

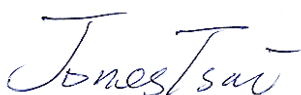
FCC CO-LOCATION RADIO TEST REPORT

FCC ID : MSQI001D
Equipment : ASUS Phone(Mobile Phone)
Brand Name : ASUS
Model Name : ASUS_I001D
ASUS_I001DC
Applicant : ASUSTeK COMPUTER INC.
4F, No. 150, LI-TE RD., PEITOU, TAIPEI, TAIWAN
Manufacturer : Guangdong Enok Communication Co., Ltd.
No. 137, 139, Lixiang Road., Songmushan
Village, Dalang Town, Dongguan City,
Guangdong Province, China
Standard : FCC Part 15 Subpart E §15.407

The product was received on Mar. 13, 2019 and testing was started from May 22, 2019 and completed on Jun. 27, 2019. We, SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, 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
FR931316G	01	Initial issue of report	Jul. 08, 2019

Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.1	15.407(b)	Unwanted Emissions	Pass	Under limit 3.71 dB at 2483.550 MHz
3.2	15.203 15.407(a)	Antenna Requirement	Pass	-

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

Reviewed by: Wii Chang

Report Producer: Maggie Chiang

1 General Description

1.1 Product Feature of Equipment Under Test

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

Product Specification subjective to this standard	
Antenna Type	WWAN: PIFA Antenna WLAN <Ant. 0>: PIFA Antenna <Ant. 1>: PIFA Antenna <Ant. 2>: PIFA Antenna <Ant. 3>: PIFA Antenna Bluetooth: PIFA Antenna GPS / Glonass / BDS / Galileo: PIFA Antenna NFC: Loop Antenna FM: Using Earphone as Antenna

<Sample Information>

Sample	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5
Confi	8G/256GB	12G/512GB	12G/512GB	12G/128GB	12G/256GB
LCD+ Touch module	TIANMA/TA066VVH M01-00 ON CELL	TIANMA/TA066VVH M01-00 ON CELL	TIANMA/TA066VVH M01-00 ON CELL	TIANMA/TA066VVH M01-00 ON CELL	TM/TA066VVHM01-00 2.0 ON CELL
Front Camera 24M	AZUREWAVE/AM-9 BF8N01-A	SUNWIN/SWCG572 Y0DAB-VA	AZUREWAVE/AM-9 BF8N01-A	SUNWIN/SWCG572Y 0DAB-VA	SUNWIN/SWCG572 Y0DAB-VA
Rear Camera 48M	OFILM/OSS1588	LUXVISIONS/9BAL0 2P3	OFILM/OSS1588	PRIMAX/50-704J1AS C8	LUXVISIONS/9BAL0 2P3
Finger print	ACE TW/9105-260002101	ACE TW/9105-260002101	ACE TW/9105-260002101	ACE TW/9105-260002101	ACE TW/9105-260002101
BATT	SCUD/C11P1901	SCUD/C11P1901	SCUD/C11P1901	SCUD/C11P1901	SCUD/C11P1901
CPU	QUALCOMM 893MPSP/SM-8150-1-893BMPSP-TR-03-0-AB	QUALCOMM 893MPSP/SM-8150-1-893BMPSP-TR-03-0-AB	QUALCOMM 893MPSP/SM-8150-1-893BMPSP-TR-03-0-AB	QUALCOMM 893MPSP/SM-8150-1-MPSP893-TR-03-0-AC	QUALCOMM 893MPSP/SM-8150-5-MPSP893-TR-03-0-AC
DDR	SAMSUNG/K3UH7H 70AM-AGCL	SAMSUNG/K3UHAH A0AM-AGCL	SAMSUNG/K3UHAH A0AM-AGCL	SAMSUNG/K3UHAH A0AM-AGCL	SAMSUNG/K3UHAH A0AM-AGCL
UFS	Samsung/KLUEG8U 1EA-B0C1	Samsung/KLUFG8R 1EM-B0C1	Samsung/KLUFG8R 1EM-B0C1	SAMSUNG KLUDG4UHDB-B2D1	HYNIX/H28S9O302 BMR

1.2 Modification of EUT

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

1.3 Testing Location

Test Site	SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory
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.
	03CH16-HY

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

FCC Designation No. TW0007

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 414788 D01 Radiated Test Site v01r01.
- ♦ FCC KDB 662911 D01 Multiple Transmitter Output v02r01.
- ♦ FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v05r02
- ♦ ANSI C63.10-2013

Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

2 Test Configuration of Equipment Under Test

The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: 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 (Calling Mode: Y Plane with Bottom Port for Bluetooth + WLAN (5GHz), Bluetooth - LE + WLAN (5GHz), and WLAN (2.4GHz) + (5GHz) ; Camera Mode: Z Plane with Bottom Port for Bluetooth + WLAN (5GHz), Z Plane with Side Port for Bluetooth - LE + WLAN (5GHz), and Y Plane with Bottom Port for WLAN (2.4GHz) + (5GHz) ; Gaming Mode: X Plane with Bottom Port for Bluetooth + WLAN (5GHz) and Bluetooth - LE + WLAN (5GHz) and Y Plane with Bottom Port for WLAN (2.4GHz) + WLAN (5GHz) were recorded in this report.

2.1 Carrier Frequency and Channel

2400-2483.5 MHz Bluetooth EDR		2400-2483.5 MHz Bluetooth LE	
Channel	Freq. (MHz)	Channel	Freq. (MHz)
78	2480	39	2480

5150-5250 MHz 802.11ac		2400-2483.5 MHz 802.11g HT40	
Channel	Freq. (MHz)	Channel	Freq. (MHz)
42	5210	09	2452

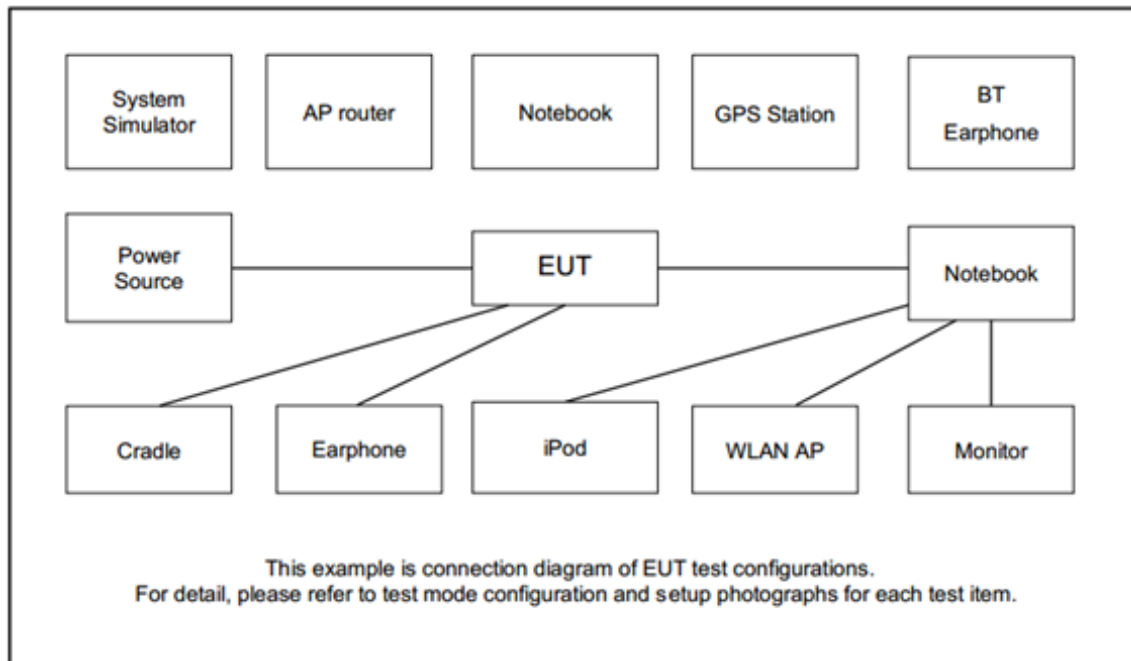
2.2 Test Mode

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

Modulation	Data Rate
Bluetooth EDR + 5GHz 802.11ac VHT80	1 Mbps + MCS0
Bluetooth - LE + 5GHz 802.11ac VHT80	2 Mbps + MCS0
2.4 GHz 11g HT40 + 5GHz 802.11ac VHT80	MCS0 + MCS0

Remark: All test items were performed with Earphone 1 and Sample 3.

2.3 Connection Diagram of Test System



2.4 EUT Operation Test Setup

The RF test items, utility “QRCT Version3.0.271.0” 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.

3 Test Result

3.1 Unwanted Emissions Measurement

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

3.1.1 Limit of Unwanted Emissions

- (1) 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.

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

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

- (2) 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).

3.1.2 Measuring Instruments

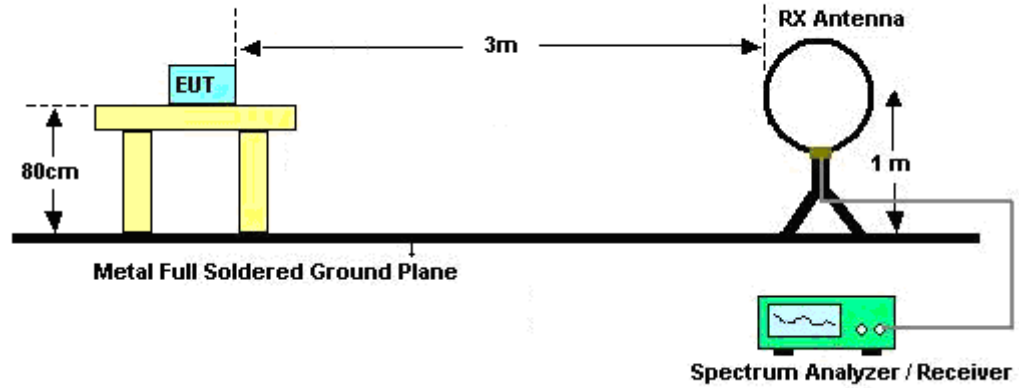
See list of measuring equipment of this test report.

3.1.3 Test Procedures

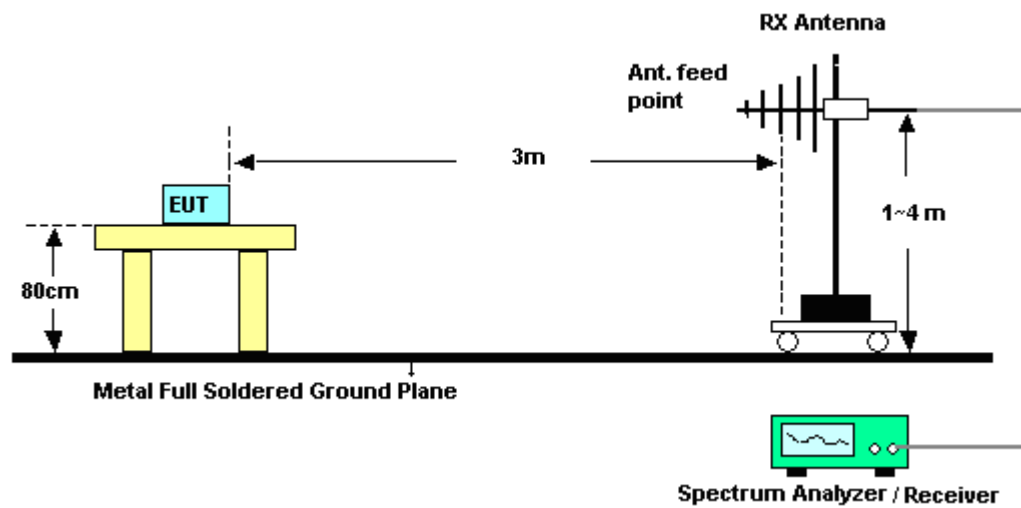
1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules **v02r01**.
Section G) Unwanted emissions measurement.
 - (1) Procedure for Unwanted Emissions Measurements Below 1000MHz
 - RBW = 120 kHz
 - VBW = 300 kHz
 - Detector = Peak
 - Trace mode = max hold
 - (2) Procedure for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

3.1.4 Test Setup

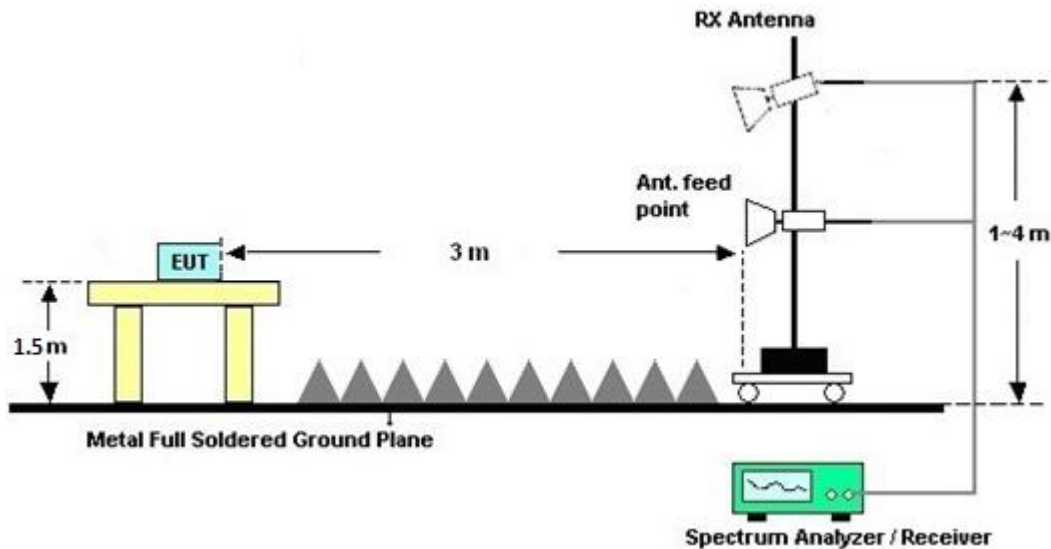
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



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

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

There is a comparison data of both open-field test site and alternative test site - semi-Anechoic chamber according to 414788 D01 Radiated Test Site v01r01, and the result came out very similar.

3.1.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix A and B.

3.1.7 Duty Cycle

Please refer to Appendix C.

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

Please refer to Appendix A and B.



3.2 Antenna Requirements

3.2.1 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.

3.2.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.2.3 Antenna Gain

The antenna peak gain of EUT is less than 6 dBi. Therefore, it is not necessary to reduce maximum peak output power limit.



4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100315	9 kHz~30 MHz	Jan. 11, 2019	May 22, 2019~ Jun. 27, 2019	Jan. 10, 2020	Radiation (03CH16-HY)
Bilog Antenna	TESEQ	CBL6111D&008 02N1D01N-06	47020&06	30MHz to 1GHz	Oct. 13, 2018	May 22, 2019~ Jun. 27, 2019	Oct. 12, 2019	Radiation (03CH16-HY)
Horn Antenna	SCHWARZBE CK	BBHA 9120 D	9120D-1522	1G~18GHz	Sep. 07, 2018	May 22, 2019~ Jun. 27, 2019	Sep. 06, 2019	Radiation (03CH16-HY)
SHF-EHF Horn Antenna	SCHWARZBE CK	BBHA 9170	BBHA9170251	18GHz ~ 40GHz	Nov. 20, 2018	May 22, 2019~ Jun. 27, 2019	Nov. 19, 2019	Radiation (03CH16-HY)
Amplifier	SONOMA	310N	371607	9kHz~1000MHz	Oct. 02, 2018	May 22, 2019~ Jun. 27, 2019	Oct. 01, 2019	Radiation (03CH16-HY)
Preamplifier	Jet-Power	JPA0118-55-303	17100018000 55007	1GHz~18GHz	Apr. 01, 2019	May 22, 2019~ Jun. 27, 2019	Mar. 31, 2020	Radiation (03CH16-HY)
Preamplifier	Keysight	83017A	MY53270264	1GHz~26.5GHz	Dec. 12, 2018	May 22, 2019~ Jun. 27, 2019	Dec.11, 2019	Radiation (03CH16-HY)
Amplifier	MITEQ	TTA1840-35-HG	1871923	18GHz~40GHz, VSWR : 2.5:1 max	Jul. 16, 2018	May 22, 2019~ Jun. 27, 2019	Jul. 15, 2019	Radiation (03CH16-HY)
EMI Test Receiver	Keysight	N9038A (MXE)	MY57290111	3Hz~26.5GHz	Nov. 29, 2018	May 22, 2019~ Jun. 27, 2019	Nov. 28, 2019	Radiation (03CH16-HY)
Spectrum Analyzer	Agilent	N9010A	MY54200486	10Hz~44GHz	Oct. 19, 2018	May 22, 2019~ Jun. 27, 2019	Oct. 18, 2019	Radiation (03CH16-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 126E	MY1082/26EA	30M-18G	Oct. 15, 2018	May 22, 2019~ Jun. 27, 2019	Oct. 14, 2019	Radiation (03CH16-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY15539/4	30M-18G	Feb. 26, 2019	May 22, 2019~ Jun. 27, 2019	Feb. 25, 2020	Radiation (03CH16-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY36980/4	30M~18GHz	Apr. 15, 2019	May 22, 2019~ Jun. 27, 2019	Apr. 14, 2020	Radiation (03CH16-HY)
Software	Audix	E3 6.2009-8-24	RK-001136	N/A	N/A	May 22, 2019~ Jun. 27, 2019	N/A	Radiation (03CH16-HY)



5 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.9
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Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.8
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Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	3.9
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Appendix A. Radiated Spurious Emission

Test Engineer :	Jacky Hung, Austin Li, and CR Liao	Temperature :	20~25°C
		Relative Humidity :	50~60%

<Calling Mode>

Band 1 5150~5250MHz (Band edge @ 3m)

WIFI Ant. Simultaneously	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)
BT(1M) CH78 2480 MHz Ant 0 + 802.11ac VHT80 CH42 5210 MHz Ant 3		5139.88	55.93	-18.07	74	39.8	32.63	13.22	29.72	121	4	P	H
		5147.94	47.47	-6.53	54	31.37	32.62	13.2	29.72	121	4	A	H
	*	5210	99.44	-	-	83.54	32.55	13.07	29.72	121	4	P	H
	*	5210	91.46	-	-	75.56	32.55	13.07	29.72	121	4	A	H
		5453.28	53.95	-20.05	74	38.29	32.26	13.14	29.74	121	4	P	H
		5365.64	44.45	-9.55	54	28.85	32.36	12.97	29.73	121	4	A	H
		5145.6	55.17	-18.83	74	39.05	32.63	13.21	29.72	318	13	P	V
		5149.5	46.08	-7.92	54	29.98	32.62	13.2	29.72	318	13	A	V
	*	5210	97.24	-	-	81.34	32.55	13.07	29.72	318	13	P	V
	*	5210	89.31	-	-	73.41	32.55	13.07	29.72	318	13	A	V
		5398.4	54	-20	74	38.46	32.32	12.95	29.73	318	13	P	V
		5411.56	44.39	-9.61	54	28.82	32.31	12.99	29.73	318	13	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz (Band edge @ 3m)

WIFI Ant. Simultaneously	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)
BT(1M) CH78 2480 MHz Ant 0 + 802.11ac VHT80 CH42 5210 MHz Ant 3	*	2480	103.86	-	-	98.01	27.65	8.46	30.26	188	31	P	H
	*	2480	79.1	-	-	-	-	-	-	-	-	A	H
		2483.52	52.47	-21.53	74	46.6	27.66	8.46	30.25	188	31	P	H
		2483.52	27.71	-26.29	54	-	-	-	-	-	-	A	H
													H
													H
													H
													H
	*	2480	101.42	-	-	95.57	27.65	8.46	30.26	333	82	P	V
	*	2480	76.66	-	-	-	-	-	-	-	-	A	V
		2483.88	47.59	-26.41	74	41.72	27.66	8.46	30.25	333	82	P	V
		2483.88	22.83	-31.17	54	-	-	-	-	-	-	A	V
													V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz and Band 1 5150~5250MHz (Harmonic @ 3m)

WIFI Ant. Simultaneously	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)
BT(1M) CH78 2480 MHz Ant 0 + 802.11ac VHT80 CH42 5210 MHz Ant 3		4960	57.67	-16.33	74	39.36	32.72	15.3	29.71	100	0	P	H
		4960	32.91	-21.09	54	-	-	-	-	-	-	A	H
		7440	45.18	-28.82	74	49.31	37.42	15.78	57.33	100	0	P	H
		7440	20.42	-33.58	54	-	-	-	-	-	-	A	H
		10420	45.25	-22.95	68.2	47.05	39.99	17.53	59.32	100	0	P	H
		15630	43.05	-30.95	74	43.52	37.9	21.53	59.9	100	0	P	H
		4960	58.21	-15.79	74	39.9	32.72	15.3	29.71	100	0	P	V
		4960	33.45	-20.55	54	-	-	-	-	-	-	A	V
		7440	44.9	-29.1	74	49.03	37.42	15.78	57.33	100	0	P	V
		7440	20.14	-33.86	54	-	-	-	-	-	-	A	V
		10420	44.99	-23.21	68.2	46.79	39.99	17.53	59.32	100	0	P	V
		15630	43.97	-30.03	74	44.44	37.9	21.53	59.9	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 1 5150~5250MHz (Band edge @ 3m)

WIFI Ant. Simultaneously	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)
BLE CH39 2480 MHz Ant 0 + 802.11ac VHT80 CH42 5210 MHz Ant 3		5018.46	55.8	-18.2	74	39.21	32.78	13.52	29.71	142	357	P	H
		5140.14	45.97	-8.03	54	29.84	32.63	13.22	29.72	142	357	A	H
	*	5210	99.02	-	-	83.12	32.55	13.07	29.72	142	357	P	H
	*	5210	91.12	-	-	75.22	32.55	13.07	29.72	142	357	A	H
		5436.48	53.72	-20.28	74	38.1	32.28	13.08	29.74	142	357	P	H
		5363.96	44.37	-9.63	54	28.77	32.36	12.97	29.73	142	357	A	H
		5067.34	55.37	-18.63	74	38.96	32.72	13.4	29.71	138	0	P	V
		5147.68	45.47	-8.53	54	29.36	32.62	13.21	29.72	138	0	A	V
	*	5210	97.63	-	-	81.73	32.55	13.07	29.72	138	0	P	V
	*	5210	89.47	-	-	73.57	32.55	13.07	29.72	138	0	A	V
		5356.12	53.31	-20.69	74	37.69	32.37	12.98	29.73	138	0	P	V
		5397.56	44.31	-9.69	54	28.77	32.32	12.95	29.73	138	0	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz (Band edge @ 3m)

WIFI Ant. Simultaneously	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)
BLE CH39 2480 MHz Ant 0 + 802.11ac VHT80 CH42 5210 MHz Ant 3	*	2480	103.11	-	-	87.34	27.65	18.38	30.26	100	300	P	H
	*	2480	101.14	-	-	85.37	27.65	18.38	30.26	100	300	A	H
		2491.48	56.05	-17.95	74	40.24	27.68	18.38	30.25	100	300	P	H
		2495.48	48.56	-5.44	54	32.73	27.69	18.39	30.25	100	300	A	H
													H
													H
													H
													H
	*	2480	97.99	-	-	82.22	27.65	18.38	30.26	377	21	P	V
	*	2480	96.78	-	-	81.01	27.65	18.38	30.26	377	21	A	V
		2484.56	57.28	-16.72	74	41.49	27.66	18.38	30.25	377	21	P	V
		2493.08	48.17	-5.83	54	32.35	27.68	18.39	30.25	377	21	A	V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz and Band 1 5150~5250MHz (Harmonic @ 3m)

WIFI Ant. Simultaneously	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)
BLE CH39 2480 MHz Ant 0 + 802.11ac VHT80 CH42 5210 MHz Ant 3		4960	59.12	-14.88	74	40.81	32.72	15.3	29.71	295	190	P	H
		4960	49.38	-4.62	54	31.07	32.72	15.3	29.71	295	190	A	H
		7440	45.47	-28.53	74	49.6	37.42	15.78	57.33	100	0	P	H
		10420	45.19	-23.01	68.2	46.99	39.99	17.53	59.32	100	0	P	H
		15630	42.58	-31.42	74	43.05	37.9	21.53	59.9	100	0	P	H
													H
													H
		4960	58.89	-15.11	74	40.58	32.72	15.3	29.71	100	4	P	V
		4960	49.63	-4.37	54	31.32	32.72	15.3	29.71	100	4	A	V
		7440	44.09	-29.91	74	48.22	37.42	15.78	57.33	100	0	P	V
		10420	44.9	-23.3	68.2	46.7	39.99	17.53	59.32	100	0	P	V
		15630	42.51	-31.49	74	42.98	37.9	21.53	59.9	100	0	P	V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 1 5150~5250MHz (Band edge @ 3m)

WIFI Ant. Simultaneously	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)
802.11g HT40 CH09 2452 MHz Ant 0 + 802.11ac VHT80 CH42 5210 MHz Ant 3		5145.6	57.23	-16.77	74	41.11	32.63	13.21	29.72	111	360	P	H
		5144.82	48.57	-5.43	54	32.45	32.63	13.21	29.72	111	360	A	H
	*	5210	102.02	-	-	86.12	32.55	13.07	29.72	111	360	P	H
	*	5210	93.22	-	-	77.32	32.55	13.07	29.72	111	360	A	H
		5427.24	54.02	-19.98	74	38.42	32.29	13.05	29.74	111	360	P	H
		5433.12	44.08	-9.92	54	28.47	32.28	13.07	29.74	111	360	A	H
		5145.6	55.15	-18.85	74	39.03	32.63	13.21	29.72	151	29	P	V
		5149.76	47.42	-6.58	54	31.32	32.62	13.2	29.72	151	29	A	V
	*	5210	97.88	-	-	81.98	32.55	13.07	29.72	151	29	P	V
	*	5210	90.37	-	-	74.47	32.55	13.07	29.72	151	29	A	V
		5385.8	53.01	-20.99	74	37.44	32.34	12.96	29.73	151	29	P	V
		5393.92	44.41	-9.59	54	28.86	32.33	12.95	29.73	151	29	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz (Band edge @ 3m)

WIFI Ant. Simultaneously	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)
802.11g HT40 CH09 2452 MHz Ant 0 + 802.11ac VHT80 CH42 5210 MHz Ant 3		2379.02	55.94	-18.06	74	40.54	27.39	18.3	30.29	215	20	P	H
		2389.52	46.1	-7.9	54	30.66	27.41	18.31	30.28	215	20	A	H
	*	2452	101.72	-	-	86.04	27.58	18.36	30.26	215	20	P	H
	*	2452	94.13	-	-	78.45	27.58	18.36	30.26	215	20	A	H
		2483.5	58.74	-15.26	74	42.95	27.66	18.38	30.25	215	20	P	H
		2483.55	50.29	-3.71	54	34.5	27.66	18.38	30.25	215	20	A	H
													H
													H
		2310.56	55.45	-18.55	74	40.35	27.21	18.2	30.31	245	99	P	V
		2381.4	46.12	-7.88	54	30.72	27.39	18.3	30.29	245	99	A	V
	*	2452	100.26	-	-	84.58	27.58	18.36	30.26	245	99	P	V
	*	2452	92.51	-	-	76.83	27.58	18.36	30.26	245	99	A	V
		2485.16	58.08	-15.92	74	42.29	27.66	18.38	30.25	245	99	P	V
		2483.69	48.93	-5.07	54	33.14	27.66	18.38	30.25	245	99	A	V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												


2.4GHz 2400~2483.5MHz and Band 1 5150~5250MHz (Harmonic @ 3m)

WIFI Ant. Simultaneously	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)
802.11g HT40 CH09 2452 MHz Ant 0 + 802.11ac VHT80 CH42 5210 MHz Ant 3		4904	58.79	-15.21	74	40.72	32.61	15.18	29.72	100	0	P	H
		4904	48.06	-5.94	54	29.99	32.61	15.18	29.72	100	0	A	H
		7356	45.4	-28.6	74	49.81	37.3	15.73	57.44	100	0	P	H
		10420	46.42	-21.78	68.2	48.22	39.99	17.53	59.32	100	0	P	H
		15630	42.79	-31.21	74	43.26	37.9	21.53	59.9	100	0	P	H
													H
													H
		4904	58.95	-15.05	74	40.88	32.61	15.18	29.72	249	360	P	V
		4904	47.99	-6.01	54	29.92	32.61	15.18	29.72	249	360	A	V
		7356	44.85	-29.15	74	49.26	37.3	15.73	57.44	100	0	P	V
		10420	45.15	-23.05	68.2	46.95	39.99	17.53	59.32	100	0	P	V
		15630	43.23	-30.77	74	43.7	37.9	21.53	59.9	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

2.4GHz 2400~2483.5MHz and Band 1 5150~5250MHz (LF @ 3m)

WIFI Ant. Simultaneously	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)
802.11g HT40 CH09 2452 MHz Ant 0 + 802.11ac VHT80 CH42 5210 MHz Ant 3		101.78	36.39	-7.11	43.5	51.56	16.13	1.07	32.37	100	0	P	H
		164.83	32.57	-10.93	43.5	47.37	15.99	1.57	32.36	-	-	P	H
		254.07	26.98	-19.02	46	37.99	19.09	2.29	32.39	-	-	P	H
		418	23.39	-22.61	46	30.13	22.57	3.2	32.51	-	-	P	H
		558.65	27.65	-18.35	46	30.48	26.17	3.64	32.64	-	-	P	H
		695.42	28.93	-17.07	46	30.88	26.5	4.09	32.54	-	-	P	H
													H
													H
		101.78	34.39	-9.11	43.5	49.56	16.13	1.07	32.37	100	0	P	V
		182.29	26.34	-17.16	43.5	42.09	14.95	1.65	32.35	-	-	P	V
		396.66	25.9	-20.1	46	33.54	21.67	3.19	32.5	-	-	P	V
		572.23	27.46	-18.54	46	30.67	25.74	3.7	32.65	-	-	P	V
		763.32	30.79	-15.21	46	30.5	28.23	4.48	32.42	-	-	P	V
		935.98	32.76	-13.24	46	29.32	30.29	4.62	31.47	-	-	P	V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against limit line.												



<Camera Mode>

Band 1 5150~5250MHz (Band edge @ 3m)

WIFI Ant. Simultaneously	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)
BT(1M) CH78 2480 MHz Ant 3 + 802.11ac VHT80 CH42 5210 MHz Ant 2		5052	55.51	-18.49	74	39.04	32.74	13.44	29.71	101	132	P	H
		5141.18	45.82	-8.18	54	29.69	32.63	13.22	29.72	101	132	A	H
	*	5210	97.97	-	-	82.07	32.55	13.07	29.72	101	132	P	H
	*	5210	89.91	-	-	74.01	32.55	13.07	29.72	101	132	A	H
		5365.08	54.39	-19.61	74	38.79	32.36	12.97	29.73	101	132	P	H
		5428.36	44.57	-9.43	54	28.97	32.29	13.05	29.74	101	132	A	H
		5028.34	54.63	-19.37	74	38.08	32.77	13.49	29.71	101	48	P	V
		5065.52	45.88	-8.12	54	29.47	32.72	13.4	29.71	101	48	A	V
	*	5210	98.92	-	-	83.02	32.55	13.07	29.72	101	48	P	V
	*	5210	90.61	-	-	74.71	32.55	13.07	29.72	101	48	A	V
		5370.12	54.02	-19.98	74	38.42	32.36	12.97	29.73	101	48	P	V
		5398.4	44.69	-9.31	54	29.15	32.32	12.95	29.73	101	48	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz (Band edge @ 3m)

WIFI Ant. Simultaneously	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)
BT(1M) CH78 2480 MHz Ant 3 + 802.11ac VHT80 CH42 5210 MHz Ant 2	*	2480	103.11	-	-	97.26	27.65	8.46	30.26	302	57	P	H
	*	2480	78.32	-	-	-	-	-	-	-	-	A	H
		2483.52	50.04	-23.96	74	44.17	27.66	8.46	30.25	302	57	P	H
		2483.52	25.25	-28.75	54	-	-	-	-	-	-	A	H
													H
													H
													H
													H
	*	2480	101.84	-	-	95.99	27.65	8.46	30.26	108	332	P	V
	*	2480	77.05	-	-	-	-	-	-	-	-	A	V
		2483.88	47.55	-26.45	74	41.68	27.66	8.46	30.25	108	332	P	V
		2483.88	22.76	-31.24	54	-	-	-	-	-	-	A	V
													V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz and Band 1 5150~5250MHz (Harmonic @ 3m)

WIFI Ant. Simultaneously	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)
BT(1M) CH78 2480 MHz Ant 3 + 802.11ac VHT80 CH42 5210 MHz Ant 2		4960	58.25	-15.75	74	39.94	32.72	15.3	29.71	100	0	P	H
		4960	33.46	-20.54	54	-	-	-	-	-	-	A	H
		7440	44.28	-29.72	74	48.41	37.42	15.78	57.33	100	0	P	H
		7440	19.49	-34.51	54	-	-	-	-	-	-	A	H
		10420	44.74	-23.46	68.2	46.54	39.99	17.53	59.32	100	0	P	H
		15630	42.34	-31.66	74	42.81	37.9	21.53	59.9	100	0	P	H
													H
		4960	58.07	-15.93	74	39.76	32.72	15.3	29.71	100	0	P	V
		4960	33.28	-20.72	54	-	-	-	-	-	-	A	V
		7440	44.51	-29.49	74	48.64	37.42	15.78	57.33	100	0	P	V
		7440	19.72	-34.28	54	-	-	-	-	-	-	A	V
		10420	44.42	-23.78	68.2	46.22	39.99	17.53	59.32	100	0	P	V
		15630	42.52	-31.48	74	42.99	37.9	21.53	59.9	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 1 5150~5250MHz (Band edge @ 3m)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
Simultaneously		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
BLE CH39 2480 MHz Ant 3 + 802.11ac VHT80 CH42 5210 MHz Ant 2		5031.72	55.74	-18.26	74	39.21	32.76	13.48	29.71	242	64	P	H
		5147.94	45.92	-8.08	54	29.82	32.62	13.2	29.72	242	64	A	H
	*	5210	99.08	-	-	83.18	32.55	13.07	29.72	242	64	P	H
	*	5210	90.89	-	-	74.99	32.55	13.07	29.72	242	64	A	H
		5393.64	54.16	-19.84	74	38.61	32.33	12.95	29.73	242	64	P	H
		5392.8	44.75	-9.25	54	29.2	32.33	12.95	29.73	242	64	A	H
		5138.58	55.58	-18.42	74	39.44	32.63	13.23	29.72	313	317	P	V
		5118.3	45.64	-8.36	54	29.42	32.66	13.28	29.72	313	317	A	V
	*	5210	96.06	-	-	80.16	32.55	13.07	29.72	313	317	P	V
	*	5210	88.64	-	-	72.74	32.55	13.07	29.72	313	317	A	V
		5428.64	53.97	-20.03	74	38.37	32.29	13.05	29.74	313	317	P	V
		5448.8	44.19	-9.81	54	28.55	32.26	13.12	29.74	313	317	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz (Band edge @ 3m)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
Simultaneously		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
BLE CH39 2480 MHz Ant 3 + 802.11ac VHT80 CH42 5210 MHz Ant 2	*	2480	101.75	-	-	85.98	27.65	18.38	30.26	300	63	P	H
	*	2480	100.44	-	-	84.67	27.65	18.38	30.26	300	63	A	H
		2495.16	57.61	-16.39	74	41.78	27.69	18.39	30.25	300	63	P	H
		2485.76	48.4	-5.6	54	32.61	27.66	18.38	30.25	300	63	A	H
													H
													H
													H
													H
	*	2480	100.24	-	-	84.47	27.65	18.38	30.26	109	354	P	V
	*	2480	99	-	-	83.23	27.65	18.38	30.26	109	354	A	V
		2490.96	56.43	-17.57	74	40.62	27.68	18.38	30.25	109	354	P	V
		2489.32	48.07	-5.93	54	32.27	27.67	18.38	30.25	109	354	A	V
													V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz and Band 1 5150~5250MHz (Harmonic @ 3m)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
Simultaneously		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
BLE CH39 2480 MHz Ant 3 + 802.11ac VHT80 CH42 5210 MHz Ant 2		4960	58.9	-15.1	74	40.59	32.72	15.3	29.71	100	360	P	H
		4960	49.01	-4.99	54	30.7	32.72	15.3	29.71	100	360	P	H
		7440	44.62	-29.38	74	48.75	37.42	15.78	57.33	100	0	P	H
		10420	44.42	-23.78	68.2	46.22	39.99	17.53	59.32	100	0	P	H
		15630	42.83	-31.17	74	43.3	37.9	21.53	59.9	100	0	P	H
													H
													H
		4960	58.28	-15.72	74	39.97	32.72	17.12	29.71	296	360	P	V
		4960	49.45	-4.55	54	31.14	32.72	17.12	29.71	296	360	P	V
		7440	43.88	-30.12	74	48.01	37.42	16.6	57.33	100	0	P	V
		10420	44.69	-23.51	68.2	46.49	39.99	17.84	59.32	100	0	P	V
		15630	42.68	-31.32	74	43.15	37.9	21.89	59.9	100	0	P	V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												


Band 1 5150~5250MHz (Band edge @ 3m)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
Simultaneously		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11g HT40 CH09 2452 MHz Ant 3 + 802.11ac VHT80 CH42 5210 MHz Ant 2		5150.02	55.91	-94.09	150	39.81	32.62	13.2	29.72	101	248	P	H
		5148.98	46.07	-7.93	54	29.97	32.62	13.2	29.72	101	248	A	H
	*	5210	96.44	-	-	80.54	32.55	13.07	29.72	101	248	P	H
	*	5210	88.91	-	-	73.01	32.55	13.07	29.72	101	248	A	H
		5359.2	53.82	-20.18	74	38.2	32.37	12.98	29.73	101	248	P	H
		5354.44	44.27	-9.73	54	28.65	32.37	12.98	29.73	101	248	A	H
		5005.98	54.97	-19.03	74	38.34	32.79	13.55	29.71	100	19	P	V
		5147.94	45.95	-8.05	54	29.85	32.62	13.2	29.72	100	19	A	V
	*	5210	97.43	-	-	81.53	32.55	13.07	29.72	100	19	P	V
	*	5210	89.65	-	-	73.75	32.55	13.07	29.72	100	19	A	V
		5361.16	54.44	-19.56	74	38.82	32.37	12.98	29.73	100	19	P	V
		5442.92	44.88	-9.12	54	29.25	32.27	13.1	29.74	100	19	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz (Band edge @ 3m)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
Simultaneously		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11g HT40 CH09 2452 MHz Ant 3 + 802.11ac VHT80 CH42 5210 MHz Ant 2		2387	55.66	-18.34	74	40.22	27.41	18.31	30.28	136	360	P	H
		2387.28	45.7	-8.3	54	30.26	27.41	18.31	30.28	136	360	A	H
	*	2452	101.45	-	-	85.77	27.58	18.36	30.26	136	360	P	H
	*	2452	94.08	-	-	78.4	27.58	18.36	30.26	136	360	A	H
		2484.32	60.55	-13.45	74	44.76	27.66	18.38	30.25	136	360	P	H
		2484.46	50.06	-3.94	54	34.27	27.66	18.38	30.25	136	360	A	H
													H
													H
		2332.4	56.05	-17.95	74	40.86	27.26	18.23	30.3	304	259	P	V
		2379.44	45.74	-8.26	54	30.34	27.39	18.3	30.29	304	259	A	V
	*	2452	97.36	-	-	81.68	27.58	18.36	30.26	304	259	P	V
	*	2452	89.92	-	-	74.24	27.58	18.36	30.26	304	259	A	V
		2483.76	56.89	-17.11	74	41.1	27.66	18.38	30.25	304	259	P	V
		2484.39	48.12	-5.88	54	32.33	27.66	18.38	30.25	304	259	A	V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz and Band 1 5150~5250MHz (Harmonic @ 3m)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
Simultaneously		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11g HT40 CH09 2452 MHz Ant 3 + 802.11ac VHT80 CH42 5210 MHz Ant 2		4904	59.1	-14.9	74	41.03	32.61	15.18	29.72	100	250	P	H
		4904	47.95	-6.05	54	29.88	32.61	15.18	29.72	100	250	A	H
		7356	44.73	-29.27	74	49.14	37.3	15.73	57.44	100	0	P	H
		10420	45.74	-22.46	68.2	47.54	39.99	17.53	59.32	100	0	P	H
		15630	42.7	-31.3	74	43.17	37.9	21.53	59.9	100	0	P	H
													H
													H
		4904	58.47	-15.53	74	40.4	32.61	15.18	29.72	100	360	P	V
		4904	47.7	-6.3	54	29.63	32.61	15.18	29.72	100	360	A	V
		7356	44.35	-29.65	74	48.76	37.3	15.73	57.44	100	0	P	V
		10420	44.94	-23.26	68.2	46.74	39.99	17.53	59.32	100	0	P	V
		15630	42.95	-31.05	74	43.42	37.9	21.53	59.9	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

2.4GHz 2400~2483.5MHz and Band 1 5150~5250MHz (LF @ 3m)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
Simultaneously		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11g HT40 CH09 2452 MHz Ant 3 + 802.11ac VHT80 CH42 5210 MHz Ant 2		100.81	37.7	-5.8	43.5	53.04	15.97	1.06	32.37	100	0	P	H
		163.86	34.04	-9.46	43.5	48.72	16.11	1.57	32.36	-	-	P	H
		390.84	28.68	-17.32	46	36.55	21.47	3.15	32.49	-	-	P	H
		591.63	26.7	-19.3	46	30.11	25.48	3.78	32.67	-	-	P	H
		726.46	30.54	-15.46	46	31.29	27.42	4.32	32.49	-	-	P	H
		906.88	32.23	-13.77	46	30.09	29.23	4.64	31.73	-	-	P	H
													H
													H
		101.78	31.86	-11.64	43.5	47.03	16.13	1.07	32.37	100	0	P	V
		163.86	26.74	-16.76	43.5	41.42	16.11	1.57	32.36	-	-	P	V
		363.68	22.16	-23.84	46	30.9	20.8	2.93	32.47	-	-	P	V
		486.87	25.04	-20.96	46	30.64	23.71	3.26	32.57	-	-	P	V
		675.05	28.09	-17.91	46	30.13	26.45	4.08	32.57	-	-	P	V
		857.41	31.32	-14.68	46	29.57	29.12	4.66	32.03	-	-	P	V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against limit line.												



<Gaming Mode>

Band 1 5150~5250MHz (Band edge @ 3m)

WIFI Ant. Simultaneously	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)
BT(1M) CH78 2480 MHz Ant 0 + 802.11ac VHT80 CH42 5210 MHz Ant 1		5146.64	57.46	-16.54	74	41.35	32.62	13.21	29.72	239	54	P	H
		5148.2	49.12	-4.88	54	33.02	32.62	13.2	29.72	239	54	A	H
	*	5210	100.67	-	-	84.77	32.55	13.07	29.72	239	54	P	H
	*	5210	93	-	-	77.1	32.55	13.07	29.72	239	54	A	H
		5425.56	53.88	-20.12	74	38.29	32.29	13.04	29.74	239	54	P	H
		5388.6	44.67	-9.33	54	29.11	32.33	12.96	29.73	239	54	A	H
		5084.5	55.45	-18.55	74	39.11	32.7	13.36	29.72	197	360	P	V
		5149.76	45.78	-8.22	54	29.68	32.62	13.2	29.72	197	360	A	V
	*	5210	89.86	-	-	73.96	32.55	13.07	29.72	197	360	P	V
	*	5210	82.1	-	-	66.2	32.55	13.07	29.72	197	360	A	V
		5422.48	52.99	-21.01	74	37.41	32.29	13.03	29.74	197	360	P	V
		5376.56	44.3	-9.7	54	28.71	32.35	12.97	29.73	197	360	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz (Band edge @ 3m)

WIFI Ant. Simultaneously	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)
BT(1M) CH78 2480 MHz Ant 0 + 802.11ac VHT80 CH42 5210 MHz Ant 1	*	2480	103.81	-	-	97.96	27.65	8.46	30.26	100	308	P	H
	*	2480	79.02	-	-	-	-	-	-	-	-	A	H
		2483.52	52.8	-21.2	74	46.93	27.66	8.46	30.25	100	308	P	H
		2483.52	28.01	-25.99	54	-	-	-	-	-	-	A	H
													H
													H
													H
													H
	*	2480	99.37	-	-	93.52	27.65	8.46	30.26	384	16	P	V
	*	2480	74.58	-	-	-	-	-	-	-	-	A	V
		2484.04	49.67	-24.33	74	43.8	27.66	8.46	30.25	384	16	P	V
		2484.04	24.88	-29.12	54	-	-	-	-	-	-	A	V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz and Band 1 5150~5250MHz (Harmonic @ 3m)

WIFI Ant. Simultaneously	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)
BT(1M) CH78 2480 MHz Ant 0 + 802.11ac VHT80 CH42 5210 MHz Ant 1		4960	59.53	-14.47	74	41.22	32.72	15.3	29.71	100	0	P	H
		4960	34.74	-19.26	54	-	-	-	-	-	-	A	H
		7440	45.83	-28.17	74	49.96	37.42	15.78	57.33	100	0	P	H
		7440	21.04	-32.96	54	-	-	-	-	-	-	A	H
		10420	46.66	-21.54	68.2	48.46	39.99	17.53	59.32	100	0	P	H
		15630	44.73	-29.27	74	45.2	37.9	21.53	59.9	100	0	P	H
													H
		4960	58.54	-15.46	74	40.23	32.72	15.3	29.71	100	0	P	V
		4960	33.75	-20.25	54	-	-	-	-	-	-	A	V
		7440	45.51	-28.49	74	49.64	37.42	15.78	57.33	100	0	P	V
		7440	20.72	-33.28	54	-	-	-	-	-	-	A	V
		10420	45.9	-22.3	68.2	47.7	39.99	17.53	59.32	100	0	P	V
		15630	43.17	-30.83	74	43.64	37.9	21.53	59.9	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 1 5150~5250MHz (Band edge @ 3m)

WIFI Ant. Simultaneously	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)
BLE CH39 2480 MHz Ant 0 + 802.11ac VHT80 CH42 5210 MHz Ant 1		5121.94	55.95	-18.05	74	39.75	32.65	13.27	29.72	100	51	P	H
		5149.24	47.2	-6.8	54	31.1	32.62	13.2	29.72	100	51	A	H
	*	5210	97.99	-	-	82.09	32.55	13.07	29.72	100	51	P	H
	*	5210	90.32	-	-	74.42	32.55	13.07	29.72	100	51	A	H
		5401.2	53.94	-20.06	74	38.4	32.32	12.95	29.73	100	51	P	H
		5373.48	44.6	-9.4	54	29.01	32.35	12.97	29.73	100	51	A	H
		5065.52	55.31	-18.69	74	38.9	32.72	13.4	29.71	319	12	P	V
		5023.66	45.79	-8.21	54	29.23	32.77	13.5	29.71	319	12	A	V
	*	5210	88.76	-	-	72.86	32.55	13.07	29.72	319	12	P	V
	*	5210	80.89	-	-	64.99	32.55	13.07	29.72	319	12	A	V
		5438.16	53.13	-20.87	74	37.51	32.27	13.09	29.74	319	12	P	V
		5390.28	44.24	-9.76	54	28.68	32.33	12.96	29.73	319	12	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz (Band edge @ 3m)

WIFI Ant. Simultaneously	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)
BLE CH39 2480 MHz Ant 0 + 802.11ac VHT80 CH42 5210 MHz Ant 1	*	2480	103.27	-	-	87.5	27.65	18.38	30.26	101	303	P	H
	*	2480	101.9	-	-	86.13	27.65	18.38	30.26	101	303	A	H
		2486.52	56.08	-17.92	74	40.29	27.66	18.38	30.25	101	303	P	H
		2485.48	48.34	-5.66	54	32.55	27.66	18.38	30.25	101	303	A	H
													H
													H
													H
													H
	*	2480	98.94	-	-	83.17	27.65	18.38	30.26	368	351	P	V
	*	2480	97.69	-	-	81.92	27.65	18.38	30.26	368	351	A	V
		2496.44	57.4	-16.6	74	41.57	27.69	18.39	30.25	368	351	P	V
		2498.8	48.43	-5.57	54	32.59	27.7	18.39	30.25	368	351	A	V
													V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz and Band 1 5150~5250MHz (Harmonic @ 3m)

WIFI Ant. Simultaneously	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)
BLE CH39 2480 MHz Ant 0 + 802.11ac VHT80 CH42 5210 MHz Ant 1		4960	57.91	-16.09	74	39.6	32.72	15.3	29.71	100	0	P	H
		4960	48.84	-5.16	54	30.53	32.72	15.3	29.71	100	0	A	H
		7440	45.28	-28.72	74	49.41	37.42	15.78	57.33	100	0	P	H
		10420	45.07	-23.13	68.2	46.87	39.99	17.53	59.32	100	0	P	H
		15630	42.33	-31.67	74	42.8	37.9	21.53	59.9	100	0	P	H
													H
													H
		4960	58.02	-15.98	74	39.71	32.72	15.3	29.71	100	0	P	V
		4960	48.51	-5.49	54	30.2	32.72	15.3	29.71	100	0	A	V
		7440	43.93	-30.07	74	48.06	37.42	15.78	57.33	100	0	P	V
		10420	45.36	-22.84	68.2	47.16	39.99	17.53	59.32	100	0	P	V
		15630	42.57	-31.43	74	43.04	37.9	21.53	59.9	100	0	P	V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 1 5150~5250MHz (Band edge @ 3m)

WIFI Ant. Simultaneously	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)
802.11g HT40 CH09 2452 MHz Ant 0 + 802.11ac VHT80 CH42 5210 MHz Ant 1		5147.68	55.3	-18.7	74	39.19	32.62	13.21	29.72	394	116	P	H
		5051.22	45.46	-8.54	54	28.99	32.74	13.44	29.71	394	116	A	H
	*	5210	87.16	-	-	71.26	32.55	13.07	29.72	394	116	P	H
	*	5210	79.55	-	-	63.65	32.55	13.07	29.72	394	116	A	H
		5364.52	52.84	-21.16	74	37.24	32.36	12.97	29.73	394	116	P	H
		5458.6	44.32	-9.68	54	28.65	32.25	13.16	29.74	394	116	A	H
		5012.48	54.34	-19.66	74	37.73	32.79	13.53	29.71	100	181	P	V
		5139.88	45.91	-8.09	54	29.78	32.63	13.22	29.72	100	181	A	V
	*	5210	94.37	-	-	78.47	32.55	13.07	29.72	100	181	P	V
	*	5210	86.58	-	-	70.68	32.55	13.07	29.72	100	181	A	V
		5449.08	54.01	-19.99	74	38.37	32.26	13.12	29.74	100	181	P	V
		5376	44.37	-9.63	54	28.78	32.35	12.97	29.73	100	181	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz (Band edge @ 3m)

WIFI Ant. Simultaneously	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)
802.11g HT40 CH09 2452 MHz Ant 0 + 802.11ac VHT80 CH42 5210 MHz Ant 1		2370.06	55.34	-18.66	74	39.98	27.36	18.29	30.29	219	25	P	H
		2389.94	45.74	-8.26	54	30.29	27.41	18.32	30.28	219	25	A	H
	*	2452	102.03	-	-	86.35	27.58	18.36	30.26	219	25	P	H
	*	2452	93.89	-	-	78.21	27.58	18.36	30.26	219	25	A	H
		2483.97	58.86	-15.14	74	43.07	27.66	18.38	30.25	219	25	P	H
		2483.5	49.89	-4.11	54	34.1	27.66	18.38	30.25	219	25	A	H
													H
													H
		2351.86	55.6	-18.4	74	40.32	27.31	18.26	30.29	210	90	P	V
		2368.52	45.82	-8.18	54	30.47	27.36	18.28	30.29	210	90	A	V
	*	2452	100.39	-	-	84.71	27.58	18.36	30.26	210	90	P	V
	*	2452	93.07	-	-	77.39	27.58	18.36	30.26	210	90	A	V
		2483.55	57.45	-16.55	74	41.66	27.66	18.38	30.25	210	90	P	V
		2483.76	49.02	-4.98	54	33.23	27.66	18.38	30.25	210	90	A	V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz and Band 1 5150~5250MHz (Harmonic @ 3m)

WIFI Ant. Simultaneously	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)
802.11g HT40 CH09 2452 MHz Ant 0 + 802.11ac VHT80 CH42 5210 MHz Ant 1		4904	59.36	-14.64	74	41.29	32.61	15.18	29.72	100	0	P	H
		4904	48.28	-5.72	54	30.21	32.61	15.18	29.72	100	0	A	H
		7356	43.97	-30.03	74	48.38	37.3	15.73	57.44	100	0	P	H
		10420	44.7	-23.5	68.2	46.5	39.99	17.53	59.32	100	0	P	H
		15630	42.4	-31.6	74	42.87	37.9	21.53	59.9	100	0	P	H
													H
													H
		4904	58.73	-15.27	74	40.66	32.61	15.18	29.72	218	360	P	V
		4904	48.47	-5.53	54	30.4	32.61	15.18	29.72	218	360	A	V
		7356	44.74	-29.26	74	49.15	37.3	15.73	57.44	100	0	P	V
		10420	45.45	-22.75	68.2	47.25	39.99	17.53	59.32	100	0	P	V
		15630	43.22	-30.78	74	43.69	37.9	21.53	59.9	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

2.4GHz 2400~2483.5MHz and Band 1 5150~5250MHz (LF @ 3m)

WIFI Ant. Simultaneously	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)
802.11g HT40 CH09 2452 MHz Ant 0 + 802.11ac VHT80 CH42 5210 MHz Ant 1		94.99	35.73	-7.77	43.5	51.87	15.21	1.03	32.38	100	0	P	H
		174.53	29.19	-14.31	43.5	44.63	15.31	1.61	32.36	-	-	P	H
		386.96	24.63	-21.37	46	32.67	21.34	3.11	32.49	-	-	P	H
		561.56	26.7	-19.3	46	29.45	26.24	3.65	32.64	-	-	P	H
		754.59	30.3	-15.7	46	30.04	28.19	4.51	32.44	-	-	P	H
		931.13	32.53	-13.47	46	29.34	30.08	4.63	31.52	-	-	P	H
													H
													H
		94.99	37.13	-6.37	43.5	53.27	15.21	1.03	32.38	100	0	P	V
		163.86	27.54	-15.96	43.5	42.22	16.11	1.57	32.36	-	-	P	V
		399.57	25.29	-20.71	46	32.8	21.77	3.22	32.5	-	-	P	V
		554.77	27.41	-18.59	46	30.64	25.78	3.62	32.63	-	-	P	V
		760.41	31.4	-14.6	46	31.11	28.23	4.49	32.43	-	-	P	V
		931.13	32.39	-13.61	46	29.2	30.08	4.63	31.52	-	-	P	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.
-	The signal is Unintentional Radiators .
P/A	Peak or Average
H/V	H orizontal or V ertical

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

WIFI Ant. Simultaneously	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)
802.11b CH 01 2412MHz		2390	55.45	-18.55	74	54.51	32.22	4.58	35.86	103	308	P	H
		2390	43.54	-10.46	54	42.6	32.22	4.58	35.86	103	308	A	H

1. 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 B. Radiated Spurious Emission Plots

Test Engineer :	Jacky Hung, Austin Li, and CR Liao	Temperature :	20~25°C
		Relative Humidity :	50~60%

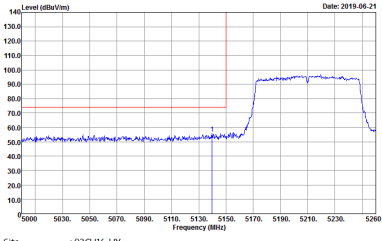
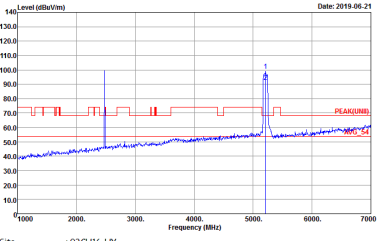
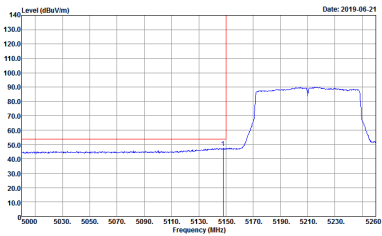
Note symbol

-L	Low channel location
-R	High channel location

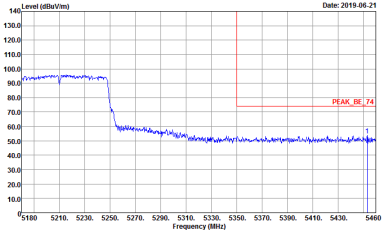
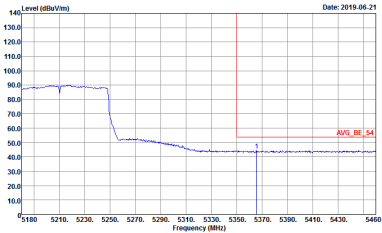


<Calling Mode>

Band 1 5150~5250MHz (Band Edge @ 3m)

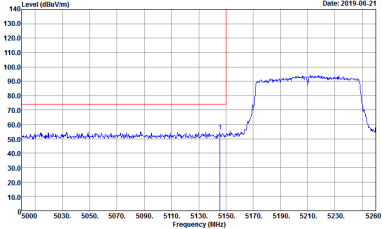
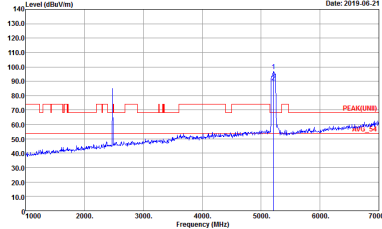
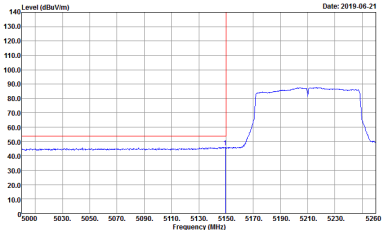
ANT	BT(1M)_Ch78_Ant 0 + WIFI 802.11ac VHT80_Ch42_Ant 3 - L	
Simultaneously	Horizontal	Fundamental
Peak	 Level (dBuV/m) Date: 2019-06-21 Site : 03CH16-HY Condition : PEAK_BE_74 3m 9120D_1522 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 931316	 Level (dBuV/m) Date: 2019-06-21 Site : 03CH16-HY Condition : PEAK(UNIT) 3m 9120D_1522 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 931316
Avg.	 Level (dBuV/m) Date: 2019-06-21 Site : 03CH16-HY Condition : AVG_BE_54 3m 9120D_1522 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 931316	Left blank

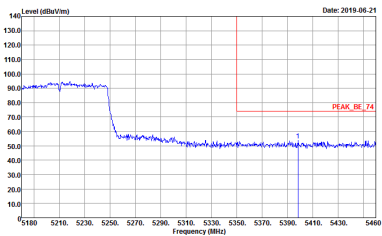
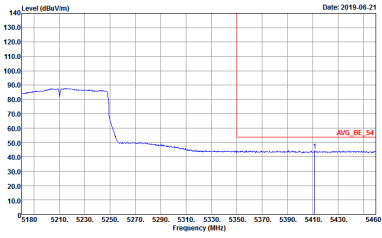


ANT	BLE_Ch39_Ant 0 + WIFI 802.11ac VHT80_Ch42_Ant 3 - R	
Simultaneously	Horizontal	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE_74 3m 91200_1522 HORIZONTAL Detector : Peak Project : 931316	Left blank
Avg.	 Site : 03CH16-HY Condition : AVG_BE_54 3m 91200_1522 HORIZONTAL Detector : Peak Project : 931316	Left blank



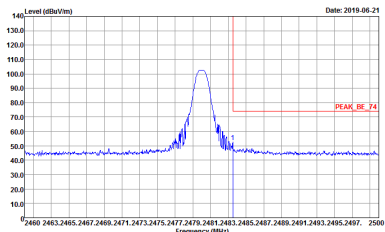
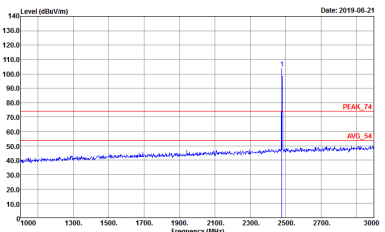
Band 1 5150~5250MHz (Band Edge @ 3m)

ANT	BT(1M)_Ch78_Ant 0 + WIFI 802.11ac VHT80_Ch42_Ant 3 - L	
Simultaneously	Vertical	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE_74 3m 9120D_1522 VERTICAL Detector : Peak Project : 931316	 Site : 03CH16-HY Condition : PEAK(UNIT) 3m 9120D_1522 VERTICAL Detector : Peak Project : 931316
Avg.	 Site : 03CH16-HY Condition : AVG_BE_54 3m 9120D_1522 VERTICAL Detector : Peak Project : 931316	Left blank

ANT	BT(1M)_Ch78_Ant 0 + WIFI 802.11ac VHT80_Ch42_Ant 3 - R	
Simultaneously	Vertical	Fundamental
Peak	 Date: 2019-06-21 Site : 03CH16-HY Condition : PEAK_BE_74 3m 91200_1522 VERTICAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Detector : Peak Project : 931316	Left blank
Avg.	 Date: 2019-06-21 Site : 03CH16-HY Condition : AVG_BE_54 3m 91200_1522 VERTICAL RBW:1000.000kHz VBW:3.000kHz SWT:Auto Detector : Peak Project : 931316	Left blank

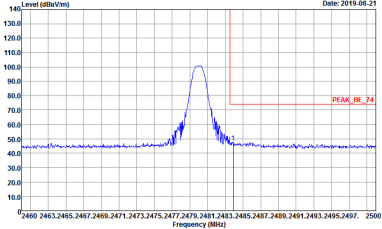
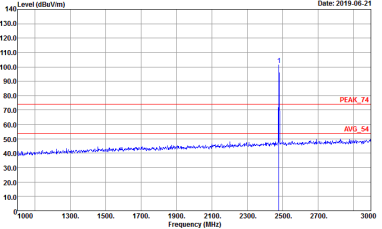


2.4GHz 2400~2483.5MHz (Band Edge @ 3m)

ANT	BT(1M)_Ch78_Ant 0 + WIFI 802.11ac VHT80_Ch42_Ant 3 - L	
Simultaneously	Horizontal	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE_74 3m 91200_1522 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 931316	 Site : 03CH16-HY Condition : PEAK_74 3m 91200_1522 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 931316
Avg.	Left blank	Left blank

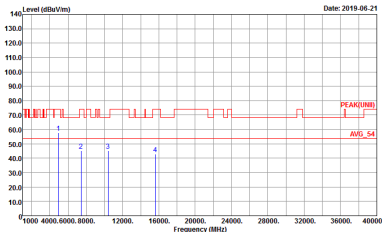
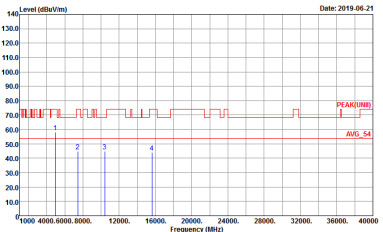


2.4GHz 2400~2483.5MHz (Band Edge @ 3m)

ANT	BT(1M)_Ch78_Ant 0 + WIFI 802.11ac VHT80_Ch42_Ant 3 - L	
Simultaneously	Vertical	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE_74 3m 91200_1522 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : 931316	 Site : 03CH16-HY Condition : PEAK_74 3m 91200_1522 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : 931316
Avg.	Left blank	Left blank

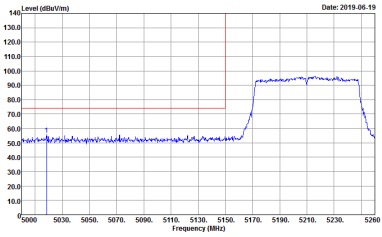
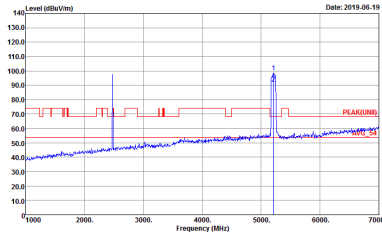
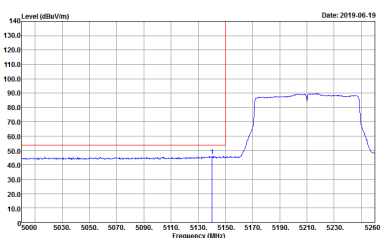


2.4GHz 2400~2483.5MHz and Band 1 5150~5250MHz (Harmonic @ 3m)

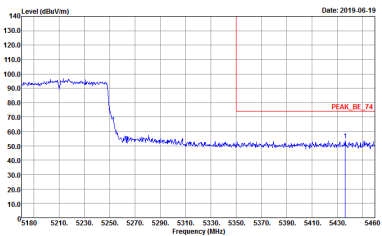
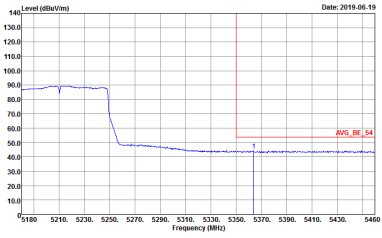
ANT	BT(1M)_Ch78_Ant 0 + WIFI 802.11ac VHT80_Ch42_Ant 3	
Simultaneously	Horizontal	Vertical
Peak Avg.	 Site : 03CH16-HY Condition : PEAK(UNIT) 3m 9120D_1522 HORIZONTAL Detector : Peak Project : 931316	 Site : 03CH16-HY Condition : PEAK(UNIT) 3m 9120D_1522 VERTICAL Detector : Peak Project : 931316



Band 1 5150~5250MHz (Band Edge @ 3m)

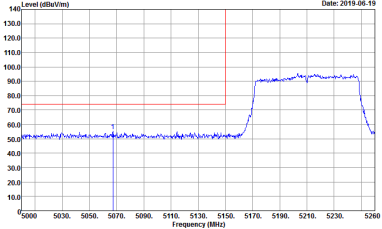
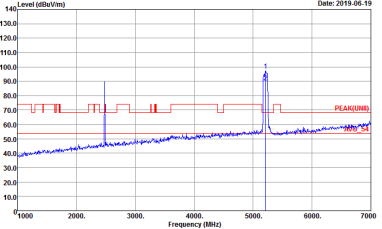
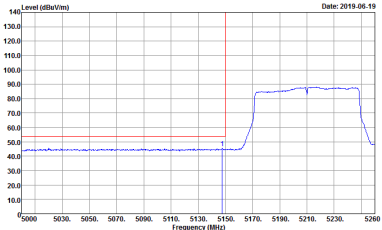
ANT	BLE_Ch39_Ant 0 + WIFI 802.11ac VHT80_Ch42_Ant 3 - L	
Simultaneously	Horizontal	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE_74 3m 9120D_1522 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 931316 Setting : 12.5	 Site : 03CH16-HY Condition : PEAK(FUND) 3m 9120D_1522 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 931316 Setting : 12.5
Avg.	 Site : 03CH16-HY Condition : AVG_BE_54 3m 9120D_1522 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 931316 Setting : 12.5	Left blank



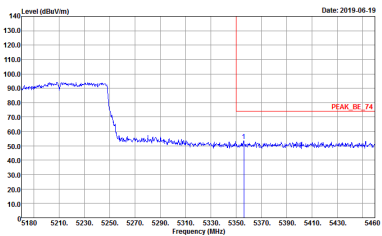
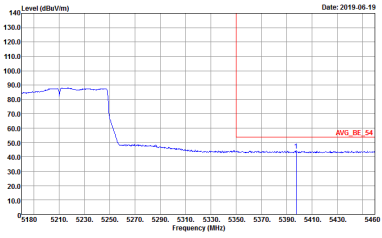
ANT	BLE_Ch39_Ant 0 + WIFI 802.11ac VHT80_Ch42_Ant 3 - R	
Simultaneously	Horizontal	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE_74 3m 91200_1522 HORIZONTAL Detector : Peak Project : 931316 Setting : 12.5	Left blank
Avg.	 Site : 03CH16-HY Condition : AVG_BE_54 3m 91200_1522 HORIZONTAL Detector : Peak Project : 931316 Setting : 12.5	Left blank



Band 1 5150~5250MHz (Band Edge @ 3m)

ANT	BLE_Ch39_Ant 0 + WIFI 802.11ac VHT80_Ch42_Ant 3 - L	
Simultaneously	Vertical	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE_74 3m 9120D_1522 VERTICAL Detector : Peak Project : 931316 Setting : 12.5	 Site : 03CH16-HY Condition : PEAK(UNIT) 3m 9120D_1522 VERTICAL Detector : Peak Project : 931316 Setting : 12.5
Avg.	 Site : 03CH16-HY Condition : AVG_BE_54 3m 9120D_1522 VERTICAL Detector : Peak Project : 931316 Setting : 12.5	Left blank



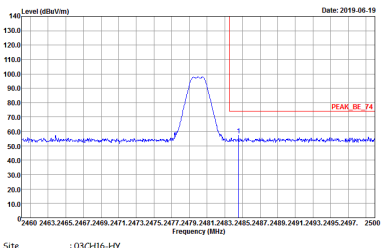
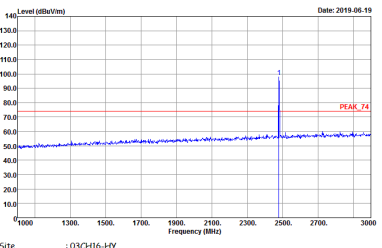
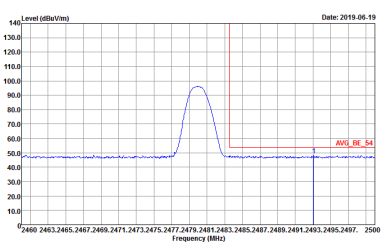
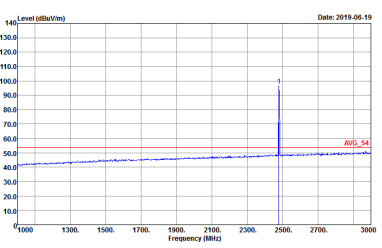
ANT	BLE_Ch39_Ant 0 + WIFI 802.11ac VHT80_Ch42_Ant 3 - R	
Simultaneously	Vertical	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE_74 3m 91200_1522 VERTICAL Detector : Peak Project : 931316 Setting : 12.5	Left blank
Avg.	 Site : 03CH16-HY Condition : AVG_BE_54 3m 91200_1522 VERTICAL Detector : Peak Project : 931316 Setting : 12.5	Left blank



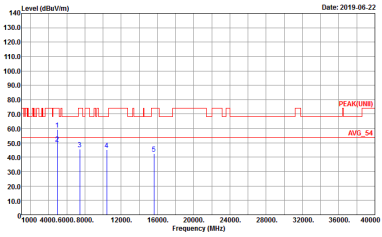
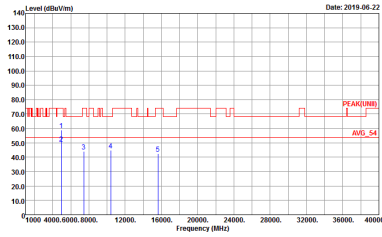
2.4GHz 2400~2483.5MHz (Band Edge @ 3m)

ANT	BLE_Ch39_Ant 0 + WIFI 802.11ac VHT80_Ch42_Ant 3 - L	
Simultaneously	Horizontal	Fundamental
Peak	Site : 03CH16-HY Condition : PEAK_BE_74 3m 91200_1522 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 931316	Site : 03CH16-HY Condition : PEAK_74 3m 91200_1522 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 931316
Avg.	Site : 03CH16-HY Condition : AVG_BE_54 3m 91200_1522 HORIZONTAL Detector : RBW:1000.000KHz VBW:10.000KHz SWT:Auto Detector : Peak Project : 931316	Site : 03CH16-HY Condition : AVG_54 3m 91200_1522 HORIZONTAL Detector : RBW:1000.000KHz VBW:10.000KHz SWT:Auto Detector : Peak Project : 931316

2.4GHz 2400~2483.5MHz (Band Edge @ 3m)

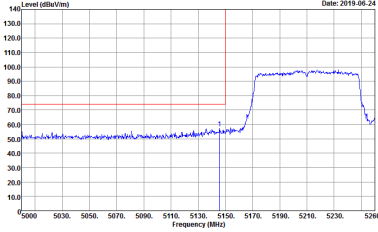
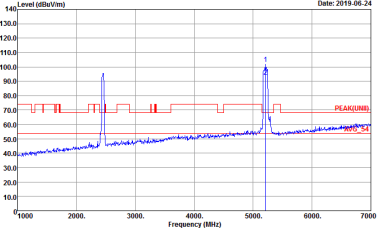
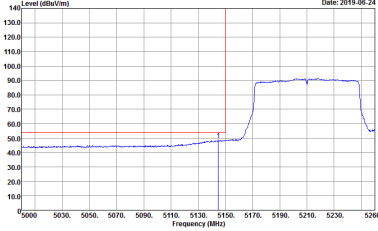
ANT	BLE_Ch39_Ant 0 + WIFI 802.11ac VHT80_Ch42_Ant 3 - L	
Simultaneously	Vertical	Fundamental
Peak	 Date: 2019-06-19 Site : 03CH16-HY Condition : PEAK_BE_74 3m 91200_1522 VERTICAL Detector : Peak Project : 931316	 Date: 2019-06-19 Site : 03CH16-HY Condition : PEAK_74 3m 91200_1522 VERTICAL Detector : Peak Project : 931316
Avg.	 Date: 2019-06-19 Site : 03CH16-HY Condition : AVG_BE_54 3m 91200_1522 VERTICAL Detector : Peak Project : 931316	 Date: 2019-06-19 Site : 03CH16-HY Condition : AVG_54 3m 91200_1522 VERTICAL Detector : Peak Project : 931316

2.4GHz 2400~2483.5MHz and Band 1 5150~5250MHz (Harmonic @ 3m)

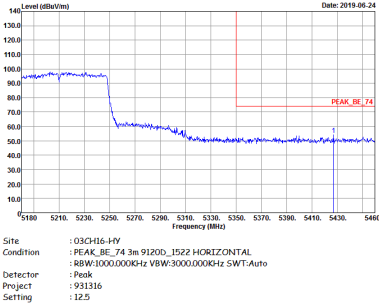
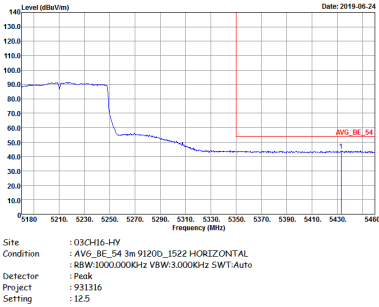
ANT	BLE_Ch39_Ant 0 + WIFI 802.11ac VHT80_Ch42_Ant 3	
Simultaneously	Horizontal	Vertical
Peak Avg.	 Site : 03CH16-HV Condition : PEAK(UNIT) 3m 9120D_1522 HORIZONTAL Detector : Peak Project : 931316	 Site : 03CH16-HV Condition : PEAK(UNIT) 3m 9120D_1522 VERTICAL Detector : Peak Project : 931316



Band 1 5150~5250MHz (Band Edge @ 3m)

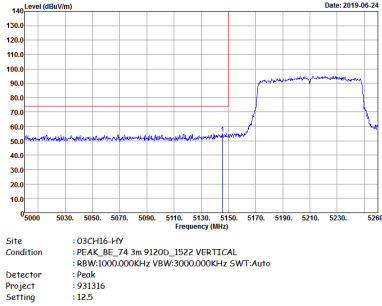
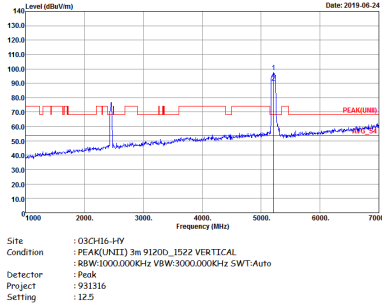
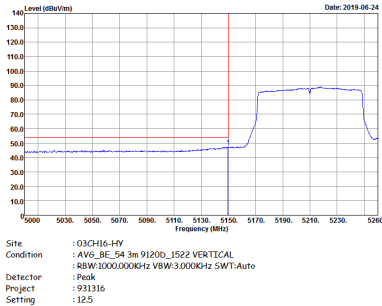
ANT	11g HT40_Ch09_Ant 0 + WIFI 802.11ac VHT80_Ch42_Ant 3 - L	
Simultaneously	Horizontal	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE_74 3m 9120D_1522 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 931316 Setting : 12.5	 Site : 03CH16-HY Condition : PEAK(UNIT) 3m 9120D_1522 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 931316 Setting : 12.5
Avg.	 Site : 03CH16-HY Condition : AVG_BE_54 3m 9120D_1522 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 931316 Setting : 12.5	Left blank

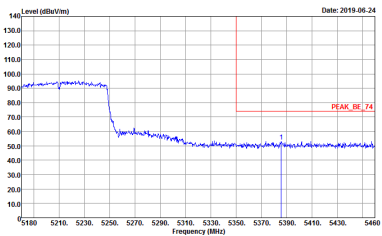
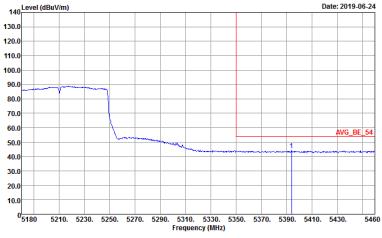


ANT	11g HT40_Ch09_Ant 0 + WIFI 802.11ac VHT80_Ch42_Ant 3 - R	
Simultaneously	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank



Band 1 5150~5250MHz (Band Edge @ 3m)

ANT	11g HT40_Ch09_Ant 0 + WIFI 802.11ac VHT80_Ch42_Ant 3 - L	
Simultaneously	Vertical	Fundamental
Peak		
Avg.		Left blank

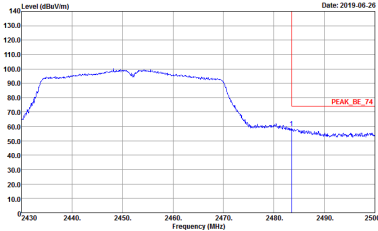
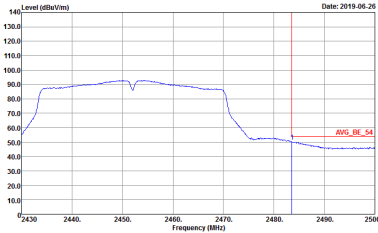
ANT	11g HT40_Ch09_Ant 0 + WIFI 802.11ac VHT80_Ch42_Ant 3 - R	
Simultaneously	Vertical	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE_74 3m 91200_1522 VERTICAL Detector : Peak Project : 931316 Setting : 12.5	Left blank
Avg.	 Site : 03CH16-HY Condition : AVG_BE_54 3m 91200_1522 VERTICAL Detector : Peak Project : 931316 Setting : 12.5	Left blank



2.4GHz 2400~2483.5MHz (Band Edge @ 3m)

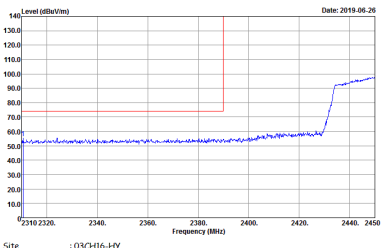
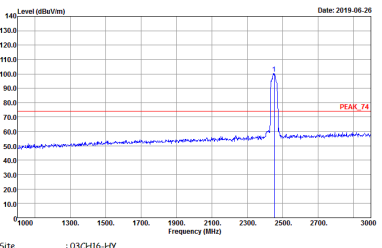
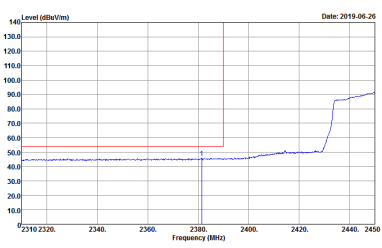
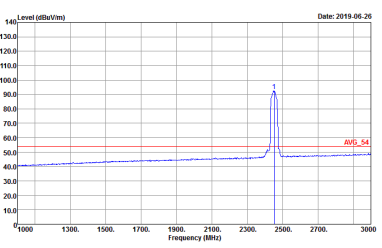
ANT	11g HT40_Ch09_Ant 0 + WIFI 802.11ac VHT80_Ch42_Ant 3 - L	
Simultaneously	Horizontal	Fundamental
Peak	Site : 03CH16-HY Condition : PEAK_BE_74 3m 91200_1522 HORIZONTAL Detector : Peak Project : 931316 Setting : 14	Site : 03CH16-HY Condition : PEAK_74 3m 91200_1522 HORIZONTAL Detector : Peak Project : 931316 Setting : 14
Avg.	Site : 03CH16-HY Condition : AVG_BE_54 3m 91200_1522 HORIZONTAL Detector : Peak Project : 931316 Setting : 14	Site : 03CH16-HY Condition : AVG_54 3m 91200_1522 HORIZONTAL Detector : Peak Project : 931316 Setting : 14



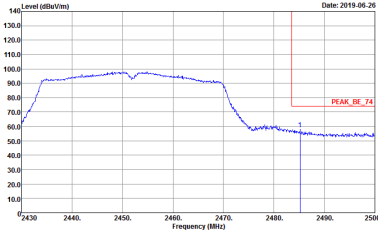
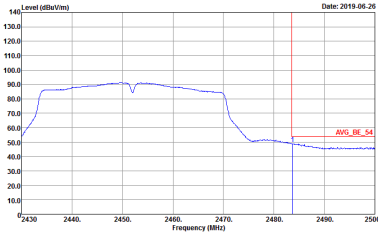
ANT	11g HT40_Ch09_Ant 0 + WIFI 802.11ac VHT80_Ch42_Ant 3 - R	
Simultaneously	Horizontal	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE_74 3m 91200_1522 HORIZONTAL Detector : Peak Project : 931316 Setting : 14	Left blank
Avg.	 Site : 03CH16-HY Condition : AVG_BE_54 3m 91200_1522 HORIZONTAL Detector : Peak Project : 931316 Setting : 14	Left blank



2.4GHz 2400~2483.5MHz (Band Edge @ 3m)

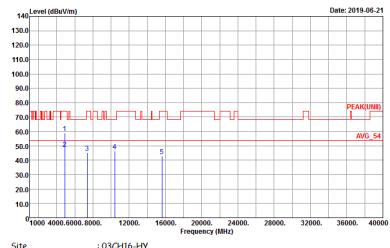
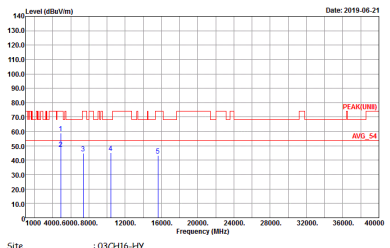
ANT	11g HT40_Ch09_Ant 0 + WIFI 802.11ac VHT80_Ch42_Ant 3 - L	
Simultaneously	Vertical	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE_74 3m 9120D_1522 VERTICAL Detector : Peak Project : 931316 Setting : 14	 Site : 03CH16-HY Condition : PEAK_74 3m 9120D_1522 VERTICAL Detector : Peak Project : 931316 Setting : 14
Avg.	 Site : 03CH16-HY Condition : AVG_BE_54 3m 9120D_1522 VERTICAL Detector : Peak Project : 931316 Setting : 14	 Site : 03CH16-HY Condition : AVG_54 3m 9120D_1522 VERTICAL Detector : Peak Project : 931316 Setting : 14



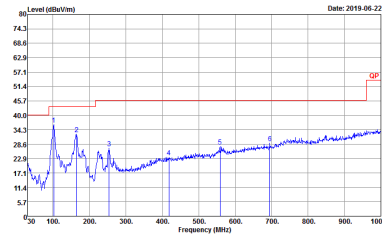
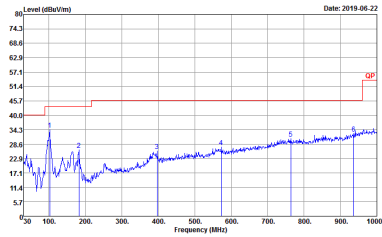
ANT	11g HT40_Ch09_Ant 0 + WIFI 802.11ac VHT80_Ch42_Ant 3 - R	
Simultaneously	Vertical	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE_74 3m 91200_1522 VERTICAL Detector : Peak Project : 931316 Setting : 14	Left blank
Avg.	 Site : 03CH16-HY Condition : AVG_BE_54 3m 91200_1522 VERTICAL Detector : Peak Project : 931316 Setting : 14	Left blank



2.4GHz 2400~2483.5MHz and Band 1 5150~5250MHz (Harmonic @ 3m)

ANT	11g HT40_Ch09_Ant 0 + WIFI 802.11ac VHT80_Ch42_Ant 3	
Simultaneously	Horizontal	Vertical
Peak Avg.	 Site : 03CH16-HY Condition : PEAK(UNIT) 3m 9120D_1522 HORIZONTAL Detector : Peak Project : 931316	 Site : 03CH16-HY Condition : PEAK(UNIT) 3m 9120D_1522 VERTICAL Detector : Peak Project : 931316

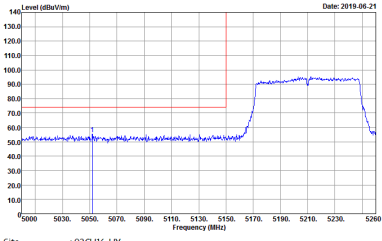
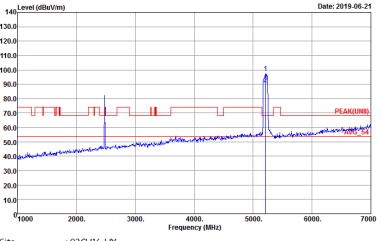
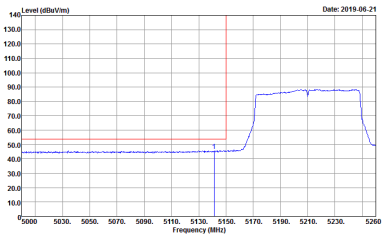
Emission below 1GHz
2.4GHz 2400~2483.5MHz + Band 1 5150~5250MHz (LF)

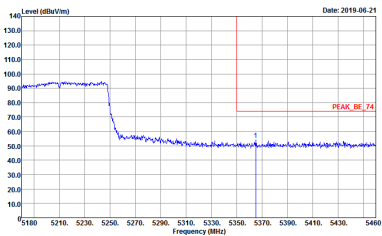
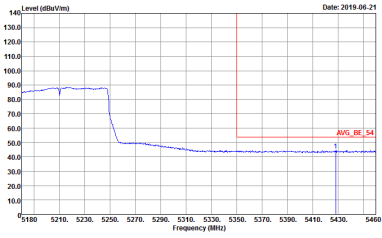
ANT	11g HT40_Ch09_Ant 0 + WIFI 802.11ac VHT80_Ch42_Ant 3	
Simultaneously	Horizontal	Vertical
QP / Peak	 Site : 03CH16-HY Condition : QP 3m B1L06_47020M06 HORIZONTAL Detector : Peak Project : 931316	 Site : 03CH16-HY Condition : QP 3m B1L06_47020M06 VERTICAL Detector : Peak Project : 931316



<Camera Mode>

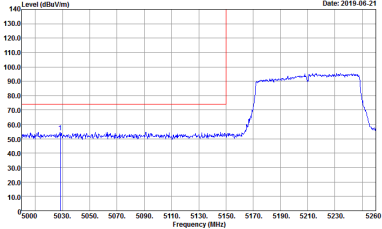
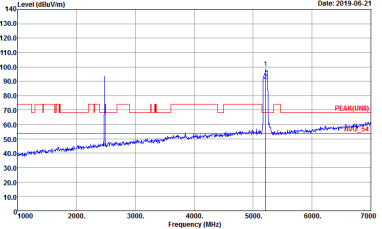
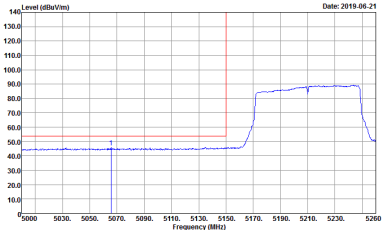
Band 1 5150~5250MHz (Band Edge @ 3m)

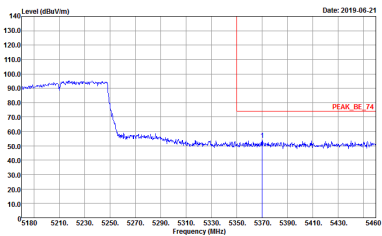
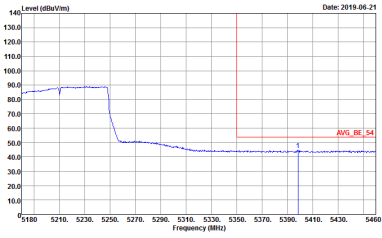
ANT	BT(1M)_Ch78_Ant 3 + WIFI 802.11ac VHT80_Ch42_Ant 2 - L	
Simultaneously	Horizontal	Fundamental
Peak	 Level (dBuV/m) Date: 2019-06-21 Site : 03CH16-HY Condition : PEAK_BE_74 3m 91200_1522 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 931316	 Level (dBuV/m) Date: 2019-06-21 Site : 03CH16-HY Condition : PEAK(UNIT) 3m 91200_1522 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 931316
Avg.	 Level (dBuV/m) Date: 2019-06-21 Site : 03CH16-HY Condition : AVG_BE_54 3m 91200_1522 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 931316	Left blank

ANT	BLE_Ch39_Ant 3 + WIFI 802.11ac VHT80_Ch42_Ant 2 - R	
Simultaneously	Horizontal	Fundamental
Peak	 Date: 2019-06-21 Site : 03CH16-HY Condition : PEAK_BE_74 3m 91200_1522 HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Detector : Peak Project : 931316	Left blank
Avg.	 Date: 2019-06-21 Site : 03CH16-HY Condition : AVG_BE_54 3m 91200_1522 HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Detector : Peak Project : 931316	Left blank



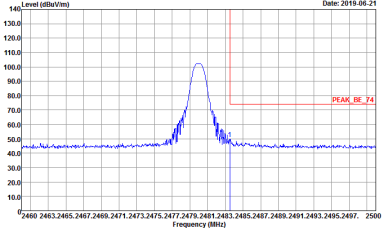
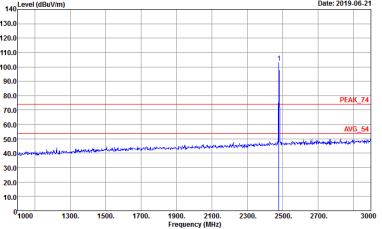
Band 1 5150~5250MHz (Band Edge @ 3m)

ANT	BT(1M)_Ch78_Ant 3 + WIFI 802.11ac VHT80_Ch42_Ant 2 - L	
Simultaneously	Vertical	Fundamental
Peak	 Level (dBuV/m) Frequency (MHz) Date: 2019-06-21 Site : 03CH16-HY Condition : PEAK_BE_74 3m 9120D_1522 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 931316	 Level (dBuV/m) Frequency (MHz) Date: 2019-06-21 Site : 03CH16-HY Condition : PEAK(UNIT) 3m 9120D_1522 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 931316
Avg.	 Level (dBuV/m) Frequency (MHz) Date: 2019-06-21 Site : 03CH16-HY Condition : AVG_BE_54 3m 9120D_1522 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 931316	Left blank

ANT	BT(1M)_Ch78_Ant 3 + WIFI 802.11ac VHT80_Ch42_Ant 2 - R	
Simultaneously	Vertical	Fundamental
Peak	 Date: 2019-06-21 Site : 03CH16-HY Condition : PEAK_BE_74 3m 91200_1522 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 931316	Left blank
Avg.	 Date: 2019-06-21 Site : 03CH16-HY Condition : AVG_BE_54 3m 91200_1522 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 931316	Left blank

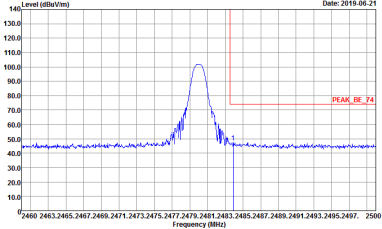
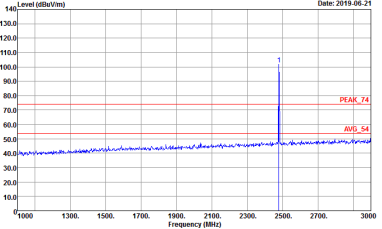


2.4GHz 2400~2483.5MHz (Band Edge @ 3m)

ANT	BT(1M)_Ch78_Ant 3 + WIFI 802.11ac VHT80_Ch42_Ant 2 - L	
Simultaneously	Horizontal	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE_74 3m 91200_1522 HORIZONTAL Detector : Peak Project : 931316	 Site : 03CH16-HY Condition : PEAK_74 3m 91200_1522 HORIZONTAL Detector : Peak Project : 931316
Avg.	Left blank	Left blank

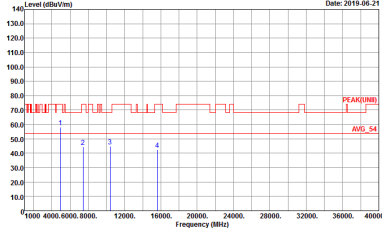
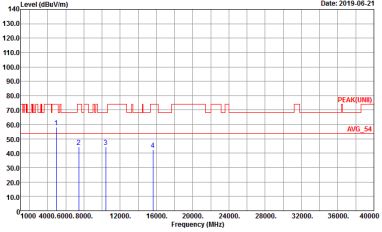


2.4GHz 2400~2483.5MHz (Band Edge @ 3m)

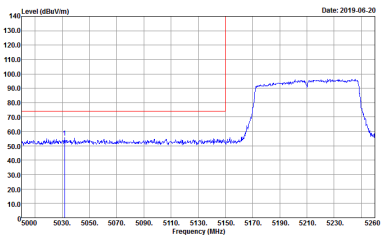
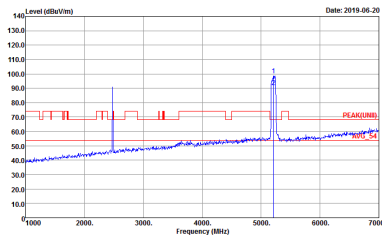
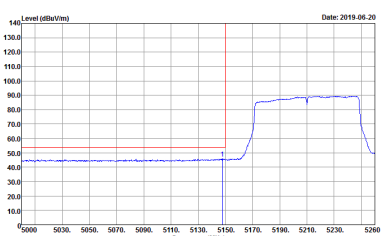
ANT	BT(1M)_Ch78_Ant 3 + WIFI 802.11ac VHT80_Ch42_Ant 2 - L	
Simultaneously	Vertical	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE_74 3m 91200_1522 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : 931316	 Site : 03CH16-HY Condition : PEAK_74 3m 91200_1522 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : 931316
Avg.	Left blank	Left blank

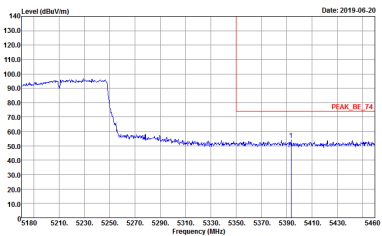
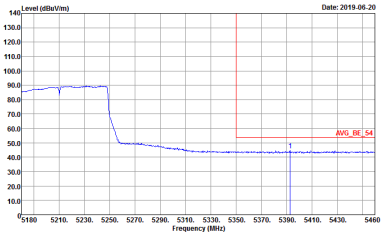


2.4GHz 2400~2483.5MHz and Band 1 5150~5250MHz (Harmonic @ 3m)

ANT	BT(1M)_Ch78_Ant 3 + WIFI 802.11ac VHT80_Ch42_Ant 2	
Simultaneously	Horizontal	Vertical
Peak Avg.	 Site : 03CH16-HY Condition : PEAK(UNIT) 3m 9120D_1522 HORIZONTAL Detector : Peak Project : 931316	 Site : 03CH16-HY Condition : PEAK(UNIT) 3m 9120D_1522 VERTICAL Detector : Peak Project : 931316

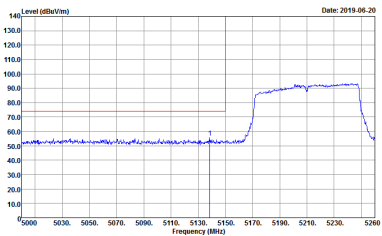
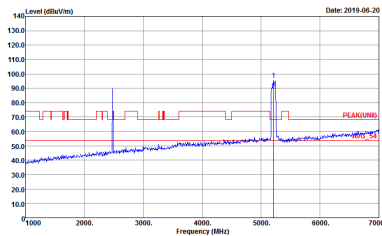
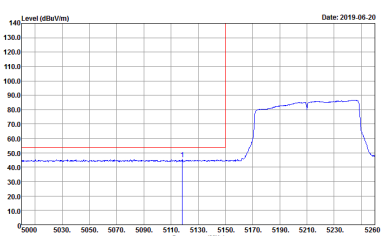
Band 1 5150~5250MHz (Band Edge @ 3m)

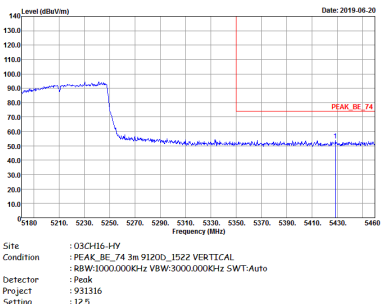
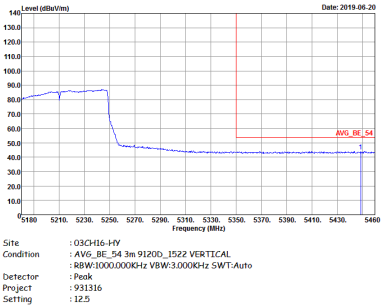
ANT	BLE_Ch39_Ant 3 + WIFI 802.11ac VHT80_Ch42_Ant 2 - L	
Simultaneously	Horizontal	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE_74 3m 91200_1522 HORIZONTAL Detector : Peak Project : 931316 Setting : 12.5	 Site : 03CH16-HY Condition : PEAK(UNIT) 3m 91200_1522 HORIZONTAL Detector : Peak Project : 931316 Setting : 12.5
Avg.	 Site : 03CH16-HY Condition : AVG_BE_54 3m 91200_1522 HORIZONTAL Detector : Peak Project : 931316 Setting : 12.5	Left blank

ANT	BLE_Ch39_Ant 3 + WIFI 802.11ac VHT80_Ch42_Ant 2 - R	
Simultaneously	Horizontal	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE_74 3m 91200_1522 HORIZONTAL Detector : Peak Project : 931316 Setting : 12.5	Left blank
Avg.	 Site : 03CH16-HY Condition : AVG_BE_54 3m 91200_1522 HORIZONTAL Detector : Peak Project : 931316 Setting : 12.5	Left blank

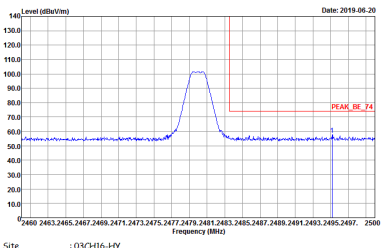
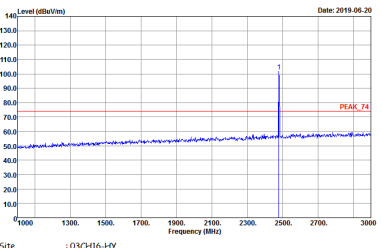
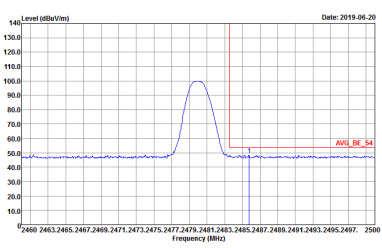
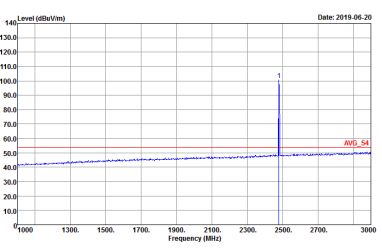


Band 1 5150~5250MHz (Band Edge @ 3m)

ANT	BLE_Ch39_Ant 3 + WIFI 802.11ac VHT80_Ch42_Ant 2 - L	
Simultaneously	Vertical	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE_74 3m 9120D_1522 VERTICAL Detector : Peak Project : 931316 Setting : 12.5	 Site : 03CH16-HY Condition : PEAK(UNIT) 3m 9120D_1522 VERTICAL Detector : Peak Project : 931316 Setting : 12.5
Avg.	 Site : 03CH16-HY Condition : AVG_BE_54 3m 9120D_1522 VERTICAL Detector : Peak Project : 931316 Setting : 12.5	Left blank

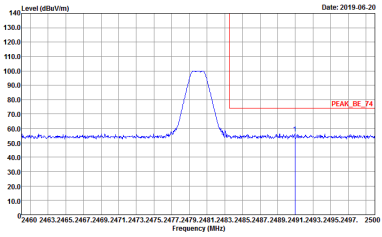
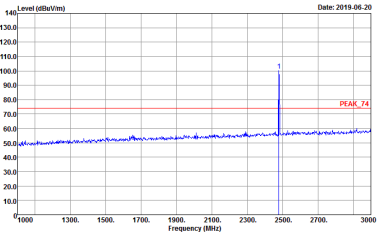
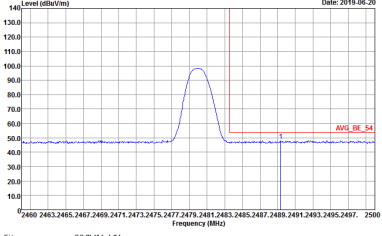
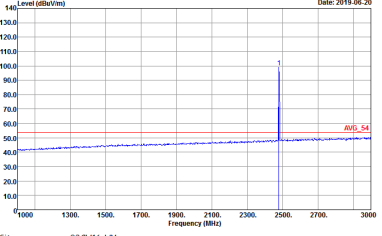
ANT	BLE_Ch39_Ant 3 + WIFI 802.11ac VHT80_Ch42_Ant 2 - R	
Simultaneously	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

2.4GHz 2400~2483.5MHz (Band Edge @ 3m)

ANT	BLE_Ch39_Ant 3 + WIFI 802.11ac VHT80_Ch42_Ant 2 - L	
Simultaneously	Horizontal	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE_74 3m 91200_1522 HORIZONTAL Detector : Peak Project : 931316	 Site : 03CH16-HY Condition : PEAK_74 3m 91200_1522 HORIZONTAL Detector : Peak Project : 931316
Avg.	 Site : 03CH16-HY Condition : AVG_BE_54 3m 91200_1522 HORIZONTAL Detector : Peak Project : 931316	 Site : 03CH16-HY Condition : AVG_54 3m 91200_1522 HORIZONTAL Detector : Peak Project : 931316

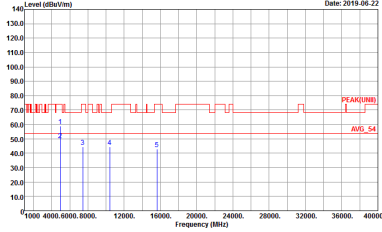
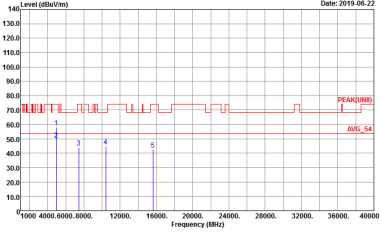


2.4GHz 2400~2483.5MHz (Band Edge @ 3m)

ANT	BLE_Ch39_Ant 3 + WIFI 802.11ac VHT80_Ch42_Ant 2 - L	
Simultaneously	Vertical	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE_74 3m 91200_1522 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 931316	 Site : 03CH16-HY Condition : PEAK_74 3m 91200_1522 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 931316
Avg.	 Site : 03CH16-HY Condition : AVG_BE_54 3m 91200_1522 VERTICAL RBW:1000.000KHz VBW:10.000KHz SWT:Auto Detector : Peak Project : 931316	 Site : 03CH16-HY Condition : AVG_54 3m 91200_1522 VERTICAL RBW:1000.000KHz VBW:10.000KHz SWT:Auto Detector : Peak Project : 931316

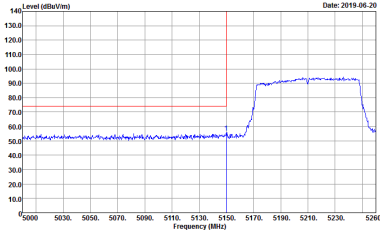
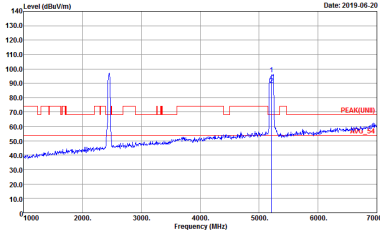
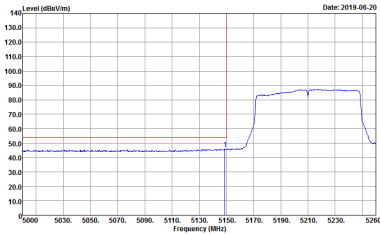


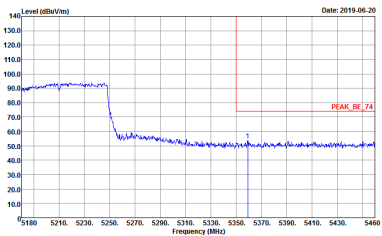
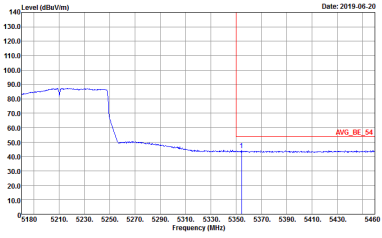
2.4GHz 2400~2483.5MHz and Band 1 5150~5250MHz (Harmonic @ 3m)

ANT	BLE_Ch39_Ant 3 + WIFI 802.11ac VHT80_Ch42_Ant 2	
Simultaneously	Horizontal	Vertical
Peak Avg.	 Site : 03CH16-HV Condition : PEAK(UNIT) 3m 9120D_1522 HORIZONTAL Detector : Peak Project : 931316	 Site : 03CH16-HV Condition : PEAK(UNIT) 3m 9120D_1522 VERTICAL Detector : Peak Project : 931316

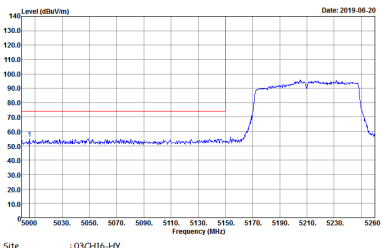
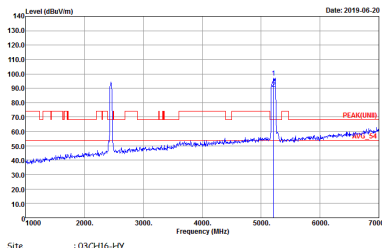
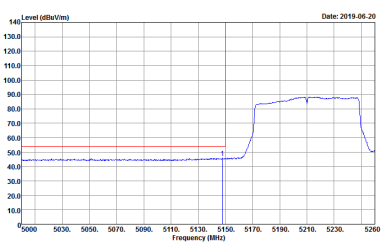


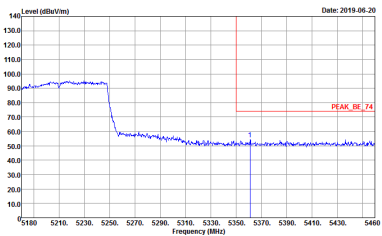
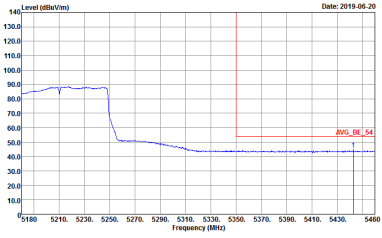
Band 1 5150~5250MHz (Band Edge @ 3m)

ANT	11g HT40_Ch09_Ant 3 + WIFI 802.11ac VHT80_Ch42_Ant 2 - L	
Simultaneously	Horizontal	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE_74 3m 9120D_1522 HORIZONTAL Detector : Peak Project : 931316 Setting : 12.5	 Site : 03CH16-HY Condition : PEAK(FUND) 3m 9120D_1522 HORIZONTAL Detector : Peak Project : 931316 Setting : 12.5
Avg.	 Site : 03CH16-HY Condition : AVG_BE_54 3m 9120D_1522 HORIZONTAL Detector : Peak Project : 931316 Setting : 12.5	Left blank

ANT	11g HT40_Ch09_Ant 3 + WIFI 802.11ac VHT80_Ch42_Ant 2 - R	
Simultaneously	Horizontal	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE_74 3m 91200_1522 HORIZONTAL Detector : Peak Project : 931316 Setting : 12.5	Left blank
Avg.	 Site : 03CH16-HY Condition : AVG_BE_54 3m 91200_1522 HORIZONTAL Detector : Peak Project : 931316 Setting : 12.5	Left blank

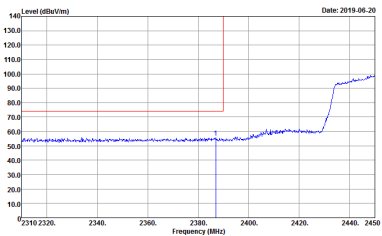
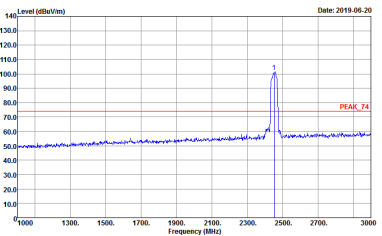
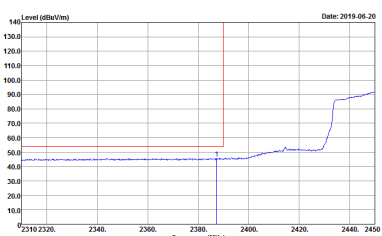
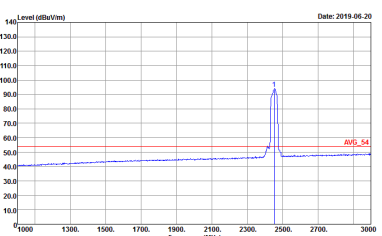
Band 1 5150~5250MHz (Band Edge @ 3m)

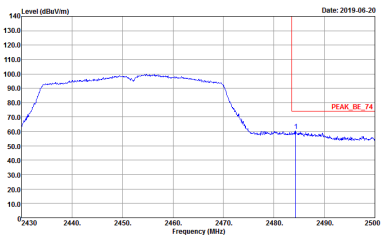
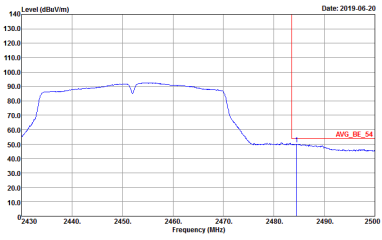
ANT	11g HT40_Ch09_Ant 3 + WIFI 802.11ac VHT80_Ch42_Ant 2 - L	
Simultaneously	Vertical	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE_74 3m 9120D_1522 VERTICAL Detector : Peak Project : 931316 Setting : 12.5	 Site : 03CH16-HY Condition : PEAK(UNIT) 3m 9120D_1522 VERTICAL Detector : Peak Project : 931316 Setting : 12.5
Avg.	 Site : 03CH16-HY Condition : AVG_BE_54 3m 9120D_1522 VERTICAL Detector : Peak Project : 931316 Setting : 12.5	Left blank

ANT	11g HT40_Ch09_Ant 3 + WIFI 802.11ac VHT80_Ch42_Ant 2 - R	
Simultaneously	Vertical	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE_74 3m 91200_1522 VERTICAL Detector : Peak Project : 931316 Setting : 12.5	Left blank
Avg.	 Site : 03CH16-HY Condition : AVG_BE_54 3m 91200_1522 VERTICAL Detector : Peak Project : 931316 Setting : 12.5	Left blank



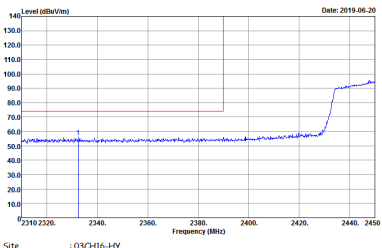
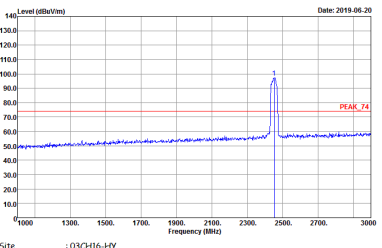
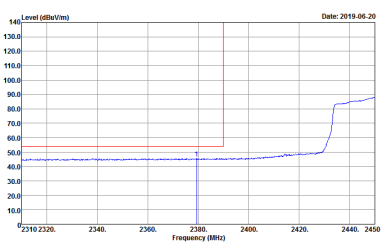
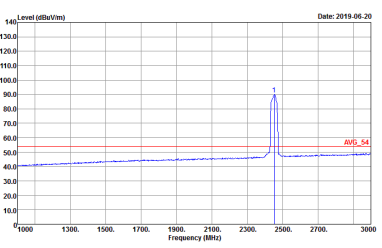
2.4GHz 2400~2483.5MHz (Band Edge @ 3m)

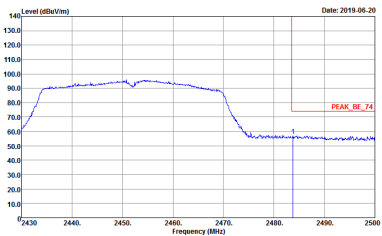
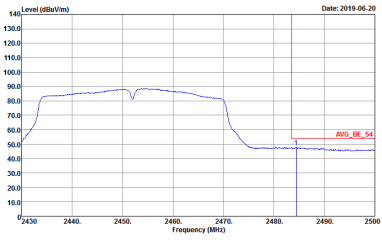
ANT	11g HT40_Ch09_Ant 3 + WIFI 802.11ac VHT80_Ch42_Ant 2 - L	
Simultaneously	Horizontal	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE_74 3m 91200_1522 HORIZONTAL Detector : Peak Project : 931316 Setting : 14	 Site : 03CH16-HY Condition : PEAK_74 3m 91200_1522 HORIZONTAL Detector : Peak Project : 931316 Setting : 14
Avg.	 Site : 03CH16-HY Condition : AVG_BE_54 3m 91200_1522 HORIZONTAL Detector : Peak Project : 931316 Setting : 14	 Site : 03CH16-HY Condition : AVG_54 3m 91200_1522 HORIZONTAL Detector : Peak Project : 931316 Setting : 14

ANT	11g HT40_Ch09_Ant 3 + WIFI 802.11ac VHT80_Ch42_Ant 2 - R	
Simultaneously	Horizontal	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE_74 3m 91200_1522 HORIZONTAL Detector : Peak Project : 931316 Setting : 14	Left blank
Avg.	 Site : 03CH16-HY Condition : AVG_BE_54 3m 91200_1522 HORIZONTAL Detector : Peak Project : 931316 Setting : 14	Left blank



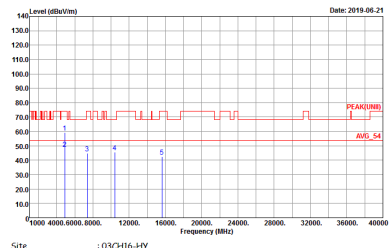
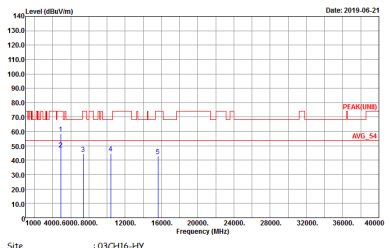
2.4GHz 2400~2483.5MHz (Band Edge @ 3m)

ANT	11g HT40_Ch09_Ant 3 + WIFI 802.11ac VHT80_Ch42_Ant 2 - L	
Simultaneously	Vertical	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE_74 3m 9120D_1522 VERTICAL Detector : Peak Project : 931316 Setting : 14	 Site : 03CH16-HY Condition : PEAK_74 3m 9120D_1522 VERTICAL Detector : Peak Project : 931316 Setting : 14
Avg.	 Site : 03CH16-HY Condition : AVG_BE_54 3m 9120D_1522 VERTICAL Detector : Peak Project : 931316 Setting : 14	 Site : 03CH16-HY Condition : AVG_54 3m 9120D_1522 VERTICAL Detector : Peak Project : 931316 Setting : 14

ANT	11g HT40_Ch09_Ant 3 + WIFI 802.11ac VHT80_Ch42_Ant 2 - R	
Simultaneously	Vertical	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE_74 3m 91200_1522 VERTICAL Detector : Peak Project : 931316 Setting : 14	Left blank
Avg.	 Site : 03CH16-HY Condition : AVG_BE_54 3m 91200_1522 VERTICAL Detector : Peak Project : 931316 Setting : 14	Left blank



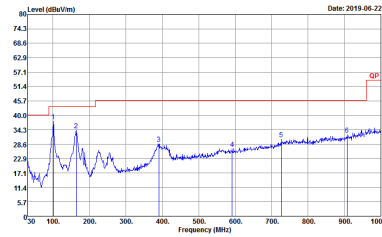
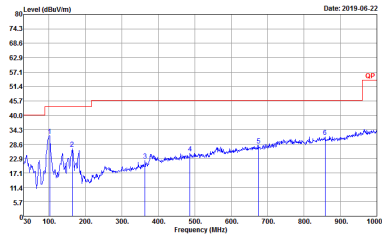
2.4GHz 2400~2483.5MHz and Band 1 5150~5250MHz (Harmonic @ 3m)

ANT	11g HT40_Ch09_Ant 3 + WIFI 802.11ac VHT80_Ch42_Ant 2	
Simultaneously	Horizontal	Vertical
Peak Avg.	 Site : 03CH16-HY Condition : PEAK(UNIT) 3m 91200_1522 HORIZONTAL Detector : Peak Project : 931316 ZAg Setting : 14 Sg Setting : 12.5	 Site : 03CH16-HY Condition : PEAK(UNIT) 3m 91200_1522 VERTICAL Detector : Peak Project : 931316 ZAg Setting : 14 Sg Setting : 12.5



Emission below 1GHz

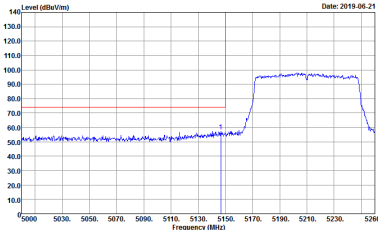
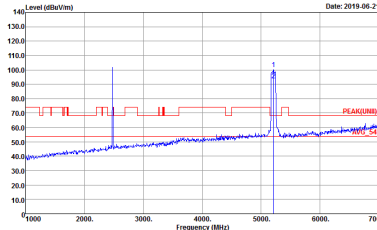
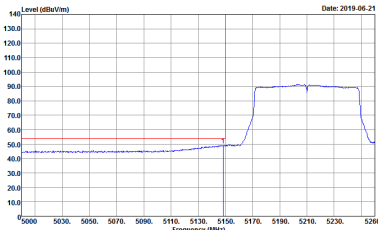
2.4GHz 2400~2483.5MHz + Band 1 5150~5250MHz (LF)

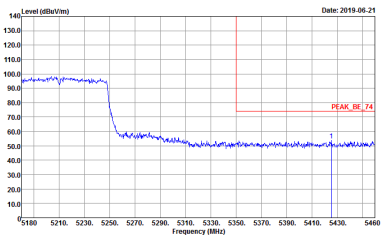
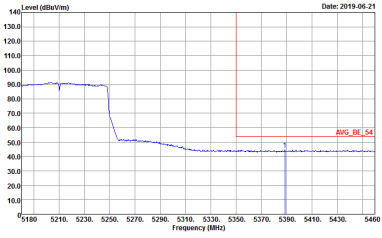
ANT	11g HT40_Ch09_Ant 3 + WIFI 802.11ac VHT80_Ch42_Ant 2	
Simultaneously	Horizontal	Vertical
QP / Peak	 Site : 03CH16-HY Condition : QP 3m B1L06_47020M06 HORIZONTAL Detector : Peak Project : 931316	 Site : 03CH16-HY Condition : QP 3m B1L06_47020M06 VERTICAL Detector : Peak Project : 931316



<Gaming Mode>

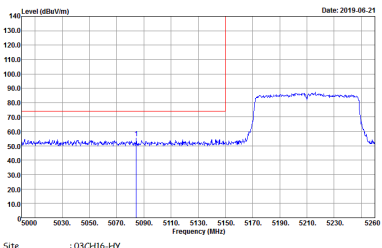
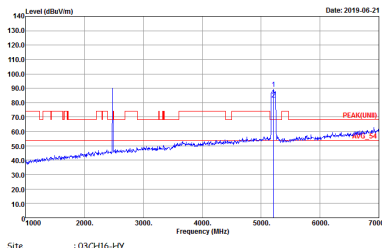
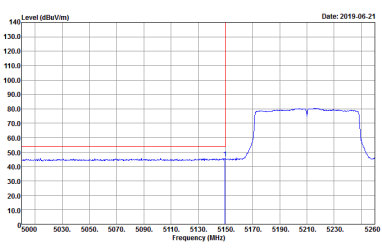
Band 1 5150~5250MHz (Band Edge @ 3m)

ANT	BT(1M)_Ch78_Ant 0 + WIFI 802.11ac VHT80_Ch42_Ant 1 - L	
Simultaneously	Horizontal	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE_74 3m 91200_1522 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 931316 Setting : 12.5	 Site : 03CH16-HY Condition : PEAK(UNIT) 3m 91200_1522 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 931316 Setting : 12.5
Avg.	 Site : 03CH16-HY Condition : AVG_BE_54 3m 91200_1522 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 931316 Setting : 12.5	Left blank

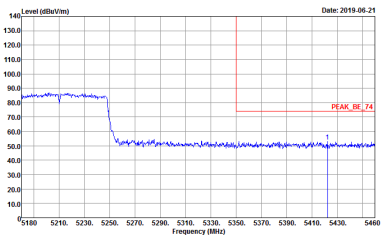
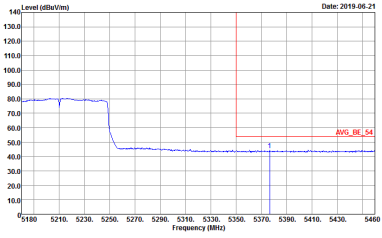
ANT	BLE_Ch39_Ant 0 + WIFI 802.11ac VHT80_Ch42_Ant 1 - R	
Simultaneously	Horizontal	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE_74 3m 91200_1522 HORIZONTAL Detector : Peak Project : 931316 Setting : 12.5	Left blank
Avg.	 Site : 03CH16-HY Condition : AVG_BE_54 3m 91200_1522 HORIZONTAL Detector : Peak Project : 931316 Setting : 12.5	Left blank



Band 1 5150~5250MHz (Band Edge @ 3m)

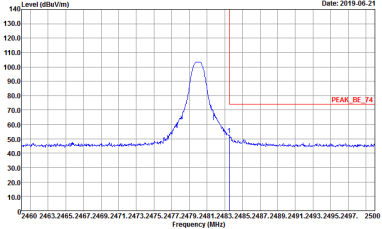
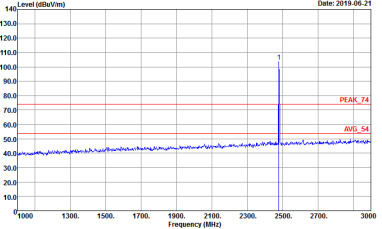
ANT	BT(1M)_Ch78_Ant 0 + WIFI 802.11ac VHT80_Ch42_Ant 1 - L	
Simultaneously	Vertical	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE_74 3m 9120D_1522 VERTICAL Detector : Peak Project : 931316 Setting : 12.5	 Site : 03CH16-HY Condition : PEAK(UNIT) 3m 9120D_1522 VERTICAL Detector : Peak Project : 931316 Setting : 12.5
Avg.	 Site : 03CH16-HY Condition : AVG_BE_54 3m 9120D_1522 VERTICAL Detector : Peak Project : 931316 Setting : 12.5	Left blank



ANT	BT(1M)_Ch78_Ant 0 + WIFI 802.11ac VHT80_Ch42_Ant 1 - R	
Simultaneously	Vertical	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE_74 3m 91200_1522 VERTICAL Detector : Peak Project : 931316 Setting : 12.5	Left blank
Avg.	 Site : 03CH16-HY Condition : AVG_BE_54 3m 91200_1522 VERTICAL Detector : Peak Project : 931316 Setting : 12.5	Left blank

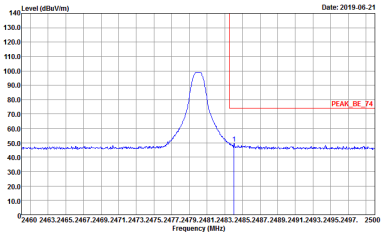
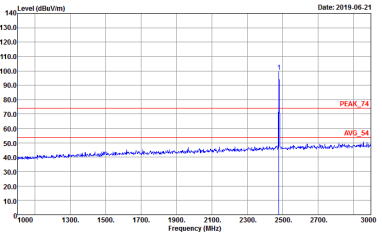


2.4GHz 2400~2483.5MHz (Band Edge @ 3m)

ANT	BT(1M)_Ch78_Ant 0 + WIFI 802.11ac VHT80_Ch42_Ant 1 - L	
Simultaneously	Horizontal	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_RE_74 3m 91200_1522 HORIZONTAL Detector : Peak Project : 931316	 Site : 03CH16-HY Condition : PEAK_74 3m 91200_1522 HORIZONTAL Detector : Peak Project : 931316
Avg.	Left blank	Left blank

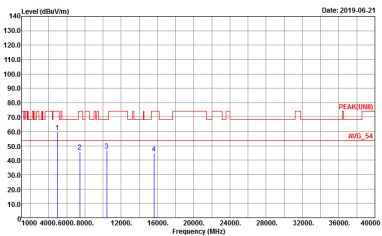
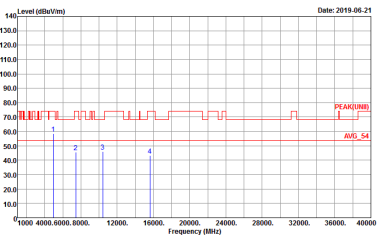


2.4GHz 2400~2483.5MHz (Band Edge @ 3m)

ANT	BT(1M)_Ch78_Ant 0 + WIFI 802.11ac VHT80_Ch42_Ant 1 - L	
Simultaneously	Vertical	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_RE_74 3m 91200_1522 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 931316	 Site : 03CH16-HY Condition : PEAK_RE_74 3m 91200_1522 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 931316
Avg.	Left blank	Left blank

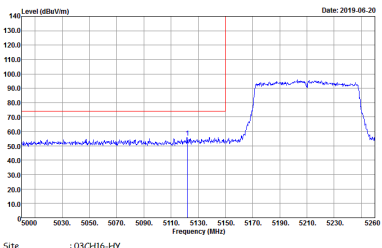
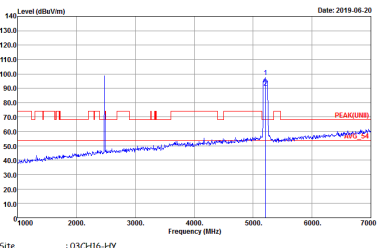
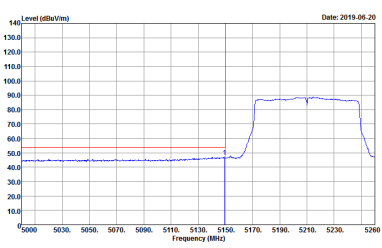


2.4GHz 2400~2483.5MHz and Band 1 5150~5250MHz (Harmonic @ 3m)

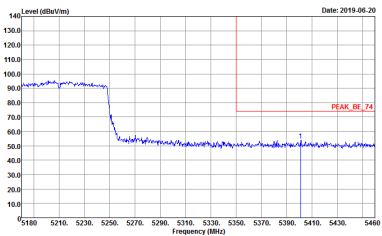
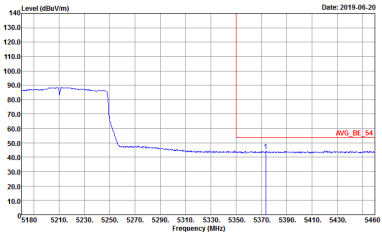
ANT	BT(1M)_Ch78_Ant 0 + WIFI 802.11ac VHT80_Ch42_Ant 1	
Simultaneously	Horizontal	Vertical
Peak Avg.	 Site : 03CH16-HY Condition : PEAK(UNIT) 3m 9120D_1522 HORIZONTAL Detector : Peak Project : 931316	 Site : 03CH16-HY Condition : PEAK(UNIT) 3m 9120D_1522 VERTICAL Detector : Peak Project : 931316



Band 1 5150~5250MHz (Band Edge @ 3m)

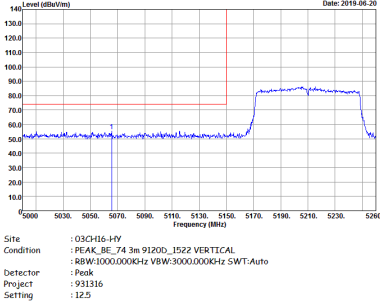
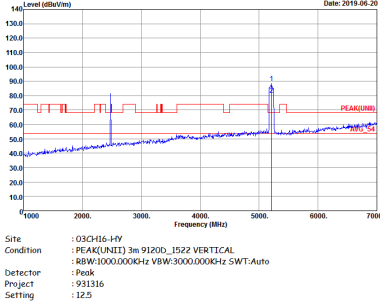
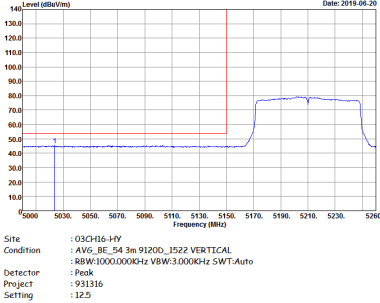
ANT	BLE_Ch39_Ant 0 + WIFI 802.11ac VHT80_Ch42_Ant 1 - L	
Simultaneously	Horizontal	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE_74 3m 91200_1522 HORIZONTAL Detector : Peak Project : 931316 Setting : 12.5	 Site : 03CH16-HY Condition : PEAK(UNIT) 3m 91200_1522 HORIZONTAL Detector : Peak Project : 931316 Setting : 12.5
Avg.	 Site : 03CH16-HY Condition : AVG_BE_54 3m 91200_1522 HORIZONTAL Detector : Peak Project : 931316 Setting : 12.5	Left blank

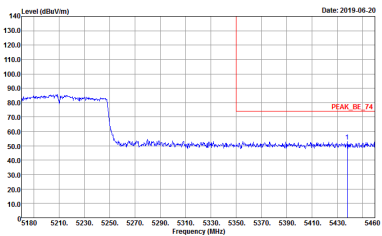
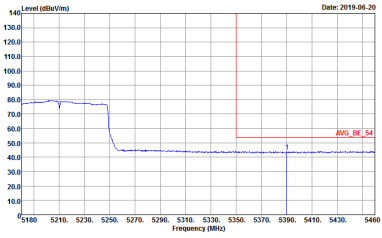


ANT	BLE_Ch39_Ant 0 + WIFI 802.11ac VHT80_Ch42_Ant 1 - R	
Simultaneously	Horizontal	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE_74 3m 91200_1522 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 931316 Setting : 12.5	Left blank
Avg.	 Site : 03CH16-HY Condition : AVG_BE_54 3m 91200_1522 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 931316 Setting : 12.5	Left blank

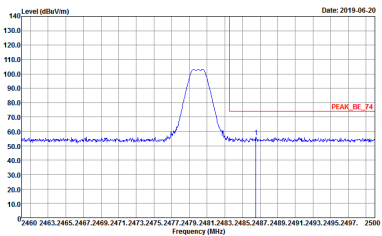
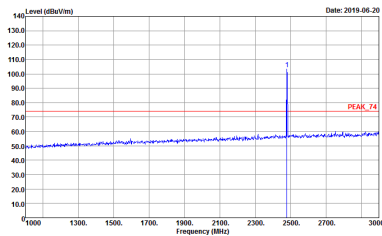
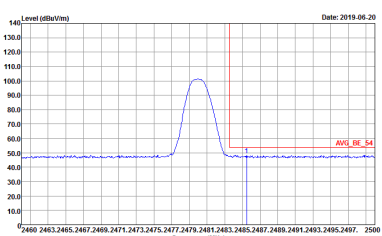
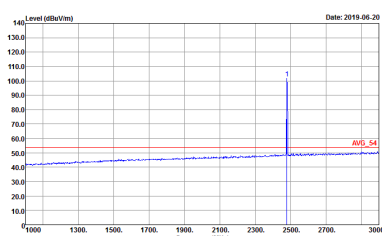


Band 1 5150~5250MHz (Band Edge @ 3m)

ANT	BLE_Ch39_Ant 0 + WIFI 802.11ac VHT80_Ch42_Ant 1 - L	
Simultaneously	Vertical	Fundamental
Peak		
Avg.		Left blank

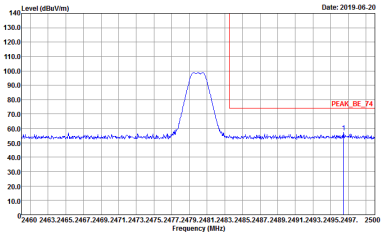
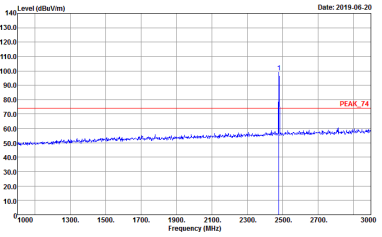
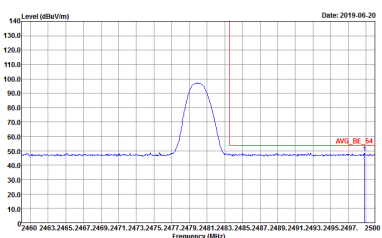
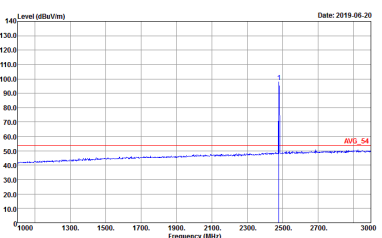
ANT	BLE_Ch39_Ant 0 + WIFI 802.11ac VHT80_Ch42_Ant 1 - R	
Simultaneously	Vertical	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE_74 3m 91200_1522 VERTICAL Detector : Peak Project : 931316 Setting : 12.5	Left blank
Avg.	 Site : 03CH16-HY Condition : AVG_BE_54 3m 91200_1522 VERTICAL Detector : Peak Project : 931316 Setting : 12.5	Left blank

2.4GHz 2400~2483.5MHz (Band Edge @ 3m)

ANT	BLE_Ch39_Ant 0 + WIFI 802.11ac VHT80_Ch42_Ant 1 - L	
Simultaneously	Horizontal	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE_74 3m 91200_1522 HORIZONTAL Detector : Peak Project : 931316	 Site : 03CH16-HY Condition : PEAK_74 3m 91200_1522 HORIZONTAL Detector : Peak Project : 931316
Avg.	 Site : 03CH16-HY Condition : AVG_BE_54 3m 91200_1522 HORIZONTAL Detector : Peak Project : 931316	 Site : 03CH16-HY Condition : AVG_54 3m 91200_1522 HORIZONTAL Detector : Peak Project : 931316



2.4GHz 2400~2483.5MHz (Band Edge @ 3m)

ANT	BLE_Ch39_Ant 0 + WIFI 802.11ac VHT80_Ch42_Ant 1 - L	
Simultaneously	Vertical	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE_74 3m 91200_1522 VERTICAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Detector : Peak Project : 931316	 Site : 03CH16-HY Condition : PEAK_74 3m 91200_1522 VERTICAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Detector : Peak Project : 931316
Avg.	 Site : 03CH16-HY Condition : AVG_BE_54 3m 91200_1522 VERTICAL RBW:1000.000kHz VBW:10.000kHz SWT:Auto Detector : Peak Project : 931316	 Site : 03CH16-HY Condition : AVG_54 3m 91200_1522 VERTICAL RBW:1000.000kHz VBW:10.000kHz SWT:Auto Detector : Peak Project : 931316

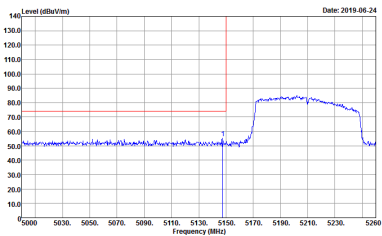
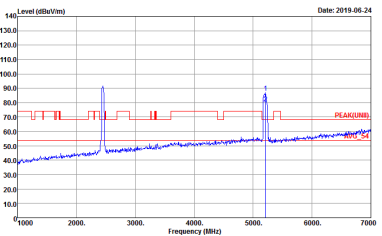
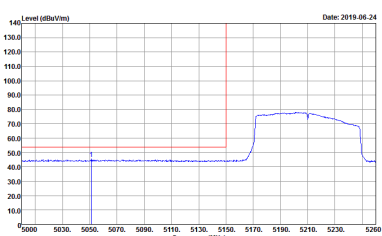


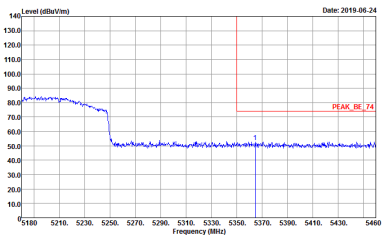
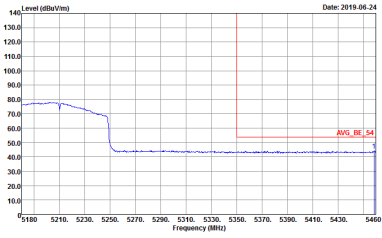
2.4GHz 2400~2483.5MHz and Band 1 5150~5250MHz (Harmonic @ 3m)

ANT	BLE_Ch39_Ant 0 + WIFI 802.11ac VHT80_Ch42_Ant 1	
Simultaneously	Horizontal	Vertical
Peak Avg.	Site : 03CH16-HY Condition : PEAK(UNIT) 3m 9120D_1522 HORIZONTAL Detector : Peak Project : 931316	Site : 03CH16-HY Condition : PEAK(UNIT) 3m 9120D_1522 VERTICAL Detector : Peak Project : 931316

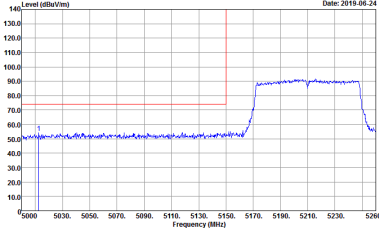
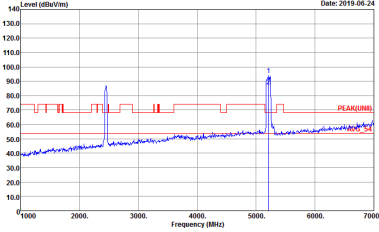
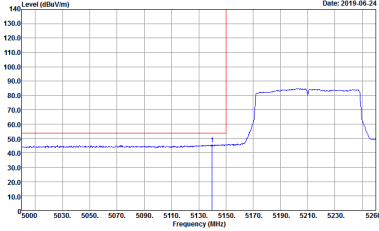


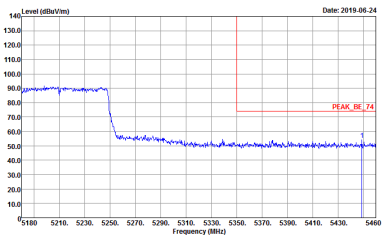
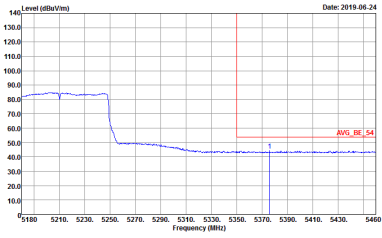
Band 1 5150~5250MHz (Band Edge @ 3m)

ANT	11g HT40_Ch09_Ant 0 + WIFI 802.11ac VHT80_Ch42_Ant 1 - L	
Simultaneously	Horizontal	Fundamental
Peak	 Level (dBuV/m) Frequency (MHz) Date: 2019-06-24 Site : 03CH16-HY Condition : PEAK_BE_74 3m 91200_1522 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 931316	 Level (dBuV/m) Frequency (MHz) Date: 2019-06-24 Site : 03CH16-HY Condition : PEAK(UNIT) 3m 91200_1522 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 931316
Avg.	 Level (dBuV/m) Frequency (MHz) Date: 2019-06-24 Site : 03CH16-HY Condition : AVG_BE_54 3m 91200_1522 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 931316	Left blank

ANT	11g HT40_Ch09_Ant 0 + WIFI 802.11ac VHT80_Ch42_Ant 1 - R	
Simultaneously	Horizontal	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE_74 3m 91200_1522 HORIZONTAL Detector : Peak Project : 931316	Left blank
Avg.	 Site : 03CH16-HY Condition : AVG_BE_54 3m 91200_1522 HORIZONTAL Detector : Peak Project : 931316	Left blank

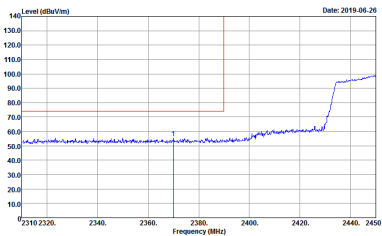
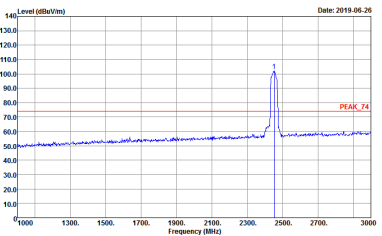
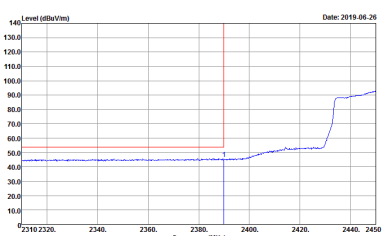
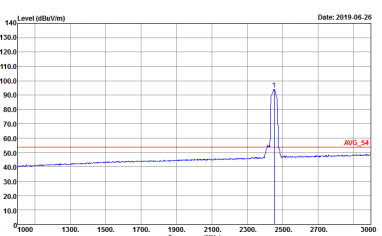
Band 1 5150~5250MHz (Band Edge @ 3m)

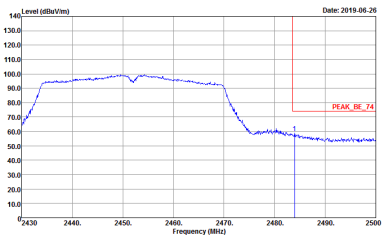
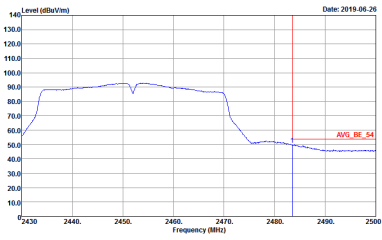
ANT	11g HT40_Ch09_Ant 0 + WIFI 802.11ac VHT80_Ch42_Ant 1 - L	
Simultaneously	Vertical	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE_74 3m 9120D_1522 VERTICAL Detector : Peak Project : 931316	 Site : 03CH16-HY Condition : PEAK(UNIT) 3m 9120D_1522 VERTICAL Detector : Peak Project : 931316
Avg.	 Site : 03CH16-HY Condition : AVG_BE_54 3m 9120D_1522 VERTICAL Detector : Peak Project : 931316	Left blank

ANT	11g HT40_Ch09_Ant 0 + WIFI 802.11ac VHT80_Ch42_Ant 1 - R	
Simultaneously	Vertical	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE_74 3m 91200_1522 VERTICAL Detector : Peak Project : 931316	Left blank
Avg.	 Site : 03CH16-HY Condition : AVG_BE_54 3m 91200_1522 VERTICAL Detector : Peak Project : 931316	Left blank



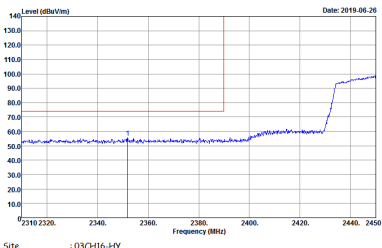
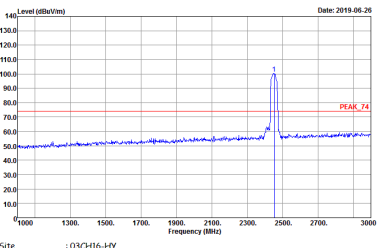
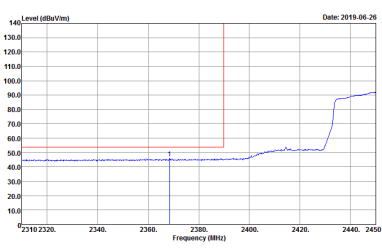
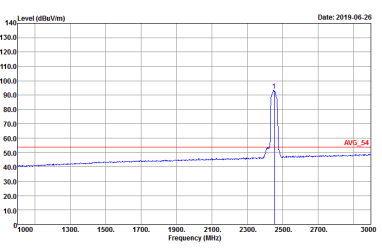
2.4GHz 2400~2483.5MHz (Band Edge @ 3m)

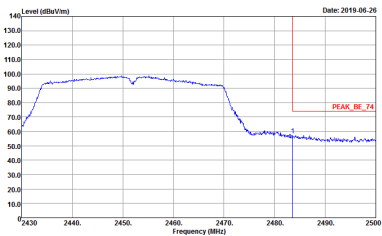
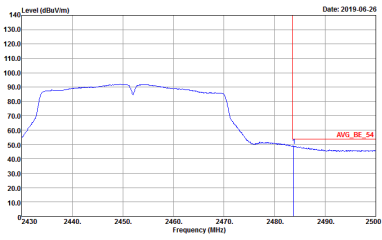
ANT	11g HT40_Ch09_Ant 0 + WIFI 802.11ac VHT80_Ch42_Ant 1 - L	
Simultaneously	Horizontal	Fundamental
Peak	 Level (dBuV/m) vs Frequency (MHz) plot. The y-axis ranges from 10 to 140 dBuV/m, and the x-axis ranges from 2310 to 2450 MHz. A red line indicates the noise floor at approximately 75 dBuV/m. A blue line shows the signal level, which rises sharply at 2400 MHz and levels off at approximately 95 dBuV/m. A vertical red line is drawn at 2400 MHz. Site : 03CH16-HY Condition : PEAK_BE_74 3m 91200_1522 HORIZONTAL Detector : Peak Project : 931316 Setting : 14	 Level (dBuV/m) vs Frequency (MHz) plot. The y-axis ranges from 10 to 140 dBuV/m, and the x-axis ranges from 1000 to 3000 MHz. A red line indicates the noise floor at approximately 75 dBuV/m. A blue line shows the signal level, which has a sharp peak at 2400 MHz reaching approximately 105 dBuV/m. A vertical red line is drawn at 2400 MHz. Site : 03CH16-HY Condition : PEAK_74 3m 91200_1522 HORIZONTAL Detector : Peak Project : 931316 Setting : 14
Avg.	 Level (dBuV/m) vs Frequency (MHz) plot. The y-axis ranges from 10 to 140 dBuV/m, and the x-axis ranges from 2310 to 2450 MHz. A red line indicates the noise floor at approximately 75 dBuV/m. A blue line shows the signal level, which rises sharply at 2400 MHz and levels off at approximately 95 dBuV/m. A vertical red line is drawn at 2400 MHz. Site : 03CH16-HY Condition : AVG_BE_54 3m 91200_1522 HORIZONTAL Detector : Peak Project : 931316 Setting : 14	 Level (dBuV/m) vs Frequency (MHz) plot. The y-axis ranges from 10 to 140 dBuV/m, and the x-axis ranges from 1000 to 3000 MHz. A red line indicates the noise floor at approximately 75 dBuV/m. A blue line shows the signal level, which has a sharp peak at 2400 MHz reaching approximately 105 dBuV/m. A vertical red line is drawn at 2400 MHz. Site : 03CH16-HY Condition : AVG_54 3m 91200_1522 HORIZONTAL Detector : Peak Project : 931316 Setting : 14

ANT	11g HT40_Ch09_Ant 0 + WIFI 802.11ac VHT80_Ch42_Ant 1 - R	
Simultaneously	Horizontal	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE_74 3m 91200_1522 HORIZONTAL Detector : Peak Project : 931316 Setting : 14	Left blank
Avg.	 Site : 03CH16-HY Condition : AVG_BE_54 3m 91200_1522 HORIZONTAL Detector : Peak Project : 931316 Setting : 14	Left blank



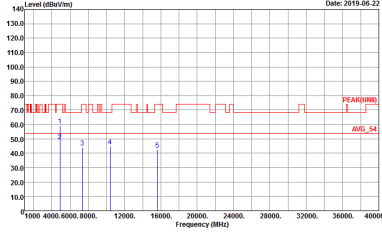
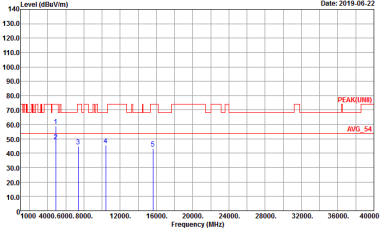
2.4GHz 2400~2483.5MHz (Band Edge @ 3m)

ANT	11g HT40_Ch09_Ant 0 + WIFI 802.11ac VHT80_Ch42_Ant 1 - L	
Simultaneously	Vertical	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE_74 3m 9120D_1522 VERTICAL Detector : Peak Project : 931316 Setting : 14	 Site : 03CH16-HY Condition : PEAK_74 3m 9120D_1522 VERTICAL Detector : Peak Project : 931316 Setting : 14
Avg.	 Site : 03CH16-HY Condition : AVG_BE_54 3m 9120D_1522 VERTICAL Detector : Peak Project : 931316 Setting : 14	 Site : 03CH16-HY Condition : AVG_54 3m 9120D_1522 VERTICAL Detector : Peak Project : 931316 Setting : 14

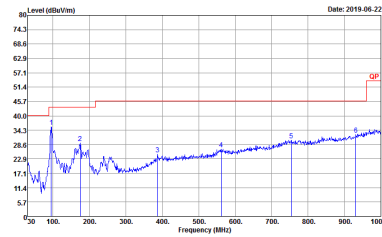
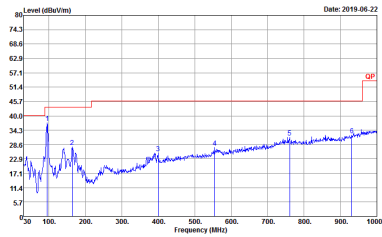
ANT	11g HT40_Ch09_Ant 0 + WIFI 802.11ac VHT80_Ch42_Ant 1 - R	
Simultaneously	Vertical	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE_74 3m 91200_1522 VERTICAL Detector : Peak Project : 931316 Setting : 14	Left blank
Avg.	 Site : 03CH16-HY Condition : AVG_BE_54 3m 91200_1522 VERTICAL Detector : Peak Project : 931316 Setting : 14	Left blank



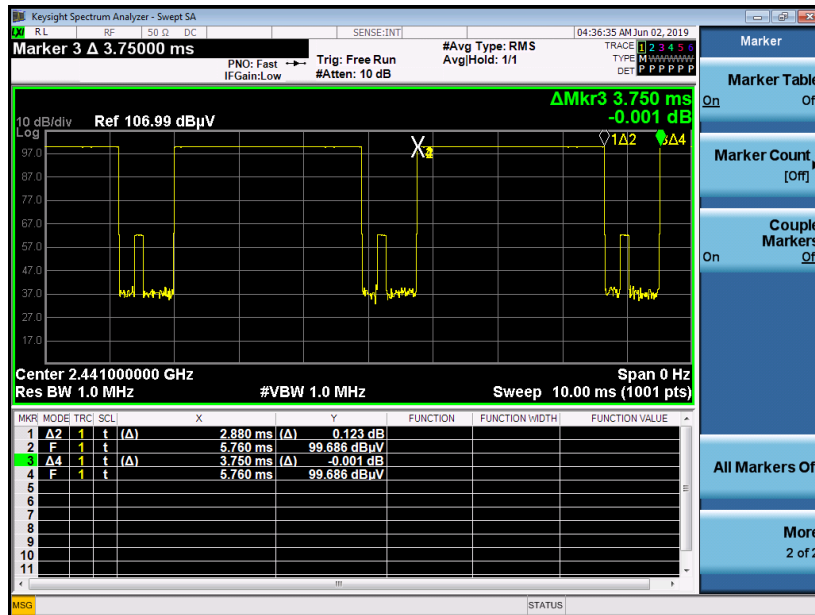
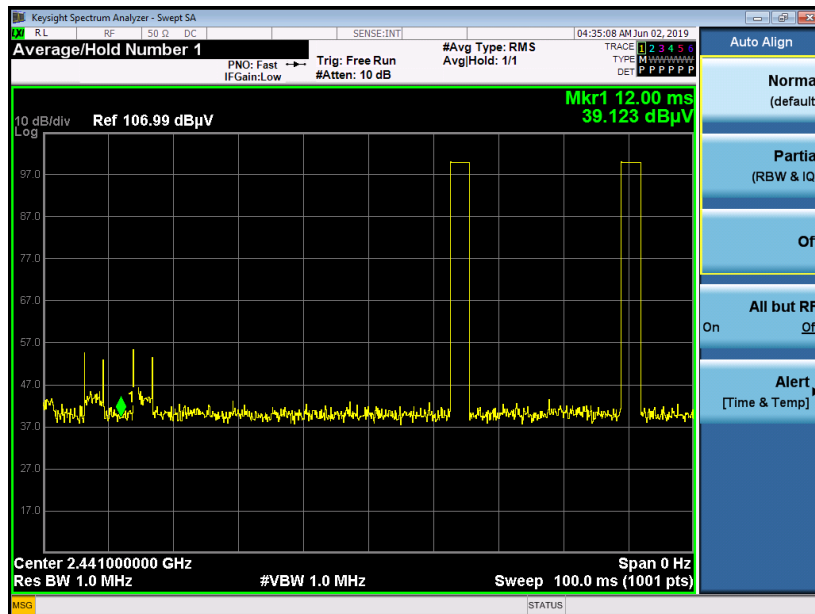
2.4GHz 2400~2483.5MHz and Band 1 5150~5250MHz (Harmonic @ 3m)

ANT	11g HT40_Ch09_Ant 0 + WIFI 802.11ac VHT80_Ch42_Ant 1	
Simultaneously	Horizontal	Vertical
Peak Avg.	 Site : 03CH16-HY Condition : PEAK(UNIT) 3m 91200_1522 HORIZONTAL Detector : Peak Project : 931316	 Site : 03CH16-HY Condition : PEAK(UNIT) 3m 91200_1522 VERTICAL Detector : Peak Project : 931316

Emission below 1GHz
2.4GHz 2400~2483.5MHz + Band 1 5150~5250MHz (LF)

ANT	11g HT40_Ch09_Ant 0 + WIFI 802.11ac VHT80_Ch42_Ant 1	
Simultaneously	Horizontal	Vertical
QP / Peak	 Site : 03CH16-HY Condition : QP 3m B1L06_47020M06 HORIZONTAL Detector : Peak Project : 931316	 Site : 03CH16-HY Condition : QP 3m B1L06_47020M06 VERTICAL Detector : Peak Project : 931316

Appendix C. Duty Cycle Plots

DH5 on time (One Pulse) Plot on Channel 39

on time (Count Pulses) Plot on Channel 39

Note:

1. Worst case Duty cycle = on time/100 milliseconds = $2 * 2.88 / 100 = 5.76 \%$
2. Worst case Duty cycle correction factor = $20 * \log(\text{Duty cycle}) = -24.79 \text{ dB}$
3. **DH5** has the highest duty cycle worst case and is reported.

**Duty Cycle Correction Factor Consideration for AFH mode:**

Bluetooth normal hopping rate is 1600Hz and reduced to 800Hz in AFH mode; due to the reduced number of hopping frequencies, with the same packet configuration the dwell time in each channel frequency within 100msec period is longer in AFH mode than normal mode.

In AFH mode, the minimum hopping frequencies are 20, to get the longest dwell time DH5 packet is observed; the period to have DH5 packet completing one hopping sequence is

$$2.88 \text{ ms} \times 20 \text{ channels} = 57.6 \text{ ms}$$

There cannot be 2 complete hopping sequences within 100ms period, considering the random hopping behavior, maximum 2 hops can be possibly observed within the period. $[100\text{ms} / 57.6\text{ms}] = 2 \text{ hops}$

Thus, the maximum possible ON time:

$$2.88 \text{ ms} \times 2 = 5.76 \text{ ms}$$

Worst case Duty Cycle Correction factor, which is derived from the maximum possible ON time,

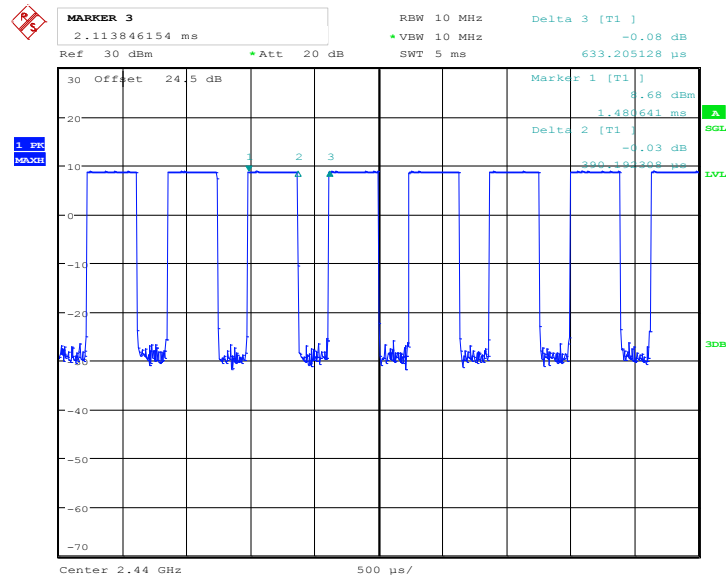
$$20 \times \log(5.76 \text{ ms}/100\text{ms}) = -24.79 \text{ dB}$$



Chain	Band	Duty Cycle(%)	T(us)	1/T(kHz)	VBW Setting	Duty Factor(dB)
0	Bluetooth – LE for 1Mbps	61.62	390	2.56	3kHz	2.10
0	Bluetooth – LE for 2Mbps	85	2132	0.47	1kHz	0.71
0+1	802.11g for Chain 0	98.11	2075	0.48	10Hz	0.08
0+1	802.11g for Chain 1	98.11	2075	0.48	10Hz	0.08
0+1	5GHz 802.11ac VHT80 for Chain 0	92.41	462	2.16	3kHz	0.34
0+1	5GHz 802.11ac VHT80 for Chain 1	91.57	457	2.19	3kHz	0.38

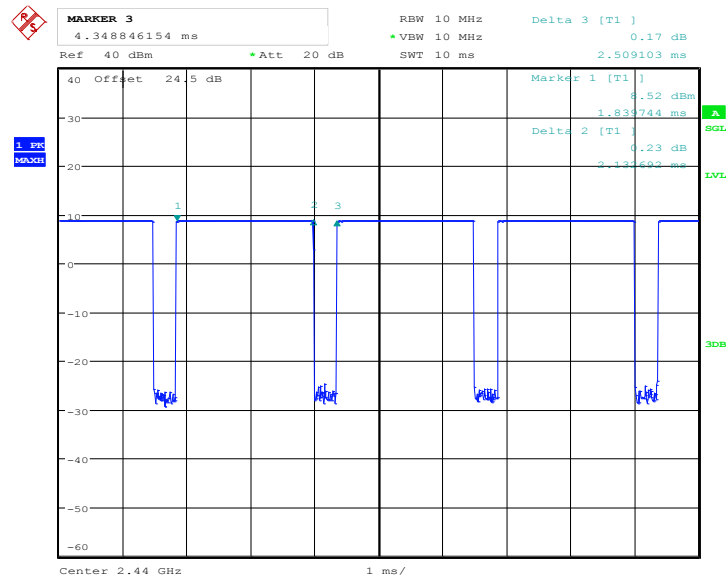


Bluetooth – LE for 1Mbps



Date: 15.MAY.2019 22:23:29

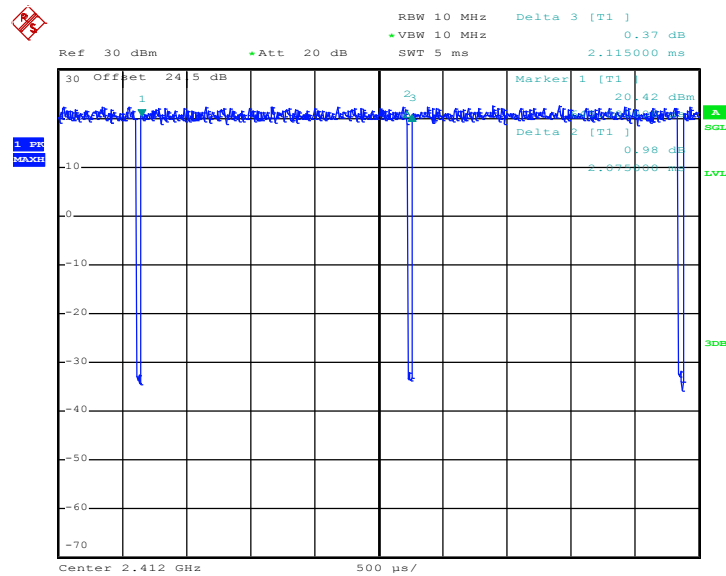
Bluetooth – LE for 2Mbps



Date: 15.MAY.2019 22:26:27

MIMO <Ant. 1>

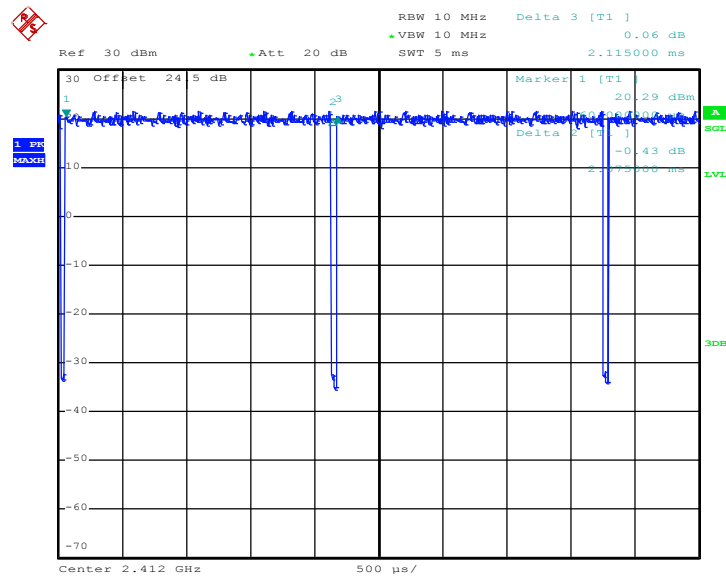
802.11g



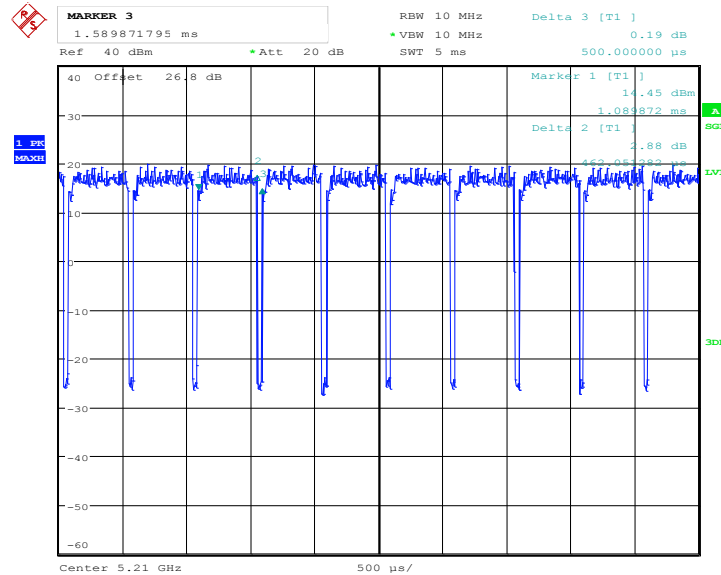
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MIMO <Ant. 2>

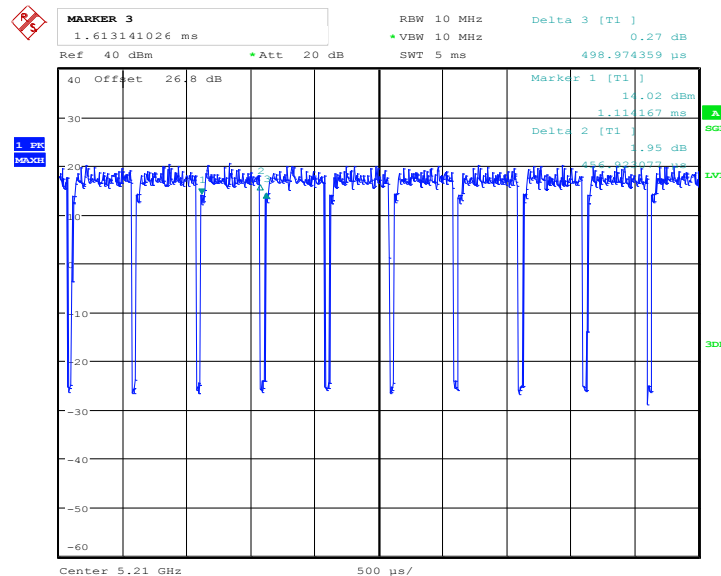
802.11g



Date: 13.MAY.2019 19:44:08

MIMO <Ant. 1>
802.11ac VHT80


Date: 14.MAY.2019 22:29:45

MIMO <Ant. 2>
802.11ac VHT80


Date: 14.MAY.2019 22:30:25