



FCC RADIO TEST REPORT

FCC ID : PPD-QCNFA344AH
Equipment : 802.11a/b/g/n/ac + BT 4.1 M.2 2230 Type Card
Brand Name : Qualcomm Atheros
Model name : QCNFA344A
Applicant : Qualcomm Atheros, Inc.
1700 Technology Drive, San Jose, CA 95110
Manufacturer : Qualcomm Atheros, Inc.
1700 Technology Drive, San Jose, CA 95110
Standard : FCC Part 15 Subpart E §15.407

The product was received on Mar. 28, 2018 and testing was started from Mar. 28, 2018 and completed on May 04, 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 partial 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.)



Table of Contents

History of this test report.....	3
Summary of Test Result.....	4
1 General Description	5
1.1 Product Feature of Equipment Under Test.....	5
1.2 Modification of EUT	5
1.3 Testing Location	6
1.4 Applicable Standards.....	6
2 Test Configuration of Equipment Under Test	7
2.1 Carrier Frequency and Channel	7
2.2 Test Mode.....	7
2.3 Connection Diagram of Test System.....	8
2.4 Support Unit used in test configuration and system	8
2.5 EUT Operation Test Setup	8
3 Test Result	9
3.1 Maximum Conducted Output Power Measurement	9
3.2 Unwanted Emissions Measurement	10
4 List of Measuring Equipment.....	15
5 Uncertainty of Evaluation	17
Appendix A. Conducted Test Results	
Appendix B. Radiated Spurious Emission	
Appendix C. Radiated Spurious Emission Plots	
Appendix D. Duty Cycle Plots	
Appendix E. Setup Photographs	



History of this test report

Report No.	Version	Description	Issued Date
FR773112-03E	01	Initial issue of report	Jun. 13, 2018



Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.1	15.407 (a)	Maximum Conducted Output Power	Pass	-
3.2	15.407(b)	Unwanted Emissions	Pass	Under limit 3.02 dB at 11490.000 MHz
Remark: The reported TX power in EMC report is per actual shipping power setting and measured in this unit. This has considered the actual shipping power during the measurement.				

Reviewed by: Joseph Lin

Report Producer: Polly Tsai

1 General Description

1.1 Product Feature of Equipment Under Test

Bluetooth, Wi-Fi 2.4GHz 802.11b/g/n/ac, and Wi-Fi 5GHz 802.11a/n/ac

Product Specification subjective to this standard	
Sample 1	EUT with Portable Computer (HONGBO Antenna)
Sample 2	EUT with Portable Computer (ACON Antenna)

The product was installed into Portable Computer (Brand Name: DELL, Model Name: P87G, P87G001) during test, and the host information was recorded in the following table.

Antenna Information					
Manufacturer	HONGBO		Manufacturer	ACON	
Model Name	260-26160		Model Name	ANF6Y-200018	
Ant. Type	PIFA		Ant. Type	PIFA	
Peak Gain (dBi)	2.4GHz WLAN	Main:-0.59 Aux:-1.18	Peak Gain (dBi)	2.4GHz WLAN	Main:-1.38 Aux:-2.70
	5GHz WLAN	Main:-1.07 Aux:-1.64		5GHz WLAN	Main:-1.14 Aux:-1.73

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

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. 03CH12-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: All test items were verified and recorded according to the standards and without any deviation during the test.

2 Test Configuration of Equipment Under Test

The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: radiation emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower).

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.

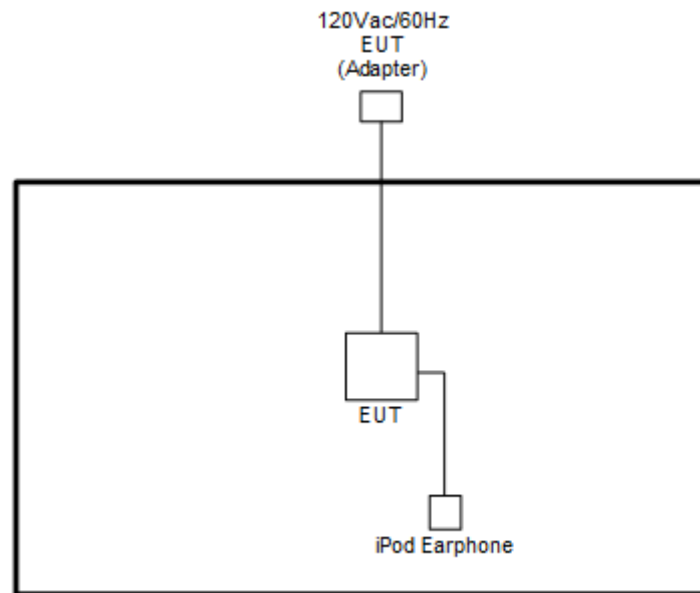
MIMO Mode

Modulation	Data Rate
802.11a	6 Mbps
802.11n HT20	MCS0
802.11n HT40	MCS0
802.11ac VHT20	MCS0
802.11ac VHT40	MCS0
802.11ac VHT80	MCS0

Ch. #		Band IV : 5725-5850 MHz					
		802.11a	802.11n HT20	802.11n HT40	802.11ac VHT20	802.11ac VHT40	802.11ac VHT80
L	Low	149	149	151	149	151	-
M	Middle	157	157	-	157	-	155
H	High	165	165	159	165	159	-

Remark: The Radiated Spurious Emission test has only performed the test cases which chosen from module supplier.

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.	iPod Earphone	Apple	N/A	Verification	Unshielded, 1.0m	N/A

2.5 EUT Operation Test Setup

The RF test items, utility "QRCT" was installed in Portable Computer 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.

3 Test Result

3.1 Maximum Conducted Output Power Measurement

3.1.1 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.

3.1.2 Measuring Instruments

See list of measuring equipment of this test report.

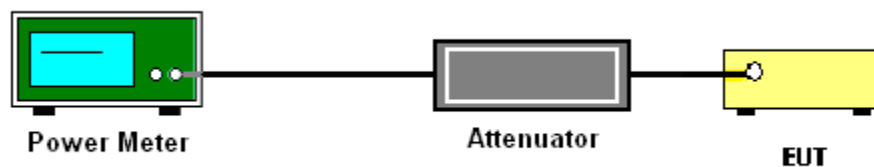
3.1.3 Test Procedures

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

3.1.4 Test Setup



3.1.5 Test Result of Maximum Conducted Output Power

Please refer to Appendix A.

3.2 Unwanted Emissions Measurement

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

3.2.1 Limit of Unwanted Emissions

- (1) For transmitters operating in the 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).

3.2.2 Measuring Instruments

See list of measuring equipment of this test report.

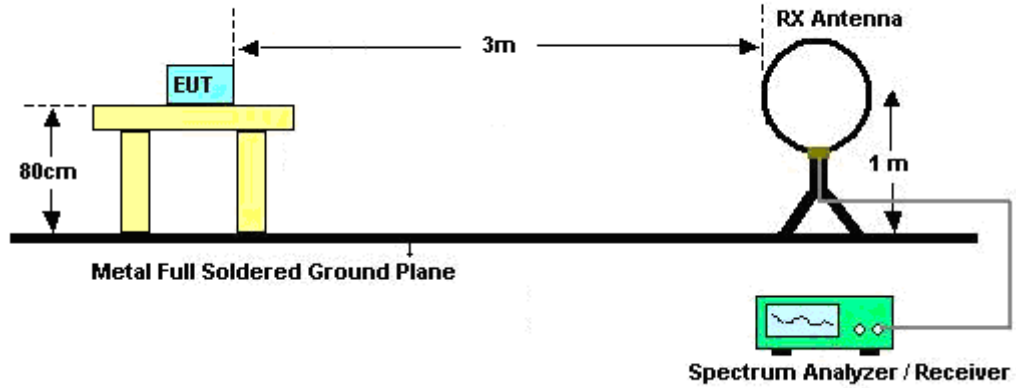


3.2.3 Test Procedures

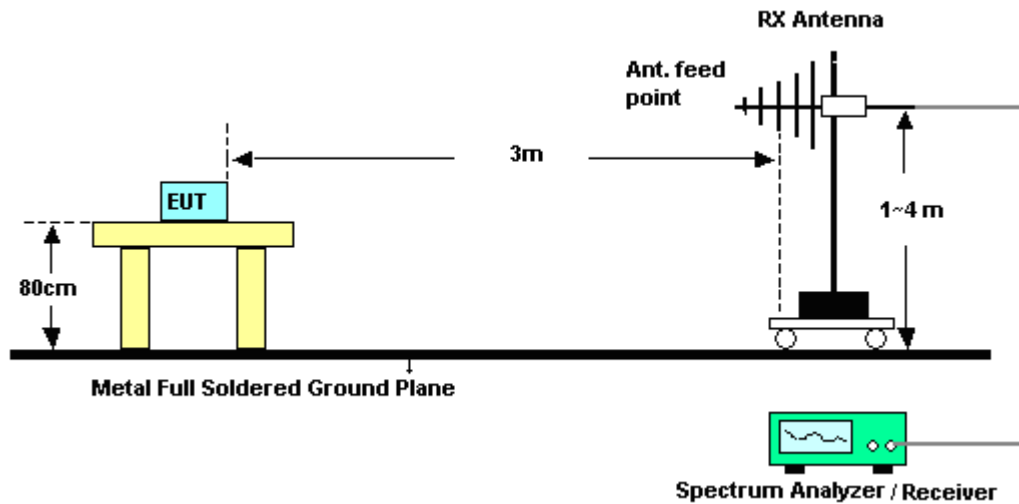
1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
Section G) Unwanted emissions measurement.
(1) Procedure for Unwanted Emissions Measurements Below 1000MHz
 - RBW = 120 kHz
 - VBW = 300 kHz
 - Detector = Peak
 - Trace mode = max hold
(2) Procedure for Peak Unwanted Emissions Measurements Above 1000 MHz
 - RBW = 1 MHz
 - VBW $\geq$ 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.

3.2.4 Test Setup

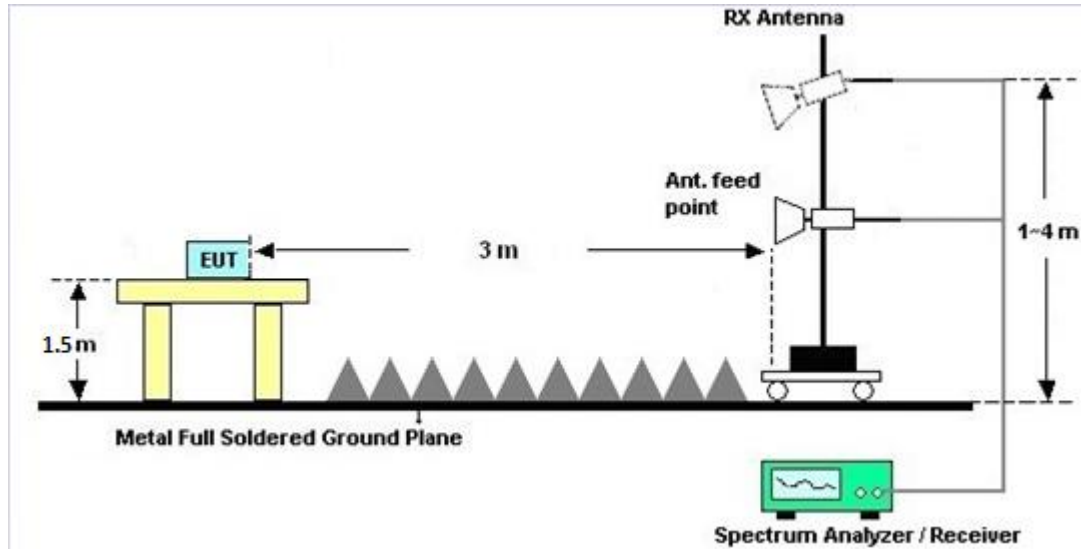
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



3.2.5 Test Results of Radiated 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.

3.2.6 Test Result of Radiated Band Edges

Please refer to Appendix B and C.

3.2.7 Duty Cycle

Please refer to Appendix D.

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

Please refer to Appendix B and C.



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	Mar. 28, 2018~ May 04, 2018	Sep. 06, 2018	Conducted (TH05-HY)
Power Sensor	Anritsu	MA2411B	1207349	300MHz~40GHz z	Sep. 07, 2017	Mar. 28, 2018~ May 04, 2018	Sep. 06, 2018	Conducted (TH05-HY)
Spectrum Analyzer	Rohde & Schwarz	FSP40	100055	9kHz~40GHz	Jun. 20, 2017	Mar. 28, 2018~ May 04, 2018	Jun. 19, 2018	Conducted (TH05-HY)
Switch Box & RF Cable	Burgeon	ETF-058	EC130048 4	N/A	Mar. 01, 2018	Mar. 28, 2018~ May 04, 2018	Feb. 28, 2019	Conducted (TH05-HY)
Amplifier	MITEQ	TTA1840-35-HG	1871923	18GHz~40GHz, VSWR : 2.5:1 max	Jul. 18, 2017	Apr. 03, 2018~ Apr. 28, 2018	Jul. 17, 2018	Radiation (03CH12-HY)
Spectrum Analyzer	Keysight	N9010A	MY542004 85	10Hz ~ 44GHz	Oct. 31, 2017	Apr. 03, 2018~ Apr. 28, 2018	Oct. 30, 2018	Radiation (03CH12-HY)
Bilog Antenna	TESEQ	CBL 6111D&N-6-0 6	35414&AT- N0602	30MHz~1GHz	Oct. 14, 2017	Apr. 03, 2018~ Apr. 28, 2018	Oct. 13, 2018	Radiation (03CH12-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100488	9 kHz~30 MHz	Nov. 23, 2017	Apr. 03, 2018~ Apr. 28, 2018	Nov. 22, 2018	Radiation (03CH12-HY)
EMI Test Receiver	Rohde & Schwarz	ESU26	100390	20Hz~26.5GHz	Dec. 25, 2017	Apr. 03, 2018~ Apr. 28, 2018	Dec. 24, 2018	Radiation (03CH12-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120D	9120D-132 8	1GHz ~ 18GHz	Oct. 20, 2017	Apr. 03, 2018~ Apr. 28, 2018	Oct. 19, 2018	Radiation (03CH12-HY)
Amplifier	Sonoma-Instrument	310 N	187282	9KHz~1GHz	Jan. 19, 2018	Apr. 03, 2018~ Apr. 28, 2018	Jan. 18, 2020	Radiation (03CH12-HY)
Preamplifier	Keysight	83017A	MY532701 48	1GHz~26.5GHz	Jan. 15, 2018	Apr. 03, 2018~ Apr. 28, 2018	Jan. 14, 2019	Radiation (03CH12-HY)
Filter	Wainwright	WLKS1200-1 2SS	SN2	1.2G Low Pass	Jul. 17, 2017	Apr. 03, 2018~ Apr. 28, 2018	Jul. 16, 2018	Radiation (03CH12-HY)
Filter	Woken	WHKX8-5272. 5-6750-18000 -40ST	SN2	6.75G Highpass	Jul. 17, 2017	Apr. 03, 2018~ Apr. 28, 2018	Jul. 16, 2018	Radiation (03CH12-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1m~4m	N/A	Apr. 03, 2018~ Apr. 28, 2018	N/A	Radiation (03CH12-HY)
Turn Table	EMEC	TT2000	N/A	0~360 Degree	N/A	Apr. 03, 2018~ Apr. 28, 2018	N/A	Radiation (03CH12-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170 576	18GHz ~ 40GHz	Apr. 27, 2017	Apr. 03, 2018~ Apr. 25, 2018	Apr. 26, 2018	Radiation (03CH12-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170 584	18GHz ~ 40GHz	Nov. 27, 2017	Apr. 26, 2018~ Apr. 28, 2018	Nov. 26, 2018	Radiation (03CH12-HY)
Preamplifier	MITEQ	AMF-7D-0010 1800-30-10P	1590074	1GHz~18GHz	May 22, 2017	Apr. 03, 2018~ Apr. 28, 2018	May 21, 2018	Radiation (03CH12-HY)
Software	Audix	E3 6.2009-8-24	RK-00098 9	N/A	N/A	Apr. 03, 2018~ Apr. 28, 2018	N/A	Radiation (03CH12-HY)



Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
RF Cable	HUBER + SUHNER	SUCOFLEX 126E	0058/126E	30M-18G	Mar. 14, 2018	Apr. 03, 2018~ Apr. 28, 2018	Mar. 13, 2019	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY15539/4	30M-18G	Mar. 14, 2018	Apr. 03, 2018~ Apr. 28, 2018	Mar. 13, 2019	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY36979/4	30M-18G	Mar. 14, 2018	Apr. 03, 2018~ Apr. 28, 2018	Mar. 13, 2019	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	505134/2	30M~40GHz	Oct. 17, 2017	Apr. 03, 2018~ Apr. 28, 2018	Oct. 16, 2018	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	800740/2	30M~40GHz	Oct. 17, 2017	Apr. 03, 2018~ Apr. 28, 2018	Oct. 16, 2018	Radiation (03CH12-HY)

5 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.1
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Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.2
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Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.7
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Appendix A. Test Result of Conducted Test Items

Test Engineer:	Lena Lo/Derek Hsu	Temperature:	21~25	°C
Test Date:	2018/3/28~2018/5/4	Relative Humidity:	51~54	%

TEST RESULTS DATA
Average Power Table

Band IV													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		-	Pass/Fail
					Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2		
11a	6Mbps	2	149	5745	0.24	0.24	12.32	11.51	14.95	30.00		Pass	
11a	6Mbps	2	157	5785	0.24	0.24	10.24	9.25	12.79	30.00		Pass	
11a	6Mbps	2	165	5825	0.24	0.24	12.60	12.07	15.36	30.00		Pass	
HT20	MCS0	2	149	5745	0.24	0.24	12.56	12.10	15.35	30.00		Pass	
HT20	MCS0	2	157	5785	0.24	0.24	11.08	10.10	13.63	30.00		Pass	
HT20	MCS0	2	165	5825	0.24	0.24	12.78	12.29	15.55	30.00		Pass	
HT40	MCS0	2	151	5755	0.52	0.48	9.09	8.80	11.95	30.00		Pass	
HT40	MCS0	2	159	5795	0.52	0.48	12.34	12.15	15.25	30.00		Pass	
VHT20	MCS0	2	149	5745	0.24	0.26	11.81	11.32	14.58	30.00		Pass	
VHT20	MCS0	2	157	5785	0.24	0.26	10.72	9.77	13.28	30.00		Pass	
VHT20	MCS0	2	165	5825	0.24	0.26	12.80	12.33	15.58	30.00		Pass	
VHT40	MCS0	2	151	5755	0.47	0.48	9.46	9.26	12.37	30.00		Pass	
VHT40	MCS0	2	159	5795	0.47	0.48	12.35	12.17	15.27	30.00		Pass	
VHT80	MCS0	2	155	5775	0.51	0.52	7.52	7.66	10.60	30.00		Pass	



Appendix B. Radiated Spurious Emission

Test Engineer :	Watt Tseng, Karl Hou, and Nick Yu	Temperature :	21~23°C
		Relative Humidity :	59~62%

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		5645.2	50.68	-17.52	68.2	43.36	32.19	6.35	31.22	398	171	P	H
		5698.8	65.6	-38.72	104.32	58.22	32.27	6.36	31.25	398	171	P	H
		5717.4	73.87	-36.2	110.07	66.48	32.29	6.36	31.26	398	171	P	H
		5723.2	76.84	-41.26	118.1	69.42	32.31	6.37	31.26	398	171	P	H
	*	5745	113.51	-	-	106.07	32.34	6.37	31.27	398	171	P	H
	*	5745	102.75	-	-	95.31	32.34	6.37	31.27	398	171	A	H
													H
													H
		5644.6	49.08	-19.12	68.2	41.76	32.19	6.35	31.22	253	139	P	V
		5697.6	59.45	-43.98	103.43	52.07	32.27	6.36	31.25	253	139	P	V
		5715.2	71.1	-38.36	109.46	63.71	32.29	6.36	31.26	253	139	P	V
		5723.8	75.27	-44.19	119.46	67.85	32.31	6.37	31.26	253	139	P	V
	*	5745	112.01	-	-	104.57	32.34	6.37	31.27	253	139	P	V
	*	5745	101.21	-	-	93.77	32.34	6.37	31.27	253	139	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		5649.2	50.47	-17.73	68.2	43.15	32.19	6.35	31.22	400	173	P	H
		5688.4	51.03	-45.61	96.64	43.65	32.27	6.36	31.25	400	173	P	H
		5715.4	51.16	-58.35	109.51	43.77	32.29	6.36	31.26	400	173	P	H
		5722.6	51.48	-65.25	116.73	44.06	32.31	6.37	31.26	400	173	P	H
	*	5785	108.09	-	-	100.61	32.39	6.38	31.29	400	173	P	H
	*	5785	97.33	-	-	89.85	32.39	6.38	31.29	400	173	A	H
		5851.8	50.63	-67.47	118.1	43.05	32.48	6.42	31.32	400	173	P	H
		5857	49.77	-60.47	110.24	42.16	32.51	6.42	31.32	400	173	P	H
		5921.2	49.53	-21.47	71	41.83	32.58	6.47	31.35	400	173	P	H
		5940.6	50.16	-18.04	68.2	42.42	32.63	6.48	31.37	400	173	P	H
													H
													H
		5642	50.04	-18.16	68.2	42.72	32.19	6.35	31.22	281	190	P	V
		5692	49.41	-49.89	99.3	42.03	32.27	6.36	31.25	281	190	P	V
		5716	50.47	-59.21	109.68	43.08	32.29	6.36	31.26	281	190	P	V
		5723.2	50.46	-67.64	118.1	43.04	32.31	6.37	31.26	281	190	P	V
	*	5785	106.23	-	-	98.75	32.39	6.38	31.29	281	190	P	V
	*	5785	95.88	-	-	88.4	32.39	6.38	31.29	281	190	A	V
		5852.8	49.27	-66.55	115.82	41.69	32.48	6.42	31.32	281	190	P	V
		5868.6	49.28	-57.71	106.99	41.67	32.51	6.43	31.33	281	190	P	V
		5883.8	49.26	-49.41	98.67	41.63	32.53	6.44	31.34	281	190	P	V
		5926.4	49.21	-18.99	68.2	41.49	32.6	6.47	31.35	281	190	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	111.22	-	-	103.68	32.46	6.39	31.31	399	171	P	H
	*	5825	100.48	-	-	92.94	32.46	6.39	31.31	399	171	A	H
		5850.6	66.39	-54.44	120.83	58.81	32.48	6.42	31.32	399	171	P	H
		5856.2	65.3	-45.16	110.46	57.69	32.51	6.42	31.32	399	171	P	H
		5880.8	54.7	-46.19	100.89	47.06	32.53	6.44	31.33	399	171	P	H
		5947.2	49.32	-18.88	68.2	41.58	32.63	6.48	31.37	399	171	P	H
													H
													H
	*	5825	109.95	-	-	102.41	32.46	6.39	31.31	244	139	P	V
	*	5825	99.29	-	-	91.75	32.46	6.39	31.31	244	139	A	V
		5852	63.57	-54.07	117.64	55.99	32.48	6.42	31.32	244	139	P	V
		5858	65.66	-44.3	109.96	58.06	32.51	6.42	31.33	244	139	P	V
		5875.8	53.87	-50.74	104.61	46.24	32.53	6.43	31.33	244	139	P	V
		5936	48.82	-19.38	68.2	41.11	32.6	6.48	31.37	244	139	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+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	62.42	-11.58	74	68.39	40.11	10.33	56.41	300	187	P	H
		11490	49.91	-4.09	54	55.88	40.11	10.33	56.41	300	187	A	H
		17235	47.24	-20.96	68.2	49.24	41.54	12.73	56.27	400	0	P	H
													H
		11490	59.82	-14.18	74	65.79	40.11	10.33	56.41	315	93	P	V
		11490	47.49	-6.51	54	53.46	40.11	10.33	56.41	315	93	A	V
		17235	47.82	-20.38	68.2	49.82	41.54	12.73	56.27	100	0	P	V
													V
802.11a CH 157 5785MHz		11570	64.41	-9.59	74	70.51	39.93	10.37	56.4	309	185	P	H
		11570	50.86	-3.11	54	56.96	39.93	10.37	56.4	309	185	A	H
		17355	48.01	-20.19	68.2	49.69	41.96	12.82	56.46	100	0	P	H
													H
		11570	61.27	-12.73	74	67.37	39.93	10.37	56.4	297	92	P	V
		11570	48.82	-5.18	54	54.92	39.93	10.37	56.4	297	92	A	V
		17355	47.79	-20.41	68.2	49.47	41.96	12.82	56.46	100	0	P	V
													V
802.11a CH 165 5825MHz		11650	61.48	-12.52	74	67.7	39.77	10.41	56.4	303	183	P	H
		11650	48.92	-5.08	54	55.14	39.77	10.41	56.4	303	183	A	H
		17475	47.78	-20.42	68.2	49.14	42.38	12.91	56.65	100	0	P	H
													H
		11650	60.54	-13.46	74	66.76	39.77	10.41	56.4	301	87	P	V
		11650	47.83	-6.17	54	54.05	39.77	10.41	56.4	301	87	A	V
		17475	48.31	-19.89	68.2	49.67	42.38	12.91	56.65	100	0	P	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		5648.8	49.65	-18.55	68.2	42.33	32.19	6.35	31.22	398	172	P	H
		5699.2	62.67	-41.94	104.61	55.29	32.27	6.36	31.25	398	172	P	H
		5719.4	72.74	-37.89	110.63	65.32	32.31	6.37	31.26	398	172	P	H
		5722.6	76.24	-40.49	116.73	68.82	32.31	6.37	31.26	398	172	P	H
	*	5745	113.85	-	-	106.41	32.34	6.37	31.27	398	172	P	H
	*	5745	103	-	-	95.56	32.34	6.37	31.27	398	172	A	H
													H
													H
		5636.4	49.68	-18.52	68.2	42.36	32.19	6.35	31.22	254	141	P	V
		5698.8	61.74	-42.58	104.32	54.36	32.27	6.36	31.25	254	141	P	V
		5720	71.88	-38.92	110.8	64.46	32.31	6.37	31.26	254	141	P	V
		5720	71.88	-38.92	110.8	64.46	32.31	6.37	31.26	254	141	P	V
	*	5745	112.07	-	-	104.63	32.34	6.37	31.27	254	141	P	V
	*	5745	101.25	-	-	93.81	32.34	6.37	31.27	254	141	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		5640.6	49.85	-18.35	68.2	42.53	32.19	6.35	31.22	400	174	P	H
		5690.2	49.53	-48.44	97.97	42.15	32.27	6.36	31.25	400	174	P	H
		5718.8	52.43	-58.03	110.46	45.01	32.31	6.37	31.26	400	174	P	H
		5721.6	52.97	-61.48	114.45	45.55	32.31	6.37	31.26	400	174	P	H
	*	5785	108.94	-	-	101.46	32.39	6.38	31.29	400	174	P	H
	*	5785	98.2	-	-	90.72	32.39	6.38	31.29	400	174	A	H
		5853	49.39	-65.97	115.36	41.81	32.48	6.42	31.32	400	174	P	H
		5868.8	49.09	-57.84	106.93	41.48	32.51	6.43	31.33	400	174	P	H
		5891.4	49.57	-43.46	93.03	41.91	32.56	6.44	31.34	400	174	P	H
		5937.2	49.15	-19.05	68.2	41.44	32.6	6.48	31.37	400	174	P	H
													H
													H
		5645.2	50.56	-17.64	68.2	43.24	32.19	6.35	31.22	268	190	P	V
		5687.8	49.45	-46.75	96.2	42.07	32.27	6.36	31.25	268	190	P	V
		5719.4	49.94	-60.69	110.63	42.52	32.31	6.37	31.26	268	190	P	V
		5721.6	53.45	-61	114.45	46.03	32.31	6.37	31.26	268	190	P	V
	*	5785	107	-	-	99.52	32.39	6.38	31.29	268	190	P	V
	*	5785	96.22	-	-	88.74	32.39	6.38	31.29	268	190	A	V
		5853	49.13	-66.23	115.36	41.55	32.48	6.42	31.32	268	190	P	V
		5874.4	49.81	-55.56	105.37	42.18	32.53	6.43	31.33	268	190	P	V
		5883.8	49.39	-49.28	98.67	41.76	32.53	6.44	31.34	268	190	P	V
		5948	49.87	-18.33	68.2	42.13	32.63	6.48	31.37	268	190	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	111.69	-	-	104.15	32.46	6.39	31.31	400	171	P	H
	*	5825	100.95	-	-	93.41	32.46	6.39	31.31	400	171	A	H
		5852.6	66.44	-49.83	116.27	58.86	32.48	6.42	31.32	400	171	P	H
		5859.8	65.55	-43.9	109.45	57.95	32.51	6.42	31.33	400	171	P	H
		5880	57.19	-44.3	101.49	49.55	32.53	6.44	31.33	400	171	P	H
		5932.8	49.33	-18.87	68.2	41.61	32.6	6.47	31.35	400	171	P	H
													H
													H
	*	5825	110.14	-	-	102.6	32.46	6.39	31.31	256	141	P	V
	*	5825	99.39	-	-	91.85	32.46	6.39	31.31	256	141	A	V
		5854.2	67.39	-45.23	112.62	59.78	32.51	6.42	31.32	256	141	P	V
		5857.4	66.25	-43.88	110.13	58.64	32.51	6.42	31.32	256	141	P	V
		5877.8	57.99	-45.13	103.12	50.36	32.53	6.43	31.33	256	141	P	V
		5940	49.42	-18.78	68.2	41.68	32.63	6.48	31.37	256	141	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	64.53	-9.47	74	70.5	40.11	10.33	56.41	316	185	P	H
		11490	50.98	-3.02	54	56.95	40.11	10.33	56.41	316	185	A	H
		17235	47.47	-20.73	68.2	49.47	41.54	12.73	56.27	400	0	P	H
													H
		11490	60.46	-13.54	74	66.43	40.11	10.33	56.41	315	92	P	V
		11490	47.09	-6.91	54	53.06	40.11	10.33	56.41	315	92	A	V
		17235	47.51	-20.69	68.2	49.51	41.54	12.73	56.27	100	0	P	V
													V
802.11n HT20 CH 157 5785MHz		11570	64.62	-9.38	74	70.72	39.93	10.37	56.4	309	184	P	H
		11570	50.88	-3.12	54	56.98	39.93	10.37	56.4	309	184	A	H
		17355	48.47	-19.73	68.2	50.15	41.96	12.82	56.46	100	0	P	H
													H
		11570	62.6	-11.4	74	68.7	39.93	10.37	56.4	298	91	P	V
		11570	48.68	-5.32	54	54.78	39.93	10.37	56.4	298	91	A	V
		17355	48.43	-19.77	68.2	50.11	41.96	12.82	56.46	100	0	P	V
													V
802.11n HT20 CH 165 5825MHz		11650	60.99	-13.01	74	67.21	39.77	10.41	56.4	301	151	P	H
		11650	48.08	-5.92	54	54.3	39.77	10.41	56.4	301	151	A	H
		17475	47.49	-20.71	68.2	48.85	42.38	12.91	56.65	100	0	P	H
													H
		11650	60.82	-13.18	74	67.04	39.77	10.41	56.4	301	90	P	V
		11650	47.8	-6.2	54	54.02	39.77	10.41	56.4	301	90	A	V
		17475	47.69	-20.51	68.2	49.05	42.38	12.91	56.65	100	0	P	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		5638	59.03	-9.17	68.2	51.71	32.19	6.35	31.22	398	170	P	H
		5696.2	67.64	-34.76	102.4	60.26	32.27	6.36	31.25	398	170	P	H
		5713.8	72.26	-36.81	109.07	64.87	32.29	6.36	31.26	398	170	P	H
		5723	76.75	-40.89	117.64	69.33	32.31	6.37	31.26	398	170	P	H
	*	5755	107.53	-	-	100.07	32.36	6.37	31.27	398	170	P	H
	*	5755	97.35	-	-	89.89	32.36	6.37	31.27	398	170	A	H
		5851.2	54.82	-64.64	119.46	47.24	32.48	6.42	31.32	398	170	P	H
		5857.6	51.54	-58.53	110.07	43.93	32.51	6.42	31.32	398	170	P	H
		5878.8	54.31	-48.07	102.38	46.68	32.53	6.43	31.33	398	170	P	H
		5949.8	49.14	-19.06	68.2	41.4	32.63	6.48	31.37	398	170	P	H
													H
													H
		5640	56.2	-12	68.2	48.88	32.19	6.35	31.22	253	139	P	V
		5696.6	63.89	-38.8	102.69	56.51	32.27	6.36	31.25	253	139	P	V
		5720	70.25	-40.55	110.8	62.83	32.31	6.37	31.26	253	139	P	V
		5721.4	72.91	-41.08	113.99	65.49	32.31	6.37	31.26	253	139	P	V
	*	5755	106.43	-	-	98.97	32.36	6.37	31.27	253	139	P	V
	*	5755	96.05	-	-	88.59	32.36	6.37	31.27	253	139	A	V
		5852	54.38	-63.26	117.64	46.8	32.48	6.42	31.32	253	139	P	V
		5857.8	55.23	-54.78	110.01	47.63	32.51	6.42	31.33	253	139	P	V
		5876.4	51.86	-52.3	104.16	44.23	32.53	6.43	31.33	253	139	P	V
		5939.4	50.04	-18.16	68.2	42.3	32.63	6.48	31.37	253	139	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		5603.4	58.95	-9.25	68.2	51.68	32.14	6.34	31.21	397	169	P	H
		5679.2	60.47	-29.38	89.85	53.11	32.24	6.35	31.23	397	169	P	H
		5718.8	65.51	-44.95	110.46	58.09	32.31	6.37	31.26	397	169	P	H
		5725	66.08	-56.12	122.2	58.66	32.31	6.37	31.26	397	169	P	H
	*	5795	108.12	-	-	100.62	32.41	6.38	31.29	397	169	P	H
	*	5795	97.87	-	-	90.37	32.41	6.38	31.29	397	169	A	H
		5855	60.27	-50.53	110.8	52.66	32.51	6.42	31.32	397	169	P	H
		5858	63.52	-46.44	109.96	55.92	32.51	6.42	31.33	397	169	P	H
		5879.4	58.03	-43.9	101.93	50.39	32.53	6.44	31.33	397	169	P	H
		5940.4	51.55	-16.65	68.2	43.81	32.63	6.48	31.37	397	169	P	H
													H
													H
		5631.6	57.42	-10.78	68.2	50.12	32.17	6.35	31.22	250	139	P	V
		5690	61.88	-35.95	97.83	54.5	32.27	6.36	31.25	250	139	P	V
		5713.2	62.67	-46.23	108.9	55.28	32.29	6.36	31.26	250	139	P	V
		5723.4	64.14	-54.41	118.55	56.72	32.31	6.37	31.26	250	139	P	V
	*	5795	107.49	-	-	99.99	32.41	6.38	31.29	250	139	P	V
	*	5795	97.26	-	-	89.76	32.41	6.38	31.29	250	139	A	V
		5853.6	61.36	-52.63	113.99	53.75	32.51	6.42	31.32	250	139	P	V
		5857.2	60.8	-49.38	110.18	53.19	32.51	6.42	31.32	250	139	P	V
		5878.2	57.26	-45.56	102.82	49.63	32.53	6.43	31.33	250	139	P	V
		5940.6	52.37	-15.83	68.2	44.63	32.63	6.48	31.37	250	139	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	60.19	-13.81	74	66.15	40.1	10.34	56.4	300	186	P	H
		11510	48.96	-5.04	54	54.92	40.1	10.34	56.4	300	186	A	H
		17265	47.14	-21.06	68.2	49.06	41.66	12.75	56.33	100	0	P	H
													H
		11510	58.2	-15.8	74	64.16	40.1	10.34	56.4	307	90	P	V
		11510	46.17	-7.83	54	52.13	40.1	10.34	56.4	307	90	A	V
		17265	47.03	-21.17	68.2	48.95	41.66	12.75	56.33	100	0	P	V
													V
802.11n HT40 CH 159 5795MHz		11590	60.7	-13.3	74	66.83	39.89	10.38	56.4	306	185	P	H
		11590	49.32	-4.68	54	55.45	39.89	10.38	56.4	306	185	A	H
		17385	47.41	-20.79	68.2	49	42.08	12.84	56.51	100	0	P	H
													H
		11590	58.61	-15.39	74	64.74	39.89	10.38	56.4	312	93	P	V
		11590	46.58	-7.42	54	52.71	39.89	10.38	56.4	312	93	A	V
		17385	47.3	-20.9	68.2	48.89	42.08	12.84	56.51	100	0	P	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 VHT20 (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 VHT20 CH 149 5745MHz		5646.4	50.3	-17.9	68.2	42.98	32.19	6.35	31.22	397	171	P	H
		5694.6	63.68	-37.54	101.22	56.3	32.27	6.36	31.25	397	171	P	H
		5714.4	68.91	-40.32	109.23	61.52	32.29	6.36	31.26	397	171	P	H
		5722	77.01	-38.35	115.36	69.59	32.31	6.37	31.26	397	171	P	H
	*	5745	114.65	-	-	107.21	32.34	6.37	31.27	397	171	P	H
	*	5745	102.89	-	-	95.45	32.34	6.37	31.27	397	171	A	H
													H
													H
		5646.6	50.11	-18.09	68.2	42.79	32.19	6.35	31.22	262	139	P	V
		5697.2	56.88	-46.26	103.14	49.5	32.27	6.36	31.25	262	139	P	V
		5712.6	67.94	-40.79	108.73	60.55	32.29	6.36	31.26	262	139	P	V
		5724.4	73.12	-47.71	120.83	65.7	32.31	6.37	31.26	262	139	P	V
	*	5745	111.98	-	-	104.54	32.34	6.37	31.27	262	139	P	V
	*	5745	101.1	-	-	93.66	32.34	6.37	31.27	262	139	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)
802.11ac VHT20 CH 157 5785MHz		5635.8	48.92	-19.28	68.2	41.6	32.19	6.35	31.22	400	173	P	H
		5679.2	49.29	-40.56	89.85	41.93	32.24	6.35	31.23	400	173	P	H
		5708	49.96	-57.48	107.44	42.57	32.29	6.36	31.26	400	173	P	H
		5724.2	54.88	-65.5	120.38	47.46	32.31	6.37	31.26	400	173	P	H
	*	5785	108.46	-	-	100.98	32.39	6.38	31.29	400	173	P	H
	*	5785	97.75	-	-	90.27	32.39	6.38	31.29	400	173	A	H
		5853.4	49.46	-64.99	114.45	41.88	32.48	6.42	31.32	400	173	P	H
		5856.6	49.92	-60.43	110.35	42.31	32.51	6.42	31.32	400	173	P	H
		5914.6	49.68	-26.19	75.87	41.99	32.58	6.46	31.35	400	173	P	H
		5941.4	49.81	-18.39	68.2	42.07	32.63	6.48	31.37	400	173	P	H
													H
													H
		5623.4	49.05	-19.15	68.2	41.75	32.17	6.34	31.21	251	189	P	V
		5689	49.7	-47.39	97.09	42.32	32.27	6.36	31.25	251	189	P	V
		5711	50	-58.28	108.28	42.61	32.29	6.36	31.26	251	189	P	V
		5722.6	54.16	-62.57	116.73	46.74	32.31	6.37	31.26	251	189	P	V
	*	5785	106.84	-	-	99.36	32.39	6.38	31.29	251	189	P	V
	*	5785	95.98	-	-	88.5	32.39	6.38	31.29	251	189	A	V
		5852.4	48.53	-68.2	116.73	40.95	32.48	6.42	31.32	251	189	P	V
		5869.4	49.08	-57.69	106.77	41.47	32.51	6.43	31.33	251	189	P	V
		5876.6	49.64	-54.37	104.01	42.01	32.53	6.43	31.33	251	189	P	V
		5941.4	49.24	-18.96	68.2	41.5	32.63	6.48	31.37	251	189	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)
802.11ac VHT20 CH 165 5825MHz	*	5825	111.82	-	-	104.28	32.46	6.39	31.31	400	171	P	H
	*	5825	100.98	-	-	93.44	32.46	6.39	31.31	400	171	A	H
		5851.4	67.17	-51.84	119.01	59.59	32.48	6.42	31.32	400	171	P	H
		5855.8	68.83	-41.75	110.58	61.22	32.51	6.42	31.32	400	171	P	H
		5876.2	56.14	-48.17	104.31	48.51	32.53	6.43	31.33	400	171	P	H
		5934	49.73	-18.47	68.2	42	32.6	6.48	31.35	400	171	P	H
													H
													H
	*	5825	110.14	-	-	102.6	32.46	6.39	31.31	260	138	P	V
	*	5825	99.46	-	-	91.92	32.46	6.39	31.31	260	138	A	V
		5852	70.95	-46.69	117.64	63.37	32.48	6.42	31.32	260	138	P	V
		5855.4	64.53	-46.16	110.69	56.92	32.51	6.42	31.32	260	138	P	V
		5876.8	59.27	-44.59	103.86	51.64	32.53	6.43	31.33	260	138	P	V
		5937.2	48.97	-19.23	68.2	41.26	32.6	6.48	31.37	260	138	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 VHT20 (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 VHT20 CH 149 5745MHz		11490	64.76	-9.24	74	70.73	40.11	10.33	56.41	297	184	P	H
		11490	50.8	-3.2	54	56.77	40.11	10.33	56.41	297	184	A	H
		17235	46.92	-21.28	68.2	48.92	41.54	12.73	56.27	100	0	P	H
													H
		11490	61.29	-12.71	74	67.26	40.11	10.33	56.41	299	94	P	V
		11490	47.28	-6.72	54	53.25	40.11	10.33	56.41	299	94	A	V
		17235	47.38	-20.82	68.2	49.38	41.54	12.73	56.27	100	0	P	V
													V
802.11ac VHT20 CH 157 5785MHz		11570	64.11	-9.89	74	70.21	39.93	10.37	56.4	308	184	P	H
		11570	50.85	-3.15	54	56.95	39.93	10.37	56.4	308	184	A	H
		17355	48.49	-19.71	68.2	50.17	41.96	12.82	56.46	100	0	P	H
													H
		11570	62.83	-11.17	74	68.93	39.93	10.37	56.4	297	92	P	V
		11570	48.75	-5.25	54	54.85	39.93	10.37	56.4	297	92	A	V
		17355	48.48	-19.72	68.2	50.16	41.96	12.82	56.46	100	0	P	V
													V
802.11ac VHT20 CH 165 5825MHz		11650	61.2	-12.8	74	67.42	39.77	10.41	56.4	309	184	P	H
		11650	48.89	-5.11	54	55.11	39.77	10.41	56.4	309	184	A	H
		17475	48.16	-20.04	68.2	49.52	42.38	12.91	56.65	400	0	P	H
													H
		11650	60.67	-13.33	74	66.89	39.77	10.41	56.4	302	85	P	V
		11650	48.31	-5.69	54	54.53	39.77	10.41	56.4	302	85	A	V
		17475	48	-20.2	68.2	49.36	42.38	12.91	56.65	100	0	P	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 VHT40 (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 VHT40 CH 151 5755MHz		5643.8	59.35	-8.85	68.2	52.03	32.19	6.35	31.22	396	171	P	H
		5694.8	66.65	-34.72	101.37	59.27	32.27	6.36	31.25	396	171	P	H
		5709.4	71.52	-36.31	107.83	64.13	32.29	6.36	31.26	396	171	P	H
		5721.2	76.95	-36.59	113.54	69.53	32.31	6.37	31.26	396	171	P	H
	*	5755	107.93	-	-	100.47	32.36	6.37	31.27	396	171	P	H
	*	5755	97.77	-	-	90.31	32.36	6.37	31.27	396	171	A	H
		5851.2	55.68	-63.78	119.46	48.1	32.48	6.42	31.32	396	171	P	H
		5858.8	54.74	-54.99	109.73	47.14	32.51	6.42	31.33	396	171	P	H
		5876.6	52.98	-51.03	104.01	45.35	32.53	6.43	31.33	396	171	P	H
		5932.2	49.31	-18.89	68.2	41.59	32.6	6.47	31.35	396	171	P	H
													H
													H
		5645	58.62	-9.58	68.2	51.3	32.19	6.35	31.22	254	138	P	V
		5694	64.09	-36.69	100.78	56.71	32.27	6.36	31.25	254	138	P	V
		5712.8	70.46	-38.33	108.79	63.07	32.29	6.36	31.26	254	138	P	V
		5724	69.44	-50.48	119.92	62.02	32.31	6.37	31.26	254	138	P	V
	*	5755	106.38	-	-	98.92	32.36	6.37	31.27	254	138	P	V
	*	5755	96.23	-	-	88.77	32.36	6.37	31.27	254	138	A	V
		5853	51.35	-64.01	115.36	43.77	32.48	6.42	31.32	254	138	P	V
		5863	53.91	-54.65	108.56	46.3	32.51	6.43	31.33	254	138	P	V
		5889	50.38	-44.43	94.81	42.72	32.56	6.44	31.34	254	138	P	V
		5925.4	48.95	-19.25	68.2	41.23	32.6	6.47	31.35	254	138	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)
802.11ac VHT40 CH 159 5795MHz		5633.8	58.56	-9.64	68.2	51.24	32.19	6.35	31.22	392	169	P	H
		5685.2	62.38	-31.9	94.28	55	32.27	6.36	31.25	392	169	P	H
		5706.2	64.93	-42.01	106.94	57.54	32.29	6.36	31.26	392	169	P	H
		5723.4	64.67	-53.88	118.55	57.25	32.31	6.37	31.26	392	169	P	H
	*	5795	108.25	-	-	100.75	32.41	6.38	31.29	392	169	P	H
	*	5795	98.25	-	-	90.75	32.41	6.38	31.29	392	169	A	H
		5853.4	60.73	-53.72	114.45	53.15	32.48	6.42	31.32	392	169	P	H
		5856.6	58.45	-51.9	110.35	50.84	32.51	6.42	31.32	392	169	P	H
		5888.6	55.4	-39.7	95.1	47.74	32.56	6.44	31.34	392	169	P	H
		5928.6	49.6	-18.6	68.2	41.88	32.6	6.47	31.35	392	169	P	H
													H
													H
		5632.6	56.7	-11.5	68.2	49.38	32.19	6.35	31.22	243	140	P	V
		5683.6	60.64	-32.46	93.1	53.26	32.27	6.36	31.25	243	140	P	V
		5711	63.56	-44.72	108.28	56.17	32.29	6.36	31.26	243	140	P	V
		5723.6	60.42	-58.59	119.01	53	32.31	6.37	31.26	243	140	P	V
	*	5795	107.61	-	-	100.11	32.41	6.38	31.29	243	140	P	V
	*	5795	97.09	-	-	89.59	32.41	6.38	31.29	243	140	A	V
		5852	59.05	-58.59	117.64	51.47	32.48	6.42	31.32	243	140	P	V
		5857.6	59.97	-50.1	110.07	52.36	32.51	6.42	31.32	243	140	P	V
		5882.8	55.91	-43.5	99.41	48.27	32.53	6.44	31.33	243	140	P	V
		5930.6	51.66	-16.54	68.2	43.94	32.6	6.47	31.35	243	140	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 VHT40 (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 VHT40 CH 151 5755MHz		11510	60.88	-13.12	74	66.84	40.1	10.34	56.4	300	186	P	H
		11510	49.32	-4.68	54	55.28	40.1	10.34	56.4	300	186	A	H
		17265	46.8	-21.4	68.2	48.72	41.66	12.75	56.33	400	0	P	H
													H
		11510	58.57	-15.43	74	64.53	40.1	10.34	56.4	292	92	P	V
		11510	47.39	-6.61	54	53.35	40.1	10.34	56.4	292	92	A	V
		17265	46.69	-21.51	68.2	48.61	41.66	12.75	56.33	100	0	P	V
													V
802.11ac VHT40 CH 159 5795MHz		11590	60.39	-13.61	74	66.52	39.89	10.38	56.4	308	181	P	H
		11590	49.08	-4.92	54	55.21	39.89	10.38	56.4	308	181	A	H
		17385	47.53	-20.67	68.2	49.12	42.08	12.84	56.51	100	0	P	H
													H
		11590	58.38	-15.62	74	64.51	39.89	10.38	56.4	308	98	P	V
		11590	46.33	-7.67	54	52.46	39.89	10.38	56.4	308	98	A	V
		17385	47.13	-21.07	68.2	48.72	42.08	12.84	56.51	100	0	P	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		5645.6	59.43	-8.77	68.2	52.11	32.19	6.35	31.22	398	171	P	H
		5695.8	66.67	-35.43	102.1	59.29	32.27	6.36	31.25	398	171	P	H
		5719.2	69.41	-41.17	110.58	61.99	32.31	6.37	31.26	398	171	P	H
		5724.4	70.77	-50.06	120.83	63.35	32.31	6.37	31.26	398	171	P	H
	*	5775	103.64	-	-	96.15	32.39	6.38	31.28	398	171	P	H
	*	5775	93.25	-	-	85.76	32.39	6.38	31.28	398	171	A	H
		5854.4	56.03	-56.14	112.17	48.42	32.51	6.42	31.32	398	171	P	H
		5862	56.83	-52.01	108.84	49.22	32.51	6.43	31.33	398	171	P	H
		5883.4	55.09	-43.87	98.96	47.46	32.53	6.44	31.34	398	171	P	H
		5928.6	49.63	-18.57	68.2	41.91	32.6	6.47	31.35	398	171	P	H
													H
													H
		5642.4	57.88	-10.32	68.2	50.56	32.19	6.35	31.22	253	140	P	V
		5699.6	63.83	-41.08	104.91	56.45	32.27	6.36	31.25	253	140	P	V
		5718.4	68.26	-42.09	110.35	60.84	32.31	6.37	31.26	253	140	P	V
		5724.2	68.3	-52.08	120.38	60.88	32.31	6.37	31.26	253	140	P	V
	*	5775	102.38	-	-	94.89	32.39	6.38	31.28	253	140	P	V
	*	5775	92.19	-	-	84.7	32.39	6.38	31.28	253	140	A	V
		5851.2	59.7	-59.76	119.46	52.12	32.48	6.42	31.32	253	140	P	V
		5856	55.96	-54.56	110.52	48.35	32.51	6.42	31.32	253	140	P	V
		5876.4	53.37	-50.79	104.16	45.74	32.53	6.43	31.33	253	140	P	V
		5934.8	51.7	-16.5	68.2	43.99	32.6	6.48	31.37	253	140	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	58.96	-15.04	74	65.02	39.98	10.36	56.4	320	185	P	H
		11550	46.16	-7.84	54	52.22	39.98	10.36	56.4	320	185	A	H
		17325	48.21	-19.99	68.2	49.99	41.84	12.79	56.41	100	0	P	H
													H
		11550	56.86	-17.14	74	62.92	39.98	10.36	56.4	400	94	P	V
		11550	44.6	-9.4	54	50.66	39.98	10.36	56.4	400	94	A	V
		17325	47.55	-20.65	68.2	49.33	41.84	12.79	56.41	100	0	P	V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Emission below 1GHz

5GHz WIFI 802.11a (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 802.11a LF		73.74	21.93	-18.07	40	41.16	12.35	0.73	32.31	-	-	P	H
		183.36	38.62	-4.88	43.5	54.94	14.65	1.3	32.27	100	0	P	H
		262.2	36.53	-9.47	46	47.56	19.68	1.47	32.18	-	-	P	H
		491.8	30.33	-15.67	46	37.08	23.59	1.86	32.2	-	-	P	H
		666.8	34.07	-11.93	46	37.84	26.25	2.16	32.18	-	-	P	H
		935.6	31.73	-14.27	46	30.31	29.91	2.69	31.18	-	-	P	H
													H
													H
													H
													H
													H
													H
		122.61	28.34	-15.16	43.5	42.43	17.28	0.92	32.29	-	-	P	V
		213.33	32.17	-11.33	43.5	48.07	15.02	1.33	32.25	-	-	P	V
		251.67	36.34	-9.66	46	48.38	18.72	1.44	32.2	100	0	P	V
		491.8	27.82	-18.18	46	34.57	23.59	1.86	32.2	-	-	P	V
		666.8	32.13	-13.87	46	35.9	26.25	2.16	32.18	-	-	P	V
		894.3	32.8	-13.2	46	32.75	29.01	2.58	31.54	-	-	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+2		(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 C. Radiated Spurious Emission Plots

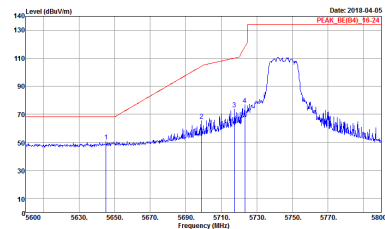
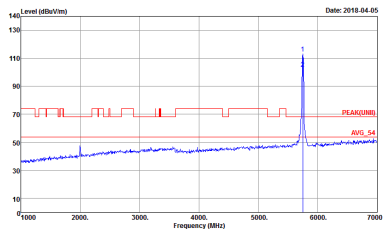
Test Engineer :	Watt Tseng, Karl Hou, and Nick Yu	Temperature :	21~23°C
		Relative Humidity :	59~62%

Note symbol

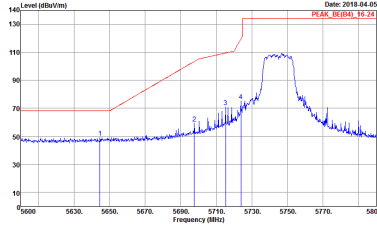
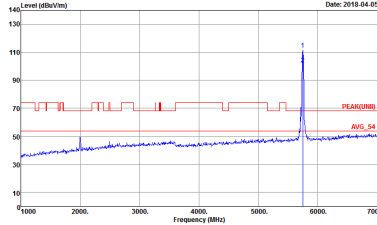
-L	Low channel location
-R	High channel location

Band 4 - 5725~5850MHz

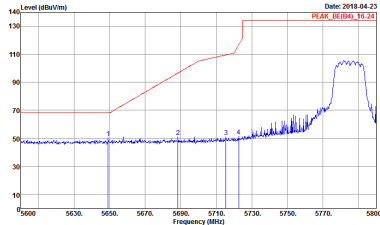
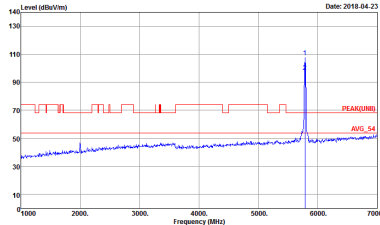
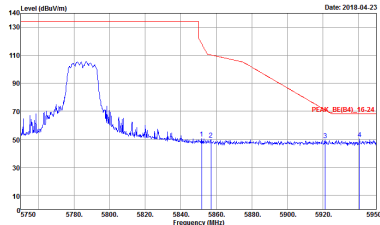
WIFI 802.11a (Band Edge @ 3m)

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH149 5745MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH12-14Y Condition : PEAK_BE(84)_16-24 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:1000.000GHz VBW:3000.000GHz SWT:Auto Project : Peak Mode : 773112-01 Date: 2018-04-05	 Site : 03CH12-14Y Condition : PEAK(UNIT) 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:1000.000GHz VBW:3000.000GHz SWT:Auto Project : Peak Mode : 773112-01 Date: 2018-04-05

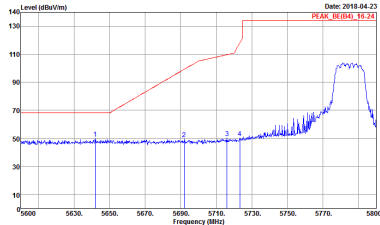
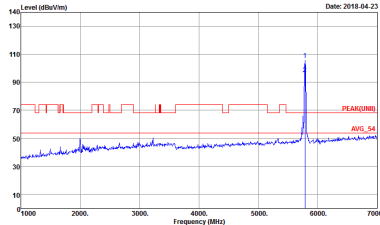
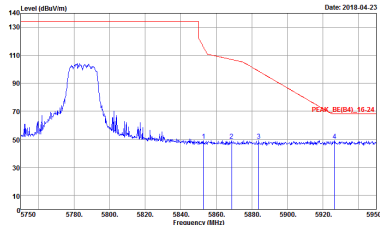


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH149 5745MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH12-HY Condition : (PEAK_RE(B4)) 16-24 3m HORN_9120D_1328 VERTICAL Detector : RBW:3000.0000Hz VBW:3000.0000Hz SWT:Auto Project : 773112-01 Mode : 28	 Site : 03CH12-HY Condition : (PEAK_UND1) 3m HORN_9120D_1328 VERTICAL Detector : RBW:3000.0000Hz VBW:3000.0000Hz SWT:Auto Project : 773112-01 Mode : 28

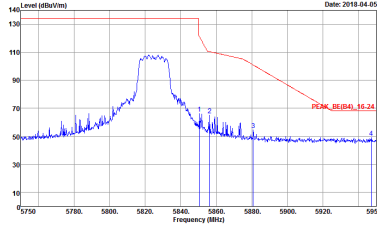
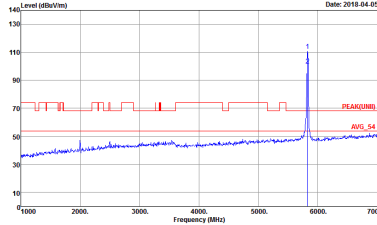


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH157 5785MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:3000.000kHz VBW:3000.000kHz SWT:Auto Project : 773112-03 Mode : 48	 Site : 03CH12-HY Condition : PEAK_UND1 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:3000.000kHz VBW:3000.000kHz SWT:Auto Project : 773112-03 Mode : 48
Peak	 Site : 03CH12-HY Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:3000.000kHz VBW:3000.000kHz SWT:Auto Project : 773112-03 Mode : 48	Left blank

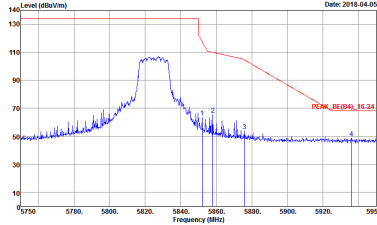
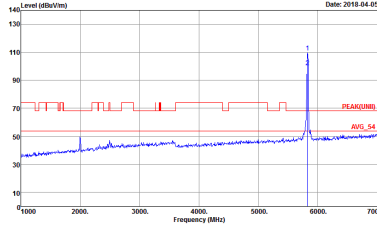


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH157 5785MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1328 VERTICAL Detector : RBW:3000.000kHz VBW:3000.000kHz SWT:Auto Project : 773112-03 Mode : 48	 Site : 03CH12-HY Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1328 VERTICAL Detector : RBW:3000.000kHz VBW:3000.000kHz SWT:Auto Project : 773112-03 Mode : 48
Peak	 Site : 03CH12-HY Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1328 VERTICAL Detector : RBW:3000.000kHz VBW:3000.000kHz SWT:Auto Project : 773112-03 Mode : 48	Left blank



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH165 5825MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH12-HY Condition : (PEAK_BE(B4)_16-24 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:3000.000kHz VBW:3000.000kHz SW1:Auto Project : 773112-01 Mode : 37	 Site : 03CH12-HY Condition : (PEAK_UND1) 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:3000.000kHz VBW:3000.000kHz SW1:Auto Project : 773112-01 Mode : 37



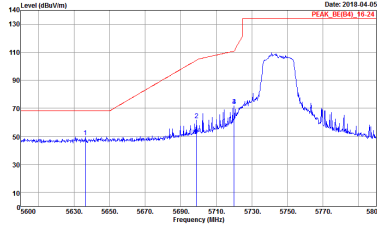
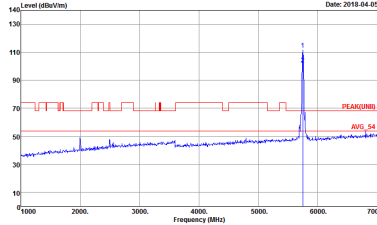
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH165 5825MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH12-HY Condition : (PEAK_BE(B4)_16-24 3m HORN_9120D_1328 VERTICAL RBW:3000.0000Hz VBW:3000.0000Hz SWT:Auto Detector : Peak Project : 773112-01 Mode : 37	 Site : 03CH12-HY Condition : (PEAK_UND1) 3m HORN_9120D_1328 VERTICAL RBW:3000.0000Hz VBW:3000.0000Hz SWT:Auto Detector : Peak Project : 773112-01 Mode : 37

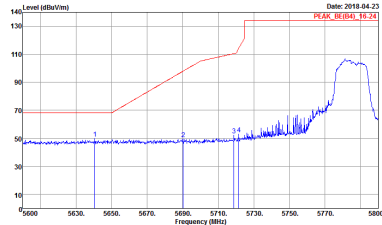
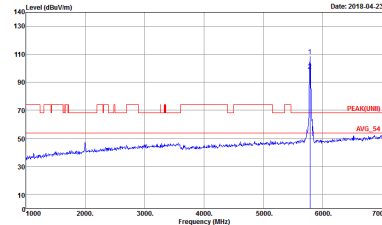
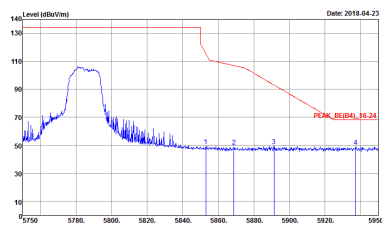


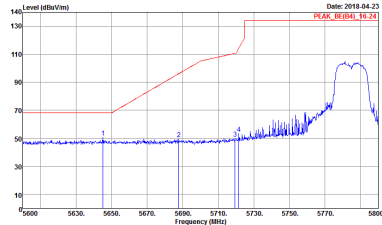
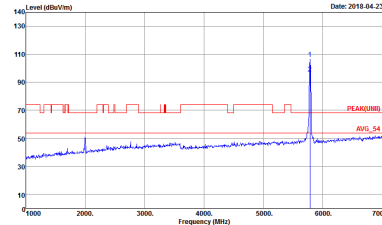
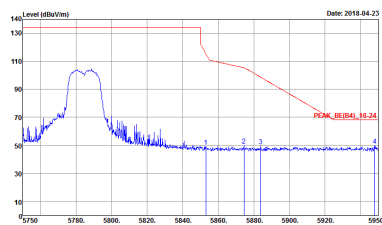
Band 4 5725~5850MHz
WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH149 5745MHz	
1+2	Horizontal	Fundamental
Peak	Site : 03CH12-HY Condition : PEAK_BE(04)_16-24 3m HORN_9120D_1328 HORIZONTAL Detector : Peak Project : 773112-01 Mode : 29	Site : 03CH12-HY Condition : PEAK(FUN1) 3m HORN_9120D_1328 HORIZONTAL Detector : Peak Project : 773112-01 Mode : 29

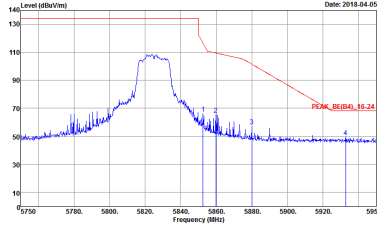
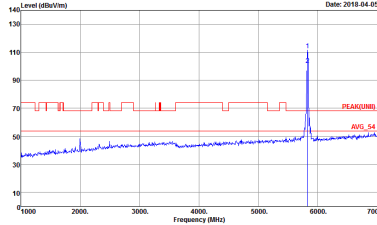


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH149 5745MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH12-HY Condition : (PEAK_RE(B4)_16-24 3m HORN_9120D_1328 VERTICAL : RBW:3000.0000Hz VBW:3000.0000Hz SWT:Auto Detector : Peak Project : 773112-01 Mode : 29	 Site : 03CH12-HY Condition : (PEAK_UND1) 3m HORN_9120D_1328 VERTICAL : RBW:3000.0000Hz VBW:3000.0000Hz SWT:Auto Detector : Peak Project : 773112-01 Mode : 29

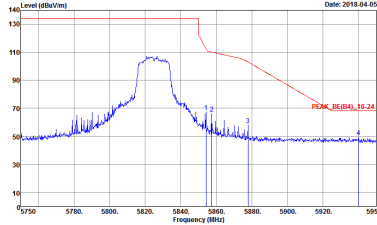
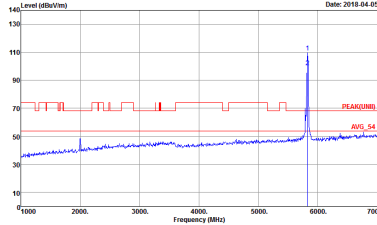
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH157 5785MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:3000.000kHz VBW:3000.000kHz SWT:Auto Project : 773112-03 Mode : 51	 Site : 03CH12-HY Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:3000.000kHz VBW:3000.000kHz SWT:Auto Project : 773112-03 Mode : 51
Peak	 Site : 03CH12-HY Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:3000.000kHz VBW:3000.000kHz SWT:Auto Project : 773112-03 Mode : 51	Left blank

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH157 5785MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1328 VERTICAL Detector : RBW:3000.000kHz VBW:3000.000kHz SWT:Auto Project : 773112-03 Mode : 51	 Site : 03CH12-HY Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1328 VERTICAL Detector : RBW:3000.000kHz VBW:3000.000kHz SWT:Auto Project : 773112-03 Mode : 51
Peak	 Site : 03CH12-HY Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1328 VERTICAL Detector : RBW:3000.000kHz VBW:3000.000kHz SWT:Auto Project : 773112-03 Mode : 51	Left blank



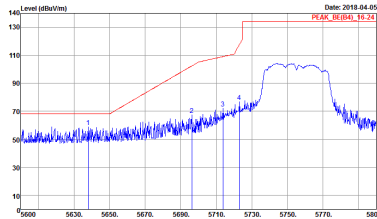
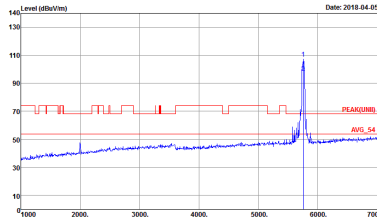
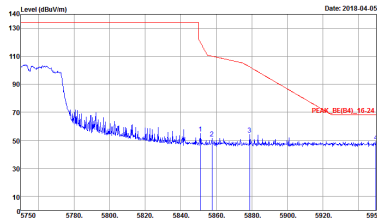
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH165 5825MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH12-HY Condition : (PEAK_BE(B4)_16-24 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:3000.000kHz VBW:3000.000kHz SW1:Auto Project : 773112-01 Mode : 38	 Site : 03CH12-HY Condition : (PEAK_UND1) 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:3000.000kHz VBW:3000.000kHz SW1:Auto Project : 773112-01 Mode : 38



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH165 5825MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH12-HY Condition : (PEAK_BE(B4)_16-24 3m HORN_9120D_1328 VERTICAL RBW:3000.000kHz VBW:3000.000kHz SWT:Auto Detector : Peak Project : 773112-01 Mode : 38	 Site : 03CH12-HY Condition : (PEAK_UND1) 3m HORN_9120D_1328 VERTICAL RBW:3000.000kHz VBW:3000.000kHz SWT:Auto Detector : Peak Project : 773112-01 Mode : 38



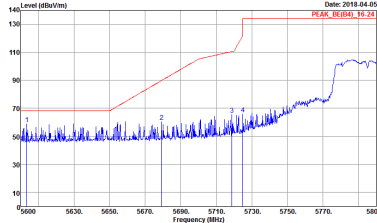
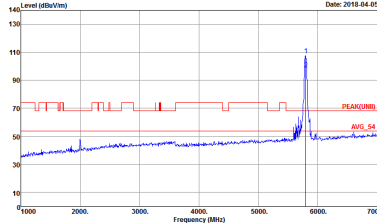
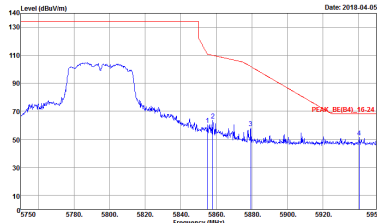
Band 4 5725~5850MHz
WIFI 802.11n HT40 (Band Edge @ 3m)

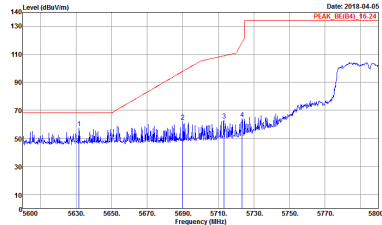
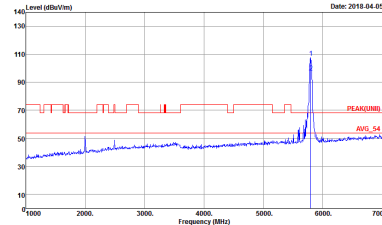
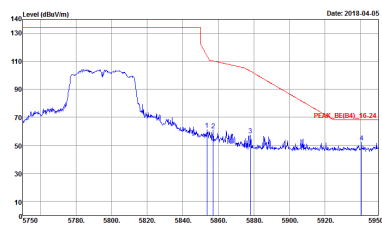
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT40 CH151 5755MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1328 HORIZONTAL Detector : Peak Project : 773112-01 Mode : 31	 Site : 03CH12-HY Condition : PEAK(UNIT) 3m HORN_9120D_1328 HORIZONTAL Detector : Peak Project : 773112-01 Mode : 31
Peak	 Site : 03CH12-HY Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1328 HORIZONTAL Detector : Peak Project : 773112-01 Mode : 31	Left blank



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT40 CH151 5755MHz	
1+2	Vertical	Fundamental
Peak	Site : 03CH12-HY Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1328 VERTICAL Detector : RBW:3000.000kHz VBW:3000.000kHz SWT:Auto Project : 773112-01 Mode : 31	Site : 03CH12-HY Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1328 VERTICAL Detector : RBW:3000.000kHz VBW:3000.000kHz SWT:Auto Project : 773112-01 Mode : 31
Peak	Site : 03CH12-HY Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1328 VERTICAL Detector : RBW:3000.000kHz VBW:3000.000kHz SWT:Auto Project : 773112-01 Mode : 31	Left blank

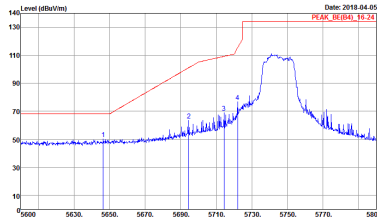
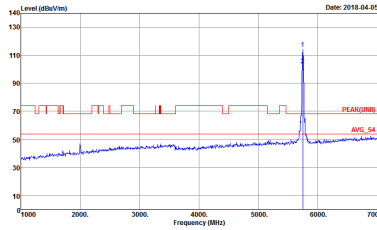


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT40 CH159 5795MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1328 HORIZONTAL Detector : Peak Project : 773112-01 Mode : 35	 Site : 03CH12-HY Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1328 HORIZONTAL Detector : Peak Project : 773112-01 Mode : 35
Peak	 Site : 03CH12-HY Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1328 HORIZONTAL Detector : Peak Project : 773112-01 Mode : 35	Left blank

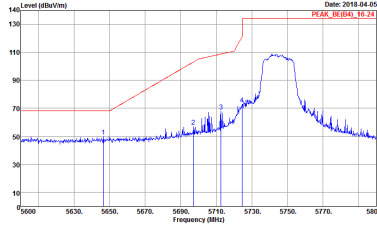
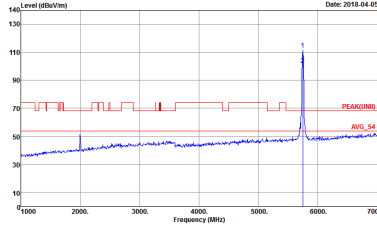
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT40 CH159 5795MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1328 VERTICAL Detector : Peak Project : 773112-01 Mode : 35	 Site : 03CH12-HY Condition : PEAK(UNIT) 3m HORN_9120D_1328 VERTICAL Detector : Peak Project : 773112-01 Mode : 35
Peak	 Site : 03CH12-HY Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1328 VERTICAL Detector : Peak Project : 773112-01 Mode : 35	Left blank



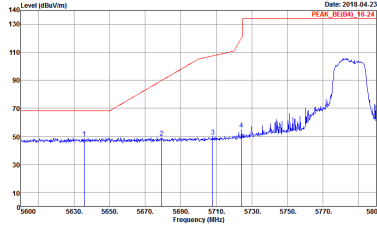
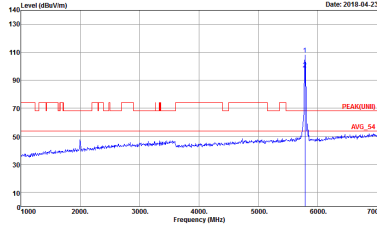
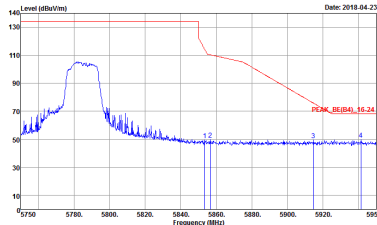
Band 4 5725~5850MHz
WIFI 802.11ac VHT20 (Band Edge @ 3m)

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH149 5745MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1328 HORIZONTAL Detector : Peak Project : 773112-01 Mode : 30	 Site : 03CH12-HY Condition : PEAK(UNIT) 3m HORN_9120D_1328 HORIZONTAL Detector : Peak Project : 773112-01 Mode : 30

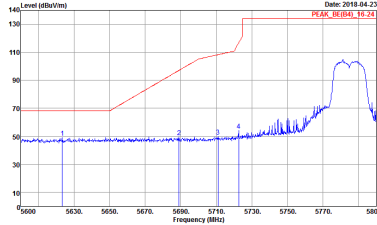
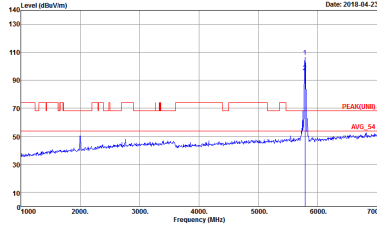
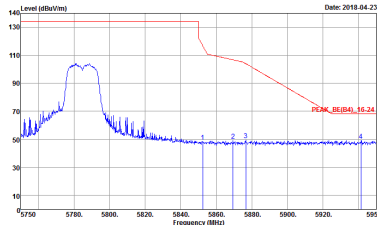


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH149 5745MHz	
1+2	Vertical	Fundamental
Peak Avg.	 Site : 03CH12-HY Condition : PEAK_RE(B4)_16-24 3m HORN_9120D_1328 VERTICAL Detector : RBW:3000.0000Hz VBW:3000.0000Hz SWT:Auto Project : 773112-01 Mode : 30	 Site : 03CH12-HY Condition : PEAK_UND(1) 3m HORN_9120D_1328 VERTICAL Detector : RBW:3000.0000Hz VBW:3000.0000Hz SWT:Auto Project : 773112-01 Mode : 30

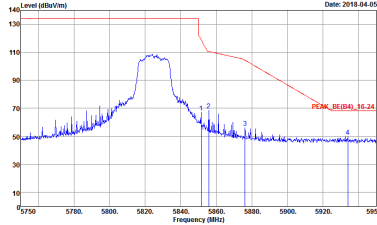
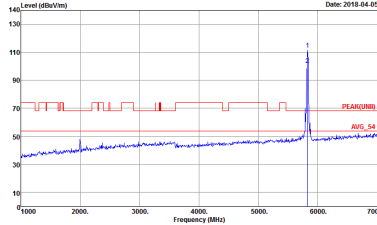


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH157 5785MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:3000.000kHz VBW:3000.000kHz SWT:Auto Project : 773112-03 Mode : 54	 Site : 03CH12-HY Condition : PEAK(UNIT) 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:3000.000kHz VBW:3000.000kHz SWT:Auto Project : 773112-03 Mode : 54
Peak	 Site : 03CH12-HY Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:3000.000kHz VBW:3000.000kHz SWT:Auto Project : 773112-03 Mode : 54	Left blank

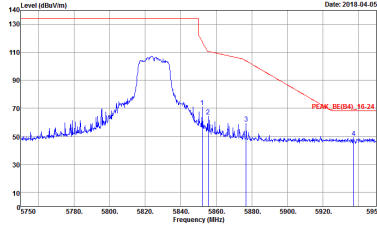
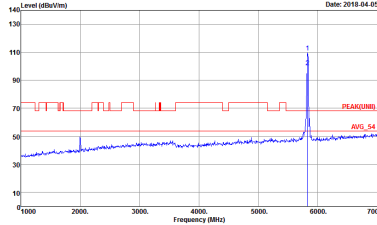


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH157 5785MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1328 VERTICAL Detector : RBW:3000.000kHz VBW:3000.000kHz SWT:Auto Project : 773112-03 Mode : 54	 Site : 03CH12-HY Condition : PEAK(UNIT) 3m HORN_9120D_1328 VERTICAL Detector : RBW:3000.000kHz VBW:3000.000kHz SWT:Auto Project : 773112-03 Mode : 54
Peak	 Site : 03CH12-HY Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1328 VERTICAL Detector : RBW:3000.000kHz VBW:3000.000kHz SWT:Auto Project : 773112-03 Mode : 54	Left blank



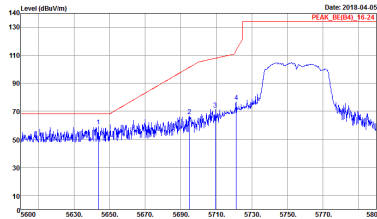
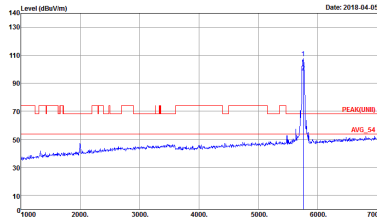
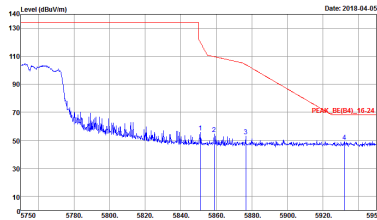
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH165 5825MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_16(04)_16-24 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:3000.000kHz VBW:3000.000kHz SWT:Auto Project : 773112-01 Mode : 39	 Site : 03CH12-HY Condition : PEAK(00B) 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:3000.000kHz VBW:3000.000kHz SWT:Auto Project : 773112-01 Mode : 39



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH165 5825MHz	
1+2	Vertical	Fundamental
Peak Avg.	 Site : 03CH12-HY Condition : (PEAK_BE(B4)_16-24 3m HORN_9120D_1328 VERTICAL Detector : RBW:3000.0000Hz VBW:3000.0000Hz SWT:Auto Detector : Peak Project : 773112-01 Mode : 39	 Site : 03CH12-HY Condition : (PEAK_UNI(T)) 3m HORN_9120D_1328 VERTICAL Detector : RBW:3000.0000Hz VBW:3000.0000Hz SWT:Auto Detector : Peak Project : 773112-01 Mode : 39



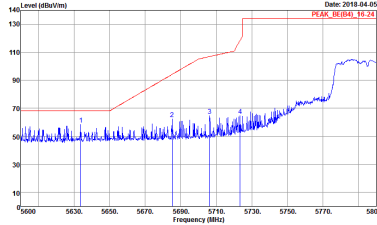
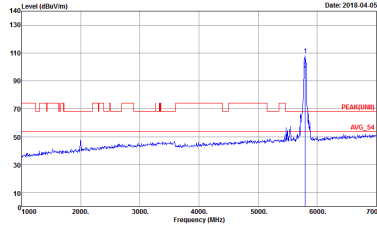
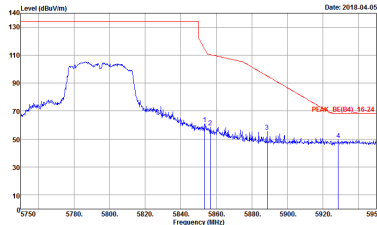
Band 4 5725~5850MHz
WIFI 802.11ac VHT40 (Band Edge @ 3m)

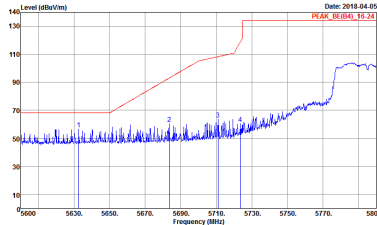
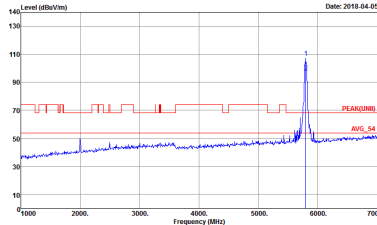
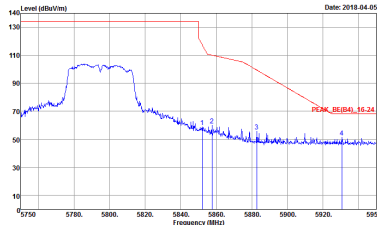
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH151 5755MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1328 HORIZONTAL Detector : Peak Project : 773112-01 Mode : 32	 Site : 03CH12-HY Condition : PEAK(UNIT) 3m HORN_9120D_1328 HORIZONTAL Detector : Peak Project : 773112-01 Mode : 32
Peak	 Site : 03CH12-HY Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1328 HORIZONTAL Detector : Peak Project : 773112-01 Mode : 32	Left blank



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH151 5755MHz	
1+2	Vertical	Fundamental
Peak	Site : 03CH12-HY Condition : PEAK_BE(04)_16-24 3m HORN_9120D_1328 VERTICAL Detector : RBW:3000.000kHz VBW:3000.000kHz SWT:Auto Project : 773112-01 Mode : 32	Site : 03CH12-HY Condition : PEAK(00B) 3m HORN_9120D_1328 VERTICAL Detector : RBW:3000.000kHz VBW:3000.000kHz SWT:Auto Project : 773112-01 Mode : 32
Peak	Site : 03CH12-HY Condition : PEAK_BE(04)_16-24 3m HORN_9120D_1328 VERTICAL Detector : RBW:3000.000kHz VBW:3000.000kHz SWT:Auto Project : 773112-01 Mode : 32	Left blank

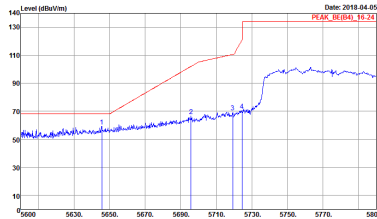
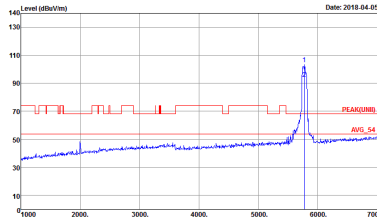
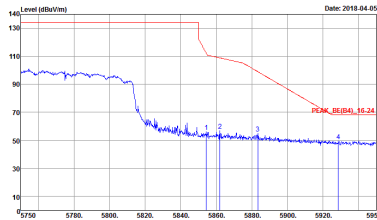


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH159 5795MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE(04)_16-24 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:3000.000kHz VBW:3000.000kHz SWT:Auto Project : 773112-01 Mode : 36	 Site : 03CH12-HY Condition : PEAK_FUND(04)_16-24 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:3000.000kHz VBW:3000.000kHz SWT:Auto Project : 773112-01 Mode : 36
Peak	 Site : 03CH12-HY Condition : PEAK_BE(04)_16-24 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:3000.000kHz VBW:3000.000kHz SWT:Auto Project : 773112-01 Mode : 36	Left blank

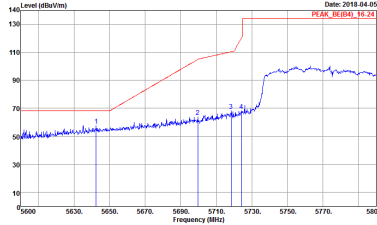
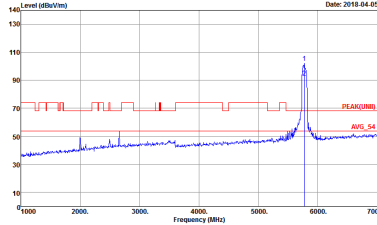
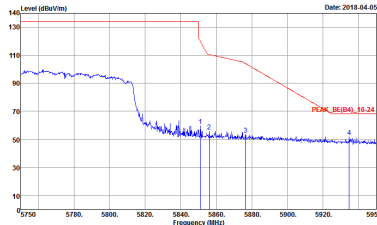
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH159 5795MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1328 VERTICAL Detector : RBW:3000.0000Hz VBW:3000.0000Hz SWT:Auto Project : 773112-01 Mode : 36	 Site : 03CH12-HY Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1328 VERTICAL Detector : RBW:3000.0000Hz VBW:3000.0000Hz SWT:Auto Project : 773112-01 Mode : 36
Peak	 Site : 03CH12-HY Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1328 VERTICAL Detector : RBW:3000.0000Hz VBW:3000.0000Hz SWT:Auto Project : 773112-01 Mode : 36	Left blank



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

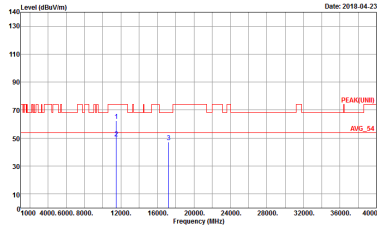
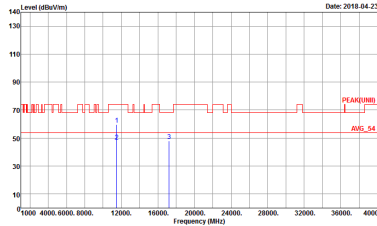
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH155 5775MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1328 HORIZONTAL Detector : Peak Project : 773112-01 Mode : 33	 Site : 03CH12-HY Condition : PEAK(UNIT) 3m HORN_9120D_1328 HORIZONTAL Detector : Peak Project : 773112-01 Mode : 33
Peak	 Site : 03CH12-HY Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1328 HORIZONTAL Detector : Peak Project : 773112-01 Mode : 33	Left blank



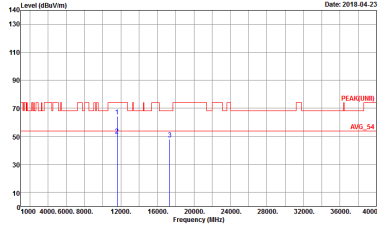
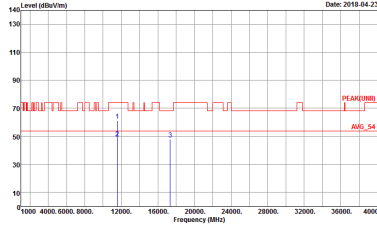
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH155 5775MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE(04)_15-24 3m HORN_9120D_1328 VERTICAL Detector : RBW:3000.000kHz VBW:3000.000kHz SWT:Auto Project : 773112-01 Mode : 33	 Site : 03CH12-HY Condition : PEAK(00B) 3m HORN_9120D_1328 VERTICAL Detector : RBW:3000.000kHz VBW:3000.000kHz SWT:Auto Project : 773112-01 Mode : 33
Peak	 Site : 03CH12-HY Condition : PEAK_BE(04)_15-24 3m HORN_9120D_1328 VERTICAL Detector : RBW:3000.000kHz VBW:3000.000kHz SWT:Auto Project : 773112-01 Mode : 33	Left blank



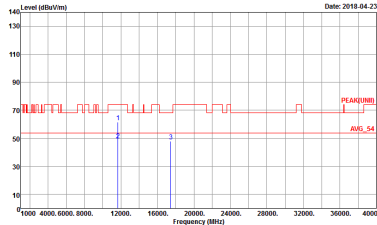
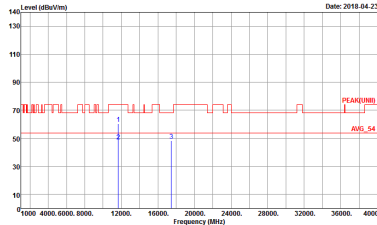
Band 4 - 5725~5850MHz
WIFI 802.11a (Harmonic @ 3m)

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH149 5745MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH12-HY Condition : PEAK(UNIT) 3m HORN_9120D_1328 HORIZONTAL Detector : Peak Project : 773112-03 Mode : 47	 Site : 03CH12-HY Condition : PEAK(UNIT) 3m HORN_9120D_1328 VERTICAL Detector : Peak Project : 773112-03 Mode : 47



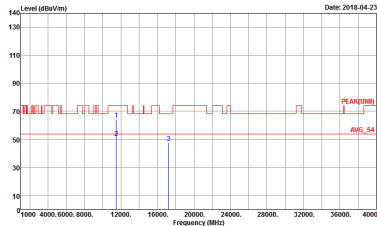
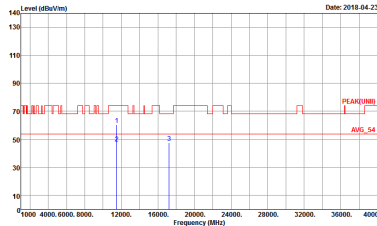
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH157 5785MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH12-1HY Condition : (PEAK(UNIT)) 3m HORN_9120D_1328 HORIZONTAL Detector : Peak Project : 773112-03 Mode : 48 Setting : 11	 Site : 03CH12-1HY Condition : (PEAK(UNIT)) 3m HORN_9120D_1328 VERTICAL Detector : Peak Project : 773112-03 Mode : 48 Setting : 11



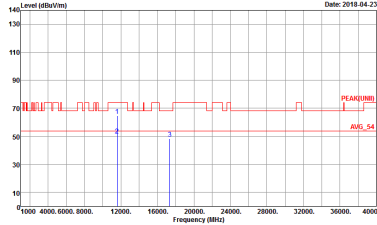
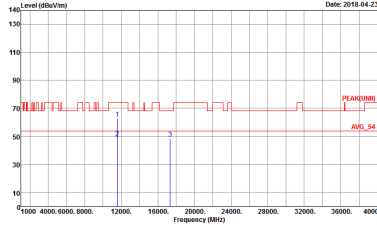
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH165 5825MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH12-1HY Condition : (PEAK(UNIT)) 3m HORN_9120D_1328 HORIZONTAL Detector : Peak Project : 773112-03 Mode : -49	 Site : 03CH12-1HY Condition : (PEAK(UNIT)) 3m HORN_9120D_1328 VERTICAL Detector : Peak Project : 773112-03 Mode : -49



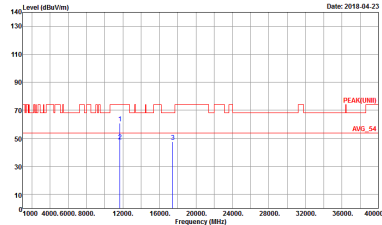
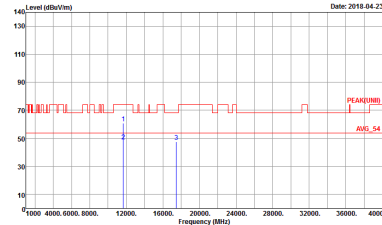
Band 4 5725~5850MHz
WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11n HT20 CH149 5745MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH12-HY Condition : PEAK(UNIT) 3m HORN_9120D_1328 HORIZONTAL Detector : Peak Project : 773112-03 Mode : 50	 Site : 03CH12-HY Condition : PEAK(UNIT) 3m HORN_9120D_1328 VERTICAL Detector : Peak Project : 773112-03 Mode : 50



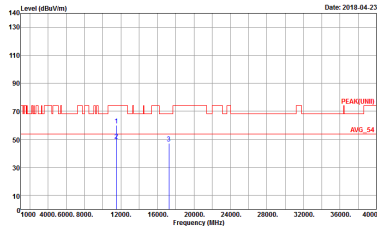
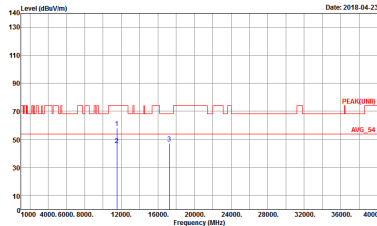
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11n HT20 CH157 5785MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH12-1HY Condition : (PEAK(UNIT)) 3m HORN_9120D_1328 HORIZONTAL Detector : Peak Project : 773112-03 Mode : 51 Setting : 12	 Site : 03CH12-1HY Condition : (PEAK(UNIT)) 3m HORN_9120D_1328 VERTICAL Detector : Peak Project : 773112-03 Mode : 51 Setting : 12



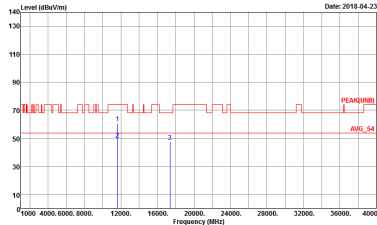
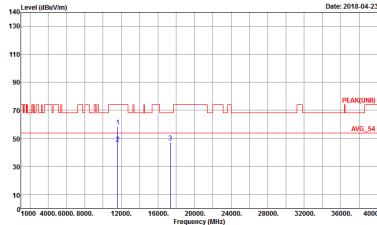
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11n HT20 CH165 5825MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH12-1HY Condition : (PEAK(UNIT)) 3m HORN_9120D_1328 HORIZONTAL Detector : Peak Project : 773112-03 Mode : 52	 Site : 03CH12-1HY Condition : (PEAK(UNIT)) 3m HORN_9120D_1328 VERTICAL Detector : Peak Project : 773112-03 Mode : 52



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

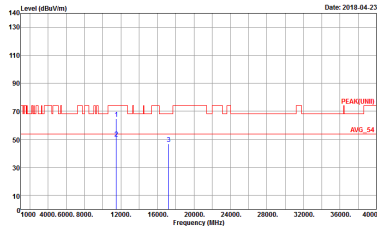
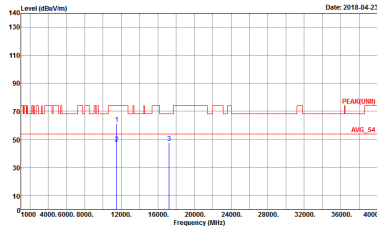
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11n HT40 CH151 5755MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH12-HY Condition : PEAK(UNIT) 3m HORN_9120D_1328 HORIZONTAL Detector : Peak Project : 773112-03 Mode : 56	 Site : 03CH12-HY Condition : PEAK(UNIT) 3m HORN_9120D_1328 VERTICAL Detector : Peak Project : 773112-03 Mode : 56



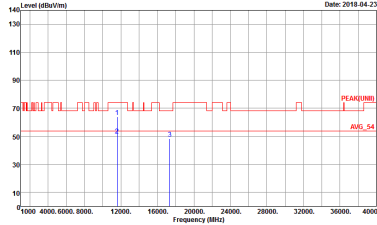
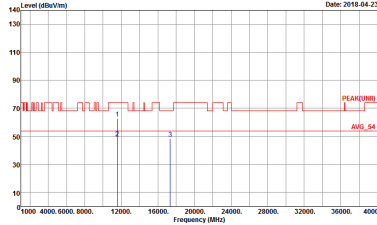
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11n HT40 CH159 5795MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH12-1HY Condition : (PEAK(UNIT)) 3m HORN_9120D_1328 HORIZONTAL Detector : Peak Project : 773112-03 Mode : -57	 Site : 03CH12-1HY Condition : (PEAK(UNIT)) 3m HORN_9120D_1328 VERTICAL Detector : Peak Project : 773112-03 Mode : -57



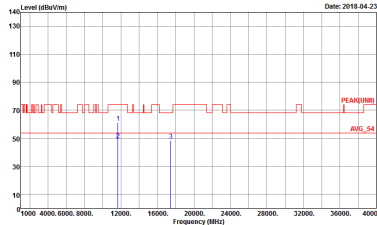
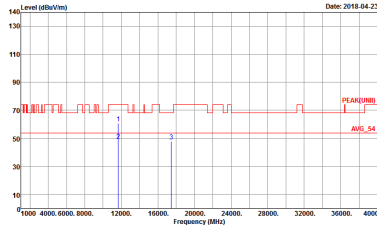
Band 4 5725~5850MHz
WIFI 802.11ac VHT20 (Harmonic @ 3m)

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ac VHT20 CH149 5745MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH12-HY Condition : PEAK(UNIT) 3m HORN_9120D_1328 HORIZONTAL Detector : Peak Project : 773112-03 Mode : 53	 Site : 03CH12-HY Condition : PEAK(UNIT) 3m HORN_9120D_1328 VERTICAL Detector : Peak Project : 773112-03 Mode : 53



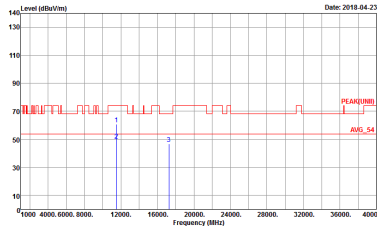
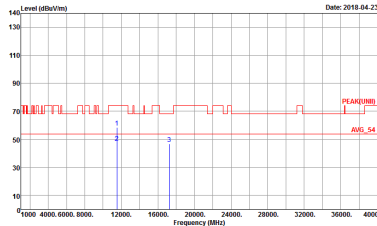
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ac VHT20 CH157 5785MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH12-1HY Condition : (PEAK(UNIT)) 3m HORN_9120D_1328 HORIZONTAL Detector : Peak Project : 773112-03 Mode : 54 Setting : 11.5	 Site : 03CH12-1HY Condition : (PEAK(UNIT)) 3m HORN_9120D_1328 VERTICAL Detector : Peak Project : 773112-03 Mode : 54 Setting : 11.5



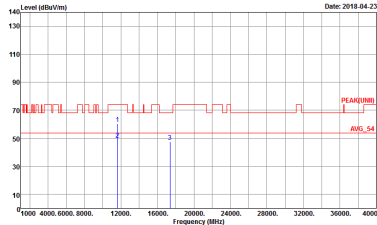
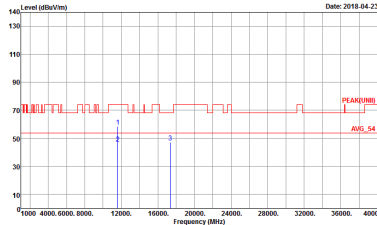
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ac VHT20 CH165 5825MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH12-1HY Condition : (PEAK(UNIT)) 3m HORN_9120D_1328 HORIZONTAL Detector : Peak Project : 773112-03 Mode : 55	 Site : 03CH12-1HY Condition : (PEAK(UNIT)) 3m HORN_9120D_1328 VERTICAL Detector : Peak Project : 773112-03 Mode : 55



Band 4 5725~5850MHz
WIFI 802.11ac VHT40 (Harmonic @ 3m)

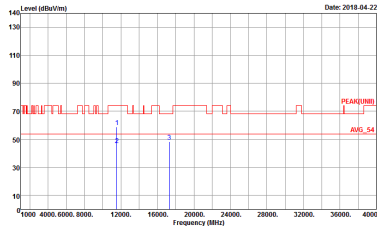
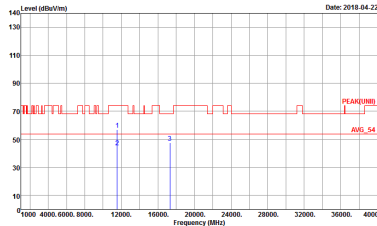
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ac VHT40 CH151 5755MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH12-HY Condition : PEAK(UNIT) 3m HORN_9120D_1328 HORIZONTAL Detector : Peak Project : 773112-03 Mode : 58	 Site : 03CH12-HY Condition : PEAK(UNIT) 3m HORN_9120D_1328 VERTICAL Detector : Peak Project : 773112-03 Mode : 58



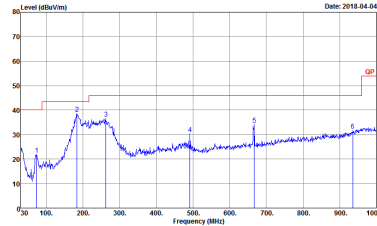
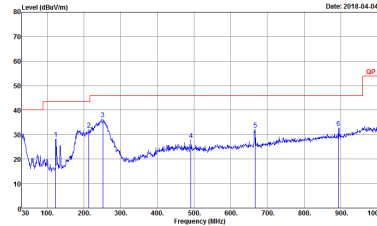
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ac VHT40 CH159 5795MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH12-1HY Condition : (PEAK)UNIT) 3m HORN_9120D_1328 HORIZONTAL Detector : Peak Project : 773112-03 Mode : 59	 Site : 03CH12-1HY Condition : (PEAK)UNIT) 3m HORN_9120D_1328 VERTICAL Detector : Peak Project : 773112-03 Mode : 59



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 : 03CH12-HY Condition : PEAK(UNIT) 3m HORN_9120D_1328 HORIZONTAL Detector : Peak Project : 773112-03 Mode : 60	 Site : 03CH12-HY Condition : PEAK(UNIT) 3m HORN_9120D_1328 VERTICAL Detector : Peak Project : 773112-03 Mode : 60

Emission below 1GHz
5GHz WIFI 802.11a (LF)

WIFI	5GHz 5725~5850MHz	
ANT	802.11a LF	
1+2	Horizontal	Vertical
QP / Peak	 Site : 03CH12-HY Condition : QP 3m BTL06_6111D_35414 HORIZONTAL Detector : Peak Project : 773112-01 Mode : 40	 Site : 03CH12-HY Condition : QP 3m BTL06_6111D_35414 VERTICAL Detector : Peak Project : 773112-01 Mode : 40

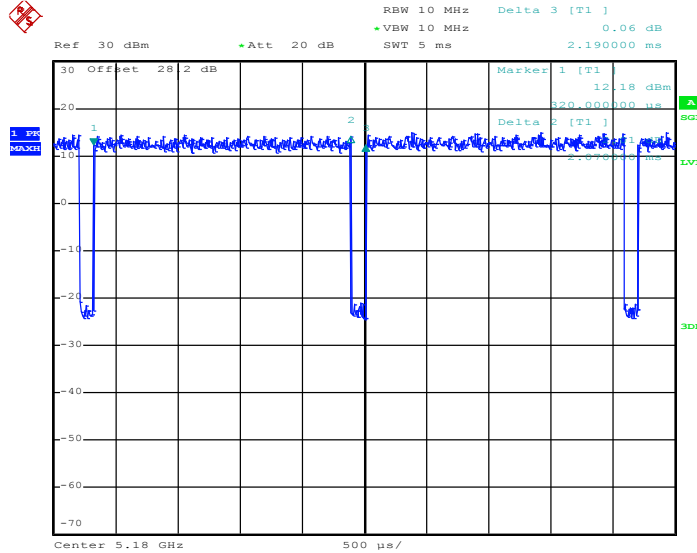
Appendix D. Duty Cycle Plots

Antenna	Band	Duty Cycle(%)	T(us)	1/T(kHz)	VBW Setting	Duty Factor(dB)
1+2	802.11a for Ant. 1	94.52	2070	0.48	1kHz	0.24
1+2	802.11a for Ant. 2	94.52	2070	0.48	1kHz	0.24
1+2	5GHz 802.11n HT20 for Ant. 1	94.61	1930	0.52	1kHz	0.24
1+2	5GHz 802.11n HT20 for Ant. 2	94.61	1930	0.52	1kHz	0.24
1+2	5GHz 802.11n HT40 for Ant. 1	88.79	950	1.05	3kHz	0.52
1+2	5GHz 802.11n HT40 for Ant. 2	89.62	950	1.05	3kHz	0.48
1+2	5GHz 802.11ac VHT20 for Ant. 1	94.63	1940	0.52	1kHz	0.24
1+2	5GHz 802.11ac VHT20 for Ant. 2	94.17	1940.00	0.52	1kHz	0.26
1+2	5GHz 802.11ac VHT40 for Ant. 1	89.72	960	1.04	3kHz	0.47
1+2	5GHz 802.11ac VHT40 for Ant. 2	89.62	950	1.05	3kHz	0.48
1+2	5GHz 802.11ac VHT80 for Ant. 1	88.89	880	1.14	3kHz	0.51
1+2	5GHz 802.11ac VHT80 for Ant. 2	88.78	870	1.15	3kHz	0.52



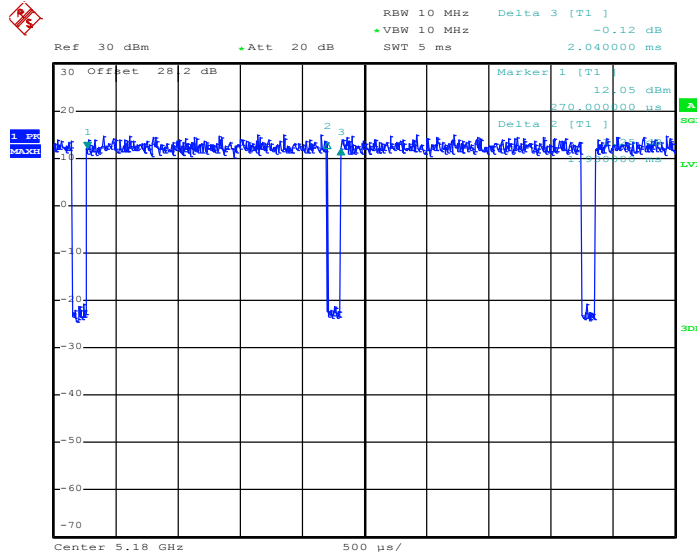
MIMO<Ant. 1>

802.11a

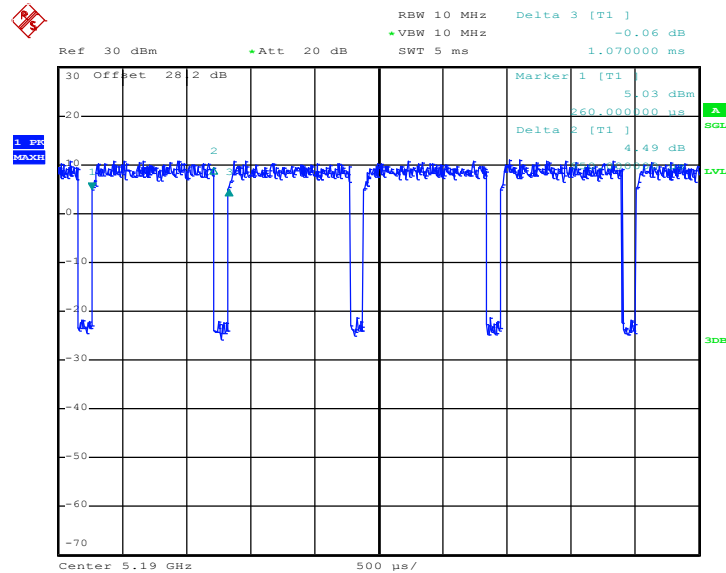


Date: 28.MAR.2018 17:56:38

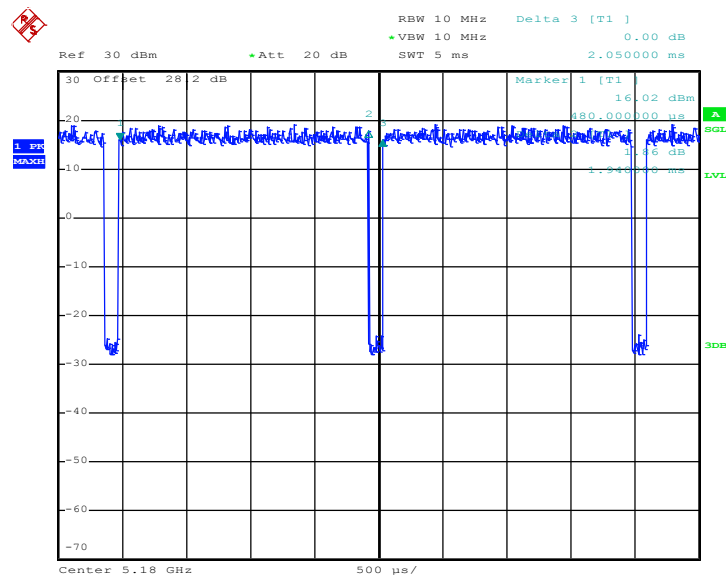
802.11n HT20



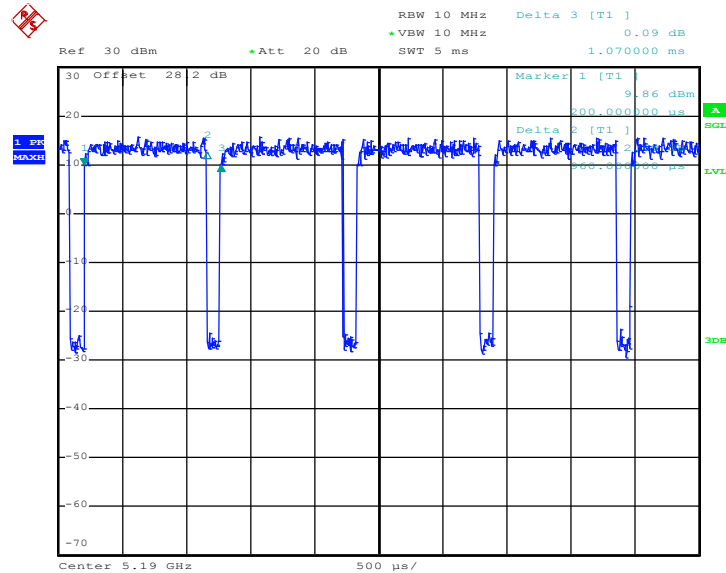
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802.11n HT40


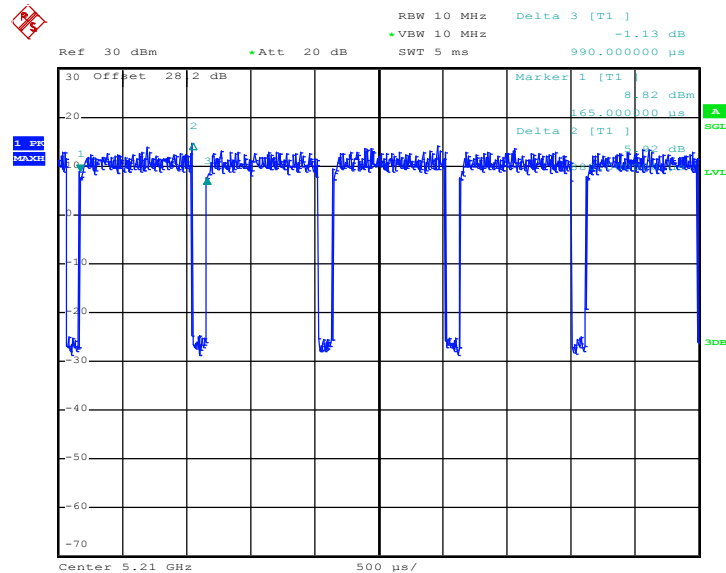
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802.11ac VHT20


Date: 20.MAR.2018 13:46:42

802.11ac VHT40


Date: 20.MAR.2018 14:08:01

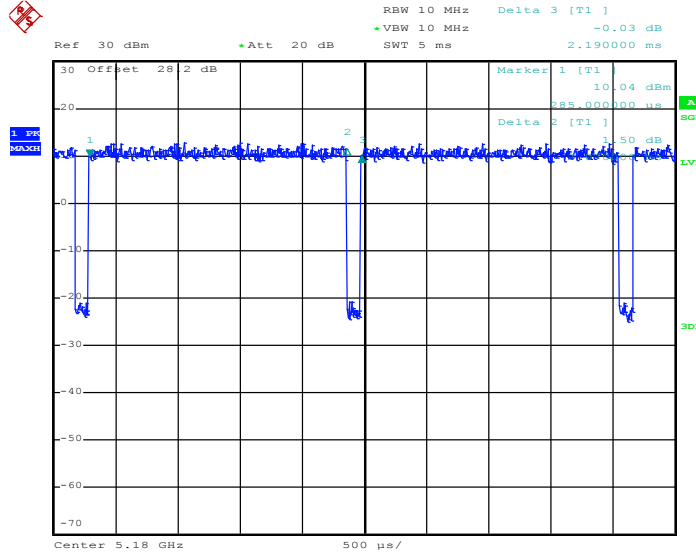
802.11ac VHT80


Date: 20.MAR.2018 14:28:07



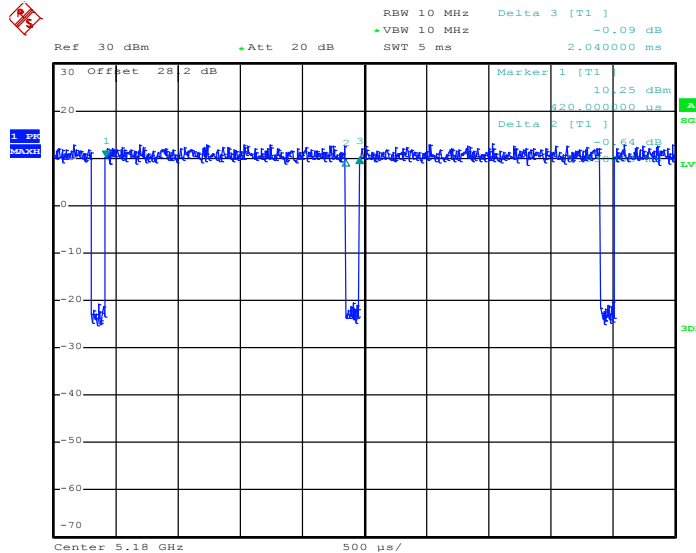
MIMO<Ant. 2>

802.11a



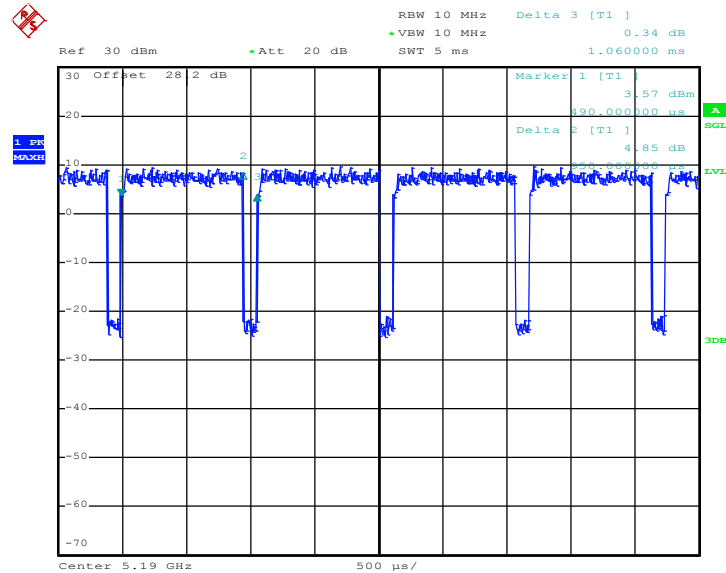
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802.11n HT20



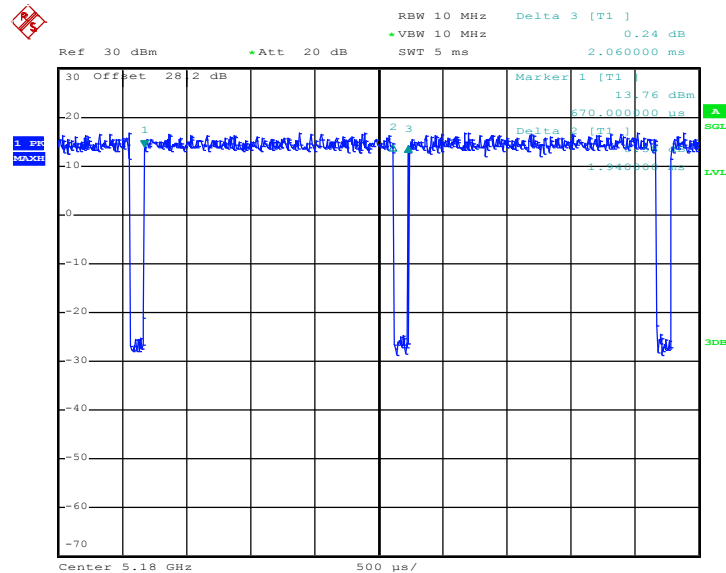
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802.11n HT40



Date: 28.MAR.2018 18:44:23

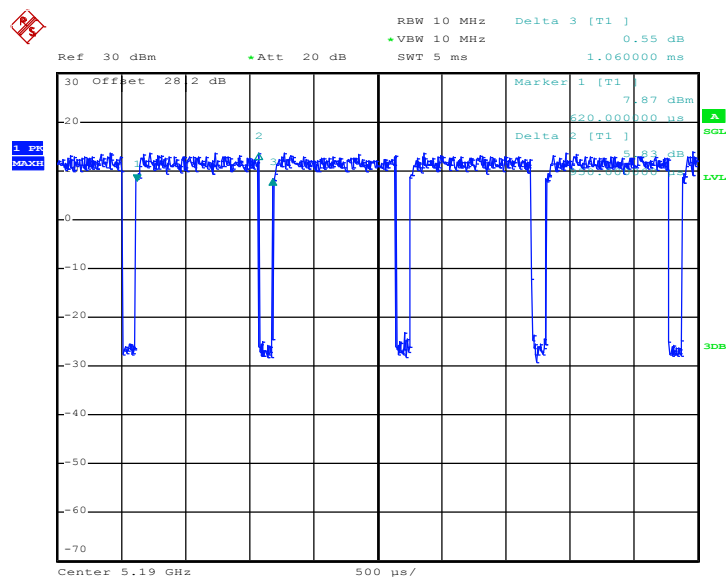
802.11ac VHT20



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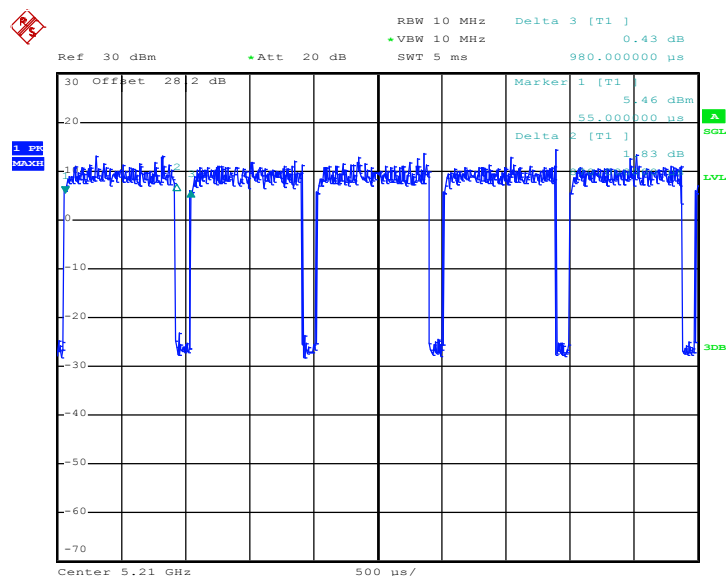


802.11ac VHT40



Date: 20.MAR.2018 14:08:53

802.11ac VHT80



Date: 20.MAR.2018 14:30:38