FCC RADIO TEST REPORT

FCC ID	:	**UZ7EC500K**
Equipment	:	**ENTERPRISE COMPUTER**
Brand Name	:	**ZEBRA**
Model Name	:	**EC500K**
Applicant	:	**ZEBRA TECHNOLOGIES CORPORATION** **1 ZEBRA PLAZA, HOLTSVILLE, NY 11742**
Manufacturer	:	**ZEBRA TECHNOLOGIES CORPORATION** **1 ZEBRA PLAZA, HOLTSVILLE, NY 11742**
Standard	:	**FCC Part 15 Subpart E §15.407**

The product was received on Jul. 09, 2020 and testing was started from Jul. 16, 2020 and completed on Aug. 31, 2020. 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 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.

Louis Wu

Approved by: Louis Wu

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
FR070601F	01	Initial issue of report	Sep. 11, 2020

Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.1	15.403 (i)	6dB & 26dB Bandwidth	Pass	-
3.1	2.1049	99% Occupied Bandwidth	Reporting only	-
3.2	15.407 (a)	Maximum Conducted Output Power	Pass	-
3.3	15.407 (a)	Power Spectral Density	Pass	-
3.4	15.407(b)	Unwanted Emissions	Pass	Under limit 1.22 dB at 5648.400 MHz
3.5	15.207	AC Conducted Emission	Pass	Under limit 7.70 dB at 0.152 MHz
3.6	15.407 (c)	Automatically Discontinue Transmission	Pass	-
3.7	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: Cindy Liu

1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature	
Equipment	Enterprise Computer
Brand Name	Zebra
Model Name	EC500K
FCC ID	UZ7EC500K
EUT supports Radios application	NFC WLAN 11a/b/g/n HT20/HT40 WLAN 11ac VHT20/VHT40/VHT80 Bluetooth BR/EDR/LE
HW Version	EV2
SW Version	Android version 10
FW Version	10-12-29.00-QG-U00-PRD-HEL-04
MFD	17JUN20 13JUN20 20JUN20 15JUN20
EUT Stage	Engineering Sample

Remark: The above EUT's information was declared by manufacturer.

Specification of Accessories				
AC Adapter	**Brand Name**	Zebra	**Part Number**	PWR-WUA5V15W0US
USB TYPE-C to TYPE-C cable	**Brand Name**	Zebra	**Part Number**	CBL-EC5X-USBC3A-01
Battery 1	**Brand Name**	Zebra	**Part Number**	BT-000424-00
Battery 2	**Brand Name**	Zebra	**Part Number**	BT-000424-08
Earphone 1	**Brand Name**	Zebra	**Part Number**	HDST-35MM-PTVP-01
Earphone 2	**Brand Name**	Zebra	**Part Number**	HS2100-OTH
USB TYPE C to 3.5mm audio connector	**Brand Name**	Symbol	**Part Number**	ADP-USBC-35MM1-01
3.5mm Jack 43"(1.1m) Standard Cable	**Brand Name**	Zebra	**Part Number**	CBL-HS2100-3MS1-01
Trigger Handle	**Brand Name**	Zebra	**Part Number**	TRG-EC5X-SNP1-01
Soft Holster	**Brand Name**	Zebra	**Part Number**	SG-EC5X-HLSTR1-01
Protective Boot	**Brand Name**	Zebra	**Part Number**	SG-EC5X-BOOT1-01

Sample list				
	Sample 1	**Sample 2**	**Sample 3**	**Sample 4**
Operating System	ANDROID	ANDROID	ANDROID	ANDROID
RAM	3GB RAM	4GB	4GB	3GB
FLASH	32GB	64GB	64GB	32GB
Scanner	SE4100	SE4100	SE4100	NO
Front Camera	NO	5MP	5MP	5MP
Rear Camera	13MP	13MP	13MP	13MP
	MICRO SD	MICRO SD	MICRO SD	MICRO SD
	GMS	GMS	GMS	GMS
Back connector	2-PIN	2-PIN	8-PIN	NO I/O CONNECTOR
	ROW - Excludes China	ROW - Excludes China	ROW - Excludes China	ROW - Excludes China

1.2 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx/Rx Channel Frequency Range	5745 MHz ~ 5825 MHz
Maximum Output Power to Antenna <CDD Modes>	**<Ant. 1>** 802.11a : 14.90 dBm / 0.0309 W 802.11n HT20 : 14.80 dBm / 0.0302 W 802.11n HT40 : 14.80 dBm / 0.0302 W 802.11ac VHT20: 14.90 dBm / 0.0309 W 802.11ac VHT40: 14.90 dBm / 0.0309 W 802.11ac VHT80: 14.60 dBm / 0.0288 W **<Ant. 2>** 802.11a : 14.80 dBm / 0.0302 W 802.11n HT20 : 14.80 dBm / 0.0302 W 802.11n HT40 : 14.80 dBm / 0.0302 W 802.11ac VHT20: 14.90 dBm / 0.0309 W 802.11ac VHT40: 14.90 dBm / 0.0309 W 802.11ac VHT80: 14.70 dBm / 0.0295 W **MIMO <Ant. 1 + 2>** 802.11a : 18.76 dBm / 0.0752 W 802.11n HT20 : 18.71 dBm / 0.0743 W 802.11n HT40 : 18.66 dBm / 0.0735 W 802.11ac VHT20: 18.81 dBm / 0.0760 W 802.11ac VHT40: 18.76 dBm / 0.0752 W 802.11ac VHT80: 18.81 dBm / 0.0760 W
Maximum Output Power <TXBF Modes>	**MIMO <Ant. 1 + 2>** 802.11ac VHT20: 18.46 dBm / 0.0701 W 802.11ac VHT40: 18.31 dBm / 0.0678 W 802.11ac VHT80: 18.37 dBm / 0.0687 W

<table>
<tr><th colspan="2">Standards-related Product Specification</th></tr>
<tr><td>99% Occupied Bandwidth
<CDD Modes></td><td><Ant. 1>
802.11a : 16.70 MHz
802.11ac VHT20 : 17.90 MHz
802.11ac VHT40 : 36.60 MHz
802.11ac VHT80 : 76.68 MHz
<Ant. 2>
802.11a : 16.65 MHz
802.11n HT20 : 17.90 MHz
802.11n HT40 : 36.50 MHz
802.11ac VHT80 : 76.92 MHz
MIMO <Ant. 1>
802.11a : 16.70 MHz
802.11ac VHT20 : 17.90 MHz
802.11ac VHT40 : 36.70 MHz
802.11ac VHT80 : 76.80 MHz
MIMO <Ant. 2>
802.11a : 16.70 MHz
802.11n HT20 : 17.90 MHz
802.11n HT40 : 36.60 MHz
802.11ac VHT80 : 76.92 MHz</td></tr>
<tr><td>99% Occupied Bandwidth
<TXBF Modes></td><td>MIMO <Ant. 1>
802.11ac VHT20 : 18.03 MHz
802.11ac VHT40 : 36.66 MHz
802.11ac VHT80 : 76.84 MHz
MIMO <Ant. 2>
802.11ac VHT20 : 17.88 MHz
802.11ac VHT40 : 36.56 MHz
802.11ac VHT80 : 76.72 MHz</td></tr>
<tr><td>Antenna type / Gain</td><td>Ant. 1: PIFA Antenna with gain 3.6 dBi
Ant. 2: PIFA Antenna with gain 4.1 dBi</td></tr>
<tr><td>Type of Modulation</td><td>802.11a/n : OFDM (BPSK / QPSK / 16QAM / 64QAM)
802.11ac : OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM)</td></tr>
<tr><td>Antenna Function Description</td><td><table><tr><th></th><th>Ant. 1</th><th>Ant. 2</th></tr><tr><td>802.11 a/n/ac</td><td>V</td><td>V</td></tr><tr><td>802.11 a/n/ac MIMO</td><td>V</td><td>V</td></tr><tr><td>802.11ac TXBF</td><td>V</td><td>V</td></tr></table></td></tr>
</table>

Note: MIMO Ant. 1+2 is a calculated result from sum of the power MIMO Ant. 1 and MIMO Ant. 2.

1.3 Modification of EUT

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

1.4 Testing Location

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

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

Test Site	SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory
Test Site Location	No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978
Test Site No.	**Sporton Site No.**
	03CH16-HY

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

FCC designation No.: TW1190 and TW0007

1.5 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.
- 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. The TAF code is not including all the FCC KDB listed without accreditation.
3. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

2 Test Configuration of Equipment Under Test

a. The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: conduction emission (150 kHz to 30 MHz), radiation emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases (CDD Mode: X plane for Ant. 1 and Ant. 2, Z plane for MIMO Ant. 1+2; TXBF Mode: X plane with Notebook) were recorded in this report.

b. AC power line Conducted Emission was tested under maximum output power.

2.1 Carrier Frequency and Channel

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

Note:

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

2.2 Test Mode

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

CDD Mode

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

TXBF Mode

Modulation	Data Rate
802.11ac VHT20	MCS0
802.11ac VHT40	MCS0
802.11ac VHT80	MCS6

Test Cases	
AC Conducted Emission	Mode 1 : WLAN (5GHz) Link + Bluetooth Link + NFC active + Battery 1 + MPEG4 (Color bar) + USB Cable (Charging with AC Adapter) for Sample 1
Remark: For Radiated Test Cases, the tests were performed with Battery 1 and Sample 1.	

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

Remark: For radiation spurious emission, the final modulation and the worst data rate was reference the max RF conducted power.

<CDD Mode>

<Ant. 1>

802.11a RF Output Power (dBm)										
Power vs. Channel			Power vs Data Rate							
Channel	Frequency (MHz)	Data Rate (bps)	Channel	Data Rate (bps)						
		6M		9M	12M	18M	24M	36M	48M	54M
CH 149	5745	**14.90**	CH 149	14.80	14.80	14.70	14.80	14.70	14.60	14.60
CH 157	5785	14.70								
CH 165	5825	14.70								

802.11n HT20 RF Output Power (dBm)										
Power vs. Channel			Power vs Data Rate							
Channel	Frequency (MHz)	Data Rate (bps)	Channel	Data Rate (bps)						
		MCS0		MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
CH 149	5745	**14.80**	CH 149	14.70	14.60	14.60	14.60	14.60	14.70	14.70
CH 157	5785	14.60								
CH 165	5825	14.70								

802.11n HT40 RF Output Power (dBm)										
Power vs. Channel			Power vs Data Rate							
Channel	Frequency (MHz)	Data Rate (bps)	Channel	Data Rate (bps)						
		MCS0		MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
CH 151	5755	**14.80**	CH 151	14.7	14.7	14.6	14.6	14.7	14.7	14.5
CH 159	5795	14.60								

802.11ac VHT20 RF Output Power (dBm)										
Power vs. Channel			Power vs Data Rate							
Channel	Frequency (MHz)	Data Rate (bps) MCS0	Channel	Data Rate (bps) MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8
CH 149	5745	**14.90**	CH 149	14.80	14.70	14.70	14.70	14.70	14.80	14.80	14.70
CH 157	5785	14.70									
CH 165	5825	14.80									

802.11ac VHT40 RF Output Power (dBm)										
Power vs. Channel			Power vs Data Rate							
Channel	Frequency (MHz)	Data Rate (bps) MCS0	Channel	Data Rate (bps) MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8	MCS9
CH 151	5755	**14.90**	CH 151	14.8	14.8	14.7	14.7	14.8	14.8	14.6	14.6	14.6
CH 159	5795	14.70										

802.11ac VHT80 RF Output Power (dBm)										
Power vs. Channel			Power vs Data Rate							
Channel	Frequency (MHz)	Data Rate (bps) MCS0	Channel	Data Rate (bps) MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8	MCS9
CH 155	5775	**14.60**	CH 155	14.50	14.50	14.40	14.40	14.30	14.30	14.50	14.50	14.40

<Ant. 2>

802.11a RF Output Power (dBm)										
Power vs. Channel			Power vs Data Rate							
Channel	Frequency (MHz)	Data Rate (bps)	Channel	Data Rate (bps)						
		6M		9M	12M	18M	24M	36M	48M	54M
CH 149	5745	**14.80**	CH 149	14.70	14.70	14.60	14.60	14.60	14.50	14.50
CH 157	5785	14.70								
CH 165	5825	14.70								

802.11n HT20 RF Output Power (dBm)										
Power vs. Channel			Power vs Data Rate							
Channel	Frequency (MHz)	Data Rate (bps)	Channel	Data Rate (bps)						
		MCS0		MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
CH 149	5745	14.60	CH 165	14.70	14.60	14.60	14.60	14.60	14.50	14.50
CH 157	5785	14.60								
CH 165	5825	**14.80**								

802.11n HT40 RF Output Power (dBm)										
Power vs. Channel			Power vs Data Rate							
Channel	Frequency (MHz)	Data Rate (bps)	Channel	Data Rate (bps)						
		MCS0		MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
CH 151	5755	14.60	CH 159	14.7	14.6	14.6	14.5	14.5	14.5	14.4
CH 159	5795	**14.80**								

802.11ac VHT20 RF Output Power (dBm)										
Power vs. Channel			Power vs Data Rate							
Channel	Frequency (MHz)	Data Rate (bps)	Channel	Data Rate (bps)						
		MCS0		MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8
CH 149	5745	14.70	CH 165	14.80	14.70	14.70	14.70	14.70	14.60	14.60	14.60
CH 157	5785	14.70									
CH 165	5825	**14.90**									

802.11ac VHT40 RF Output Power (dBm)											
Power vs. Channel			Power vs Data Rate								
Channel	Frequency (MHz)	Data Rate (bps) MCS0	Channel	Data Rate (bps) MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8	MCS9
CH 151	5755	14.70	CH 159	14.8	14.7	14.7	14.6	14.6	14.6	14.5	14.5	14.5
CH 159	5795	**14.90**										

802.11ac VHT80 RF Output Power (dBm)											
Power vs. Channel			Power vs Data Rate								
Channel	Frequency (MHz)	Data Rate (bps) MCS0	Channel	Data Rate (bps) MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8	MCS9
CH 155	5775	**14.70**	CH 155	14.60	14.60	14.50	14.50	14.50	14.50	14.50	14.40	14.40

MIMO <Ant. 1+2>

802.11a RF Output Power (dBm)										
Power vs. Channel			Power vs Data Rate							
Channel	Frequency (MHz)	Data Rate (bps) 6M	Channel	Data Rate (bps) 9M	12M	18M	24M	36M	48M	54M
CH 149	5745	18.46	CH 157	18.66	18.66	18.56	18.56	18.66	18.66	18.66
CH 157	5785	**18.76**								
CH 165	5825	**18.76**								

802.11n HT20 RF Output Power (dBm)										
Power vs. Channel			Power vs Data Rate							
Channel	Frequency (MHz)	Data Rate (bps) MCS0	Channel	Data Rate (bps) MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
CH 149	5745	**18.71**	CH 149	18.61	18.51	18.51	18.51	18.41	18.41	18.31
CH 157	5785	18.66								
CH 165	5825	18.61								

802.11n HT40 RF Output Power (dBm)										
Power vs. Channel			Power vs Data Rate							
Channel	Frequency (MHz)	Data Rate (bps) MCS0	Channel	Data Rate (bps) MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
CH 151	5755	**18.66**	CH 151	18.56	18.46	18.46	18.46	18.46	18.46	18.36
CH 159	5795	18.51								

802.11ac VHT20 RF Output Power (dBm)											
Power vs. Channel			Power vs Data Rate								
Channel	Frequency (MHz)	Data Rate (bps) MCS0	Channel	Data Rate (bps) MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8
CH 149	5745	**18.81**	CH 149	18.71	18.61	18.61	18.61	18.51	18.51	18.41	18.41
CH 157	5785	18.76									
CH 165	5825	18.71									

802.11ac VHT40 RF Output Power (dBm)											
Power vs. Channel			Power vs Data Rate								
Channel	Frequency (MHz)	Data Rate (bps) MCS0	Channel	Data Rate (bps) MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8	MCS9
CH 151	5755	**18.76**	CH 151	18.66	18.56	18.56	18.56	18.56	18.56	18.46	18.46	18.56
CH 159	5795	18.61										

802.11ac VHT80 RF Output Power (dBm)											
Power vs. Channel			Power vs Data Rate								
Channel	Frequency (MHz)	Data Rate (bps) MCS0	Channel	Data Rate (bps) MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8	MCS9
CH 155	5775	**18.81**	CH 155	18.71	18.71	18.51	18.51	18.51	18.41	18.36	18.31	18.41

<TXBF Mode>

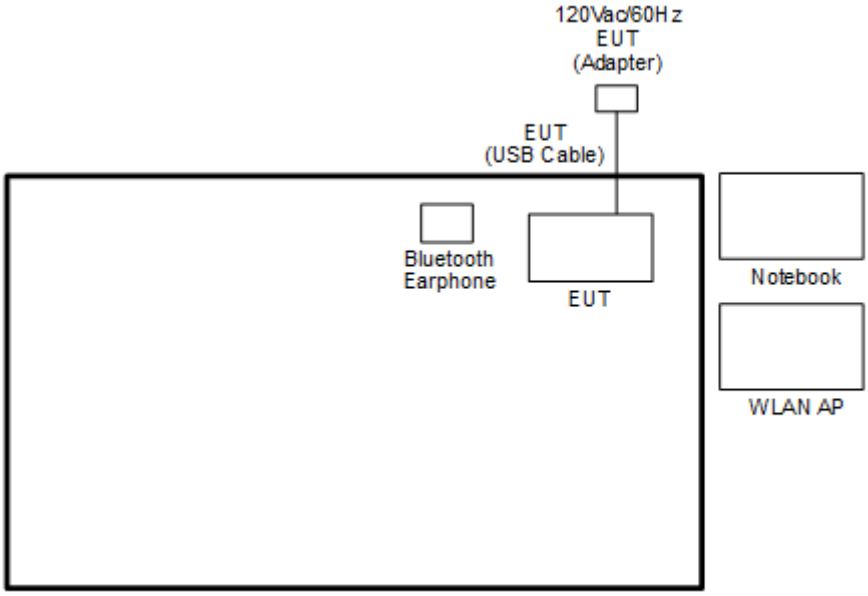
802.11ac VHT20 RF Output Power (dBm)											
Power vs. Channel			Power vs Data Rate								
Channel	Frequency (MHz)	Data Rate (bps) MCS0	Channel	Data Rate (bps) MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8
CH 149	5745	18.36	CH 165	18.36	18.36	18.36	18.36	18.36	18.36	18.36	18.36
CH 157	5785	18.41									
CH 165	5825	**18.46**									

802.11ac VHT40 RF Output Power (dBm)											
Power vs. Channel			Power vs Data Rate								
Channel	Frequency (MHz)	Data Rate (bps) MCS0	Channel	Data Rate (bps) MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8	MCS9
CH 151	5755	**18.31**	CH 151	18.05	18.11	18.16	18.11	18.21	18.16	18.06	18.11	18.06
CH 159	5795	18.26										

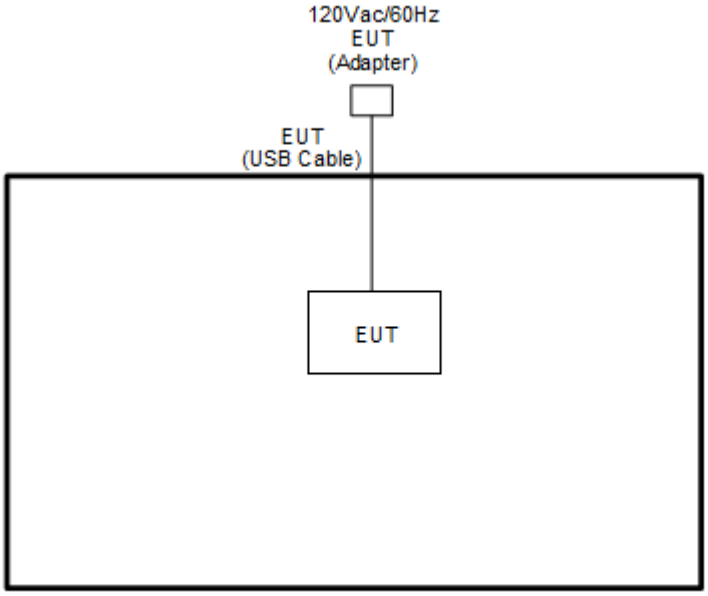
802.11ac VHT80 RF Output Power (dBm)											
Power vs. Channel			Power vs Data Rate								
Channel	Frequency (MHz)	Data Rate (bps) MCS0	Channel	Data Rate (bps) MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8	MCS9
CH 155	5775	**18.37**	CH 155	18.27	18.27	18.27	18.01	18.01	18.01	18.01	18.01	18.01

2.3 Connection Diagram of Test System

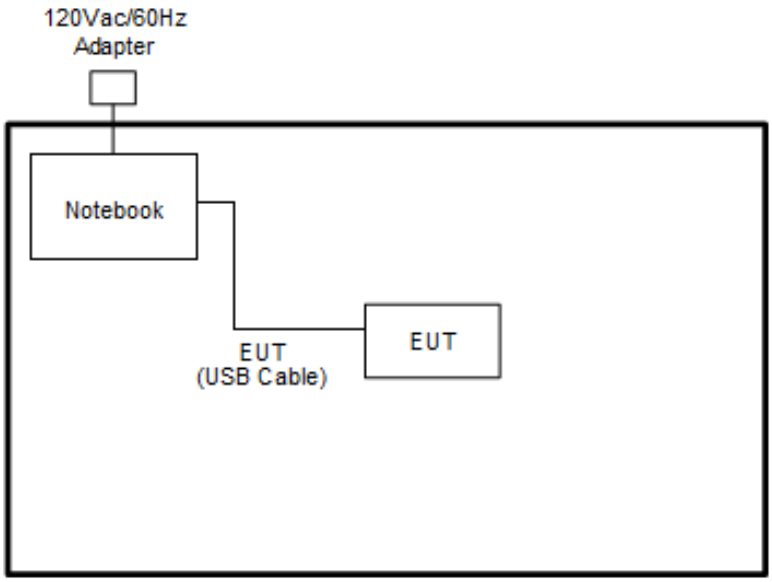
<AC Conducted Emission Mode>



<CDD Mode>



<TXBF Mode>



2.4 Support Unit used in test configuration and system

Item	Equipment	Brand Name	Model Name	FCC ID	Data Cable	Power Cord
1.	Bluetooth Earphone	Sony Ericsson	MW600	PY7DDA-2029	N/A	N/A
2.	WLAN AP	ASUS	RT-AC66U	N/A	N/A	Unshielded,1.8m
3.	Notebook	DELL	Latitude 3400	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
4.	Notebook	DELL	Latitude 5480	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
5.	Notebook	Lenovo	L570	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
6.	SD Card	SanDisk	MicroSD HC	FCC DoC	N/A	N/A
7.	Phone	Zebra	TC77HL	N/A	N/A	N/A

2.5 EUT Operation Test Setup

The RF test items, utility “QRCT 4” 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.

For TXBF mode, the modulation modes and data rates manipulated by the command lines in the engineering program made the EUT link to another EUT by power under the normal operation. The “adb” software tool was used to enable the EUT to transmit signals continuously.

2.6 Measurement Results Explanation Example

For all conducted test items:

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

Example :

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

Offset = RF cable loss + attenuator factor.

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

Offset(dB) = RF cable loss(dB) + attenuator factor(dB).

= 4.2 + 10 = 14.2 (dB)

3 Test Result

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

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

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

26dB and 99% Occupied bandwidth are reporting only.

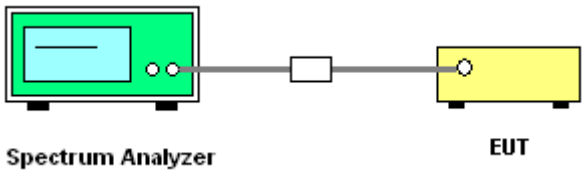
3.1.2 Measuring Instruments

See list of measuring equipment of this test report.

3.1.3 Test Procedures

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

3.1.4 Test Setup



3.1.5 Test Result of 6dB and 26dB and 99% Occupied Bandwidth

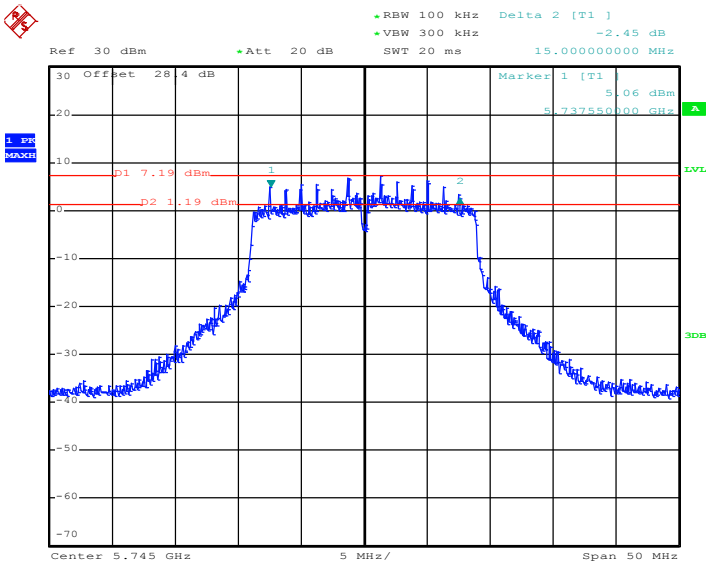
Test Engineer :	Hank Hsu, Shiming Liu and Mina Liu	Temperature :	23.5~24.3℃
		Relative Humidity :	49~55%

<CDD Mode>

Band IV												
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth (MHz)		26dB Bandwidth (MHz)		6 dB Bandwidth (MHz)		6 dB Bandwidth Min. Limit (MHz)	Pass/Fail
					Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	1	149	5745	16.70	16.65	24.20	24.40	15.55	15.55	0.5	Pass
11a	6Mbps	1	157	5785	16.60	16.65	24.40	24.15	15.40	15.10	0.5	Pass
11a	6Mbps	1	165	5825	16.70	16.65	24.50	24.15	15.35	15.35	0.5	Pass
VHT20	MCS0	1	149	5745	17.85	17.85	25.30	25.60	16.50	16.00	0.5	Pass
VHT20	MCS0	1	157	5785	17.90	17.90	25.75	25.30	15.90	16.50	0.5	Pass
VHT20	MCS0	1	165	5825	17.90	17.85	26.45	25.45	16.50	15.59	0.5	Pass
VHT40	MCS0	1	151	5755	36.60	36.50	41.76	41.79	35.64	35.07	0.5	Pass
VHT40	MCS0	1	159	5795	36.60	36.50	41.94	41.76	35.46	35.76	0.5	Pass
VHT80	MCS0	1	155	5775	76.68	**76.92**	83.84	**84.15**	75.20	73.92	0.5	Pass
11a	6Mbps	2	149	5745	16.70	16.70	24.50	24.20	15.10	15.10	0.5	Pass
11a	6Mbps	2	157	5785	16.65	16.65	24.40	24.70	15.80	15.10	0.5	Pass
11a	6Mbps	2	165	5825	16.70	16.70	24.35	24.90	15.60	15.05	0.5	Pass
VHT20	MCS0	2	149	5745	17.90	17.90	25.95	25.20	16.55	15.00	0.5	Pass
VHT20	MCS0	2	157	5785	17.85	17.85	26.00	25.15	16.50	15.10	0.5	Pass
VHT20	MCS0	2	165	5825	17.85	17.85	25.70	25.40	15.10	15.70	0.5	Pass
VHT40	MCS0	2	151	5755	36.70	36.60	41.76	41.94	34.98	35.64	0.5	Pass
VHT40	MCS0	2	159	5795	36.50	36.60	41.76	41.94	35.64	35.70	0.5	Pass
VHT80	MCS0	2	155	5775	76.80	**76.92**	83.75	**83.86**	75.20	75.20	0.5	Pass

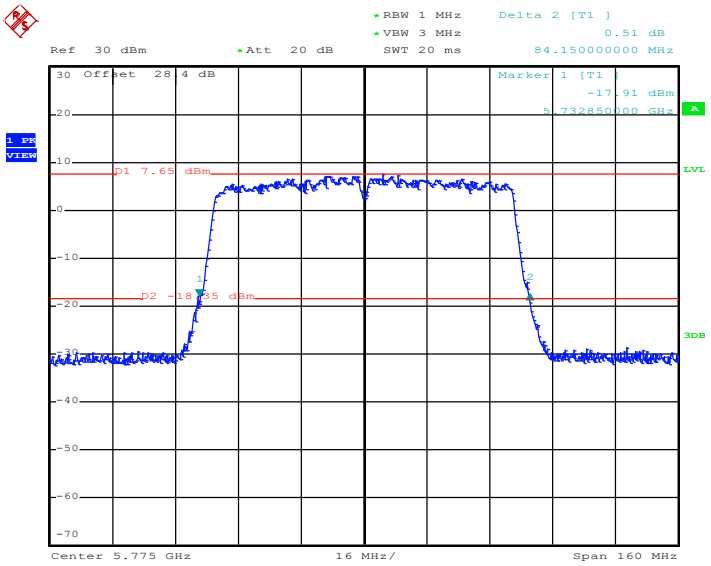
<CDD Mode>

Minimum 6dB Bandwidth



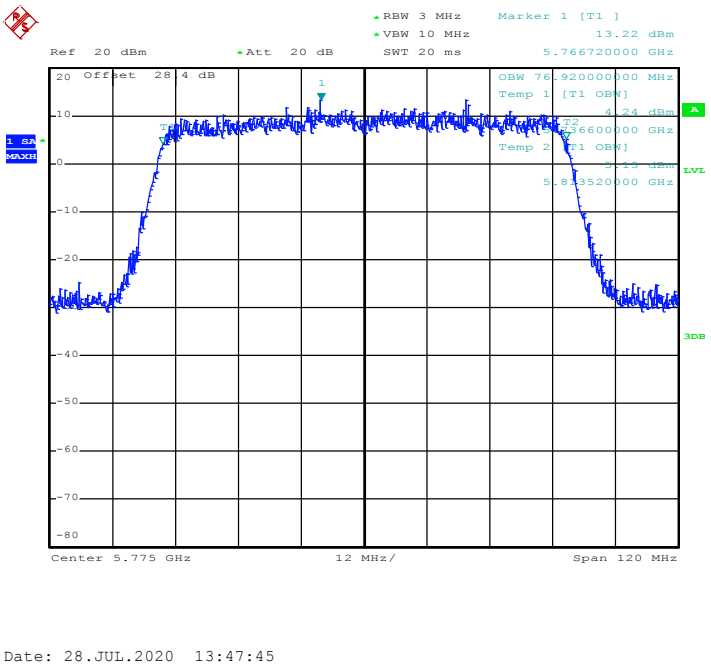
Date: 27.JUL.2020 21:28:14

Maximum 26dB Bandwidth



Date: 28.JUL.2020 13:48:45

Maximum 99% Occupied Bandwidth



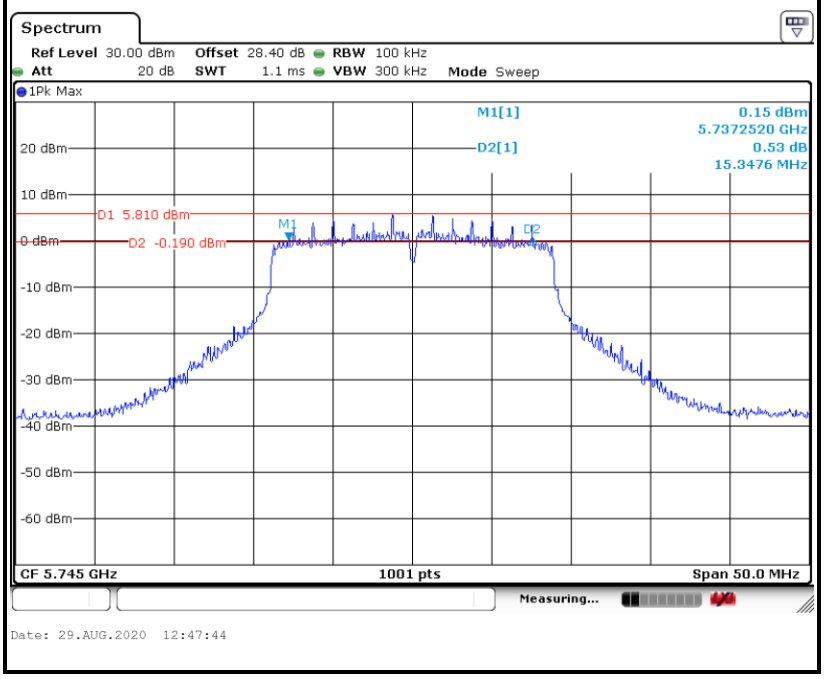
Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

Test Engineer :	Shiming Liu	Temperature :	23.9~24.5℃
		Relative Humidity :	53~54%

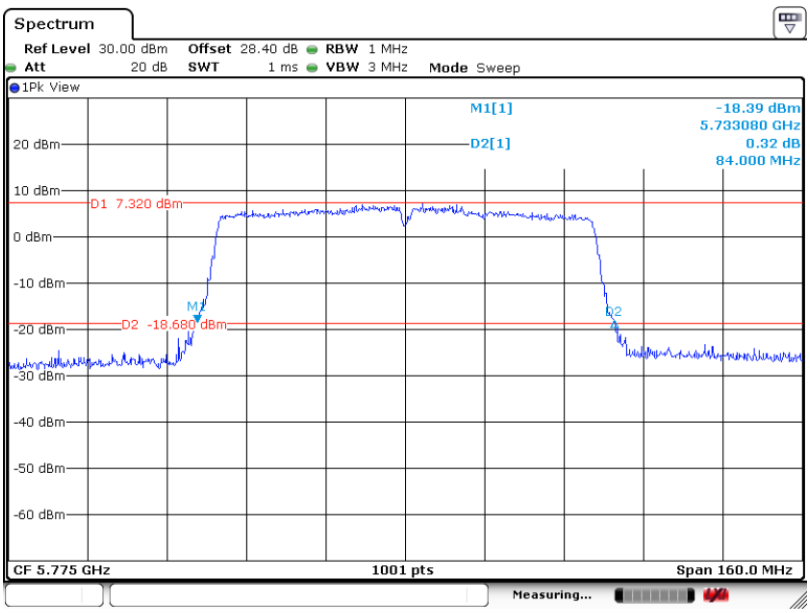
<TXBF Mode>

Band IV												
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth (MHz)		26dB Bandwidth (MHz)		6 dB Bandwidth (MHz)		6 dB Bandwidth Min. Limit (MHz)	Pass/Fail
					Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2		
VHT20	MCS0	2	149	5775	17.98	17.83	25.90	25.55	15.35	16.95	0.5	Pass
VHT20	MCS0	2	157	5785	18.03	17.88	26.70	26.25	15.90	17.50	0.5	Pass
VHT20	MCS0	2	165	5825	17.98	17.83	26.05	25.65	15.95	16.89	0.5	Pass
VHT40	MCS0	2	151	5755	36.56	36.56	42.12	42.21	35.10	35.73	0.5	Pass
VHT40	MCS0	2	159	5795	36.66	36.56	42.84	42.12	35.33	35.69	0.5	Pass
VHT80	MCS6	2	155	5775	**76.84**	76.72	**84.00**	83.12	76.32	75.36	0.5	Pass

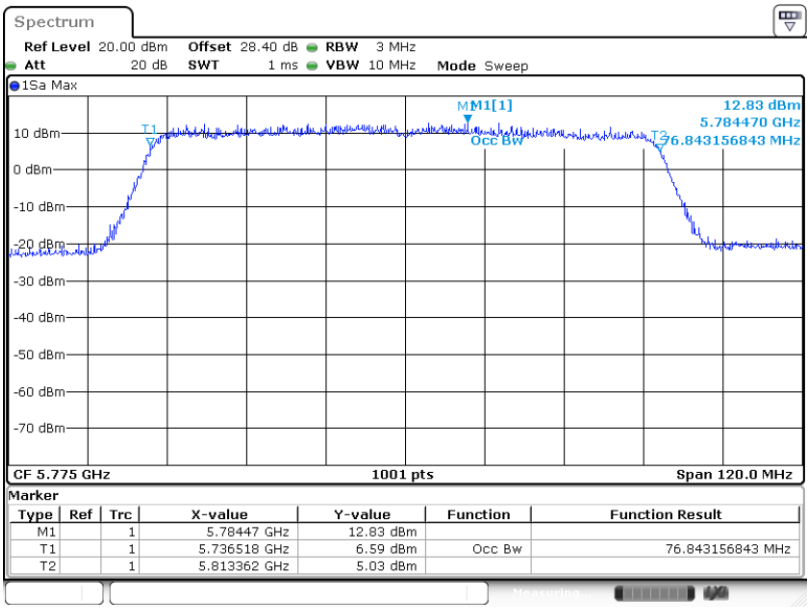
Minimum 6dB Bandwidth



Maximum 26dB Bandwidth



Maximum 99% Occupied Bandwidth



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

3.2 Maximum Conducted Output Power Measurement

3.2.1 Limit of Maximum Conducted Output Power

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

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

3.2.2 Measuring Instruments

See list of measuring equipment of this test report.

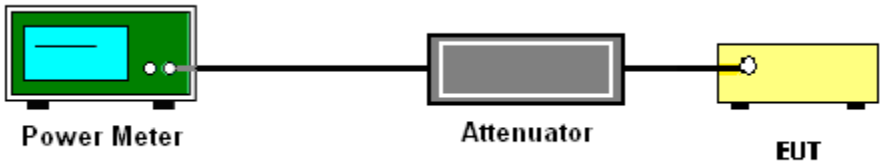
3.2.3 Test Procedures

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

Method PM-G (Measurement using a gated RF average power meter):

1. Measurement is performed using a wideband RF power meter.
2. The EUT is configured to transmit at its maximum power control level.
3. Measure the average power of the transmitter
4. Since the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.

3.2.4 Test Setup



3.2.5 Test Result of Maximum Conducted Output Power

Test Engineer :	Hank Hsu, Shiming Liu and Mina Liu	Temperature :	23.5~24.3℃
		Relative Humidity :	49~55%

<CDD Mode>

Band IV												
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		Pass/Fail
					Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	1	149	5745	14.90	14.80	-	30.00	30.00	3.60	4.10	Pass
11a	6Mbps	1	157	5785	14.70	14.70		30.00	30.00	3.60	4.10	Pass
11a	6Mbps	1	165	5825	14.70	14.70		30.00	30.00	3.60	4.10	Pass
HT20	MCS0	1	149	5745	14.80	14.60		30.00	30.00	3.60	4.10	Pass
HT20	MCS0	1	157	5785	14.60	14.60		30.00	30.00	3.60	4.10	Pass
HT20	MCS0	1	165	5825	14.70	14.80		30.00	30.00	3.60	4.10	Pass
HT40	MCS0	1	151	5755	14.80	14.60		30.00	30.00	3.60	4.10	Pass
HT40	MCS0	1	159	5795	14.60	14.80		30.00	30.00	3.60	4.10	Pass
VHT20	MCS0	1	149	5745	14.90	14.70		30.00	30.00	3.60	4.10	Pass
VHT20	MCS0	1	157	5785	14.70	14.70		30.00	30.00	3.60	4.10	Pass
VHT20	MCS0	1	165	5825	14.80	14.90		30.00	30.00	3.60	4.10	Pass
VHT40	MCS0	1	151	5755	14.90	14.70		30.00	30.00	3.60	4.10	Pass
VHT40	MCS0	1	159	5795	14.70	14.90		30.00	30.00	3.60	4.10	Pass
VHT80	MCS0	1	155	5775	14.60	14.70		30.00	30.00	3.60	4.10	Pass
11a	6Mbps	2	149	5745	15.30	15.60	18.46	30.00		4.10		Pass
11a	6Mbps	2	157	5785	15.60	15.90	18.76	30.00		4.10		Pass
11a	6Mbps	2	165	5825	15.60	15.90	18.76	30.00		4.10		Pass
HT20	MCS0	2	149	5745	15.60	15.80	18.71	30.00		4.10		Pass
HT20	MCS0	2	157	5785	15.50	15.80	18.66	30.00		4.10		Pass
HT20	MCS0	2	165	5825	15.50	15.70	18.61	30.00		4.10		Pass
HT40	MCS0	2	151	5755	15.50	15.80	18.66	30.00		4.10		Pass
HT40	MCS0	2	159	5795	15.40	15.60	18.51	30.00		4.10		Pass
VHT20	MCS0	2	149	5745	15.70	15.90	18.81	30.00		4.10		Pass
VHT20	MCS0	2	157	5785	15.60	15.90	18.76	30.00		4.10		Pass
VHT20	MCS0	2	165	5825	15.60	15.80	18.71	30.00		4.10		Pass
VHT40	MCS0	2	151	5755	15.60	15.90	18.76	30.00		4.10		Pass
VHT40	MCS0	2	159	5795	15.50	15.70	18.61	30.00		4.10		Pass
VHT80	MCS0	2	155	5775	15.80	15.80	18.81	30.00		4.10		Pass

Test Engineer :	Shiming Liu	Temperature :	23.9~24.5℃
		Relative Humidity :	53~54%

<TXBF Mode>

Band IV												
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		Pass/Fail
					Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
VHT20	MCS0	2	149	5745	15.50	15.20	18.36	29.14		6.86		Pass
VHT20	MCS0	2	157	5785	15.60	15.20	18.41	29.14		6.86		Pass
VHT20	MCS0	2	165	5825	15.60	15.30	18.46	29.14		6.86		Pass
VHT40	MCS0	2	151	5755	15.40	15.20	18.31	29.14		6.86		Pass
VHT40	MCS0	2	159	5795	15.40	15.10	18.26	29.14		6.86		Pass
VHT80	MCS6	2	155	5775	15.60	15.10	18.37	29.14		6.86		Pass

3.3 Power Spectral Density Measurement

3.3.1 Limit of Power Spectral Density

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

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

3.3.2 Measuring Instruments

See list of measuring equipment of this test report.

3.3.3 Test Procedures

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

<CDD Modes>

 # Method SA-2 #

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

- Measure the duty cycle.
- Set span to encompass the entire emission bandwidth (EBW) of the signal.
- Set RBW = 1 MHz.
- Set VBW ≥ 3 MHz.
- Number of points in sweep ≥ 2 Span / RBW.
- Sweep time = auto.
- Detector = RMS
- Trace average at least 100 traces in power averaging mode.
- Add 10 log(1/x), where x is the duty cycle, to the measured power in order to compute the average power during the actual transmission times. For example, add 10 log(1/0.25) = 6 dB if the duty cycle is 25 percent.

<TXBF Modes>

 # Method SA-3 #

(power averaging (rms) detection with max hold):

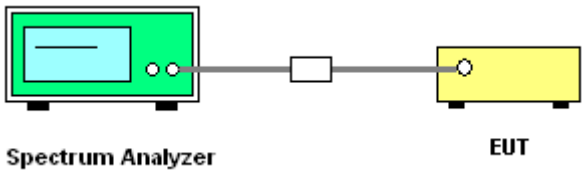
- Set span to encompass the entire emission bandwidth (EBW) of the signal.
- Set RBW = 1 MHz.
- Set VBW ≥ 3 MHz
- Number of points in sweep ≥ 2 Span / RBW.
- Sweep time ≤ (number of points in sweep) × T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.
- Detector = power averaging (rms).
- Trace mode = max hold.
- Allow max hold to run for at least 60 seconds, or longer as needed to allow the trace to stabilize.

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

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

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

3.3.4 Test Setup



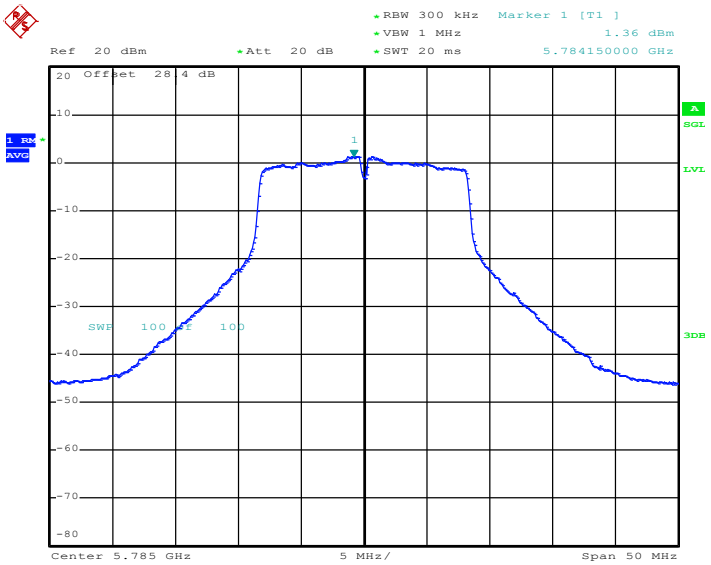
3.3.5 Test Result of Power Spectral Density

Test Engineer :	Hank Hsu, Shiming Liu and Mina Liu	Temperature :	23.5~24.3℃
		Relative Humidity :	49~55%

<CDD Mode>

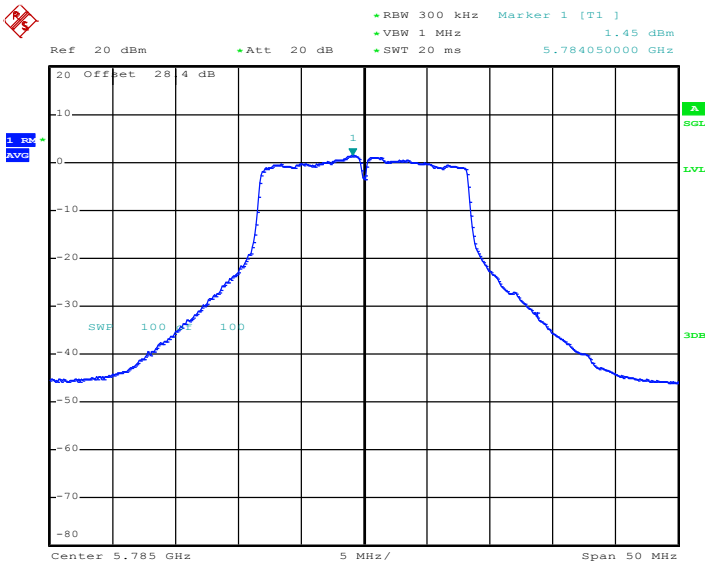
Band IV														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	10log (500kHz /RBW) Factor (dB)		Average Power Density (dBm/500kHz)			Average PSD Limit (dBm/500kHz)		DG (dBi)		Pass /Fail
					Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	1	149	5745	2.22	2.22	2.72	2.80		30.00	30.00	3.60	4.10	Pass
11a	6Mbps	1	157	5785	2.22	2.22	2.50	2.45		30.00	30.00	3.60	4.10	Pass
11a	6Mbps	1	165	5825	2.22	2.22	2.45	2.33		30.00	30.00	3.60	4.10	Pass
VHT20	MCS0	1	149	5745	2.22	2.22	2.84	2.30		30.00	30.00	3.60	4.10	Pass
VHT20	MCS0	1	157	5785	2.22	2.22	2.50	1.93	-	30.00	30.00	3.60	4.10	Pass
VHT20	MCS0	1	165	5825	2.22	2.22	2.45	2.38		30.00	30.00	3.60	4.10	Pass
VHT40	MCS0	1	151	5755	2.22	2.22	-0.36	-0.69		30.00	30.00	3.60	4.10	Pass
VHT40	MCS0	1	159	5795	2.22	2.22	-0.85	-0.79		30.00	30.00	3.60	4.10	Pass
VHT80	MCS0	1	155	5775	2.22	2.22	-3.73	-3.48		30.00	30.00	3.60	4.10	Pass
11a	6Mbps	2	149	5745	2.22		3.55	3.41	6.56	29.14		6.86		Pass
11a	6Mbps	2	157	5785	2.22		3.67	3.76	**6.77**	29.14		6.86		Pass
11a	6Mbps	2	165	5825	2.22		3.63	3.60	6.64	29.14		6.86		Pass
VHT20	MCS0	2	149	5745	2.22		3.65	3.25	6.66	29.14		6.86		Pass
VHT20	MCS0	2	157	5785	2.22		2.87	2.99	6.00	29.14		6.86		Pass
VHT20	MCS0	2	165	5825	2.22		3.00	2.89	6.01	29.14		6.86		Pass
VHT40	MCS0	2	151	5755	2.22		0.06	0.28	3.29	29.14		6.86		Pass
VHT40	MCS0	2	159	5795	2.22		-0.09	0.02	3.03	29.14		6.86		Pass
VHT80	MCS0	2	155	5775	2.22		-2.45	-2.50	0.56	29.14		6.86		Pass

Worst Case Power Density (dBm/MHz) for MIMO Ant. 1



Date: 27.JUL.2020 10:28:27

Worst Case Power Density (dBm/MHz) for MIMO Ant. 2



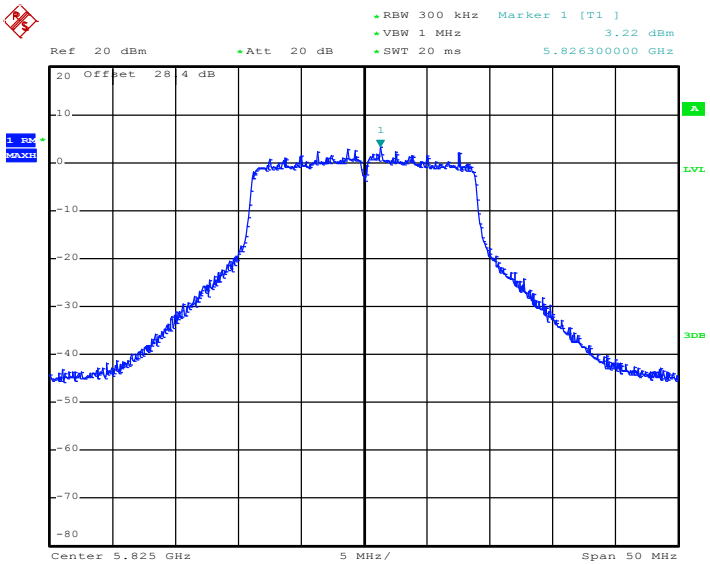
Date: 27.JUL.2020 10:27:54

Test Engineer :	Shiming Liu	Temperature :	23.9~24.5℃
		Relative Humidity :	53~54%

<TXBF Mode>

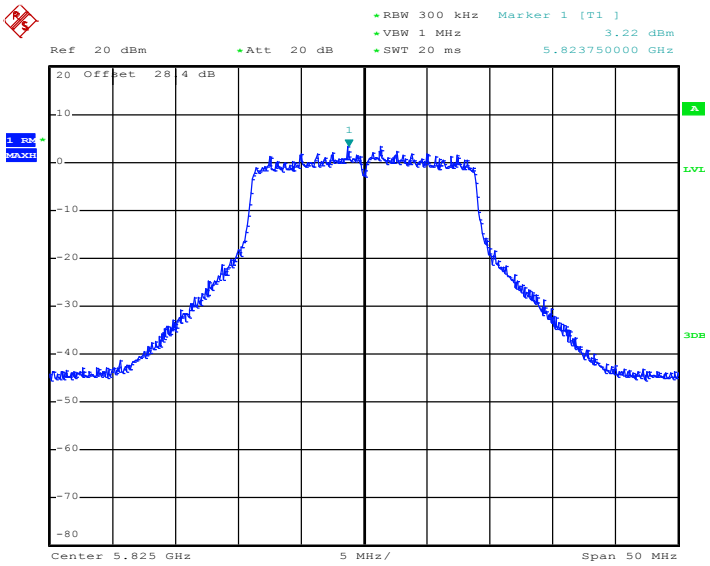
Band IV													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	10log (500kHz /RBW) Factor (dB)		Average Power Density (dBm/500kHz)			Average PSD Limit (dBm/500kHz)		DG (dBi)		Pass /Fail
					Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
VHT20	MCS0	2	149	5745	2.22		15.50	15.20	18.36	29.14		6.86		Pass
VHT20	MCS0	2	157	5785	2.22		15.60	15.20	18.41	29.14		6.86		Pass
VHT20	MCS0	2	165	5825	2.22		15.60	15.30	**18.46**	29.14		6.86		Pass
VHT40	MCS0	2	151	5755	2.22		15.40	15.20	18.31	29.14		6.86		Pass
VHT40	MCS0	2	159	5795	2.22		15.40	15.10	18.26	29.14		6.86		Pass
VHT80	MCS0	2	155	5775	2.22		15.60	15.10	18.37	29.14		6.86		Pass

Worst Case Power Density (dBm/MHz) for MIMO Ant. 1



Date: 21.AUG.2020 20:58:10

Worst Case Power Density (dBm/MHz) for MIMO Ant. 2



Date: 21.AUG.2020 20:59:38

3.4 Unwanted Emissions Measurement

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

3.4.1 Limit of Unwanted Emissions

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

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

(2) Unwanted spurious emissions fallen in restricted bands shall comply with the general field strength limits as below table,

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009 – 0.490	2400/F(kHz)	300
0.490 – 1.705	24000/F(kHz)	30
1.705 – 30.0	30	30
30 – 88	100	3
88 – 216	150	3
216 - 960	200	3
Above 960	500	3

Note: The following formula is used to convert the EIRP to field strength.

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

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

(3) KDB789033 D02 v02r01 G)2)c)

(i) Sections 15.407(b)(1-3) specifies the unwanted emissions limit 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.

(ii) Section 15.407(b)(4) specifies the unwanted emissions limit for the U-NII-3 band. A band emissions mask is specified in Section 15.407(b)(4)(i). The emission limits are based on the use of a peak detector.

3.4.2 Measuring Instruments

See list of measuring equipment of this test report.

3.4.3 Test Procedures

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

Section G) Unwanted emissions measurement.

(1) Procedure for Unwanted Emissions Measurements Below 1000MHz

- RBW = 120 kHz
- VBW = 300 kHz
- Detector = Peak
- Trace mode = max hold

(2) Procedure for Peak Unwanted Emissions Measurements Above 1000 MHz

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

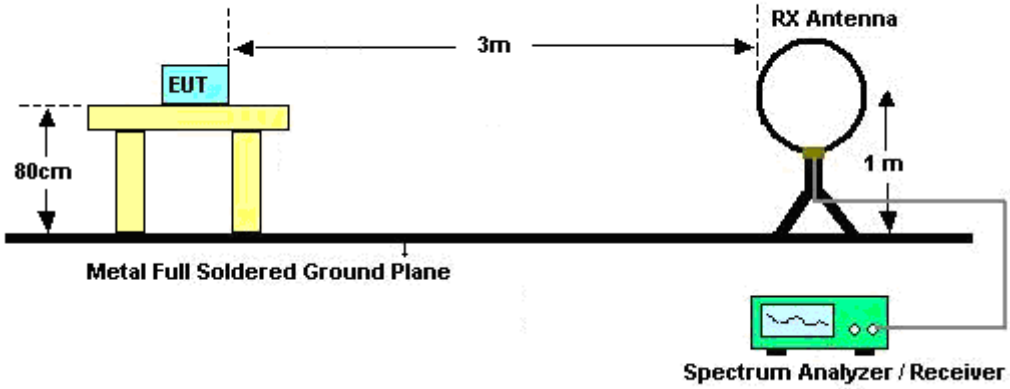
(3) Procedures for Average Unwanted Emissions Measurements Above 1000MHz

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

2. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
3. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
4. The antenna is a broadband antenna and its height is adjusted between one meter and four meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
5. For each suspected emission, the EUT was arranged to its worst case and then adjust the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
6. For testing below 1GHz, if the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then peak values of EUT will be reported, otherwise, the emissions will be repeated one by one using the CISPR quasi-peak method and reported.
7. For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than average limit (that means the emission level in average mode also complies with the limit in average mode), then peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.

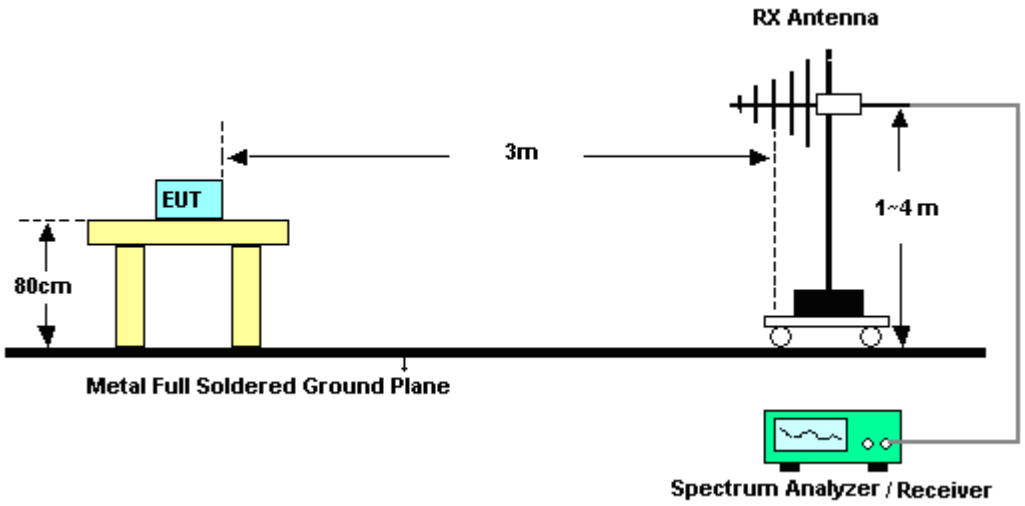
3.4.4 Test Setup

For radiated emissions below 30MHz

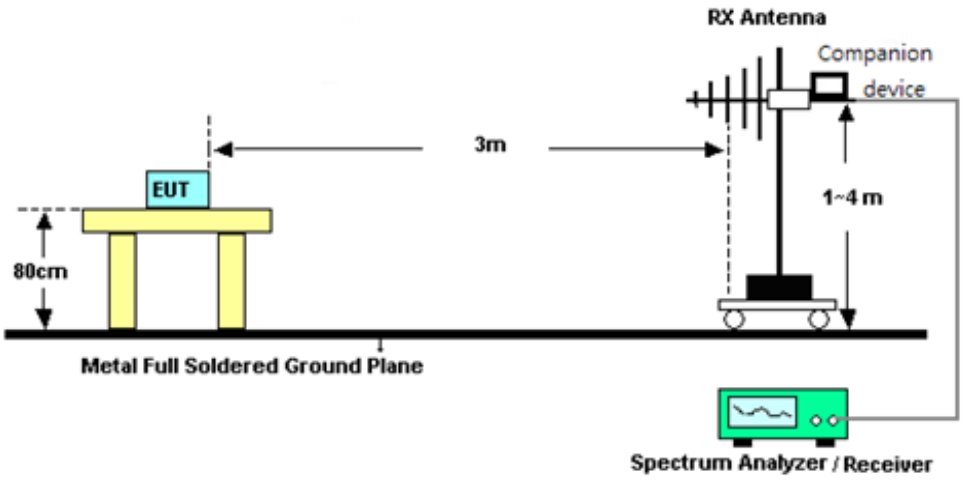


For radiated emissions from 30MHz to 1GHz

<CDD Mode>

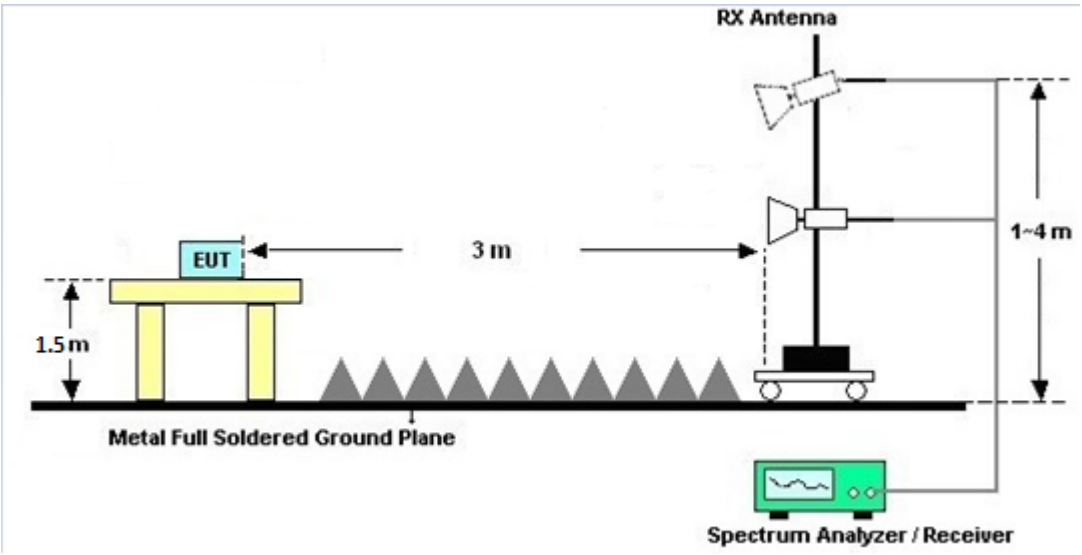


<TXBF Modes>

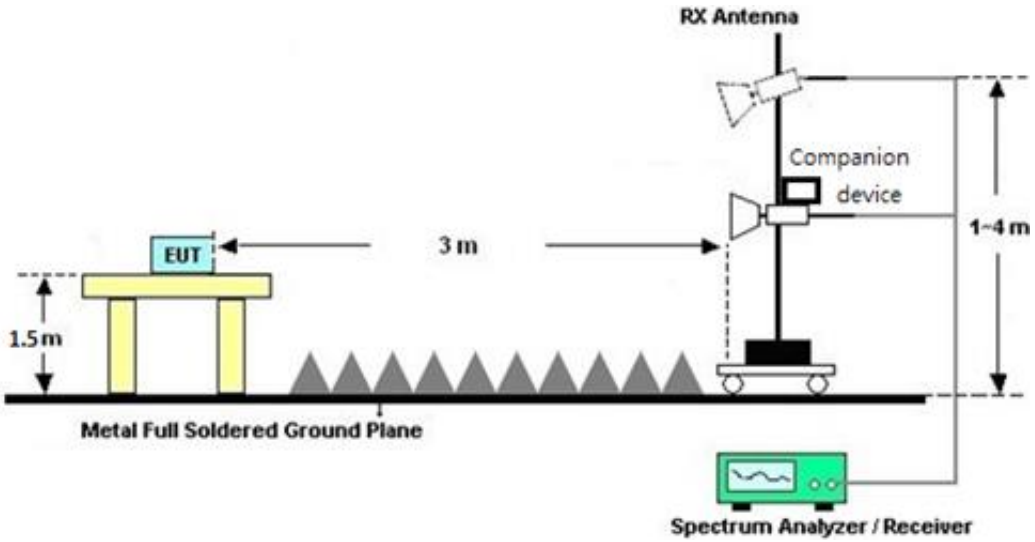


For radiated emissions 1GHz to 18GHz

<CDD Mode>

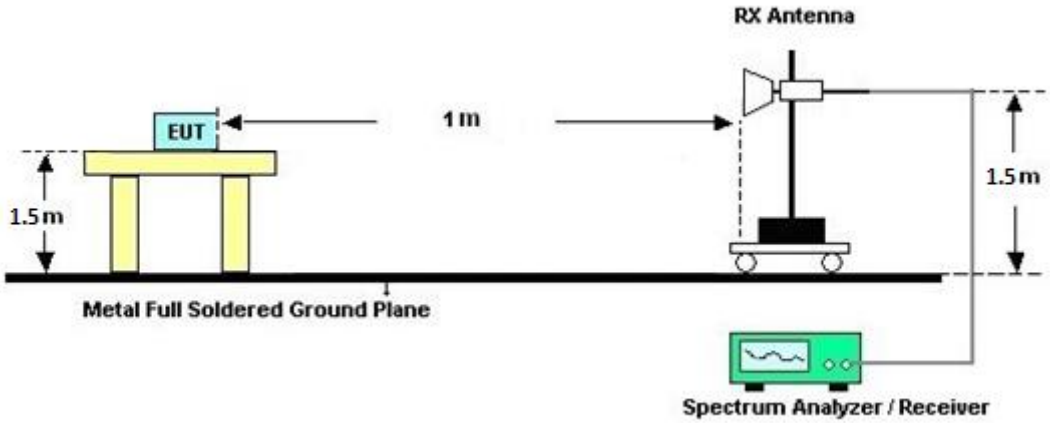


<TXBF Modes>

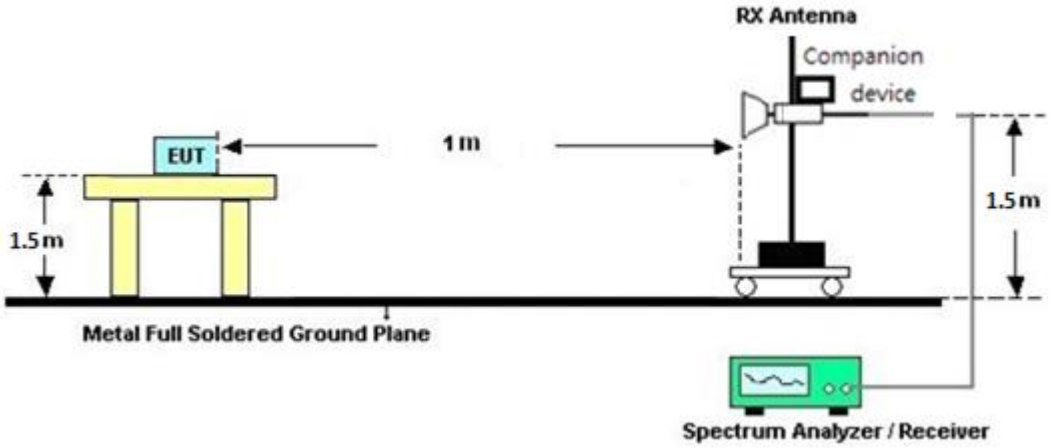


For radiated emissions above 18GHz

<CDD Mode>



<TXBF Modes>



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

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

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

3.4.6 Test Result of Radiated Band Edges

Please refer to Appendix B and C.

3.4.7 Duty Cycle

Please refer to Appendix D.

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

Please refer to Appendix B and C.

3.5 AC Conducted Emission Measurement

3.5.1 Limit of AC Conducted Emission

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

Frequency of emission (MHz)	Conducted limit (dBμV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

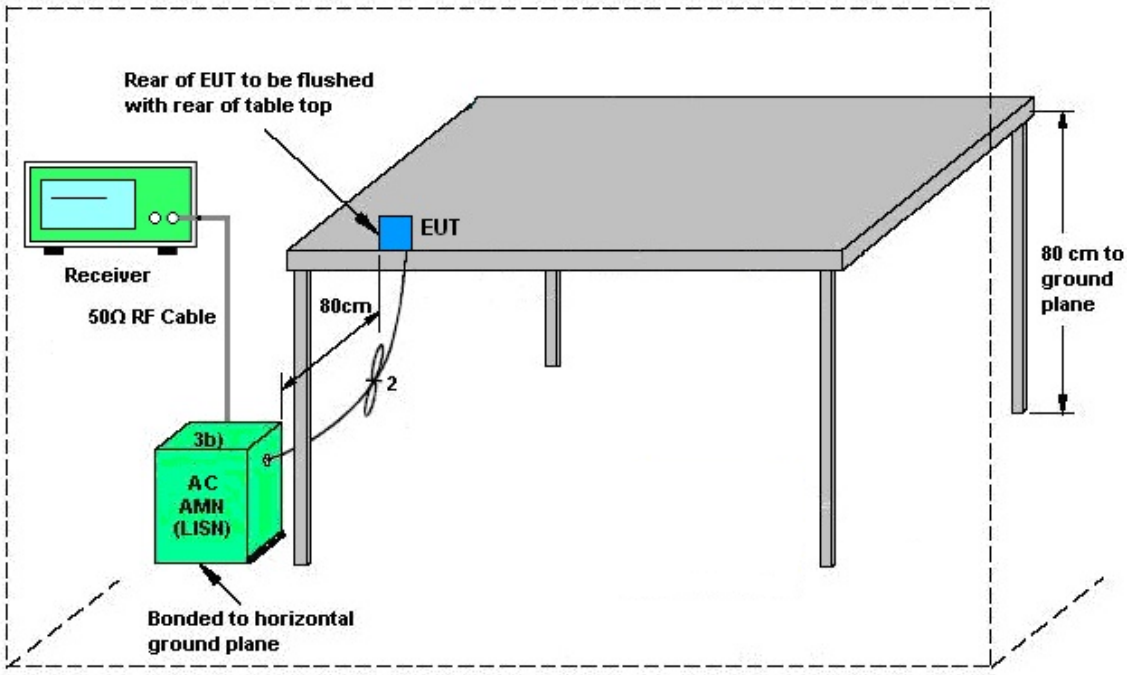
3.5.2 Measuring Instruments

See list of measuring equipment of this test report.

3.5.3 Test Procedures

1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
5. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
6. Both sides of AC line were checked for maximum conducted interference.
7. The frequency range from 150 kHz to 30 MHz was searched.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode.

3.5.4 Test Setup



AMN = Artificial mains network (LISN)
AE = Associated equipment
EUT = Equipment under test
ISN = Impedance stabilization network

3.5.5 Test Result of AC Conducted Emission

Please refer to Appendix A.

3.6 Automatically Discontinue Transmission

3.6.1 Limit of Automatically Discontinue Transmission

The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signaling information or the use of repetitive codes used by certain digital technologies to complete frame or burst intervals. Applicants shall include in their application for equipment authorization to describe how this requirement is met.

3.6.2 Measuring Instruments

See list of measuring equipment of this test report.

3.6.3 Test Result of Automatically Discontinue Transmission

While the EUT is not transmitting any information, the EUT can automatically discontinue transmission and become standby mode for power saving. The EUT can detect the controlling signal of ACK message transmitting from remote device and verify whether it shall resend or discontinue transmission.

3.7 Antenna Requirements

3.7.1 Standard Applicable

If transmitting antenna directional gain is greater than 6 dBi, both the peak transmit power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

3.7.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.7.3 Antenna Gain

<CDD Modes >

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

For CDD transmissions, directional gain is calculated as

Directional gain = GANT + Array Gain, where Array Gain is as follows.

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

Array Gain = 10 log(NANT/NSS=1) dB.

For power measurements on IEEE 802.11 devices,

Array Gain = 0 dB (i.e., no array gain) for NANT ≤ 4.

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

The EUT supports CDD mode.

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

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

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

The directional gain “DG” is calculated as following table.

<CDD Modes>

	Ant. 1 (dBi)	Ant. 2 (dBi)	DG for Power (dBi)	DG for PSD (dBi)	Power Limit Reduction (dB)	PSD Limit Reduction (dB)
Band IV	3.60	4.10	4.10	6.86	0.00	0.86

Power Limit Reduction = DG(Power) – 6dBi, (min = 0)

PSD Limit Reduction = DG(PSD) – 6dBi, (min = 0)

TXBF modes

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

For CDD transmissions, directional gain is calculated as

$$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$$

where

Each antenna is driven by no more than one spatial stream;

N_{SS} = the number of independent spatial streams of data;

N_{ANT} = the total number of antennas

$g_{j,k} = 10^{G_k / 20}$ if the kth antenna is being fed by spatial stream j, or zero if it is not;

G_k is the gain in dBi of the kth antenna.

The EUT supports beamforming for 802.11ac modes.

The directional gain calculation is following F)2)e)ii) of KDB 662911 D01 v02r01.

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

The directional gain “DG” is calculated as following table.

			DG	DG	Power	PSD
			for	for	Limit	Limit
	Ant 1	Ant 2	Power	PSD	Reduction	Reduction
	(dBi)	(dBi)	(dBi)	(dBi)	(dB)	(dB)
Band IV	3.60	4.10	6.86	6.86	0.86	0.86

Power Limit Reduction = DG(Power) – 6dBi, (min = 0)

PSD Limit Reduction = DG(PSD) – 6dBi, (min = 0)

4 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100488	9 kHz~30 MHz	Jan. 09, 2020	Jul. 21, 2020~ Aug. 07, 2020	Jan. 08, 2021	Radiation (03CH16-HY)
Bilog Antenna	TESEQ	CBL6111D&00802N1D01N-06	47020&06	30MHz to 1GHz	Oct. 12, 2019	Jul. 21, 2020~ Aug. 07, 2020	Oct. 11, 2020	Radiation (03CH16-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-1522	1G~18GHz	Sep. 19, 2019	Jul. 21, 2020~ Aug. 07, 2020	Sep. 18, 2020	Radiation (03CH16-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170980	18GHz~40GHz	Jan. 10, 2020	Jul. 21, 2020~ Aug. 07, 2020	Jan. 09, 2021	Radiation (03CH16-HY)
Amplifier	SONOMA	310N	371607	9kHz~1G	Oct. 01. 2019	Jul. 21, 2020~ Aug. 07, 2020	Sep. 30. 2020	Radiation (03CH16-HY)
Preamplifier	Jet-Power	JPA0118-55-303	1710001800055006	1GHz~18GHz	May 07, 2020	Jul. 21, 2020~ Aug. 07, 2020	May 06, 2021	Radiation (03CH16-HY)
Preamplifier	EMEC	EM18G40G	060715	18GHz ~40GHz	Dec. 13, 2019	Jul. 21, 2020~ Aug. 07, 2020	Dec. 12, 2020	Radiation (03CH16-HY)
Preamplifier	Keysight	83017A	MY53270264	1GHz~26.5GHz	Dec. 11, 2019	Jul. 21, 2020~ Aug. 07, 2020	Dec. 10, 2020	Radiation (03CH16-HY)
EMI Test Receiver	Keysight	N9038A(MXE)	MY57290111	3Hz~26.5GHz	Dec. 05, 2019	Jul. 21, 2020~ Aug. 07, 2020	Dec. 04, 2020	Radiation (03CH16-HY)
Spectrum Analyzer	Agilent	E4446A	MY50180136	3Hz~44GHz	May 04, 2020	Jul. 21, 2020~ Aug. 07, 2020	May 03, 2021	Radiation (03CH16-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY11680/4PE	NA	Aug. 30, 2019	Jul. 21, 2020~ Aug. 07, 2020	Aug. 29, 2020	Radiation (03CH16-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY11688/4PE	NA	Aug. 30, 2019	Jul. 21, 2020~ Aug. 07, 2020	Aug. 29, 2020	Radiation (03CH16-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	EC-A5-300-5757	NA	Aug. 30, 2019	Jul. 21, 2020~ Aug. 07, 2020	Aug. 29, 2020	Radiation (03CH16-HY)
Hygrometer	TECPEL	DTM-303B	TP162965	N/A	Oct. 25, 2019	Jul. 21, 2020~ Aug. 07, 2020	Oct. 24, 2020	Radiation (03CH16-HY)
Software	Audix	E3 6.2009-8-24	RK-001136	N/A	N/A	Jul. 21, 2020~ Aug. 07, 2020	N/A	Radiation (03CH16-HY)
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Jul. 27, 2020	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102388	9kHz~3.6GHz	Nov. 15, 2019	Jul. 27, 2020	Nov. 14, 2020	Conduction (CO05-HY)
Hygrometer	Testo	608-H1	34913912	N/A	Nov. 07, 2019	Jul. 27, 2020	Nov. 06, 2020	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100081	9kHz~30MHz	Nov. 15, 2019	Jul. 27, 2020	Nov. 14, 2020	Conduction (CO05-HY)
Software	Rohde & Schwarz	EMC32 V10.30	N/A	N/A	N/A	Jul. 27, 2020	N/A	Conduction (CO05-HY)
LF Cable	HUBER + SUHNER	RG-214/U	LF01	N/A	Jan. 02, 2020	Jul. 27, 2020	Jan. 01, 2021	Conduction (CO05-HY)
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100851	N/A	Jan. 02, 2020	Jul. 27, 2020	Jan. 01, 2021	Conduction (CO05-HY)

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
<For CDD Mode>								
Hygrometer	Testo	608-H1	34893241	N/A	Mar. 02, 2020	Jul. 16, 2020~ Aug. 18, 2020	Mar. 01, 2021	Conducted (TH05-HY)
Power Sensor	DARE	RPR3006W	16I00054S NO10	10MHz~6GHz	Dec. 23, 2019	Jul. 16, 2020~ Aug. 18, 2020	Dec. 22, 2020	Conducted (TH05-HY)
Spectrum Analyzer	Rohde & Schwarz	FSP40	100055	9kHz-40GHz	Dec. 30, 2019	Jul. 16, 2020~ Aug. 18, 2020	Dec. 29, 2020	Conducted (TH05-HY)
Switch Box & RF Cable	Burgeon	ETF-058	EC1300484	N/A	Aug. 22, 2019	Jul. 16, 2020~ Aug. 18, 2020	Aug. 21, 2020	Conducted (TH05-HY)
<For TXBF Mode>								
Hygrometer	Testo	608-H1	34893241	N/A	Mar. 02, 2020	Aug. 21, 2020~ Aug. 31, 2020	Mar. 01, 2021	Conducted (TH05-HY)
Power Sensor	DARE	RPR3006W	16I00054S NO10	10MHz~6GHz	Dec. 23, 2019	Aug. 21, 2020~ Aug. 31, 2020	Dec. 22, 2020	Conducted (TH05-HY)
Signal Analyzer	Rohde & Schwarz	FSV40	101397	10Hz~40GHz	Nov. 15, 2019	Aug. 21, 2020~ Aug. 31, 2020	Nov. 14, 2020	Conducted (TH05-HY)
Switch Box & RF Cable	EM Electronics	EMSW18SE	SW200302	N/A	Mar. 17, 2020	Aug. 21, 2020~ Aug. 31, 2020	Mar. 16, 2021	Conducted (TH05-HY)

5 Uncertainty of Evaluation

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

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

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

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

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**6.3**

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

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

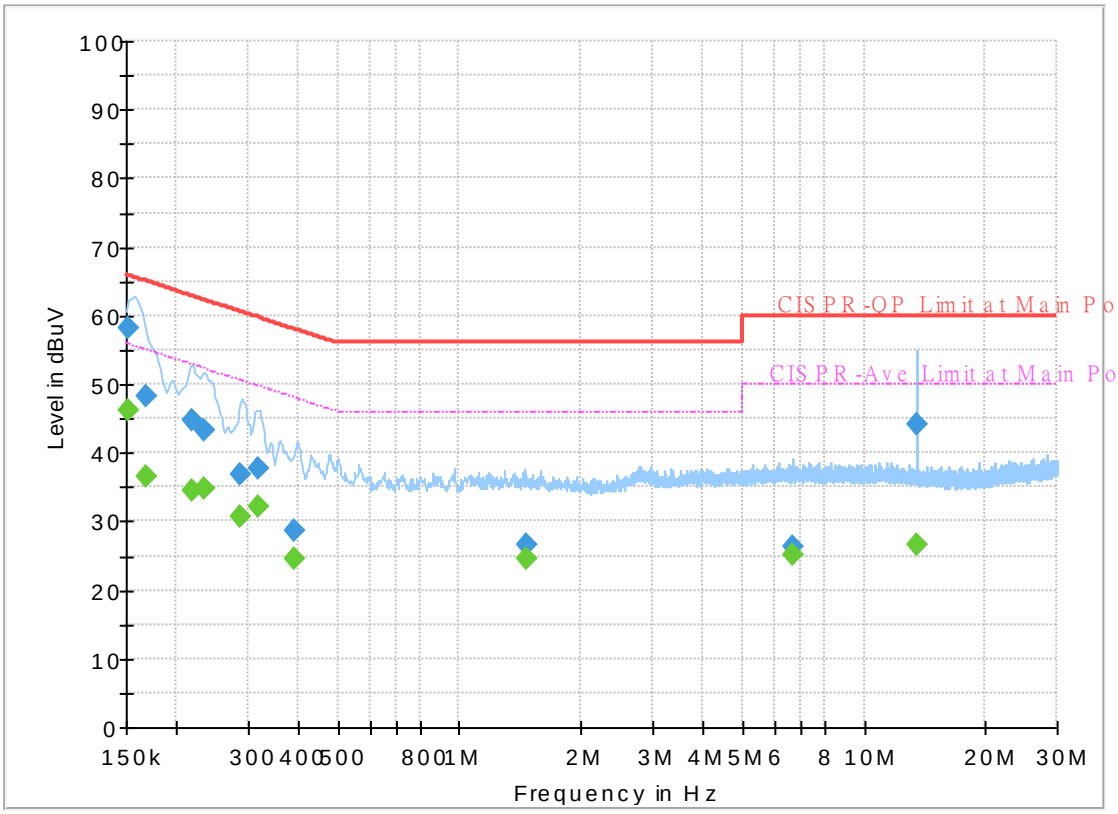
Appendix A. AC Conducted Emission Test Results

Test Engineer :	Tom Lee	**Temperature :**	23~25℃
		Relative Humidity :	42~50%

EUT Information

Report NO :	070601
Test Mode :	Mode 1
Test Voltage :	120Vac/60Hz
Phase :	Line

Full Spectrum



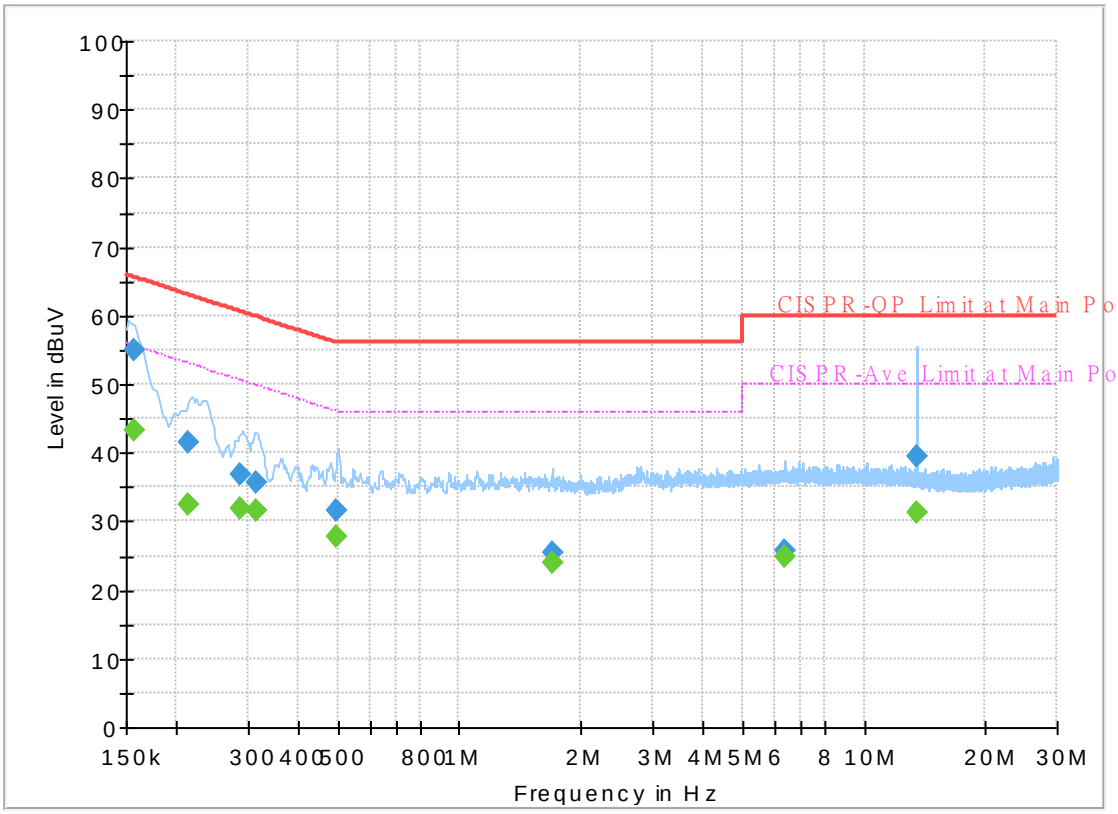
Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.152250	---	46.28	55.88	9.60	L1	OFF	19.6
0.152250	58.18	---	65.88	7.70	L1	OFF	19.6
0.168000	---	36.65	55.06	18.41	L1	OFF	19.6
0.168000	48.20	---	65.06	16.86	L1	OFF	19.6
0.217950	---	34.60	52.90	18.30	L1	OFF	19.6
0.217950	44.87	---	62.90	18.03	L1	OFF	19.6
0.233340	---	34.87	52.33	17.46	L1	OFF	19.6
0.233340	43.27	---	62.33	19.06	L1	OFF	19.6
0.286440	---	30.61	50.63	20.02	L1	OFF	19.6
0.286440	36.81	---	60.63	23.82	L1	OFF	19.6
0.316500	---	32.13	49.80	17.67	L1	OFF	19.6
0.316500	37.75	---	59.80	22.05	L1	OFF	19.6
0.390750	---	24.54	48.05	23.51	L1	OFF	19.6
0.390750	28.69	---	58.05	29.36	L1	OFF	19.6
1.457250	---	24.68	46.00	21.32	L1	OFF	19.6
1.457250	26.69	---	56.00	29.31	L1	OFF	19.6
6.643500	---	25.14	50.00	24.86	L1	OFF	19.9
6.643500	26.33	---	60.00	33.67	L1	OFF	19.9
13.560000	---	26.73	50.00	23.27	L1	OFF	20.2
13.560000	44.23	---	60.00	15.77	L1	OFF	20.2

EUT Information

Report NO :	070601
Test Mode :	Mode 1
Test Voltage :	120Vac/60Hz
Phase :	Neutral

Full Spectrum



Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.156750	---	43.41	55.63	12.22	N	OFF	19.5
0.156750	54.83	---	65.63	10.80	N	OFF	19.5
0.213360	---	32.33	53.07	20.74	N	OFF	19.5
0.213360	41.48	---	63.07	21.59	N	OFF	19.5
0.287430	---	31.77	50.60	18.83	N	OFF	19.5
0.287430	36.70	---	60.60	23.90	N	OFF	19.5
0.315960	---	31.61	49.81	18.20	N	OFF	19.5
0.315960	35.56	---	59.81	24.25	N	OFF	19.5
0.498750	---	27.74	46.02	18.28	N	OFF	19.5
0.498750	31.49	---	56.02	24.53	N	OFF	19.5
1.698000	---	23.92	46.00	22.08	N	OFF	19.6
1.698000	25.56	---	56.00	30.44	N	OFF	19.6
6.348120	---	24.91	50.00	25.09	N	OFF	19.7
6.348120	25.83	---	60.00	34.17	N	OFF	19.7
13.560000	---	31.19	50.00	18.81	N	OFF	19.9
13.560000	39.44	---	60.00	20.56	N	OFF	19.9

Appendix B. Radiated Spurious Emission

Test Engineer :	Jacky Hung, Andy Yang and CR Liro	Temperature :	20~25°C
		Relative Humidity :	50~60%

<CDD Mode>

Band 4 - 5725~5850MHz

WIFI 802.11a (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.
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 149 5745MHz		5636.8	54.14	-14.06	68.2	38.47	31.7	13.02	29.05	107	250	P	H
		5699.2	55.55	-49.06	104.61	39.66	31.8	13.12	29.03	107	250	P	H
		5720	64.77	-46.03	110.8	48.77	31.88	13.15	29.03	107	250	P	H
		5724.8	73.87	-47.87	121.74	57.84	31.9	13.16	29.03	107	250	P	H
	*	5745	113.48	-	-	97.33	31.98	13.19	29.02	107	250	P	H
	*	5745	105.82	-	-	89.67	31.98	13.19	29.02	107	250	A	H
													H
													H
		5643.4	53.93	-14.27	68.2	38.25	31.7	13.03	29.05	384	311	P	V
		5688.8	55.58	-41.36	96.94	39.73	31.78	13.1	29.03	384	311	P	V
		5719.2	60.85	-49.73	110.58	44.85	31.88	13.15	29.03	384	311	P	V
		5725	70.61	-51.59	122.2	54.58	31.9	13.16	29.03	384	311	P	V
	*	5745	109.87	-	-	93.72	31.98	13.19	29.02	384	311	P	V
	*	5745	102.07	-	-	85.92	31.98	13.19	29.02	384	311	A	V
													V
													V

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5603	53.65	-14.55	68.2	38.05	31.7	12.96	29.06	107	253	P	H
		5654.6	54.69	-16.93	71.62	38.97	31.71	13.05	29.04	107	253	P	H
		5710.6	56.12	-52.05	108.17	40.17	31.84	13.14	29.03	107	253	P	H
		5725	54.92	-67.28	122.2	38.89	31.9	13.16	29.03	107	253	P	H
	*	5785	114.18	-	-	97.86	32.07	13.26	29.01	107	253	P	H
	*	5785	106.33	-	-	90.01	32.07	13.26	29.01	107	253	A	H
		5851.4	54.9	-64.11	119.01	38.49	32.1	13.31	29	107	253	P	H
		5856.8	57.6	-52.7	110.3	41.17	32.11	13.31	28.99	107	253	P	H
		5921.4	55.27	-15.58	70.85	38.61	32.29	13.35	28.98	107	253	P	H
		5946	54.46	-13.74	68.2	37.68	32.38	13.37	28.97	107	253	P	H
													H
802.11a CH 157 5785MHz													H
		5650	53.9	-14.3	68.2	38.2	31.7	13.04	29.04	385	346	P	V
		5659.6	54.19	-21.14	75.33	38.45	31.72	13.06	29.04	385	346	P	V
		5719.2	54.18	-56.4	110.58	38.18	31.88	13.15	29.03	385	346	P	V
		5724	54.29	-65.63	119.92	38.26	31.9	13.16	29.03	385	346	P	V
	*	5785	110.27	-	-	93.95	32.07	13.26	29.01	385	346	P	V
	*	5785	102.64	-	-	86.32	32.07	13.26	29.01	385	346	A	V
		5850.6	53.86	-66.97	120.83	37.45	32.1	13.31	29	385	346	P	V
		5859.8	54.76	-54.69	109.45	38.31	32.12	13.32	28.99	385	346	P	V
		5877	55.34	-48.37	103.71	38.85	32.15	13.33	28.99	385	346	P	V
		5940	53.64	-14.56	68.2	36.89	32.36	13.36	28.97	385	346	P	V
													V
													V

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
	*	5825	114.62	-	-	98.22	32.1	13.3	29	105	253	P	H
	*	5825	106.8	-	-	90.4	32.1	13.3	29	105	253	A	H
		5850.8	66.5	-53.88	120.38	50.09	32.1	13.31	29	105	253	P	H
		5855.6	66.58	-44.05	110.63	50.15	32.11	13.31	28.99	105	253	P	H
		5885.8	57.46	-39.72	97.18	40.95	32.17	13.33	28.99	105	253	P	H
		5927.6	55.36	-12.84	68.2	38.67	32.31	13.36	28.98	105	253	P	H
													H
802.11a													H
CH 165	*	5825	110.84	-	-	94.44	32.1	13.3	29	400	349	P	V
5825MHz	*	5825	103.26	-	-	86.86	32.1	13.3	29	400	349	A	V
		5850.8	63.18	-57.2	120.38	46.77	32.1	13.31	29	400	349	P	V
		5855.8	59.26	-51.32	110.58	42.83	32.11	13.31	28.99	400	349	P	V
		5882.6	56.37	-43.19	99.56	39.86	32.17	13.33	28.99	400	349	P	V
		5934.4	54.94	-13.26	68.2	38.22	32.34	13.36	28.98	400	349	P	V
													V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.

Band 4 5725~5850MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 149 5745MHz		11490	49.98	-24.02	74	50.12	40.1	20.66	60.9	100	0	P	H
		17235	51.97	-16.23	68.2	43.47	40.84	26.48	58.82	100	0	P	H
													H
													H
		11490	49.95	-24.05	74	50.09	40.1	20.66	60.9	100	0	P	V
		17235	53.21	-14.99	68.2	44.71	40.84	26.48	58.82	100	0	P	V
													V
													V
802.11a CH 157 5785MHz		11570	49.99	-24.01	74	50.32	39.89	20.76	60.98	100	0	P	H
		17355	52.87	-15.33	68.2	43.47	41.38	26.69	58.67	100	0	P	H
													H
													H
		11570	49.94	-24.06	74	50.27	39.89	20.76	60.98	100	0	P	V
		17355	52.63	-15.57	68.2	43.23	41.38	26.69	58.67	100	0	P	V
													V
													V
802.11a CH 165 5825MHz		11650	49.98	-24.02	74	50.61	39.6	20.85	61.08	100	0	P	H
		17475	54.15	-14.05	68.2	43.82	41.97	26.89	58.53	100	0	P	H
													H
													H
		11650	49.94	-24.06	74	50.57	39.6	20.85	61.08	100	0	P	V
		17475	53.53	-14.67	68.2	43.2	41.97	26.89	58.53	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 4 5725~5850MHz

WIFI 802.11ac VHT20 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5628	54.94	-13.26	68.2	39.29	31.7	13	29.05	100	310	P	H
		5698.6	57.37	-46.8	104.17	41.48	31.8	13.12	29.03	100	310	P	H
		5719.8	71.92	-38.82	110.74	55.92	31.88	13.15	29.03	100	310	P	H
		5723.4	81.33	-37.22	118.55	65.31	31.89	13.16	29.03	100	310	P	H
	*	5745	114.23	-	-	98.08	31.98	13.19	29.02	100	310	P	H
	*	5745	106.59	-	-	90.44	31.98	13.19	29.02	100	310	A	H
802.11ac													H
VHT20													H
CH 149		5627.6	54.36	-13.84	68.2	38.71	31.7	13	29.05	384	315	P	V
5745MHz		5689.8	55.01	-42.67	97.68	39.16	31.78	13.1	29.03	384	315	P	V
		5719.8	67.81	-42.93	110.74	51.81	31.88	13.15	29.03	384	315	P	V
		5725	77.94	-44.26	122.2	61.91	31.9	13.16	29.03	384	315	P	V
	*	5745	110.69	-	-	94.54	31.98	13.19	29.02	384	315	P	V
	*	5745	102.87	-	-	86.72	31.98	13.19	29.02	384	315	A	V
													V
													V

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5618.4	54.33	-13.87	68.2	38.69	31.7	12.99	29.05	100	310	P	H
		5697.8	55.11	-48.47	103.58	39.22	31.8	13.12	29.03	100	310	P	H
		5715.6	56.44	-53.13	109.57	40.47	31.86	13.14	29.03	100	310	P	H
		5724.6	56.07	-65.22	121.29	40.04	31.9	13.16	29.03	100	310	P	H
	*	5785	113.87	-	-	97.55	32.07	13.26	29.01	100	310	P	H
	*	5785	106.37	-	-	90.05	32.07	13.26	29.01	100	310	A	H
		5850.8	56.12	-64.26	120.38	39.71	32.1	13.31	29	100	310	P	H
		5873	54.61	-51.15	105.76	38.13	32.15	13.32	28.99	100	310	P	H
		5876.4	55.96	-48.2	104.16	39.47	32.15	13.33	28.99	100	310	P	H
		5946.4	55.16	-13.04	68.2	38.37	32.39	13.37	28.97	100	310	P	H
802.11ac													H
VHT20													H
CH 157		5646	53.65	-14.55	68.2	37.96	31.7	13.03	29.04	399	315	P	V
5785MHz		5686.4	54.96	-40.21	95.17	39.13	31.77	13.1	29.04	399	315	P	V
		5711.4	54.1	-54.29	108.39	38.14	31.85	13.14	29.03	399	315	P	V
		5724.8	54.77	-66.97	121.74	38.74	31.9	13.16	29.03	399	315	P	V
	*	5785	111.16	-	-	94.84	32.07	13.26	29.01	399	315	P	V
	*	5785	103.52	-	-	87.2	32.07	13.26	29.01	399	315	A	V
		5850.8	54.37	-66.01	120.38	37.96	32.1	13.31	29	399	315	P	V
		5871.6	55.52	-50.63	106.15	39.05	32.14	13.32	28.99	399	315	P	V
		5890.4	54.68	-39.09	93.77	38.16	32.18	13.33	28.99	399	315	P	V
		5939.8	54.93	-13.27	68.2	38.18	32.36	13.36	28.97	399	315	P	V
													V
													V

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
	*	5825	114.28	-	-	97.88	32.1	13.3	29	100	310	P	H
	*	5825	106.56	-	-	90.16	32.1	13.3	29	100	310	A	H
		5850	74.53	-47.67	122.2	58.12	32.1	13.31	29	100	310	P	H
		5856.6	68.91	-41.44	110.35	52.48	32.11	13.31	28.99	100	310	P	H
		5876.8	57.86	-46	103.86	41.37	32.15	13.33	28.99	100	310	P	H
		5926.8	55.07	-13.13	68.2	38.38	32.31	13.36	28.98	100	310	P	H
802.11ac													H
VHT20													H
CH 165	*	5825	111.76	-	-	95.36	32.1	13.3	29	395	313	P	V
5825MHz	*	5825	103.75	-	-	87.35	32.1	13.3	29	395	313	A	V
		5850.2	69.66	-52.08	121.74	53.25	32.1	13.31	29	395	313	P	V
		5855	62.57	-48.23	110.8	46.14	32.11	13.31	28.99	395	313	P	V
		5877.4	56.63	-46.79	103.42	40.14	32.15	13.33	28.99	395	313	P	V
		5927	55.44	-12.76	68.2	38.75	32.31	13.36	28.98	395	313	P	V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.

Band 4 5725~5850MHz

WIFI 802.11ac VHT20 (Harmonic @ 3m)

WIFI Ant. 1	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)
		11490	49.87	-24.13	74	50.01	40.1	20.66	60.9	100	0	P	H
		17235	52.77	-15.43	68.2	44.27	40.84	26.48	58.82	100	0	P	H
802.11ac													H
VHT20													H
CH 149		11490	49.94	-24.06	74	50.08	40.1	20.66	60.9	100	0	P	V
5745MHz		17235	52.76	-15.44	68.2	44.26	40.84	26.48	58.82	100	0	P	V
													V
													V
		11570	49.94	-24.06	74	50.27	39.89	20.76	60.98	100	0	P	H
		17355	53.32	-14.88	68.2	43.92	41.38	26.69	58.67	100	0	P	H
802.11ac													H
VHT20													H
CH 157		11570	49.84	-24.16	74	50.17	39.89	20.76	60.98	100	0	P	V
5785MHz		17355	52.34	-15.86	68.2	42.94	41.38	26.69	58.67	100	0	P	V
													V
													V
		11650	49.9	-24.1	74	50.53	39.6	20.85	61.08	100	0	P	H
		17475	53.03	-15.17	68.2	42.7	41.97	26.89	58.53	100	0	P	H
802.11ac													H
VHT20													H
CH 165		11650	49.83	-24.17	74	50.46	39.6	20.85	61.08	100	0	P	V
5825MHz		17475	53.7	-14.5	68.2	43.37	41.97	26.89	58.53	100	0	P	V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.

Band 4 5725~5850MHz

WIFI 802.11ac VHT40 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5624.6	54.51	-13.69	68.2	38.86	31.7	13	29.05	100	309	P	H
		5699.2	63.89	-40.72	104.61	48	31.8	13.12	29.03	100	309	P	H
		5719	77.11	-33.41	110.52	61.11	31.88	13.15	29.03	100	309	P	H
		5724	78.54	-41.38	119.92	62.51	31.9	13.16	29.03	100	309	P	H
	*	5755	110.75	-	-	94.55	32.01	13.21	29.02	100	309	P	H
	*	5755	102.89	-	-	86.69	32.01	13.21	29.02	100	309	A	H
		5854.8	54.87	-56.39	111.26	38.44	32.11	13.31	28.99	100	309	P	H
		5866.8	56.64	-50.85	107.49	40.18	32.13	13.32	28.99	100	309	P	H
		5880.2	55.72	-45.62	101.34	39.22	32.16	13.33	28.99	100	309	P	H
		5938.6	56.35	-11.85	68.2	39.61	32.35	13.36	28.97	100	309	P	H
802.11ac													H
VHT40													H
CH 151		5643.2	54.27	-13.93	68.2	38.59	31.7	13.03	29.05	381	311	P	V
5755MHz		5696.4	58.44	-44.11	102.55	42.57	31.79	13.11	29.03	381	311	P	V
		5718.8	70.88	-39.58	110.46	54.88	31.88	13.15	29.03	381	311	P	V
		5724.2	71.66	-48.72	120.38	55.63	31.9	13.16	29.03	381	311	P	V
	*	5755	107.14	-	-	90.94	32.01	13.21	29.02	381	311	P	V
	*	5755	99.43	-	-	83.23	32.01	13.21	29.02	381	311	A	V
		5852.2	53.47	-63.71	117.18	37.06	32.1	13.31	29	381	311	P	V
		5861	55.28	-53.84	109.12	38.83	32.12	13.32	28.99	381	311	P	V
		5918.2	54.62	-18.59	73.21	37.98	32.27	13.35	28.98	381	311	P	V
		5934.6	54.99	-13.21	68.2	38.27	32.34	13.36	28.98	381	311	P	V
													V
													V

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5605.8	55.12	-13.08	68.2	39.5	31.7	12.97	29.05	100	309	P	H
		5692	54.59	-44.71	99.3	38.73	31.78	13.11	29.03	100	309	P	H
		5719.6	56.86	-53.83	110.69	40.86	31.88	13.15	29.03	100	309	P	H
		5724.8	58.85	-62.89	121.74	42.82	31.9	13.16	29.03	100	309	P	H
	*	5795	110.56	-	-	94.21	32.09	13.27	29.01	100	309	P	H
	*	5795	102.71	-	-	86.36	32.09	13.27	29.01	100	309	A	H
		5852.8	61.52	-54.3	115.82	45.1	32.11	13.31	29	100	309	P	H
		5856.6	60.16	-50.19	110.35	43.73	32.11	13.31	28.99	100	309	P	H
		5885	55.9	-41.87	97.77	39.39	32.17	13.33	28.99	100	309	P	H
		5931.8	54.47	-13.73	68.2	37.76	32.33	13.36	28.98	100	309	P	H
802.11ac													H
VHT40													H
CH 159		5617	53.9	-14.3	68.2	38.26	31.7	12.99	29.05	397	311	P	V
5795MHz		5685.2	54.17	-40.11	94.28	38.34	31.77	13.1	29.04	397	311	P	V
		5714.4	54.51	-54.72	109.23	38.54	31.86	13.14	29.03	397	311	P	V
		5724	57.39	-62.53	119.92	41.36	31.9	13.16	29.03	397	311	P	V
	*	5795	107.41	-	-	91.06	32.09	13.27	29.01	397	311	P	V
	*	5795	99.48	-	-	83.13	32.09	13.27	29.01	397	311	A	V
		5854.2	57.19	-55.43	112.62	40.76	32.11	13.31	28.99	397	311	P	V
		5860	55.93	-53.47	109.4	39.48	32.12	13.32	28.99	397	311	P	V
		5875.6	54.89	-49.86	104.75	38.4	32.15	13.33	28.99	397	311	P	V
		5938.6	54.87	-13.33	68.2	38.13	32.35	13.36	28.97	397	311	P	V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.

Band 4 5725~5850MHz

WIFI 802.11ac VHT40 (Harmonic @ 3m)

WIFI Ant. 1	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)
		11510	49.84	-24.16	74	49.98	40.07	20.7	60.91	100	0	P	H
		17265	51.88	-16.32	68.2	43.17	40.96	26.53	58.78	100	0	P	H
802.11ac													H
VHT40													H
CH 151		11510	49.89	-24.11	74	50.03	40.07	20.7	60.91	100	0	P	V
5755MHz		17265	53.1	-15.1	68.2	44.39	40.96	26.53	58.78	100	0	P	V
													V
													V
		11590	49.86	-24.14	74	50.26	39.83	20.78	61.01	100	0	P	H
		17385	53.74	-14.46	68.2	44.12	41.52	26.74	58.64	100	0	P	H
802.11ac													H
VHT40													H
CH 159		11590	49.93	-24.07	74	50.33	39.83	20.78	61.01	100	0	P	V
5795MHz		17385	53.04	-15.16	68.2	43.42	41.52	26.74	58.64	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 4 5725~5850MHz

WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5648.8	57.45	-10.75	68.2	41.75	31.7	13.04	29.04	100	255	P	H
		5697.2	70	-33.14	103.14	54.12	31.79	13.12	29.03	100	255	P	H
		5718.8	72.78	-37.68	110.46	56.78	31.88	13.15	29.03	100	255	P	H
		5722.2	72.69	-43.13	115.82	56.67	31.89	13.16	29.03	100	255	P	H
	*	5775	106.69	-	-	90.41	32.05	13.24	29.01	100	255	P	H
	*	5775	98.98	-	-	82.7	32.05	13.24	29.01	100	255	A	H
		5850	70.85	-51.35	122.2	54.44	32.1	13.31	29	100	255	P	H
		5855	70.41	-40.39	110.8	53.98	32.11	13.31	28.99	100	255	P	H
		5878.4	63.29	-39.38	102.67	46.79	32.16	13.33	28.99	100	255	P	H
		5947.2	55.46	-12.74	68.2	38.67	32.39	13.37	28.97	100	255	P	H
802.11ac													H
VHT80													H
CH 155		5634.6	55.58	-12.62	68.2	39.91	31.7	13.02	29.05	399	316	P	V
5775MHz		5697.4	67.27	-36.01	103.28	51.39	31.79	13.12	29.03	399	316	P	V
		5717.2	70.22	-39.8	110.02	54.23	31.87	13.15	29.03	399	316	P	V
		5720.4	69.52	-42.19	111.71	53.52	31.88	13.15	29.03	399	316	P	V
	*	5775	104.57	-	-	88.29	32.05	13.24	29.01	399	316	P	V
	*	5775	97.1	-	-	80.82	32.05	13.24	29.01	399	316	A	V
		5852.8	64.62	-51.2	115.82	48.2	32.11	13.31	29	399	316	P	V
		5859.2	64.24	-45.38	109.62	47.79	32.12	13.32	28.99	399	316	P	V
		5875	58.86	-46.34	105.2	42.38	32.15	13.32	28.99	399	316	P	V
		5931.8	54.95	-13.25	68.2	38.24	32.33	13.36	28.98	399	316	P	V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.

Band 4 5725~5850MHz

WIFI 802.11ac VHT80 (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		11550	49.94	-24.06	74	50.21	39.95	20.74	60.96	100	0	P	H
		17325	52.33	-15.87	68.2	43.18	41.22	26.64	58.71	100	0	P	H
802.11ac													H
VHT80													H
CH 155		11550	49.93	-24.07	74	50.2	39.95	20.74	60.96	100	0	P	V
5775MHz		17325	53.07	-15.13	68.2	43.92	41.22	26.64	58.71	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Emission below 1GHz

5GHz WIFI 802.11ac VHT80 (LF)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		144.46	32.7	-10.8	43.5	45.66	17.21	2.11	32.28	-	-	P	H
		229.82	25.61	-20.39	46	39.05	16.25	2.64	32.33	-	-	P	H
		458.74	25.5	-20.5	46	30.66	23.35	3.63	32.14	-	-	P	H
		640.13	28.17	-17.83	46	29.45	26.4	4.33	32.01	-	-	P	H
		741.98	31.35	-14.65	46	30.86	28.05	4.68	32.24	-	-	P	H
		898.15	37.24	-8.76	46	35.03	28.99	5.15	31.93	100	0	P	H
													H
													H
													H
													H
5GHz													H
802.11ac													H
VHT80		53.28	33.21	-6.79	40	51.57	12.82	1.24	32.42	100	0	P	V
LF		147.37	26.48	-17.02	43.5	39.6	17.02	2.14	32.28	-	-	P	V
		363.68	21.31	-24.69	46	29.53	20.79	3.25	32.26	-	-	P	V
		561.56	28.66	-17.34	46	30.42	26.17	4.06	31.99	-	-	P	V
		746.83	31.52	-14.48	46	30.97	28.1	4.7	32.25	-	-	P	V
		897.18	32.97	-13.03	46	30.78	28.98	5.14	31.93	-	-	P	V
													V
													V
													V
													V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against limit line.

Band 4 - 5725~5850MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 149 5745MHz		5648	54.76	-13.44	68.2	39.06	31.7	13.04	29.04	110	69	P	H
		5700	62.2	-43	105.2	46.31	31.8	13.12	29.03	110	69	P	H
		5719.2	72.32	-38.26	110.58	56.32	31.88	13.15	29.03	110	69	P	H
		5725	85.81	-36.39	122.2	69.78	31.9	13.16	29.03	110	69	P	H
	*	5745	116.58	-	-	100.43	31.98	13.19	29.02	110	69	P	H
	*	5745	108.77	-	-	92.62	31.98	13.19	29.02	110	69	A	H
													H
													H
		5649.8	54.77	-13.43	68.2	39.07	31.7	13.04	29.04	101	236	P	V
		5699	59.86	-44.6	104.46	43.97	31.8	13.12	29.03	101	236	P	V
		5718.8	68.72	-41.74	110.46	52.72	31.88	13.15	29.03	101	236	P	V
		5724.4	80.23	-40.6	120.83	64.2	31.9	13.16	29.03	101	236	P	V
	*	5745	112.89	-	-	96.74	31.98	13.19	29.02	101	236	P	V
	*	5745	105.33	-	-	89.18	31.98	13.19	29.02	101	236	A	V
													V
													V

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5636.4	54.61	-13.59	68.2	38.94	31.7	13.02	29.05	100	73	P	H
		5670.4	54.21	-29.13	83.34	38.44	31.74	13.07	29.04	100	73	P	H
		5718.6	57.13	-53.28	110.41	41.14	31.87	13.15	29.03	100	73	P	H
		5723	58.22	-59.42	117.64	42.2	31.89	13.16	29.03	100	73	P	H
	*	5785	116.06	-	-	99.74	32.07	13.26	29.01	100	73	P	H
	*	5785	108.43	-	-	92.11	32.07	13.26	29.01	100	73	A	H
		5850.6	56.91	-63.92	120.83	40.5	32.1	13.31	29	100	73	P	H
		5860.2	56.99	-52.35	109.34	40.54	32.12	13.32	28.99	100	73	P	H
		5899	56.07	-31.33	87.4	39.51	32.2	13.34	28.98	100	73	P	H
		5936.2	54.39	-13.81	68.2	37.67	32.34	13.36	28.98	100	73	P	H
													H
802.11a CH 157 5785MHz													H
		5605	54.47	-13.73	68.2	38.85	31.7	12.97	29.05	107	235	P	V
		5679.6	54.39	-35.75	90.14	38.58	31.76	13.09	29.04	107	235	P	V
		5703.8	55.46	-50.81	106.27	39.54	31.82	13.13	29.03	107	235	P	V
		5724	57.16	-62.76	119.92	41.13	31.9	13.16	29.03	107	235	P	V
	*	5785	112.66	-	-	96.34	32.07	13.26	29.01	107	235	P	V
	*	5785	104.98	-	-	88.66	32.07	13.26	29.01	107	235	A	V
		5855	55.78	-55.02	110.8	39.35	32.11	13.31	28.99	107	235	P	V
		5872.2	55.86	-50.12	105.98	39.39	32.14	13.32	28.99	107	235	P	V
		5891.8	56.81	-35.92	92.73	40.28	32.18	13.34	28.99	107	235	P	V
		5943.6	55.7	-12.5	68.2	38.93	32.37	13.37	28.97	107	235	P	V
													V
													V

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
	*	5825	115.31	-	-	98.91	32.1	13.3	29	100	73	P	H
	*	5825	107.78	-	-	91.38	32.1	13.3	29	100	73	A	H
		5850	73.88	-48.32	122.2	57.47	32.1	13.31	29	100	73	P	H
		5855.2	70.26	-40.48	110.74	53.83	32.11	13.31	28.99	100	73	P	H
		5881.8	58.4	-41.75	100.15	41.9	32.16	13.33	28.99	100	73	P	H
		5943.4	55.76	-12.44	68.2	38.99	32.37	13.37	28.97	100	73	P	H
													H
802.11a													H
CH 165	*	5825	111.95	-	-	95.55	32.1	13.3	29	100	231	P	V
5825MHz	*	5825	104.5	-	-	88.1	32.1	13.3	29	100	231	A	V
		5850.4	68.45	-52.84	121.29	52.04	32.1	13.31	29	100	231	P	V
		5855.6	68.86	-41.77	110.63	52.43	32.11	13.31	28.99	100	231	P	V
		5878	57.89	-45.08	102.97	41.39	32.16	13.33	28.99	100	231	P	V
		5944.4	54.79	-13.41	68.2	38.01	32.38	13.37	28.97	100	231	P	V
													V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.

Band 4 5725~5850MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 149 5745MHz		11490	49.94	-24.06	74	50.08	40.1	20.66	60.9	100	0	P	H
		17235	53.13	-15.07	68.2	44.63	40.84	26.48	58.82	100	0	P	H
													H
													H
		11490	49.92	-24.08	74	50.06	40.1	20.66	60.9	100	0	P	V
		17235	52.36	-15.84	68.2	43.86	40.84	26.48	58.82	100	0	P	V
													V
													V
802.11a CH 157 5785MHz		11570	49.9	-24.1	74	50.23	39.89	20.76	60.98	100	0	P	H
		17355	53.41	-14.79	68.2	44.01	41.38	26.69	58.67	100	0	P	H
													H
													H
		11570	49.94	-24.06	74	50.27	39.89	20.76	60.98	100	0	P	V
		17355	53.53	-14.67	68.2	44.13	41.38	26.69	58.67	100	0	P	V
													V
													V
802.11a CH 165 5825MHz		11650	49.96	-24.04	74	50.59	39.6	20.85	61.08	100	0	P	H
		17475	53.28	-14.92	68.2	42.95	41.97	26.89	58.53	100	0	P	H
													H
													H
		11650	49.94	-24.06	74	50.57	39.6	20.85	61.08	100	0	P	V
		17475	53.2	-15	68.2	42.87	41.97	26.89	58.53	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 4 5725~5850MHz

WIFI 802.11ac VHT20 (Band Edge @ 3m)

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5643.4	53.85	-14.35	68.2	38.17	31.7	13.03	29.05	111	70	P	H
		5697.8	62.22	-41.36	103.58	46.33	31.8	13.12	29.03	111	70	P	H
		5719.4	75.77	-34.86	110.63	59.77	31.88	13.15	29.03	111	70	P	H
		5724.4	84.88	-35.95	120.83	68.85	31.9	13.16	29.03	111	70	P	H
	*	5745	114.77	-	-	98.62	31.98	13.19	29.02	111	70	P	H
	*	5745	107.36	-	-	91.21	31.98	13.19	29.02	111	70	A	H
802.11ac													H
VHT20													H
CH 149		5629.4	54.09	-14.11	68.2	38.43	31.7	13.01	29.05	102	236	P	V
5745MHz		5699.8	60.19	-44.86	105.05	44.3	31.8	13.12	29.03	102	236	P	V
		5720	71.02	-39.78	110.8	55.02	31.88	13.15	29.03	102	236	P	V
		5724	81.38	-38.54	119.92	65.35	31.9	13.16	29.03	102	236	P	V
	*	5745	111.25	-	-	95.1	31.98	13.19	29.02	102	236	P	V
	*	5745	104.02	-	-	87.87	31.98	13.19	29.02	102	236	A	V
													V
													V

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5640.6	53.79	-14.41	68.2	38.12	31.7	13.02	29.05	114	68	P	H
		5695.6	53.7	-48.26	101.96	37.83	31.79	13.11	29.03	114	68	P	H
		5714.6	56.22	-53.07	109.29	40.25	31.86	13.14	29.03	114	68	P	H
		5720.6	56.74	-55.43	112.17	40.74	31.88	13.15	29.03	114	68	P	H
	*	5785	114.36	-	-	98.04	32.07	13.26	29.01	114	68	P	H
	*	5785	107.18	-	-	90.86	32.07	13.26	29.01	114	68	A	H
		5853.2	56.16	-58.74	114.9	39.74	32.11	13.31	29	114	68	P	H
		5862	56.28	-52.56	108.84	39.83	32.12	13.32	28.99	114	68	P	H
		5891.2	54.68	-38.5	93.18	38.16	32.18	13.33	28.99	114	68	P	H
		5929.4	55.66	-12.54	68.2	38.96	32.32	13.36	28.98	114	68	P	H
802.11ac													H
VHT20													H
CH 157		5611	53.17	-15.03	68.2	37.54	31.7	12.98	29.05	106	237	P	V
5785MHz		5698	54.29	-49.44	103.73	38.4	31.8	13.12	29.03	106	237	P	V
		5713.4	54.77	-54.18	108.95	38.81	31.85	13.14	29.03	106	237	P	V
		5725	55.27	-66.93	122.2	39.24	31.9	13.16	29.03	106	237	P	V
	*	5785	111.7	-	-	95.38	32.07	13.26	29.01	106	237	P	V
	*	5785	104.46	-	-	88.14	32.07	13.26	29.01	106	237	A	V
		5851.4	56.24	-62.77	119.01	39.83	32.1	13.31	29	106	237	P	V
		5856.2	54.82	-55.64	110.46	38.39	32.11	13.31	28.99	106	237	P	V
		5900.6	54.54	-31.68	86.22	37.98	32.2	13.34	28.98	106	237	P	V
		5931	54.09	-14.11	68.2	37.39	32.32	13.36	28.98	106	237	P	V
													V
													V

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
	*	5825	114.5	-	-	98.1	32.1	13.3	29	100	72	P	H
	*	5825	107.04	-	-	90.64	32.1	13.3	29	100	72	A	H
		5850	74.96	-47.24	122.2	58.55	32.1	13.31	29	100	72	P	H
		5857.6	70.56	-39.51	110.07	54.12	32.12	13.31	28.99	100	72	P	H
		5878.8	58.97	-43.41	102.38	42.47	32.16	13.33	28.99	100	72	P	H
		5934.8	55.35	-12.85	68.2	38.63	32.34	13.36	28.98	100	72	P	H
802.11ac													H
VHT20													H
CH 165	*	5825	111.03	-	-	94.63	32.1	13.3	29	100	233	P	V
5825MHz	*	5825	103.73	-	-	87.33	32.1	13.3	29	100	233	A	V
		5850	73.28	-48.92	122.2	56.87	32.1	13.31	29	100	233	P	V
		5856.8	69.1	-41.2	110.3	52.67	32.11	13.31	28.99	100	233	P	V
		5876.8	55.78	-48.08	103.86	39.29	32.15	13.33	28.99	100	233	P	V
		5949.6	55.43	-12.77	68.2	38.63	32.4	13.37	28.97	100	233	P	V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.

Band 4 5725~5850MHz

WIFI 802.11ac VHT20 (Harmonic @ 3m)

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		11490	49.95	-24.05	74	50.09	40.1	20.66	60.9	100	0	P	H
		17235	53.87	-14.33	68.2	45.37	40.84	26.48	58.82	100	0	P	H
802.11ac													H
VHT20													H
CH 149		11490	49.81	-24.19	74	49.95	40.1	20.66	60.9	100	0	P	V
5745MHz		17235	52.04	-16.16	68.2	43.54	40.84	26.48	58.82	100	0	P	V
													V
													V
		11570	49.96	-24.04	74	50.29	39.89	20.76	60.98	100	0	P	H
		17355	53	-15.2	68.2	43.6	41.38	26.69	58.67	100	0	P	H
802.11ac													H
VHT20													H
CH 157		11570	49.88	-24.12	74	50.21	39.89	20.76	60.98	100	0	P	V
5785MHz		17355	52.29	-15.91	68.2	42.89	41.38	26.69	58.67	100	0	P	V
													V
													V
		11650	49.71	-24.29	74	50.34	39.6	20.85	61.08	100	0	P	H
		17475	53.39	-14.81	68.2	43.06	41.97	26.89	58.53	100	0	P	H
802.11ac													H
VHT20													H
CH 165		11650	49.69	-24.31	74	50.32	39.6	20.85	61.08	100	0	P	V
5825MHz		17475	52.67	-15.53	68.2	42.34	41.97	26.89	58.53	100	0	P	V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.

Band 4 5725~5850MHz

WIFI 802.11ac VHT40 (Band Edge @ 3m)

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5645.8	55.58	-12.62	68.2	39.9	31.7	13.03	29.05	106	70	P	H
		5697.4	69.34	-33.94	103.28	53.46	31.79	13.12	29.03	106	70	P	H
		5718.8	82.78	-27.68	110.46	66.78	31.88	13.15	29.03	106	70	P	H
		5721.6	83.7	-30.75	114.45	67.69	31.89	13.15	29.03	106	70	P	H
	*	5755	111.82	-	-	95.62	32.01	13.21	29.02	106	70	P	H
	*	5755	104.14	-	-	87.94	32.01	13.21	29.02	106	70	A	H
		5852.8	57.93	-57.89	115.82	41.51	32.11	13.31	29	106	70	P	H
		5857	56.42	-53.82	110.24	39.99	32.11	13.31	28.99	106	70	P	H
		5880	55.47	-46.02	101.49	38.97	32.16	13.33	28.99	106	70	P	H
		5935	55.65	-12.55	68.2	38.93	32.34	13.36	28.98	106	70	P	H
802.11ac													H
VHT40													H
CH 151		5642	53.59	-14.61	68.2	37.91	31.7	13.03	29.05	100	235	P	V
5755MHz		5697.6	65.49	-37.94	103.43	49.6	31.8	13.12	29.03	100	235	P	V
		5719	80.83	-29.69	110.52	64.83	31.88	13.15	29.03	100	235	P	V
		5724.2	81.04	-39.34	120.38	65.01	31.9	13.16	29.03	100	235	P	V
	*	5755	109.15	-	-	92.95	32.01	13.21	29.02	100	235	P	V
	*	5755	101.27	-	-	85.07	32.01	13.21	29.02	100	235	A	V
		5853	54.91	-60.45	115.36	38.49	32.11	13.31	29	100	235	P	V
		5864.4	55.37	-52.8	108.17	38.91	32.13	13.32	28.99	100	235	P	V
		5913.6	55.34	-21.27	76.61	38.72	32.25	13.35	28.98	100	235	P	V
		5946.6	54.57	-13.63	68.2	37.78	32.39	13.37	28.97	100	235	P	V
													V
													V

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5623.2	52.77	-15.43	68.2	37.12	31.7	13	29.05	101	72	P	H
		5697.6	55.91	-47.52	103.43	40.02	31.8	13.12	29.03	101	72	P	H
		5718.6	61.38	-49.03	110.41	45.39	31.87	13.15	29.03	101	72	P	H
		5724.8	62.31	-59.43	121.74	46.28	31.9	13.16	29.03	101	72	P	H
	*	5795	111.83	-	-	95.48	32.09	13.27	29.01	101	72	P	H
	*	5795	104.07	-	-	87.72	32.09	13.27	29.01	101	72	A	H
		5852.6	68.35	-47.92	116.27	51.93	32.11	13.31	29	101	72	P	H
		5857	66.87	-43.37	110.24	50.44	32.11	13.31	28.99	101	72	P	H
		5877.2	60.84	-42.73	103.57	44.35	32.15	13.33	28.99	101	72	P	H
		5936.6	55.88	-12.32	68.2	39.15	32.35	13.36	28.98	101	72	P	H
802.11ac													H
VHT40													H
CH 159		5649.8	53.61	-14.59	68.2	37.91	31.7	13.04	29.04	100	235	P	V
5795MHz		5699	54.88	-49.58	104.46	38.99	31.8	13.12	29.03	100	235	P	V
		5719	58.06	-52.46	110.52	42.06	31.88	13.15	29.03	100	235	P	V
		5722.6	59.86	-56.87	116.73	43.84	31.89	13.16	29.03	100	235	P	V
	*	5795	108.76	-	-	92.41	32.09	13.27	29.01	100	235	P	V
	*	5795	101.12	-	-	84.77	32.09	13.27	29.01	100	235	A	V
		5852.6	65.25	-51.02	116.27	48.83	32.11	13.31	29	100	235	P	V
		5855.2	62.29	-48.45	110.74	45.86	32.11	13.31	28.99	100	235	P	V
		5875.8	58.24	-46.37	104.61	41.75	32.15	13.33	28.99	100	235	P	V
		5946.2	54.65	-13.55	68.2	37.87	32.38	13.37	28.97	100	235	P	V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.

Band 4 5725~5850MHz

WIFI 802.11ac VHT40 (Harmonic @ 3m)

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		11510	49.77	-24.23	74	49.91	40.07	20.7	60.91	100	0	P	H
		17265	51.83	-16.37	68.2	43.12	40.96	26.53	58.78	100	0	P	H
802.11ac													H
VHT40													H
CH 151		11510	49.81	-24.19	74	49.95	40.07	20.7	60.91	100	0	P	V
5755MHz		17265	51.71	-16.49	68.2	43	40.96	26.53	58.78	100	0	P	V
													V
													V
		11590	49.83	-24.17	74	50.23	39.83	20.78	61.01	100	0	P	H
		17385	52.68	-15.52	68.2	43.06	41.52	26.74	58.64	100	0	P	H
802.11ac													H
VHT40													H
CH 159		11590	49.88	-24.12	74	50.28	39.83	20.78	61.01	100	0	P	V
5795MHz		17385	51.98	-16.22	68.2	42.36	41.52	26.74	58.64	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 4 5725~5850MHz

WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5644.4	64.51	-3.69	68.2	48.57	31.96	13.03	29.05	100	73	P	H
		5699.4	76.83	-27.93	104.76	60.68	32.06	13.12	29.03	100	73	P	H
		5716.8	80.52	-29.39	109.91	64.31	32.09	13.15	29.03	100	73	P	H
		5720.4	81.2	-30.51	111.71	64.98	32.1	13.15	29.03	100	73	P	H
	*	5775	108.18	-	-	91.76	32.19	13.24	29.01	100	73	P	H
	*	5775	100.63	-	-	84.21	32.19	13.24	29.01	100	73	A	H
		5852.8	78.94	-36.88	115.82	62.29	32.34	13.31	29	100	73	P	H
		5858.4	77.1	-32.75	109.85	60.42	32.35	13.32	28.99	100	73	P	H
		5875.4	70.04	-34.86	104.9	53.32	32.38	13.33	28.99	100	73	P	H
		5930.2	58.49	-9.71	68.2	41.64	32.47	13.36	28.98	100	73	P	H
802.11ac													H
VHT80													H
CH 155		5644.2	61.61	-6.59	68.2	45.67	31.96	13.03	29.05	100	236	P	V
5775MHz		5697.4	74.51	-28.77	103.28	58.36	32.06	13.12	29.03	100	236	P	V
		5717.2	77.82	-32.2	110.02	61.61	32.09	13.15	29.03	100	236	P	V
		5720.4	77.87	-33.84	111.71	61.65	32.1	13.15	29.03	100	236	P	V
	*	5775	105.42	-	-	89	32.19	13.24	29.01	100	236	P	V
	*	5775	98.04	-	-	81.62	32.19	13.24	29.01	100	236	A	V
		5853.8	74.36	-39.18	113.54	57.71	32.34	13.31	29	100	236	P	V
		5855	73.71	-37.09	110.8	57.05	32.34	13.31	28.99	100	236	P	V
		5875.8	67.43	-37.18	104.61	50.71	32.38	13.33	28.99	100	236	P	V
		5927.8	56.06	-12.14	68.2	39.21	32.47	13.36	28.98	100	236	P	V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.

Band 4 5725~5850MHz

WIFI 802.11ac VHT80 (Harmonic @ 3m)

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		11550	49.85	-24.15	74	50.12	39.95	20.74	60.96	100	0	P	H
		17325	51.98	-16.22	68.2	42.83	41.22	26.64	58.71	100	0	P	H
802.11ac													H
VHT80													H
CH 155		11550	49.9	-24.1	74	50.17	39.95	20.74	60.96	100	0	P	V
5775MHz		17325	52.28	-15.92	68.2	43.13	41.22	26.64	58.71	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Emission below 1GHz

5GHz WIFI 802.11ac VHT80 (LF)

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		144.46	33.07	-10.43	43.5	46.03	17.21	2.11	32.28	100	0	P	H
		265.71	23.95	-22.05	46	33.54	19.9	2.86	32.35	-	-	P	H
		418	23.84	-22.16	46	29.95	22.57	3.5	32.18	-	-	P	H
		507.24	25.92	-20.08	46	30.18	24.03	3.79	32.08	-	-	P	H
		671.17	29.11	-16.89	46	30.48	26.27	4.44	32.08	-	-	P	H
		786.6	33.54	-12.46	46	32.98	28.07	4.83	32.34	-	-	P	H
													H
													H
													H
													H
5GHz													H
802.11ac													H
VHT80		53.28	33.28	-6.72	40	51.64	12.82	1.24	32.42	100	0	P	V
LF		190.05	21.74	-21.76	43.5	36.96	14.69	2.4	32.31	-	-	P	V
		368.53	21.55	-24.45	46	29.7	20.83	3.27	32.25	-	-	P	V
		486.87	25.76	-20.24	46	30.4	23.74	3.72	32.1	-	-	P	V
		662.44	29.57	-16.43	46	30.98	26.25	4.4	32.06	-	-	P	V
		797.27	35.3	-10.7	46	34.82	27.98	4.86	32.36	-	-	P	V
													V
													V
													V
													V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against limit line.

Band 4 - 5725~5850MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 149 5745MHz		5649	54.1	-14.1	68.2	38.4	31.7	13.04	29.04	100	336	P	H
		5697.2	56.86	-46.28	103.14	40.98	31.79	13.12	29.03	100	336	P	H
		5718	70.26	-39.98	110.24	54.27	31.87	13.15	29.03	100	336	P	H
		5723.8	80.64	-38.82	119.46	64.61	31.9	13.16	29.03	100	336	P	H
	*	5745	117.07	-	-	100.92	31.98	13.19	29.02	100	336	P	H
	*	5745	109.21	-	-	93.06	31.98	13.19	29.02	100	336	A	H
													H
													H
		5639	54.18	-14.02	68.2	38.51	31.7	13.02	29.05	100	96	P	V
		5699.2	58.32	-46.29	104.61	42.43	31.8	13.12	29.03	100	96	P	V
		5720	71.15	-39.65	110.8	55.15	31.88	13.15	29.03	100	96	P	V
		5725	82.46	-39.74	122.2	66.43	31.9	13.16	29.03	100	96	P	V
	*	5745	118.08	-	-	101.93	31.98	13.19	29.02	100	96	P	V
	*	5745	110.85	-	-	94.7	31.98	13.19	29.02	100	96	A	V
													V
													V

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5629	53.97	-14.23	68.2	38.31	31.7	13.01	29.05	100	337	P	H
		5695.4	55.77	-46.04	101.81	39.9	31.79	13.11	29.03	100	337	P	H
		5719.2	57.74	-52.84	110.58	41.74	31.88	13.15	29.03	100	337	P	H
		5724.8	58.91	-62.83	121.74	42.88	31.9	13.16	29.03	100	337	P	H
	*	5785	118.25	-	-	101.93	32.07	13.26	29.01	100	337	P	H
	*	5785	110.34	-	-	94.02	32.07	13.26	29.01	100	337	A	H
		5850.6	58.45	-62.38	120.83	42.04	32.1	13.31	29	100	337	P	H
		5856.2	56.98	-53.48	110.46	40.55	32.11	13.31	28.99	100	337	P	H
		5877.8	55.85	-47.27	103.12	39.35	32.16	13.33	28.99	100	337	P	H
		5931.4	54.62	-13.58	68.2	37.91	32.33	13.36	28.98	100	337	P	H
													H
802.11a CH 157 5785MHz													H
		5649.8	54.72	-13.48	68.2	39.02	31.7	13.04	29.04	100	91	P	V
		5697.2	56.69	-46.45	103.14	40.81	31.79	13.12	29.03	100	91	P	V
		5718.4	60.49	-49.86	110.35	44.5	31.87	13.15	29.03	100	91	P	V
		5724.2	61.65	-58.73	120.38	45.62	31.9	13.16	29.03	100	91	P	V
	*	5785	118.96	-	-	102.64	32.07	13.26	29.01	100	91	P	V
	*	5785	111.78	-	-	95.46	32.07	13.26	29.01	100	91	A	V
		5853.2	57.96	-56.94	114.9	41.54	32.11	13.31	29	100	91	P	V
		5855	57.73	-53.07	110.8	41.3	32.11	13.31	28.99	100	91	P	V
		5885.2	56.02	-41.61	97.63	39.51	32.17	13.33	28.99	100	91	P	V
		5928.8	55.39	-12.81	68.2	38.69	32.32	13.36	28.98	100	91	P	V
													V
													V

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
	*	5825	118.2	-	-	101.8	32.1	13.3	29	108	336	P	H
	*	5825	110.93	-	-	94.53	32.1	13.3	29	108	336	A	H
		5850.8	82.4	-37.98	120.38	65.99	32.1	13.31	29	108	336	P	H
		5856	74.04	-36.48	110.52	57.61	32.11	13.31	28.99	108	336	P	H
		5875.2	64.68	-40.37	105.05	48.19	32.15	13.33	28.99	108	336	P	H
		5948.2	55.65	-12.55	68.2	38.86	32.39	13.37	28.97	108	336	P	H
													H
802.11a													H
CH 165	*	5825	119.71	-	-	103.31	32.1	13.3	29	108	96	P	V
5825MHz	*	5825	111.49	-	-	95.09	32.1	13.3	29	108	96	A	V
		5850	79.83	-42.37	122.2	63.42	32.1	13.31	29	108	96	P	V
		5855	74.1	-36.7	110.8	57.67	32.11	13.31	28.99	108	96	P	V
		5877.6	64.78	-38.49	103.27	48.28	32.16	13.33	28.99	108	96	P	V
		5926	54.92	-13.28	68.2	38.24	32.3	13.36	28.98	108	96	P	V
													V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.

Band 4 5725~5850MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 149 5745MHz		11490	49.93	-24.07	74	50.07	40.1	20.66	60.9	100	0	P	H
		17235	52.53	-15.67	68.2	44.03	40.84	26.48	58.82	100	0	P	H
													H
													H
		11490	49.91	-24.09	74	50.05	40.1	20.66	60.9	100	0	P	V
		17235	52	-16.2	68.2	43.5	40.84	26.48	58.82	100	0	P	V
													V
													V
802.11a CH 157 5785MHz		11570	49.91	-24.09	74	50.24	39.89	20.76	60.98	100	0	P	H
		17355	52.62	-15.58	68.2	43.22	41.38	26.69	58.67	100	0	P	H
													H
													H
		11570	49.95	-24.05	74	50.28	39.89	20.76	60.98	100	0	P	V
		17355	53.05	-15.15	68.2	43.65	41.38	26.69	58.67	100	0	P	V
													V
													V
802.11a CH 165 5825MHz		11650	49.96	-24.04	74	50.59	39.6	20.85	61.08	100	0	P	H
		17475	53.43	-14.77	68.2	43.1	41.97	26.89	58.53	100	0	P	H
													H
													H
		11650	49.97	-24.03	74	50.6	39.6	20.85	61.08	100	0	P	V
		17475	53.24	-14.96	68.2	42.91	41.97	26.89	58.53	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 4 5725~5850MHz

WIFI 802.11ac VHT20 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5624.2	53.96	-14.24	68.2	38.31	31.7	13	29.05	100	333	P	H
		5699.2	66.55	-38.06	104.61	50.66	31.8	13.12	29.03	100	333	P	H
		5719.4	82.07	-28.56	110.63	66.07	31.88	13.15	29.03	100	333	P	H
		5723	90.36	-27.28	117.64	74.34	31.89	13.16	29.03	100	333	P	H
	*	5745	116.23	-	-	100.08	31.98	13.19	29.02	100	333	P	H
	*	5745	108.47	-	-	92.32	31.98	13.19	29.02	100	333	A	H
802.11ac													H
VHT20													H
CH 149		5644	54.38	-13.82	68.2	38.7	31.7	13.03	29.05	110	91	P	V
5745MHz		5698.2	67.65	-36.22	103.87	51.76	31.8	13.12	29.03	110	91	P	V
		5720	80.81	-29.99	110.8	64.81	31.88	13.15	29.03	110	91	P	V
		5724.8	92.29	-29.45	121.74	76.26	31.9	13.16	29.03	110	91	P	V
	*	5745	117.86	-	-	101.71	31.98	13.19	29.02	110	91	P	V
	*	5745	110.93	-	-	94.78	31.98	13.19	29.02	110	91	A	V
													V
													V

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5640.2	53.58	-14.62	68.2	37.91	31.7	13.02	29.05	103	334	P	H
		5683.4	54.75	-38.2	92.95	38.93	31.77	13.09	29.04	103	334	P	H
		5717.4	57.29	-52.78	110.07	41.3	31.87	13.15	29.03	103	334	P	H
		5724.4	64.19	-56.64	120.83	48.16	31.9	13.16	29.03	103	334	P	H
	*	5785	116.15	-	-	99.83	32.07	13.26	29.01	103	334	P	H
	*	5785	108.17	-	-	91.85	32.07	13.26	29.01	103	334	A	H
		5851.4	57.44	-61.57	119.01	41.03	32.1	13.31	29	103	334	P	H
		5857.4	56.09	-54.04	110.13	39.66	32.11	13.31	28.99	103	334	P	H
		5877.2	54.88	-48.69	103.57	38.39	32.15	13.33	28.99	103	334	P	H
		5933.8	54.27	-13.93	68.2	37.55	32.34	13.36	28.98	103	334	P	H
802.11ac													H
VHT20													H
CH 157		5639.8	53.53	-14.67	68.2	37.86	31.7	13.02	29.05	101	91	P	V
5785MHz		5697.8	56.77	-46.81	103.58	40.88	31.8	13.12	29.03	101	91	P	V
		5719	59.32	-51.2	110.52	43.32	31.88	13.15	29.03	101	91	P	V
		5724.6	61.57	-59.72	121.29	45.54	31.9	13.16	29.03	101	91	P	V
	*	5785	117.99	-	-	101.67	32.07	13.26	29.01	101	91	P	V
	*	5785	110.58	-	-	94.26	32.07	13.26	29.01	101	91	A	V
		5852.2	56.88	-60.3	117.18	40.47	32.1	13.31	29	101	91	P	V
		5859.8	58.06	-51.39	109.45	41.61	32.12	13.32	28.99	101	91	P	V
		5899.4	55.48	-31.62	87.1	38.92	32.2	13.34	28.98	101	91	P	V
		5942.2	55.25	-12.95	68.2	38.48	32.37	13.37	28.97	101	91	P	V
													V
													V

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
	*	5825	116.71	-	-	100.31	32.1	13.3	29	100	340	P	H
	*	5825	109.55	-	-	93.15	32.1	13.3	29	100	340	A	H
		5850.2	89.04	-32.7	121.74	72.63	32.1	13.31	29	100	340	P	H
		5855	74.67	-36.13	110.8	58.24	32.11	13.31	28.99	100	340	P	H
		5875	64.5	-40.7	105.2	48.02	32.15	13.32	28.99	100	340	P	H
		5932.4	55.91	-12.29	68.2	39.2	32.33	13.36	28.98	100	340	P	H
802.11ac													H
VHT20													H
CH 165	*	5825	118.25	-	-	101.85	32.1	13.3	29	105	91	P	V
5825MHz	*	5825	110.27	-	-	93.87	32.1	13.3	29	105	91	A	V
		5850	89.31	-32.89	122.2	72.9	32.1	13.31	29	105	91	P	V
		5855.4	77.78	-32.91	110.69	61.35	32.11	13.31	28.99	105	91	P	V
		5875.2	67.22	-37.83	105.05	50.73	32.15	13.33	28.99	105	91	P	V
		5933.6	55.63	-12.57	68.2	38.92	32.33	13.36	28.98	105	91	P	V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.

Band 4 5725~5850MHz

WIFI 802.11ac VHT20 (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		11490	49.89	-24.11	74	50.03	40.1	20.66	60.9	100	0	P	H
		17235	51.7	-16.5	68.2	43.2	40.84	26.48	58.82	100	0	P	H
802.11ac													H
VHT20													H
CH 149		11490	49.92	-24.08	74	50.06	40.1	20.66	60.9	100	0	P	V
5745MHz		17235	52.22	-15.98	68.2	43.72	40.84	26.48	58.82	100	0	P	V
													V
													V
		11570	49.88	-24.12	74	50.21	39.89	20.76	60.98	100	0	P	H
		17355	52.43	-15.77	68.2	43.03	41.38	26.69	58.67	100	0	P	H
802.11ac													H
VHT20													H
CH 157		11570	49.92	-24.08	74	50.25	39.89	20.76	60.98	100	0	P	V
5785MHz		17355	51.89	-16.31	68.2	42.49	41.38	26.69	58.67	100	0	P	V
													V
													V
		11650	49.72	-24.28	74	50.35	39.6	20.85	61.08	100	0	P	H
		17475	53.7	-14.5	68.2	43.37	41.97	26.89	58.53	100	0	P	H
802.11ac													H
VHT20													H
CH 165		11650	49.83	-24.17	74	50.46	39.6	20.85	61.08	100	0	P	V
5825MHz		17475	52.34	-15.86	68.2	42.01	41.97	26.89	58.53	100	0	P	V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.

Band 4 5725~5850MHz

WIFI 802.11ac VHT40 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5643	60.72	-7.48	68.2	45.04	31.7	13.03	29.05	100	334	P	H
		5696.6	75.07	-27.62	102.69	59.2	31.79	13.11	29.03	100	334	P	H
		5718.6	89.83	-20.58	110.41	73.84	31.87	13.15	29.03	100	334	P	H
		5723.2	92.2	-25.9	118.1	76.18	31.89	13.16	29.03	100	334	P	H
	*	5755	113.54	-	-	97.34	32.01	13.21	29.02	100	334	P	H
	*	5755	106.46	-	-	90.26	32.01	13.21	29.02	100	334	A	H
		5854.8	64.25	-47.01	111.26	47.82	32.11	13.31	28.99	100	334	P	H
		5855	64.23	-46.57	110.8	47.8	32.11	13.31	28.99	100	334	P	H
		5875	59.49	-45.71	105.2	43.01	32.15	13.32	28.99	100	334	P	H
		5927.2	56	-12.2	68.2	39.31	32.31	13.36	28.98	100	334	P	H
802.11ac													H
VHT40													H
CH 151		5647.6	64.02	-4.18	68.2	48.32	31.7	13.04	29.04	107	93	P	V
5755MHz		5698.8	78.05	-26.27	104.32	62.16	31.8	13.12	29.03	107	93	P	V
		5718.4	92.33	-18.02	110.35	76.34	31.87	13.15	29.03	107	93	P	V
		5721.4	94.24	-19.75	113.99	78.23	31.89	13.15	29.03	107	93	P	V
	*	5755	116.18	-	-	99.98	32.01	13.21	29.02	107	93	P	V
	*	5755	108.6	-	-	92.4	32.01	13.21	29.02	107	93	A	V
		5853.8	64.51	-49.03	113.54	48.09	32.11	13.31	29	107	93	P	V
		5856	62.3	-48.22	110.52	45.87	32.11	13.31	28.99	107	93	P	V
		5883.2	57.47	-41.64	99.11	40.96	32.17	13.33	28.99	107	93	P	V
		5947.6	54.8	-13.4	68.2	38.01	32.39	13.37	28.97	107	93	P	V
													V
													V

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5625.2	54.89	-13.31	68.2	39.24	31.7	13	29.05	101	335	P	H
		5695.8	61.49	-40.61	102.1	45.62	31.79	13.11	29.03	101	335	P	H
		5710.2	66.41	-41.65	108.06	50.46	31.84	13.14	29.03	101	335	P	H
		5723.2	66.82	-51.28	118.1	50.8	31.89	13.16	29.03	101	335	P	H
	*	5795	113.68	-	-	97.33	32.09	13.27	29.01	101	335	P	H
	*	5795	106.61	-	-	90.26	32.09	13.27	29.01	101	335	A	H
		5850.2	73.63	-48.11	121.74	57.22	32.1	13.31	29	101	335	P	H
		5857.2	71.22	-38.96	110.18	54.79	32.11	13.31	28.99	101	335	P	H
		5875	64.73	-40.47	105.2	48.25	32.15	13.32	28.99	101	335	P	H
		5933.6	55.22	-12.98	68.2	38.51	32.33	13.36	28.98	101	335	P	H
802.11ac													H
VHT40													H
CH 159		5649.4	55.43	-12.77	68.2	39.73	31.7	13.04	29.04	113	92	P	V
5795MHz		5700	63.37	-41.83	105.2	47.48	31.8	13.12	29.03	113	92	P	V
		5719.8	67.82	-42.92	110.74	51.82	31.88	13.15	29.03	113	92	P	V
		5724	69.81	-50.11	119.92	53.78	31.9	13.16	29.03	113	92	P	V
	*	5795	116.02	-	-	99.67	32.09	13.27	29.01	113	92	P	V
	*	5795	108.43	-	-	92.08	32.09	13.27	29.01	113	92	A	V
		5851.8	73.31	-44.79	118.1	56.9	32.1	13.31	29	113	92	P	V
		5856.4	72.51	-37.9	110.41	56.08	32.11	13.31	28.99	113	92	P	V
		5876.2	64.97	-39.34	104.31	48.48	32.15	13.33	28.99	113	92	P	V
		5925.8	56.52	-11.68	68.2	39.84	32.3	13.36	28.98	113	92	P	V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.

Band 4 5725~5850MHz

WIFI 802.11ac VHT40 (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		11510	49.87	-24.13	74	50.01	40.07	20.7	60.91	100	0	P	H
		17265	51.47	-16.73	68.2	42.76	40.96	26.53	58.78	100	0	P	H
802.11ac													H
VHT40													H
CH 151		11510	49.79	-24.21	74	49.93	40.07	20.7	60.91	100	0	P	V
5755MHz		17265	51.2	-17	68.2	42.49	40.96	26.53	58.78	100	0	P	V
													V
													V
		11590	49.78	-24.22	74	50.18	39.83	20.78	61.01	100	0	P	H
		17385	53.21	-14.99	68.2	43.59	41.52	26.74	58.64	100	0	P	H
802.11ac													H
VHT40													H
CH 159		11590	49.87	-24.13	74	50.27	39.83	20.78	61.01	100	0	P	V
5795MHz		17385	52.45	-15.75	68.2	42.83	41.52	26.74	58.64	100	0	P	V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.

Band 4 5725~5850MHz

WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5637.6	61.98	-6.22	68.2	46.31	31.7	13.02	29.05	100	334	P	H
		5700	78.95	-26.25	105.2	63.06	31.8	13.12	29.03	100	334	P	H
		5720	83.95	-26.85	110.8	67.95	31.88	13.15	29.03	100	334	P	H
		5720	83.95	-26.85	110.8	67.95	31.88	13.15	29.03	100	334	P	H
	*	5775	110.77	-	-	94.49	32.05	13.24	29.01	100	334	P	H
	*	5775	102.85	-	-	86.57	32.05	13.24	29.01	100	334	A	H
		5853.6	79.93	-34.06	113.99	63.51	32.11	13.31	29	100	334	P	H
		5858.6	80.62	-29.17	109.79	64.17	32.12	13.32	28.99	100	334	P	H
		5876	72.76	-31.7	104.46	56.27	32.15	13.33	28.99	100	334	P	H
		5930.4	57.63	-10.57	68.2	40.93	32.32	13.36	28.98	100	334	P	H
802.11ac													H
VHT80													H
CH 155		5648.4	66.98	-1.22	68.2	51.28	31.7	13.04	29.04	101	92	P	V
5775MHz		5692.8	81.33	-18.56	99.89	65.46	31.79	13.11	29.03	101	92	P	V
		5718.6	84.24	-26.17	110.41	68.25	31.87	13.15	29.03	101	92	P	V
		5723	84.19	-33.45	117.64	68.17	31.89	13.16	29.03	101	92	P	V
	*	5775	111.75	-	-	95.47	32.05	13.24	29.01	101	92	P	V
	*	5775	104.08	-	-	87.8	32.05	13.24	29.01	101	92	A	V
		5852.4	82.67	-34.06	116.73	66.26	32.1	13.31	29	101	92	P	V
		5856.2	78.01	-32.45	110.46	61.58	32.11	13.31	28.99	101	92	P	V
		5875	71.4	-33.8	105.2	54.92	32.15	13.32	28.99	101	92	P	V
		5929.4	60.95	-7.25	68.2	44.25	32.32	13.36	28.98	101	92	P	V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.

Emission above 18GHz

5GHz WIFI 802.11ac VHT80 (SHF)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		11554	49.99	-24.01	74	50.27	39.94	20.74	60.96	100	0	P	H
		17325	53.02	-15.18	68.2	43.87	41.22	26.64	58.71	100	0	P	H
802.11ac													H
VHT80													H
CH 155		11554	49.97	-24.03	74	50.25	39.94	20.74	60.96	100	0	P	V
5775MHz		17325	53.23	-14.97	68.2	44.08	41.22	26.64	58.71	100	0	P	V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.

Emission below 1GHz

5GHz WIFI 802.11ac VHT80 (LF)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		147.37	33.29	-10.21	43.5	46.41	17.02	2.14	32.28	100	0	P	H
		258.92	23.7	-22.3	46	33.3	19.92	2.82	32.34	-	-	P	H
		442.25	24.18	-21.82	46	29.76	22.99	3.58	32.15	-	-	P	H
		632.37	28.03	-17.97	46	29.45	26.26	4.31	31.99	-	-	P	H
		729.37	32.83	-13.17	46	32.86	27.54	4.64	32.21	-	-	P	H
		848.68	32	-14	46	30.05	29.08	5.02	32.15	-	-	P	H
													H
													H
													H
													H
5GHz													H
802.11ac													H
VHT80		52.31	33.75	-6.25	40	51.82	13.13	1.22	32.42	100	0	P	V
LF		146.4	27.41	-16.09	43.5	40.5	17.07	2.12	32.28	-	-	P	V
		382.11	22.13	-23.87	46	29.86	21.16	3.34	32.23	-	-	P	V
		467.47	25.75	-20.25	46	30.76	23.46	3.66	32.13	-	-	P	V
		633.34	28.75	-17.25	46	30.15	26.29	4.31	32	-	-	P	V
		729.37	31.41	-14.59	46	31.44	27.54	4.64	32.21	-	-	P	V
													V
													V
													V
													V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against limit line.

<TXBF Mode>

Band 4 - 5725~5850MHz

WIFI 802.11ac VHT20 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5631.2	55.23	-12.97	68.2	39.57	31.7	13.01	29.05	102	97	P	H
		5700	68.22	-36.98	105.2	52.33	31.8	13.12	29.03	102	97	P	H
		5719.8	83.87	-26.87	110.74	67.87	31.88	13.15	29.03	102	97	P	H
		5722.2	90.29	-25.53	115.82	74.27	31.89	13.16	29.03	102	97	P	H
	*	5745	117.66	-	-	101.51	31.98	13.19	29.02	102	97	P	H
	*	5745	109.5	-	-	93.35	31.98	13.19	29.02	102	97	A	H
802.11ac													H
VHT20													H
CH 149		5601.2	54.1	-14.1	68.2	38.5	31.7	12.96	29.06	100	96	P	V
5745MHz		5700	64.47	-40.73	105.2	48.58	31.8	13.12	29.03	100	96	P	V
		5720	79.1	-31.7	110.8	63.1	31.88	13.15	29.03	100	96	P	V
		5724.2	87.19	-33.19	120.38	71.16	31.9	13.16	29.03	100	96	P	V
	*	5745	113.32	-	-	97.17	31.98	13.19	29.02	100	96	P	V
	*	5745	105.32	-	-	89.17	31.98	13.19	29.02	100	96	A	V
													V
													V

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5612.4	54.24	-13.96	68.2	38.61	31.7	12.98	29.05	100	91	P	H
		5700	55.71	-49.49	105.2	39.82	31.8	13.12	29.03	100	91	P	H
		5706.2	57.13	-49.81	106.94	41.21	31.82	13.13	29.03	100	91	P	H
		5722.6	59.6	-57.13	116.73	43.58	31.89	13.16	29.03	100	91	P	H
	*	5785	117.07	-	-	100.75	32.07	13.26	29.01	100	91	P	H
	*	5785	109.25	-	-	92.93	32.07	13.26	29.01	100	91	A	H
		5852.4	57.78	-58.95	116.73	41.37	32.1	13.31	29	100	91	P	H
		5857.4	57.13	-53	110.13	40.7	32.11	13.31	28.99	100	91	P	H
		5903.6	56.24	-27.76	84	39.67	32.21	13.34	28.98	100	91	P	H
		5943.4	55.28	-12.92	68.2	38.51	32.37	13.37	28.97	100	91	P	H
802.11ac													H
VHT20													H
CH 157		5639.2	53.78	-14.42	68.2	38.11	31.7	13.02	29.05	100	89	P	V
5785MHz		5691	56.13	-42.43	98.56	40.27	31.78	13.11	29.03	100	89	P	V
		5719.6	55.47	-55.22	110.69	39.47	31.88	13.15	29.03	100	89	P	V
		5724.6	57.96	-63.33	121.29	41.93	31.9	13.16	29.03	100	89	P	V
	*	5785	115.07	-	-	98.75	32.07	13.26	29.01	100	89	P	V
	*	5785	105.04	-	-	88.72	32.07	13.26	29.01	100	89	A	V
		5850.4	56.83	-64.46	121.29	40.42	32.1	13.31	29	100	89	P	V
		5857.2	56.24	-53.94	110.18	39.81	32.11	13.31	28.99	100	89	P	V
		5911.4	54.71	-23.52	78.23	38.09	32.25	13.35	28.98	100	89	P	V
		5940.8	55	-13.2	68.2	38.25	32.36	13.36	28.97	100	89	P	V
													V
													V

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
	*	5825	116.26	-	-	99.86	32.1	13.3	29	100	93	P	H
	*	5825	107.9	-	-	91.5	32.1	13.3	29	100	93	A	H
		5850	77.94	-44.26	122.2	61.53	32.1	13.31	29	100	93	P	H
		5855.4	71.75	-38.94	110.69	55.32	32.11	13.31	28.99	100	93	P	H
		5876.2	61.85	-42.46	104.31	45.36	32.15	13.33	28.99	100	93	P	H
		5947.2	56.18	-12.02	68.2	39.39	32.39	13.37	28.97	100	93	P	H
802.11ac													H
VHT20													H
CH 165	*	5825	113.24	-	-	96.84	32.1	13.3	29	100	95	P	V
5825MHz	*	5825	105.42	-	-	89.02	32.1	13.3	29	100	95	A	V
		5850.6	76.73	-44.1	120.83	60.32	32.1	13.31	29	100	95	P	V
		5856.4	71.55	-38.86	110.41	55.12	32.11	13.31	28.99	100	95	P	V
		5880	61.32	-40.17	101.49	44.82	32.16	13.33	28.99	100	95	P	V
		5933.8	55.2	-13	68.2	38.48	32.34	13.36	28.98	100	95	P	V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.

Band 4 5725~5850MHz

WIFI 802.11ac VHT20 (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		11490	49.8	-24.2	74	49.94	40.1	20.66	60.9	100	0	P	H
		17235	53.15	-15.05	68.2	44.65	40.84	26.48	58.82	100	0	P	H
802.11ac													H
VHT20													H
CH 149		11490	49.86	-24.14	74	50	40.1	20.66	60.9	100	0	P	V
5745MHz		17235	53.76	-14.44	68.2	45.26	40.84	26.48	58.82	100	0	P	V
													V
													V
		11570	49.81	-24.19	74	50.14	39.89	20.76	60.98	100	0	P	H
		17355	52.23	-15.97	68.2	42.83	41.38	26.69	58.67	100	0	P	H
802.11ac													H
VHT20													H
CH 157		11570	49.92	-24.08	74	50.25	39.89	20.76	60.98	100	0	P	V
5785MHz		17355	52.22	-15.98	68.2	42.82	41.38	26.69	58.67	100	0	P	V
													V
													V
		11653	49.91	-24.09	74	50.55	39.59	20.85	61.08	400	0	P	H
		17475	53.13	-15.07	68.2	42.8	41.97	26.89	58.53	100	0	P	H
802.11ac													H
VHT20													H
CH 165		11650	49.62	-24.38	74	50.25	39.6	20.85	61.08	100	0	P	V
5825MHz		17475	53.26	-14.94	68.2	42.93	41.97	26.89	58.53	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 4 5725~5850MHz

WIFI 802.11ac VHT40 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5643.6	64.74	-3.46	68.2	49.06	31.7	13.03	29.05	100	79	P	H
		5699.2	79	-25.61	104.61	63.11	31.8	13.12	29.03	100	79	P	H
		5718.6	91.34	-19.07	110.41	75.35	31.87	13.15	29.03	100	79	P	H
		5722.8	92.44	-24.74	117.18	76.42	31.89	13.16	29.03	100	79	P	H
	*	5755	116.88	-	-	100.68	32.01	13.21	29.02	100	79	P	H
	*	5755	110.04	-	-	93.84	32.01	13.21	29.02	100	79	A	H
		5852.4	68.56	-48.17	116.73	52.15	32.1	13.31	29	100	79	P	H
		5862.6	68.59	-40.08	108.67	52.13	32.13	13.32	28.99	100	79	P	H
		5887.8	63.03	-32.67	95.7	46.51	32.18	13.33	28.99	100	79	P	H
		5934.4	55.91	-12.29	68.2	39.19	32.34	13.36	28.98	100	79	P	H
802.11ac													H
VHT40													H
CH 151		5639	60.36	-7.84	68.2	44.69	31.7	13.02	29.05	100	97	P	V
5755MHz		5699	76.4	-28.06	104.46	60.51	31.8	13.12	29.03	100	97	P	V
		5719	88.66	-21.86	110.52	72.66	31.88	13.15	29.03	100	97	P	V
		5723	90.62	-27.02	117.64	74.6	31.89	13.16	29.03	100	97	P	V
	*	5755	111.14	-	-	94.94	32.01	13.21	29.02	100	97	P	V
	*	5755	104.85	-	-	88.65	32.01	13.21	29.02	100	97	A	V
		5852	61.06	-56.58	117.64	44.65	32.1	13.31	29	100	97	P	V
		5856.6	60.97	-49.38	110.35	44.54	32.11	13.31	28.99	100	97	P	V
		5878	57.87	-45.1	102.97	41.37	32.16	13.33	28.99	100	97	P	V
		5927.4	55.7	-12.5	68.2	39.01	32.31	13.36	28.98	100	97	P	V
													V
													V

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5648.4	55.89	-12.31	68.2	40.19	31.7	13.04	29.04	100	95	P	H
		5698.6	66.01	-38.16	104.17	50.12	31.8	13.12	29.03	100	95	P	H
		5717.8	69.09	-41.09	110.18	53.1	31.87	13.15	29.03	100	95	P	H
		5721.6	74.2	-40.25	114.45	58.19	31.89	13.15	29.03	100	95	P	H
	*	5795	114.58	-	-	98.23	32.09	13.27	29.01	100	95	P	H
	*	5795	109.51	-	-	93.16	32.09	13.27	29.01	100	95	A	H
		5851	79.31	-40.61	119.92	62.9	32.1	13.31	29	100	95	P	H
		5856	73.87	-36.65	110.52	57.44	32.11	13.31	28.99	100	95	P	H
		5886.2	66.36	-30.52	96.88	49.85	32.17	13.33	28.99	100	95	P	H
		5931.2	57.78	-10.42	68.2	41.08	32.32	13.36	28.98	100	95	P	H
802.11ac													H
VHT40													H
CH 159		5647.6	55.09	-13.11	68.2	39.39	31.7	13.04	29.04	100	97	P	V
5795MHz		5698.8	62.64	-41.68	104.32	46.75	31.8	13.12	29.03	100	97	P	V
		5719.2	66.28	-44.3	110.58	50.28	31.88	13.15	29.03	100	97	P	V
		5723.2	68.85	-49.25	118.1	52.83	31.89	13.16	29.03	100	97	P	V
	*	5795	114.04	-	-	97.69	32.09	13.27	29.01	100	97	P	V
	*	5795	105.19	-	-	88.84	32.09	13.27	29.01	100	97	A	V
		5852.6	71.21	-45.06	116.27	54.79	32.11	13.31	29	100	97	P	V
		5857.4	71.81	-38.32	110.13	55.38	32.11	13.31	28.99	100	97	P	V
		5875.2	63.67	-41.38	105.05	47.18	32.15	13.33	28.99	100	97	P	V
		5943.8	55.51	-12.69	68.2	38.73	32.38	13.37	28.97	100	97	P	V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.

Band 4 5725~5850MHz

WIFI 802.11ac VHT40 (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		11510	49.87	-24.13	74	50.01	40.07	20.7	60.91	100	0	P	H
		17265	52.3	-15.9	68.2	43.59	40.96	26.53	58.78	100	0	P	H
802.11ac													H
VHT40													H
CH 151		11510	49.08	-24.92	74	49.22	40.07	20.7	60.91	100	0	P	V
5755MHz		17265	51.81	-16.39	68.2	43.1	40.96	26.53	58.78	100	0	P	V
													V
													V
		11587	49.92	-24.08	74	50.3	39.84	20.78	61	400	0	P	H
		17385	53.93	-14.27	68.2	44.31	41.52	26.74	58.64	100	0	P	H
802.11ac													H
VHT40													H
CH 159		11587	49.96	-24.04	74	50.34	39.84	20.78	61	100	0	P	V
5795MHz		17385	53.4	-14.8	68.2	43.78	41.52	26.74	58.64	100	0	P	V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.

Band 4 5725~5850MHz

WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5645.8	66.86	-1.34	68.2	51.18	31.7	13.03	29.05	100	95	P	H
		5692.6	80.76	-18.98	99.74	64.89	31.79	13.11	29.03	100	95	P	H
		5718	83.41	-26.83	110.24	67.42	31.87	13.15	29.03	100	95	P	H
		5720.4	87.36	-24.35	111.71	71.36	31.88	13.15	29.03	100	95	P	H
	*	5775	110.79	-	-	94.51	32.05	13.24	29.01	100	95	P	H
	*	5775	97.54	-	-	81.26	32.05	13.24	29.01	100	95	A	H
		5850.8	80.6	-39.78	120.38	64.19	32.1	13.31	29	100	95	P	H
		5866	79.54	-28.18	107.72	63.08	32.13	13.32	28.99	100	95	P	H
		5877	73.46	-30.25	103.71	56.97	32.15	13.33	28.99	100	95	P	H
		5925	61.13	-7.07	68.2	44.46	32.3	13.35	28.98	100	95	P	H
802.11ac													H
VHT80													H
CH 155		5626.6	63.03	-5.17	68.2	47.38	31.7	13	29.05	285	114	P	V
5775MHz		5686.4	78.19	-16.98	95.17	62.36	31.77	13.1	29.04	285	114	P	V
		5717.6	82.75	-27.38	110.13	66.76	31.87	13.15	29.03	285	114	P	V
		5723	82.72	-34.92	117.64	66.7	31.89	13.16	29.03	285	114	P	V
	*	5775	104.93	-	-	88.65	32.05	13.24	29.01	285	114	P	V
	*	5775	96.48	-	-	80.2	32.05	13.24	29.01	285	114	A	V
		5854.6	78.96	-32.75	111.71	62.53	32.11	13.31	28.99	285	114	P	V
		5856.6	78.09	-32.26	110.35	61.66	32.11	13.31	28.99	285	114	P	V
		5876.2	72.89	-31.42	104.31	56.4	32.15	13.33	28.99	285	114	P	V
		5929.8	59.56	-8.64	68.2	42.86	32.32	13.36	28.98	285	114	P	V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.

Emission above 18GHz

5GHz WIFI 802.11ac VHT80 (SHF)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		11550	49.75	-24.25	74	50.02	39.95	20.74	60.96	100	0	P	H
		17325	52.09	-16.11	68.2	42.94	41.22	26.64	58.71	100	0	P	H
802.11ac													H
VHT80													H
CH 155		11550	49.93	-24.07	74	50.2	39.95	20.74	60.96	100	0	P	V
5775MHz		17325	51.98	-16.22	68.2	42.83	41.22	26.64	58.71	100	0	P	V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.

Emission below 1GHz

5GHz WIFI 802.11ac VHT80 (LF)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		64.92	32.03	-7.97	40	51.38	11.68	1.35	32.38	-	-	P	H
		158.04	31.69	-11.81	43.5	45.21	16.53	2.24	32.29	-	-	P	H
		329.73	27.41	-18.59	46	36.91	19.69	3.12	32.31	-	-	P	H
		556.71	28.49	-17.51	46	30.45	25.99	4.04	31.99	-	-	P	H
		695.42	29.49	-16.51	46	30.71	26.39	4.53	32.14	-	-	P	H
		786.6	34.64	-11.36	46	34.08	28.07	4.83	32.34	-	-	P	H
													H
													H
													H
													H
5GHz													H
802.11ac													H
VHT80		70.74	33.21	-6.79	40	51.86	12.28	1.43	32.36	100	86	Q	V
LF		150.28	33.55	-9.95	43.5	46.65	17.03	2.16	32.29	-	-	P	V
		212.36	31.73	-11.77	43.5	46.34	15.19	2.52	32.32	-	-	P	V
		461.65	27.51	-18.49	46	32.61	23.39	3.64	32.13	-	-	P	V
		746.83	36.84	-9.16	46	36.29	28.1	4.7	32.25	-	-	P	V
		872.93	31.99	-14.01	46	29.92	29.03	5.08	32.04	-	-	P	V
													V
													V
													V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against limit line.												

Note symbol

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

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

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

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

For Peak Limit @ 2390MHz:

1. Level(dBμV/m)

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

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

= 55.45 (dBμV/m)

2. Over Limit(dB)

= Level(dBμV/m) – Limit Line(dBμV/m)

= 55.45(dBμV/m) – 74(dBμV/m)

= -18.55(dB)

For Average Limit @ 2390MHz:

1. Level(dBμV/m)

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

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

= 43.54 (dBμV/m)

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

= 43.54(dBμV/m) – 54(dBμV/m)

= -10.46(dB)

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

Appendix C. Radiated Spurious Emission Plots

Test Engineer :	Jacky Hung, Andy Yang and CR Liro	**Temperature :**	20~25°C
		Relative Humidity :	50~60%

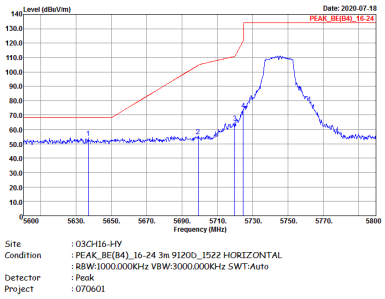
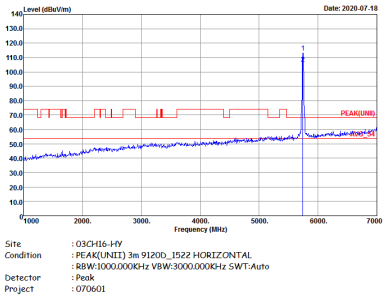
Note symbol

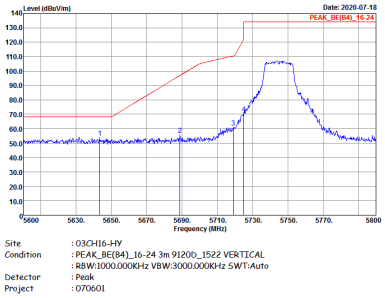
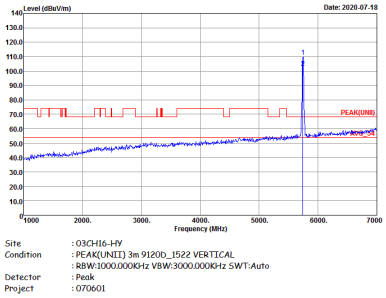
-L	**Low channel location**
-R	**High channel location**

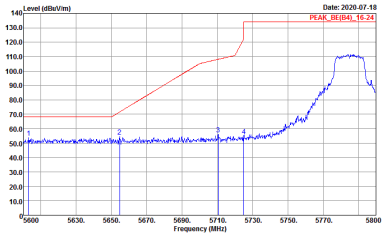
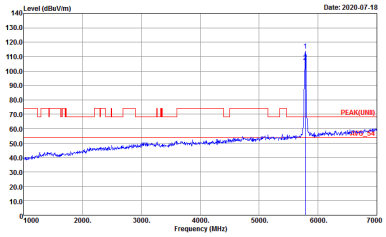
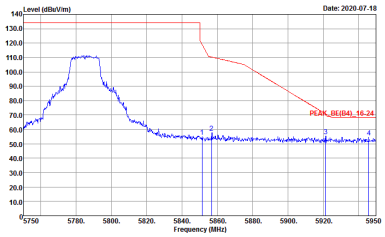
<CDD Mode>

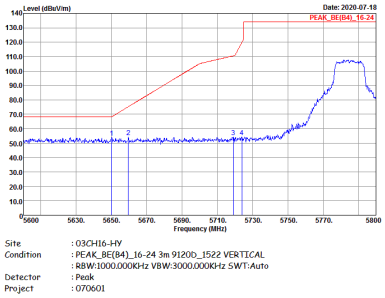
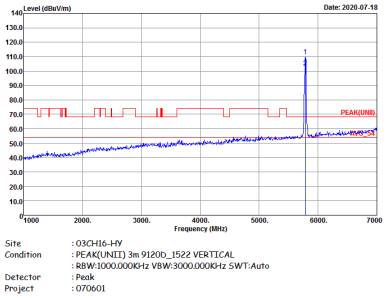
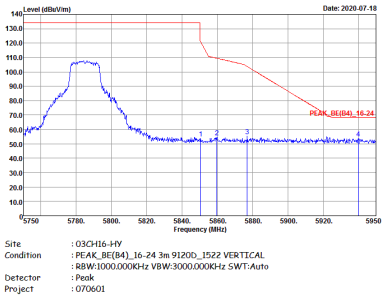
Band 4 - 5725~5850MHz

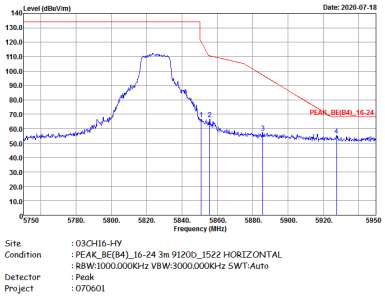
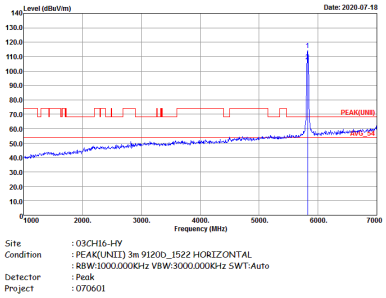
WIFI 802.11a (Band Edge @ 3m)

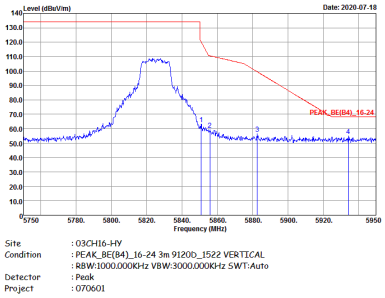
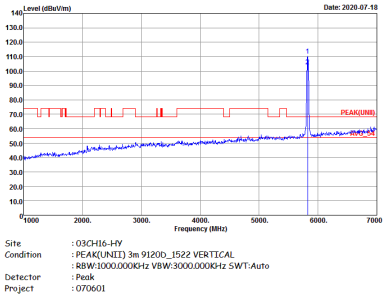
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH149 5745MHz	
1	Horizontal	Fundamental
Peak		

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH149 5745MHz	
1	Vertical	Fundamental
Peak		

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH157 5785MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE(B4)_16-24 3m 9120D_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 070601	 Site : 03CH16-HY Condition : PEAK(UNII) 3m 9120D_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 070601
Peak	 Site : 03CH16-HY Condition : PEAK_BE(B4)_16-24 3m 9120D_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 070601	Left blank

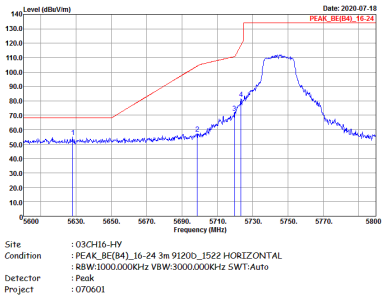
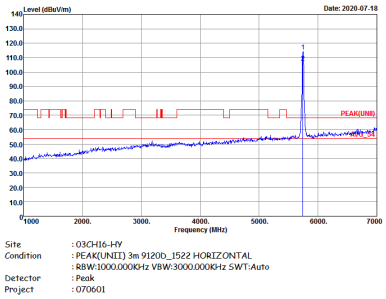
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH157 5785MHz	
1	Vertical	Fundamental
Peak		
Peak		Left blank

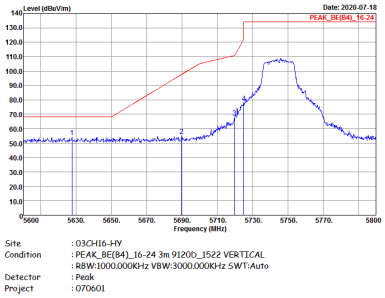
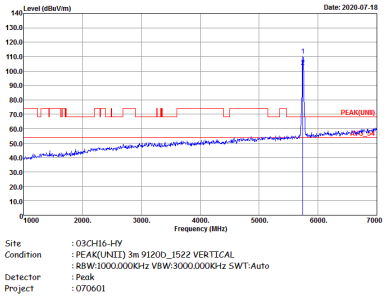
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH165 5825MHz	
1	Horizontal	Fundamental
Peak		

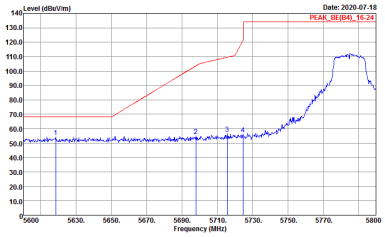
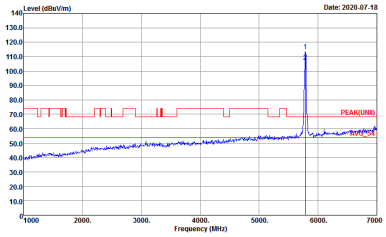
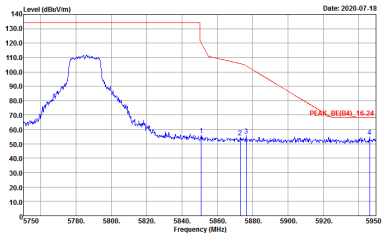
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH165 5825MHz	
1	Vertical	Fundamental
Peak		

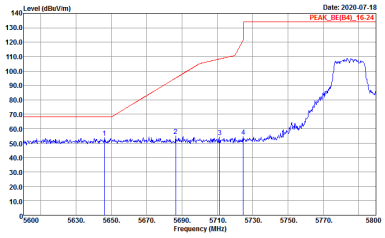
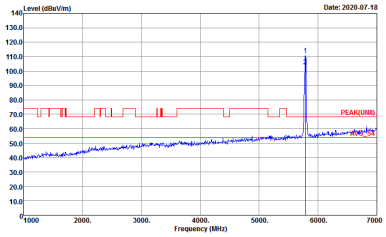
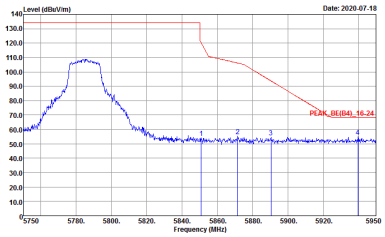
Band 4 5725~5850MHz

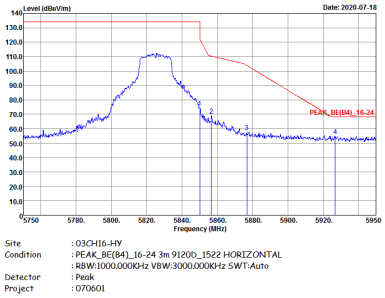
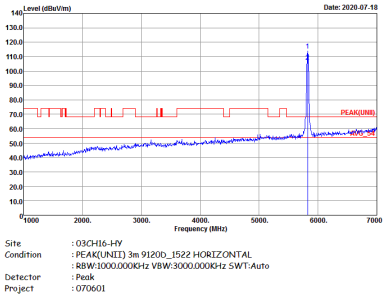
WIFI 802.11ac VHT20 (Band Edge @ 3m)

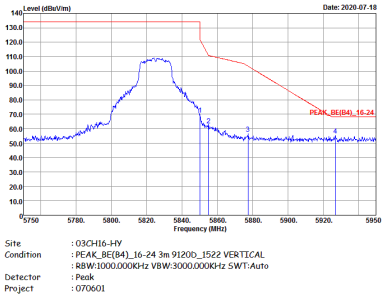
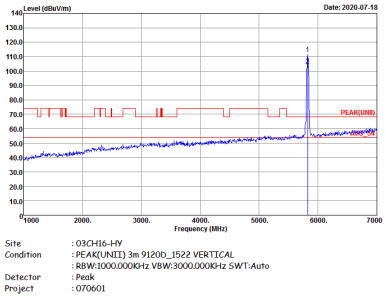
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH149 5745MHz	
1	Horizontal	Fundamental
Peak		

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH149 5745MHz	
1	Vertical	Fundamental
Peak Avg.		

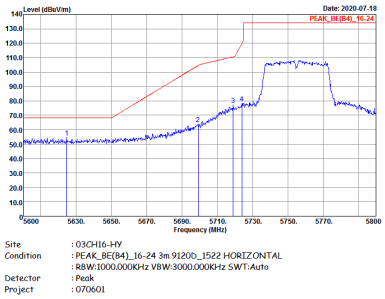
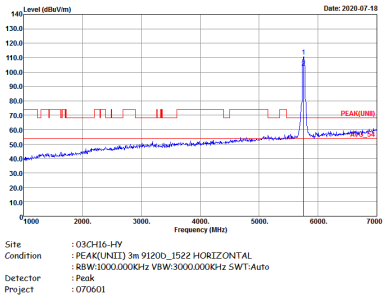
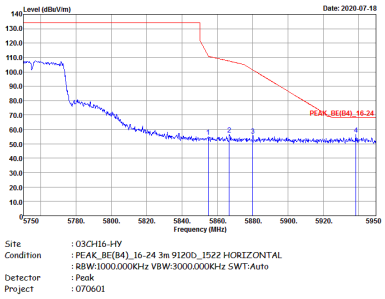
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH157 5785MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE(B4)_16-24 3m 9120D_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 070601	 Site : 03CH16-HY Condition : PEAK(UNII) 3m 9120D_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 070601
Peak	 Site : 03CH16-HY Condition : PEAK_BE(B4)_16-24 3m 9120D_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 070601	Left blank

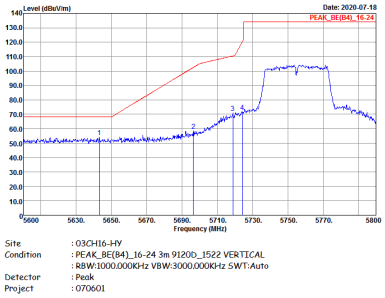
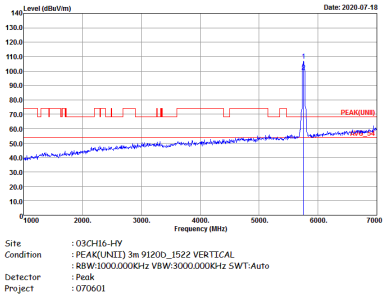
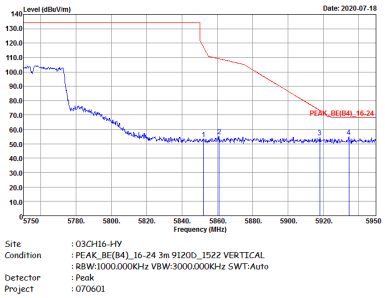
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH157 5785MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE(B4)_16-24 3m 9120D_1522 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 070601	 Site : 03CH16-HY Condition : PEAK(UNII) 3m 9120D_1522 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 070601
Peak	 Site : 03CH16-HY Condition : PEAK_BE(B4)_16-24 3m 9120D_1522 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 070601	Left blank

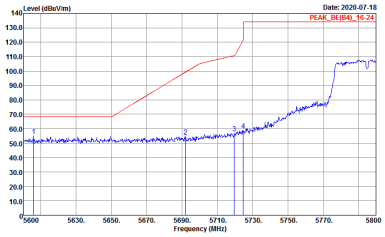
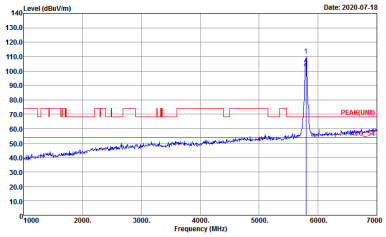
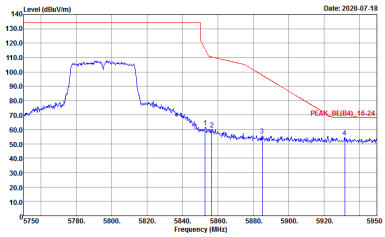
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH165 5825MHz	
1	Horizontal	Fundamental
Peak		

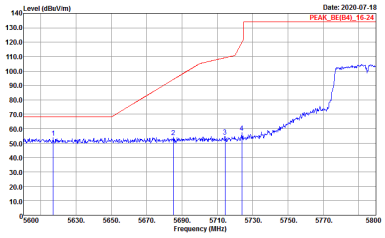
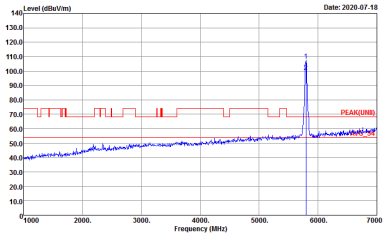
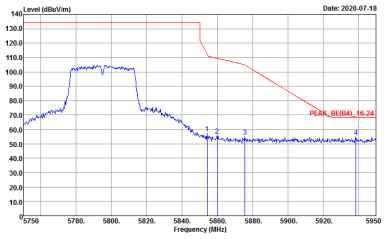
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH165 5825MHz	
1	Vertical	Fundamental
Peak Avg.		

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

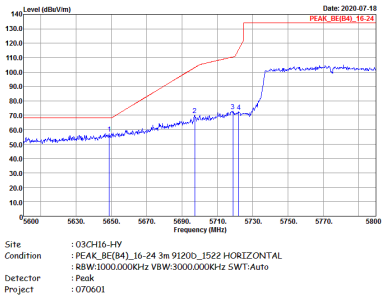
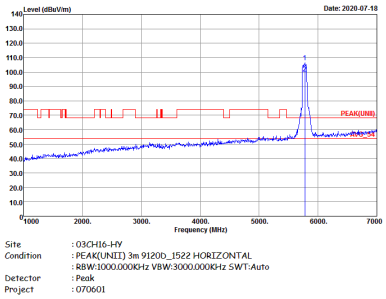
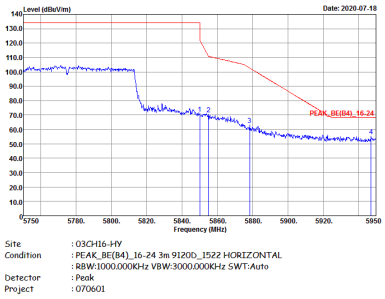
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH151 5755MHz	
1	Horizontal	Fundamental
Peak		
Peak		Left blank

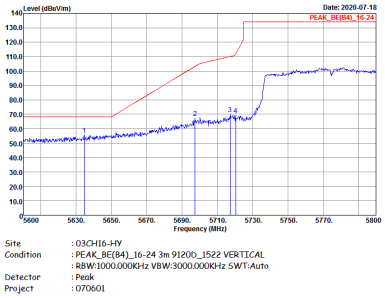
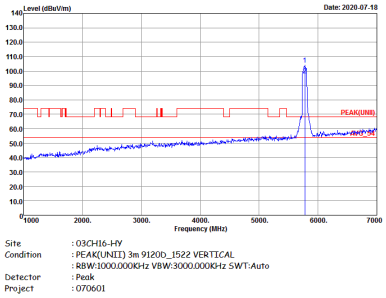
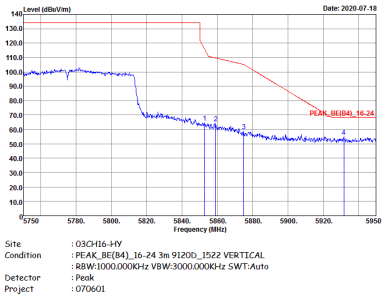
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH151 5755MHz	
1	Vertical	Fundamental
Peak		
Peak		Left blank

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH159 5795MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE(B4)_16-24 3m 9120D_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 070601	 Site : 03CH16-HY Condition : PEAK(UNII) 3m 9120D_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 070601
Peak	 Site : 03CH16-HY Condition : PEAK_BE(B4)_16-24 3m 9120D_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 070601	Left blank

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH159 5795MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE(B4)_16-24 3m 9120D_1522 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 070601	 Site : 03CH16-HY Condition : PEAK(UNII) 3m 9120D_1522 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 070601
Peak	 Site : 03CH16-HY Condition : PEAK_BE(B4)_16-24 3m 9120D_1522 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 070601	Left blank

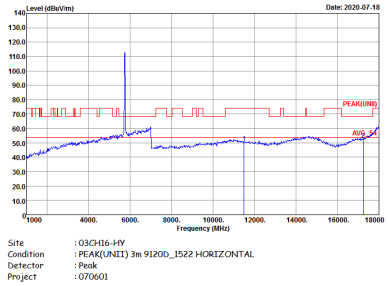
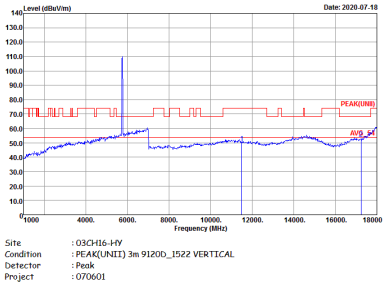
Band 4 5725~5850MHz
WIFI 802.11ac VHT80 (Band Edge @ 3m)

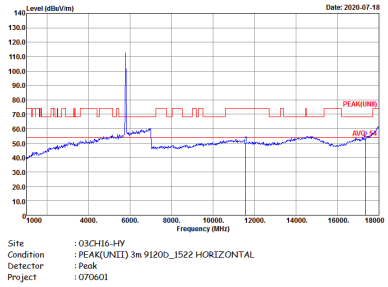
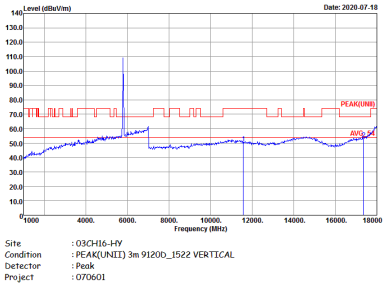
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH155 5775MHz	
1	Horizontal	Fundamental
Peak		
Peak		Left blank

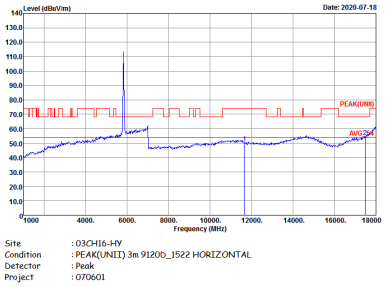
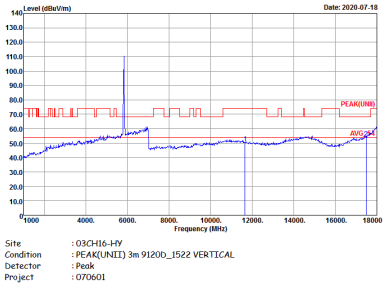
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH155 5775MHz	
1	Vertical	Fundamental
Peak		
Peak		Left blank

Band 4 - 5725~5850MHz

WIFI 802.11a (Harmonic @ 3m)

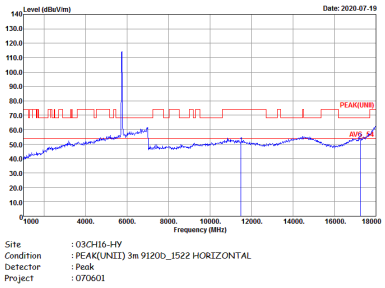
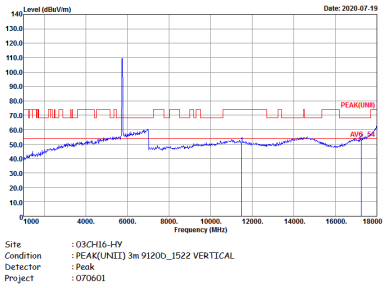
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH149 5745MHz	
1	Horizontal	Vertical
Peak Avg.		

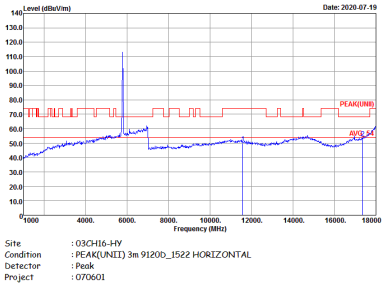
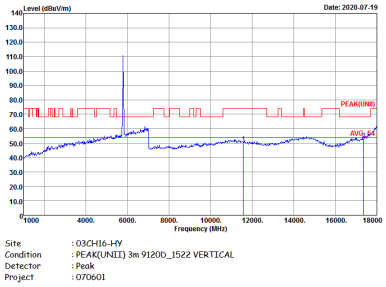
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH157 5785MHz	
1	Horizontal	Vertical
Peak Avg.		

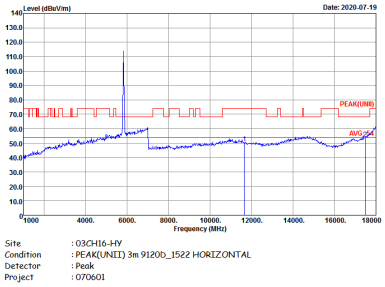
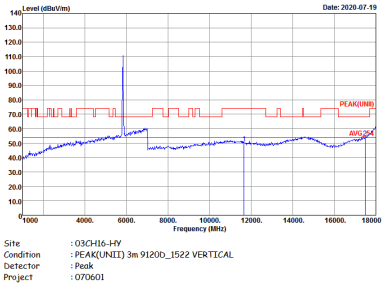
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH165 5825MHz	
1	Horizontal	Vertical
Peak Avg.		

Band 4 5725~5850MHz

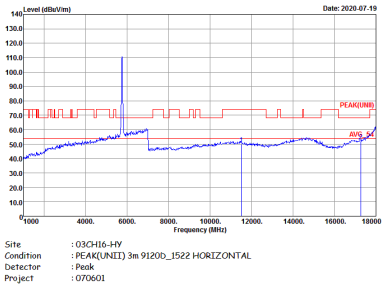
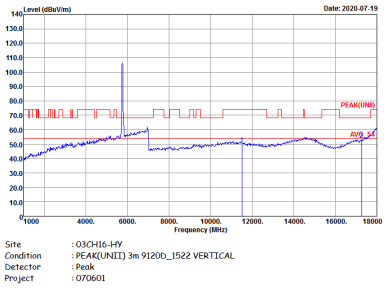
WIFI 802.11ac VHT20 (Harmonic @ 3m)

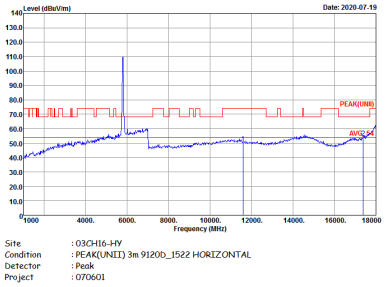
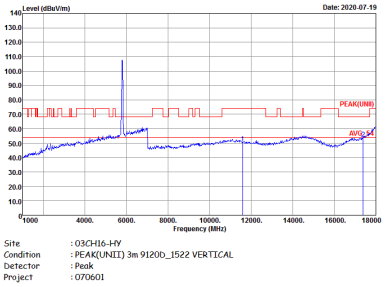
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ac VHT20 CH149 5745MHz	
1	Horizontal	Vertical
Peak Avg.		

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ac VHT20 CH157 5785MHz	
1	Horizontal	Vertical
Peak Avg.		

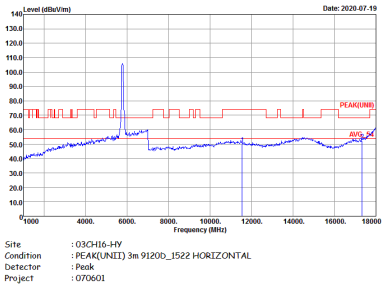
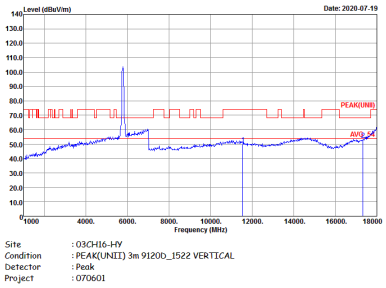
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ac VHT20 CH165 5825MHz	
1	Horizontal	Vertical
Peak Avg.		

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

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ac VHT40 CH151 5755MHz	
1	Horizontal	Vertical
Peak Avg.		

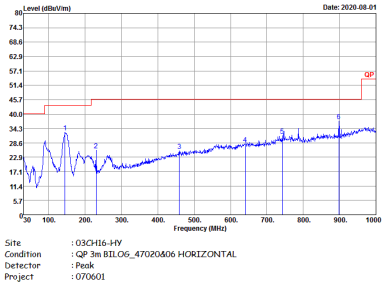
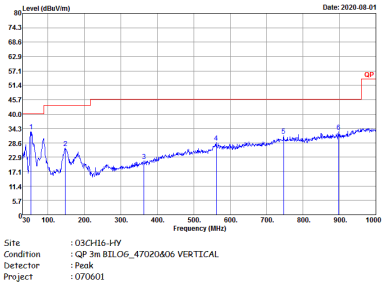
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ac VHT40 CH159 5795MHz	
1	Horizontal	Vertical
Peak Avg.		

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

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ac VHT80 CH155 5775MHz	
1	Horizontal	Vertical
Peak Avg.		

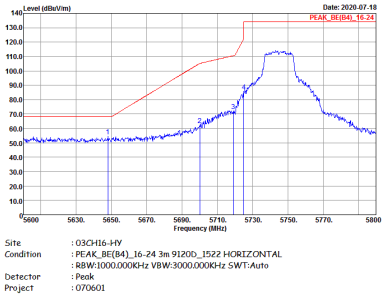
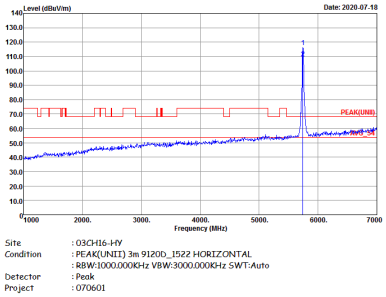
Emission below 1GHz

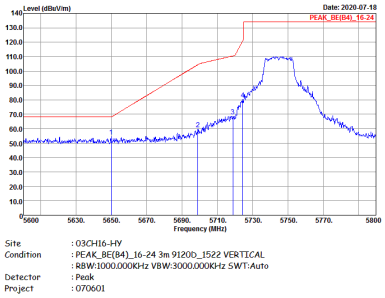
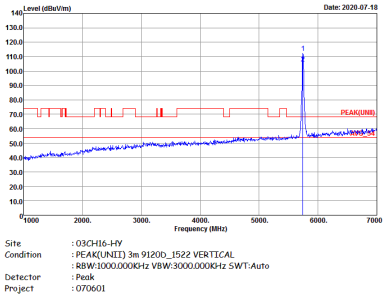
5GHz WIFI 802.11ac VHT80 (LF)

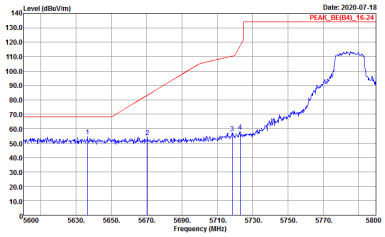
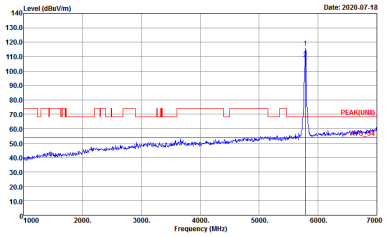
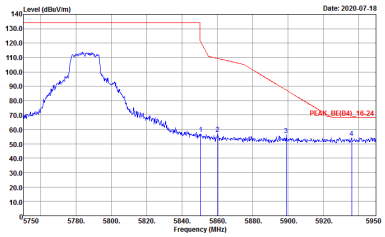
WIFI	5GHz WIFI	
ANT	802.11ac VHT80 LF	
1	Horizontal	Vertical
QP / Peak		

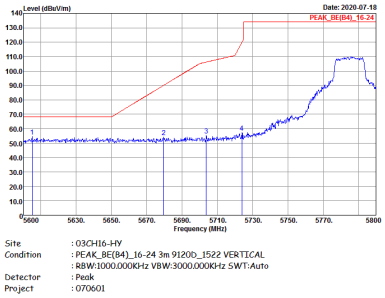
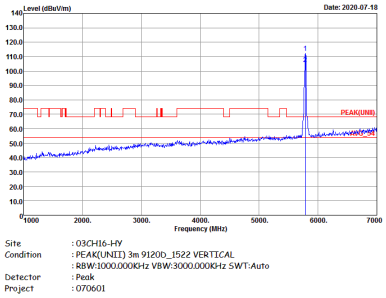
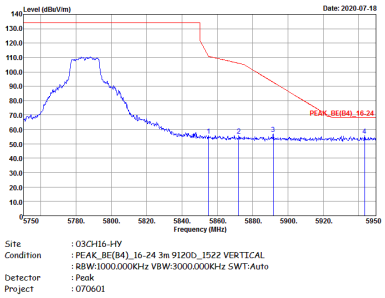
Band 4 - 5725~5850MHz

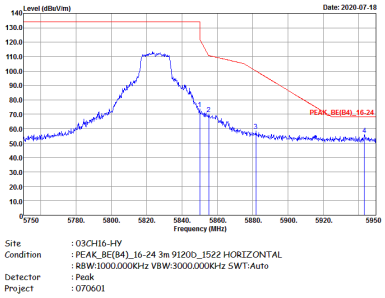
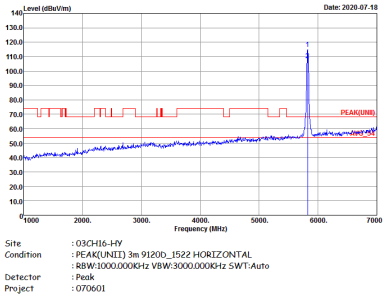
WIFI 802.11a (Band Edge @ 3m)

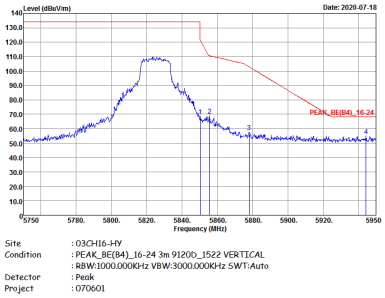
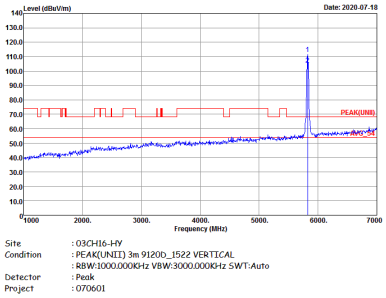
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH149 5745MHz	
2	Horizontal	Fundamental
Peak		

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH149 5745MHz	
2	Vertical	Fundamental
Peak		

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH157 5785MHz	
2	Horizontal	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE(B4)_16-24 3m 9120D_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 070601	 Site : 03CH16-HY Condition : PEAK(UNII) 3m 9120D_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 070601
Peak	 Site : 03CH16-HY Condition : PEAK_BE(B4)_16-24 3m 9120D_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 070601	Left blank

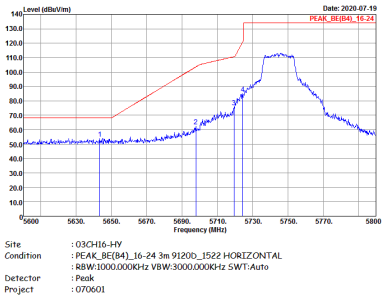
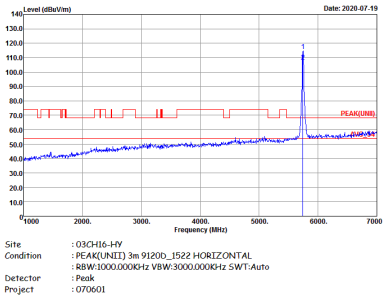
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH157 5785MHz	
2	Vertical	Fundamental
Peak		
Peak		Left blank

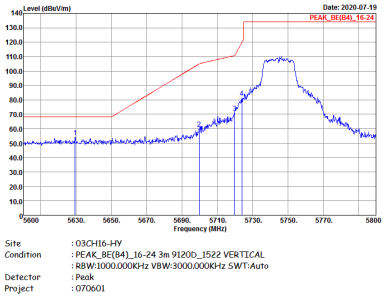
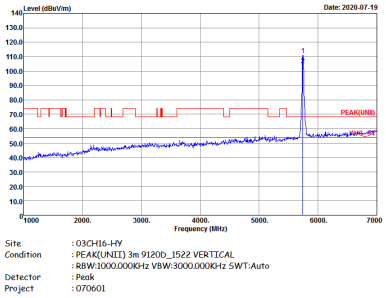
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH165 5825MHz	
2	Horizontal	Fundamental
Peak		

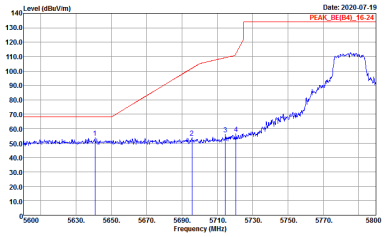
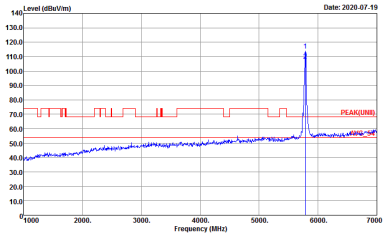
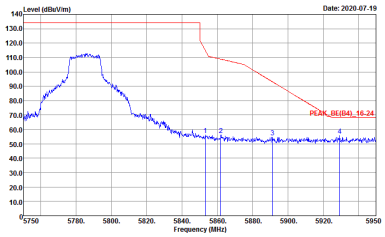
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH165 5825MHz	
2	Vertical	Fundamental
Peak		

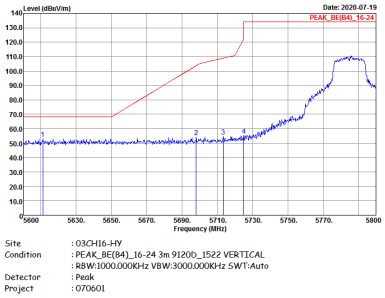
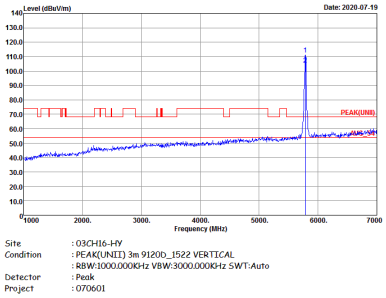
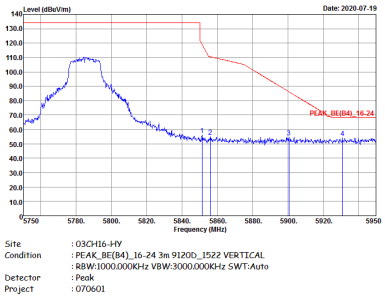
Band 4 5725~5850MHz

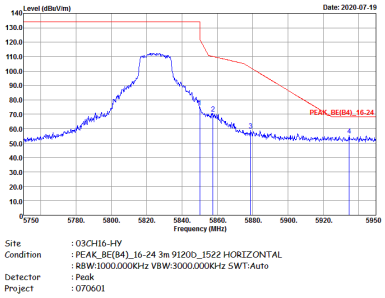
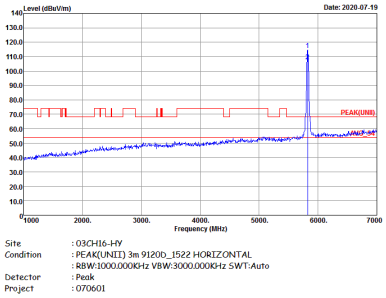
WIFI 802.11ac VHT20 (Band Edge @ 3m)

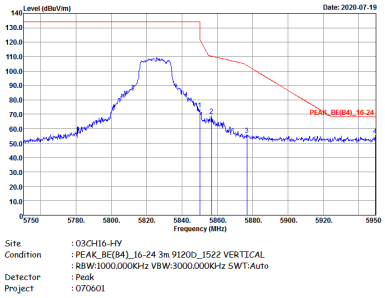
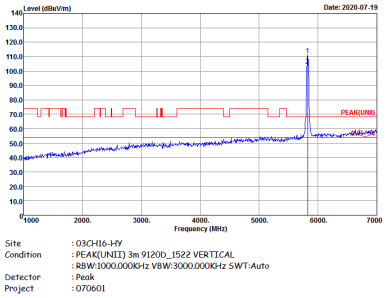
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH149 5745MHz	
2	Horizontal	Fundamental
Peak		

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH149 5745MHz	
2	Vertical	Fundamental
Peak Avg.		

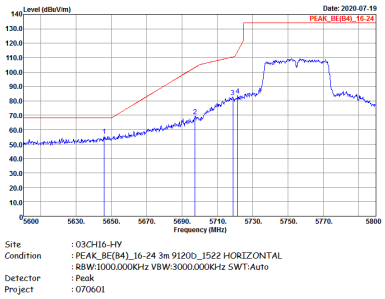
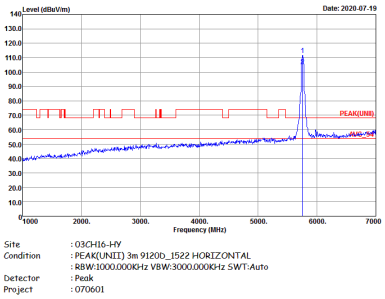
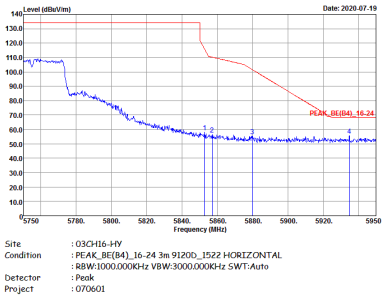
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH157 5785MHz	
2	Horizontal	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE(B4)_16-24 3m 9120D_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 070601	 Site : 03CH16-HY Condition : PEAK(UNII) 3m 9120D_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 070601
Peak	 Site : 03CH16-HY Condition : PEAK_BE(B4)_16-24 3m 9120D_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 070601	Left blank

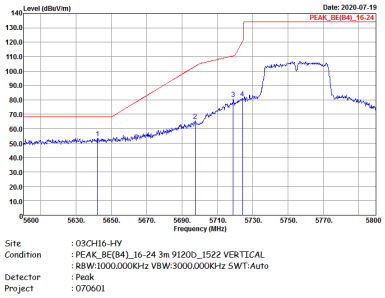
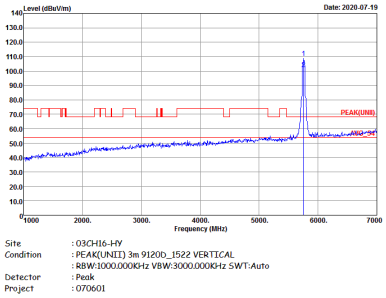
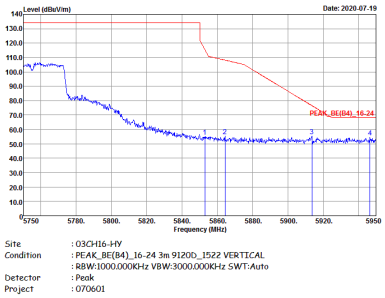
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH157 5785MHz	
2	Vertical	Fundamental
Peak		
Peak		Left blank

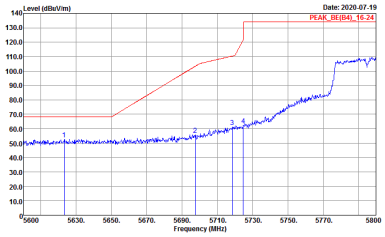
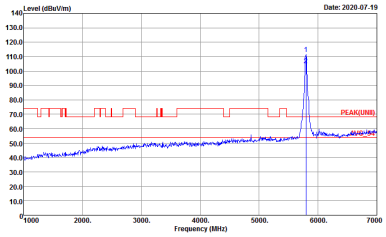
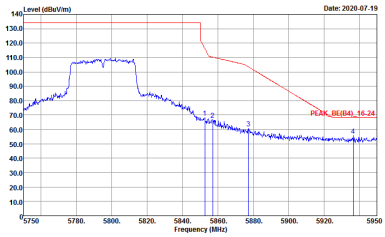
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH165 5825MHz	
2	Horizontal	Fundamental
Peak		

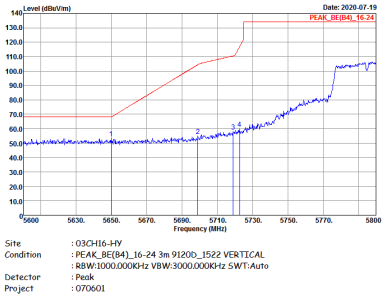
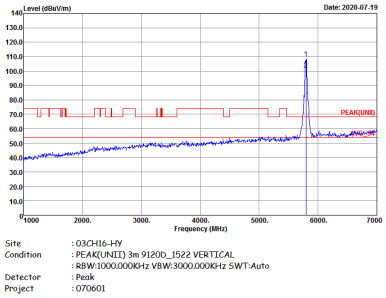
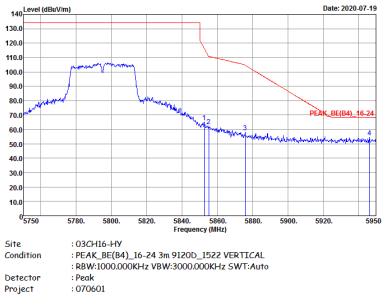
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH165 5825MHz	
2	Vertical	Fundamental
Peak Avg.		

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

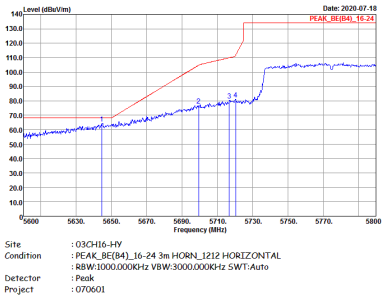
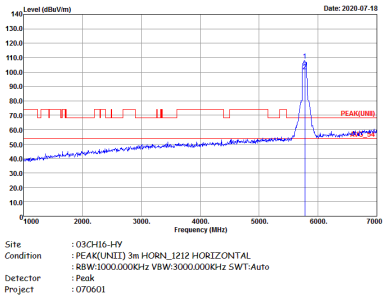
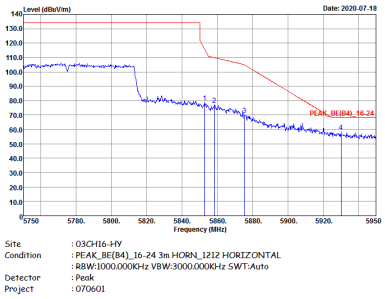
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH151 5755MHz	
2	Horizontal	Fundamental
Peak		
Peak		Left blank

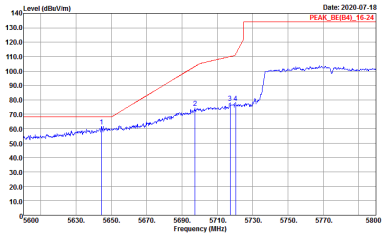
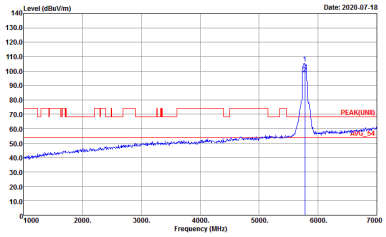
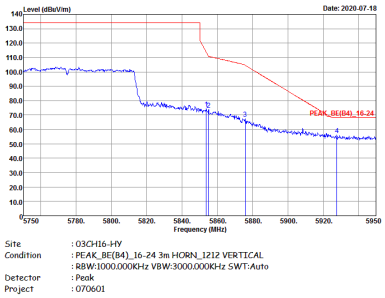
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH151 5755MHz	
2	Vertical	Fundamental
Peak		
Peak		Left blank

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH159 5795MHz	
2	Horizontal	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE(B4)_16-24 3m 9120D_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 070601	 Site : 03CH16-HY Condition : PEAK(UNII) 3m 9120D_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 070601
Peak	 Site : 03CH16-HY Condition : PEAK_BE(B4)_16-24 3m 9120D_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 070601	Left blank

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH159 5795MHz	
2	Vertical	Fundamental
Peak		
Peak		Left blank

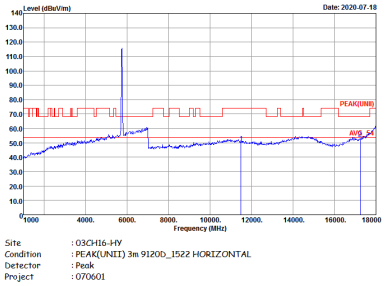
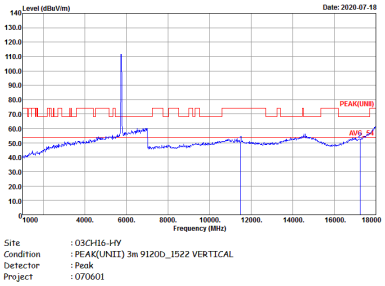
Band 4 5725~5850MHz
WIFI 802.11ac VHT80 (Band Edge @ 3m)

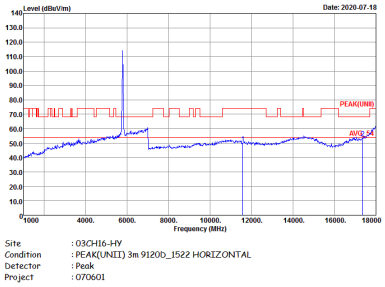
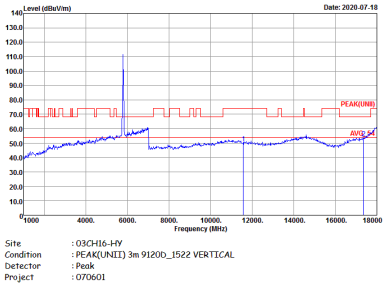
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH155 5775MHz	
2	Horizontal	Fundamental
Peak		
Peak		Left blank

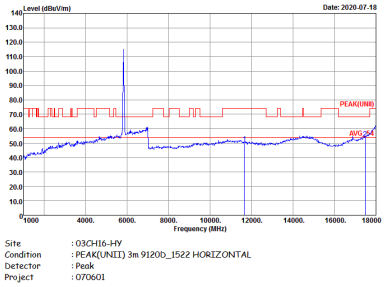
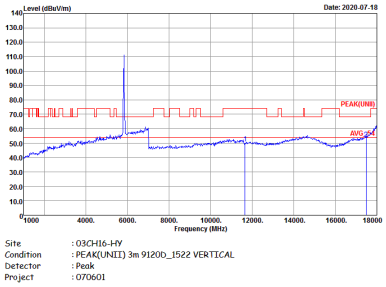
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH155 5775MHz	
2	Vertical	Fundamental
Peak		
Peak		Left blank

Band 4 - 5725~5850MHz

WIFI 802.11a (Harmonic @ 3m)

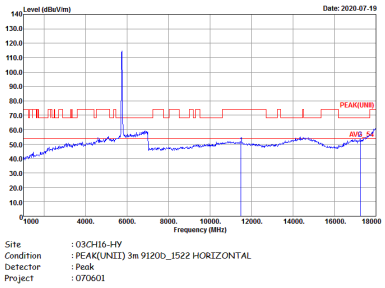
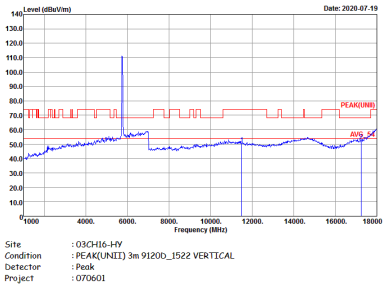
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH149 5745MHz	
2	Horizontal	Vertical
Peak Avg.		

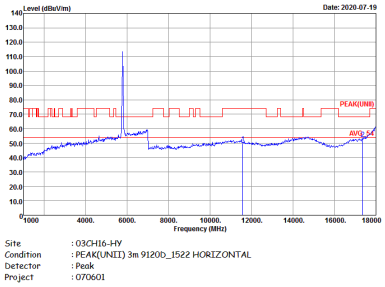
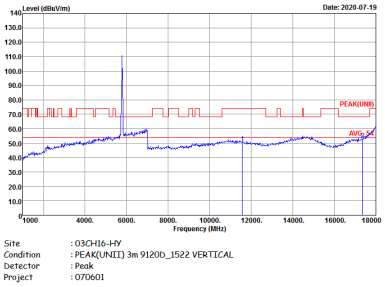
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH157 5785MHz	
2	Horizontal	Vertical
Peak Avg.		

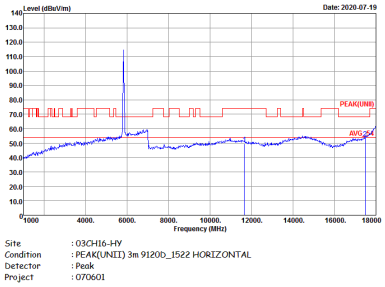
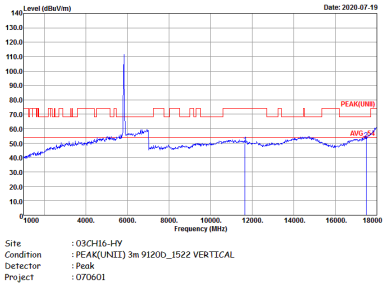
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH165 5825MHz	
2	Horizontal	Vertical
Peak Avg.		

Band 4 5725~5850MHz

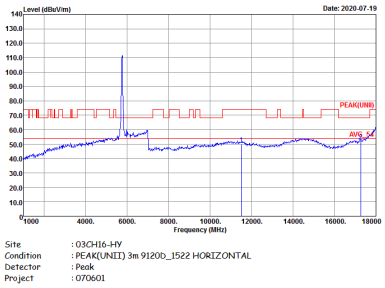
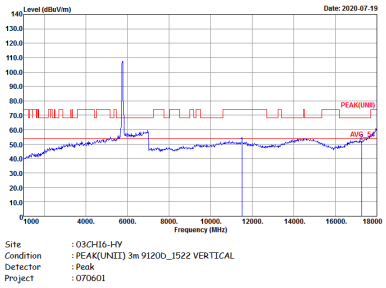
WIFI 802.11ac VHT20 (Harmonic @ 3m)

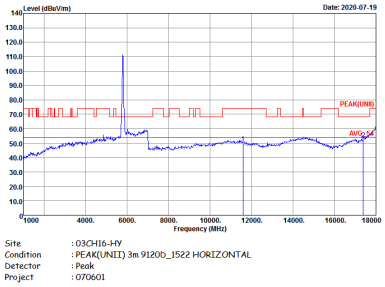
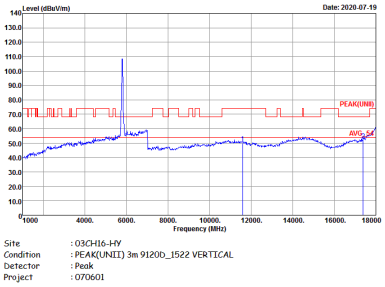
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ac VHT20 CH149 5745MHz	
2	Horizontal	Vertical
Peak Avg.		

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ac VHT20 CH157 5785MHz	
2	Horizontal	Vertical
Peak Avg.		

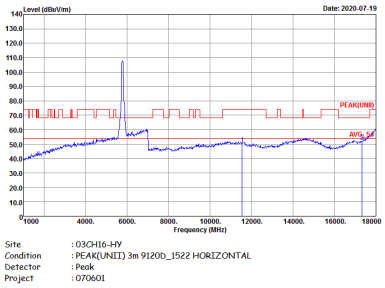
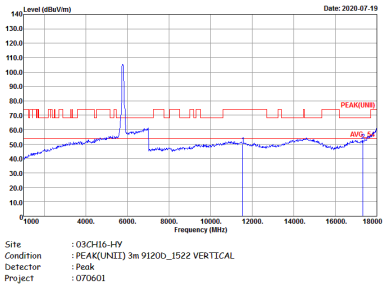
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ac VHT20 CH165 5825MHz	
2	Horizontal	Vertical
Peak Avg.		

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

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ac VHT40 CH151 5755MHz	
2	Horizontal	Vertical
Peak Avg.		

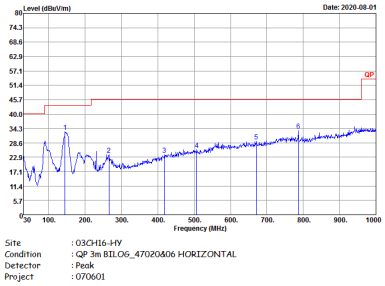
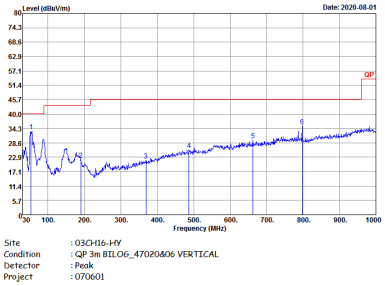
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ac VHT40 CH159 5795MHz	
2	Horizontal	Vertical
Peak Avg.		

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

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ac VHT80 CH155 5775MHz	
2	Horizontal	Vertical
Peak Avg.		

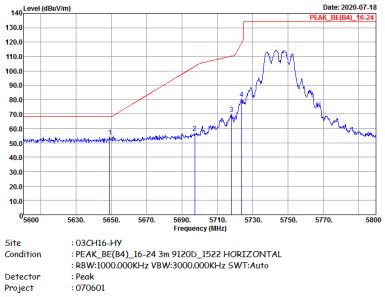
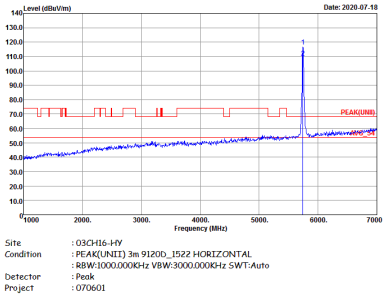
Emission below 1GHz

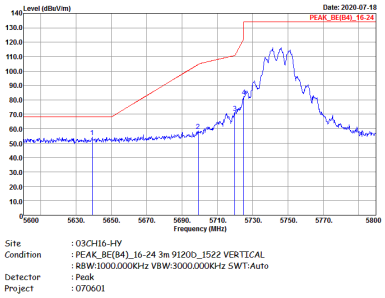
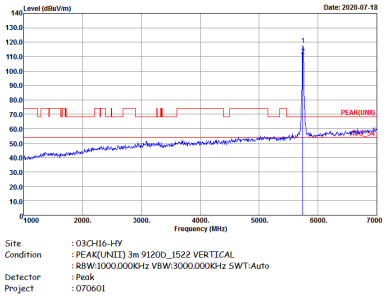
5GHz WIFI 802.11ac VHT80 (LF)

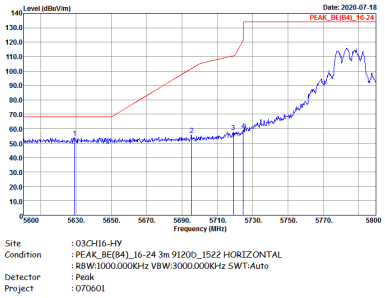
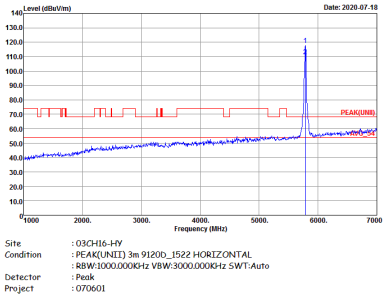
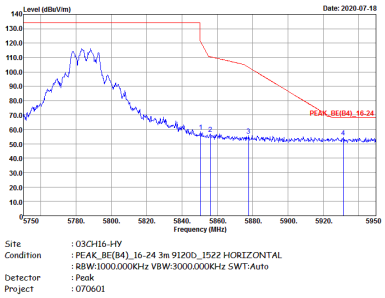
WIFI	5GHz WIFI	
ANT	802.11ac VHT80 LF	
2	Horizontal	Vertical
QP / Peak		

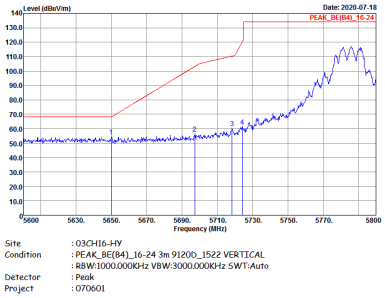
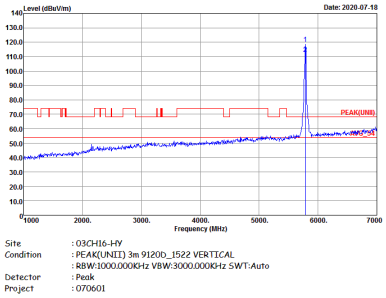
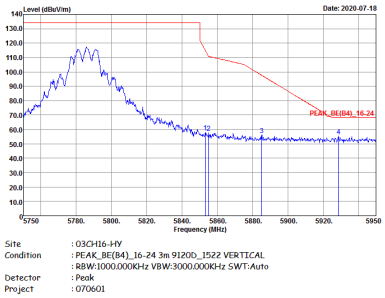
Band 4 - 5725~5850MHz

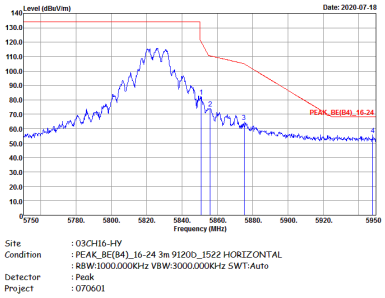
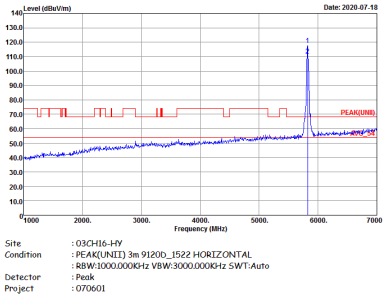
WIFI 802.11a (Band Edge @ 3m)

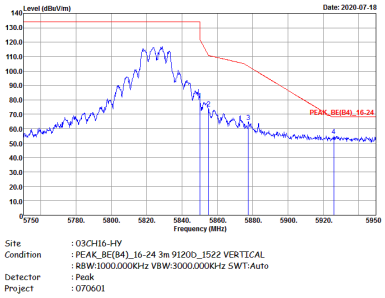
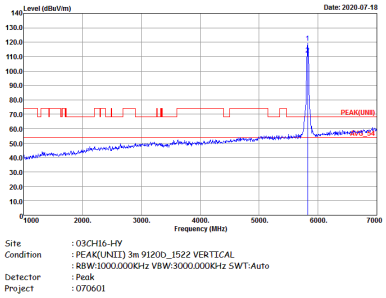
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH149 5745MHz	
1+2	Horizontal	Fundamental
Peak		

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH149 5745MHz	
1+2	Vertical	Fundamental
Peak		

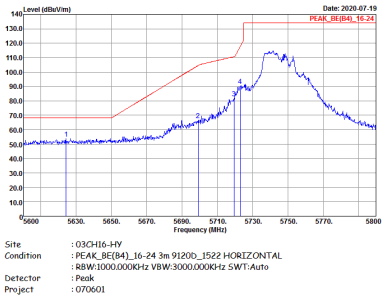
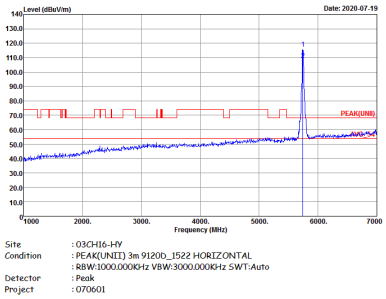
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH157 5785MHz	
1+2	Horizontal	Fundamental
Peak		
Peak		Left blank

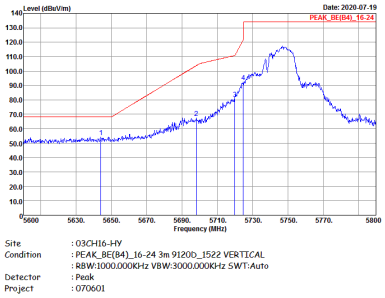
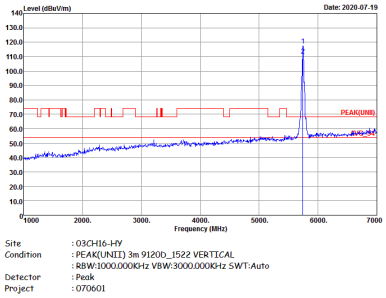
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH157 5785MHz	
1+2	Vertical	Fundamental
Peak		
Peak		Left blank

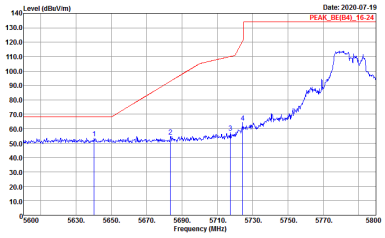
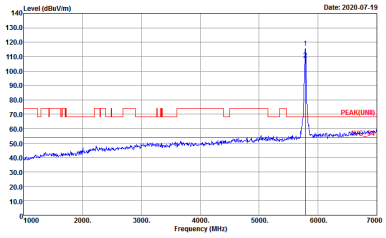
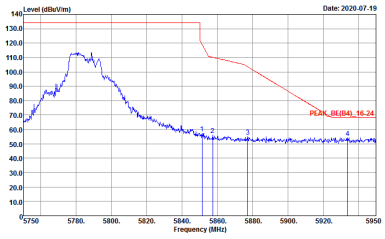
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH165 5825MHz	
1+2	Horizontal	Fundamental
Peak		

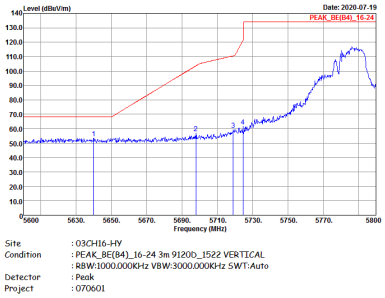
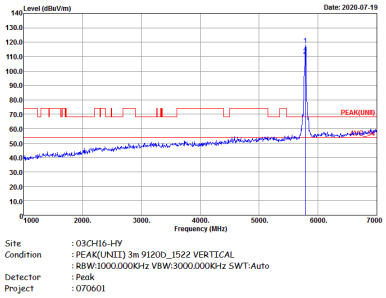
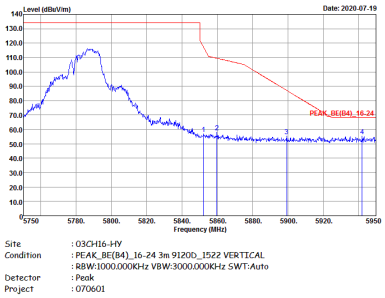
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH165 5825MHz	
1+2	Vertical	Fundamental
Peak		

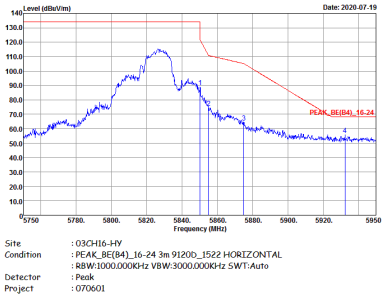
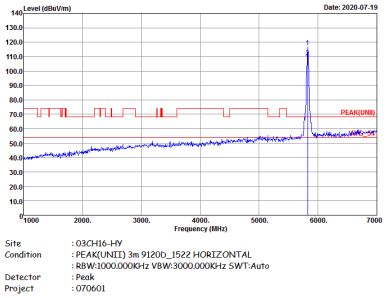
Band 4 5725~5850MHz
WIFI 802.11ac VHT20 (Band Edge @ 3m)

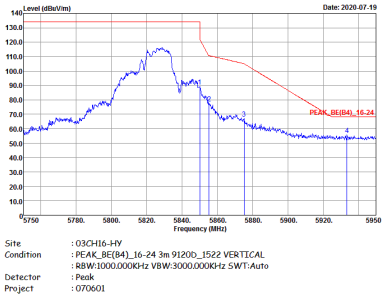
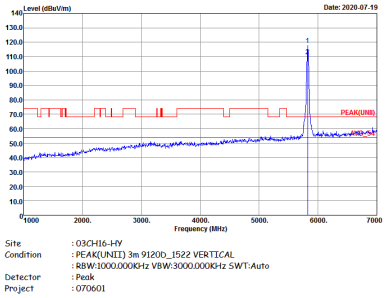
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH149 5745MHz	
1+2	Horizontal	Fundamental
Peak		

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH149 5745MHz	
1+2	Vertical	Fundamental
Peak Avg.		

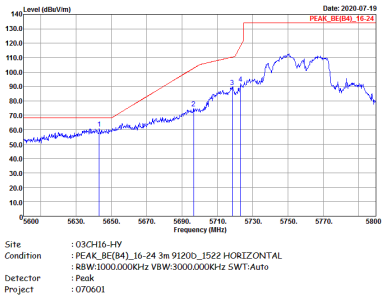
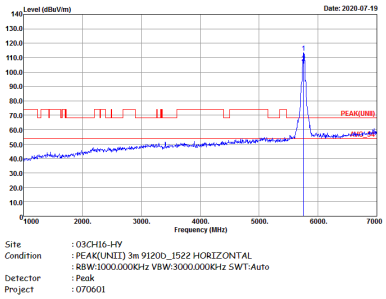
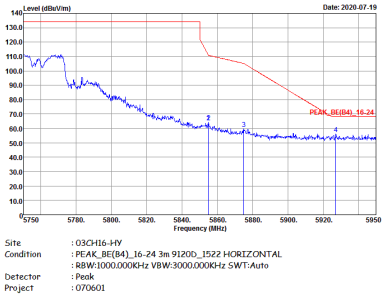
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH157 5785MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE(B4)_16-24 3m 9120D_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 070601	 Site : 03CH16-HY Condition : PEAK(UNII) 3m 9120D_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 070601
Peak	 Site : 03CH16-HY Condition : PEAK_BE(B4)_16-24 3m 9120D_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 070601	Left blank

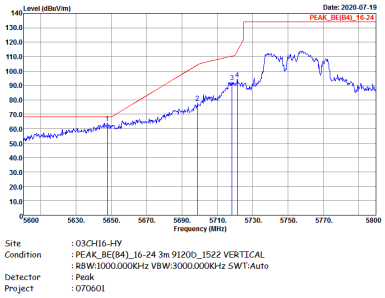
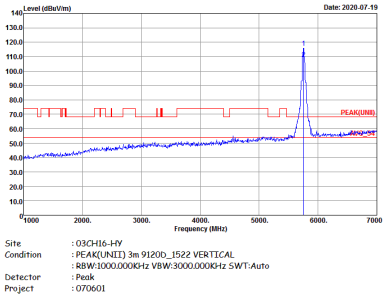
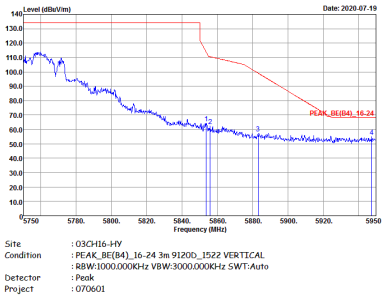
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH157 5785MHz	
1+2	Vertical	Fundamental
Peak		
Peak		Left blank

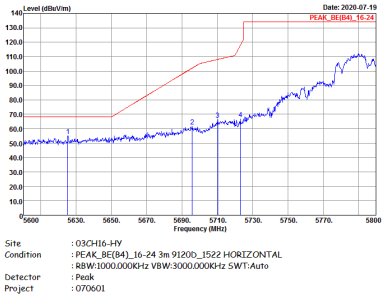
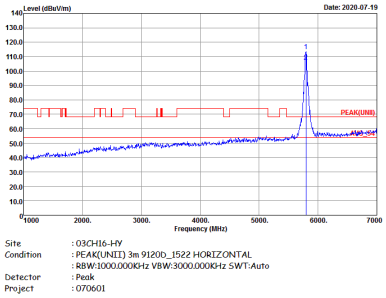
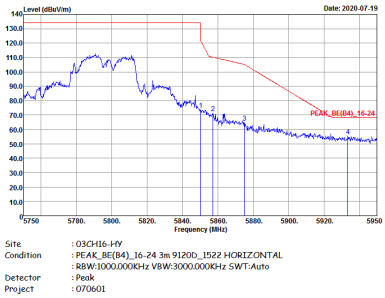
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH165 5825MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE(B4)_16-24 3m 9120D_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 070601	 Site : 03CH16-HY Condition : PEAK(UNII) 3m 9120D_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 070601

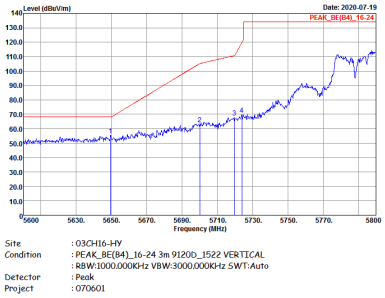
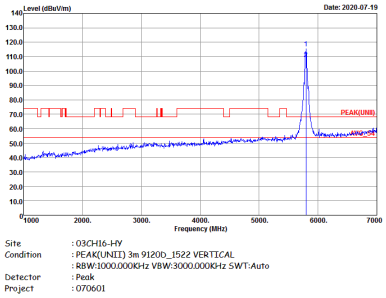
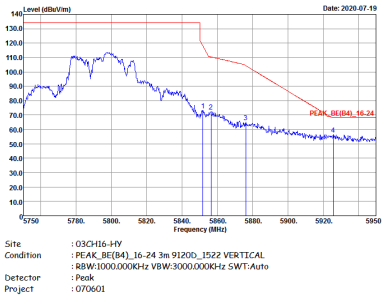
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH165 5825MHz	
1+2	Vertical	Fundamental
Peak Avg.		

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

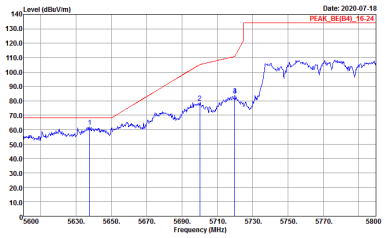
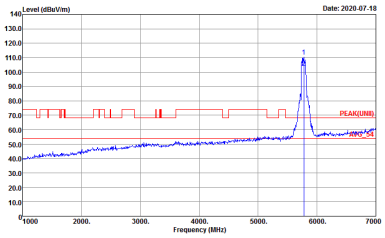
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH151 5755MHz	
1+2	Horizontal	Fundamental
Peak		
Peak		Left blank

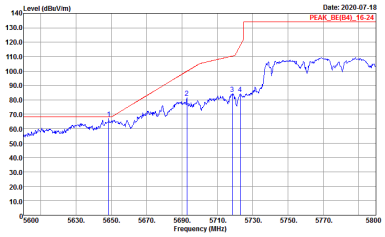
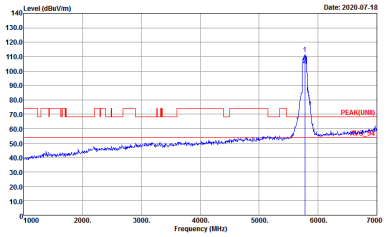
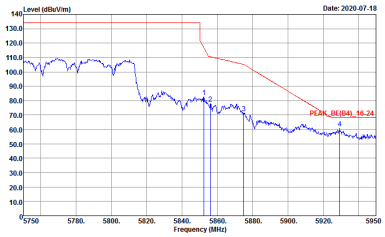
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH151 5755MHz	
1+2	Vertical	Fundamental
Peak		
Peak		Left blank

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH159 5795MHz	
1+2	Horizontal	Fundamental
Peak		
Peak		Left blank

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH159 5795MHz	
1+2	Vertical	Fundamental
Peak		
Peak		Left blank

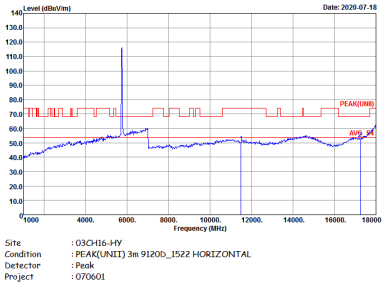
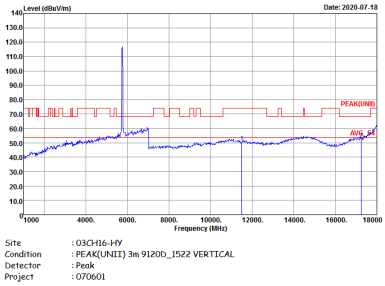
Band 4 5725~5850MHz
WIFI 802.11ac VHT80 (Band Edge @ 3m)

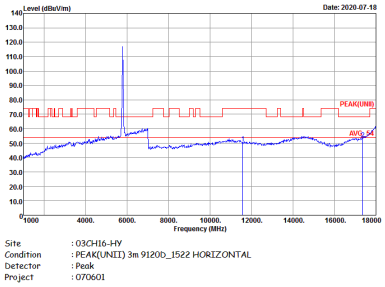
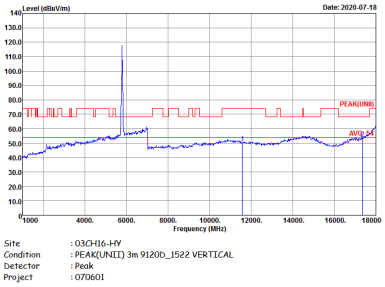
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH155 5775MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE(B4)_16-24 3m 9120D_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 070601 Setting : 18.5	 Site : 03CH16-HY Condition : PEAK(UNII) 3m 9120D_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 070601 Setting : 18.5
Peak	 Site : 03CH16-HY Condition : PEAK_BE(B4)_16-24 3m 9120D_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 070601 Setting : 18.5	Left blank

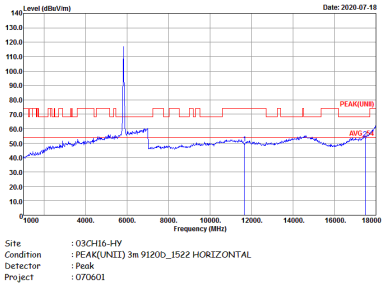
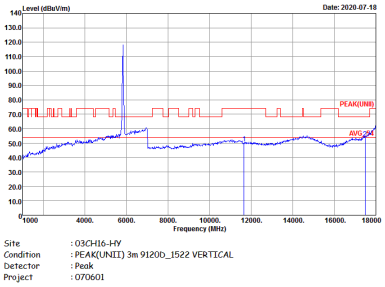
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH155 5775MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE(B4)_16-24 3m 9120D_1522 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 070601 Setting : 18.5	 Site : 03CH16-HY Condition : PEAK(UNII) 3m 9120D_1522 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 070601 Setting : 18.5
Peak	 Site : 03CH16-HY Condition : PEAK_BE(B4)_16-24 3m 9120D_1522 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 070601 Setting : 18.5	Left blank

Band 4 - 5725~5850MHz

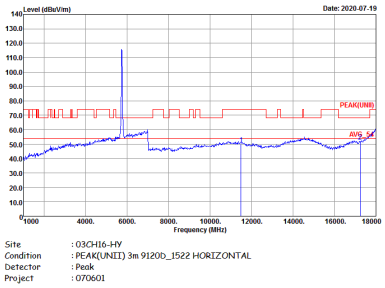
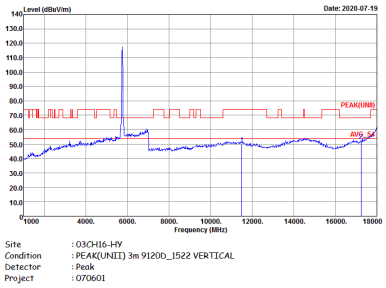
WIFI 802.11a (Harmonic @ 3m)

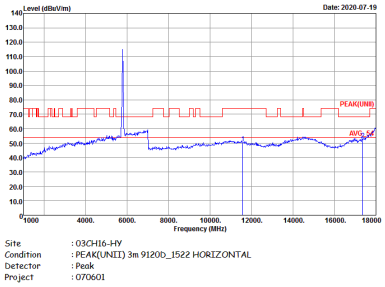
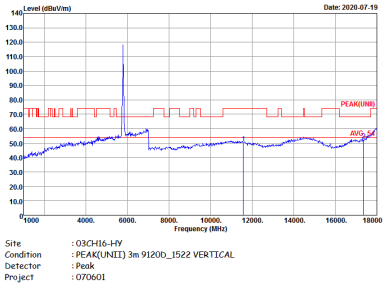
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH149 5745MHz	
1+2	Horizontal	Vertical
Peak Avg.		

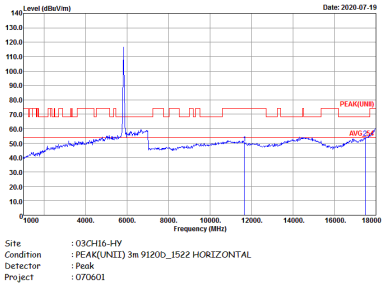
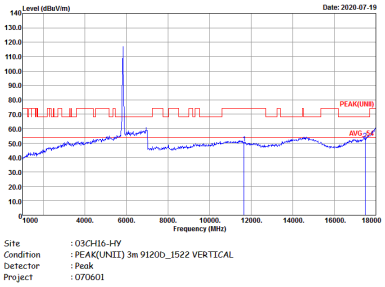
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH157 5785MHz	
1+2	Horizontal	Vertical
Peak Avg.		

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH165 5825MHz	
1+2	Horizontal	Vertical
Peak Avg.		

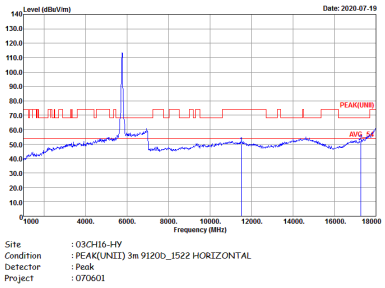
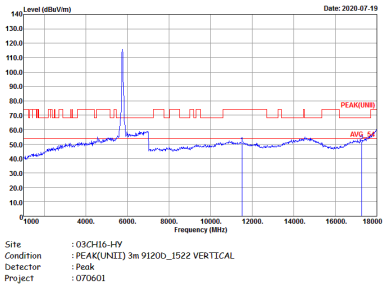
Band 4 5725~5850MHz
WIFI 802.11ac VHT20 (Harmonic @ 3m)

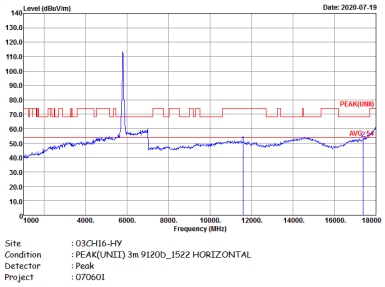
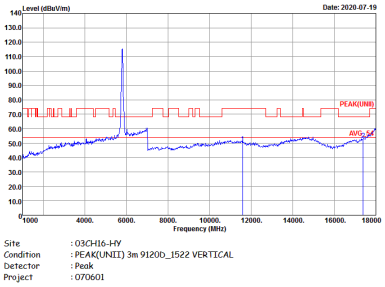
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ac VHT20 CH149 5745MHz	
1+2	Horizontal	Vertical
Peak Avg.		

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ac VHT20 CH157 5785MHz	
1+2	Horizontal	Vertical
Peak Avg.		

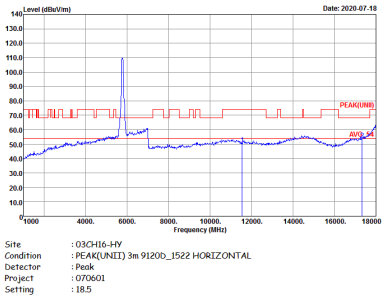
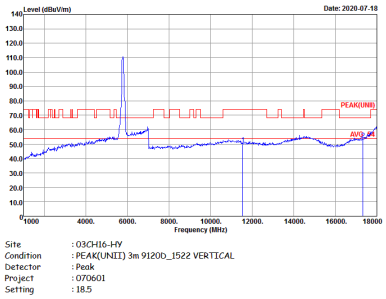
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ac VHT20 CH165 5825MHz	
1+2	Horizontal	Vertical
Peak Avg.		

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

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ac VHT40 CH151 5755MHz	
1+2	Horizontal	Vertical
Peak Avg.		

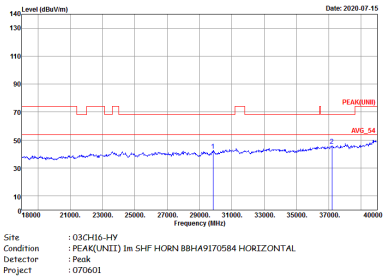
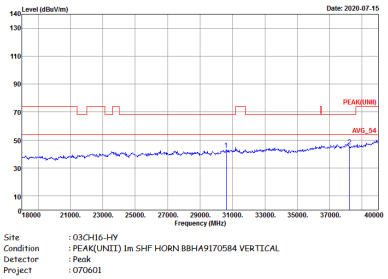
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ac VHT40 CH159 5795MHz	
1+2	Horizontal	Vertical
Peak Avg.		

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

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ac VHT80 CH155 5775MHz	
1+2	Horizontal	Vertical
Peak Avg.		

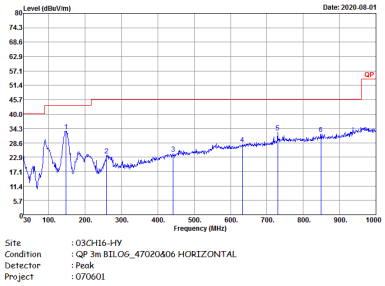
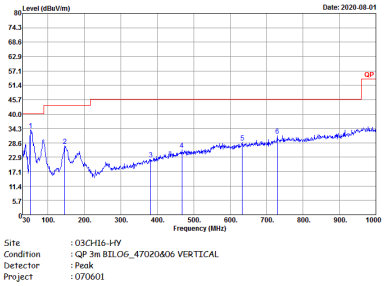
Emission above 18GHz

5GHz WIFI 802.11ac VHT80 (SHF)

WIFI	Band 4 5725~5850MHz (SHF)	
ANT	802.11ac VHT80 CH155 5775MHz	
1+2	Horizontal	Vertical
QP / Peak		

Emission below 1GHz

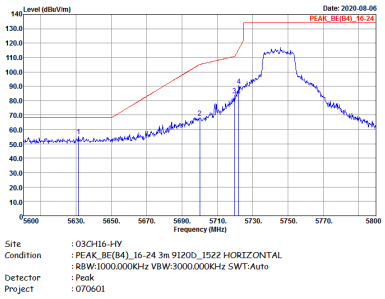
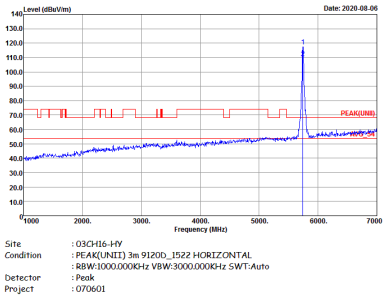
5GHz WIFI 802.11ac VHT80 (LF)

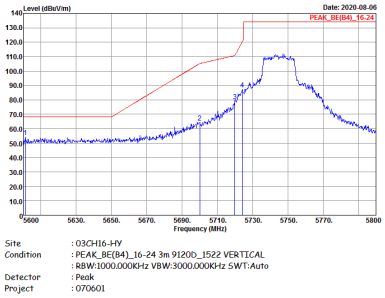
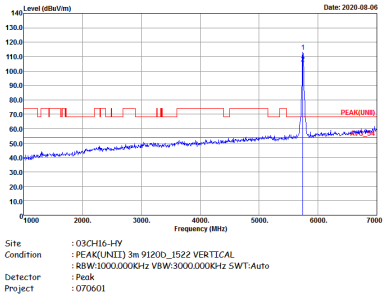
WIFI	5GHz WIFI	
ANT	802.11ac VHT80 LF	
1+2	Horizontal	Vertical
QP / Peak		

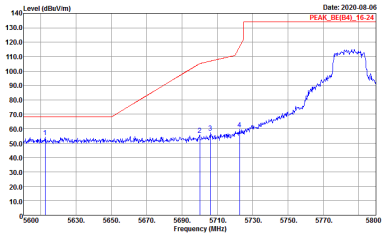
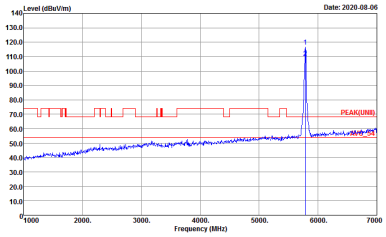
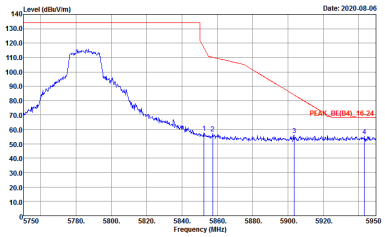
<TXBF Mode>

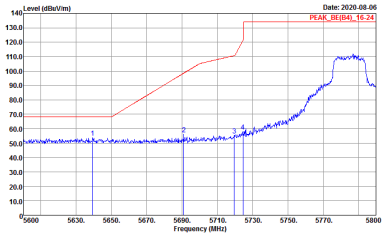
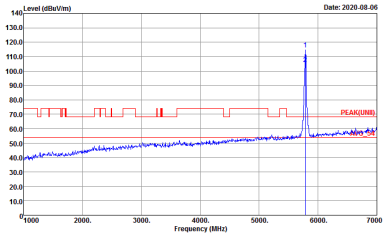
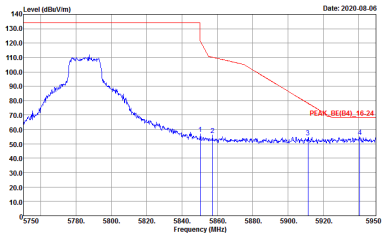
Band 4 - 5725~5850MHz

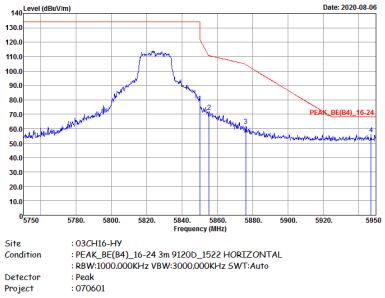
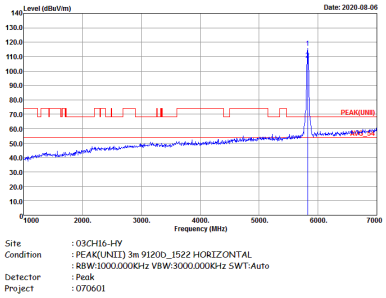
WIFI 802.11ac VHT20 (Band Edge @ 3m)

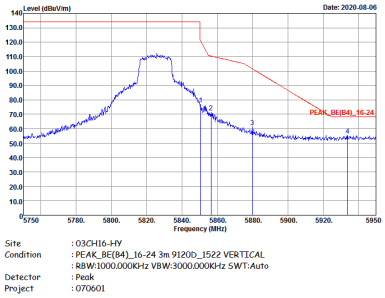
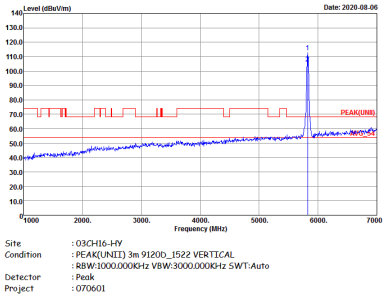
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH149 5745MHz	
1+2	Horizontal	Fundamental
Peak		

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH149 5745MHz	
1+2	Vertical	Fundamental
Peak Avg.	 Site : 03CH16-HY Condition : PEAK_BE(B4)_16-24 3m 9120D_1522 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 070601	 Site : 03CH16-HY Condition : PEAK(UNII) 3m 9120D_1522 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 070601

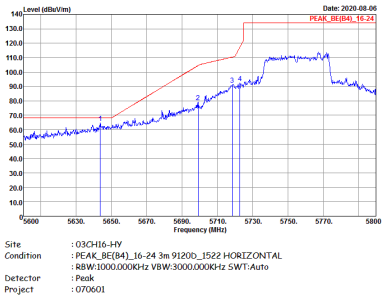
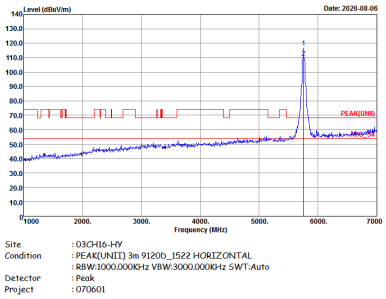
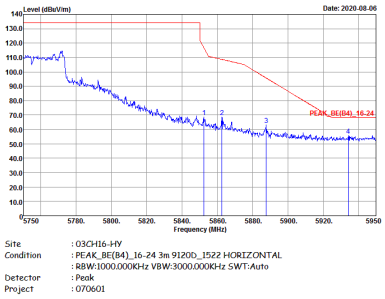
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH157 5785MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE(B4)_16-24 3m 9120D_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 070601	 Site : 03CH16-HY Condition : PEAK(UNII) 3m 9120D_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 070601
Peak	 Site : 03CH16-HY Condition : PEAK_BE(B4)_16-24 3m 9120D_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 070601	Left blank

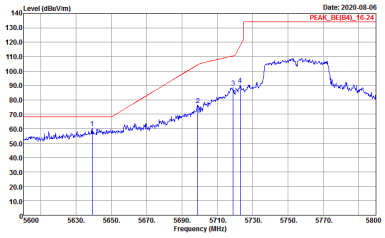
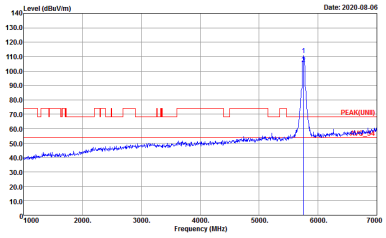
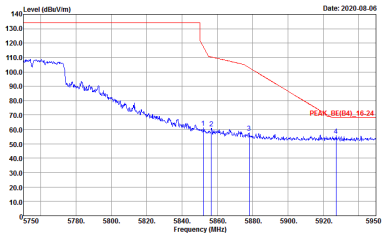
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH157 5785MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE(B4)_16-24 3m 9120D_1522 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 070601	 Site : 03CH16-HY Condition : PEAK(UNII) 3m 9120D_1522 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 070601
Peak	 Site : 03CH16-HY Condition : PEAK_BE(B4)_16-24 3m 9120D_1522 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 070601	Left blank

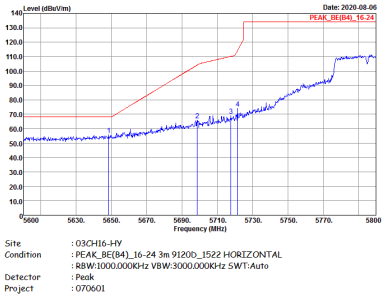
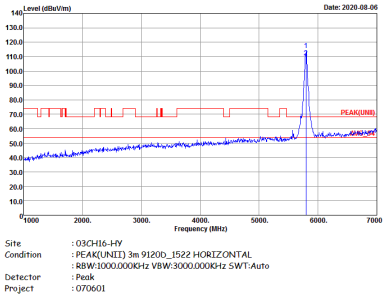
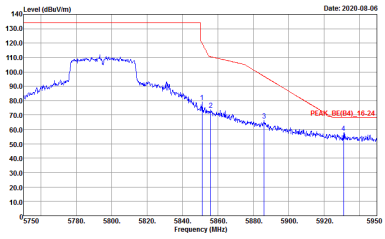
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH165 5825MHz	
1+2	Horizontal	Fundamental
Peak		

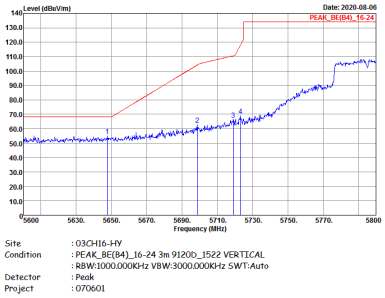
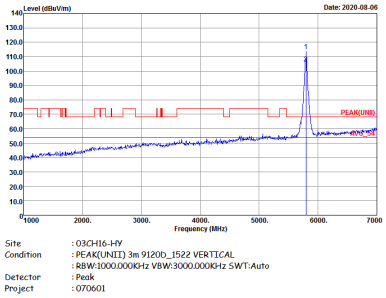
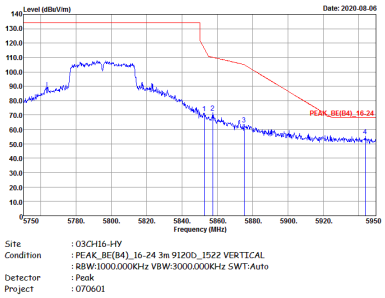
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH165 5825MHz	
1+2	Vertical	Fundamental
Peak Avg.	 Site : 03CH16-HY Condition : PEAK_BE(B4)_16-24 3m 9120D_1522 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 070601	 Site : 03CH16-HY Condition : PEAK(UNII) 3m 9120D_1522 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 070601

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

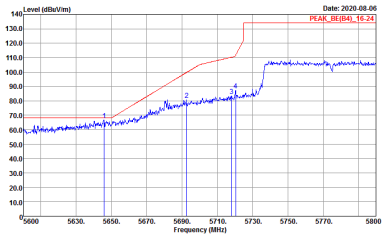
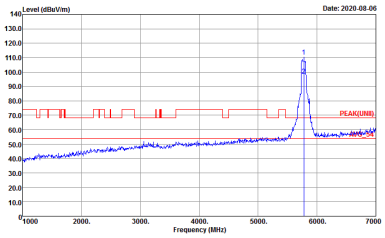
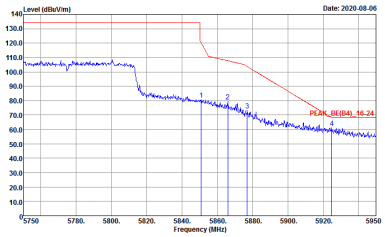
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH151 5755MHz	
1+2	Horizontal	Fundamental
Peak		
Peak		Left blank

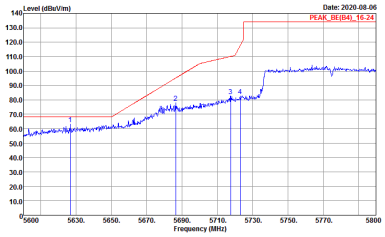
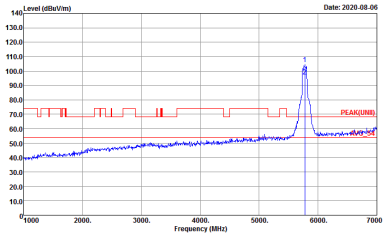
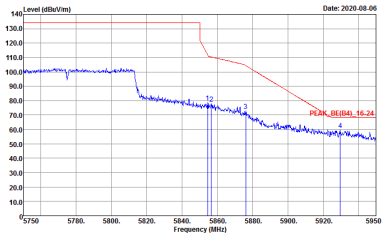
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH151 5755MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE(B4)_16-24 3m 9120D_1522 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 070601	 Site : 03CH16-HY Condition : PEAK(UNII) 3m 9120D_1522 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 070601
Peak	 Site : 03CH16-HY Condition : PEAK_BE(B4)_16-24 3m 9120D_1522 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 070601	Left blank

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH159 5795MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE(B4)_16-24 3m 9120D_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 070601	 Site : 03CH16-HY Condition : PEAK(UNII) 3m 9120D_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 070601
Peak	 Site : 03CH16-HY Condition : PEAK_BE(B4)_16-24 3m 9120D_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 070601	Left blank

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH159 5795MHz	
1+2	Vertical	Fundamental
Peak		
Peak		Left blank

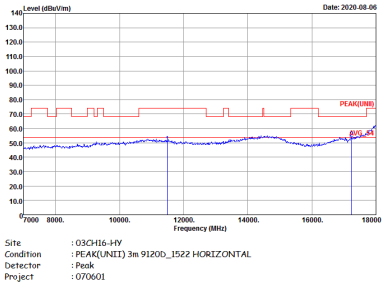
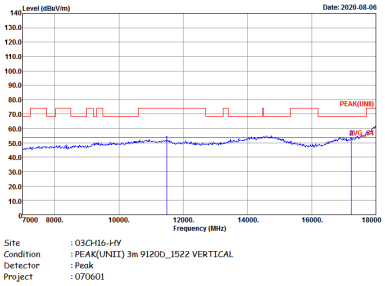
Band 4 5725~5850MHz
WIFI 802.11ac VHT80 (Band Edge @ 3m)

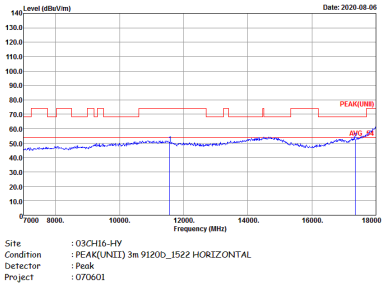
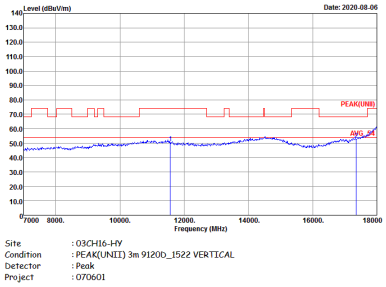
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH155 5775MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE(B4)_16-24 3m 9120D_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 070601 Setting : 18.5	 Site : 03CH16-HY Condition : PEAK(UNII) 3m 9120D_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 070601 Setting : 18.5
Peak	 Site : 03CH16-HY Condition : PEAK_BE(B4)_16-24 3m 9120D_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 070601 Setting : 18.5	Left blank

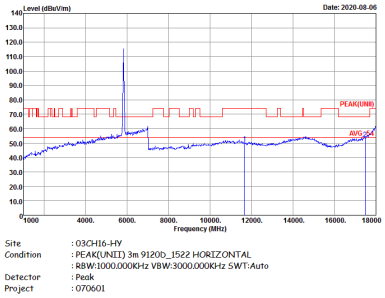
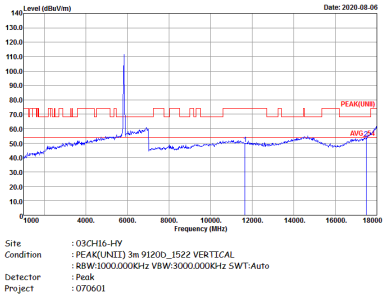
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH155 5775MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE(B4)_16-24 3m 9120D_1522 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 070601 Setting : 18.5	 Site : 03CH16-HY Condition : PEAK(UNII) 3m 9120D_1522 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 070601 Setting : 18.5
Peak	 Site : 03CH16-HY Condition : PEAK_BE(B4)_16-24 3m 9120D_1522 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 070601 Setting : 18.5	Left blank

Band 4 - 5725~5850MHz

WIFI 802.11ac VHT20 (Harmonic @ 3m)

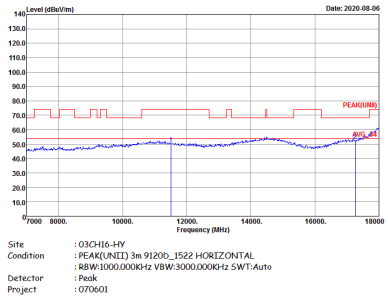
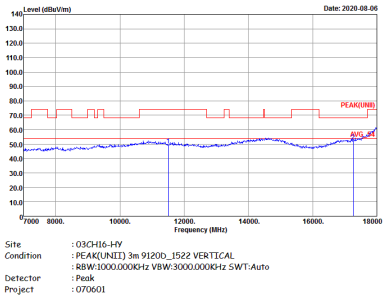
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ac VHT20 CH149 5745MHz	
1+2	Horizontal	Vertical
Peak Avg.		

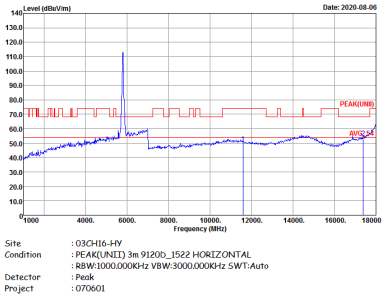
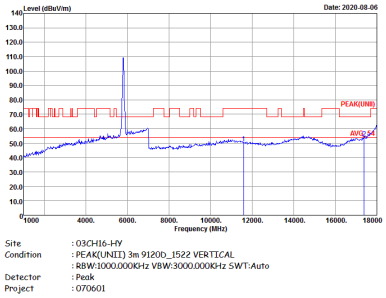
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ac VHT20 CH157 5785MHz	
1+2	Horizontal	Vertical
Peak Avg.		

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ac VHT20 CH165 5825MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH16-HY Condition : PEAK(UNII) 3m 9120D_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 070601	 Site : 03CH16-HY Condition : PEAK(UNII) 3m 9120D_1522 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 070601

Band 4 5725~5850MHz

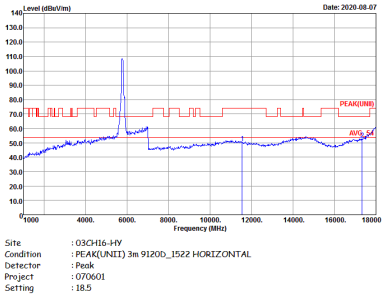
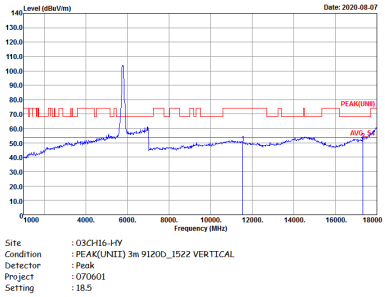
WIFI 802.11ac VHT40 (Harmonic @ 3m)

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ac VHT40 CH151 5755MHz	
1+2	Horizontal	Vertical
Peak Avg.		

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ac VHT40 CH159 5795MHz	
1+2	Horizontal	Vertical
Peak Avg.		

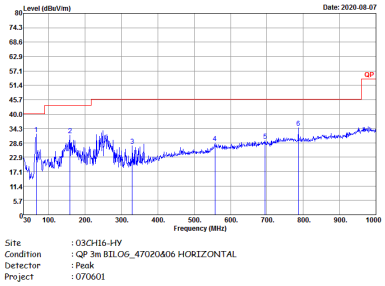
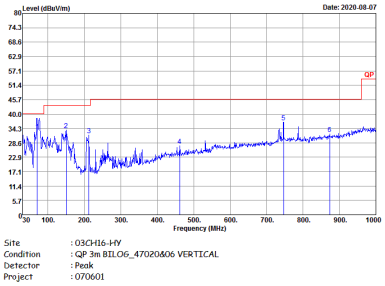
Emission above 18GHz

5GHz WIFI 802.11ac VHT80 (SHF)

WIFI	Band 4 5725~5850MHz (SHF)	
ANT	802.11ac VHT80 CH155 5775MHz	
1+2	Horizontal	Vertical
Peak Avg.		

Emission below 1GHz

5GHz WIFI 802.11ac VHT80 (LF)

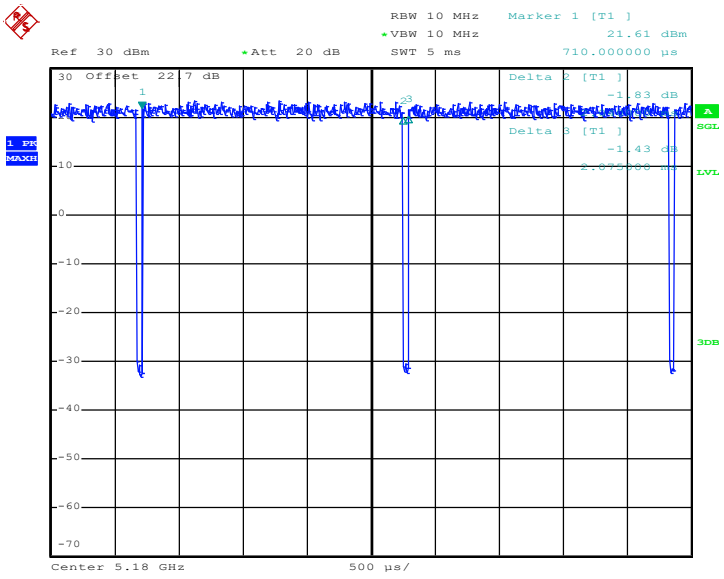
WIFI	5GHz WIFI	
ANT	802.11ac VHT80 LF	
1+2	Horizontal	Vertical
QP / Peak		

Appendix D. Duty Cycle Plots

Antenna	Band	Duty Cycle(%)	T(us)	1/T(kHz)	VBW Setting	Duty Factor(dB)
1	802.11a	98.31	-	-	10Hz	0.07
2	802.11a	97.84	2035	0.49	1kHz	0.09
1+2	802.11a for Ant. 1	97.84	2035	0.49	1kHz	0.09
1+2	802.11a for Ant. 2	97.84	2040	0.49	1kHz	0.09
1	5GHz 802.11ac VHT20	97.95	1910	0.52	1kHz	0.09
2	5GHz 802.11ac VHT20	97.95	1910	0.52	1kHz	0.09
1+2	5GHz 802.11ac VHT20 for Ant. 1	97.69	1905	0.52	1kHz	0.10
1+2	5GHz 802.11ac VHT20 for Ant. 2	97.69	1900	0.53	1kHz	0.10
1	5GHz 802.11ac VHT40	96.43	945	1.06	3kHz	0.16
2	5GHz 802.11ac VHT40	95.41	935	1.07	3kHz	0.20
1+2	5GHz 802.11ac VHT40 for Ant. 1	95.92	940	1.06	3kHz	0.18
1+2	5GHz 802.11ac VHT40 for Ant. 2	95.90	935	1.07	3kHz	0.18
1	5GHz 802.11ac VHT80	92.68	456	2.19	3kHz	0.33
2	5GHz 802.11ac VHT80	91.94	456	2.19	3kHz	0.36
1+2	5GHz 802.11ac VHT80 for Ant. 1	91.94	456	2.19	3kHz	0.36
1+2	5GHz 802.11ac VHT80 for Ant. 2	91.87	452	2.21	3kHz	0.37

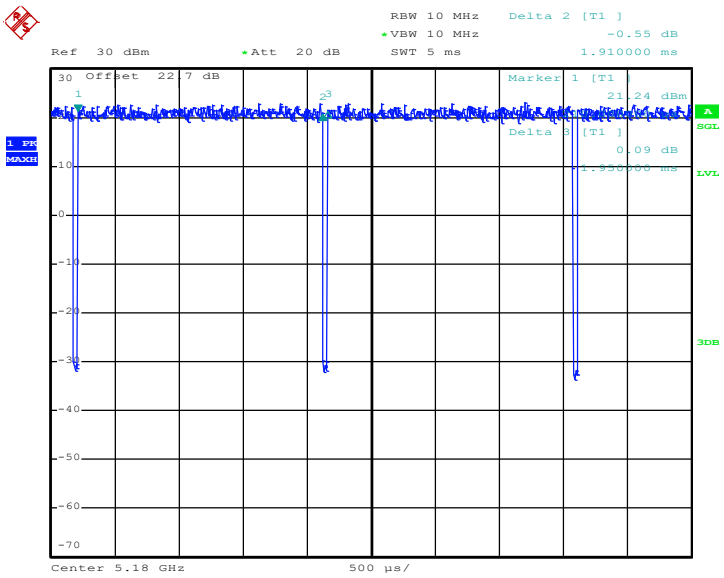
<Ant. 1>

802.11a



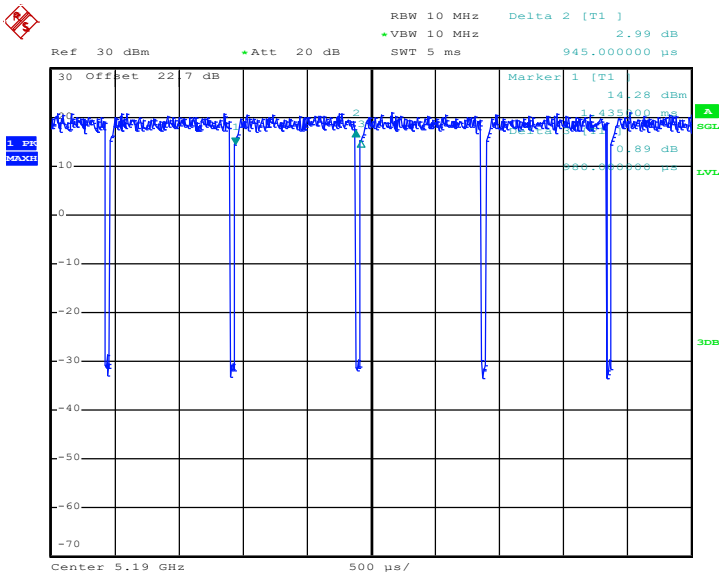
Date: 18.JUL.2020 00:26:30

802.11ac VHT20



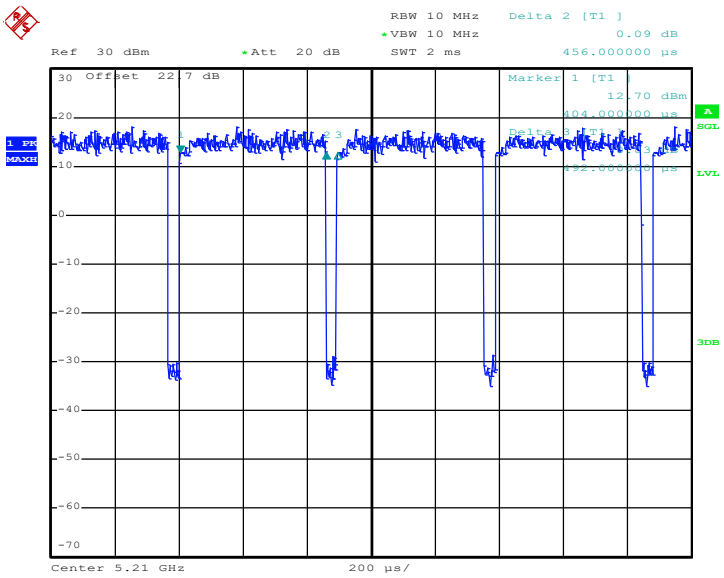
Date: 18.JUL.2020 00:37:38

802.11ac VHT40



Date: 18.JUL.2020 00:41:01

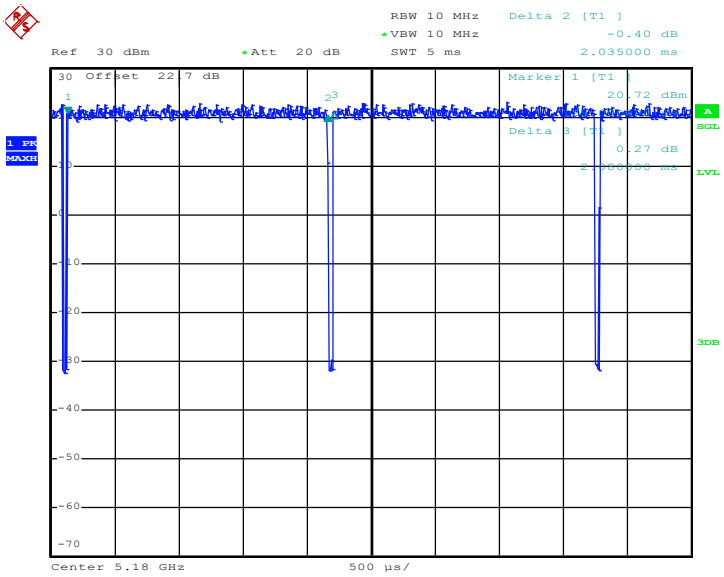
802.11ac VHT80



Date: 18.JUL.2020 00:44:34

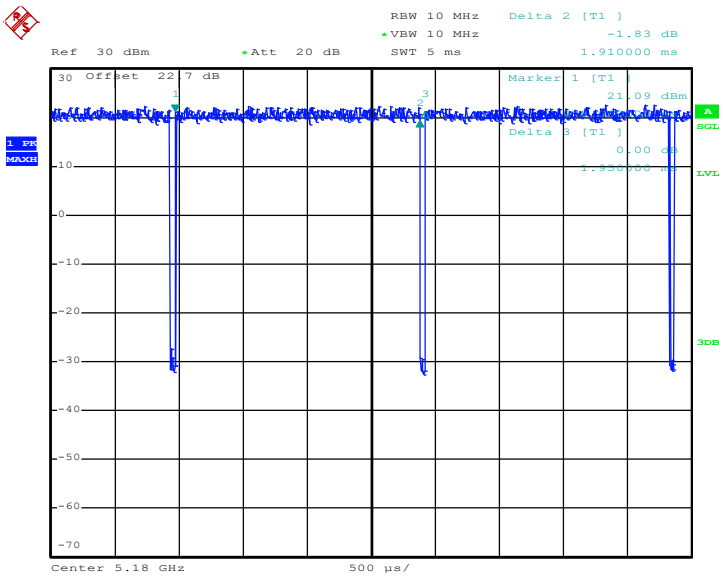
<Ant. 2>

802.11a



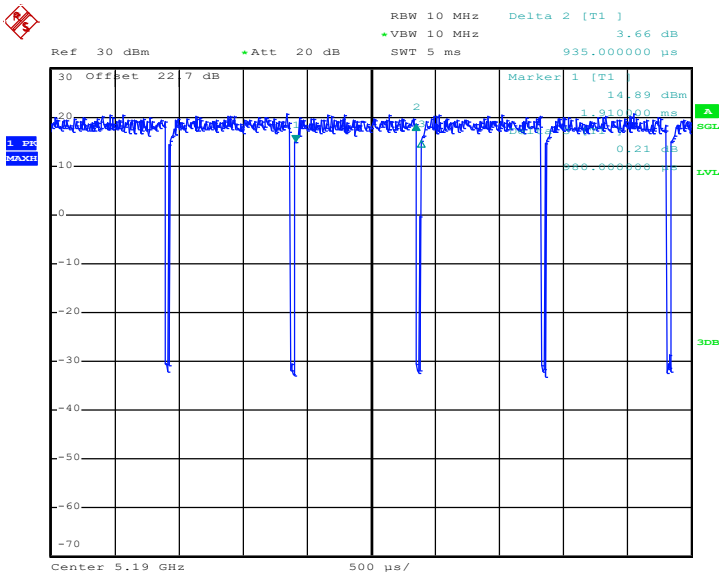
Date: 18.JUL.2020 00:27:39

802.11ac VHT20



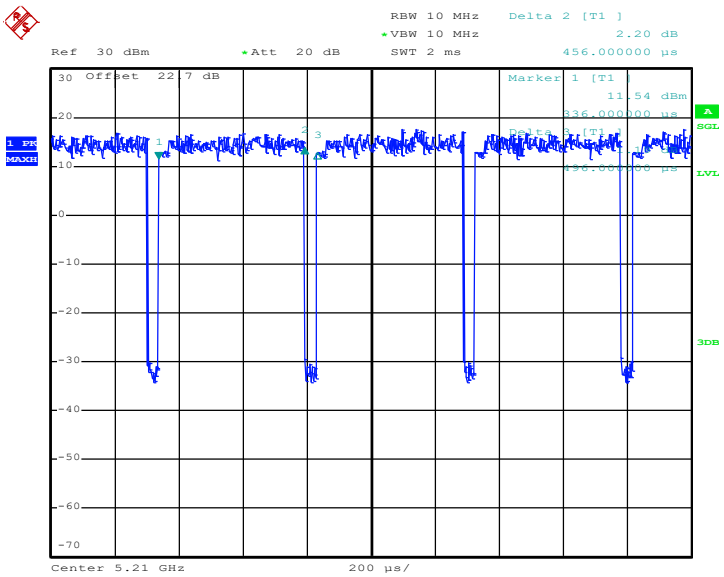
Date: 18.JUL.2020 00:38:19

802.11ac VHT40



Date: 18.JUL.2020 00:41:48

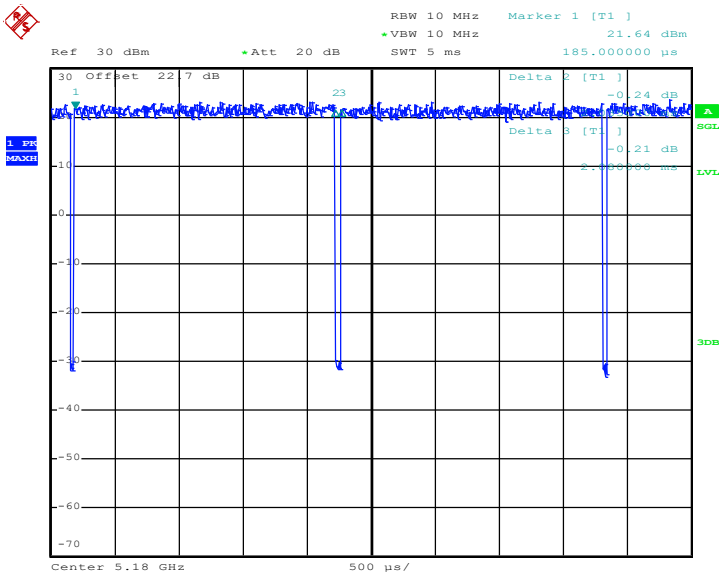
802.11ac VHT80



Date: 18.JUL.2020 00:45:24

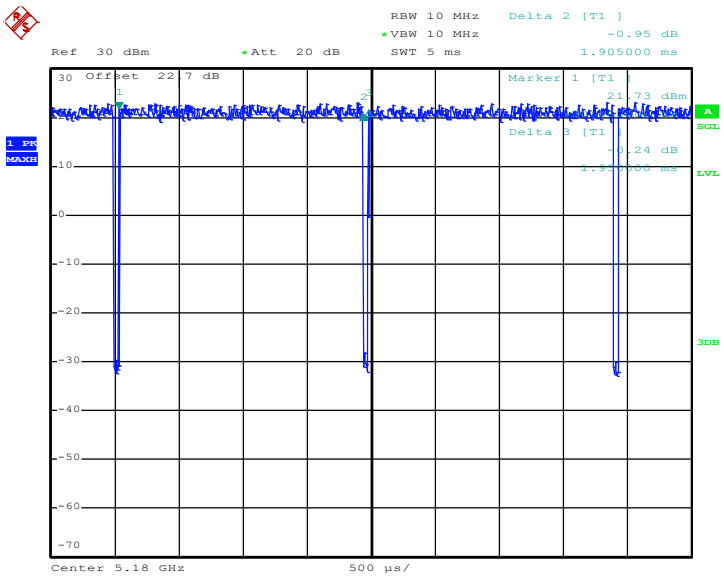
MIMO <Ant. 1>

802.11a



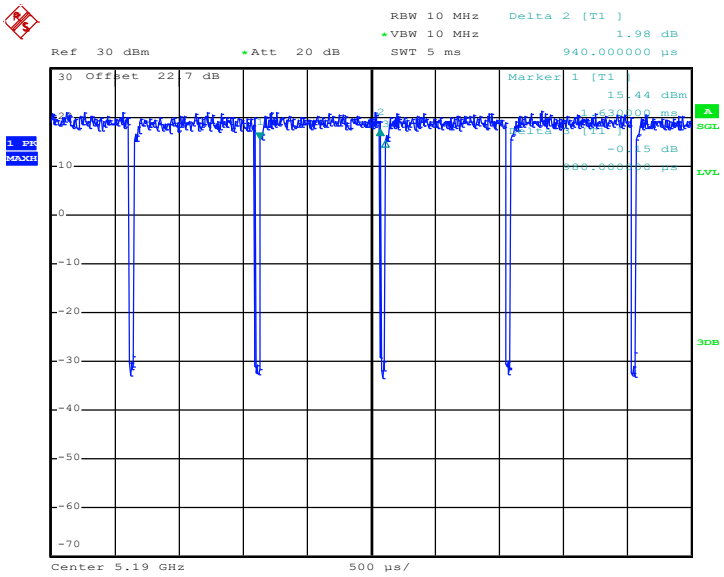
Date: 18.JUL.2020 00:28:30

802.11ac VHT20



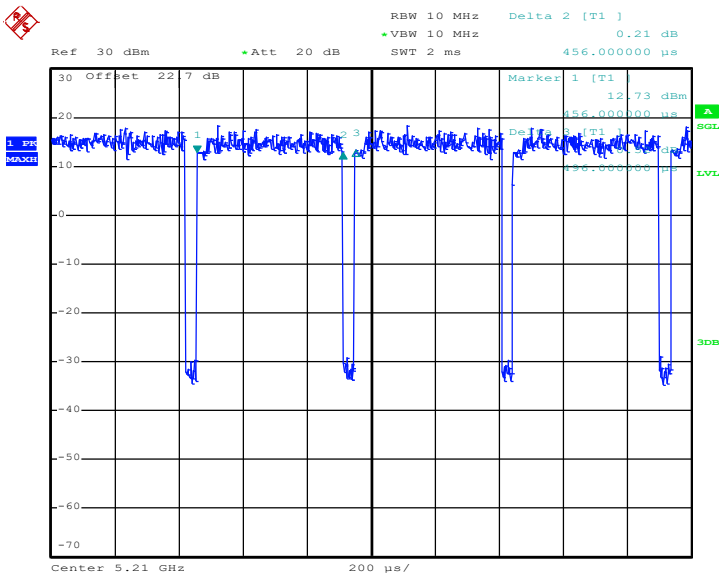
Date: 18.JUL.2020 00:39:04

802.11ac VHT40



Date: 18.JUL.2020 00:42:36

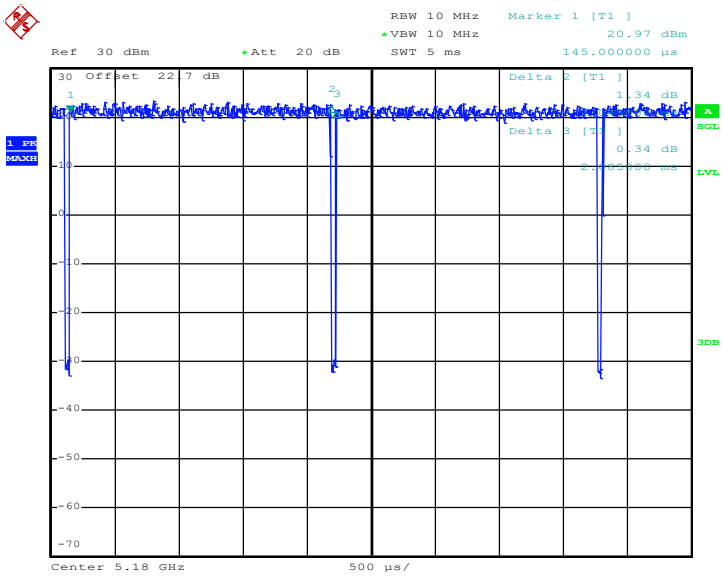
802.11ac VHT80



Date: 18.JUL.2020 00:46:10

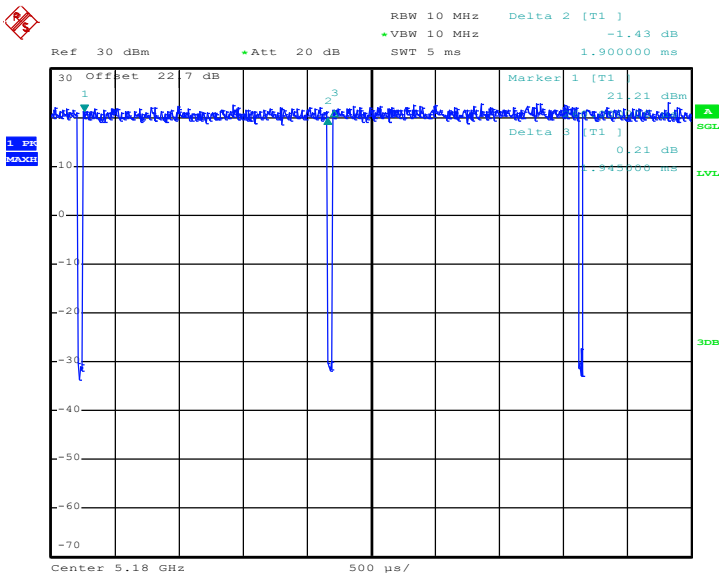
MIMO <Ant. 2>

802.11a



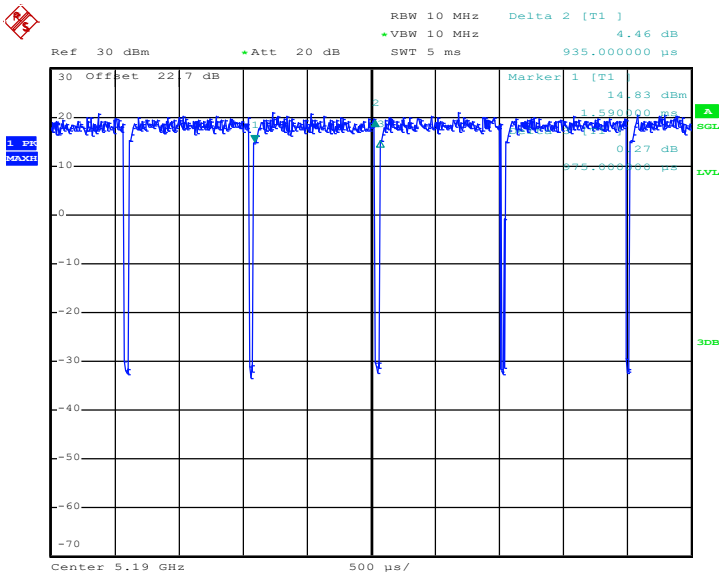
Date: 18.JUL.2020 00:29:29

802.11ac VHT20



Date: 18.JUL.2020 00:39:52

802.11ac VHT40



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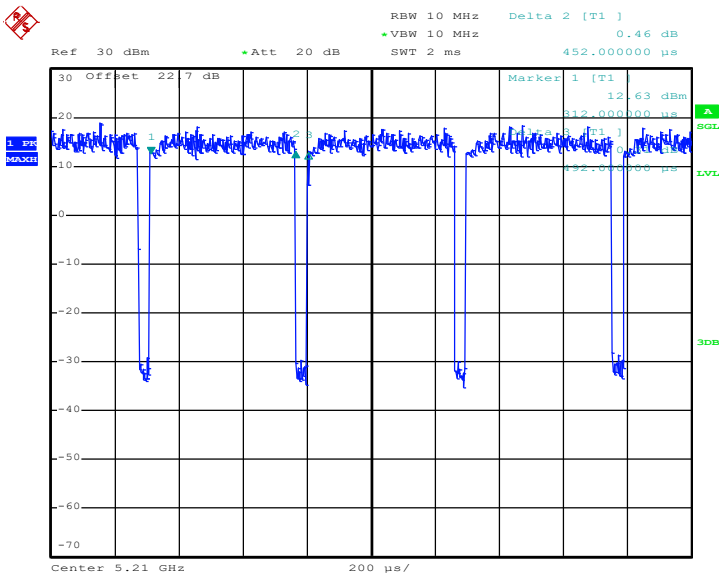
802.11ac VHT80



Date: 18.JUL.2020 00:47:00