14, 2018	Dec. 07, 2018	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100080	9kHz~30MHz	Nov. 30, 2017	Jul. 14, 2018	Nov. 29, 2018	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100081	9kHz~30MHz	Dec. 08, 2017	Jul. 14, 2018	Dec. 07, 2018	Conduction (CO05-HY)
Software	Rohde & Schwarz	EMC32 V10.30	N/A	N/A	N/A	Jul. 14, 2018	N/A	Conduction (CO05-HY)
LF Cable	HUBER + SUHNER	RG-214/U	LF01	N/A	Jan. 03, 2018	Jul. 14, 2018	Jan. 02, 2019	Conduction (CO05-HY)
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100851	N/A	Jan. 03, 2018	Jul. 14, 2018	Jan. 02, 2019	Conduction (CO05-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100488	9 kHz~30 MHz	Nov. 23, 2017	Jun. 14, 2018 ~ Jul. 08, 2018	Nov. 22, 2018	Radiation (03CH15-HY)
Preamplifier	Jet-Power	JPA00101800-30-10P	1601180002	1GHz~18GHz	Jul. 31, 2017	Jun. 14, 2018 ~ Jul. 08, 2018	Jul. 30, 2018	Radiation (03CH15-HY)
Amplifier	SONOMA	310N	363440	9kHz~1GHz	Dec. 26, 2017	Jun. 14, 2018 ~ Jul. 08, 2018	Dec. 25, 2018	Radiation (03CH15-HY)
Bilog Antenna	TESEQ	CBL6111D&00800N1D01N-06	41912&05	30MHz to 1GHz	Jan. 10, 2018	Jun. 14, 2018 ~ Jul. 08, 2018	Jan. 09, 2019	Radiation (03CH15-HY)
EMI Test Receiver	Keysight	N9038A(MXE)	MY54130085	20Hz ~ 8.4GHz	Oct. 31, 2017	Jun. 14, 2018 ~ Jul. 08, 2018	Oct. 30, 2018	Radiation (03CH15-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120D	9120D-1620	1G~18GHz	Oct. 03, 2017	Jun. 14, 2018 ~ Jul. 08, 2018	Oct. 02, 2018	Radiation (03CH15-HY)
Preamplifier	Keysight	83017A	MY53270195	1GHz~26.5GHz	Aug. 21, 2017	Jun. 14, 2018 ~ Jul. 08, 2018	Aug. 20, 2018	Radiation (03CH15-HY)
Spectrum Analyzer	Agilent	E4446A	MY50180136	3Hz~44GHz	Apr. 25, 2018	Jun. 14, 2018 ~ Jul. 08, 2018	Apr. 24, 2019	Radiation (03CH15-HY)
Antenna Mast	ChainTek	MBS-520-1	N/A	1m~4m	N/A	Jun. 14, 2018 ~ Jul. 08, 2018	N/A	Radiation (03CH15-HY)
Turn Table	ChainTek	T-200-S-1	N/A	0~360 Degree	N/A	Jun. 14, 2018 ~ Jul. 08, 2018	N/A	Radiation (03CH15-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170584	18GHz- 40GHz	Nov. 27, 2017	Jun. 14, 2018 ~ Jul. 08, 2018	Nov. 26, 2018	Radiation (03CH15-HY)
Software	Audix	E3 6.2009-8-24	RK-001042	N/A	N/A	Jun. 14, 2018 ~ Jul. 08, 2018	N/A	Radiation (03CH15-HY)
RF Cable	HUBER + SUHNER / MTJ Cooperation	SUCOFLEX 104 / 000000-MT18 A-100	MY36980/4, MY9838/4 PE, D3210	30MHz~1GHz	Mar. 15, 2018	Jun. 14, 2018 ~ Jul. 08, 2018	Mar. 14, 2019	Radiation (03CH15-HY)
RF Cable	HUBER + SUHNER / MTJ Cooperation	SUCOFLEX 104 / 000000-MT18 A-100	MY36980/4, MY9838/4 PE, D3210	1GHz~18GHz	Mar. 15, 2018	Jun. 14, 2018 ~ Jul. 08, 2018	Mar. 14, 2019	Radiation (03CH15-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	505134/2	30M~40GHz	Oct. 17, 2017	Jun. 14, 2018 ~ Jul. 08, 2018	Oct. 16, 2018	Radiation (03CH15-HY)
Preamplifier	EMEC	EM18G40G	060715	18GHz ~ 40GHz	Dec. 05, 2017	Jun. 14, 2018 ~ Jul. 08, 2018	Dec. 04, 2018	Radiation (03CH15-HY)

5 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	2.7
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Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.2
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Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.5
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Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.2
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Appendix A. Test Result of Conducted Test Items

Test Engineer:	Luffy Lin/Lena Lo	Temperature:	21~25	°C
Test Date:	2018/6/19~2018/07/05	Relative Humidity:	51~54	%

TEST RESULTS DATA
6dB and 26dB EBW and 99% OBW

Band IV												
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	99% Bandwidth (MHz)		26dB Bandwidth (MHz)		6 dB Bandwidth (MHz)		6 dB Bandwidth Min. Limit (MHz)	Pass/Fail
					Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	1	149	5745	17.10	16.80	29.20	25.70	15.30	15.50	0.5	Pass
11a	6Mbps	1	157	5785	17.00	16.80	26.40	25.05	15.50	15.30	0.5	Pass
11a	6Mbps	1	165	5825	17.10	16.75	29.05	25.10	15.50	15.35	0.5	Pass
HT20	MCS0	1	149	5745	18.10	17.95	29.35	26.35	15.95	15.95	0.5	Pass
HT20	MCS0	1	157	5785	18.05	17.95	28.91	26.05	16.75	15.10	0.5	Pass
HT20	MCS0	1	165	5825	18.15	17.95	28.90	26.70	15.70	15.90	0.5	Pass
HT40	MCS0	1	151	5755	36.90	36.70	42.12	41.94	34.97	35.14	0.5	Pass
HT40	MCS0	1	159	5795	36.80	36.60	41.87	41.94	35.01	35.54	0.5	Pass
VHT80	MCS0	1	155	5775	76.56	76.80	84.16	84.30	75.20	75.20	0.5	Pass
11a	6Mbps	2	149	5745	16.65	16.65	23.70	23.75	15.00	15.60	0.5	Pass
11a	6Mbps	2	157	5785	16.70	16.65	24.45	23.90	15.50	15.70	0.5	Pass
11a	6Mbps	2	165	5825	16.65	16.65	23.70	23.85	15.10	15.15	0.5	Pass
HT20	MCS0	2	149	5745	17.75	17.85	25.35	25.45	15.05	16.25	0.5	Pass
HT20	MCS0	2	157	5785	17.90	17.90	25.85	25.15	16.75	16.00	0.5	Pass
HT20	MCS0	2	165	5825	17.85	17.85	24.85	24.80	15.15	15.15	0.5	Pass
HT40	MCS0	2	151	5755	36.60	36.60	41.76	42.30	35.19	35.19	0.5	Pass
HT40	MCS0	2	159	5795	36.70	36.50	41.46	41.94	35.01	35.17	0.5	Pass
VHT80	MCS0	2	155	5775	76.56	76.68	83.68	83.76	75.20	75.20	0.5	Pass

TEST RESULTS DATA
Average Power Table

Band IV														
Mod.	Data Rate	N _{TX}	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	149	5745	0.10	0.10	16.38	16.13		30.00	30.00	-1.85	2.02	Pass
11a	6Mbps	1	157	5785	0.10	0.10	16.37	16.24		30.00	30.00	-1.85	2.02	Pass
11a	6Mbps	1	165	5825	0.10	0.10	16.17	16.43		30.00	30.00	-1.85	2.02	Pass
HT20	MCS0	1	149	5745	0.11	0.11	16.10	16.23		30.00	30.00	-1.85	2.02	Pass
HT20	MCS0	1	157	5785	0.11	0.11	16.16	16.37		30.00	30.00	-1.85	2.02	Pass
HT20	MCS0	1	165	5825	0.11	0.11	16.09	16.11		30.00	30.00	-1.85	2.02	Pass
HT40	MCS0	1	151	5755	0.22	0.23	16.22	16.47		30.00	30.00	-1.85	2.02	Pass
HT40	MCS0	1	159	5795	0.22	0.23	16.08	16.23		30.00	30.00	-1.85	2.02	Pass
VHT20	MCS0	1	149	5745	0.11	0.11	16.07	16.21		30.00	30.00	-1.85	2.02	Pass
VHT20	MCS0	1	157	5785	0.11	0.11	16.13	16.28		30.00	30.00	-1.85	2.02	Pass
VHT20	MCS0	1	165	5825	0.11	0.11	16.07	16.09		30.00	30.00	-1.85	2.02	Pass
VHT40	MCS0	1	151	5755	0.22	0.22	16.17	16.32		30.00	30.00	-1.85	2.02	Pass
VHT40	MCS0	1	159	5795	0.22	0.22	16.03	16.15		30.00	30.00	-1.85	2.02	Pass
VHT80	MCS0	1	155	5775	0.23	0.29	14.94	14.87		30.00	30.00	-1.85	2.02	Pass
11a	6Mbps	2	149	5745	0.13	0.13	12.87	13.46	16.18	30.00		2.02		Pass
11a	6Mbps	2	157	5785	0.13	0.13	13.52	13.44	16.49	30.00		2.02		Pass
11a	6Mbps	2	165	5825	0.13	0.13	13.24	13.65	16.46	30.00		2.02		Pass
HT20	MCS0	2	149	5745	0.11	0.11	12.95	13.43	16.20	30.00		2.02		Pass
HT20	MCS0	2	157	5785	0.11	0.11	13.07	13.07	16.08	30.00		2.02		Pass
HT20	MCS0	2	165	5825	0.11	0.11	12.87	13.83	16.38	30.00		2.02		Pass
HT40	MCS0	2	151	5755	0.18	0.18	13.26	13.46	16.37	30.00		2.02		Pass
HT40	MCS0	2	159	5795	0.18	0.18	13.18	13.26	16.23	30.00		2.02		Pass
VHT20	MCS0	2	149	5745	0.14	0.11	12.95	13.36	16.17	30.00		2.02		Pass
VHT20	MCS0	2	157	5785	0.14	0.11	13.07	13.06	16.08	30.00		2.02		Pass
VHT20	MCS0	2	165	5825	0.14	0.11	12.84	13.79	16.35	30.00		2.02		Pass
VHT40	MCS0	2	151	5755	0.18	0.18	13.20	13.38	16.30	30.00		2.02		Pass
VHT40	MCS0	2	159	5795	0.18	0.18	13.15	13.21	16.19	30.00		2.02		Pass
VHT80	MCS0	2	155	5775	0.23	0.23	11.90	11.99	14.95	30.00		2.02		Pass

TEST RESULTS DATA
Power Spectral Density

Band IV																
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	Duty Factor (dB)		10log (500kHz /RBW) Factor (dB)		Average Power Density (dBm/500kHz)			Average PSD Limit (dBm/500kHz)		DG (dBi)		Pass /Fail
					Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	1	149	5745	0.10	0.10	2.22	2.22	2.22	1.71		30.00	30.00	-1.85	2.02	Pass
11a	6Mbps	1	157	5785	0.10	0.10	2.22	2.22	1.99	1.14		30.00	30.00	-1.85	2.02	Pass
11a	6Mbps	1	165	5825	0.10	0.10	2.22	2.22	1.67	1.26		30.00	30.00	-1.85	2.02	Pass
HT20	MCS0	1	149	5745	0.11	0.11	2.22	2.22	1.89	1.52		30.00	30.00	-1.85	2.02	Pass
HT20	MCS0	1	157	5785	0.11	0.11	2.22	2.22	1.55	1.21		30.00	30.00	-1.85	2.02	Pass
HT20	MCS0	1	165	5825	0.11	0.11	2.22	2.22	1.38	1.33		30.00	30.00	-1.85	2.02	Pass
HT40	MCS0	1	151	5755	0.22	0.23	2.22	2.22	-1.17	-1.32		30.00	30.00	-1.85	2.02	Pass
HT40	MCS0	1	159	5795	0.22	0.23	2.22	2.22	-1.59	-2.01		30.00	30.00	-1.85	2.02	Pass
VHT80	MCS0	1	155	5775	0.23	0.29	2.22	2.22	-7.17	-8.12		30.00	30.00	-1.85	2.02	Pass
11a	6Mbps	2	149	5745	0.13	0.13	2.22		-1.43	-0.93	4.30	30.00		3.31		Pass
11a	6Mbps	2	157	5785	0.13	0.13	2.22		-0.86	-1.24	4.37	30.00		3.31		Pass
11a	6Mbps	2	165	5825	0.13	0.13	2.22		-1.60	-1.22	4.01	30.00		3.31		Pass
HT20	MCS0	2	149	5745	0.11	0.11	2.22		-1.21	-1.77	4.02	30.00		3.31		Pass
HT20	MCS0	2	157	5785	0.11	0.11	2.22		-1.14	-1.51	4.09	30.00		3.31		Pass
HT20	MCS0	2	165	5825	0.11	0.11	2.22		-2.25	-1.57	3.66	30.00		3.31		Pass
HT40	MCS0	2	151	5755	0.18	0.18	2.22		-4.71	-4.99	0.52	30.00		3.31		Pass
HT40	MCS0	2	159	5795	0.18	0.18	2.22		-4.64	-5.11	0.59	30.00		3.31		Pass
VHT80	MCS0	2	155	5775	0.23	0.23	2.22		-10.19	-10.89	-4.96	30.00		3.31		Pass

Note: PSD Sum = Max PSD(Ant. 1, Ant. 2) + 10 log (n)



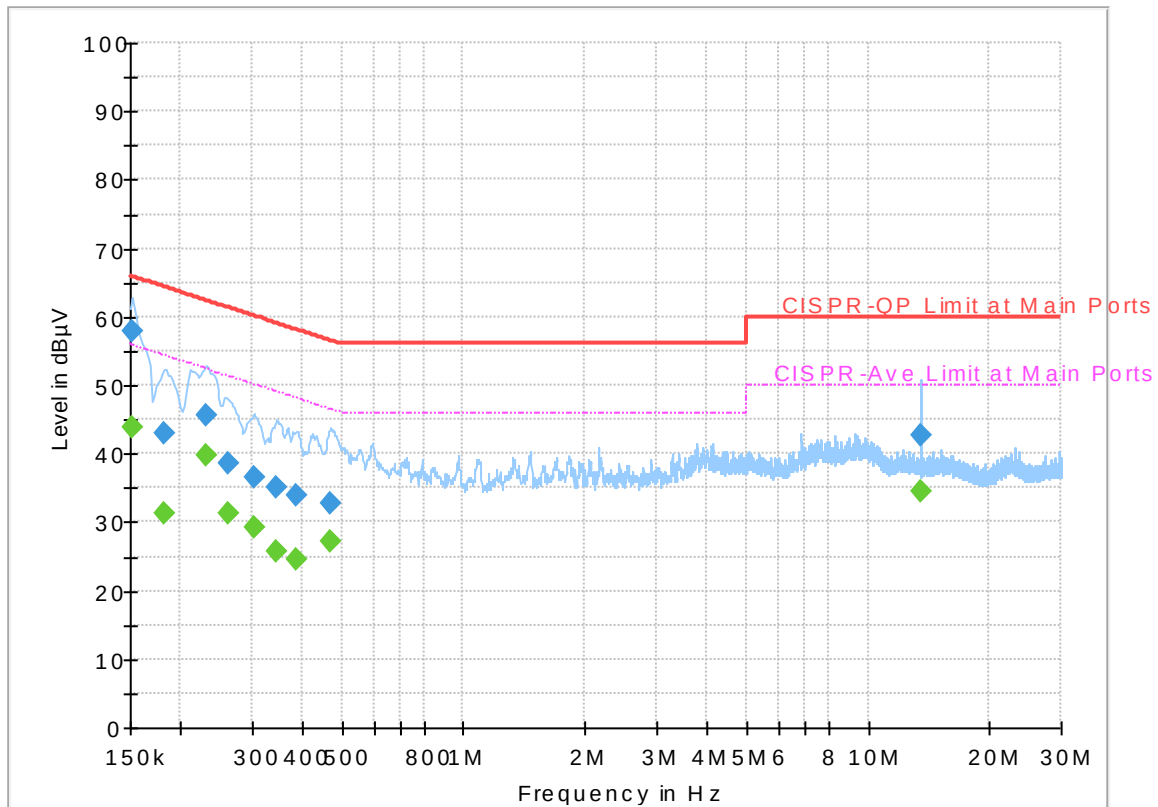
Appendix B. AC Conducted Emission Test Results

Test Engineer :	Arthur Hsieh	Temperature :	25~27℃
		Relative Humidity :	51~53%

EUT Information

Report NO : 852405
Test Mode : Mode 1
Test Voltage : 120Vac/60Hz
Phase : Line

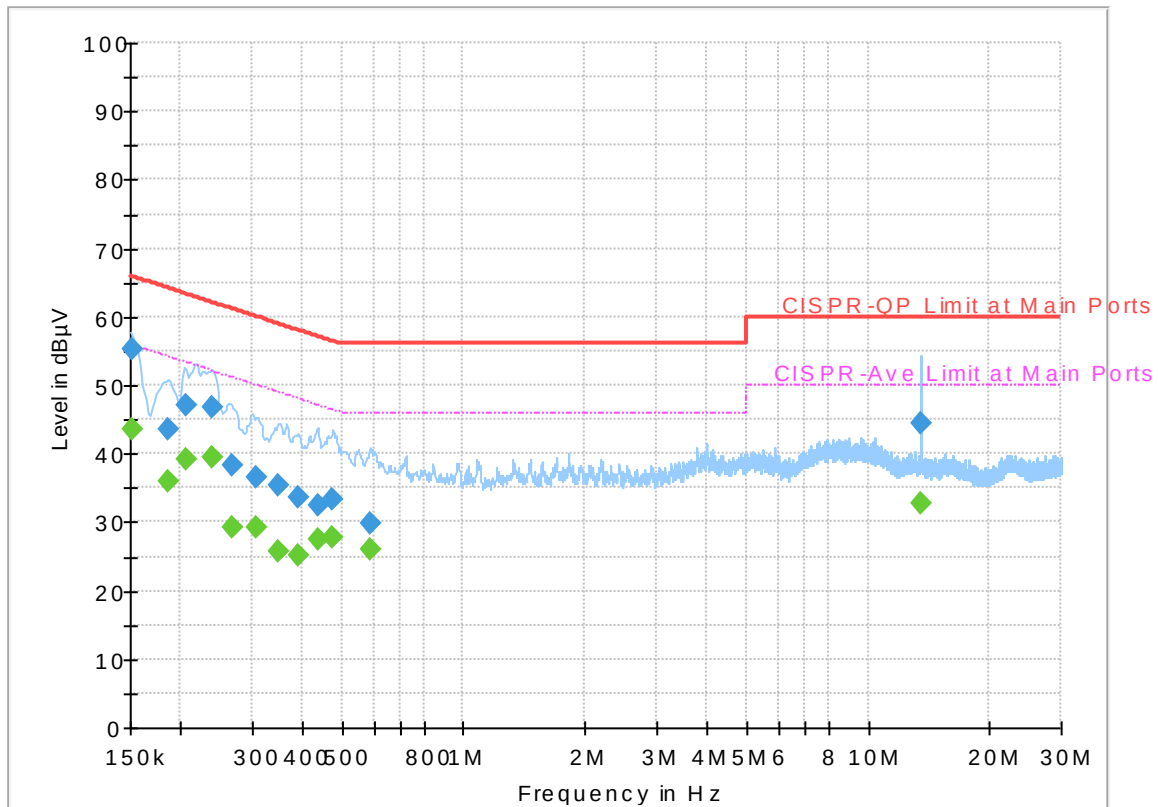
Full Spectrum



EUT Information

Report NO : 852405
 Test Mode : Mode 1
 Test Voltage : 120Vac/60Hz
 Phase : Neutral

Full Spectrum



Final_Result

Frequency (MHz)	QuasiPeak (dBμV)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Line	Filter	Corr. (dB)
0.152250	---	43.60	55.88	12.28	N	OFF	19.5
0.152250	55.15	---	65.88	10.73	N	OFF	19.5
0.186000	---	35.91	54.21	18.30	N	OFF	19.5
0.186000	43.43	---	64.21	20.78	N	OFF	19.5
0.206250	---	39.10	53.36	14.26	N	OFF	19.5
0.206250	46.99	---	63.36	16.37	N	OFF	19.5
0.240000	---	39.36	52.10	12.74	N	OFF	19.5
0.240000	46.73	---	62.10	15.37	N	OFF	19.5
0.267000	---	29.25	51.21	21.96	N	OFF	19.5
0.267000	38.39	---	61.21	22.82	N	OFF	19.5
0.307500	---	29.14	50.04	20.90	N	OFF	19.5
0.307500	36.59	---	60.04	23.45	N	OFF	19.5
0.348000	---	25.76	49.01	23.25	N	OFF	19.5
0.348000	35.24	---	59.01	23.77	N	OFF	19.5
0.388500	---	25.27	48.10	22.83	N	OFF	19.5
0.388500	33.71	---	58.10	24.39	N	OFF	19.5
0.435750	---	27.45	47.14	19.69	N	OFF	19.5
0.435750	32.42	---	57.14	24.72	N	OFF	19.5
0.476250	---	27.92	46.40	18.48	N	OFF	19.5
0.476250	33.32	---	56.40	23.08	N	OFF	19.5
0.588750	---	25.96	46.00	20.04	N	OFF	19.5

0.588750	29.95	---	56.00	26.05	N	OFF	19.5
13.560000	---	32.85	50.00	17.15	N	OFF	20.1
13.560000	44.50	---	60.00	15.50	N	OFF	20.1



Appendix C. Radiated Spurious Emission

Test Engineer :	Bill Chang, Karl Hou, and Lance Chiang	Temperature :	22~26°C
		Relative Humidity :	52~56%

Band 4 - 5725~5850MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	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 149 5745MHz		5607.2	50.11	-18.09	68.2	39.04	32.12	9.16	30.21	149	47	P	H
		5680.2	50.07	-40.52	90.59	38.81	32.21	9.3	30.25	149	47	P	H
		5716.8	51.76	-58.15	109.91	40.4	32.25	9.37	30.26	149	47	P	H
		5725	57.3	-64.9	122.2	45.91	32.27	9.38	30.26	149	47	P	H
	*	5745	101.08	-	-	89.64	32.29	9.42	30.27	149	47	P	H
	*	5745	93.24	-	-	81.8	32.29	9.42	30.27	149	47	A	H
													H
													H
		5636.8	50.73	-17.47	68.2	39.56	32.17	9.22	30.22	400	211	P	V
		5662.8	50.96	-26.74	77.7	39.73	32.19	9.27	30.23	400	211	P	V
		5718.4	50.05	-60.3	110.35	38.67	32.27	9.37	30.26	400	211	P	V
		5724.6	54.86	-66.43	121.29	43.47	32.27	9.38	30.26	400	211	P	V
	*	5745	98.34	-	-	86.9	32.29	9.42	30.27	400	211	P	V
	*	5745	90.94	-	-	79.5	32.29	9.42	30.27	400	211	A	V
													V
													V



WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 157 5785MHz		5621.6	51.16	-17.04	68.2	40.04	32.14	9.19	30.21	149	37	P	H
		5663.8	51.22	-27.22	78.44	39.99	32.19	9.27	30.23	149	37	P	H
		5704.8	52.37	-54.18	106.55	41.04	32.25	9.34	30.26	149	37	P	H
		5723.2	49.39	-68.71	118.1	38	32.27	9.38	30.26	149	37	P	H
	*	5785	101.25	-	-	89.73	32.33	9.49	30.3	149	37	P	H
	*	5785	93.9	-	-	82.38	32.33	9.49	30.3	149	37	A	H
		5852.6	51.25	-65.02	116.27	39.59	32.41	9.58	30.33	149	37	P	H
		5864.4	50.24	-57.93	108.17	38.56	32.43	9.59	30.34	149	37	P	H
		5879.6	50.71	-51.07	101.78	38.98	32.46	9.61	30.34	149	37	P	H
		5938	50.95	-17.25	68.2	39.13	32.52	9.68	30.38	149	37	P	H
													H
													H
		5605.6	49.97	-18.23	68.2	38.9	32.12	9.16	30.21	367	221	P	V
		5676.4	51.61	-36.17	87.78	40.34	32.21	9.29	30.23	367	221	P	V
		5709.2	50.57	-57.21	107.78	39.23	32.25	9.35	30.26	367	221	P	V
		5723.6	49.21	-69.8	119.01	37.82	32.27	9.38	30.26	367	221	P	V
	*	5785	99.41	-	-	87.89	32.33	9.49	30.3	367	221	P	V
	*	5785	92.07	-	-	80.55	32.33	9.49	30.3	367	221	A	V
		5851.4	49.37	-69.64	119.01	37.71	32.41	9.58	30.33	367	221	P	V
		5868.6	50.37	-56.62	106.99	38.68	32.43	9.6	30.34	367	221	P	V
		5923.6	51.6	-17.63	69.23	39.79	32.52	9.66	30.37	367	221	P	V
		5925	51.26	-16.94	68.2	39.45	32.52	9.66	30.37	367	221	P	V
													V
													V



WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 165 5825MHz	*	5825	101.55	-	-	89.93	32.39	9.55	30.32	111	33	P	H
	*	5825	94.12	-	-	82.5	32.39	9.55	30.32	111	33	A	H
		5853	52.86	-62.5	115.36	41.2	32.41	9.58	30.33	111	33	P	H
		5855.8	52.59	-57.99	110.58	40.91	32.43	9.58	30.33	111	33	P	H
		5877.6	51.05	-52.22	103.27	39.32	32.46	9.61	30.34	111	33	P	H
		5935.2	51.05	-17.15	68.2	39.23	32.52	9.68	30.38	111	33	P	H
													H
													H
	*	5825	98.43	-	-	86.81	32.39	9.55	30.32	396	200	P	V
	*	5825	90.97	-	-	79.35	32.39	9.55	30.32	396	200	A	V
		5850	50.93	-71.27	122.2	39.27	32.41	9.58	30.33	396	200	P	V
		5857	51	-59.24	110.24	39.31	32.43	9.59	30.33	396	200	P	V
		5881.4	50.89	-49.56	100.45	39.16	32.46	9.61	30.34	396	200	P	V
		5935.6	52.24	-15.96	68.2	40.42	32.52	9.68	30.38	396	200	P	V
													V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 4 5725~5850MHz

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)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 149 5745MHz		11490	46.91	-27.09	74	53.98	40.41	13.92	61.4	100	0	P	H
		17235	50.4	-17.8	68.2	48.31	41.71	17.88	57.5	100	0	P	H
													H
													H
		11490	46.92	-27.08	74	53.99	40.41	13.92	61.4	100	0	P	V
		17235	49.74	-18.46	68.2	47.65	41.71	17.88	57.5	100	0	P	V
													V
													V
802.11a CH 157 5785MHz		11570	47.72	-26.28	74	55.05	40.22	13.95	61.5	100	0	P	H
		17355	50.89	-17.31	68.2	47.6	42.32	18.06	57.09	100	0	P	H
													H
													H
		11570	46.91	-27.09	74	54.24	40.22	13.95	61.5	100	0	P	V
		17355	51.79	-16.41	68.2	48.5	42.32	18.06	57.09	100	0	P	V
													V
													V
802.11a CH 165 5825MHz		11650	47.6	-26.4	74	55.19	40.04	13.98	61.61	100	0	P	H
		17475	51.02	-17.18	68.2	46.58	42.93	18.19	56.68	100	0	P	H
													H
													H
		11650	46.32	-27.68	74	53.91	40.04	13.98	61.61	100	0	P	V
		17475	50.72	-17.48	68.2	46.28	42.93	18.19	56.68	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 4 5725~5850MHz

WIFI 802.11n HT20 (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)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 149 5745MHz		5625	51.33	-16.87	68.2	40.2	32.14	9.2	30.21	141	35	P	H
		5670.2	50.39	-32.8	83.19	39.13	32.21	9.28	30.23	141	35	P	H
		5718.4	51.13	-59.22	110.35	39.75	32.27	9.37	30.26	141	35	P	H
		5724.4	58.98	-61.85	120.83	47.59	32.27	9.38	30.26	141	35	P	H
	*	5745	101.86	-	-	90.42	32.29	9.42	30.27	141	35	P	H
	*	5745	93.95	-	-	82.51	32.29	9.42	30.27	141	35	A	H
													H
													H
		5609.2	50.23	-17.97	68.2	39.15	32.12	9.17	30.21	374	209	P	V
		5696.6	51.19	-51.5	102.69	39.88	32.23	9.33	30.25	374	209	P	V
		5720	50.55	-60.25	110.8	39.17	32.27	9.37	30.26	374	209	P	V
		5724.8	56.04	-65.7	121.74	44.65	32.27	9.38	30.26	374	209	P	V
	*	5745	99.64	-	-	88.2	32.29	9.42	30.27	374	209	P	V
	*	5745	91.89	-	-	80.45	32.29	9.42	30.27	374	209	A	V
													V
													V



WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 157 5785MHz		5633.4	50.66	-17.54	68.2	39.5	32.17	9.21	30.22	143	67	P	H
		5651.2	50.15	-18.94	69.09	38.94	32.19	9.24	30.22	143	67	P	H
		5700.8	49.77	-55.65	105.42	38.43	32.25	9.34	30.25	143	67	P	H
		5724	50.32	-69.6	119.92	38.93	32.27	9.38	30.26	143	67	P	H
	*	5785	102.43	-	-	90.91	32.33	9.49	30.3	143	67	P	H
	*	5785	94.14	-	-	82.62	32.33	9.49	30.3	143	67	A	H
		5851	50.39	-69.53	119.92	38.73	32.41	9.58	30.33	143	67	P	H
		5861.8	50.72	-58.17	108.89	39.04	32.43	9.59	30.34	143	67	P	H
		5923.8	51.39	-17.69	69.08	39.58	32.52	9.66	30.37	143	67	P	H
		5925.4	50.01	-18.19	68.2	38.2	32.52	9.66	30.37	143	67	P	H
													H
													H
		5608.6	50.68	-17.52	68.2	39.6	32.12	9.17	30.21	352	212	P	V
		5663.2	50.5	-27.5	78	39.27	32.19	9.27	30.23	352	212	P	V
		5710.8	50.03	-58.2	108.23	38.69	32.25	9.35	30.26	352	212	P	V
		5722.8	49.64	-67.54	117.18	38.25	32.27	9.38	30.26	352	212	P	V
	*	5785	98.94	-	-	87.42	32.33	9.49	30.3	352	212	P	V
	*	5785	91.34	-	-	79.82	32.33	9.49	30.3	352	212	A	V
		5853.8	49.71	-63.83	113.54	38.03	32.43	9.58	30.33	352	212	P	V
		5868.8	50.96	-55.97	106.93	39.27	32.43	9.6	30.34	352	212	P	V
		5895.4	50.64	-39.43	90.07	38.89	32.48	9.63	30.36	352	212	P	V
		5931.4	51.14	-17.06	68.2	39.32	32.52	9.67	30.37	352	212	P	V
													V
													V



WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 165 5825MHz	*	5825	101.4	-	-	89.78	32.39	9.55	30.32	151	65	P	H
	*	5825	93.32	-	-	81.7	32.39	9.55	30.32	151	65	A	H
		5852.2	52.23	-64.95	117.18	40.57	32.41	9.58	30.33	151	65	P	H
		5859	51.5	-58.18	109.68	39.82	32.43	9.59	30.34	151	65	P	H
		5877.6	50.9	-52.37	103.27	39.17	32.46	9.61	30.34	151	65	P	H
		5929.4	50.54	-17.66	68.2	38.72	32.52	9.67	30.37	151	65	P	H
													H
													H
	*	5825	99.28	-	-	87.66	32.39	9.55	30.32	381	221	P	V
	*	5825	91.67	-	-	80.05	32.39	9.55	30.32	381	221	A	V
		5850	51.15	-71.05	122.2	39.49	32.41	9.58	30.33	381	221	P	V
		5866.8	51.19	-56.3	107.49	39.5	32.43	9.6	30.34	381	221	P	V
		5887.8	51	-44.7	95.7	39.26	32.48	9.62	30.36	381	221	P	V
		5929.4	51.78	-16.42	68.2	39.96	32.52	9.67	30.37	381	221	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 4 5725~5850MHz

WIFI 802.11n HT20 (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)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 149 5745MHz		11490	46.98	-27.02	74	54.05	40.41	13.92	61.4	100	0	P	H
		17235	50.1	-18.1	68.2	48.01	41.71	17.88	57.5	100	0	P	H
													H
													H
		11490	46.3	-27.7	74	53.37	40.41	13.92	61.4	100	0	P	V
		17235	50.56	-17.64	68.2	48.47	41.71	17.88	57.5	100	0	P	V
													V
													V
802.11n HT20 CH 157 5785MHz		11570	46.5	-27.5	74	53.83	40.22	13.95	61.5	100	0	P	H
		17355	50.65	-17.55	68.2	47.36	42.32	18.06	57.09	100	0	P	H
													H
													H
		11570	46.46	-27.54	74	53.79	40.22	13.95	61.5	100	0	P	V
		17355	50.54	-17.66	68.2	47.25	42.32	18.06	57.09	100	0	P	V
													V
													V
802.11n HT20 CH 165 5825MHz		11650	46.3	-27.7	74	53.89	40.04	13.98	61.61	100	0	P	H
		17475	50.43	-17.77	68.2	45.99	42.93	18.19	56.68	100	0	P	H
													H
													H
		11650	46.1	-27.9	74	53.69	40.04	13.98	61.61	100	0	P	V
		17475	51.21	-16.99	68.2	46.77	42.93	18.19	56.68	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 4 5725~5850MHz

WIFI 802.11n HT40 (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)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 151 5755MHz		5643	51.11	-17.09	68.2	39.93	32.17	9.23	30.22	156	64	P	H
		5691.2	52.38	-46.33	98.71	41.08	32.23	9.32	30.25	156	64	P	H
		5719.2	60.17	-50.41	110.58	48.79	32.27	9.37	30.26	156	64	P	H
		5723.8	62.59	-56.87	119.46	51.2	32.27	9.38	30.26	156	64	P	H
	*	5755	99.66	-	-	88.18	32.31	9.44	30.27	156	64	P	H
	*	5755	91.97	-	-	80.49	32.31	9.44	30.27	156	64	A	H
		5854	49.7	-63.38	113.08	38.02	32.43	9.58	30.33	156	64	P	H
		5867.8	51.78	-55.43	107.21	40.09	32.43	9.6	30.34	156	64	P	H
		5919.8	52.11	-19.92	72.03	40.32	32.5	9.66	30.37	156	64	P	H
		5934	51.17	-17.03	68.2	39.35	32.52	9.67	30.37	156	64	P	H
													H
													H
		5646.2	49.96	-18.24	68.2	38.77	32.17	9.24	30.22	385	218	P	V
		5696.4	50.98	-51.57	102.55	39.67	32.23	9.33	30.25	385	218	P	V
		5718	56.3	-53.94	110.24	44.92	32.27	9.37	30.26	385	218	P	V
		5723.6	58.15	-60.86	119.01	46.76	32.27	9.38	30.26	385	218	P	V
	*	5755	96.61	-	-	85.13	32.31	9.44	30.27	385	218	P	V
	*	5755	88.87	-	-	77.39	32.31	9.44	30.27	385	218	A	V
		5851.8	50.63	-67.47	118.1	38.97	32.41	9.58	30.33	385	218	P	V
		5866.2	51.28	-56.38	107.66	39.59	32.43	9.6	30.34	385	218	P	V
		5875.2	51.44	-53.61	105.05	39.71	32.46	9.61	30.34	385	218	P	V
		5925.4	51.04	-17.16	68.2	39.23	32.52	9.66	30.37	385	218	P	V
													V
													V



WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 159 5795MHz		5631.6	50.38	-17.82	68.2	39.25	32.14	9.21	30.22	145	65	P	H
		5698	50.67	-53.06	103.73	39.36	32.23	9.33	30.25	145	65	P	H
		5704.2	50.23	-56.15	106.38	38.89	32.25	9.34	30.25	145	65	P	H
		5724.6	51.52	-69.77	121.29	40.13	32.27	9.38	30.26	145	65	P	H
	*	5795	97.96	-	-	86.4	32.35	9.51	30.3	145	65	P	H
	*	5795	90.27	-	-	78.71	32.35	9.51	30.3	145	65	A	H
		5850.2	52.3	-69.44	121.74	40.64	32.41	9.58	30.33	145	65	P	H
		5865.2	51.44	-56.5	107.94	39.76	32.43	9.59	30.34	145	65	P	H
		5912.4	50.82	-26.67	77.49	39.04	32.5	9.65	30.37	145	65	P	H
		5940.8	50.28	-17.92	68.2	38.44	32.54	9.68	30.38	145	65	P	H
													H
													H
		5622.8	50.88	-17.32	68.2	39.76	32.14	9.19	30.21	383	220	P	V
		5657	50.57	-22.83	73.4	39.35	32.19	9.26	30.23	383	220	P	V
		5709.2	49.99	-57.79	107.78	38.65	32.25	9.35	30.26	383	220	P	V
		5724.4	49.5	-71.33	120.83	38.11	32.27	9.38	30.26	383	220	P	V
	*	5795	95.48	-	-	83.92	32.35	9.51	30.3	383	220	P	V
	*	5795	87.74	-	-	76.18	32.35	9.51	30.3	383	220	A	V
		5854.4	49.94	-62.23	112.17	38.26	32.43	9.58	30.33	383	220	P	V
		5873.4	50.9	-54.75	105.65	39.18	32.46	9.6	30.34	383	220	P	V
		5880.8	50.69	-50.2	100.89	38.96	32.46	9.61	30.34	383	220	P	V
		5933	50.87	-17.33	68.2	39.05	32.52	9.67	30.37	383	220	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 4 5725~5850MHz

WIFI 802.11n HT40 (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)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 151 5755MHz		11510	48.14	-25.86	74	55.22	40.4	13.93	61.41	100	0	P	H
		17265	49.78	-18.42	68.2	47.36	41.89	17.93	57.4	100	0	P	H
													H
													H
		11510	47.06	-26.94	74	54.14	40.4	13.93	61.41	100	0	P	V
		17265	52.29	-15.91	68.2	49.87	41.89	17.93	57.4	100	0	P	V
													V
													V
802.11n HT40 CH 159 5795MHz		11590	46.39	-27.61	74	53.78	40.18	13.96	61.53	100	0	P	H
		17385	50.73	-17.47	68.2	47.15	42.49	18.08	56.99	100	0	P	H
													H
													H
		11590	46.87	-27.13	74	54.26	40.18	13.96	61.53	100	0	P	V
		17385	51.57	-16.63	68.2	47.99	42.49	18.08	56.99	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 4 5725~5850MHz

WIFI 802.11ac VHT80 (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)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 155 5775MHz		5614	50.79	-17.41	68.2	39.7	32.12	9.18	30.21	160	62	P	H
		5699.6	53.32	-51.59	104.91	42.01	32.23	9.33	30.25	160	62	P	H
		5720	55.05	-55.75	110.8	43.67	32.27	9.37	30.26	160	62	P	H
		5722.8	54.63	-62.55	117.18	43.24	32.27	9.38	30.26	160	62	P	H
	*	5775	92.69	-	-	81.18	32.33	9.47	30.29	160	62	P	H
	*	5775	85.29	-	-	73.78	32.33	9.47	30.29	160	62	A	H
		5850.6	50.94	-69.89	120.83	39.28	32.41	9.58	30.33	160	62	P	H
		5859.2	50.99	-58.63	109.62	39.31	32.43	9.59	30.34	160	62	P	H
		5914.6	51.46	-24.41	75.87	39.68	32.5	9.65	30.37	160	62	P	H
		5947.4	50.36	-17.84	68.2	38.51	32.54	9.69	30.38	160	62	P	H
													H
													H
		5600.8	50.52	-17.68	68.2	39.44	32.12	9.15	30.19	353	207	P	V
		5663.4	50.36	-27.79	78.15	39.13	32.19	9.27	30.23	353	207	P	V
		5718	52.15	-58.09	110.24	40.77	32.27	9.37	30.26	353	207	P	V
		5722	54.03	-61.33	115.36	42.64	32.27	9.38	30.26	353	207	P	V
	*	5775	90.14	-	-	78.63	32.33	9.47	30.29	353	207	P	V
	*	5775	82.89	-	-	71.38	32.33	9.47	30.29	353	207	A	V
		5852.4	50.27	-66.46	116.73	38.61	32.41	9.58	30.33	353	207	P	V
		5862.2	51.22	-57.56	108.78	39.54	32.43	9.59	30.34	353	207	P	V
		5889.2	51	-43.66	94.66	39.26	32.48	9.62	30.36	353	207	P	V
		5934.6	51.09	-17.11	68.2	39.28	32.52	9.67	30.38	353	207	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

**Band 4 5725~5850MHz****WIFI 802.11ac VHT80 (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)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 155 5775MHz		11550	47.05	-26.95	74	54.3	40.27	13.95	61.47	100	0	P	H
		17325	50.93	-17.27	68.2	47.95	42.15	18.02	57.19	100	0	P	H
													H
													H
		11550	46.47	-27.53	74	53.72	40.27	13.95	61.47	100	0	P	V
		17325	50.22	-17.98	68.2	47.24	42.15	18.02	57.19	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Emission below 1GHz
5GHz WIFI 802.11n HT40 (LF @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
5GHz 802.11n HT40 LF		96.96	39	-4.5	43.5	54.6	15.67	1.3	32.57	100	0	P	H
		160.41	31.25	-12.25	43.5	45.55	16.57	1.68	32.55	-	-	P	H
		167.97	30.34	-13.16	43.5	45.24	15.91	1.74	32.55	-	-	P	H
		734	30.44	-15.56	46	31.65	27.9	3.29	32.4	-	-	P	H
		852.3	32.71	-13.29	46	31.78	29.25	3.63	31.95	-	-	P	H
		948.9	33.52	-12.48	46	29.93	30.98	3.89	31.28	-	-	P	H
													H
													H
													H
													H
													H
													H
		76.98	29.02	-10.98	40	47.27	13.19	1.15	32.59	-	-	P	V
		95.61	34.41	-9.09	43.5	50.21	15.48	1.29	32.57	-	-	P	V
		251.4	29.13	-16.87	46	40.67	18.94	2.05	32.53	-	-	P	V
		715.8	38.15	-7.85	46	39.89	27.44	3.27	32.45	100	0	P	V
		824.3	34.17	-11.83	46	34.09	28.61	3.57	32.1	-	-	P	V
		960.1	33.92	-20.08	54	30.02	31.17	3.92	31.19	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against limit line.												



Band 4 - 5725~5850MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	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 149 5745MHz		5621.8	50.18	-18.02	68.2	39.06	32.14	9.19	30.21	193	11	P	H
		5676.8	51.32	-36.75	88.07	40.05	32.21	9.29	30.23	193	11	P	H
		5719.2	53.27	-57.31	110.58	41.89	32.27	9.37	30.26	193	11	P	H
		5724.8	59.91	-61.83	121.74	48.52	32.27	9.38	30.26	193	11	P	H
	*	5745	107.88	-	-	96.44	32.29	9.42	30.27	193	11	P	H
	*	5745	99.94	-	-	88.5	32.29	9.42	30.27	193	11	A	H
													H
													H
		5642.4	50.76	-17.44	68.2	39.58	32.17	9.23	30.22	183	10	P	V
		5695.4	51.03	-50.78	101.81	39.72	32.23	9.33	30.25	183	10	P	V
		5717.2	53.03	-56.99	110.02	41.67	32.25	9.37	30.26	183	10	P	V
		5724.6	59.96	-61.33	121.29	48.57	32.27	9.38	30.26	183	10	P	V
	*	5745	106.63	-	-	95.19	32.29	9.42	30.27	183	10	P	V
	*	5745	98.88	-	-	87.44	32.29	9.42	30.27	183	10	A	V
													V
													V



WIFI Ant. 2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 157 5785MHz		5619.2	51.03	-17.17	68.2	39.91	32.14	9.19	30.21	300	350	P	H
		5667.8	50.75	-30.66	81.41	39.49	32.21	9.28	30.23	300	350	P	H
		5706	50.81	-56.07	106.88	39.47	32.25	9.35	30.26	300	350	P	H
		5722.8	50.29	-66.89	117.18	38.9	32.27	9.38	30.26	300	350	P	H
	*	5785	107.5	-	-	95.98	32.33	9.49	30.3	300	350	P	H
	*	5785	100.27	-	-	88.75	32.33	9.49	30.3	300	350	A	H
		5850.6	51.67	-69.16	120.83	40.01	32.41	9.58	30.33	300	350	P	H
		5861.6	50.62	-58.33	108.95	38.94	32.43	9.59	30.34	300	350	P	H
		5894.2	51.46	-39.49	90.95	39.71	32.48	9.63	30.36	300	350	P	H
		5942.6	51.78	-16.42	68.2	39.94	32.54	9.68	30.38	300	350	P	H
													H
													H
		5639.6	49.69	-18.51	68.2	38.52	32.17	9.22	30.22	211	17	P	V
		5663.8	50.5	-27.94	78.44	39.27	32.19	9.27	30.23	211	17	P	V
		5708.8	50.1	-57.57	107.67	38.76	32.25	9.35	30.26	211	17	P	V
		5720.4	50.11	-61.6	111.71	38.73	32.27	9.37	30.26	211	17	P	V
	*	5785	106.85	-	-	95.33	32.33	9.49	30.3	211	17	P	V
	*	5785	99.48	-	-	87.96	32.33	9.49	30.3	211	17	A	V
		5850.8	50.5	-69.88	120.38	38.84	32.41	9.58	30.33	211	17	P	V
		5866.2	51.71	-55.95	107.66	40.02	32.43	9.6	30.34	211	17	P	V
		5901.4	51.86	-33.76	85.62	40.1	32.48	9.64	30.36	211	17	P	V
		5930.6	50.67	-17.53	68.2	38.85	32.52	9.67	30.37	211	17	P	V
													V
													V



WIFI Ant. 2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 165 5825MHz	*	5825	106.88	-	-	95.26	32.39	9.55	30.32	295	350	P	H
	*	5825	99.44	-	-	87.82	32.39	9.55	30.32	295	350	A	H
		5850.4	54.65	-66.64	121.29	42.99	32.41	9.58	30.33	295	350	P	H
		5856.2	53.33	-57.13	110.46	41.65	32.43	9.58	30.33	295	350	P	H
		5878.6	51.87	-50.66	102.53	40.14	32.46	9.61	30.34	295	350	P	H
		5940.8	52.27	-15.93	68.2	40.43	32.54	9.68	30.38	295	350	P	H
													H
													H
	*	5825	106.72	-	-	95.1	32.39	9.55	30.32	212	16	P	V
	*	5825	99.29	-	-	87.67	32.39	9.55	30.32	212	16	A	V
		5851.2	54.44	-65.02	119.46	42.78	32.41	9.58	30.33	212	16	P	V
		5864.2	53.79	-54.43	108.22	42.11	32.43	9.59	30.34	212	16	P	V
		5876.8	51.66	-52.2	103.86	39.93	32.46	9.61	30.34	212	16	P	V
		5928.8	51.09	-17.11	68.2	39.27	32.52	9.67	30.37	212	16	P	V
													V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 4 5725~5850MHz

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)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 149 5745MHz		11490	47.26	-26.74	74	54.33	40.41	13.92	61.4	100	0	P	H
		17235	50.29	-17.91	68.2	48.2	41.71	17.88	57.5	100	0	P	H
													H
													H
		11490	47.67	-26.33	74	54.74	40.41	13.92	61.4	100	0	P	V
		17235	49.54	-18.66	68.2	47.45	41.71	17.88	57.5	100	0	P	V
													V
													V
802.11a CH 157 5785MHz		11570	46.74	-27.26	74	54.07	40.22	13.95	61.5	100	0	P	H
		17355	51.34	-16.86	68.2	48.05	42.32	18.06	57.09	100	0	P	H
													H
													H
		11570	48.65	-25.35	74	55.98	40.22	13.95	61.5	100	0	P	V
		17355	51.51	-16.69	68.2	48.22	42.32	18.06	57.09	100	0	P	V
													V
													V
802.11a CH 165 5825MHz		11650	46.75	-27.25	74	54.34	40.04	13.98	61.61	100	0	P	H
		17475	51.14	-17.06	68.2	46.7	42.93	18.19	56.68	100	0	P	H
													H
													H
		11650	47.48	-26.52	74	55.07	40.04	13.98	61.61	100	0	P	V
		17475	52	-16.2	68.2	47.56	42.93	18.19	56.68	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

**Band 4 5725~5850MHz****WIFI 802.11n HT20 (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)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 149 5745MHz		5632	50.28	-17.92	68.2	39.15	32.14	9.21	30.22	288	353	P	H
		5694.8	51.44	-49.93	101.37	40.13	32.23	9.33	30.25	288	353	P	H
		5720	56.58	-54.22	110.8	45.2	32.27	9.37	30.26	288	353	P	H
		5725	59.17	-63.03	122.2	47.78	32.27	9.38	30.26	288	353	P	H
	*	5745	106.7	-	-	95.26	32.29	9.42	30.27	288	353	P	H
	*	5745	98.81	-	-	87.37	32.29	9.42	30.27	288	353	A	H
													H
													H
		5646.6	50.08	-18.12	68.2	38.89	32.17	9.24	30.22	196	9	P	V
		5696.6	51.49	-51.2	102.69	40.18	32.23	9.33	30.25	196	9	P	V
		5717.8	53.35	-56.83	110.18	41.97	32.27	9.37	30.26	196	9	P	V
		5723.8	58.25	-61.21	119.46	46.86	32.27	9.38	30.26	196	9	P	V
	*	5745	105.31	-	-	93.87	32.29	9.42	30.27	196	9	P	V
	*	5745	97.79	-	-	86.35	32.29	9.42	30.27	196	9	A	V
													V
													V



WIFI Ant. 2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 157 5785MHz		5631	50.67	-17.53	68.2	39.54	32.14	9.21	30.22	288	352	P	H
		5691.2	51.07	-47.64	98.71	39.77	32.23	9.32	30.25	288	352	P	H
		5715.6	50.43	-59.14	109.57	39.08	32.25	9.36	30.26	288	352	P	H
		5723.2	50.86	-67.24	118.1	39.47	32.27	9.38	30.26	288	352	P	H
	*	5785	107.01	-	-	95.49	32.33	9.49	30.3	288	352	P	H
	*	5785	99.28	-	-	87.76	32.33	9.49	30.3	288	352	A	H
		5850.8	50.73	-69.65	120.38	39.07	32.41	9.58	30.33	288	352	P	H
		5868.2	51.02	-56.08	107.1	39.33	32.43	9.6	30.34	288	352	P	H
		5895.8	51.88	-37.89	89.77	40.13	32.48	9.63	30.36	288	352	P	H
		5934.2	51.6	-16.6	68.2	39.78	32.52	9.67	30.37	288	352	P	H
													H
													H
		5616	50.34	-17.86	68.2	39.23	32.14	9.18	30.21	185	9	P	V
		5680.2	50.58	-40.01	90.59	39.32	32.21	9.3	30.25	185	9	P	V
		5714	51	-58.12	109.12	39.65	32.25	9.36	30.26	185	9	P	V
		5724.6	49.74	-71.55	121.29	38.35	32.27	9.38	30.26	185	9	P	V
	*	5785	107.1	-	-	95.58	32.33	9.49	30.3	185	9	P	V
	*	5785	98.88	-	-	87.36	32.33	9.49	30.3	185	9	A	V
		5851.4	51.55	-67.46	119.01	39.89	32.41	9.58	30.33	185	9	P	V
		5864.8	50.62	-57.43	108.05	38.94	32.43	9.59	30.34	185	9	P	V
		5889.6	51.53	-42.83	94.36	39.79	32.48	9.62	30.36	185	9	P	V
		5931.2	51	-17.2	68.2	39.18	32.52	9.67	30.37	185	9	P	V
													V
													V



WIFI Ant. 2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 165 5825MHz	*	5825	107.22	-	-	95.6	32.39	9.55	30.32	288	354	P	H
	*	5825	99.37	-	-	87.75	32.39	9.55	30.32	288	354	A	H
		5854.2	55.42	-57.2	112.62	43.74	32.43	9.58	30.33	288	354	P	H
		5857.6	54.11	-55.96	110.07	42.42	32.43	9.59	30.33	288	354	P	H
		5903	51.48	-32.96	84.44	39.72	32.48	9.64	30.36	288	354	P	H
		5941.6	50.98	-17.22	68.2	39.14	32.54	9.68	30.38	288	354	P	H
													H
													H
	*	5825	107.12	-	-	95.5	32.39	9.55	30.32	215	15	P	V
	*	5825	99.47	-	-	87.85	32.39	9.55	30.32	215	15	A	V
		5850.2	55.77	-65.97	121.74	44.11	32.41	9.58	30.33	215	15	P	V
		5857.2	54.25	-55.93	110.18	42.56	32.43	9.59	30.33	215	15	P	V
		5911.2	52.11	-26.27	78.38	40.33	32.5	9.65	30.37	215	15	P	V
		5934.2	52.31	-15.89	68.2	40.49	32.52	9.67	30.37	215	15	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 4 5725~5850MHz
WIFI 802.11n HT20 (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)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 149 5745MHz		11490	46.33	-27.67	74	53.4	40.41	13.92	61.4	100	0	P	H
		17235	49.83	-18.37	68.2	47.74	41.71	17.88	57.5	100	0	P	H
													H
													H
		11490	48.19	-25.81	74	55.26	40.41	13.92	61.4	100	0	P	V
		17235	49.8	-18.4	68.2	47.71	41.71	17.88	57.5	100	0	P	V
													V
													V
802.11n HT20 CH 157 5785MHz		11570	46.21	-27.79	74	53.54	40.22	13.95	61.5	100	0	P	H
		17355	51.21	-16.99	68.2	47.92	42.32	18.06	57.09	100	0	P	H
													H
													H
		11570	48.02	-25.98	74	55.35	40.22	13.95	61.5	100	0	P	V
		17355	51.2	-17	68.2	47.91	42.32	18.06	57.09	100	0	P	V
													V
													V
802.11n HT20 CH 165 5825MHz		11650	46.55	-27.45	74	54.14	40.04	13.98	61.61	100	0	P	H
		17475	50.96	-17.24	68.2	46.52	42.93	18.19	56.68	100	0	P	H
													H
													H
		11650	49.53	-24.47	74	57.12	40.04	13.98	61.61	100	0	P	V
		17475	50.63	-17.57	68.2	46.19	42.93	18.19	56.68	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 4 5725~5850MHz

WIFI 802.11n HT40 (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)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 151 5755MHz		5641.2	50.83	-17.37	68.2	39.65	32.17	9.23	30.22	293	351	P	H
		5699.6	53.62	-51.29	104.91	42.31	32.23	9.33	30.25	293	351	P	H
		5718.8	62.05	-48.41	110.46	50.67	32.27	9.37	30.26	293	351	P	H
		5724.8	63.82	-57.92	121.74	52.43	32.27	9.38	30.26	293	351	P	H
	*	5755	104.23	-	-	92.75	32.31	9.44	30.27	293	351	P	H
	*	5755	96.33	-	-	84.85	32.31	9.44	30.27	293	351	A	H
		5854.2	50.75	-61.87	112.62	39.07	32.43	9.58	30.33	293	351	P	H
		5857.8	52.01	-58	110.01	40.33	32.43	9.59	30.34	293	351	P	H
		5909.2	50.9	-28.96	79.86	39.12	32.5	9.65	30.37	293	351	P	H
		5936.4	50.68	-17.52	68.2	38.86	32.52	9.68	30.38	293	351	P	H
													H
													H
		5623.2	50.95	-17.25	68.2	39.83	32.14	9.19	30.21	173	9	P	V
		5699	54.72	-49.74	104.46	43.41	32.23	9.33	30.25	173	9	P	V
		5718.6	62.45	-47.96	110.41	51.07	32.27	9.37	30.26	173	9	P	V
		5724.8	64.46	-57.28	121.74	53.07	32.27	9.38	30.26	173	9	P	V
	*	5755	104.1	-	-	92.62	32.31	9.44	30.27	173	9	P	V
	*	5755	96.26	-	-	84.78	32.31	9.44	30.27	173	9	A	V
		5851.8	50.39	-67.71	118.1	38.73	32.41	9.58	30.33	173	9	P	V
		5857.2	52	-58.18	110.18	40.31	32.43	9.59	30.33	173	9	P	V
		5897.2	51.32	-37.41	88.73	39.57	32.48	9.63	30.36	173	9	P	V
		5935	51.32	-16.88	68.2	39.5	32.52	9.68	30.38	173	9	P	V
													V
													V



WIFI Ant. 2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 159 5795MHz		5615.4	50.29	-17.91	68.2	39.2	32.12	9.18	30.21	288	354	P	H
		5652.4	50.96	-19.02	69.98	39.74	32.19	9.25	30.22	288	354	P	H
		5720	51.12	-59.68	110.8	39.74	32.27	9.37	30.26	288	354	P	H
		5722.2	51.45	-64.37	115.82	40.06	32.27	9.38	30.26	288	354	P	H
	*	5795	104.41	-	-	92.85	32.35	9.51	30.3	288	354	P	H
	*	5795	96.59	-	-	85.03	32.35	9.51	30.3	288	354	A	H
		5851.4	55.74	-63.27	119.01	44.08	32.41	9.58	30.33	288	354	P	H
		5857.8	56.01	-54	110.01	44.33	32.43	9.59	30.34	288	354	P	H
		5921.2	52.36	-18.64	71	40.57	32.5	9.66	30.37	288	354	P	H
		5935.6	51.06	-17.14	68.2	39.24	32.52	9.68	30.38	288	354	P	H
													H
													H
		5600.8	49.98	-18.22	68.2	38.9	32.12	9.15	30.19	218	16	P	V
		5679.4	50.74	-39.26	90	39.48	32.21	9.3	30.25	218	16	P	V
		5718	50.89	-59.35	110.24	39.51	32.27	9.37	30.26	218	16	P	V
		5723.4	50.14	-68.41	118.55	38.75	32.27	9.38	30.26	218	16	P	V
	*	5795	104.51	-	-	92.95	32.35	9.51	30.3	218	16	P	V
	*	5795	96.49	-	-	84.93	32.35	9.51	30.3	218	16	A	V
		5851.6	57.57	-60.98	118.55	45.91	32.41	9.58	30.33	218	16	P	V
		5855.4	54.66	-56.03	110.69	42.98	32.43	9.58	30.33	218	16	P	V
		5875.6	52.29	-52.46	104.75	40.56	32.46	9.61	30.34	218	16	P	V
		5946	51.26	-16.94	68.2	39.41	32.54	9.69	30.38	218	16	P	V
													V
													V
Remark	1. No other spurious found.												
	2. All results are PASS against Peak and Average limit line.												



Band 4 5725~5850MHz
WIFI 802.11n HT40 (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)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 151 5755MHz		11510	46.97	-27.03	74	54.05	40.4	13.93	61.41	100	0	P	H
		17265	50.48	-17.72	68.2	48.06	41.89	17.93	57.4	100	0	P	H
													H
													H
		11510	46.94	-27.06	74	54.02	40.4	13.93	61.41	100	0	P	V
		17265	49.86	-18.34	68.2	47.44	41.89	17.93	57.4	100	0	P	V
													V
													V
802.11n HT40 CH 159 5795MHz		11590	47.49	-26.51	74	54.88	40.18	13.96	61.53	100	0	P	H
		17385	50.82	-17.38	68.2	47.24	42.49	18.08	56.99	100	0	P	H
													H
													H
		11590	46.42	-27.58	74	53.81	40.18	13.96	61.53	100	0	P	V
		17385	50.8	-17.4	68.2	47.22	42.49	18.08	56.99	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 4 5725~5850MHz

WIFI 802.11ac VHT80 (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)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 155 5775MHz		5610.4	49.71	-18.49	68.2	38.63	32.12	9.17	30.21	291	355	P	H
		5696.4	51.52	-51.03	102.55	40.21	32.23	9.33	30.25	291	355	P	H
		5714.4	53.24	-55.99	109.23	41.89	32.25	9.36	30.26	291	355	P	H
		5724	53.33	-66.59	119.92	41.94	32.27	9.38	30.26	291	355	P	H
	*	5775	97.75	-	-	86.24	32.33	9.47	30.29	291	355	P	H
	*	5775	90.24	-	-	78.73	32.33	9.47	30.29	291	355	A	H
		5850.4	52.88	-68.41	121.29	41.22	32.41	9.58	30.33	291	355	P	H
		5858.8	52.07	-57.66	109.73	40.39	32.43	9.59	30.34	291	355	P	H
		5877	51.81	-51.9	103.71	40.08	32.46	9.61	30.34	291	355	P	H
		5937.6	51.57	-16.63	68.2	39.75	32.52	9.68	30.38	291	355	P	H
													H
													H
		5628.4	50.64	-17.56	68.2	39.52	32.14	9.2	30.22	205	15	P	V
		5694.8	52.94	-48.43	101.37	41.63	32.23	9.33	30.25	205	15	P	V
		5717.4	54.03	-56.04	110.07	42.67	32.25	9.37	30.26	205	15	P	V
		5724	53.03	-66.89	119.92	41.64	32.27	9.38	30.26	205	15	P	V
	*	5775	98.02	-	-	86.51	32.33	9.47	30.29	205	15	P	V
	*	5775	90.39	-	-	78.88	32.33	9.47	30.29	205	15	A	V
		5854.8	52.53	-58.73	111.26	40.85	32.43	9.58	30.33	205	15	P	V
		5855.2	52.89	-57.85	110.74	41.21	32.43	9.58	30.33	205	15	P	V
		5908	52.44	-28.3	80.74	40.66	32.5	9.64	30.36	205	15	P	V
		5937.6	50.91	-17.29	68.2	39.09	32.52	9.68	30.38	205	15	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

**Band 4 5725~5850MHz****WIFI 802.11ac VHT80 (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)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 155 5775MHz		11550	46.88	-27.12	74	54.13	40.27	13.95	61.47	100	0	P	H
		17325	50.71	-17.49	68.2	47.73	42.15	18.02	57.19	100	0	P	H
													H
													H
		11550	47.03	-26.97	74	54.28	40.27	13.95	61.47	100	0	P	V
		17325	50.52	-17.68	68.2	47.54	42.15	18.02	57.19	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Emission below 1GHz

5GHz WIFI 802.11n HT20 (LF @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	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)
5GHz 802.11n HT20 LF		100.2	39.23	-4.27	43.5	54.39	16.1	1.31	32.57	100	0	P	H
		169.05	30.29	-13.21	43.5	45.25	15.83	1.76	32.55	-	-	P	H
		253.29	28.02	-17.98	46	39.51	18.98	2.06	32.53	-	-	P	H
		720.7	35.22	-10.78	46	36.76	27.62	3.27	32.43	-	-	P	H
		910.4	31.88	-14.12	46	30.1	29.66	3.74	31.62	-	-	P	H
		945.4	33.14	-12.86	46	29.67	30.92	3.87	31.32	-	-	P	H
													H
													H
													H
													H
													H
													H
		100.2	39.05	-4.45	43.5	54.21	16.1	1.31	32.57	100	0	P	V
		171.48	27.22	-16.28	43.5	42.35	15.65	1.77	32.55	-	-	P	V
		253.83	27.29	-18.71	46	38.76	19	2.06	32.53	-	-	P	V
		713.7	32.87	-13.13	46	34.69	27.36	3.27	32.45	-	-	P	V
		845.3	32.26	-13.74	46	31.36	29.27	3.62	31.99	-	-	P	V
		930	33.79	-12.21	46	31.07	30.35	3.81	31.44	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against limit line.												



Band 4 - 5725~5850MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 149 5745MHz		5614	51.07	-17.13	68.2	39.98	32.12	9.18	30.21	194	9	P	H
		5683.8	50.8	-42.45	93.25	39.51	32.23	9.31	30.25	194	9	P	H
		5709.6	51.42	-56.47	107.89	40.08	32.25	9.35	30.26	194	9	P	H
		5725	53.9	-68.3	122.2	42.51	32.27	9.38	30.26	194	9	P	H
	*	5745	106.29	-	-	94.85	32.29	9.42	30.27	194	9	P	H
	*	5745	99.09	-	-	87.65	32.29	9.42	30.27	194	9	A	H
													H
													H
		5642	50.6	-17.6	68.2	39.42	32.17	9.23	30.22	198	19	P	V
		5694.2	50.77	-50.15	100.92	39.47	32.23	9.32	30.25	198	19	P	V
		5714.4	50.99	-58.24	109.23	39.64	32.25	9.36	30.26	198	19	P	V
		5725	54.29	-67.91	122.2	42.9	32.27	9.38	30.26	198	19	P	V
	*	5745	103.96	-	-	92.52	32.29	9.42	30.27	198	19	P	V
	*	5745	96.92	-	-	85.48	32.29	9.42	30.27	198	19	A	V
													V
													V



WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 157 5785MHz		5632.6	50.35	-17.85	68.2	39.19	32.17	9.21	30.22	183	9	P	H
		5651.4	50.28	-18.96	69.24	39.06	32.19	9.25	30.22	183	9	P	H
		5715.2	51.44	-58.02	109.46	40.09	32.25	9.36	30.26	183	9	P	H
		5722.6	50.33	-66.4	116.73	38.94	32.27	9.38	30.26	183	9	P	H
	*	5785	106.73	-	-	95.21	32.33	9.49	30.3	183	9	P	H
	*	5785	99.48	-	-	87.96	32.33	9.49	30.3	183	9	A	H
		5850.2	50.2	-71.54	121.74	38.54	32.41	9.58	30.33	183	9	P	H
		5874	50.59	-54.89	105.48	38.86	32.46	9.61	30.34	183	9	P	H
		5917	51.38	-22.72	74.1	39.6	32.5	9.65	30.37	183	9	P	H
		5940.6	51.21	-16.99	68.2	39.37	32.54	9.68	30.38	183	9	P	H
													H
													H
		5646	50.34	-17.86	68.2	39.15	32.17	9.24	30.22	183	9	P	V
		5668.6	51	-31	82	39.74	32.21	9.28	30.23	183	9	P	V
		5715	50.08	-59.32	109.4	38.73	32.25	9.36	30.26	183	9	P	V
		5720.8	49.35	-63.27	112.62	37.97	32.27	9.37	30.26	183	9	P	V
	*	5785	104.77	-	-	93.25	32.33	9.49	30.3	183	9	P	V
	*	5785	96.99	-	-	85.47	32.33	9.49	30.3	183	9	A	V
		5853	50.04	-65.32	115.36	38.38	32.41	9.58	30.33	183	9	P	V
		5866.4	50.8	-56.81	107.61	39.11	32.43	9.6	30.34	183	9	P	V
		5925	51.16	-17.04	68.2	39.35	32.52	9.66	30.37	183	9	P	V
		5925	51.16	-17.04	68.2	39.35	32.52	9.66	30.37	183	9	P	V
													V
													V



WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 165 5825MHz	*	5825	106.54	-	-	94.92	32.39	9.55	30.32	188	8	P	H
	*	5825	99.15	-	-	87.53	32.39	9.55	30.32	188	8	A	H
		5854.8	52.31	-58.95	111.26	40.63	32.43	9.58	30.33	188	8	P	H
		5861.8	52.55	-56.34	108.89	40.87	32.43	9.59	30.34	188	8	P	H
		5923	52.25	-17.42	69.67	40.44	32.52	9.66	30.37	188	8	P	H
		5941.6	51.29	-16.91	68.2	39.45	32.54	9.68	30.38	188	8	P	H
													H
													H
	*	5825	104.79	-	-	93.17	32.39	9.55	30.32	192	20	P	V
	*	5825	97.32	-	-	85.7	32.39	9.55	30.32	192	20	A	V
		5850.6	51.91	-68.92	120.83	40.25	32.41	9.58	30.33	192	20	P	V
		5858.2	52.52	-57.38	109.9	40.84	32.43	9.59	30.34	192	20	P	V
		5875.8	50.77	-53.84	104.61	39.04	32.46	9.61	30.34	192	20	P	V
		5926	51.15	-17.05	68.2	39.34	32.52	9.66	30.37	192	20	P	V
													V
													V
													V
Remark 1. No other spurious found. 2. All results are PASS against Peak and Average limit line.													



Band 4 5725~5850MHz

WIFI 802.11a (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)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 149 5745MHz		11490	46.23	-27.77	74	53.3	40.41	13.92	61.4	100	0	P	H
		17235	50.2	-18	68.2	48.11	41.71	17.88	57.5	100	0	P	H
													H
													H
		11490	46.6	-27.4	74	53.67	40.41	13.92	61.4	100	0	P	V
		17235	49.99	-18.21	68.2	47.9	41.71	17.88	57.5	100	0	P	V
													V
													V
802.11a CH 157 5785MHz		11570	46.27	-27.73	74	53.6	40.22	13.95	61.5	100	0	P	H
		17355	50.52	-17.68	68.2	47.23	42.32	18.06	57.09	100	0	P	H
													H
													H
		11570	46.89	-27.11	74	54.22	40.22	13.95	61.5	100	0	P	V
		17355	50.91	-17.29	68.2	47.64	42.32	18.05	57.1	100	0	P	V
													V
													V
802.11a CH 165 5825MHz		11650	46.71	-27.29	74	54.3	40.04	13.98	61.61	100	0	P	H
		17475	51.39	-16.81	68.2	46.95	42.93	18.19	56.68	100	0	P	H
													H
													H
		11650	46.03	-27.97	74	53.62	40.04	13.98	61.61	100	0	P	V
		17475	51.17	-17.03	68.2	46.73	42.93	18.19	56.68	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 4 5725~5850MHz

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)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 149 5745MHz		5623.4	50.28	-17.92	68.2	39.16	32.14	9.19	30.21	194	8	P	H
		5679.4	50.96	-39.04	90	39.7	32.21	9.3	30.25	194	8	P	H
		5719	52.62	-57.9	110.52	41.24	32.27	9.37	30.26	194	8	P	H
		5723.4	52.79	-65.76	118.55	41.4	32.27	9.38	30.26	194	8	P	H
	*	5745	105.55	-	-	94.11	32.29	9.42	30.27	194	8	P	H
	*	5745	97.87	-	-	86.43	32.29	9.42	30.27	194	8	A	H
													H
													H
		5625.6	49.87	-18.33	68.2	38.74	32.14	9.2	30.21	212	4	P	V
		5680.4	50.93	-39.8	90.73	39.67	32.21	9.3	30.25	212	4	P	V
		5719.6	51.77	-58.92	110.69	40.39	32.27	9.37	30.26	212	4	P	V
		5723.6	53.71	-65.3	119.01	42.32	32.27	9.38	30.26	212	4	P	V
	*	5745	103.4	-	-	91.96	32.29	9.42	30.27	212	4	P	V
	*	5745	95.42	-	-	83.98	32.29	9.42	30.27	212	4	A	V
													V
													V



WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 157 5785MHz		5601.4	49.84	-18.36	68.2	38.76	32.12	9.15	30.19	186	9	P	H
		5665.8	51.1	-28.83	79.93	39.87	32.19	9.27	30.23	186	9	P	H
		5716.2	50.66	-59.08	109.74	39.31	32.25	9.36	30.26	186	9	P	H
		5723.4	50.46	-68.09	118.55	39.07	32.27	9.38	30.26	186	9	P	H
	*	5785	107.07	-	-	95.55	32.33	9.49	30.3	186	9	P	H
	*	5785	98.81	-	-	87.29	32.33	9.49	30.3	186	9	A	H
		5853.2	51.44	-63.46	114.9	39.78	32.41	9.58	30.33	186	9	P	H
		5869.2	51.25	-55.57	106.82	39.56	32.43	9.6	30.34	186	9	P	H
		5886.8	51.38	-45.06	96.44	39.66	32.46	9.62	30.36	186	9	P	H
		5944.6	51.43	-16.77	68.2	39.58	32.54	9.69	30.38	186	9	P	H
													H
													H
		5623.2	50.5	-17.7	68.2	39.38	32.14	9.19	30.21	196	20	P	V
		5680	49.69	-40.75	90.44	38.43	32.21	9.3	30.25	196	20	P	V
		5702	50.51	-55.25	105.76	39.17	32.25	9.34	30.25	196	20	P	V
		5722.8	50.5	-66.68	117.18	39.11	32.27	9.38	30.26	196	20	P	V
	*	5785	105.63	-	-	94.11	32.33	9.49	30.3	196	20	P	V
	*	5785	97.43	-	-	85.91	32.33	9.49	30.3	196	20	A	V
		5850.4	50.29	-71	121.29	38.63	32.41	9.58	30.33	196	20	P	V
		5871.2	51.7	-54.56	106.26	39.98	32.46	9.6	30.34	196	20	P	V
		5909.4	51.17	-28.54	79.71	39.39	32.5	9.65	30.37	196	20	P	V
		5949	51.4	-16.8	68.2	39.55	32.54	9.69	30.38	196	20	P	V
													V
													V



WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 165 5825MHz	*	5825	105.14	-	-	93.52	32.39	9.55	30.32	200	37	P	H
	*	5825	97.65	-	-	86.03	32.39	9.55	30.32	200	37	A	H
		5853.4	51.7	-62.75	114.45	40.04	32.41	9.58	30.33	200	37	P	H
		5865	51.52	-56.48	108	39.84	32.43	9.59	30.34	200	37	P	H
		5885	52.25	-45.52	97.77	40.53	32.46	9.62	30.36	200	37	P	H
		5937	50.89	-17.31	68.2	39.07	32.52	9.68	30.38	200	37	P	H
													H
													H
	*	5825	103.58	-	-	91.96	32.39	9.55	30.32	201	21	P	V
	*	5825	95.46	-	-	83.84	32.39	9.55	30.32	201	21	A	V
		5851.6	51.87	-66.68	118.55	40.21	32.41	9.58	30.33	201	21	P	V
		5871.4	51.99	-54.22	106.21	40.27	32.46	9.6	30.34	201	21	P	V
		5885.6	51.36	-45.97	97.33	39.64	32.46	9.62	30.36	201	21	P	V
		5946.6	50.41	-17.79	68.2	38.56	32.54	9.69	30.38	201	21	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 4 5725~5850MHz
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)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 149 5745MHz		11490	46.61	-27.39	74	53.68	40.41	13.92	61.4	100	0	P	H
		17235	51.04	-17.16	68.2	48.95	41.71	17.88	57.5	100	0	P	H
													H
													H
		11490	46.19	-27.81	74	53.26	40.41	13.92	61.4	100	0	P	V
		17235	50.06	-18.14	68.2	47.97	41.71	17.88	57.5	100	0	P	V
													V
													V
802.11n HT20 CH 157 5785MHz		11570	46.54	-27.46	74	53.87	40.22	13.95	61.5	100	0	P	H
		17355	51.29	-16.91	68.2	48	42.32	18.06	57.09	100	0	P	H
													H
													H
		11570	47	-27	74	54.33	40.22	13.95	61.5	100	0	P	V
		17355	50.74	-17.46	68.2	47.45	42.32	18.06	57.09	100	0	P	V
													V
													V
802.11n HT20 CH 165 5825MHz		11650	46.4	-27.6	74	53.99	40.04	13.98	61.61	100	0	P	H
		17475	52.3	-15.9	68.2	47.86	42.93	18.19	56.68	100	0	P	H
													H
													H
		11650	46.94	-27.06	74	54.53	40.04	13.98	61.61	100	0	P	V
		17475	51.2	-17	68.2	46.76	42.93	18.19	56.68	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 4 5725~5850MHz

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)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 151 5755MHz		5632.4	50.37	-17.83	68.2	39.24	32.14	9.21	30.22	193	9	P	H
		5697	51.84	-51.15	102.99	40.53	32.23	9.33	30.25	193	9	P	H
		5719	56.25	-54.27	110.52	44.87	32.27	9.37	30.26	193	9	P	H
		5723	57.12	-60.52	117.64	45.73	32.27	9.38	30.26	193	9	P	H
	*	5755	103.56	-	-	92.08	32.31	9.44	30.27	193	9	P	H
	*	5755	95.95	-	-	84.47	32.31	9.44	30.27	193	9	A	H
		5854	50.72	-62.36	113.08	39.04	32.43	9.58	30.33	193	9	P	H
		5858.4	50.56	-59.29	109.85	38.88	32.43	9.59	30.34	193	9	P	H
		5914	52.46	-23.85	76.31	40.68	32.5	9.65	30.37	193	9	P	H
		5926	51.57	-16.63	68.2	39.76	32.52	9.66	30.37	193	9	P	H
													H
													H
		5614.8	50.9	-17.3	68.2	39.81	32.12	9.18	30.21	188	9	P	V
		5684.4	51.34	-42.35	93.69	40.05	32.23	9.31	30.25	188	9	P	V
		5718.4	53.08	-57.27	110.35	41.7	32.27	9.37	30.26	188	9	P	V
		5723.2	54.67	-63.43	118.1	43.28	32.27	9.38	30.26	188	9	P	V
	*	5755	101.15	-	-	89.67	32.31	9.44	30.27	188	9	P	V
	*	5755	93.38	-	-	81.9	32.31	9.44	30.27	188	9	A	V
		5854	51.12	-61.96	113.08	39.44	32.43	9.58	30.33	188	9	P	V
		5870	51.95	-54.65	106.6	40.26	32.43	9.6	30.34	188	9	P	V
		5897	51.36	-37.52	88.88	39.61	32.48	9.63	30.36	188	9	P	V
		5931.4	51.2	-17	68.2	39.38	32.52	9.67	30.37	188	9	P	V
													V
													V



WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 159 5795MHz		5617	49.76	-18.44	68.2	38.65	32.14	9.18	30.21	185	9	P	H
		5672.4	50.54	-34.28	84.82	39.28	32.21	9.28	30.23	185	9	P	H
		5701.4	51.27	-54.32	105.59	39.93	32.25	9.34	30.25	185	9	P	H
		5720.6	50.35	-61.82	112.17	38.97	32.27	9.37	30.26	185	9	P	H
	*	5795	103.28	-	-	91.72	32.35	9.51	30.3	185	9	P	H
	*	5795	95.96	-	-	84.4	32.35	9.51	30.3	185	9	A	H
		5852.2	51.84	-65.34	117.18	40.18	32.41	9.58	30.33	185	9	P	H
		5868.2	51.58	-55.52	107.1	39.89	32.43	9.6	30.34	185	9	P	H
		5890.2	51.33	-42.59	93.92	39.59	32.48	9.62	30.36	185	9	P	H
		5937.6	51.75	-16.45	68.2	39.93	32.52	9.68	30.38	185	9	P	H
													H
													H
		5636.2	51.19	-17.01	68.2	40.02	32.17	9.22	30.22	202	20	P	V
		5679.6	50.3	-39.84	90.14	39.04	32.21	9.3	30.25	202	20	P	V
		5709.4	50.88	-56.95	107.83	39.54	32.25	9.35	30.26	202	20	P	V
		5723.4	50.69	-67.86	118.55	39.3	32.27	9.38	30.26	202	20	P	V
	*	5795	101.14	-	-	89.58	32.35	9.51	30.3	202	20	P	V
	*	5795	93.2	-	-	81.64	32.35	9.51	30.3	202	20	A	V
		5853.2	50.76	-64.14	114.9	39.1	32.41	9.58	30.33	202	20	P	V
		5866.2	51.53	-56.13	107.66	39.84	32.43	9.6	30.34	202	20	P	V
		5887.4	51.99	-44	95.99	40.27	32.46	9.62	30.36	202	20	P	V
		5932.8	51.1	-17.1	68.2	39.28	32.52	9.67	30.37	202	20	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 4 5725~5850MHz

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)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 151 5755MHz		11510	46.73	-27.27	74	53.81	40.4	13.93	61.41	100	0	P	H
		17265	50.38	-17.82	68.2	47.96	41.89	17.93	57.4	100	0	P	H
													H
													H
		11510	46.72	-27.28	74	53.8	40.4	13.93	61.41	100	0	P	V
		17265	50.33	-17.87	68.2	47.91	41.89	17.93	57.4	100	0	P	V
													V
													V
802.11n HT40 CH 159 5795MHz		11590	46.47	-27.53	74	53.86	40.18	13.96	61.53	100	0	P	H
		17385	51.17	-17.03	68.2	47.59	42.49	18.08	56.99	100	0	P	H
													H
													H
		11590	46.47	-27.53	74	53.86	40.18	13.96	61.53	100	0	P	V
		17385	51.19	-17.01	68.2	47.61	42.49	18.08	56.99	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 4 5725~5850MHz

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)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 155 5775MHz		5618	50.18	-18.02	68.2	39.07	32.14	9.18	30.21	190	9	P	H
		5691.8	51.79	-47.36	99.15	40.49	32.23	9.32	30.25	190	9	P	H
		5711.8	52.35	-56.16	108.51	41	32.25	9.36	30.26	190	9	P	H
		5724	51.65	-68.27	119.92	40.26	32.27	9.38	30.26	190	9	P	H
	*	5775	97.89	-	-	86.38	32.33	9.47	30.29	190	9	P	H
	*	5775	90.55	-	-	79.04	32.33	9.47	30.29	190	9	A	H
		5852.4	52.46	-64.27	116.73	40.8	32.41	9.58	30.33	190	9	P	H
		5861.4	53.04	-55.97	109.01	41.36	32.43	9.59	30.34	190	9	P	H
		5885	50.93	-46.84	97.77	39.21	32.46	9.62	30.36	190	9	P	H
		5936.2	51.38	-16.82	68.2	39.56	32.52	9.68	30.38	190	9	P	H
													H
													H
		5629	50.01	-18.19	68.2	38.89	32.14	9.2	30.22	196	8	P	V
		5686.2	50.9	-44.12	95.02	39.61	32.23	9.31	30.25	196	8	P	V
		5706	51.58	-55.3	106.88	40.24	32.25	9.35	30.26	196	8	P	V
		5725	52.37	-69.83	122.2	40.98	32.27	9.38	30.26	196	8	P	V
	*	5775	95.61	-	-	84.1	32.33	9.47	30.29	196	8	P	V
	*	5775	87.89	-	-	76.38	32.33	9.47	30.29	196	8	A	V
		5850.2	50.77	-70.97	121.74	39.11	32.41	9.58	30.33	196	8	P	V
		5862	51.35	-57.49	108.84	39.67	32.43	9.59	30.34	196	8	P	V
		5924.8	51.89	-16.46	68.35	40.08	32.52	9.66	30.37	196	8	P	V
		5934.2	51.13	-17.07	68.2	39.31	32.52	9.67	30.37	196	8	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

**Band 4 5725~5850MHz****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)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 155 5775MHz		11550	48.24	-25.76	74	55.49	40.27	13.95	61.47	100	0	P	H
		17325	51.11	-17.09	68.2	48.13	42.15	18.02	57.19	100	0	P	H
													H
													H
		11550	46.69	-27.31	74	53.94	40.27	13.95	61.47	100	0	P	V
		17325	50.6	-17.6	68.2	47.62	42.15	18.02	57.19	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Emission below 1GHz

5GHz WIFI 802.11n HT20 (LF @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
5GHz 802.11n HT20 LF		99.66	39.24	-4.26	43.5	54.47	16.03	1.31	32.57	100	0	P	H
		160.68	35.02	-8.48	43.5	49.35	16.54	1.68	32.55	-	-	P	H
		251.13	28.36	-17.64	46	39.92	18.93	2.04	32.53	-	-	P	H
		385.4	28.04	-17.96	46	36.37	21.76	2.44	32.53	-	-	P	H
		839	31.38	-14.62	46	30.54	29.25	3.61	32.02	-	-	P	H
		894.3	39.74	-6.26	46	38.42	29.33	3.72	31.73	-	-	P	H
													H
													H
													H
													H
													H
													H
		99.12	39.34	-4.16	43.5	54.64	15.96	1.31	32.57	100	0	P	V
		159.87	28.99	-14.51	43.5	43.25	16.62	1.67	32.55	-	-	P	V
		252.48	28.05	-17.95	46	39.56	18.96	2.06	32.53	-	-	P	V
		486.2	25.35	-20.65	46	31.22	23.98	2.7	32.55	-	-	P	V
		629	28.3	-17.7	46	31.32	26.42	3.11	32.55	-	-	P	V
		722.1	31.4	-14.6	46	32.9	27.65	3.28	32.43	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
Remark	1. No other spurious found. 2. 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 over limit line.
P/A	Peak or Average
H/V	Horizontal or Vertical



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

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	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)
802.11b		2390	55.45	-18.55	74	54.51	32.22	4.58	35.86	103	308	P	H
CH 01													
2412MHz		2390	43.54	-10.46	54	42.6	32.22	4.58	35.86	103	308	A	H

1. Path Loss(dB) = Cable loss(dB) + Filter loss(dB) + Attenuator loss(dB)
2. Level(dBμV/m) = Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)
3. Over Limit(dB) = Level(dBμV/m) – Limit Line(dBμV/m)

For Peak Limit @ 2390MHz:

1. Level(dBμV/m)
 = Antenna Factor(dB/m) + Path 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) + Path 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 D. Radiated Spurious Emission Plots

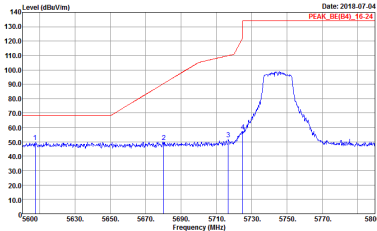
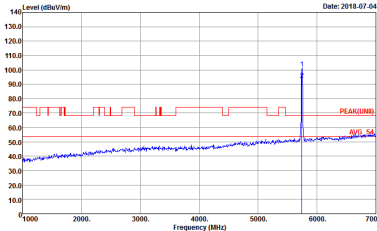
Test Engineer :	Bill Chang, Karl Hou, and Lance Chiang	Temperature :	22~26°C
		Relative Humidity :	52~56%

Note symbol

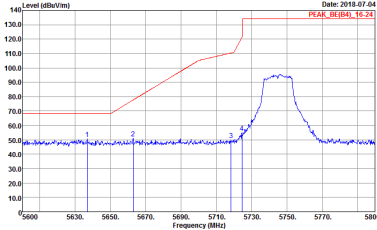
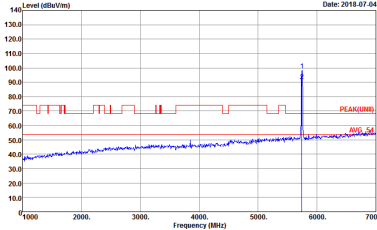
-L	Low channel location
-R	High channel location

Band 4 - 5725~5850MHz

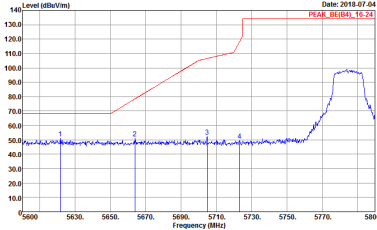
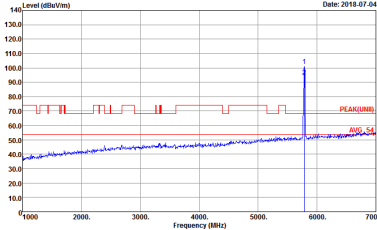
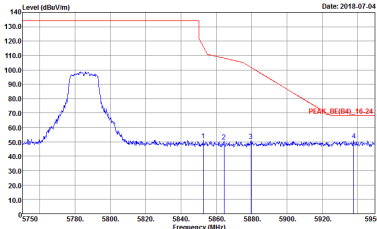
WIFI 802.11a (Band Edge @ 3m)

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH149 5745MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH15-14Y Condition : PEAK_BE(84)_16-24 3m 91200_15_1620 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : 852405 Mode : 129	 Site : 03CH15-14Y Condition : PEAK(UNIT) 3m 91200_15_1620 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : 852405 Mode : 129

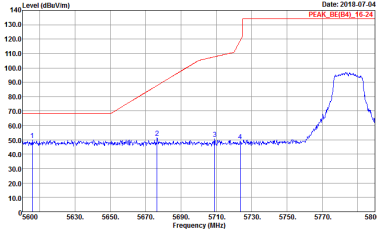
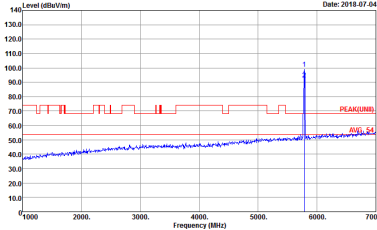
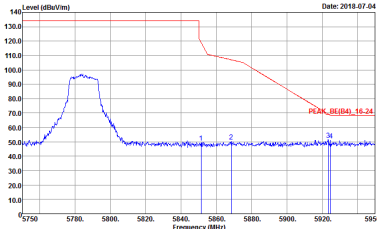


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH149 5745MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH15-14Y Condition : PEAK_BE(B4)_16-24 3m 91200_15_1620 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 852405 129	 Site : 03CH15-14Y Condition : PEAK(UNIT) 3m 91200_15_1620 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 852405 129

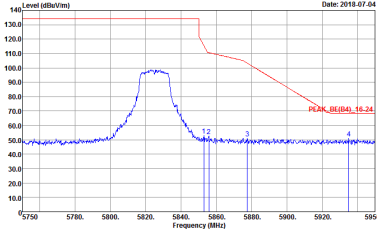
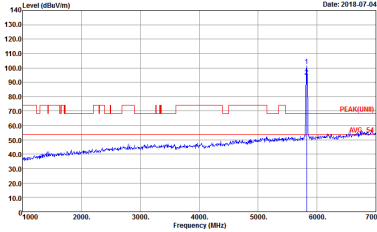


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH157 5785MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE(B4)_16-24 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 852405 Mode : 130	 Site : 03CH15-HY Condition : PEAK(B4)_16-24 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 852405 Mode : 130
	 Site : 03CH15-HY Condition : PEAK_BE(B4)_16-24 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 852405 Mode : 130	Left blank

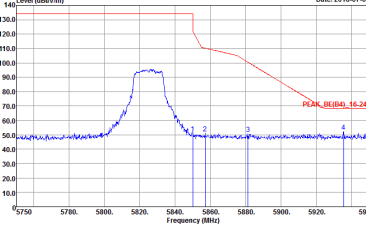
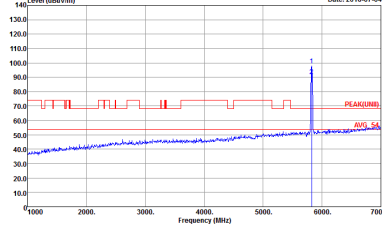


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH157 5785MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE(84)_16-24 3m 91200_15_1620 VERTICAL Detector : Peak Project : 852405 Mode : 130	 Site : 03CH15-HY Condition : PEAK(UNIT) 3m 91200_15_1620 VERTICAL Detector : Peak Project : 852405 Mode : 130
	 Site : 03CH15-HY Condition : PEAK_BE(84)_16-24 3m 91200_15_1620 VERTICAL Detector : Peak Project : 852405 Mode : 130	Left blank



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH165 5825MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH15-11Y Condition : PEAK_BE(B4)_16-24 3m 91200_15_1620 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Project : 852405 Mode : 131	 Site : 03CH15-11Y Condition : PEAK(UNIT) 3m 91200_15_1620 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Project : 852405 Mode : 131

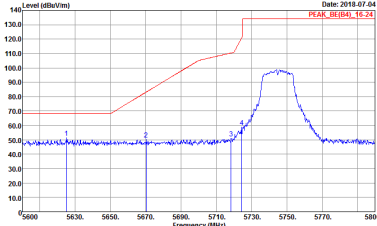
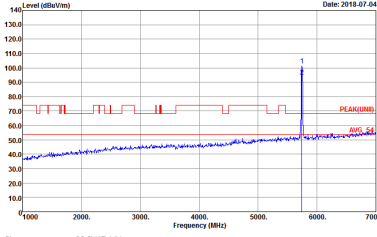


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH165 5825MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH15-11Y Condition : PEAK_BE(B4)_16-24 3m 91200_15_1620 VERTICAL Detector : Peak Project : 852405 Mode : 131	 Site : 03CH15-11Y Condition : PEAK(UNIT) 3m 91200_15_1620 VERTICAL Detector : Peak Project : 852405 Mode : 131

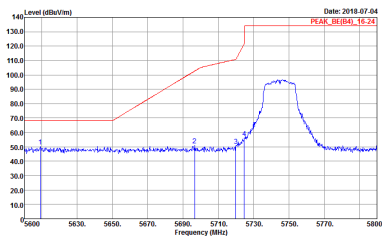
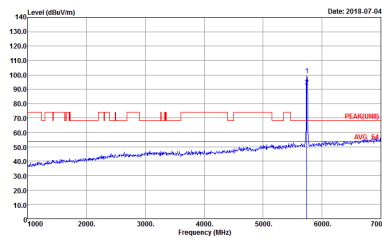


Band 4 5725~5850MHz

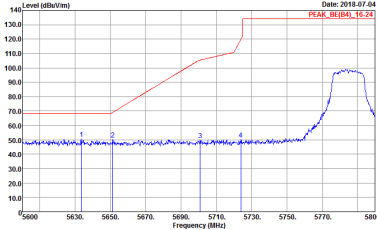
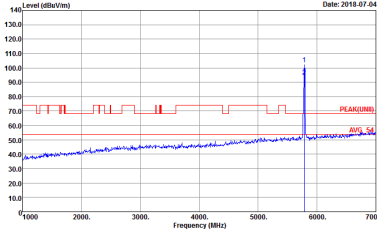
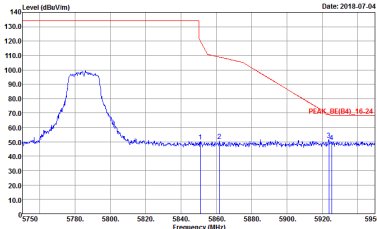
WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH149 5745MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE(84)_16-24 3m 91200_15_1620 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 852405 Mode : 132	 Site : 03CH15-HY Condition : PEAK(UNIT) 3m 91200_15_1620 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 852405 Mode : 132

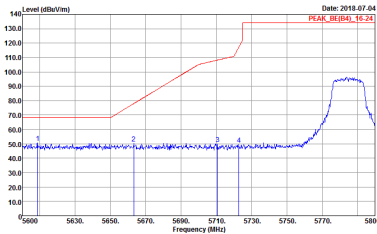
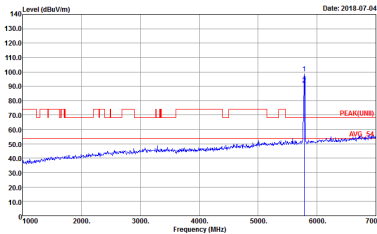
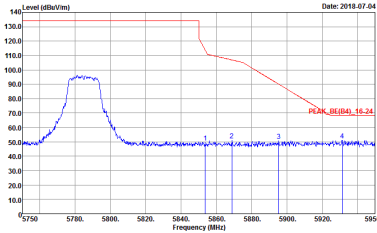


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH149 5745MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH15-11Y Condition : PEAK_BE(B4)_16-24 3m 91200_15_1620 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : 852405 Mode : 132	 Site : 03CH15-11Y Condition : PEAK(UNIT) 3m 91200_15_1620 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : 852405 Mode : 132

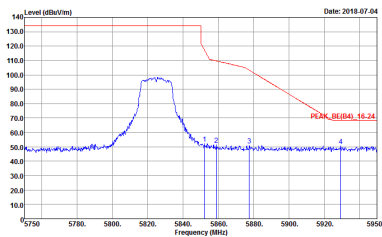
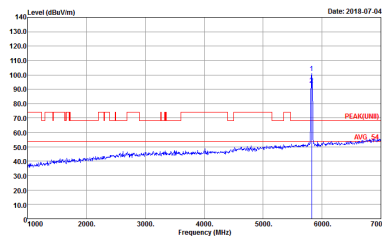


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH157 5785MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE(B4)_16-24 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 852405 Mode : 133	 Site : 03CH15-HY Condition : PEAK(B4)_16-24 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 852405 Mode : 133
	 Site : 03CH15-HY Condition : PEAK_BE(B4)_16-24 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 852405 Mode : 133	Left blank

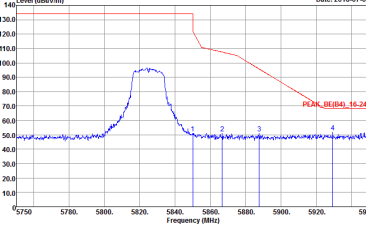
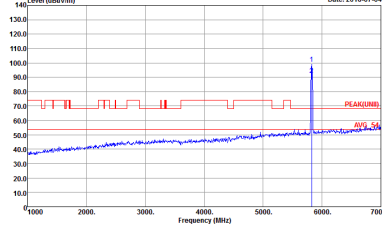


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH157 5785MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE(84)_16-24 3m 91200_15_1620 VERTICAL Detector : Peak Project : 852405 Mode : 133	 Site : 03CH15-HY Condition : PEAK(UNIT) 3m 91200_15_1620 VERTICAL Detector : Peak Project : 852405 Mode : 133
	 Site : 03CH15-HY Condition : PEAK_BE(84)_16-24 3m 91200_15_1620 VERTICAL Detector : Peak Project : 852405 Mode : 133	Left blank



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH165 5825MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH15-11Y Condition : PEAK_8E(B4)_16-24 3m 91200_15_1620 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 852405 Mode : 134	 Site : 03CH15-11Y Condition : PEAK_8E(B4)_16-24 3m 91200_15_1620 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 852405 Mode : 134



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH165 5825MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH15-11Y Condition : PEAK_BE(B4)_16-24 3m 91200_15_1620 VERTICAL Detector : Peak Project : 852405 Mode : 134	 Site : 03CH15-11Y Condition : PEAK(UNIT) 3m 91200_15_1620 VERTICAL Detector : Peak Project : 852405 Mode : 134

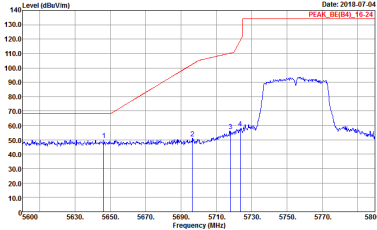
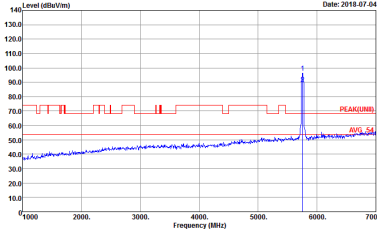
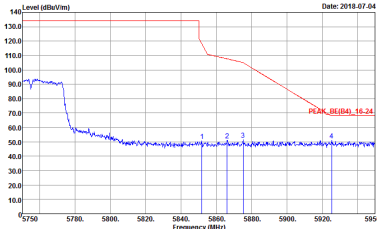


Band 4 5725~5850MHz

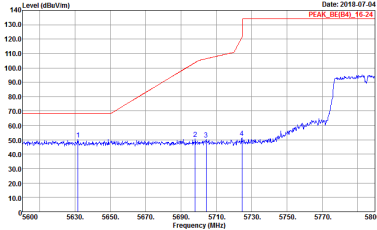
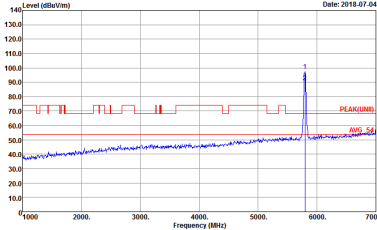
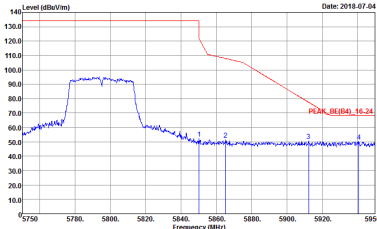
WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT40 CH151 5755MHz	
1	Horizontal	Fundamental
Peak	Site : 03CH15-HY Condition : PEAK_BE(B4)_16-24 3m 91200_15_1620 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 852405 135	Site : 03CH15-HY Condition : PEAK(UNIT) 3m 91200_15_1620 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 852405 135
Peak	Site : 03CH15-HY Condition : PEAK_BE(B4)_16-24 3m 91200_15_1620 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 852405 135	Left blank

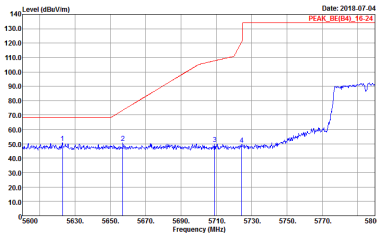
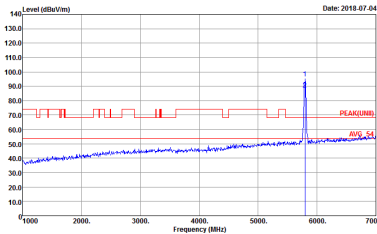
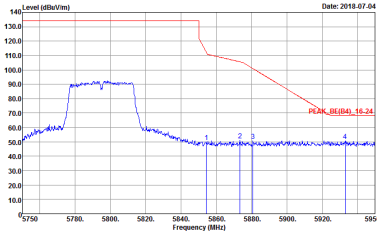


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT40 CH151 5755MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE(B4)_16-24 3m 91200_15_1620 VERTICAL Detector : Peak Project : 852405 Mode : 135	 Site : 03CH15-HY Condition : PEAK(UNIT) 3m 91200_15_1620 VERTICAL Detector : Peak Project : 852405 Mode : 135
	 Site : 03CH15-HY Condition : PEAK_BE(B4)_16-24 3m 91200_15_1620 VERTICAL Detector : Peak Project : 852405 Mode : 135	Left blank



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT40 CH159 5795MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE(84)_16-24 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 852405 Mode : 136	 Site : 03CH15-HY Condition : PEAK(UNIT) 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 852405 Mode : 136
	 Site : 03CH15-HY Condition : PEAK_BE(84)_16-24 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 852405 Mode : 136	Left blank

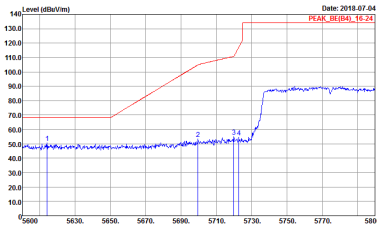
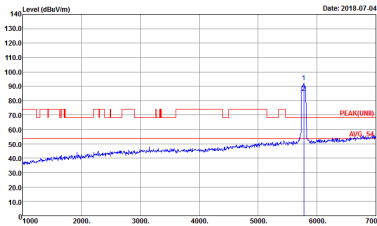
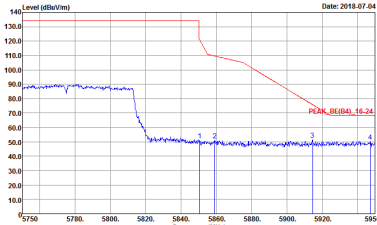


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT40 CH159 5795MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE(B4)_16-24 3m 91200_15_1620 VERTICAL Detector : Peak Project : 852405 Mode : 136	 Site : 03CH15-HY Condition : PEAK(UNIT) 3m 91200_15_1620 VERTICAL Detector : Peak Project : 852405 Mode : 136
	 Site : 03CH15-HY Condition : PEAK_BE(B4)_16-24 3m 91200_15_1620 VERTICAL Detector : Peak Project : 852405 Mode : 136	Left blank

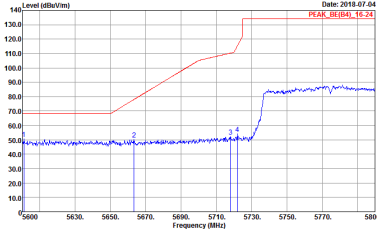
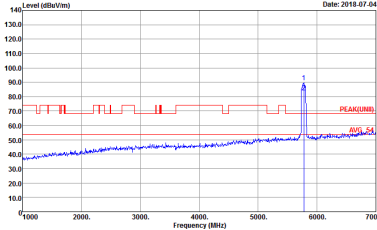
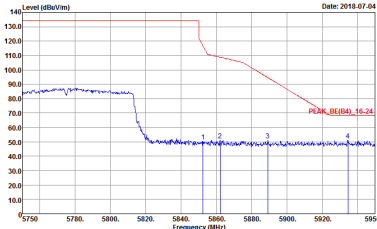


Band 4 5725~5850MHz

WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH155 5775MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE(B4)_16-24 3m 91200_15_1620 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 852405 137	 Site : 03CH15-HY Condition : PEAK(UNIT) 3m 91200_15_1620 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 852405 137
Peak	 Site : 03CH15-HY Condition : PEAK_BE(B4)_16-24 3m 91200_15_1620 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 852405 137	Left blank

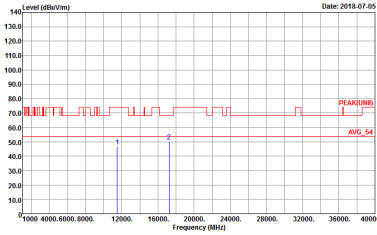
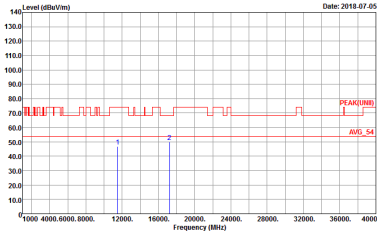


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH155 5775MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE(B4)_16-24 3m 91200_15_1620 VERTICAL Detector : Peak Project : 852405 Mode : 137	 Site : 03CH15-HY Condition : PEAK_BE(B4)_16-24 3m 91200_15_1620 VERTICAL Detector : Peak Project : 852405 Mode : 137
	 Site : 03CH15-HY Condition : PEAK_BE(B4)_16-24 3m 91200_15_1620 VERTICAL Detector : Peak Project : 852405 Mode : 137	Left blank

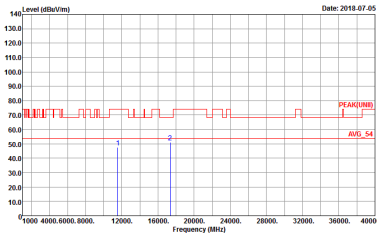
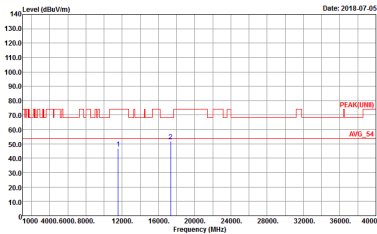


Band 4 - 5725~5850MHz

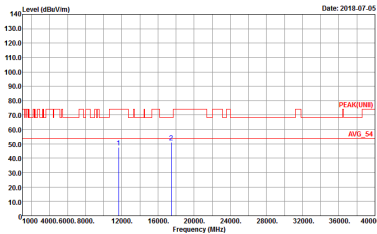
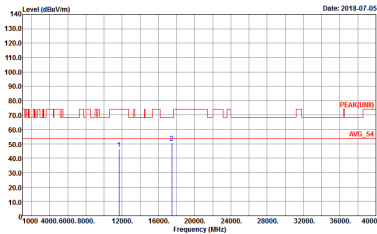
WIFI 802.11a (Harmonic @ 3m)

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH149 5745MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH15-HY Condition : PEAK(UNIT) 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 852405 Mode : 129	 Site : 03CH15-HY Condition : PEAK(UNIT) 3m 91200_15_1620 VERTICAL Detector : Peak Project : 852405 Mode : 129



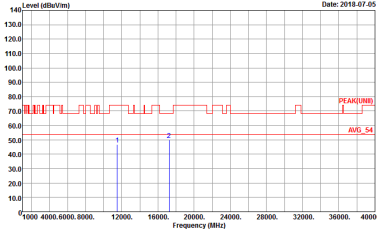
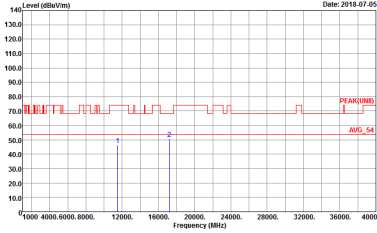
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH157 5785MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH15-11Y Condition : PEAK(UNII) 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 852405 Mode : 130	 Site : 03CH15-11Y Condition : PEAK(UNII) 3m 91200_15_1620 VERTICAL Detector : Peak Project : 852405 Mode : 130



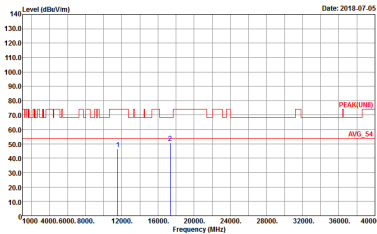
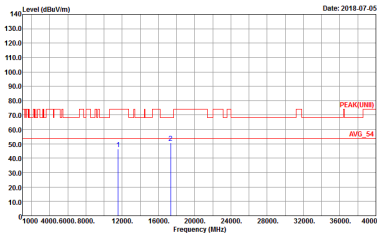
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH165 5825MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH15-11Y Condition : PEAK(UNII) 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 852405 Mode : 131	 Site : 03CH15-11Y Condition : PEAK(UNII) 3m 91200_15_1620 VERTICAL Detector : Peak Project : 852405 Mode : 131



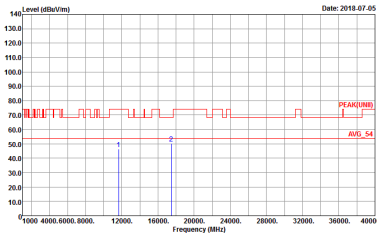
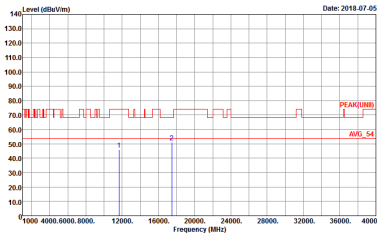
Band 4 5725~5850MHz
WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11n HT20 CH149 5745MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH15-HY Condition : PEAK(UNIT) 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 852405 Mode : 132	 Site : 03CH15-HY Condition : PEAK(UNIT) 3m 91200_15_1620 VERTICAL Detector : Peak Project : 852405 Mode : 132



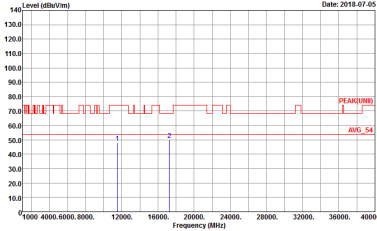
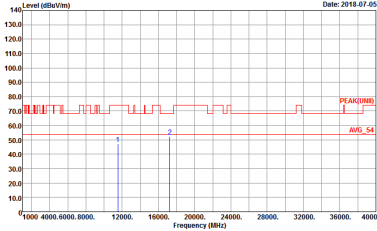
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11n HT20 CH157 5785MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH15-11Y Condition : PEAK(UNII) 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 852405 Mode : 133	 Site : 03CH15-11Y Condition : PEAK(UNII) 3m 91200_15_1620 VERTICAL Detector : Peak Project : 852405 Mode : 133



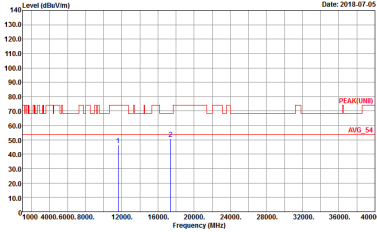
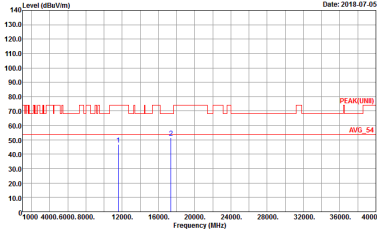
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11n HT20 CH165 5825MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH15-11Y Condition : PEAK(UNII) 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 852405 Mode : 134	 Site : 03CH15-11Y Condition : PEAK(UNII) 3m 91200_15_1620 VERTICAL Detector : Peak Project : 852405 Mode : 134



Band 4 5725~5850MHz
WIFI 802.11n HT40 (Harmonic @ 3m)

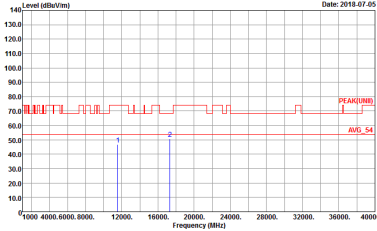
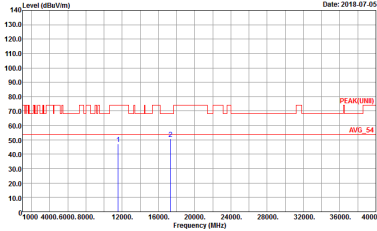
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11n HT40 CH151 5755MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH15-HY Condition : PEAK(UNIT) 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 852405 Mode : 135	 Site : 03CH15-HY Condition : PEAK(UNIT) 3m 91200_15_1620 VERTICAL Detector : Peak Project : 852405 Mode : 135



WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11n HT40 CH159 5795MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH15-11Y Condition : PEAK(UNII) 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 852405 Mode : 136	 Site : 03CH15-11Y Condition : PEAK(UNII) 3m 91200_15_1620 VERTICAL Detector : Peak Project : 852405 Mode : 136



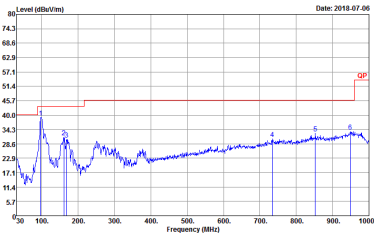
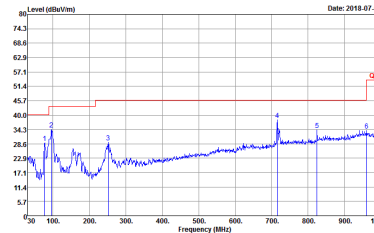
Band 4 5725~5850MHz
WIFI 802.11ac VHT80 (Harmonic @ 3m)

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ac VHT80 CH155 5775MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH15-HY Condition : PEAK(UNIT) 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 852405 Mode : 147	 Site : 03CH15-HY Condition : PEAK(UNIT) 3m 91200_15_1620 VERTICAL Detector : Peak Project : 852405 Mode : 147



Emission below 1GHz

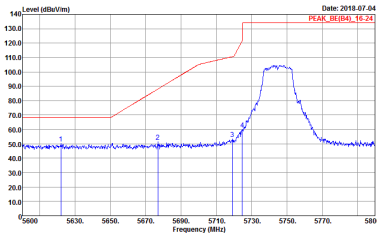
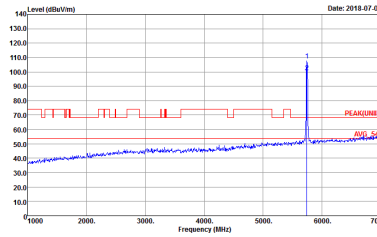
5GHz WIFI 802.11n HT40 (LF)

WIFI	5GHz 5725~5850MHz	
ANT	802.11n HT40 LF	
1	Horizontal	Vertical
QP / Peak	 Site : 03CH15-HY Condition : QP 3m B1LOG_15_41912 HORIZONTAL Detector : Peak Project : 852405 Mode : 138	 Site : 03CH15-HY Condition : QP 3m B1LOG_15_41912 VERTICAL Detector : Peak Project : 852405 Mode : 138

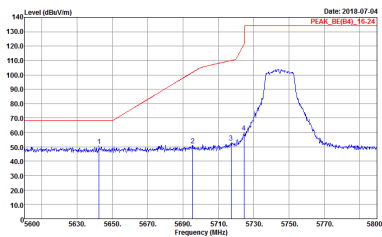
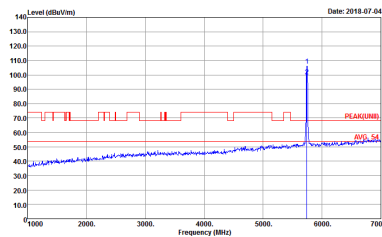


Band 4 - 5725~5850MHz

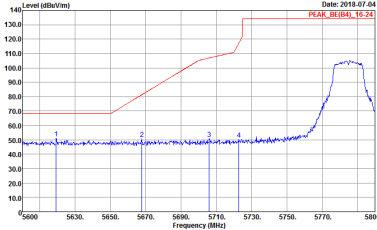
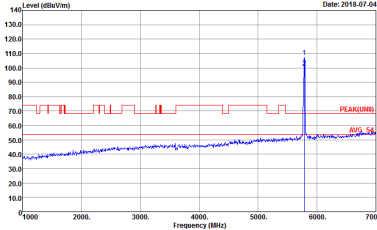
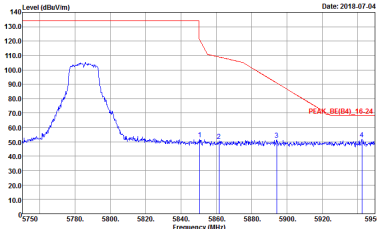
WIFI 802.11a (Band Edge @ 3m)

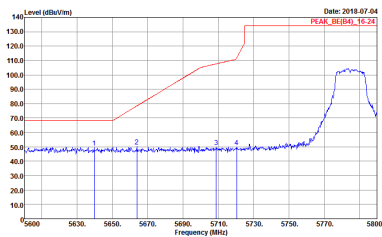
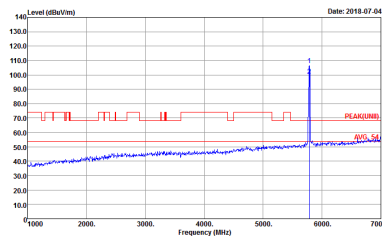
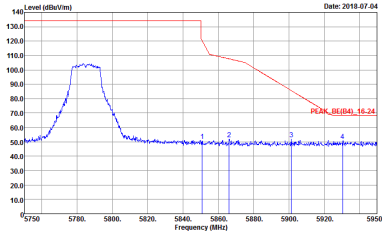
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH149 5745MHz	
2	Horizontal	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE(84)_16-24 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 852405 Mode : 139	 Site : 03CH15-HY Condition : PEAK(FUND)_16-24 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 852405 Mode : 139



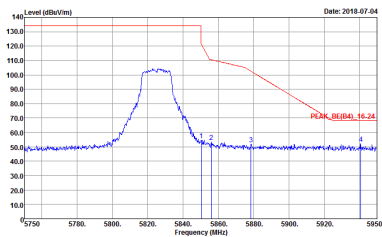
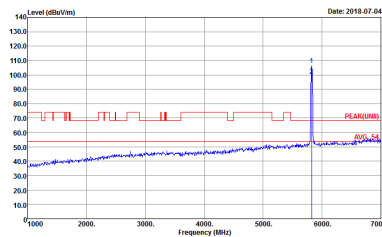
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH149 5745MHz	
2	Vertical	Fundamental
Peak	 Site : 03CH15-11Y Condition : PEAK_BE(B4)_16-24 3m 91200_15_1620 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Project : 852405 Mode : 139	 Site : 03CH15-11Y Condition : PEAK(UNIT) 3m 91200_15_1620 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Project : 852405 Mode : 139



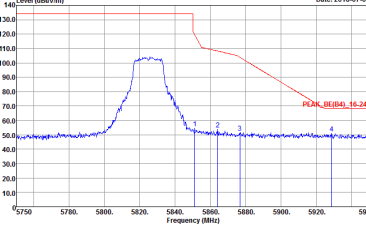
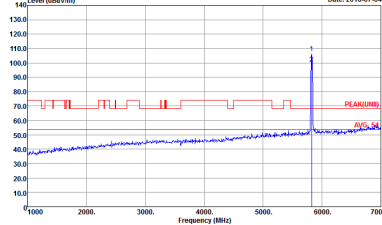
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH157 5785MHz	
2	Horizontal	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE(B4)_16-24 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 852405 Mode : 140	 Site : 03CH15-HY Condition : PEAK(UNIT) 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 852405 Mode : 140
	 Site : 03CH15-HY Condition : PEAK_BE(B4)_16-24 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 852405 Mode : 140	Left blank

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH157 5785MHz	
2	Vertical	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE(84)_16-24 3m 91200_15_1620 VERTICAL Detector : Peak Project : 852405 Mode : 140	 Site : 03CH15-HY Condition : PEAK(UNIT) 3m 91200_15_1620 VERTICAL Detector : Peak Project : 852405 Mode : 140
	 Site : 03CH15-HY Condition : PEAK_BE(84)_16-24 3m 91200_15_1620 VERTICAL Detector : Peak Project : 852405 Mode : 140	Left blank



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH165 5825MHz	
2	Horizontal	Fundamental
Peak	 Site : 03CH15-11Y Condition : PEAK_BE(B4)_16-24 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 852405 Mode : 141	 Site : 03CH15-11Y Condition : PEAK(UNIT) 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 852405 Mode : 141

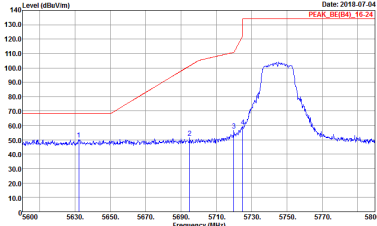
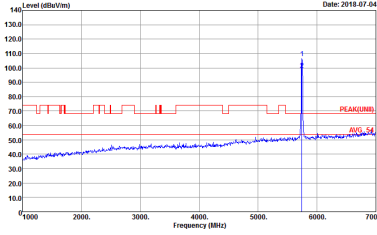


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH165 5825MHz	
2	Vertical	Fundamental
Peak	 Site : 03CH15-14Y Condition : PEAK_BE(B4)_16-24 3m 91200_15_1620 VERTICAL Detector : Peak Project : 852405 Mode : 141	 Site : 03CH15-14Y Condition : PEAK(UNIT) 3m 91200_15_1620 VERTICAL Detector : Peak Project : 852405 Mode : 141

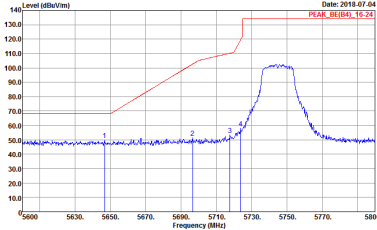
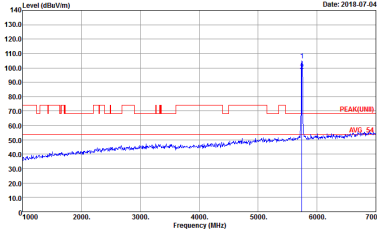


Band 4 5725~5850MHz

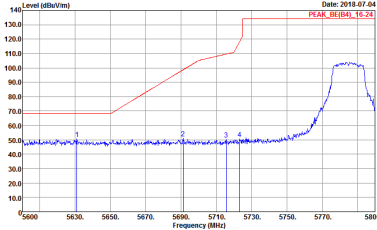
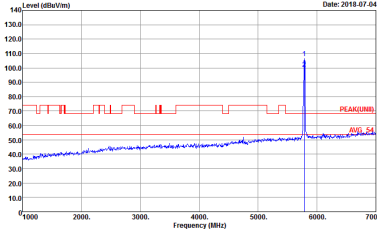
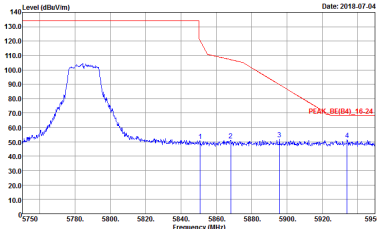
WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH149 5745MHz	
2	Horizontal	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE(84)_16-24 3m 91200_15_1620 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : 852405 Mode : 142	 Site : 03CH15-HY Condition : PEAK(UNIT) 3m 91200_15_1620 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : 852405 Mode : 142

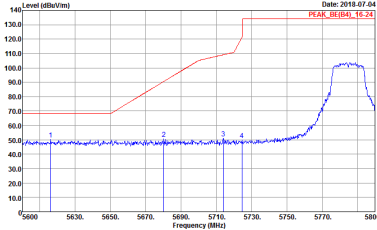
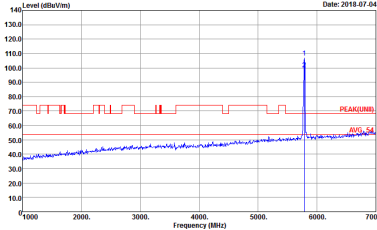
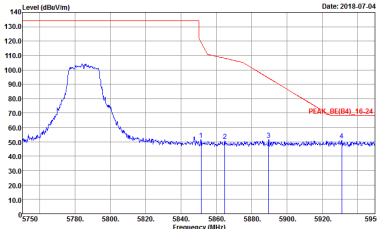


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH149 5745MHz	
2	Vertical	Fundamental
Peak	 Site : 03CH15-11Y Condition : PEAK_BE(B4)_16-24 3m 91200_15_1620 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : 852405 Mode : 142	 Site : 03CH15-11Y Condition : PEAK(UNIT) 3m 91200_15_1620 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : 852405 Mode : 142

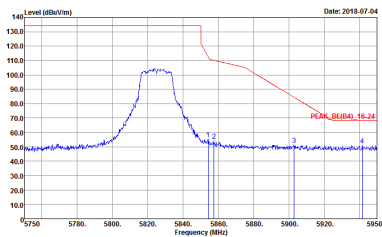
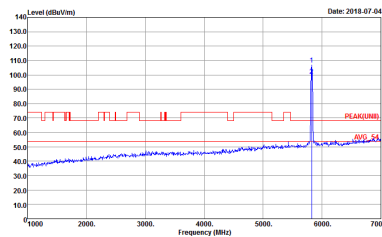


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH157 5785MHz	
2	Horizontal	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE(B4)_16-24 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 852405 Mode : 143	 Site : 03CH15-HY Condition : PEAK(B4)_16-24 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 852405 Mode : 143
	 Site : 03CH15-HY Condition : PEAK_BE(B4)_16-24 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 852405 Mode : 143	Left blank

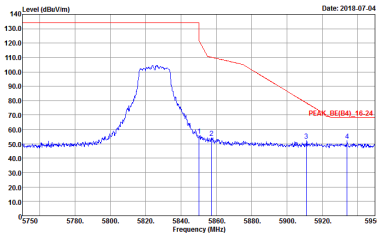
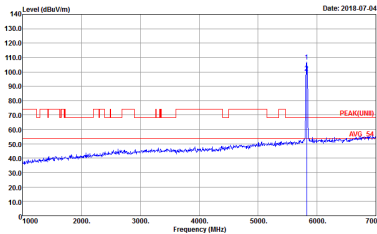


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH157 5785MHz	
2	Vertical	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE(B4)_16-24 3m 91200_15_1620 VERTICAL Detector : Peak Project : 852405 Mode : 143	 Site : 03CH15-HY Condition : PEAK(UNIT) 3m 91200_15_1620 VERTICAL Detector : Peak Project : 852405 Mode : 143
	 Site : 03CH15-HY Condition : PEAK_BE(B4)_16-24 3m 91200_15_1620 VERTICAL Detector : Peak Project : 852405 Mode : 143	Left blank



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH165 5825MHz	
2	Horizontal	Fundamental
Peak	 Site : 03CH15-14Y Condition : PEAK_BE(B4)_16-24 3m 91200_15_1620 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 852405 Mode : 144	 Site : 03CH15-14Y Condition : PEAK(UNIT) 3m 91200_15_1620 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 852405 Mode : 144

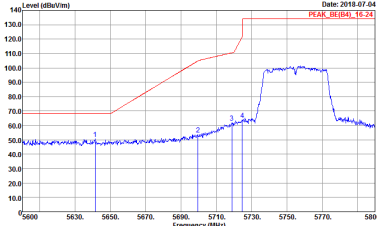
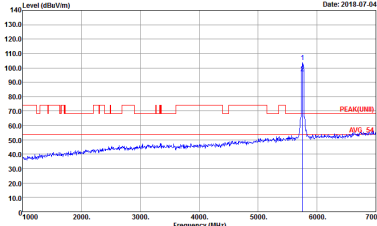
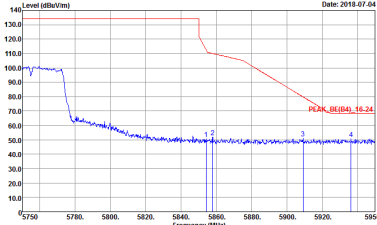


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH165 5825MHz	
2	Vertical	Fundamental
Peak	 Site : 03CH15-14Y Condition : PEAK_BE(B4)_16-24 3m 91200_15_1620 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 852405 Mode : 144	 Site : 03CH15-14Y Condition : PEAK(UNIT) 3m 91200_15_1620 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 852405 Mode : 144

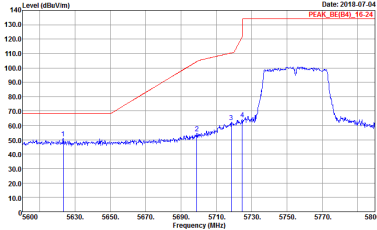
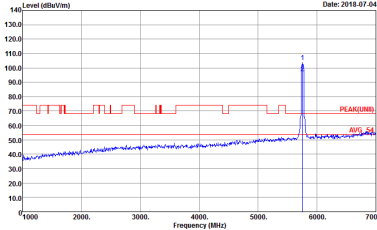
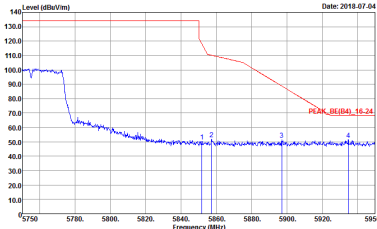


Band 4 5725~5850MHz

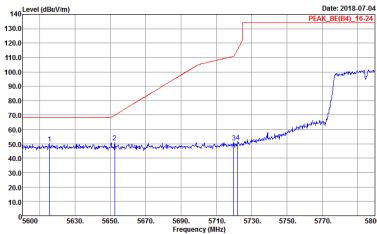
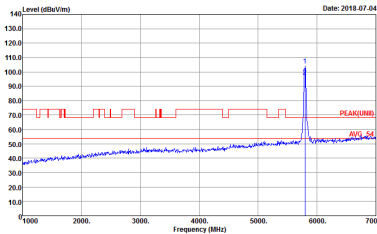
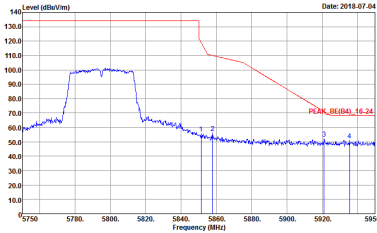
WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT40 CH151 5755MHz	
2	Horizontal	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE(B4)_16-24 3m 91200_15_1620 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 852405 145	 Site : 03CH15-HY Condition : PEAK(UNIT) 3m 91200_15_1620 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 852405 145
Peak	 Site : 03CH15-HY Condition : PEAK_BE(B4)_16-24 3m 91200_15_1620 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 852405 145	Left blank

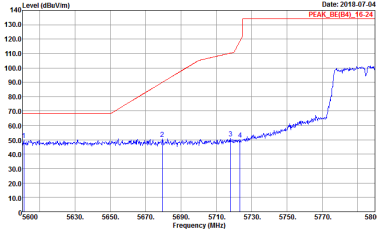
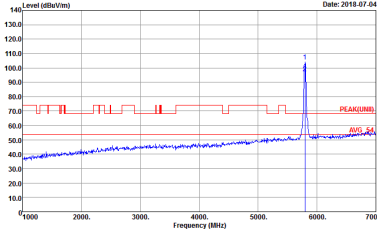
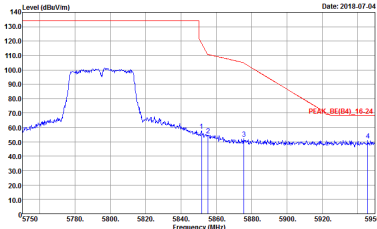


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT40 CH151 5755MHz	
2	Vertical	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE(B4)_16-24 3m 91200_15_1620 VERTICAL Detector : Peak Project : 852405 Mode : 145	 Site : 03CH15-HY Condition : PEAK(BE(B4)_16-24 3m 91200_15_1620 VERTICAL Detector : Peak Project : 852405 Mode : 145
	 Site : 03CH15-HY Condition : PEAK_BE(B4)_16-24 3m 91200_15_1620 VERTICAL Detector : Peak Project : 852405 Mode : 145	Left blank



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT40 CH159 5795MHz	
2	Horizontal	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE(B4)_16-24 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 852405 Mode : 146	 Site : 03CH15-HY Condition : PEAK(B4)_16-24 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 852405 Mode : 146
	 Site : 03CH15-HY Condition : PEAK_BE(B4)_16-24 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 852405 Mode : 146	Left blank

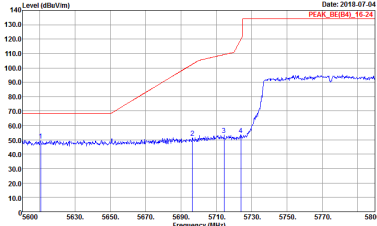
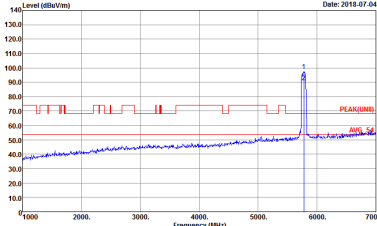
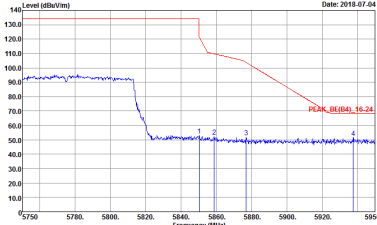


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT40 CH159 5795MHz	
2	Vertical	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE(B4)_16-24 3m 91200_15_1620 VERTICAL Detector : Peak Project : 852405 Mode : 146	 Site : 03CH15-HY Condition : PEAK(UNIT) 3m 91200_15_1620 VERTICAL Detector : Peak Project : 852405 Mode : 146
	 Site : 03CH15-HY Condition : PEAK_BE(B4)_16-24 3m 91200_15_1620 VERTICAL Detector : Peak Project : 852405 Mode : 146	Left blank

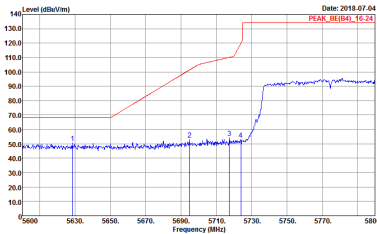
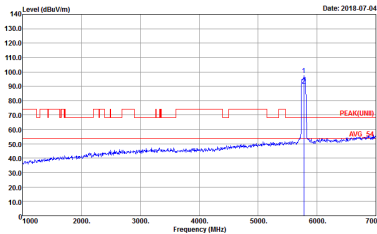
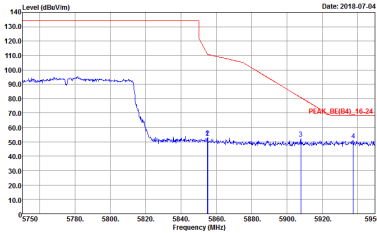


Band 4 5725~5850MHz

WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH155 5775MHz	
2	Horizontal	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE(B4)_16-24 3m 91200_15_1620 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 852405 147	 Site : 03CH15-HY Condition : PEAK(UNIT) 3m 91200_15_1620 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 852405 147
Peak	 Site : 03CH15-HY Condition : PEAK_BE(B4)_16-24 3m 91200_15_1620 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 852405 147	Left blank

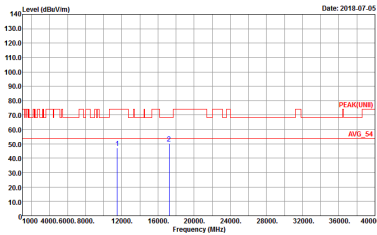
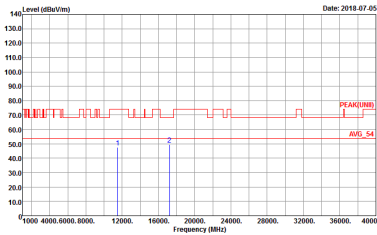


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH155 5775MHz	
2	Vertical	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE(B4)_16-24 3m 91200_15_1620 VERTICAL Detector : Peak Project : 852405 Mode : 147	 Site : 03CH15-HY Condition : PEAK(BE(B4)_16-24 3m 91200_15_1620 VERTICAL Detector : Peak Project : 852405 Mode : 147
	 Site : 03CH15-HY Condition : PEAK_BE(B4)_16-24 3m 91200_15_1620 VERTICAL Detector : Peak Project : 852405 Mode : 147	Left blank

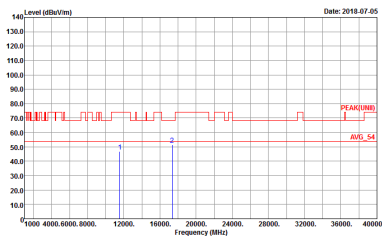
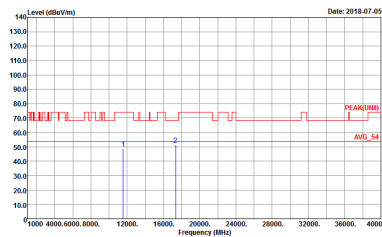


Band 4 - 5725~5850MHz

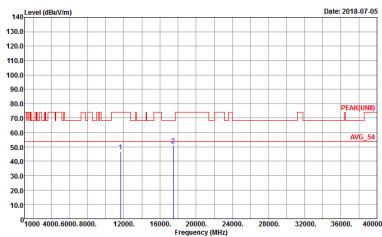
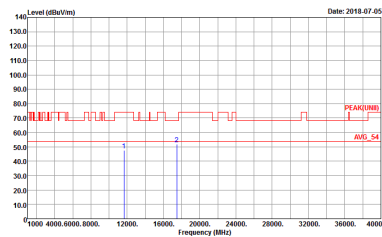
WIFI 802.11a (Harmonic @ 3m)

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH149 5745MHz	
2	Horizontal	Vertical
Peak Avg.	 Site : 03CH15-HY Condition : PEAK(UNIT) 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 852405 Mode : 139	 Site : 03CH15-HY Condition : PEAK(UNIT) 3m 91200_15_1620 VERTICAL Detector : Peak Project : 852405 Mode : 139



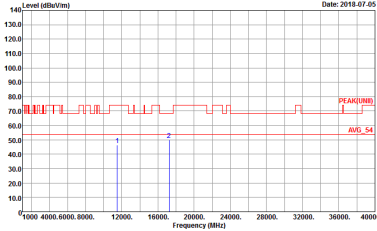
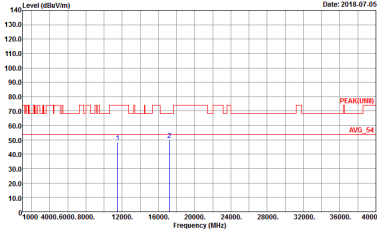
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH157 5785MHz	
2	Horizontal	Vertical
Peak Avg.	 Site : 03CH15-11Y Condition : PEAK(UNB) 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 852405 Mode : 140	 Site : 03CH15-11Y Condition : PEAK(UNB) 3m 91200_15_1620 VERTICAL Detector : Peak Project : 852405 Mode : 140



WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH165 5825MHz	
2	Horizontal	Vertical
Peak Avg.	 Site : 03CH15-14Y Condition : PEAK(UNII) 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 852405 Mode : 141	 Site : 03CH15-14Y Condition : PEAK(UNII) 3m 91200_15_1620 VERTICAL Detector : Peak Project : 852405 Mode : 141



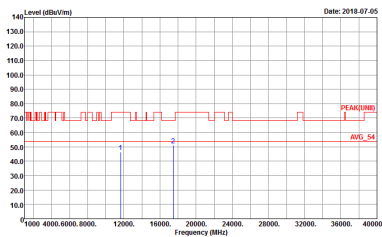
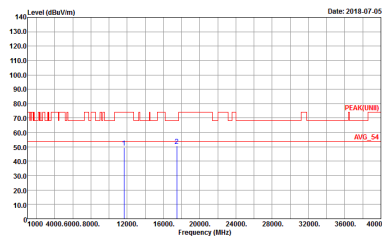
Band 4 5725~5850MHz
WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11n HT20 CH149 5745MHz	
2	Horizontal	Vertical
Peak Avg.	 Site : 03CH15-HY Condition : PEAK(UNIT) 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 852405 Mode : 142	 Site : 03CH15-HY Condition : PEAK(UNIT) 3m 91200_15_1620 VERTICAL Detector : Peak Project : 852405 Mode : 142



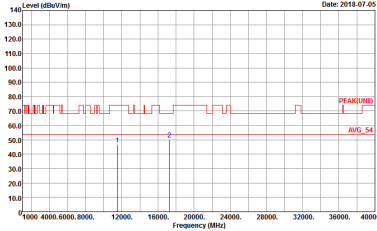
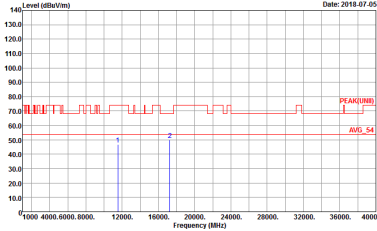
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11n HT20 CH157 5785MHz	
2	Horizontal	Vertical
Peak Avg.	Level (dBu/Vm) Date: 2018.07.05 Site : 03CH15-11Y Condition : PEAK(UNII) 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 852405 Mode : 143	Level (dBu/Vm) Date: 2018.07.05 Site : 03CH15-11Y Condition : PEAK(UNII) 3m 91200_15_1620 VERTICAL Detector : Peak Project : 852405 Mode : 143



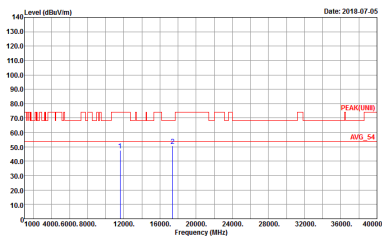
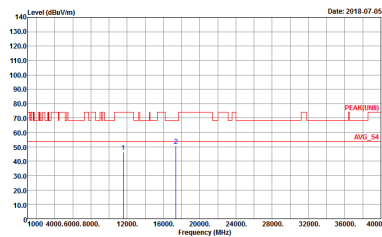
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11n HT20 CH165 5825MHz	
2	Horizontal	Vertical
Peak Avg.	 Site : 03CH15-11Y Condition : PEAK(UNII) 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 852405 Mode : 144	 Site : 03CH15-11Y Condition : PEAK(UNII) 3m 91200_15_1620 VERTICAL Detector : Peak Project : 852405 Mode : 144



Band 4 5725~5850MHz
WIFI 802.11n HT40 (Harmonic @ 3m)

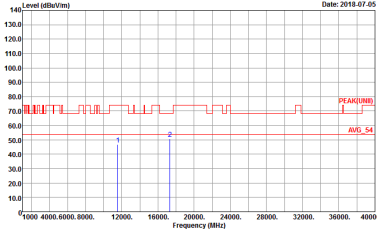
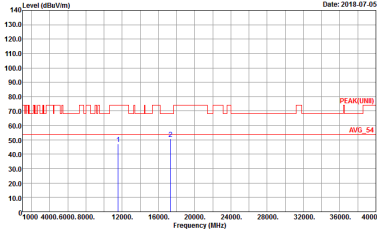
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11n HT40 CH151 5755MHz	
2	Horizontal	Vertical
Peak Avg.	 Site : 03CH15-HY Condition : PEAK(UNIT) 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 852405 Mode : 145	 Site : 03CH15-HY Condition : PEAK(UNIT) 3m 91200_15_1620 VERTICAL Detector : Peak Project : 852405 Mode : 145



WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11n HT40 CH159 5795MHz	
2	Horizontal	Vertical
Peak Avg.	 Site : 03CH15-11Y Condition : PEAK(UNII) 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 852405 Mode : 146	 Site : 03CH15-11Y Condition : PEAK(UNII) 3m 91200_15_1620 VERTICAL Detector : Peak Project : 852405 Mode : 146



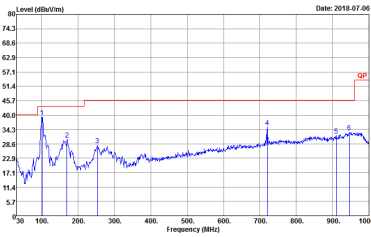
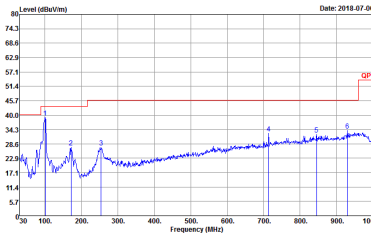
Band 4 5725~5850MHz
WIFI 802.11ac VHT80 (Harmonic @ 3m)

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ac VHT80 CH155 5775MHz	
2	Horizontal	Vertical
Peak Avg.	 Site : 03CH15-HY Condition : PEAK(UNIT) 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 852405 Mode : 147	 Site : 03CH15-HY Condition : PEAK(UNIT) 3m 91200_15_1620 VERTICAL Detector : Peak Project : 852405 Mode : 147



Emission below 1GHz

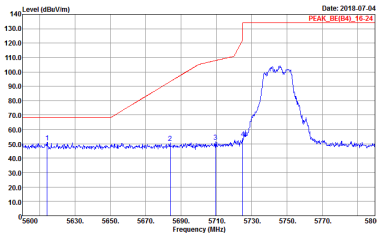
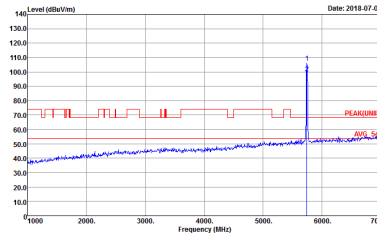
5GHz WIFI 802.11n HT20 (LF)

WIFI	5GHz 5725~5850MHz	
ANT	802.11n HT20 LF	
2	Horizontal	Vertical
QP / Peak	 Site : 03CH15-HY Condition : QP 3m B1LOG_15_41912 HORIZONTAL Detector : Peak Project : 852405 Mode : 148	 Site : 03CH15-HY Condition : QP 3m B1LOG_15_41912 VERTICAL Detector : Peak Project : 852405 Mode : 148

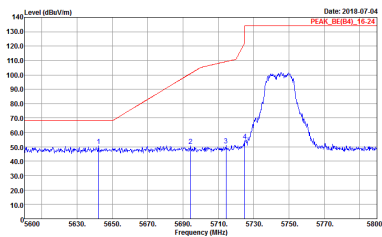
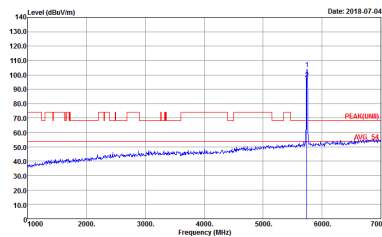


Band 4 - 5725~5850MHz

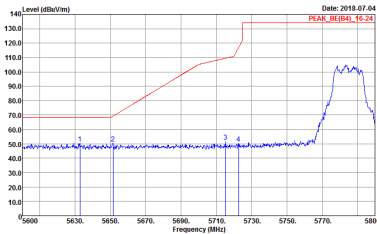
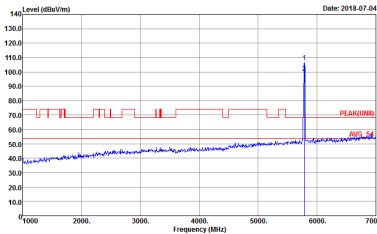
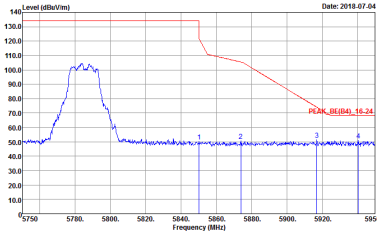
WIFI 802.11a (Band Edge @ 3m)

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH149 5745MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE(04)_16-24 3m 91200_15_1620 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 852405 Mode : 149	 Site : 03CH15-HY Condition : PEAK(FUND)_3m 91200_15_1620 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 852405 Mode : 149

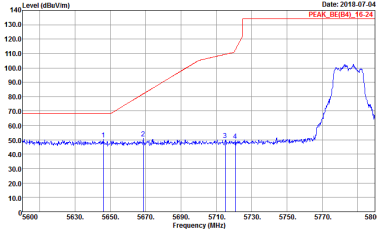
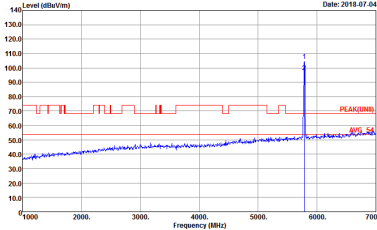
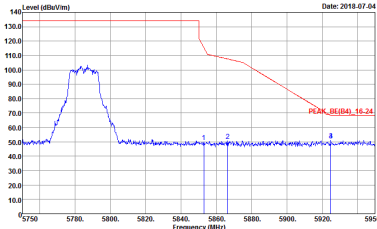


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH149 5745MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH15-149 Condition : PEAK_BE(B4)_16-24 3m 91200_15_1620 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 852405 Mode : 149	 Site : 03CH15-149 Condition : PEAK(UNIT) 3m 91200_15_1620 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 852405 Mode : 149

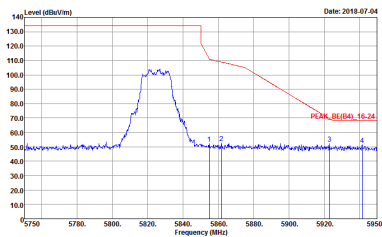
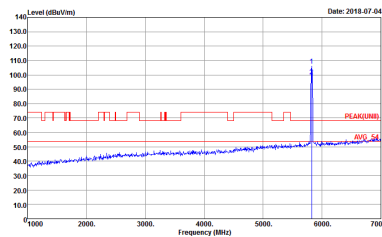


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH157 5785MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE(B4)_16-24 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 852405 Mode : 150	 Site : 03CH15-HY Condition : PEAK(BE(B4)_16-24 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 852405 Mode : 150
	 Site : 03CH15-HY Condition : PEAK_BE(B4)_16-24 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 852405 Mode : 150	Left blank

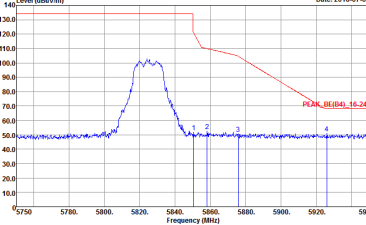
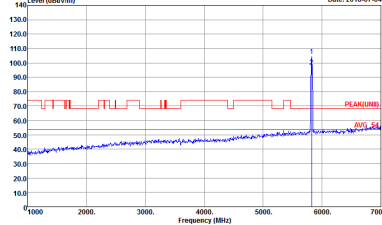


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH157 5785MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE(B4)_16-24 3m 91200_15_1620 VERTICAL Detector : Peak Project : 852405 Mode : 150	 Site : 03CH15-HY Condition : PEAK(UNIT) 3m 91200_15_1620 VERTICAL Detector : Peak Project : 852405 Mode : 150
Peak	 Site : 03CH15-HY Condition : PEAK_BE(B4)_16-24 3m 91200_15_1620 VERTICAL Detector : Peak Project : 852405 Mode : 150	Left blank



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH165 5825MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH15-11Y Condition : PEAK_BE(B4)_16-24 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 852405 Mode : 151	 Site : 03CH15-11Y Condition : PEAK(UNIT) 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 852405 Mode : 151

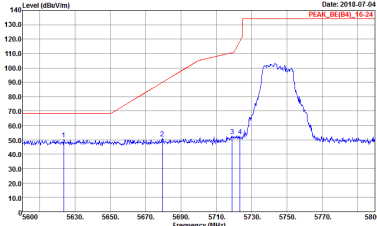
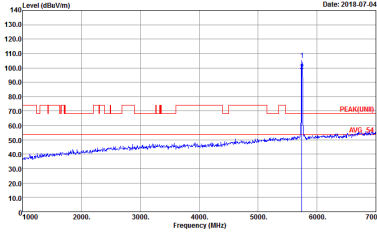


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH165 5825MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH15-11Y Condition : PEAK_BE(B4)_16-24 3m 91200_15_1620 VERTICAL Detector : Peak Project : 852405 Mode : 151	 Site : 03CH15-11Y Condition : PEAK(UNIT) 3m 91200_15_1620 VERTICAL Detector : Peak Project : 852405 Mode : 151

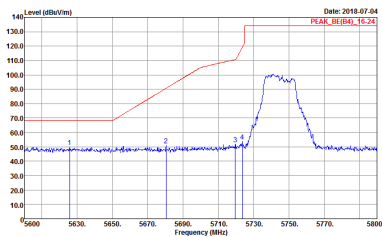
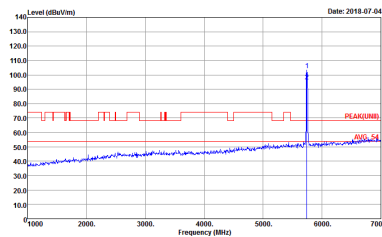


Band 4 5725~5850MHz

WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH149 5745MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE(84)_16-24 3m 91200_15_1620 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 852405 Mode : 152	 Site : 03CH15-HY Condition : PEAK(UNIT) 3m 91200_15_1620 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 852405 Mode : 152

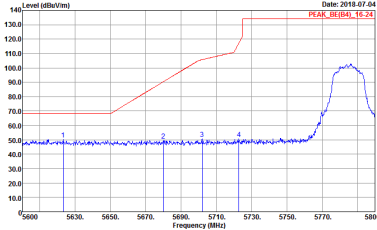
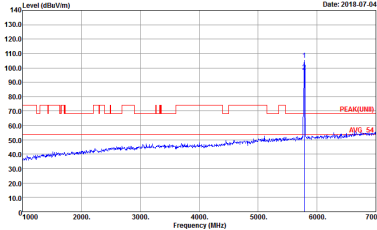
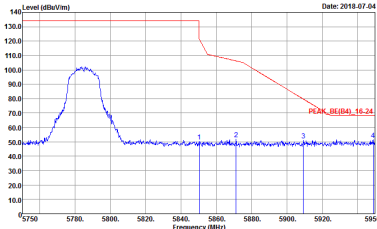


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH149 5745MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH15-11Y Condition : PEAK_BE(B4)_16-24 3m 91200_15_1620 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 852405 Mode : 152	 Site : 03CH15-11Y Condition : PEAK(UNIT) 3m 91200_15_1620 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 852405 Mode : 152

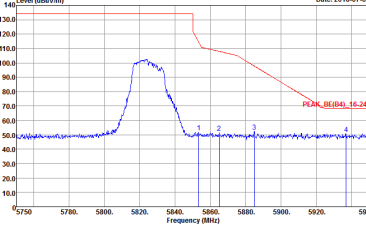
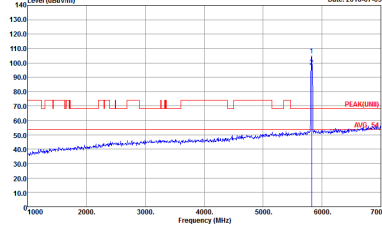


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH157 5785MHz	
1+2	Horizontal	Fundamental
Peak	Site : 03CH15-HY Condition : PEAK_BE(B4)_16-24 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 852405 Mode : 153	Site : 03CH15-HY Condition : PEAK(B4)_16-24 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 852405 Mode : 153
	Site : 03CH15-HY Condition : PEAK_BE(B4)_16-24 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 852405 Mode : 153	Left blank

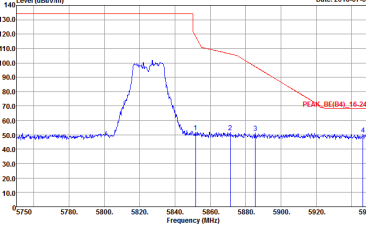
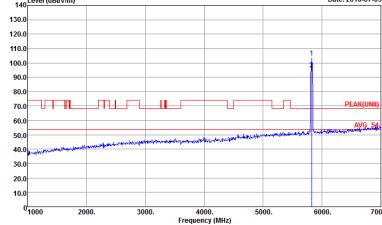


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH157 5785MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE(B4)_16-24 3m 91200_15_1620 VERTICAL Detector : Peak Project : 852405 Mode : 153	 Site : 03CH15-HY Condition : PEAK(UNIT) 3m 91200_15_1620 VERTICAL Detector : Peak Project : 852405 Mode : 153
	 Site : 03CH15-HY Condition : PEAK_BE(B4)_16-24 3m 91200_15_1620 VERTICAL Detector : Peak Project : 852405 Mode : 153	Left blank



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH165 5825MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH15-11Y Condition : PEAK_BE(B4)_16-24 3m 91200_15_1620 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 852405 Mode : 154	 Site : 03CH15-11Y Condition : PEAK(UNIT) 3m 91200_15_1620 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 852405 Mode : 154

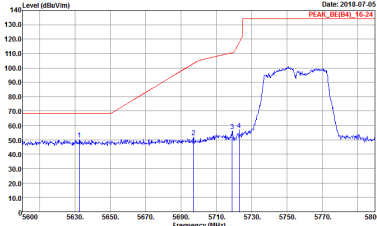
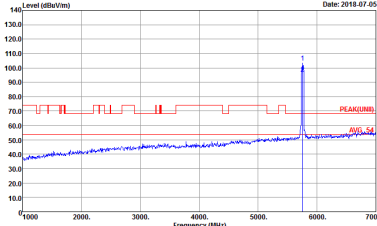
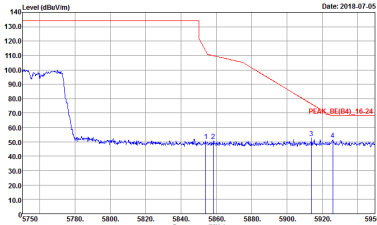


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH165 5825MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH15-11Y Condition : PEAK_BE(B4)_16-24 3m 91200_15_1620 VERTICAL Detector : Peak Project : 852405 Mode : 154	 Site : 03CH15-11Y Condition : PEAK(UNIT) 3m 91200_15_1620 VERTICAL Detector : Peak Project : 852405 Mode : 154

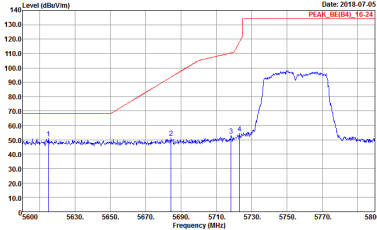
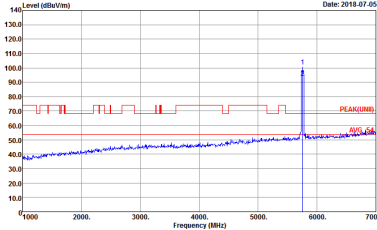
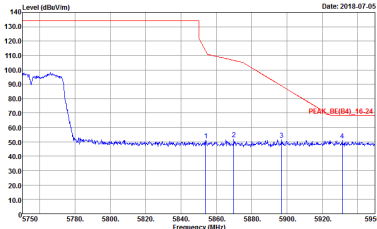


Band 4 5725~5850MHz

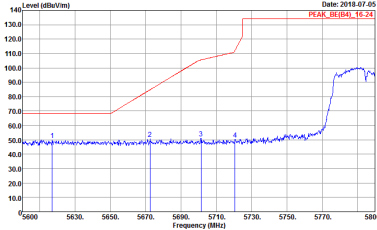
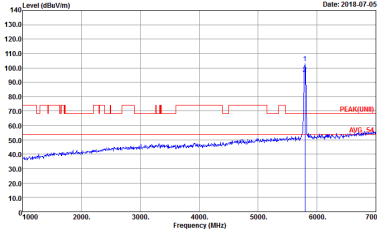
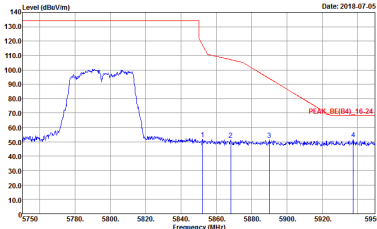
WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT40 CH151 5755MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE(B4)_16-24 3m 91200_15_1620 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 852405 155	 Site : 03CH15-HY Condition : PEAK(UNIT) 3m 91200_15_1620 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 852405 155
Peak	 Site : 03CH15-HY Condition : PEAK_BE(B4)_16-24 3m 91200_15_1620 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 852405 155	Left blank

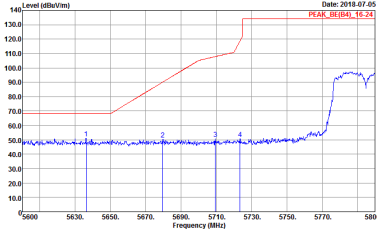
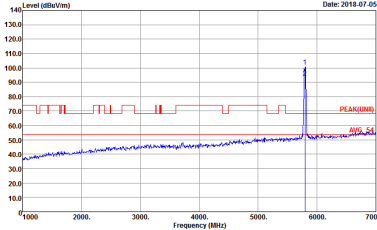
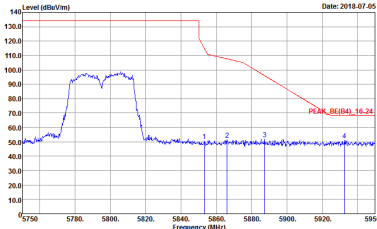


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT40 CH151 5755MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE(B4)_16-24 3m 91200_15_1620 VERTICAL Detector : Peak Project : 852405 Mode : 155	 Site : 03CH15-HY Condition : PEAK(UNIT) 3m 91200_15_1620 VERTICAL Detector : Peak Project : 852405 Mode : 155
Peak	 Site : 03CH15-HY Condition : PEAK_BE(B4)_16-24 3m 91200_15_1620 VERTICAL Detector : Peak Project : 852405 Mode : 155	Left blank



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT40 CH159 5795MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE(B4)_16-24 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 852405 Mode : 156	 Site : 03CH15-HY Condition : PEAK(UNIT) 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 852405 Mode : 156
Peak	 Site : 03CH15-HY Condition : PEAK_BE(B4)_16-24 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 852405 Mode : 156	Left blank

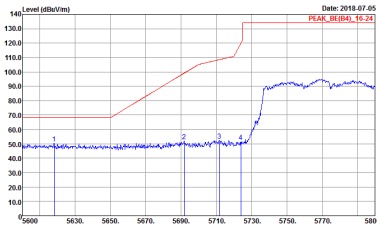
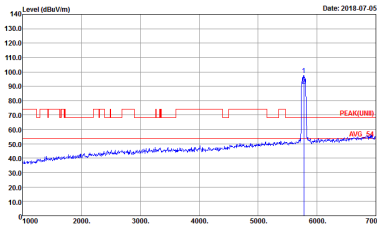
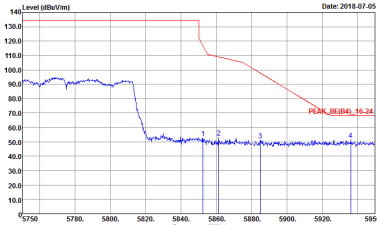


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT40 CH159 5795MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE(B4)_16-24 3m 91200_15_1620 VERTICAL Detector : Peak Project : 852405 Mode : 156	 Site : 03CH15-HY Condition : PEAK(UNIT) 3m 91200_15_1620 VERTICAL Detector : Peak Project : 852405 Mode : 156
	 Site : 03CH15-HY Condition : PEAK_BE(B4)_16-24 3m 91200_15_1620 VERTICAL Detector : Peak Project : 852405 Mode : 156	Left blank

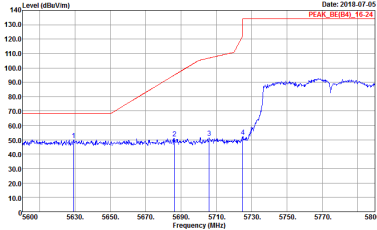
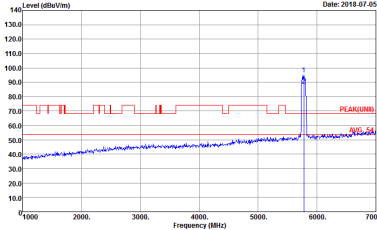
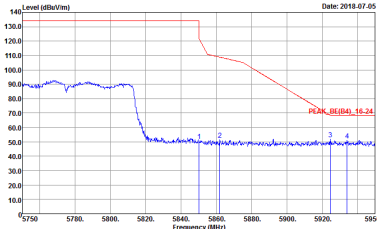


Band 4 5725~5850MHz

WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH155 5775MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE(B4)_16-24 3m 91200_15_1620 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 852405 157	 Site : 03CH15-HY Condition : PEAK(UNIT) 3m 91200_15_1620 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 852405 157
Peak	 Site : 03CH15-HY Condition : PEAK_BE(B4)_16-24 3m 91200_15_1620 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 852405 157	Left blank

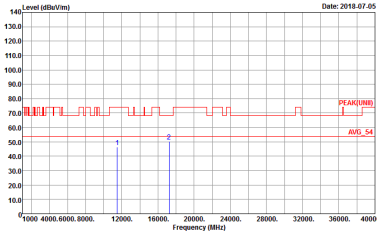
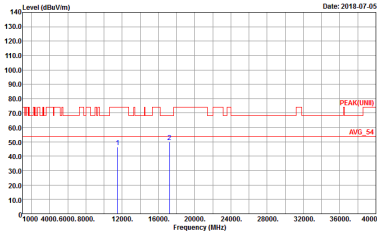


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH155 5775MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE(B4)_16-24 3m 91200_15_1620 VERTICAL Detector : Peak Project : 852405 Mode : 157	 Site : 03CH15-HY Condition : PEAK(UNIT) 3m 91200_15_1620 VERTICAL Detector : Peak Project : 852405 Mode : 157
Peak	 Site : 03CH15-HY Condition : PEAK_BE(B4)_16-24 3m 91200_15_1620 VERTICAL Detector : Peak Project : 852405 Mode : 157	Left blank



Band 4 - 5725~5850MHz

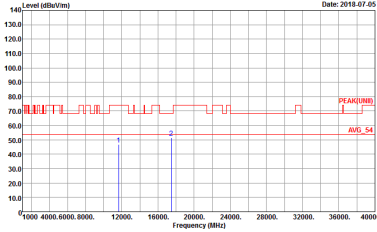
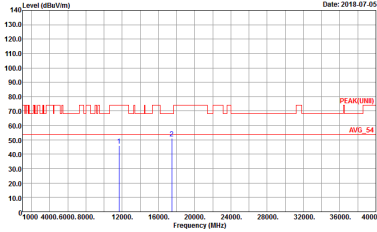
WIFI 802.11a (Harmonic @ 3m)

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH149 5745MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH15-HY Condition : PEAK(UNIT) 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 852405 Mode : 149	 Site : 03CH15-HY Condition : PEAK(UNIT) 3m 91200_15_1620 VERTICAL Detector : Peak Project : 852405 Mode : 149



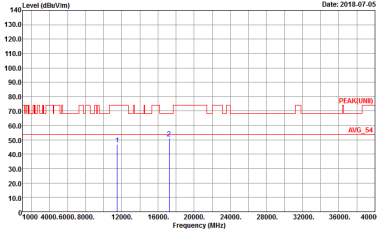
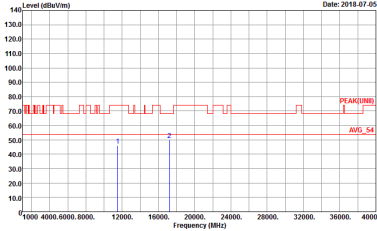
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH157 5785MHz	
1+2	Horizontal	Vertical
Peak Avg.	Site : 03CH15-14Y Condition : PEAK(UNII) 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 852405 Mode : 150	Site : 03CH15-14Y Condition : PEAK(UNII) 3m 91200_15_1620 VERTICAL Detector : Peak Project : 852405 Mode : 150



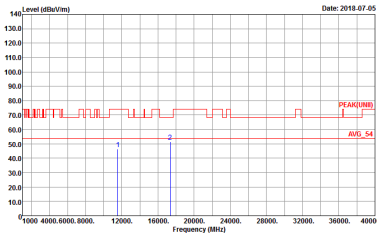
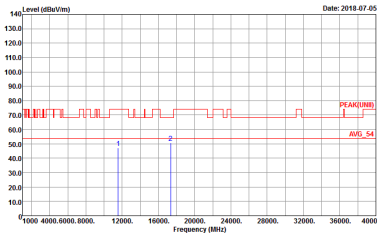
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH165 5825MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH15-11Y Condition : PEAK(UNB) 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 852405 Mode : 151	 Site : 03CH15-11Y Condition : PEAK(UNB) 3m 91200_15_1620 VERTICAL Detector : Peak Project : 852405 Mode : 151



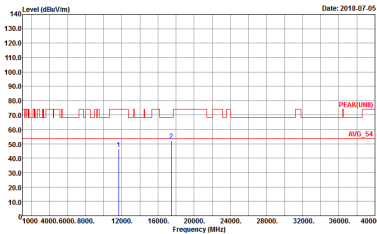
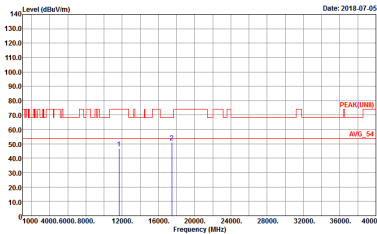
Band 4 5725~5850MHz
WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11n HT20 CH149 5745MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH15-HY Condition : PEAK(UNIT) 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 852405 Mode : 152	 Site : 03CH15-HY Condition : PEAK(UNIT) 3m 91200_15_1620 VERTICAL Detector : Peak Project : 852405 Mode : 152



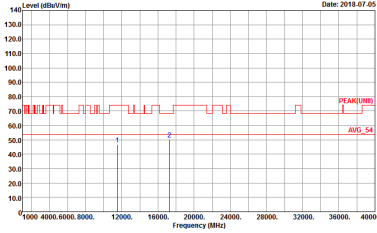
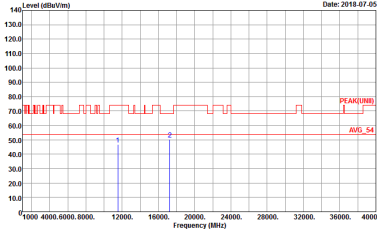
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11n HT20 CH157 5785MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH15-11Y Condition : PEAK(UNII) 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 852405 Mode : 153	 Site : 03CH15-11Y Condition : PEAK(UNII) 3m 91200_15_1620 VERTICAL Detector : Peak Project : 852405 Mode : 153



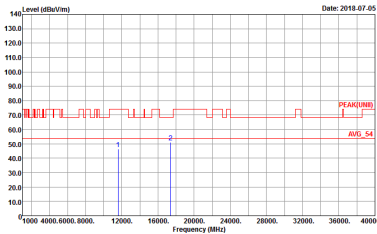
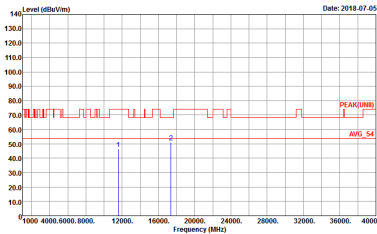
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11n HT20 CH165 5825MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH15-11Y Condition : PEAK(UHB) 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 852405 Mode : 154	 Site : 03CH15-11Y Condition : PEAK(UHB) 3m 91200_15_1620 VERTICAL Detector : Peak Project : 852405 Mode : 154



Band 4 5725~5850MHz
WIFI 802.11n HT40 (Harmonic @ 3m)

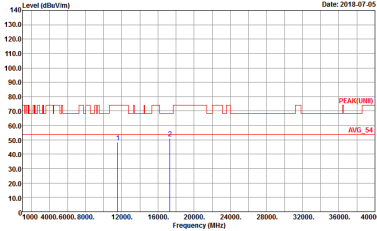
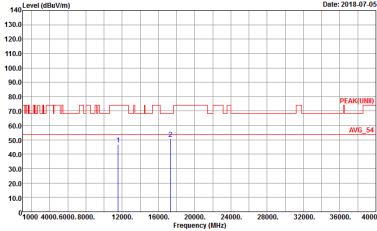
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11n HT40 CH151 5755MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH15-HY Condition : PEAK(UNIT) 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 852405 Mode : 155	 Site : 03CH15-HY Condition : PEAK(UNIT) 3m 91200_15_1620 VERTICAL Detector : Peak Project : 852405 Mode : 155



WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11n HT40 CH159 5795MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH15-11Y Condition : PEAK(UNII) 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 852405 Mode : 156	 Site : 03CH15-11Y Condition : PEAK(UNII) 3m 91200_15_1620 VERTICAL Detector : Peak Project : 852405 Mode : 156



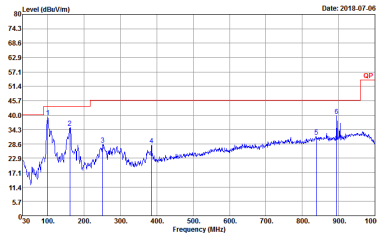
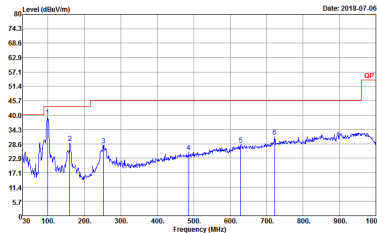
Band 4 5725~5850MHz
WIFI 802.11ac VHT80 (Harmonic @ 3m)

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ac VHT80 CH155 5775MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH15-HY Condition : PEAK(UNIT) 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 852405 Mode : 157	 Site : 03CH15-HY Condition : PEAK(UNIT) 3m 91200_15_1620 VERTICAL Detector : Peak Project : 852405 Mode : 157



Emission below 1GHz

5GHz WIFI 802.11n HT20 (LF)

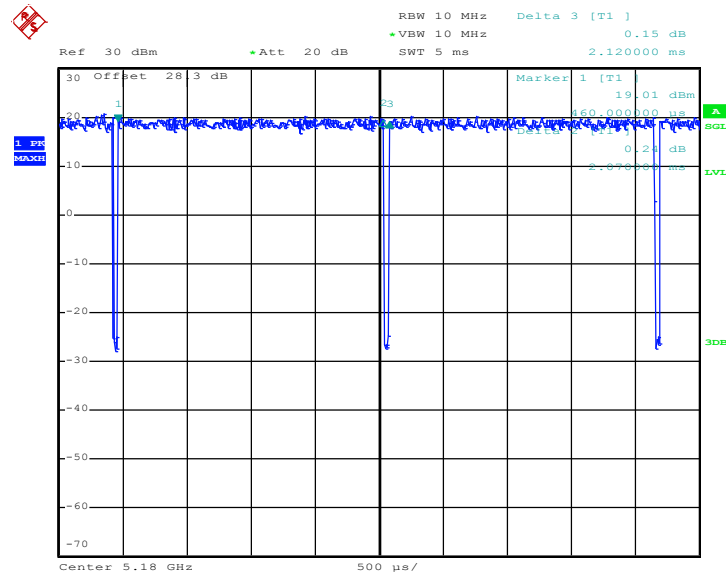
WIFI	5GHz 5725~5850MHz	
ANT	802.11n HT20 LF	
1+2	Horizontal	Vertical
QP / Peak	 Site : 03CH15-HY Condition : QP 3m B1L06_15_41912 HORIZONTAL Detector : Peak Project : 852405 Mode : 158	 Site : 03CH15-HY Condition : QP 3m B1L06_15_41912 VERTICAL Detector : Peak Project : 852405 Mode : 158

Appendix E. Duty Cycle Plots

Antenna	Band	Duty Cycle (%)	T(us)	1/T(kHz)	VBW Setting	Duty Factor (dB)
1	802.11a	97.64	2070.00	0.48	1kHz	0.10
2	802.11a	97.64	2070.00	0.48	1kHz	0.10
1+2	802.11a for Ant. 1	97.14	2040.00	0.49	1kHz	0.13
1+2	802.11a for Ant. 2	97.14	2040.00	0.49	1kHz	0.13
1	5GHz 802.11n HT20	97.56	1920.00	0.52	1kHz	0.11
2	5GHz 802.11n HT20	97.56	1920.00	0.52	1kHz	0.11
1+2	5GHz 802.11n HT20 for Ant. 1	97.56	1920.00	0.52	1kHz	0.11
1+2	5GHz 802.11n HT20 for Ant. 2	97.56	1920.00	0.52	1kHz	0.11
1	5GHz 802.11n HT40	94.97	945.00	1.06	3kHz	0.22
2	5GHz 802.11n HT40	94.95	940.00	1.06	3kHz	0.23
1+2	5GHz 802.11n HT40 for Ant. 1	95.96	950.00	1.05	3kHz	0.18
1+2	5GHz 802.11n HT40 for Ant. 2	95.96	950.00	1.05	3kHz	0.18
1	5GHz 802.11ac VHT20	97.56	1920.00	0.52	1kHz	0.11
2	5GHz 802.11ac VHT20	97.58	1936.00	0.52	1kHz	0.11
1+2	5GHz 802.11ac VHT20 for Ant. 1	96.75	1904.00	0.53	1kHz	0.14
1+2	5GHz 802.11ac VHT20 for Ant. 2	97.58	1936.00	0.52	1kHz	0.11
1	5GHz 802.11ac VHT40	95.00	950.00	1.05	3kHz	0.22
2	5GHz 802.11ac VHT40	95.00	950.00	1.05	3kHz	0.22
1+2	5GHz 802.11ac VHT40 for Ant. 1	95.96	950.00	1.05	3kHz	0.18
1+2	5GHz 802.11ac VHT40 for Ant. 2	95.96	950.00	1.05	3kHz	0.18
1	5GHz 802.11ac VHT80	94.87	740.00	1.35	3kHz	0.23
2	5GHz 802.11ac VHT80	93.59	730.00	1.37	3kHz	0.29
1+2	5GHz 802.11ac VHT80 for Ant. 1	94.87	740.00	1.35	3kHz	0.23
1+2	5GHz 802.11ac VHT80 for Ant. 2	94.87	740.00	1.35	3kHz	0.23

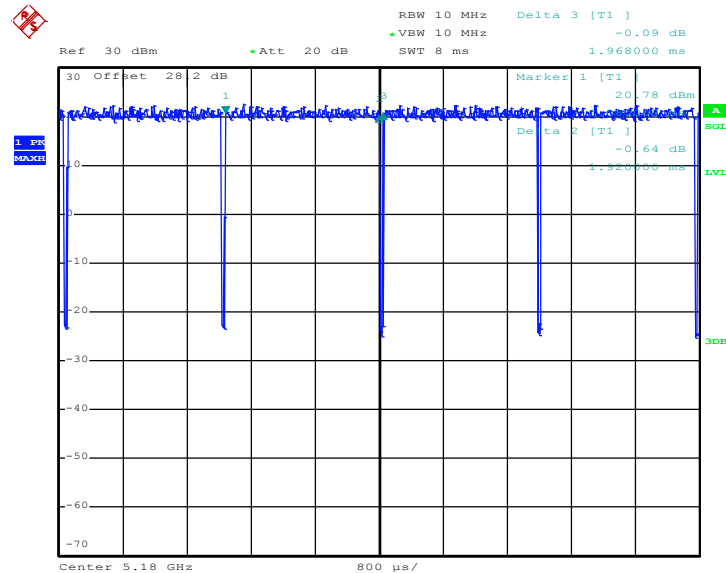
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802.11a



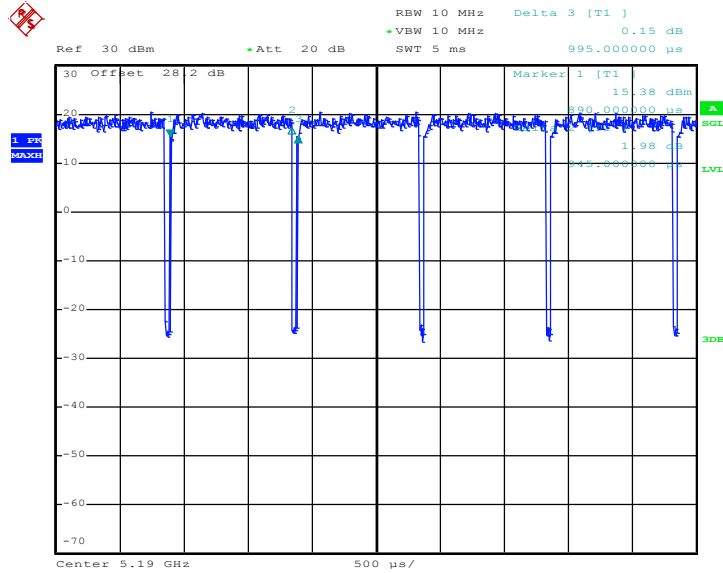
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802.11n HT20



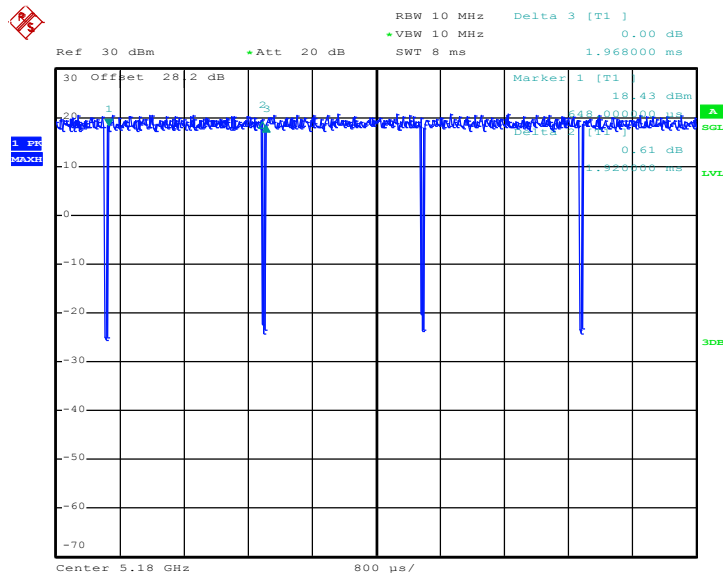
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802.11n HT40



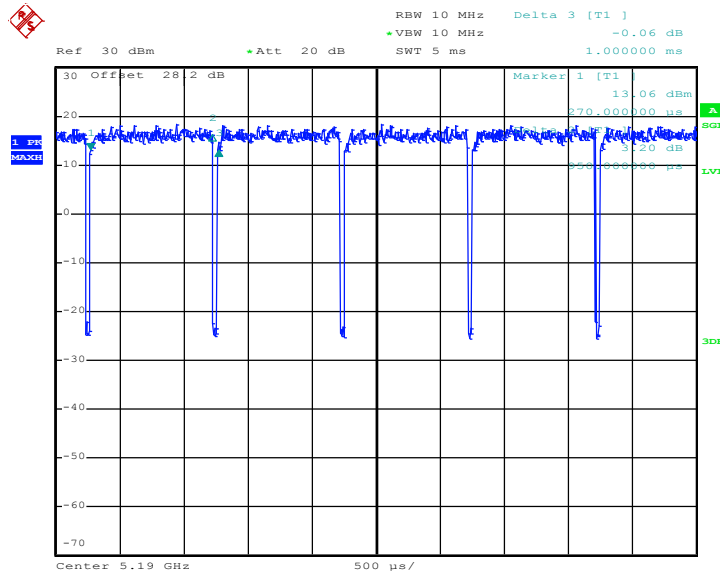
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802.11ac VHT20



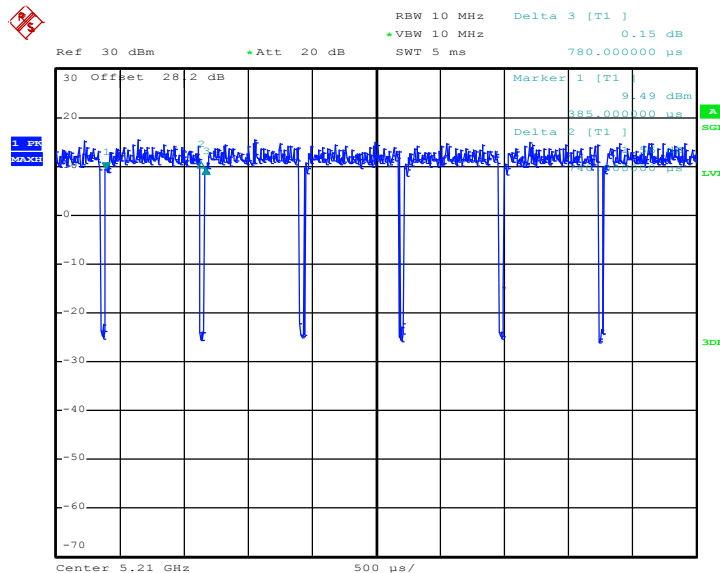
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802.11ac VHT40



Date: 19.JUN.2018 03:49:21

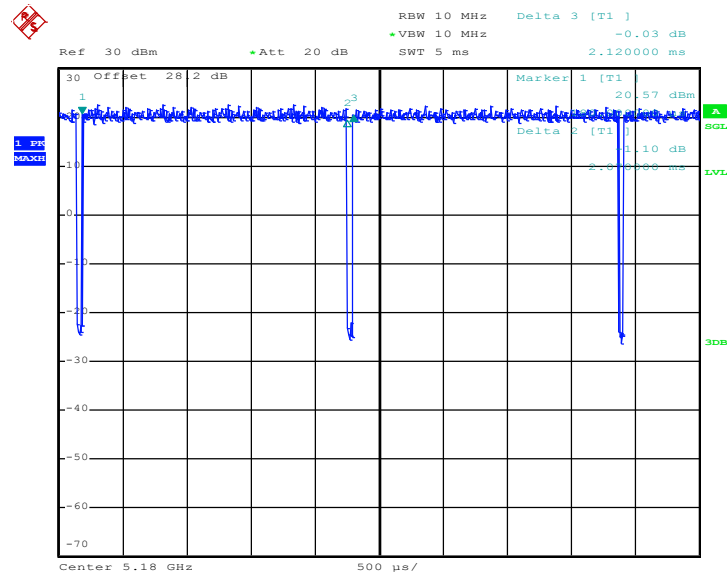
802.11ac VHT80



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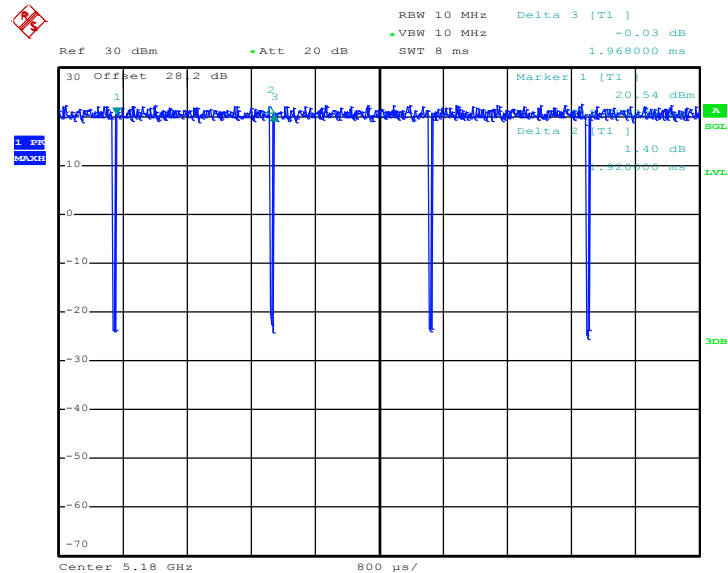
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802.11a



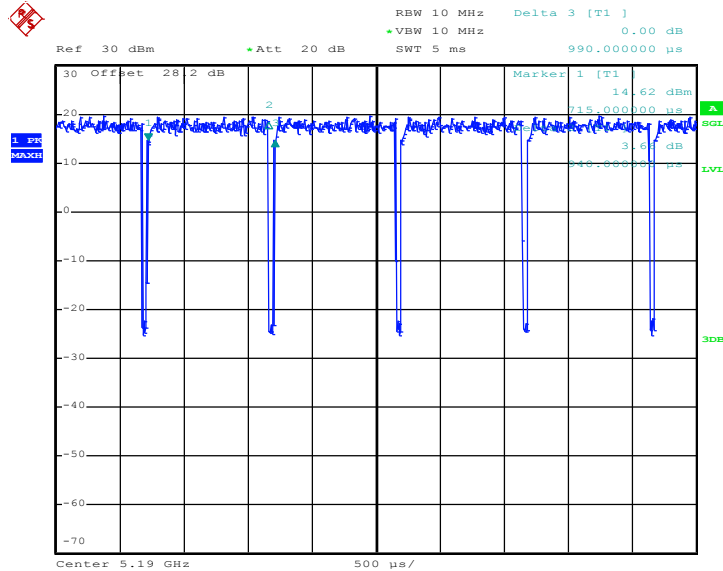
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802.11n HT20



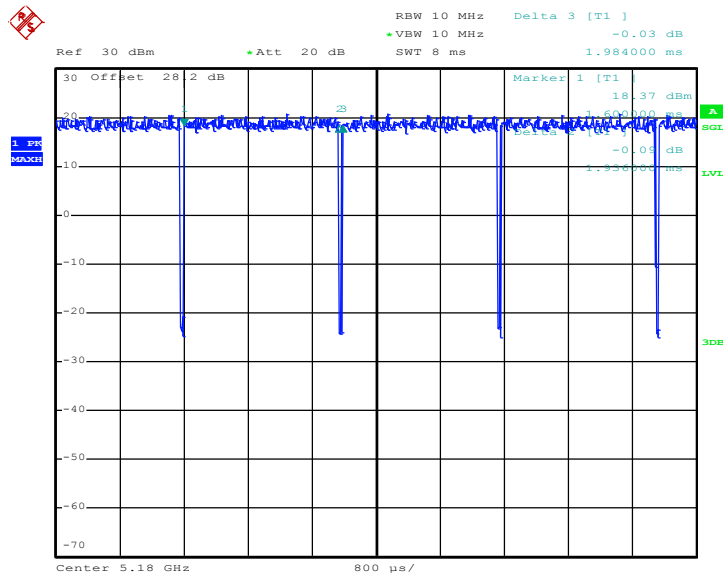
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802.11n HT40



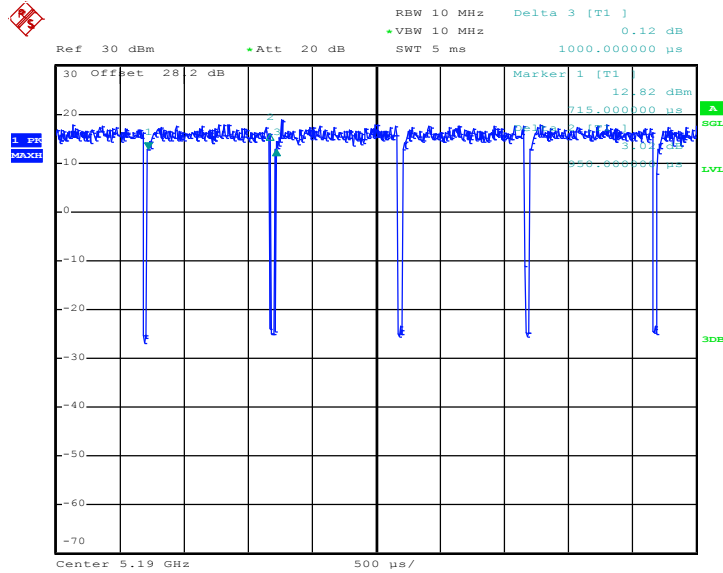
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802.11ac VHT20



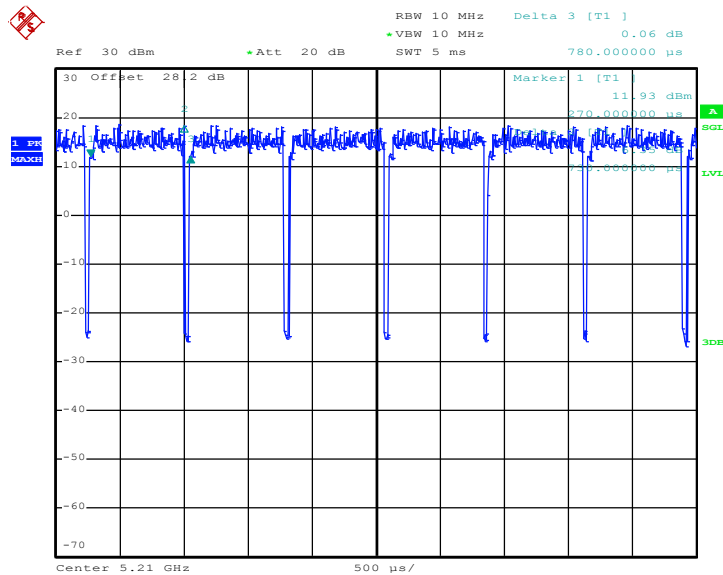
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802.11ac VHT40



Date: 19.JUN.2018 03:50:16

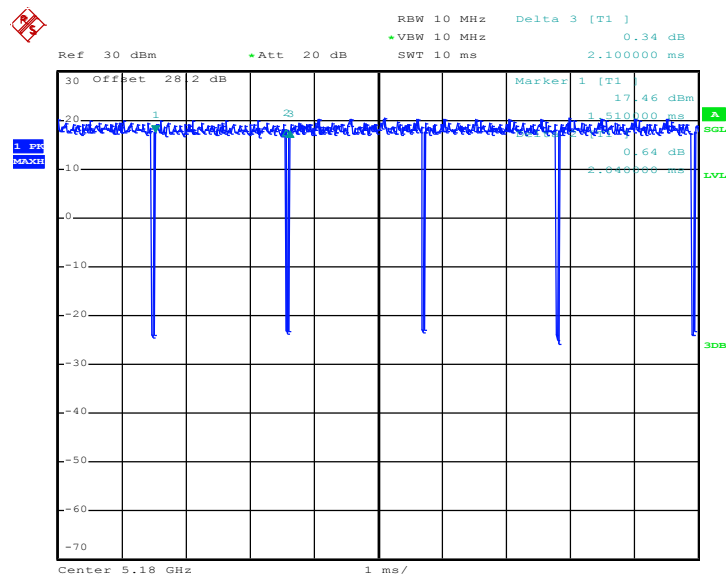
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Date: 19.JUN.2018 03:01:49

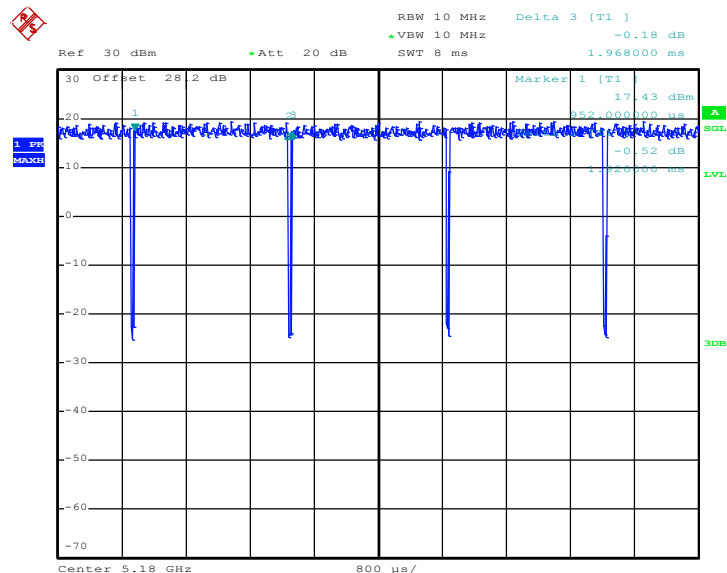
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802.11a



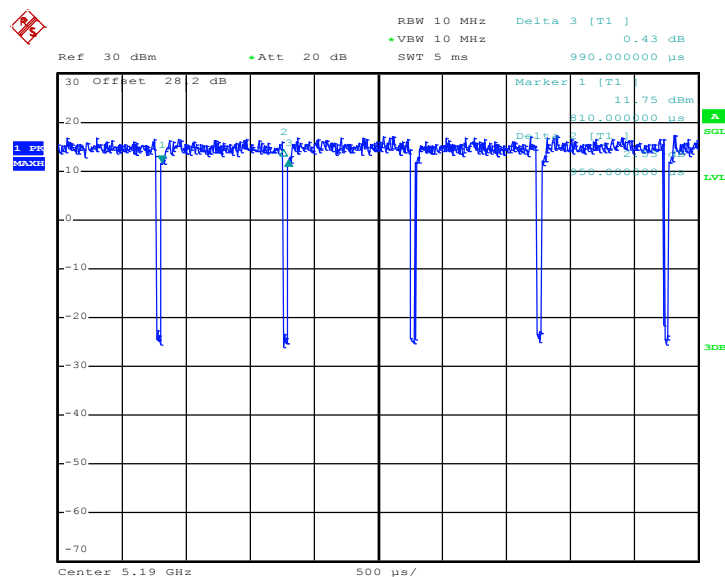
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802.11n HT20



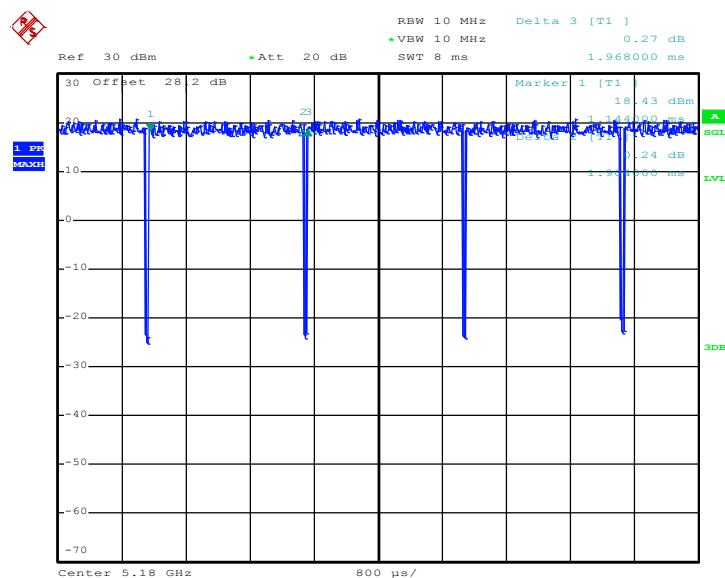
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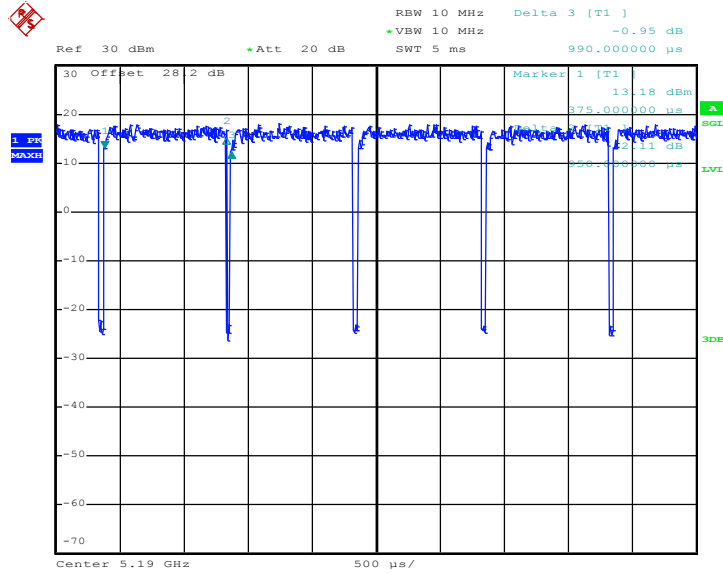
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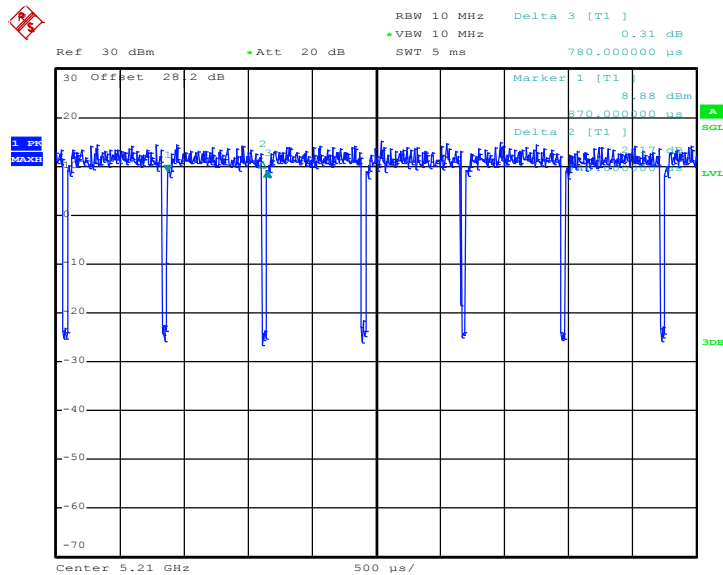
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802.11ac VHT40



Date: 19.JUN.2018 03:51:20

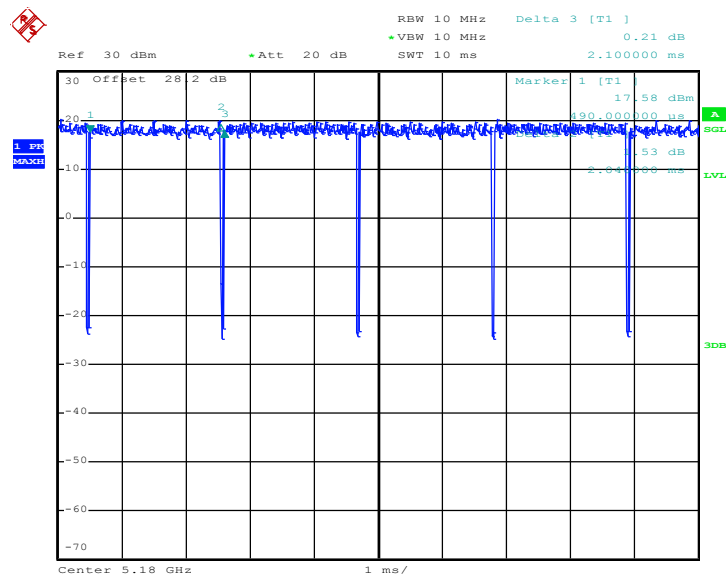
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Date: 19.JUN.2018 03:06:43

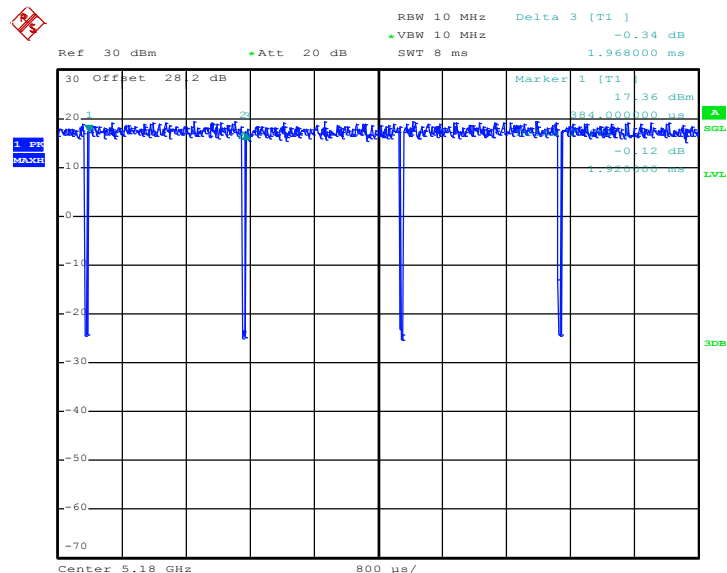
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Date: 19.JUN.2018 01:10:21

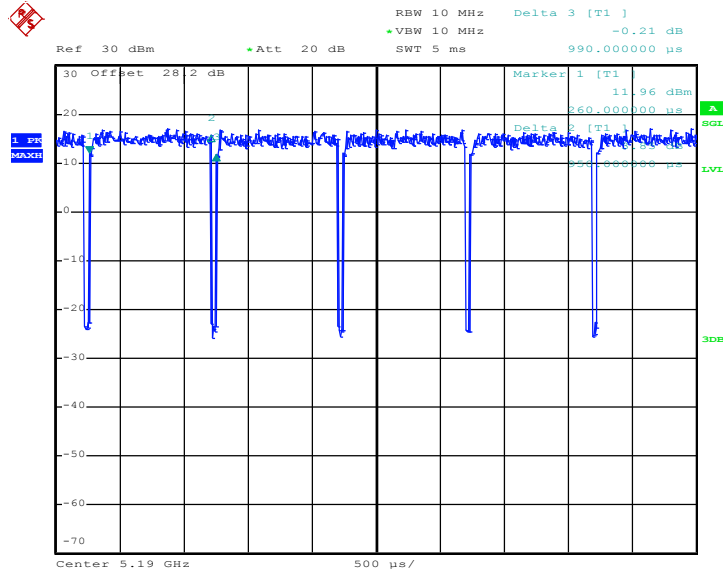
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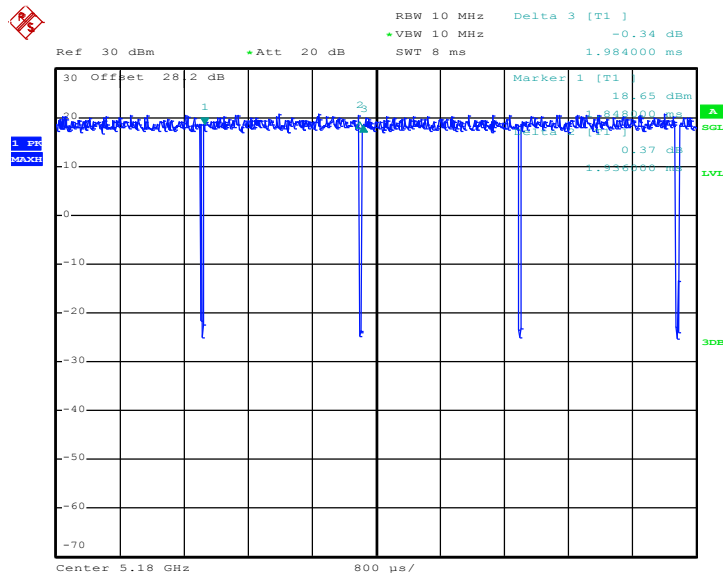


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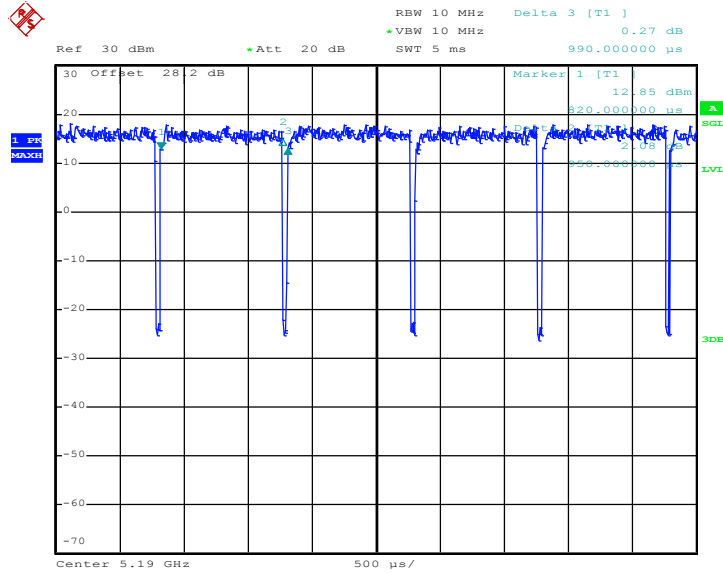
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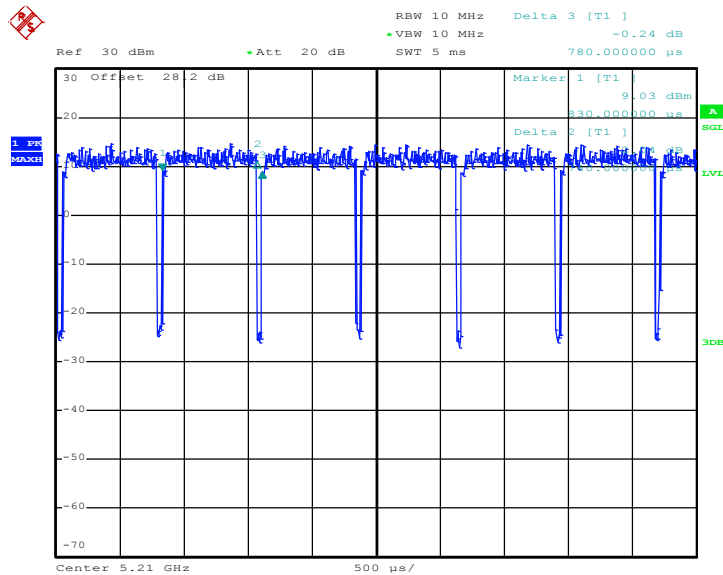
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Date: 19.JUN.2018 03:52:01

802.11ac VHT80



Date: 19.JUN.2018 03:07:14