FCC RADIO TEST REPORT

FCC ID	**:**	**UZ7TC520K**
Equipment	**:**	**Touch Computer**
Brand Name	**:**	**Zebra**
Model name	**:**	**TC520K**
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 May 31, 2018 and testing was started from Jul. 10, 2018 and completed on Aug. 29, 2018. We, SPORTON INTERNATIONAL INC., would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

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

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

Approved by: Joseph Lin

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
FR853105F	01	Initial issue of report	Aug. 29, 2018

Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.1	15.403 (i)	6dB & 26dB Bandwidth	Pass	-
3.1	2.1049	99% Occupied Bandwidth	Reporting only	-
3.2	15.407 (a)	Maximum Conducted Output Power	Pass	-
3.3	15.407 (a)	Power Spectral Density	Pass	-
3.4	15.407(b)	Unwanted Emissions	Pass	Under limit 3.89 dB at 11490.000 MHz
3.5	15.207	AC Conducted Emission	Pass	Under limit 16.44 dB at 0.301 MHz
3.6	15.407 (c)	Automatically Discontinue Transmission	Pass	-
3.7	15.203 & 15.407 (a)	Antenna Requirement	Pass	-

Reviewed by: Wii Chang

Report Producer: Natasha Hsieh

1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature	
Equipment	Touch Computer
Brand Name	Zebra
Model Name	TC520K
FCC ID	UZ7TC520K
EUT supports Radios application	NFC WLAN 11a/b/g/n HT20/HT40 WLAN 11ac VHT20/VHT40/VHT80 Bluetooth BR/EDR/LE
HW Version	DV
SW Version	91-09-14.00-ON-U00-STD
FW Version	FUSION_QA_2_1.0.0.027_O
MFD	20-JUL-18
EUT Stage	Engineering Sample

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

Specification of Accessories				
Adapter	**Brand Name**	Zebra	**Part Number**	PWR-WUA5V12W0US
Battery 1	**Brand Name**	Zebra	**Part Number**	BT-000314-50
Battery 2	**Brand Name**	Zebra	**Part Number**	BT-000314-01
USB cable	**Brand Name**	Zebra	**Part Number**	CBL-TC51-USB1-01
Headset Jumper 1	**Brand Name**	Zebra	**Part Number**	CBL-TC51-HDST25-01
Headset Jumper 2	**Brand Name**	Zebra	**Part Number**	CBL-TC51-HDST35-01
2.5mm Earphone	**Brand Name**	Zebra	**Part Number**	HDST-25MM-PTVP-01
3.5mm Earphone	**Brand Name**	Zebra	**Part Number**	HDST-35MM-PTVP-01
Exoskeleton	**Brand Name**	Zebra	**Part Number**	SG-TC51-EX01-01
Trigger Handle	**Brand Name**	Zebra	**Part Number**	TRG-TC51-SNP1-01
Soft Holster	**Brand Name**	Zebra	**Part Number**	SG-TC51-HLSTR1-01
Hand strap	**Brand Name**	Zebra	**Part Number**	SG-TC51-BHDSTP1-03
USB-C Adapter	**Brand Name**	Zebra	**Part Number**	ADPTR-TC56-USBC-01
USB Type C cable	**Brand Name**	Zebra	**Part Number**	N/A

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>	**<5745 MHz ~ 5825 MHz>** **<Ant. 1>** 802.11a : 18.26 dBm / 0.0670 W 802.11n HT20 : 17.94 dBm / 0.0622 W 802.11n HT40 : 16.67 dBm / 0.0465 W 802.11ac VHT20: 17.45 dBm / 0.0556 W 802.11ac VHT40: 16.00 dBm / 0.0398 W 802.11ac VHT80: 16.91 dBm / 0.0491 W **<Ant. 2>** 802.11a : 17.13 dBm / 0.0516 W 802.11n HT20 : 17.18 dBm / 0.0522 W 802.11n HT40 : 16.60 dBm / 0.0457 W 802.11ac VHT20: 17.17 dBm / 0.0521 W 802.11ac VHT40: 16.57 dBm / 0.0454 W 802.11ac VHT80: 16.74 dBm / 0.0472 W **MIMO <Ant. 1 + 2>** 802.11a : 20.06 dBm / 0.1014 W 802.11n HT20 : 20.17 dBm / 0.1040 W 802.11n HT40 : 19.88 dBm / 0.0973 W 802.11ac VHT20: 20.11 dBm / 0.1026 W 802.11ac VHT40: 19.83 dBm / 0.0962 W 802.11ac VHT80: 19.51 dBm / 0.0893 W
Maximum Output Power <TXBF Modes>	**<5745 MHz ~ 5825 MHz>** **MIMO <Ant. 1 + 2>** 802.11ac VHT20: 19.92 dBm / 0.0982 W 802.11ac VHT40: 19.66 dBm / 0.0925 W 802.11ac VHT80: 19.61 dBm / 0.0914 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 : 16.90 MHz
802.11n HT20 : 17.95 MHz
802.11n HT40 : 36.60 MHz
802.11ac VHT80 : 76.68 MHz
<Ant. 2>
802.11a : 16.90 MHz
802.11n HT20 : 18.15 MHz
802.11n HT40 : 36.70 MHz
802.11ac VHT80 : 76.92 MHz
MIMO <Ant. 1>
802.11a : 16.85 MHz
802.11n HT20 : 18.00 MHz
802.11n HT40 : 36.70 MHz
802.11ac VHT80 : 76.92 MHz
MIMO <Ant. 2>
802.11a : 16.85 MHz
802.11n HT20 : 18.00 MHz
802.11n HT40 : 36.70 MHz
802.11ac VHT80 : 76.80 MHz</td></tr>
<tr><td>99% Occupied Bandwidth
<TXBF Modes></td><td>MIMO <Ant. 1>
802.11ac VHT20 : 17.75 MHz
802.11ac VHT40 : 36.70 MHz
802.11ac VHT80 : 76.92 MHz
MIMO <Ant. 2>
802.11ac VHT20 : 18.90 MHz
802.11ac VHT40 : 36.70 MHz
802.11ac VHT80 : 77.04 MHz</td></tr>
<tr><td>Antenna Gain / Gain</td><td><Ant. 1> : PIFA Antenna with gain 3.00 dBi
<Ant. 2> : PIFA Antenna with gain 2.80 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
CDD 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

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

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

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

Test Site	SPORTON INTERNATIONAL INC.
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855
Test Site No.	**Sporton Site No.**
	03CH12-HY

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

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 662911 D01 Multiple Transmitter Output v02r01.
- ANSI C63.10-2013

Remark:

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

2 Test Configuration of Equipment Under Test

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

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

2.1 Carrier Frequency and Channel

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

Note:

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

2.2 Test Mode

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

Single Mode

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

MIMO Mode

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

TXBF Mode

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

Test Cases	
AC Conducted Emission	Mode 1 : WLAN (5GHz) Link + Bluetooth Link + Rugged Charge/USB Cable + Scanner + without Exoskeleton + Battery 1 + Adapter (SAWA-65-20005A (5V/2.5A)) + Headset Jumper (CBL-TC51-HDST25-01) + Earphone (HDST-25MM-PTVP-01)
Remark: For Radiated Test Cases, the tests were performed with Rugged Charge/USB Cable, Battery 1, Earphone (HDST-25MM-PTVP-01), Headset Jumper (CBL-TC51-HDST25-01), and without Exoskeleton.	

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

<CDD Mode>

<Antenna 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
Duty Cycle (%)		95.31		93.24	92.20	89.31	87.25	81.75	76.40	75.31
CH 149	5745	18.24	CH 157	18.23	18.25	18.25	18.24	18.25	18.22	16.23
CH 157	5785	18.26								
CH 165	5825	18.25								

802.11n HT20 RF Output Power (dBm)											
Power vs. Channel			Power vs Data Rate								
Channel	Frequency (MHz)	MCS Index	channel	MCS Index							
		MCS0		MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
Duty Cycle (%)		94.96		91.04	88.10	84.72	80.93	77.27	74.70	72.73
CH 149	5745	17.63	CH 157	17.54	17.92	17.93	17.85	17.84	17.87	14.93
CH 157	5785	17.94								
CH 165	5825	17.69								

802.11n HT40 RF Output Power (dBm)											
Power vs. Channel			Power vs Data Rate								
Channel	Frequency (MHz)	MCS Index	channel	MCS Index							
		MCS0		MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
Duty Cycle (%)		91.18		86.32	80.77	76.79	69.70	64.91	63.30	62.75
CH 151	5755	16.67	CH 151	16.44	16.53	16.50	16.47	16.43	16.59	13.42
CH 159	5795	16.60								

802.11ac VHT20 RF Output Power (dBm)										
Power vs. Channel			Power vs Data Rate							
Channel	Frequency (MHz)	MCS Index	channel	MCS Index						
		MCS0		MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8
Duty Cycle (%)		95.50		91.11	88.80	86.49	81.11	76.67	75.00	73.89	71.01
CH 149	5745	17.05	CH 157	17.00	17.43	17.43	17.41	17.40	17.40	17.43	14.42
CH 157	5785	17.45									
CH 165	5825	17.15									

802.11ac VHT40 RF Output Power (dBm)										
Power vs. Channel			Power vs Data Rate							
Channel	Frequency (MHz)	MCS Index	channel	MCS Index						
		MCS0		MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8	MCS9
Duty Cycle (%)		92.16		86.01	81.99	76.74	71.64	64.96	62.50	61.54	59.18	58.33
CH 151	5755	16.00	CH 151	15.95	15.82	15.85	15.77	15.67	15.64	15.61	15.80	12.94
CH 159	5795	15.98										

802.11ac VHT80 RF Output Power (dBm)										
Power vs. Channel			Power vs Data Rate							
Channel	Frequency (MHz)	MCS Index	channel	MCS Index						
		MCS0		MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8	MCS9
Duty Cycle (%)		88.24		78.43	75.00	68.75	63.46	57.45	56.82	54.76	53.66	52.50
CH155	5775	16.91	CH155	16.88	16.80	16.86	16.71	16.78	16.75	16.80	16.78	13.65

<Antenna 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
Duty Cycle (%)		95.31		93.90	92.20	89.31	86.27	82.35	76.40	75.61
CH 149	5745	17.12	CH 157	17.07	17.10	17.12	17.12	17.10	17.09	15.11
CH 157	5785	17.13								
CH 165	5825	16.98								

802.11n HT20 RF Output Power (dBm)										
Power vs. Channel			Power vs Data Rate							
Channel	Frequency (MHz)	MCS Index	channel	MCS Index						
		MCS0		MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
Duty Cycle (%)		94.97		91.63	86.61	86.39	81.11	76.14	75.31	73.68
CH 149	5745	17.18	CH 149	17.16	17.17	17.17	17.16	17.08	17.11	14.16
CH 157	5785	16.87								
CH 165	5825	16.92								

802.11n HT40 RF Output Power (dBm)										
Power vs. Channel			Power vs Data Rate							
Channel	Frequency (MHz)	MCS Index	channel	MCS Index						
		MCS0		MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
Duty Cycle (%)		91.18		86.01	81.73	77.65	66.67	64.91	64.22	62.75
CH 151	5755	16.60	CH 151	86.01	81.73	77.65	66.67	64.91	64.22	62.75
CH 159	5795	16.55								

802.11ac VHT20 RF Output Power (dBm)										
Power vs. Channel			Power vs Data Rate							
Channel	Frequency (MHz)	MCS Index	channel	MCS Index						
		MCS0		MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8
Duty Cycle (%)		95.50		91.85	88.80	87.07	82.03	78.33	75.61	75.32	72.46
CH 149	5745	17.17	CH 149	17.12	17.05	17.11	17.08	16.93	17.07	17.03	14.10
CH 157	5785	16.85									
CH 165	5825	16.75									

802.11ac VHT40 RF Output Power (dBm)												
Power vs. Channel			Power vs Data Rate									
Channel	Frequency (MHz)	MCS Index	channel	MCS Index								
		MCS0		MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8	MCS9
Duty Cycle (%)		92.16		85.81	81.90	76.74	71.64	63.93	62.83	61.54	60.42	57.45
CH 151	5755	16.57	CH 151	85.81	81.90	76.74	71.64	63.93	62.83	61.54	60.42	57.45
CH 159	5795	16.53										

802.11ac VHT80 RF Output Power (dBm)												
Power vs. Channel			Power vs Data Rate									
Channel	Frequency (MHz)	MCS Index	channel	MCS Index								
		MCS0		MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8	MCS9
Duty Cycle (%)		88.24		78.22	74.67	70.31	62.26	59.57	56.82	55.81	53.66	50.00
CH155	5775	16.74	CH155	16.69	16.72	16.73	16.66	16.60	16.67	16.73	16.65	13.71

MIMO < Antenna 1+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	19.35	CH 157	19.90	19.93	20.05	19.99	20.04	20.05	18.04
CH 157	5785	20.06								
CH 165	5825	20.02								

802.11n HT20 RF Output Power (dBm)											
Power vs. Channel			Power vs Data Rate								
Channel	Frequency (MHz)	MCS Index	channel	MCS Index							
		MCS0		MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
CH 149	5745	20.17	CH 149	19.89	19.92	19.91	19.81	19.86	19.92	16.90
CH 157	5785	19.93								
CH 165	5825	19.99								

802.11n HT40 RF Output Power (dBm)											
Power vs. Channel			Power vs Data Rate								
Channel	Frequency (MHz)	MCS Index	channel	MCS Index							
		MCS0		MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
CH 151	5755	19.88	CH 151	19.78	19.75	19.58	19.61	19.55	19.59	16.51
CH 159	5795	19.63								

802.11ac VHT20 RF Output Power (dBm)											
Power vs. Channel			Power vs Data Rate								
Channel	Frequency (MHz)	MCS Index	channel	MCS Index							
		MCS0		MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8
CH 149	5745	20.11	CH 149	19.87	19.89	19.88	19.79	19.84	19.86	19.89	16.87
CH 157	5785	19.90									
CH 165	5825	19.94									

802.11ac VHT40 RF Output Power (dBm)											
Power vs. Channel			Power vs Data Rate								
Channel	Frequency (MHz)	MCS Index	channel	MCS Index							
		MCS0		MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8	MCS9
CH 151	5755	19.83	CH 151	19.70	19.65	19.57	19.59	19.49	19.44	19.44	19.63	16.68
CH 159	5795	19.53										

802.11ac VHT80 RF Output Power (dBm)											
Power vs. Channel			Power vs Data Rate								
Channel	Frequency (MHz)	MCS Index	channel	MCS Index							
		MCS0		MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8	MCS9
CH155	5775	19.51	CH155	19.50	19.46	19.49	19.37	19.40	19.35	19.48	19.33	16.41

<TXBF Mode>

MIMO <Antenna 1+2>

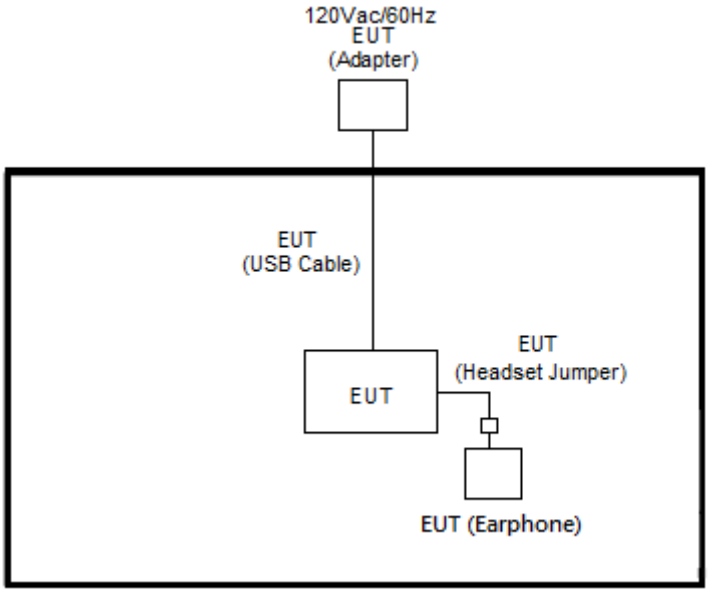
802.11ac VHT20 RF Output Power (dBm)											
Power vs. Channel			Power vs Data Rate								
Channel	Frequency (MHz)	MCS Index	channel	MCS Index							
		MCS0		MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8
CH 149	5745	19.88	CH 165	19.72	19.82	19.82	19.82	19.72	19.82	19.82	16.82
CH 157	5785	19.82									
CH 165	5825	19.92									

802.11ac VHT40 RF Output Power (dBm)											
Power vs. Channel			Power vs Data Rate								
Channel	Frequency (MHz)	MCS Index	channel	MCS Index							
		MCS0		MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8	MCS9
CH 151	5755	19.66	CH 151	19.56	19.51	19.51	19.56	19.51	19.51	19.56	19.56	16.56
CH 159	5795	19.51										

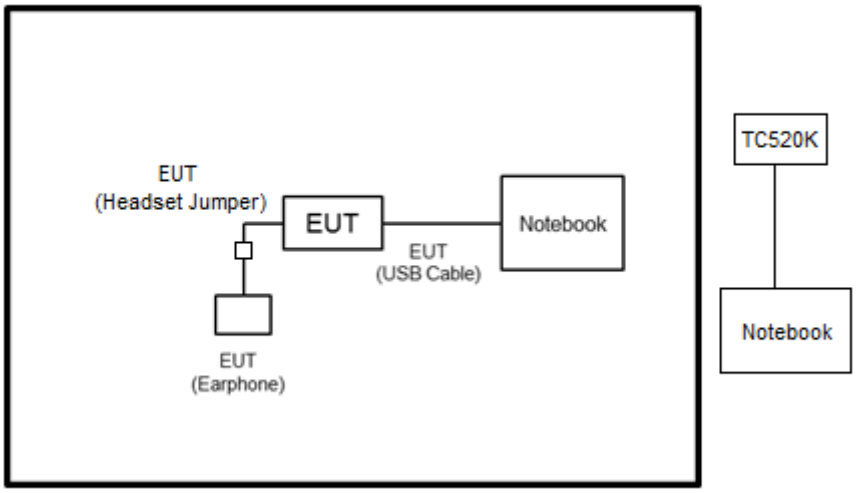
802.11ac VHT80 RF Output Power (dBm)											
Power vs. Channel			Power vs Data Rate								
Channel	Frequency (MHz)	MCS Index	channel	MCS Index							
		MCS0		MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8	MCS9
CH155	5775	19.61	CH155	19.51	19.47	19.46	19.51	19.47	19.46	19.51	19.51	16.51

2.3 Connection Diagram of Test System

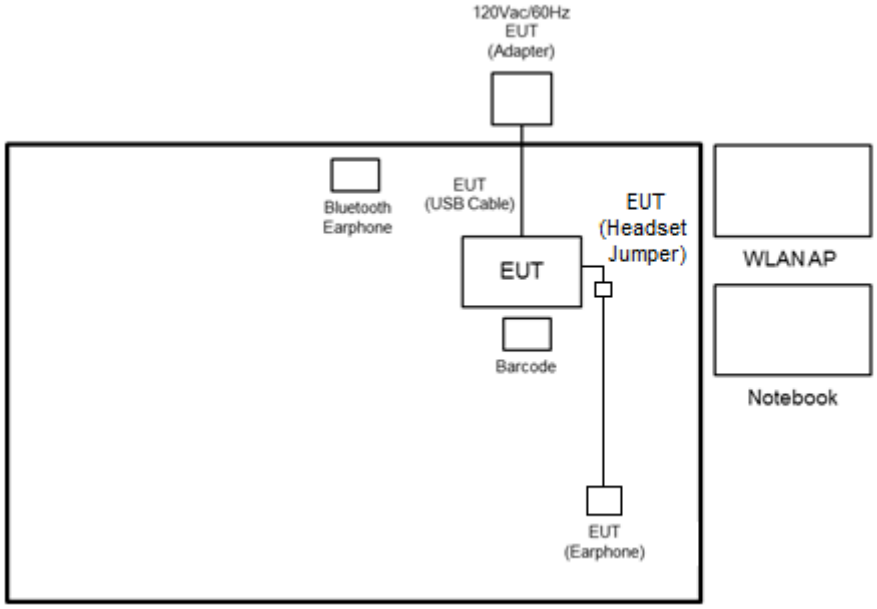
<CDD Mode>



<TXBF Mode>



<AC Conducted Emission Mode>



2.4 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	System Simulator	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m
2.	Bluetooth Earphone	Sony Ericsson	MW600	PY7DDA-2029	N/A	N/A
3.	WLAN AP	ASUS	RT-AC66U	MSQ-RTAC66U	N/A	Unshielded, 1.8 m
4.	Notebook	DELL	Latitude E6320	FCC DoC/ Contains FCC ID: QDS-BRCM1054	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
5.	Notebook -01	Lenovo	E335	N/A	N/A	N/A
6.	Notebook -40	Lenovo	E335	N/A	N/A	N/A
7.	SD Card	SanDisk	MicroSD HC	FCC DoC	N/A	N/A

2.5 EUT Operation Test Setup

<CDD Mode>

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

<TXBF Mode>

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

2.6 Measurement Results Explanation Example

For all conducted test items:

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

Example :

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

Offset = RF cable loss + attenuator factor.

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

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.

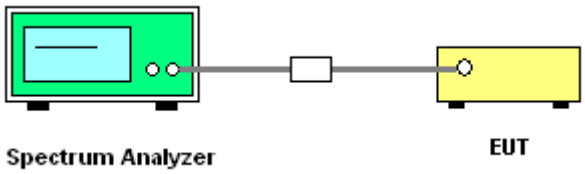
3.1.2 Measuring Instruments

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



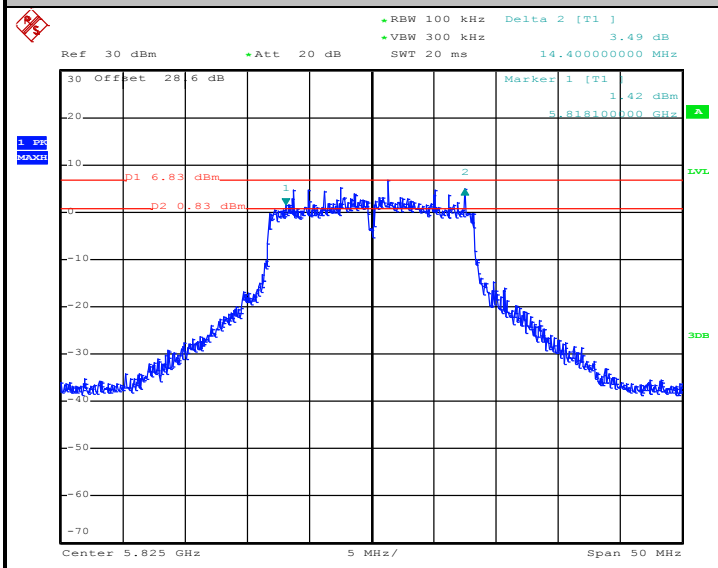
3.1.5 Test Result

Test Engineer :	Derek Hsu, Kai Liao, Shiming Liu, and Bill Kuo	Temperature :	21~25℃
		Relative Humidity :	51~54%

<CDD Mode>

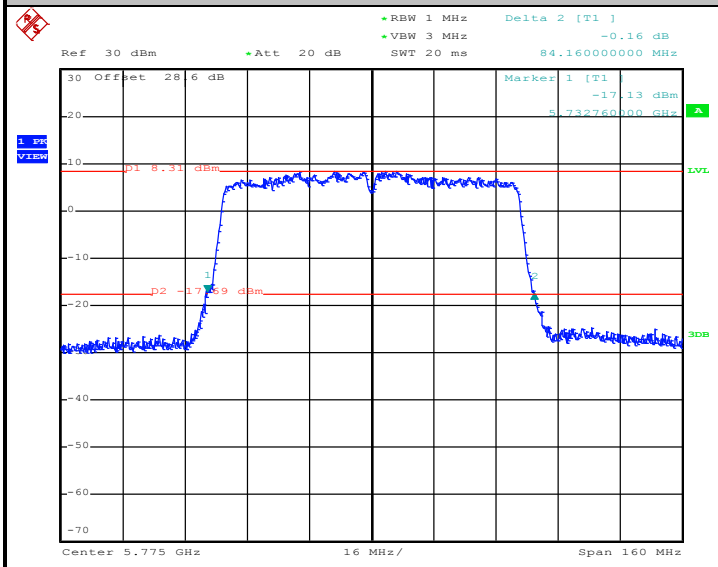
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth (MHz)		26dB Bandwidth (MHz)		6 dB Bandwidth (MHz)		6 dB Bandwidth Min. Limit (MHz)	Pass/Fail
					Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	1	149	5745	16.85	16.90	25.90	25.90	15.00	15.30	0.5	Pass
11a	6Mbps	1	157	5785	16.80	16.80	26.05	25.70	15.50	15.10	0.5	Pass
11a	6Mbps	1	165	5825	16.90	16.80	25.85	25.20	15.40	14.40	0.5	Pass
HT20	MCS0	1	149	5745	17.95	18.15	26.40	29.05	16.80	15.45	0.5	Pass
HT20	MCS0	1	157	5785	17.95	17.95	26.50	26.30	15.95	16.50	0.5	Pass
HT20	MCS0	1	165	5825	17.95	18.00	27.20	26.40	16.15	15.10	0.5	Pass
HT40	MCS0	1	151	5755	36.50	36.70	41.89	41.94	35.10	36.00	0.5	Pass
HT40	MCS0	1	159	5795	36.60	36.60	41.76	42.02	34.92	35.02	0.5	Pass
VHT80	MCS0	1	155	5775	76.68	76.92	83.76	83.84	75.20	75.20	0.5	Pass
11a	6Mbps	2	149	5745	16.85	16.85	25.20	26.70	15.10	15.40	0.5	Pass
11a	6Mbps	2	157	5785	16.80	16.75	24.90	24.90	15.00	15.10	0.5	Pass
11a	6Mbps	2	165	5825	16.75	16.70	25.75	25.25	15.00	15.05	0.5	Pass
HT20	MCS0	2	149	5745	18.00	18.00	26.20	28.85	15.10	15.45	0.5	Pass
HT20	MCS0	2	157	5785	17.90	17.85	26.00	25.60	16.75	15.90	0.5	Pass
HT20	MCS0	2	165	5825	17.95	17.85	26.50	25.90	15.00	15.10	0.5	Pass
HT40	MCS0	2	151	5755	36.70	36.70	41.83	41.94	35.08	35.28	0.5	Pass
HT40	MCS0	2	159	5795	36.70	36.60	41.76	42.12	35.00	35.10	0.5	Pass
VHT80	MCS0	2	155	5775	76.92	76.80	84.16	82.56	75.20	73.92	0.5	Pass

Minimum 6dB Bandwidth



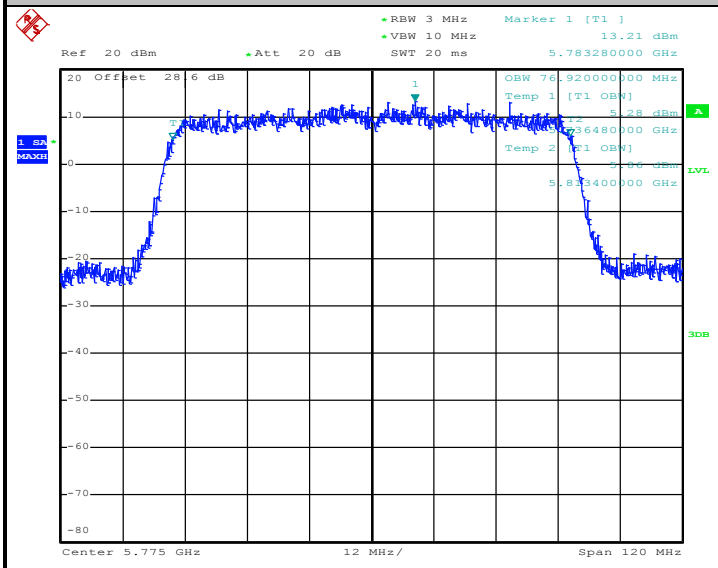
Date: 15.AUG.2018 01:19:24

Maximum 26dB Bandwidth



Date: 15.AUG.2018 03:32:32

Maximum 99% Occupied Bandwidth

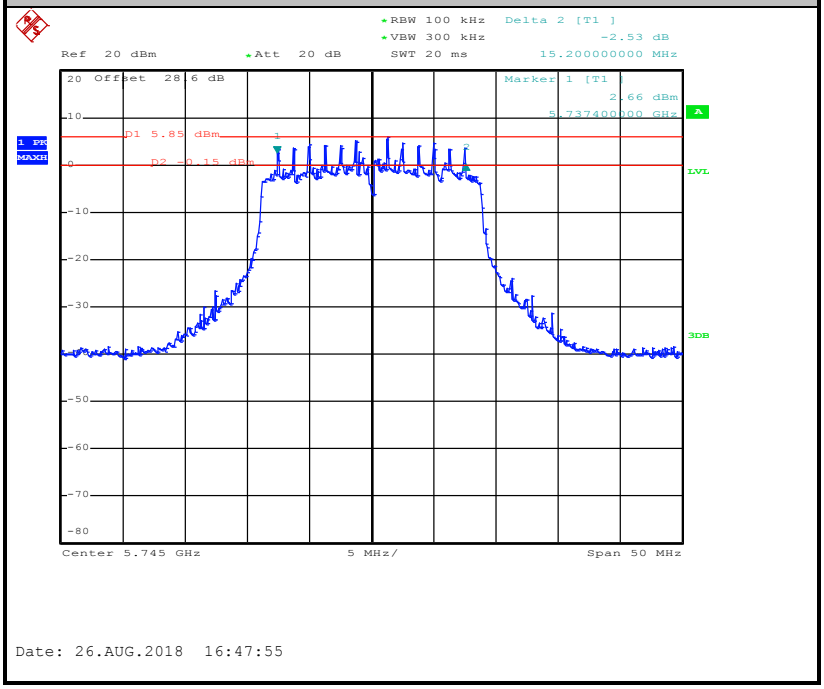


Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

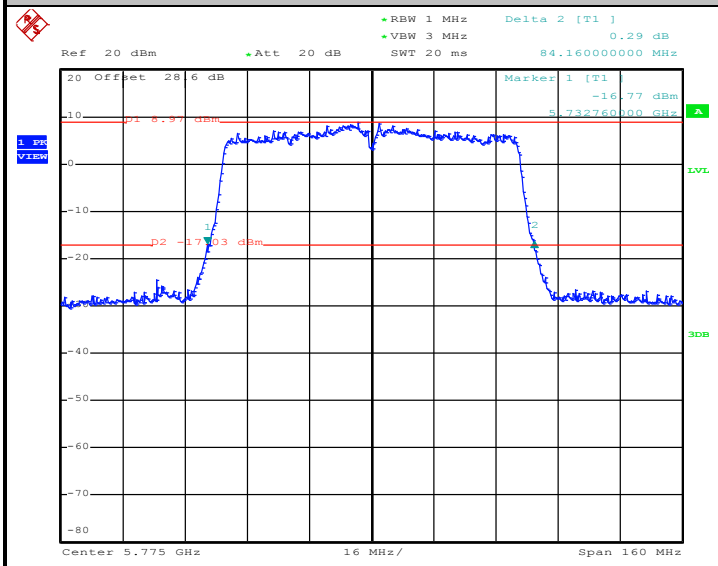
<TXBF Mode>

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	5745	17.75	18.90	24.40	28.70	15.20	17.60	0.5	Pass
VHT20	MCS0	2	157	5785	17.75	18.85	23.80	27.60	15.20	17.60	0.5	Pass
VHT20	MCS0	2	165	5825	17.70	18.80	23.90	27.80	15.20	17.60	0.5	Pass
VHT40	MCS0	2	151	5755	36.60	36.60	41.94	42.48	35.28	36.36	0.5	Pass
VHT40	MCS0	2	159	5795	36.70	36.70	41.94	42.12	35.26	36.36	0.5	Pass
VHT80	MCS0	2	155	5775	76.92	77.04	82.88	84.16	71.36	76.16	0.5	Pass

Minimum 6dB Bandwidth

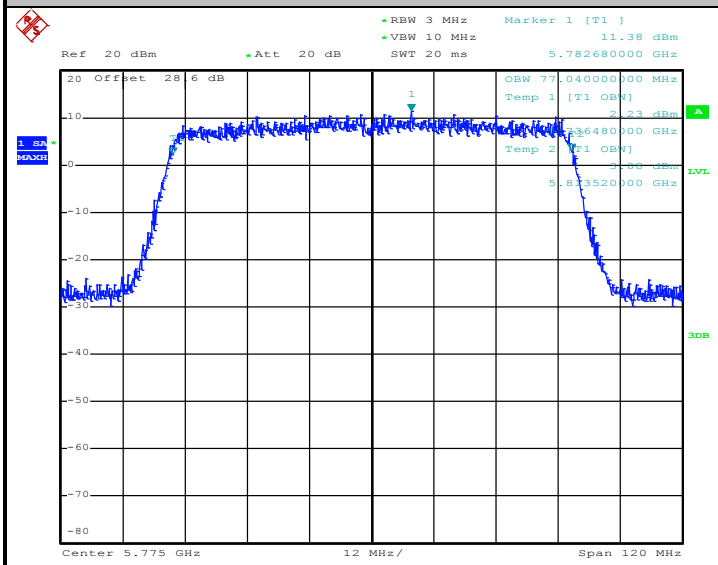


Maximum 26dB Bandwidth



Date: 26.AUG.2018 14:11:47

Maximum 99% Occupied Bandwidth



Date: 26.AUG.2018 15:54:20

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

<CDD Modes>

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

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

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

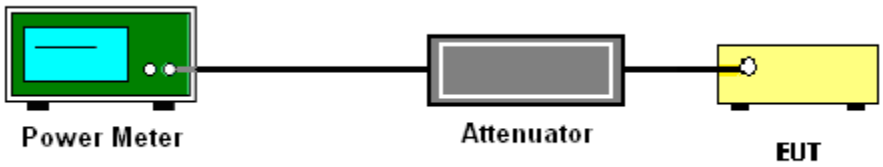
<TXBF Modes>

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

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 :	Derek Hsu, Kai Liao, Shiming Liu, and Bill Kuo	**Temperature :**	21~25℃
		Relative Humidity :	51~54%

<CDD Mode>

Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		Pass/Fail
					Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	1	149	5745	0.21	0.21	18.24	17.12		30.00	30.00	3.00	2.80	Pass
11a	6Mbps	1	157	5785	0.21	0.21	18.26	17.13		30.00	30.00	3.00	2.80	Pass
11a	6Mbps	1	165	5825	0.21	0.21	18.25	16.98		30.00	30.00	3.00	2.80	Pass
HT20	MCS0	1	149	5745	0.22	0.22	17.63	17.18		30.00	30.00	3.00	2.80	Pass
HT20	MCS0	1	157	5785	0.22	0.22	17.94	16.87		30.00	30.00	3.00	2.80	Pass
HT20	MCS0	1	165	5825	0.22	0.22	17.69	16.92		30.00	30.00	3.00	2.80	Pass
HT40	MCS0	1	151	5755	0.40	0.40	16.67	16.60		30.00	30.00	3.00	2.80	Pass
HT40	MCS0	1	159	5795	0.40	0.40	16.60	16.55	-	30.00	30.00	3.00	2.80	Pass
VHT20	MCS0	1	149	5745	0.20	0.20	17.05	17.17		30.00	30.00	3.00	2.80	Pass
VHT20	MCS0	1	157	5785	0.20	0.20	17.45	16.85		30.00	30.00	3.00	2.80	Pass
VHT20	MCS0	1	165	5825	0.20	0.20	17.15	16.75		30.00	30.00	3.00	2.80	Pass
VHT40	MCS0	1	151	5755	0.35	0.35	16.00	16.57		30.00	30.00	3.00	2.80	Pass
VHT40	MCS0	1	159	5795	0.35	0.35	15.98	16.53		30.00	30.00	3.00	2.80	Pass
VHT80	MCS0	1	155	5775	0.54	0.54	16.91	16.74		30.00	30.00	3.00	2.80	Pass
11a	6Mbps	2	149	5745	0.19	0.19	16.57	16.11	19.35	30.00		3.00		Pass
11a	6Mbps	2	157	5785	0.19	0.19	17.21	16.89	20.06	30.00		3.00		Pass
11a	6Mbps	2	165	5825	0.19	0.19	17.20	16.81	20.02	30.00		3.00		Pass
HT20	MCS0	2	149	5745	0.20	0.20	17.21	17.10	20.17	30.00		3.00		Pass
HT20	MCS0	2	157	5785	0.20	0.20	17.07	16.77	19.93	30.00		3.00		Pass
HT20	MCS0	2	165	5825	0.20	0.20	17.10	16.85	19.99	30.00		3.00		Pass
HT40	MCS0	2	151	5755	0.40	0.40	17.00	16.73	19.88	30.00		3.00		Pass
HT40	MCS0	2	159	5795	0.40	0.40	16.88	16.33	19.63	30.00		3.00		Pass
VHT20	MCS0	2	149	5745	0.20	0.20	17.16	17.04	20.11	30.00		3.00		Pass
VHT20	MCS0	2	157	5785	0.20	0.20	17.02	16.75	19.90	30.00		3.00		Pass
VHT20	MCS0	2	165	5825	0.20	0.20	17.05	16.80	19.94	30.00		3.00		Pass
VHT40	MCS0	2	151	5755	0.40	0.40	16.95	16.70	19.83	30.00		3.00		Pass
VHT40	MCS0	2	159	5795	0.40	0.40	16.80	16.23	19.53	30.00		3.00		Pass
VHT80	MCS0	2	155	5775	0.54	0.54	16.57	16.43	19.51	30.00		3.00		Pass

<TXBF Mode>

Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		Pass/Fail
					Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
VHT20	MCS0	2	149	5745	0.00	0.00	16.40	17.30	19.88	30.00		5.91		Pass
VHT20	MCS0	2	157	5785	0.00	0.00	16.50	17.10	19.82	30.00		5.91		Pass
VHT20	MCS0	2	165	5825	0.00	0.00	16.60	17.20	19.92	30.00		5.91		Pass
VHT40	MCS0	2	151	5755	0.00	0.00	16.60	16.70	19.66	30.00		5.91		Pass
VHT40	MCS0	2	159	5795	0.00	0.00	16.50	16.50	19.51	30.00		5.91		Pass
VHT80	MCS0	2	155	5775	0.00	0.00	16.80	16.40	19.61	30.00		5.91		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 = 300 kHz.
- Set VBW ≥ 1 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(500kHz/RBW) to the test result.
- Add 10 log(1/x), where x is the duty cycle, to the measured power in order to compute the average power during the actual transmission times. For example, add 10 log(1/0.25) = 6 dB if the duty cycle is 25 percent.

<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 = 300 kHz.
- Set VBW ≥ 1 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

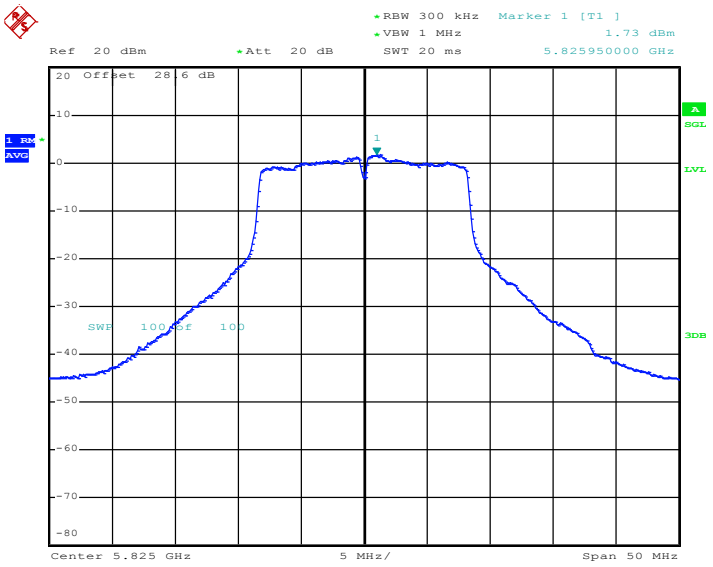
3.3.5 Test Result of Power Spectral Density

Test Engineer :	Derek Hsu, Kai Liao, Shiming Liu, and Bill Kuo	Temperature :	21~25℃
		Relative Humidity :	51~54%

<CDD Modes>

Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		10log (500kHz /RBW) Factor (dB)		Average Power Density (dBm/500kHz)			Average PSD Limit (dBm/500kHz)		DG (dBi)		Pass /Fail
					Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	1	149	5745	0.21	0.21	2.22	2.22	3.09	1.54		30.00	30.00	3.00	2.80	Pass
11a	6Mbps	1	157	5785	0.21	0.21	2.22	2.22	2.42	1.69		30.00	30.00	3.00	2.80	Pass
11a	6Mbps	1	165	5825	0.21	0.21	2.22	2.22	2.67	1.15		30.00	30.00	3.00	2.80	Pass
HT20	MCS0	1	149	5745	0.22	0.22	2.22	2.22	1.25	1.61		30.00	30.00	3.00	2.80	Pass
HT20	MCS0	1	157	5785	0.22	0.22	2.22	2.22	1.97	0.57	-	30.00	30.00	3.00	2.80	Pass
HT20	MCS0	1	165	5825	0.22	0.22	2.22	2.22	1.21	0.74		30.00	30.00	3.00	2.80	Pass
HT40	MCS0	1	151	5755	0.40	0.40	2.22	2.22	-2.78	-2.28		30.00	30.00	3.00	2.80	Pass
HT40	MCS0	1	159	5795	0.40	0.40	2.22	2.22	-2.46	-2.96		30.00	30.00	3.00	2.80	Pass
VHT80	MCS0	1	155	5775	0.54	0.54	2.22	2.22	-5.35	-5.37		30.00	30.00	3.00	2.80	Pass
11a	6Mbps	2	149	5745	0.19	0.19	2.22		0.84	0.76	6.07	30.00		5.91		Pass
11a	6Mbps	2	157	5785	0.19	0.19	2.22		1.71	1.64	6.94	30.00		5.91		Pass
11a	6Mbps	2	165	5825	0.19	0.19	2.22		1.92	1.56	7.15	30.00		5.91		Pass
HT20	MCS0	2	149	5745	0.20	0.20	2.22		1.56	1.83	7.06	30.00		5.91		Pass
HT20	MCS0	2	157	5785	0.20	0.20	2.22		1.15	1.08	6.38	30.00		5.91		Pass
HT20	MCS0	2	165	5825	0.20	0.20	2.22		1.30	0.95	6.53	30.00		5.91		Pass
HT40	MCS0	2	151	5755	0.40	0.40	2.22		-1.95	-2.02	3.28	30.00		5.91		Pass
HT40	MCS0	2	159	5795	0.40	0.40	2.22		-2.20	-2.44	3.03	30.00		5.91		Pass
VHT80	MCS0	2	155	5775	0.54	0.54	2.22		-5.10	-5.76	0.13	30.00		5.91		Pass

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



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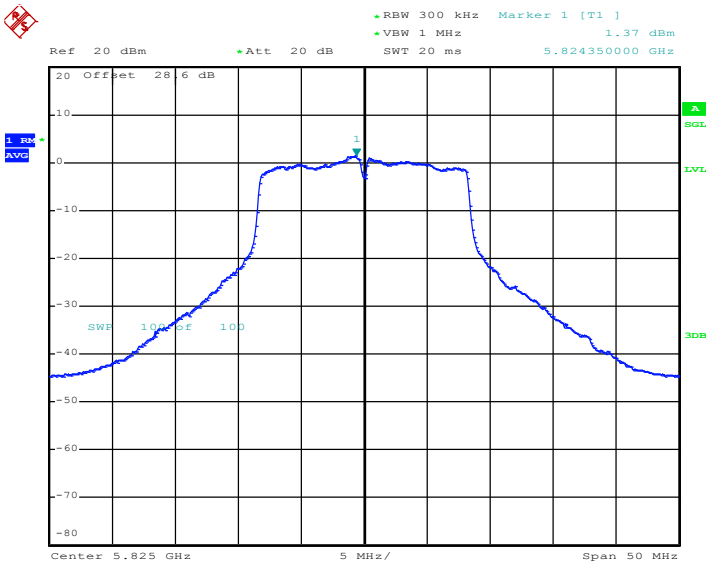
Worst Case Power Density (dBm/MHz) for MIMO Ant. 2



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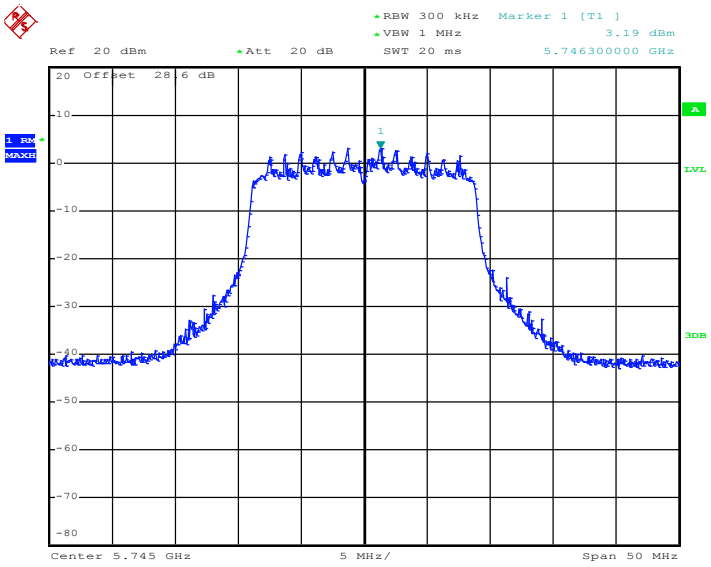
<TXBF Modes>

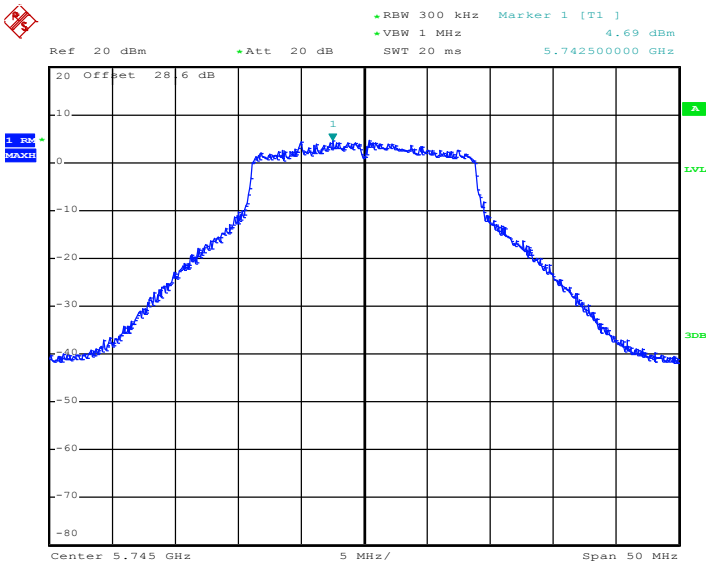
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		10log (500kHz /RBW) Factor (dB)		Average Power Density (dBm/500kHz)			Average PSD Limit (dBm/500kHz)		DG (dBi)		Pass /Fail
					Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
VHT20	MCS0	2	149	5745	0.00	0.00	2.22		5.41	6.91	9.92	30.00		5.91		Pass
VHT20	MCS0	2	157	5785	0.00	0.00	2.22		5.80	6.36	9.37	30.00		5.91		Pass
VHT20	MCS0	2	165	5825	0.00	0.00	2.22		5.71	6.27	9.28	30.00		5.91		Pass
VHT40	MCS0	2	151	5755	0.00	0.00	2.22		2.57	2.88	5.89	30.00		5.91		Pass
VHT40	MCS0	2	159	5795	0.00	0.00	2.22		3.41	2.81	6.42	30.00		5.91		Pass
VHT80	MCS0	2	155	5775	0.00	0.00	2.22		-0.12	-0.46	2.89	30.00		5.91		Pass

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



Date: 26.AUG.2018 16:48:52

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



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

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

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

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

3.4.2 Measuring Instruments

See list of measuring equipment of this test report.

3.4.3 Test Procedures

1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01. Section G) Unwanted emissions measurement.

(1) Procedure for Unwanted Emissions Measurements Below 1000MHz

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

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

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

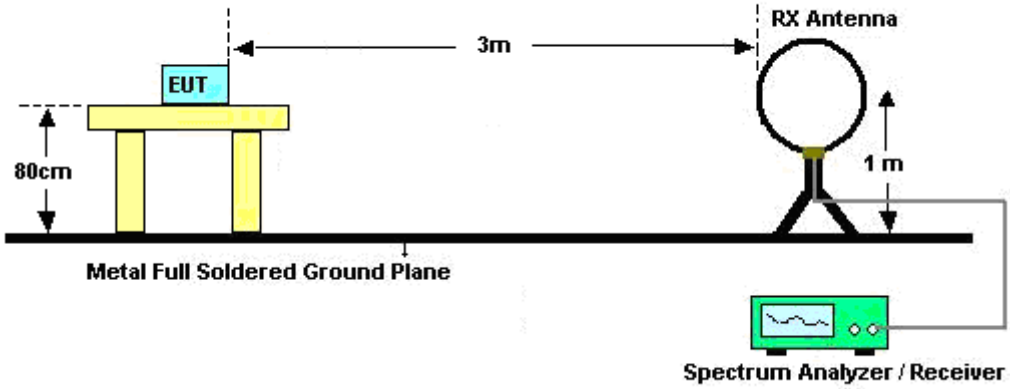
(3) Procedures for Average Unwanted Emissions Measurements Above 1000MHz

- RBW = 1 MHz
- VBW = 10 Hz, when duty cycle is no less than 98 percent.
- VBW ≥ 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.

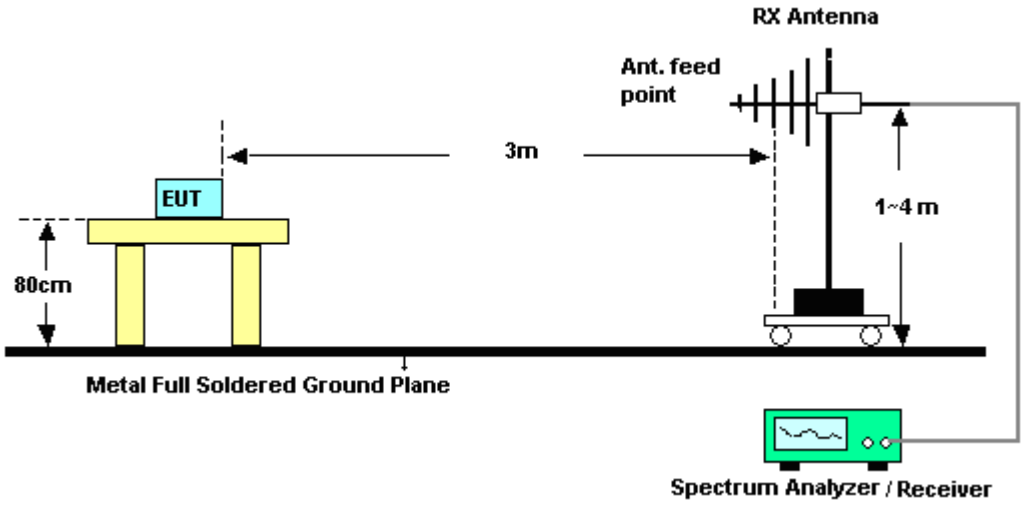
3.4.4 Test Setup

For radiated emissions below 30MHz

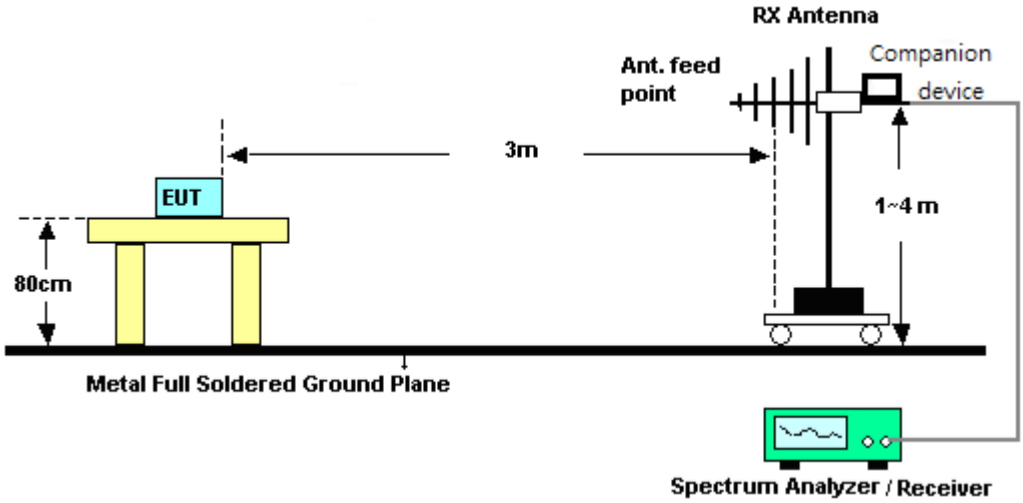


For radiated emissions from 30MHz to 1GHz

<CDD Mode>

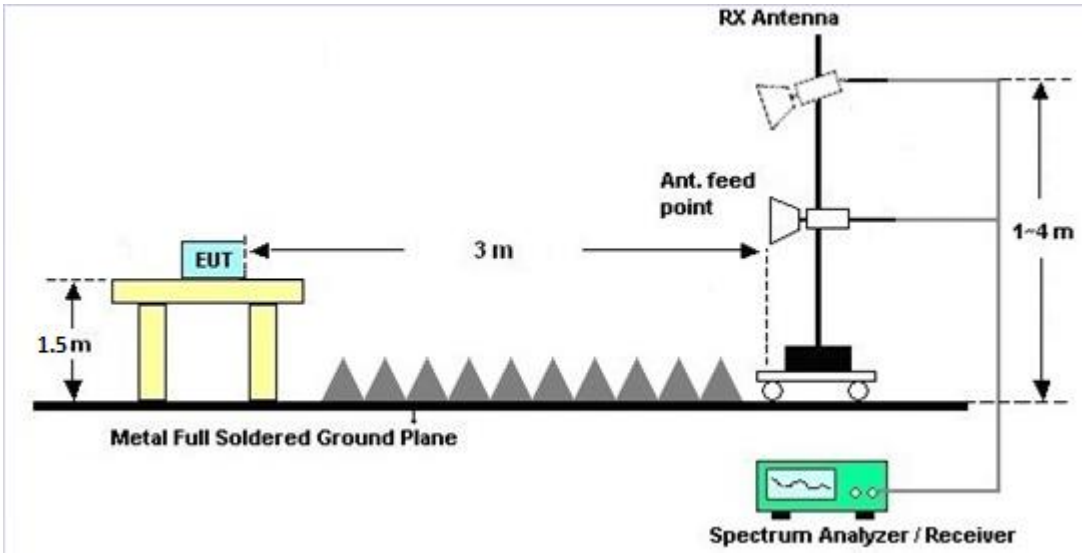


<TXBF Modes>

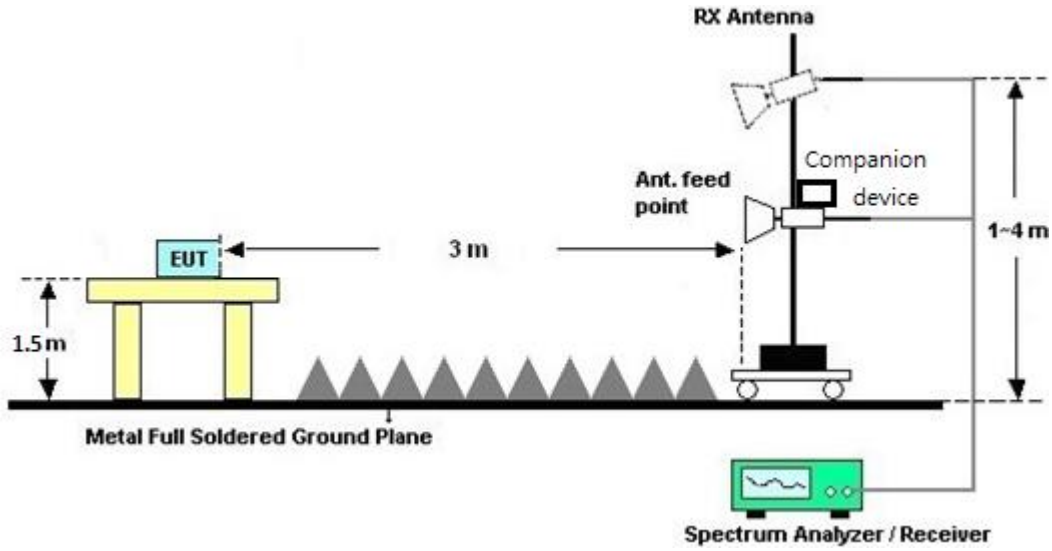


For radiated emissions above 1GHz

<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 semi-Anechoic chamber, 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.

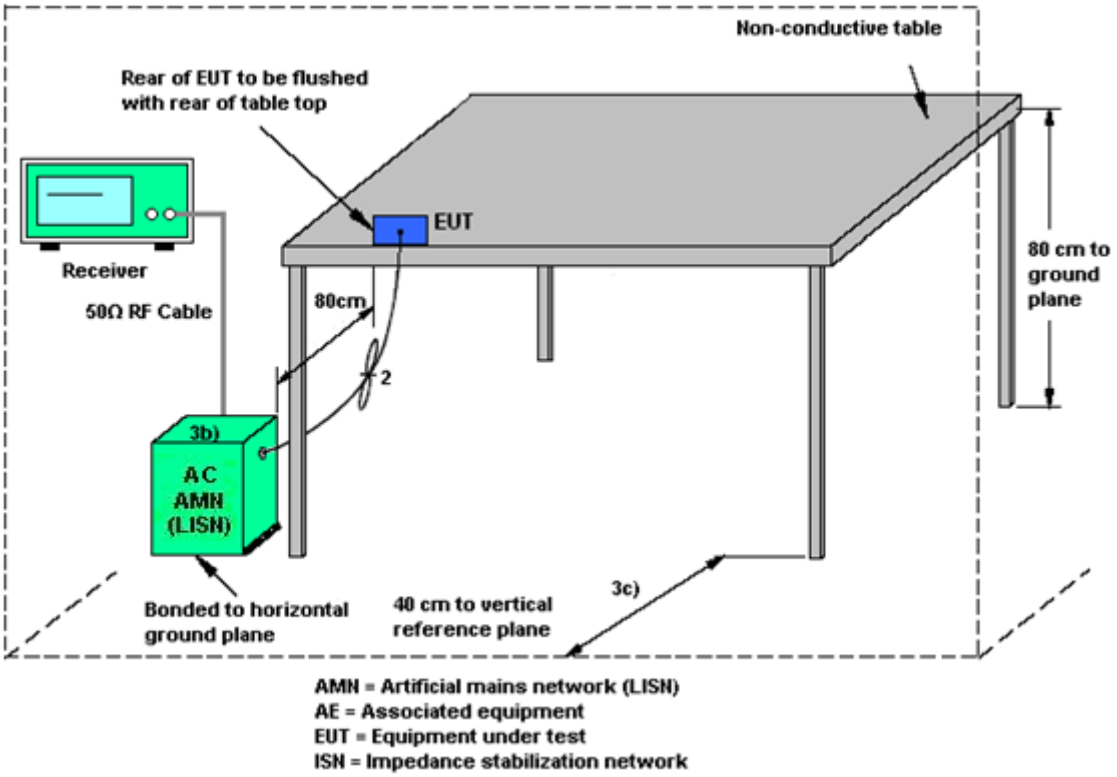
3.5.2 Measuring Instruments

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



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	3.00	2.80	3.00	5.91	0.00	0.00

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	3.00	2.80	5.91	5.91	0.00	0.00

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

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

4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Power Meter	Anritsu	ML2495A	0932001	N/A	Sep. 26, 2017	Jul. 10, 2018~ Aug. 29, 2018	Sep. 25, 2018	Conducted (TH05-HY)
Power Sensor	Anritsu	MA2411B	0846202	300MHz~40GHz	Sep. 26, 2017	Jul. 10, 2018~ Aug. 29, 2018	Sep. 25, 2018	Conducted (TH05-HY)
Spectrum Analyzer	Rohde & Schwarz	FSP30	101067	9kHz ~ 30GHz	Nov. 13, 2017	Jul. 10, 2018~ Aug. 29, 2018	Nov. 12, 2018	Conducted (TH05-HY)
Switch Box & RF Cable	Burgeon	ETF-058	EC1300484	N/A	Mar. 01, 2018	Jul. 10, 2018~ Aug. 29, 2018	Feb. 28, 2019	Conducted (TH05-HY)
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Jul. 17, 2018	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102388	3.6GHz	Dec. 08, 2017	Jul. 17, 2018	Dec. 07, 2018	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100080	9kHz~30MHz	Nov. 30, 2017	Jul. 17, 2018	Nov. 29, 2018	Conduction (CO05-HY)
Software	Rohde & Schwarz	EMC32 V10.30	N/A	N/A	N/A	Jul. 17, 2018	N/A	Conduction (CO05-HY)
LF Cable	HUBER + SUHNER	RG-214/U	LF01	N/A	Jan. 03, 2018	Jul. 17, 2018	Jan. 02, 2019	Conduction (CO05-HY)
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100851	N/A	Jan. 03, 2018	Jul. 17, 2018	Jan. 02, 2019	Conduction (CO05-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100488	9 kHz~30 MHz	Nov. 23, 2017	Aug. 02, 2018 ~ Aug. 27, 2018	Nov. 22, 2018	Radiation (03CH12-HY)
Bilog Antenna	TESEQ	CBL 6111D&00800N1D01N-06	37059&01	30MHz~1GHz	Oct. 14, 2017	Aug. 02, 2018 ~ Aug. 27, 2018	Oct. 13, 2018	Radiation (03CH12-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120D	9120D-1328	1GHz ~ 18GHz	Oct. 20, 2017	Aug. 02, 2018 ~ Aug. 27, 2018	Oct. 19, 2018	Radiation (03CH12-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170584	18GHz ~ 40GHz	Nov. 27, 2017	Aug. 02, 2018 ~ Aug. 27, 2018	Nov. 26, 2018	Radiation (03CH12-HY)
Preamplifier	COM-POWER	PA-103	161075	10MHz~1GHz	Mar. 26, 2018	Aug. 02, 2018 ~ Aug. 27, 2018	Mar. 25, 2019	Radiation (03CH12-HY)
Preamplifier	Keysight	83017A	MY53270148	1GHz~26.5GHz	Jan. 15, 2018	Aug. 02, 2018 ~ Aug. 27, 2018	Jan. 14, 2019	Radiation (03CH12-HY)
Preamplifier	MITEQ	AMF-7D-00101800-30-10P	1590074	1GHz~18GHz	May 21, 2018	Aug. 02, 2018 ~ Aug. 27, 2018	May 20, 2019	Radiation (03CH12-HY)
Preamplifier	EMEC	EM18G40G	060715	18GHz ~ 40GHz	Dec. 05, 2017	Aug. 02, 2018 ~ Aug. 27, 2018	Dec. 04, 2018	Radiation (03CH12-HY)
EMI Test Receiver	Rohde & Schwarz	ESU26	100390	20Hz~26.5GHz	Dec. 25, 2017	Aug. 02, 2018 ~ Aug. 27, 2018	Dec. 24, 2018	Radiation (03CH12-HY)
Spectrum Analyzer	Keysight	N9010A	MY54200485	10Hz ~ 44GHz	Oct. 31, 2017	Aug. 02, 2018 ~ Aug. 27, 2018	Oct. 30, 2018	Radiation (03CH12-HY)
Filter	Woken	WHKX8-5272.5-6750-18000-40ST	SN2	6.75G Highpass	Mar. 21, 2018	Aug. 02, 2018 ~ Aug. 27, 2018	Mar. 20, 2019	Radiation (03CH12-HY)
Filter	Wainwright	WLJ4-1000-1530-6000-40ST	SN3	1.53 GHz Lowpass	Mar. 21, 2018	Aug. 02, 2018 ~ Aug. 27, 2018	Mar. 20, 2019	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY15539/4	30M-18G	Mar. 14, 2018	Aug. 02, 2018 ~ Aug. 27, 2018	Mar. 13, 2019	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	505134/2	30M~40GHz	Oct. 17, 2017	Aug. 02, 2018 ~ Aug. 27, 2018	Oct. 16, 2018	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	800740/2	30M~40GHz	Oct. 17, 2017	Aug. 02, 2018 ~ Aug. 27, 2018	Oct. 16, 2018	Radiation (03CH12-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1m~4m	N/A	Aug. 02, 2018 ~ Aug. 27, 2018	N/A	Radiation (03CH12-HY)
Turn Table	EMEC	TT2000	N/A	0~360 Degree	N/A	Aug. 02, 2018 ~ Aug. 27, 2018	N/A	Radiation (03CH12-HY)
Software	Audix	E3 6.2009-8-24	RK-000989	N/A	N/A	Aug. 02, 2018 ~ Aug. 27, 2018	N/A	Radiation (03CH12-HY)

5 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**2.7**

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**5.1**

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

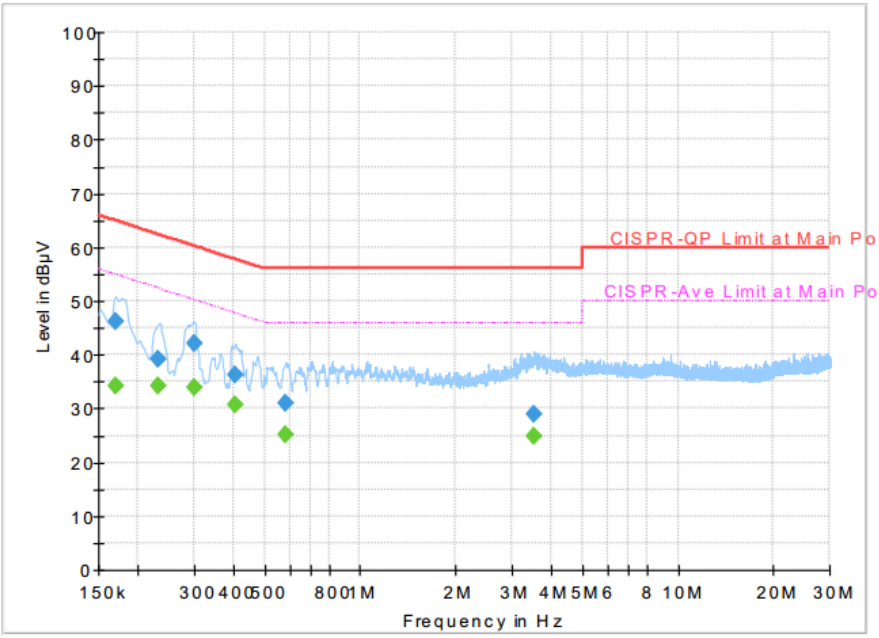
Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**5.2**

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

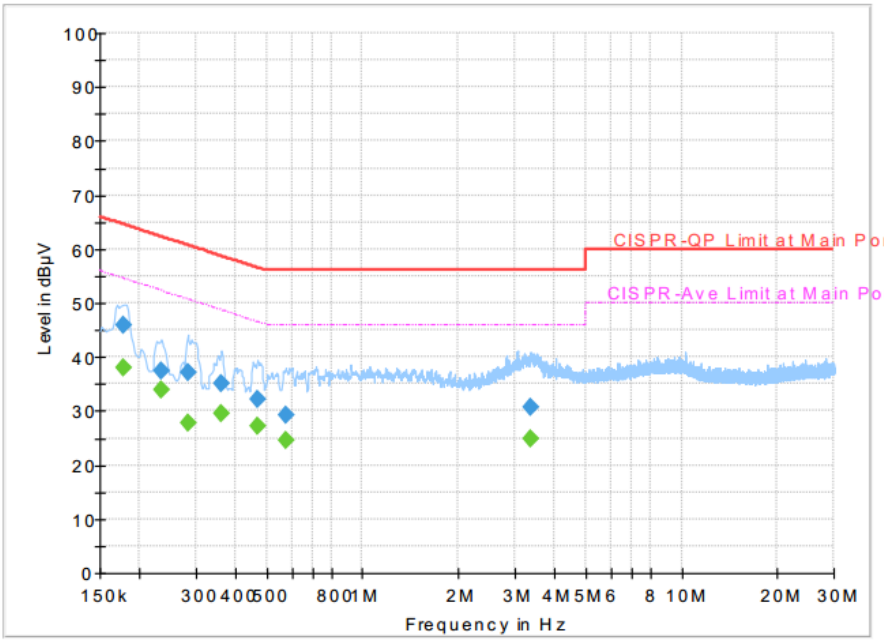
Test Engineer :	Kai-Chun Chu	**Temperature :**	25~27℃
		Relative Humidity :	50~52%
Test Voltage :	120Vac / 60Hz	**Phase :**	Line



Final Result

Frequency (MHz)	QuasiPeak (dBµV)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Line	Filter	Corr. (dB)
0.170250	---	34.17	54.95	20.78	L1	OFF	19.5
0.170250	46.29	---	64.95	18.66	L1	OFF	19.5
0.231000	---	34.25	52.41	18.16	L1	OFF	19.5
0.231000	39.15	---	62.41	23.26	L1	OFF	19.5
0.300750	---	33.78	50.22	16.44	L1	OFF	19.5
0.300750	42.10	---	60.22	18.12	L1	OFF	19.5
0.406500	---	30.58	47.72	17.14	L1	OFF	19.5
0.406500	36.34	---	57.72	21.38	L1	OFF	19.5
0.582000	---	25.19	46.00	20.81	L1	OFF	19.5
0.582000	30.99	---	56.00	25.01	L1	OFF	19.5
3.518250	---	24.99	46.00	21.01	L1	OFF	19.7
3.518250	29.02	---	56.00	26.98	L1	OFF	19.7

Test Engineer :	Kai-Chun Chu	Temperature :	25~27℃
		Relative Humidity :	50~52%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral



Final Result

Frequency (MHz)	QuasiPeak (dBµV)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Line	Filter	Corr. (dB)
0.177000	---	38.13	54.63	16.50	N	OFF	19.5
0.177000	45.99	---	64.63	18.64	N	OFF	19.5
0.233250	---	33.90	52.33	18.43	N	OFF	19.5
0.233250	37.51	---	62.33	24.82	N	OFF	19.5
0.282750	---	27.83	50.74	22.91	N	OFF	19.5
0.282750	37.14	---	60.74	23.60	N	OFF	19.5
0.361500	---	29.39	48.69	19.30	N	OFF	19.5
0.361500	35.05	---	58.69	23.64	N	OFF	19.5
0.469500	---	27.22	46.52	19.30	N	OFF	19.5
0.469500	32.28	---	56.52	24.24	N	OFF	19.5
0.575250	---	24.57	46.00	21.43	N	OFF	19.5
0.575250	29.34	---	56.00	26.66	N	OFF	19.5
3.374250	---	24.84	46.00	21.16	N	OFF	19.7
3.374250	30.73	---	56.00	25.27	N	OFF	19.7

Appendix B. Radiated Spurious Emission

Test Engineer :	Jack Cheng, Lance Chiang, and Peter Liao	Temperature :	22~25°C
		Relative Humidity :	53~67%

<CDD Mode>

Band 4 - 5725~5850MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI Ant.	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		5639.6	54.89	-13.31	68.2	43.47	32.19	10.45	31.22	100	53	P	H
		5698.2	64.74	-39.13	103.87	53.22	32.27	10.5	31.25	100	53	P	H
		5714.6	67.71	-41.58	109.29	56.17	32.29	10.51	31.26	100	53	P	H
		5725	77.43	-44.77	122.2	65.86	32.31	10.52	31.26	100	53	P	H
	*	5745	113.49	-	-	101.88	32.34	10.54	31.27	100	53	P	H
	*	5745	102.85	-	-	91.24	32.34	10.54	31.27	100	53	A	H
													H
													H
		5647.6	55.26	-12.94	68.2	43.83	32.19	10.46	31.22	102	348	P	V
		5697.2	64.89	-38.25	103.14	53.37	32.27	10.5	31.25	102	348	P	V
		5712.4	67.05	-41.62	108.67	55.51	32.29	10.51	31.26	102	348	P	V
		5725	76.83	-45.37	122.2	65.26	32.31	10.52	31.26	102	348	P	V
	*	5745	113.22	-	-	101.61	32.34	10.54	31.27	102	348	P	V
	*	5745	102.61	-	-	91	32.34	10.54	31.27	102	348	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)
		5644.8	53.68	-14.52	68.2	42.25	32.19	10.46	31.22	104	61	P	H
		5697	55.1	-47.89	102.99	43.58	32.27	10.5	31.25	104	61	P	H
		5718.6	58.81	-51.6	110.41	47.25	32.31	10.51	31.26	104	61	P	H
		5724.2	58.8	-61.58	120.38	47.23	32.31	10.52	31.26	104	61	P	H
	*	5785	114.36	-	-	102.69	32.39	10.57	31.29	104	61	P	H
	*	5785	102.92	-	-	91.25	32.39	10.57	31.29	104	61	A	H
		5852.6	59.3	-56.97	116.27	47.52	32.48	10.62	31.32	104	61	P	H
		5855.2	58.32	-52.42	110.74	46.51	32.51	10.62	31.32	104	61	P	H
		5876	55.29	-49.17	104.46	43.45	32.53	10.64	31.33	104	61	P	H
		5940.8	55.5	-12.7	68.2	43.55	32.63	10.69	31.37	104	61	P	H
													H
802.11a CH 157 5785MHz													H
		5640	54.79	-13.41	68.2	43.37	32.19	10.45	31.22	100	359	P	V
		5697.4	55.5	-47.78	103.28	43.98	32.27	10.5	31.25	100	359	P	V
		5720	58.57	-52.23	110.8	47	32.31	10.52	31.26	100	359	P	V
		5722.8	60.13	-57.05	117.18	48.56	32.31	10.52	31.26	100	359	P	V
	*	5785	115.57	-	-	103.9	32.39	10.57	31.29	100	359	P	V
	*	5785	104.22	-	-	92.55	32.39	10.57	31.29	100	359	A	V
		5850.4	61.8	-59.49	121.29	50.02	32.48	10.62	31.32	100	359	P	V
		5855.2	60.98	-49.76	110.74	49.17	32.51	10.62	31.32	100	359	P	V
		5876	59.02	-45.44	104.46	47.18	32.53	10.64	31.33	100	359	P	V
		5934.8	55.46	-12.74	68.2	43.55	32.6	10.68	31.37	100	359	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	114.19	-	-	102.44	32.46	10.6	31.31	100	54	P	H
	*	5825	103.13	-	-	91.38	32.46	10.6	31.31	100	54	A	H
		5850.8	68.25	-52.13	120.38	56.47	32.48	10.62	31.32	100	54	P	H
		5861	68.87	-40.25	109.12	57.06	32.51	10.63	31.33	100	54	P	H
		5875.2	65.38	-39.67	105.05	53.54	32.53	10.64	31.33	100	54	P	H
		5926.4	56.85	-11.35	68.2	44.93	32.6	10.67	31.35	100	54	P	H
													H
802.11a													H
CH 165	*	5825	113.84	-	-	102.09	32.46	10.6	31.31	100	353	P	V
5825MHz	*	5825	102.94	-	-	91.19	32.46	10.6	31.31	100	353	A	V
		5852	68.45	-49.19	117.64	56.67	32.48	10.62	31.32	100	353	P	V
		5855.8	67.85	-42.73	110.58	56.04	32.51	10.62	31.32	100	353	P	V
		5875	65.37	-39.83	105.2	53.53	32.53	10.64	31.33	100	353	P	V
		5935.2	56.82	-11.38	68.2	44.91	32.6	10.68	31.37	100	353	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	62.46	-11.54	74	62.16	40.11	16.49	56.3	216	210	P	H
		11490	48.96	-5.04	54	48.66	40.11	16.49	56.3	216	210	A	H
		17235	51.95	-16.25	68.2	46.2	41.54	20.78	56.57	100	0	P	H
													H
		11490	59.31	-14.69	74	59.01	40.11	16.49	56.3	100	16	P	V
		11490	45.37	-8.63	54	45.07	40.11	16.49	56.3	100	16	A	V
		17235	51.69	-16.51	68.2	45.94	41.54	20.78	56.57	100	0	P	V
													V
802.11a CH 157 5785MHz		11570	59.48	-14.52	74	59.3	39.93	16.55	56.3	100	22	P	H
		11570	46.28	-7.72	54	46.1	39.93	16.55	56.3	100	22	A	H
		17355	50.73	-17.47	68.2	44.7	41.96	20.88	56.81	100	0	P	H
													H
		11570	59	-15	74	58.82	39.93	16.55	56.3	100	356	P	V
		11570	44.92	-9.08	54	44.74	39.93	16.55	56.3	100	356	A	V
		17355	51.22	-16.98	68.2	45.19	41.96	20.88	56.81	100	0	P	V
													V
802.11a CH 165 5825MHz		11650	57.67	-16.33	74	57.58	39.77	16.62	56.3	100	22	P	H
		11650	43.65	-10.35	54	43.56	39.77	16.62	56.3	100	22	A	H
		17475	50.04	-18.16	68.2	43.74	42.38	20.97	57.05	100	0	P	H
													H
		11650	54.95	-19.05	74	54.86	39.77	16.62	56.3	100	334	P	V
		11650	41.17	-12.83	54	41.08	39.77	16.62	56.3	100	334	A	V
		17475	50.83	-17.37	68.2	44.53	42.38	20.97	57.05	100	0	P	V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 4 5725~5850MHz

WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI Ant. 1	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)
		5609	55.14	-13.06	68.2	43.78	32.14	10.43	31.21	101	54	P	H
		5687.2	63.14	-32.62	95.76	51.63	32.27	10.49	31.25	101	54	P	H
		5720	66.05	-44.75	110.8	54.48	32.31	10.52	31.26	101	54	P	H
		5725	75.04	-47.16	122.2	63.47	32.31	10.52	31.26	101	54	P	H
	*	5745	112.33	-	-	100.72	32.34	10.54	31.27	101	54	P	H
	*	5745	100.92	-	-	89.31	32.34	10.54	31.27	101	54	A	H
802.11n													H
HT20													H
CH 149		5624	54.89	-13.31	68.2	43.49	32.17	10.44	31.21	100	11	P	V
5745MHz		5699.2	60.89	-43.72	104.61	49.37	32.27	10.5	31.25	100	11	P	V
		5720	65.13	-45.67	110.8	53.56	32.31	10.52	31.26	100	11	P	V
		5725	74.29	-47.91	122.2	62.72	32.31	10.52	31.26	100	11	P	V
	*	5745	112.27	-	-	100.66	32.34	10.54	31.27	100	11	P	V
	*	5745	100.81	-	-	89.2	32.34	10.54	31.27	100	11	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)
		5601	54.29	-13.91	68.2	42.93	32.14	10.42	31.2	105	55	P	H
		5699	55.65	-48.81	104.46	44.13	32.27	10.5	31.25	105	55	P	H
		5714.8	58.73	-50.62	109.35	47.19	32.29	10.51	31.26	105	55	P	H
		5723.8	58.36	-61.1	119.46	46.79	32.31	10.52	31.26	105	55	P	H
	*	5785	112.99	-	-	101.32	32.39	10.57	31.29	105	55	P	H
	*	5785	101.34	-	-	89.67	32.39	10.57	31.29	105	55	A	H
		5851.4	61.44	-57.57	119.01	49.66	32.48	10.62	31.32	105	55	P	H
		5857	59.06	-51.18	110.24	47.25	32.51	10.62	31.32	105	55	P	H
		5877.6	56.29	-46.98	103.27	44.45	32.53	10.64	31.33	105	55	P	H
		5939	55.34	-12.86	68.2	43.4	32.63	10.68	31.37	105	55	P	H
802.11n													H
HT20													H
CH 157		5630	54.37	-13.83	68.2	42.98	32.17	10.44	31.22	100	11	P	V
5785MHz		5696	54.75	-47.5	102.25	43.23	32.27	10.5	31.25	100	11	P	V
		5713	57.62	-51.22	108.84	46.08	32.29	10.51	31.26	100	11	P	V
		5722.8	58.58	-58.6	117.18	47.01	32.31	10.52	31.26	100	11	P	V
	*	5785	113.29	-	-	101.62	32.39	10.57	31.29	100	11	P	V
	*	5785	101.62	-	-	89.95	32.39	10.57	31.29	100	11	A	V
		5850	61.35	-60.85	122.2	49.57	32.48	10.62	31.32	100	11	P	V
		5855	59.52	-51.28	110.8	47.71	32.51	10.62	31.32	100	11	P	V
		5878	58	-44.97	102.97	46.16	32.53	10.64	31.33	100	11	P	V
		5926.2	55.03	-13.17	68.2	43.11	32.6	10.67	31.35	100	11	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	112.87	-	-	101.12	32.46	10.6	31.31	100	55	P	H
	*	5825	101.24	-	-	89.49	32.46	10.6	31.31	100	55	A	H
		5850.2	67.65	-54.09	121.74	55.87	32.48	10.62	31.32	100	55	P	H
		5857.8	63.89	-46.12	110.01	52.09	32.51	10.62	31.33	100	55	P	H
		5875.6	63	-41.75	104.75	51.16	32.53	10.64	31.33	100	55	P	H
		5939	55.47	-12.73	68.2	43.53	32.63	10.68	31.37	100	55	P	H
802.11n													H
HT20													H
CH 165	*	5825	113.07	-	-	101.32	32.46	10.6	31.31	107	10	P	V
5825MHz	*	5825	101.58	-	-	89.83	32.46	10.6	31.31	107	10	A	V
		5850.2	68.45	-53.29	121.74	56.67	32.48	10.62	31.32	107	10	P	V
		5857.2	63.76	-46.42	110.18	51.95	32.51	10.62	31.32	107	10	P	V
		5875.2	61.48	-43.57	105.05	49.64	32.53	10.64	31.33	107	10	P	V
		5934.8	55.64	-12.56	68.2	43.73	32.6	10.68	31.37	107	10	P	V
													V
													V

Remark

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

Band 4 5725~5850MHz

WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		11490	62.05	-11.95	74	61.75	40.11	16.49	56.3	100	22	P	H
		11490	45.72	-8.28	54	45.42	40.11	16.49	56.3	100	22	A	H
802.11n		17235	51.04	-17.16	68.2	45.29	41.54	20.78	56.57	100	0	P	H
HT20													H
CH 149		11490	59.91	-14.09	74	59.61	40.11	16.49	56.3	100	333	P	V
5745MHz		11490	44.29	-9.71	54	43.99	40.11	16.49	56.3	100	333	A	V
		17235	50.55	-17.65	68.2	44.8	41.54	20.78	56.57	100	0	P	V
													V
		11570	60.21	-13.79	74	60.03	39.93	16.55	56.3	100	21	P	H
		11570	44.13	-9.87	54	43.95	39.93	16.55	56.3	100	21	A	H
802.11n		17355	51.03	-17.17	68.2	45	41.96	20.88	56.81	100	0	P	H
HT20													H
CH 157		11570	57.88	-16.12	74	57.7	39.93	16.55	56.3	100	336	P	V
5785MHz		11570	42.66	-11.34	54	42.48	39.93	16.55	56.3	100	336	A	V
		17355	51.97	-16.23	68.2	45.94	41.96	20.88	56.81	100	0	P	V
													V
		11650	57.38	-16.62	74	57.29	39.77	16.62	56.3	100	220	P	H
		11650	41.84	-12.16	54	41.75	39.77	16.62	56.3	100	220	A	H
802.11n		17475	49.85	-18.35	68.2	43.55	42.38	20.97	57.05	100	0	P	H
HT20													H
CH 165		11650	55.38	-18.62	74	55.29	39.77	16.62	56.3	100	358	P	V
5825MHz		11650	40.76	-13.24	54	40.67	39.77	16.62	56.3	100	358	A	V
		17475	49.83	-18.37	68.2	43.53	42.38	20.97	57.05	100	0	P	V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 4 5725~5850MHz

WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI Ant. 1	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)
		5649	55.19	-13.01	68.2	43.76	32.19	10.46	31.22	103	62	P	H
		5698.8	63.29	-41.03	104.32	51.77	32.27	10.5	31.25	103	62	P	H
		5717.6	74.75	-35.38	110.13	63.19	32.31	10.51	31.26	103	62	P	H
		5724.4	74.03	-46.8	120.83	62.46	32.31	10.52	31.26	103	62	P	H
	*	5755	108.72	-	-	97.09	32.36	10.54	31.27	103	62	P	H
	*	5755	97.8	-	-	86.17	32.36	10.54	31.27	103	62	A	H
		5854.8	57.73	-53.53	111.26	45.92	32.51	10.62	31.32	103	62	P	H
		5855.6	58.27	-52.36	110.63	46.46	32.51	10.62	31.32	103	62	P	H
		5889.2	55.54	-39.12	94.66	43.67	32.56	10.65	31.34	103	62	P	H
		5925.8	55.18	-13.02	68.2	43.26	32.6	10.67	31.35	103	62	P	H
802.11n													H
HT40													H
CH 151		5649.6	57.26	-10.94	68.2	45.8	32.22	10.46	31.22	100	357	P	V
5755MHz		5691.6	69.24	-29.77	99.01	57.73	32.27	10.49	31.25	100	357	P	V
		5719.2	72.92	-37.66	110.58	61.35	32.31	10.52	31.26	100	357	P	V
		5725	74.66	-47.54	122.2	63.09	32.31	10.52	31.26	100	357	P	V
	*	5755	109.94	-	-	98.31	32.36	10.54	31.27	100	357	P	V
	*	5755	99.1	-	-	87.47	32.36	10.54	31.27	100	357	A	V
		5853.4	59.33	-55.12	114.45	47.55	32.48	10.62	31.32	100	357	P	V
		5855.4	58.94	-51.75	110.69	47.13	32.51	10.62	31.32	100	357	P	V
		5877.8	57.48	-45.64	103.12	45.64	32.53	10.64	31.33	100	357	P	V
		5946.4	55.1	-13.1	68.2	43.15	32.63	10.69	31.37	100	357	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)
		5624.2	54.5	-13.7	68.2	43.1	32.17	10.44	31.21	102	62	P	H
		5691.2	56.1	-42.61	98.71	44.59	32.27	10.49	31.25	102	62	P	H
		5713.6	60.59	-48.42	109.01	49.05	32.29	10.51	31.26	102	62	P	H
		5724	61.67	-58.25	119.92	50.1	32.31	10.52	31.26	102	62	P	H
	*	5795	109.22	-	-	97.52	32.41	10.58	31.29	102	62	P	H
	*	5795	98.42	-	-	86.72	32.41	10.58	31.29	102	62	A	H
		5850.4	65.98	-55.31	121.29	54.2	32.48	10.62	31.32	102	62	P	H
		5855.6	65.09	-45.54	110.63	53.28	32.51	10.62	31.32	102	62	P	H
		5876.8	61.88	-41.98	103.86	50.04	32.53	10.64	31.33	102	62	P	H
		5929.2	56.68	-11.52	68.2	44.75	32.6	10.68	31.35	102	62	P	H
802.11n													H
HT40													H
CH 159		5628.2	54.44	-13.76	68.2	43.04	32.17	10.44	31.21	103	356	P	V
5795MHz		5695.4	61.28	-40.53	101.81	49.76	32.27	10.5	31.25	103	356	P	V
		5716	61.49	-48.19	109.68	49.95	32.29	10.51	31.26	103	356	P	V
		5722.4	62.33	-53.94	116.27	50.76	32.31	10.52	31.26	103	356	P	V
	*	5795	110.46	-	-	98.76	32.41	10.58	31.29	103	356	P	V
	*	5795	99.62	-	-	87.92	32.41	10.58	31.29	103	356	A	V
		5852	67.1	-50.54	117.64	55.32	32.48	10.62	31.32	103	356	P	V
		5857	66.26	-43.98	110.24	54.45	32.51	10.62	31.32	103	356	P	V
		5877.4	63.68	-39.74	103.42	51.84	32.53	10.64	31.33	103	356	P	V
		5927	57.29	-10.91	68.2	45.36	32.6	10.68	31.35	103	356	P	V
													V
													V

Remark

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

Band 4 5725~5850MHz

WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		11510	53.83	-20.17	74	53.53	40.1	16.5	56.3	100	22	P	H
		11510	42.02	-11.98	54	41.72	40.1	16.5	56.3	100	22	A	H
802.11n		17265	49.75	-18.45	68.2	43.91	41.66	20.81	56.63	100	0	P	H
HT40													H
CH 151		11510	54	-20	74	53.7	40.1	16.5	56.3	100	355	P	V
5755MHz		11510	41.63	-12.37	54	41.33	40.1	16.5	56.3	100	355	A	V
		17265	49.49	-18.71	68.2	43.65	41.66	20.81	56.63	100	0	P	V
													V
		11590	53.45	-20.55	74	53.29	39.89	16.57	56.3	100	22	P	H
		11590	40.21	-13.79	54	40.05	39.89	16.57	56.3	100	22	A	H
802.11n		17385	51.26	-16.94	68.2	45.15	42.08	20.9	56.87	100	0	P	H
HT40													H
CH 159		11590	49.38	-24.62	74	49.22	39.89	16.57	56.3	100	0	P	V
5795MHz		17385	50.77	-17.43	68.2	44.66	42.08	20.9	56.87	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)
		5648.6	54.01	-14.19	68.2	42.58	32.19	10.46	31.22	103	62	P	H
		5695.4	68.66	-33.15	101.81	57.14	32.27	10.5	31.25	103	62	P	H
		5718.8	72.77	-37.69	110.46	61.2	32.31	10.52	31.26	103	62	P	H
		5720.2	73.19	-38.07	111.26	61.62	32.31	10.52	31.26	103	62	P	H
	*	5775	105.86	-	-	94.19	32.39	10.56	31.28	103	62	P	H
	*	5775	95.29	-	-	83.62	32.39	10.56	31.28	103	62	A	H
		5853.8	69.2	-44.34	113.54	57.39	32.51	10.62	31.32	103	62	P	H
		5858.8	68.18	-41.55	109.73	56.38	32.51	10.62	31.33	103	62	P	H
		5877	63.85	-39.86	103.71	52.01	32.53	10.64	31.33	103	62	P	H
		5950	55.11	-13.09	68.2	43.16	32.63	10.69	31.37	103	62	P	H
802.11ac													H
VHT80													H
CH 155		5646	54.65	-13.55	68.2	43.22	32.19	10.46	31.22	105	357	P	V
5775MHz		5698.6	69.38	-34.79	104.17	57.86	32.27	10.5	31.25	105	357	P	V
		5718.8	72.99	-37.47	110.46	61.42	32.31	10.52	31.26	105	357	P	V
		5720.2	73.48	-37.78	111.26	61.91	32.31	10.52	31.26	105	357	P	V
	*	5775	106.4	-	-	94.73	32.39	10.56	31.28	105	357	P	V
	*	5775	96.56	-	-	84.89	32.39	10.56	31.28	105	357	A	V
		5851.2	71.39	-48.07	119.46	59.61	32.48	10.62	31.32	105	357	P	V
		5858.8	70.28	-39.45	109.73	58.48	32.51	10.62	31.33	105	357	P	V
		5875.4	65.04	-39.86	104.9	53.2	32.53	10.64	31.33	105	357	P	V
		5931.8	55.31	-12.89	68.2	43.38	32.6	10.68	31.35	105	357	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	48.97	-25.03	74	48.75	39.98	16.54	56.3	100	0	P	H
		17325	49.56	-18.64	68.2	43.62	41.84	20.85	56.75	100	0	P	H
802.11ac													H
VHT80													H
CH 155		11550	48.84	-25.16	74	48.62	39.98	16.54	56.3	100	0	P	V
5775MHz		17325	49.8	-18.4	68.2	43.86	41.84	20.85	56.75	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 802.11a (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
2		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		5628.8	53.76	-14.44	68.2	42.37	32.17	10.44	31.22	102	71	P	H
		5699.6	60.89	-44.02	104.91	49.37	32.27	10.5	31.25	102	71	P	H
		5717.4	68.85	-41.22	110.07	57.31	32.29	10.51	31.26	102	71	P	H
		5723.8	77.86	-41.6	119.46	66.29	32.31	10.52	31.26	102	71	P	H
	*	5745	111.4	-	-	99.79	32.34	10.54	31.27	102	71	P	H
	*	5745	100.31	-	-	88.7	32.34	10.54	31.27	102	71	A	H
													H
802.11a													H
CH 149		5648.8	55.04	-13.16	68.2	43.61	32.19	10.46	31.22	100	91	P	V
5745MHz		5699.8	62.9	-42.15	105.05	51.38	32.27	10.5	31.25	100	91	P	V
		5717.4	70.62	-39.45	110.07	59.08	32.29	10.51	31.26	100	91	P	V
		5724.2	81	-39.38	120.38	69.43	32.31	10.52	31.26	100	91	P	V
	*	5745	113.23	-	-	101.62	32.34	10.54	31.27	100	91	P	V
	*	5745	102.16	-	-	90.55	32.34	10.54	31.27	100	91	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)
		5630.4	53.97	-14.23	68.2	42.58	32.17	10.44	31.22	100	0	P	H
		5699.8	57.18	-47.87	105.05	45.66	32.27	10.5	31.25	100	0	P	H
		5720	59.57	-51.23	110.8	48	32.31	10.52	31.26	100	0	P	H
		5724.4	61.13	-59.7	120.83	49.56	32.31	10.52	31.26	100	0	P	H
	*	5785	110.46	-	-	98.79	32.39	10.57	31.29	100	0	P	H
	*	5785	99.25	-	-	87.58	32.39	10.57	31.29	100	0	A	H
		5850.4	61.25	-60.04	121.29	49.47	32.48	10.62	31.32	100	0	P	H
		5855.8	60.23	-50.35	110.58	48.42	32.51	10.62	31.32	100	0	P	H
		5875.2	56.05	-49	105.05	44.21	32.53	10.64	31.33	100	0	P	H
		5946	54.74	-13.46	68.2	42.79	32.63	10.69	31.37	100	0	P	H
													H
802.11a CH 157 5785MHz													H
		5625.2	54.04	-14.16	68.2	42.64	32.17	10.44	31.21	301	93	P	V
		5698	58.3	-45.43	103.73	46.78	32.27	10.5	31.25	301	93	P	V
		5719.8	61.18	-49.56	110.74	49.61	32.31	10.52	31.26	301	93	P	V
		5724.8	62.81	-58.93	121.74	51.24	32.31	10.52	31.26	301	93	P	V
	*	5785	112.7	-	-	101.03	32.39	10.57	31.29	301	93	P	V
	*	5785	101.56	-	-	89.89	32.39	10.57	31.29	301	93	A	V
		5850.8	63.3	-57.08	120.38	51.52	32.48	10.62	31.32	301	93	P	V
		5855.6	61.92	-48.71	110.63	50.11	32.51	10.62	31.32	301	93	P	V
		5880.4	59.29	-41.9	101.19	47.45	32.53	10.64	31.33	301	93	P	V
		5942.4	55.06	-13.14	68.2	43.11	32.63	10.69	31.37	301	93	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	110.68	-	-	98.93	32.46	10.6	31.31	105	72	P	H
	*	5825	99.47	-	-	87.72	32.46	10.6	31.31	105	72	A	H
		5850	67.02	-55.18	122.2	55.24	32.48	10.62	31.32	105	72	P	H
		5855	66.75	-44.05	110.8	54.94	32.51	10.62	31.32	105	72	P	H
		5875.2	63.75	-41.3	105.05	51.91	32.53	10.64	31.33	105	72	P	H
		5935.6	55.38	-12.82	68.2	43.47	32.6	10.68	31.37	105	72	P	H
													H
802.11a													H
CH 165	*	5825	111.65	-	-	99.9	32.46	10.6	31.31	105	95	P	V
5825MHz	*	5825	100.87	-	-	89.12	32.46	10.6	31.31	105	95	A	V
		5852.8	68.4	-47.42	115.82	56.62	32.48	10.62	31.32	105	95	P	V
		5859	68.41	-41.27	109.68	56.61	32.51	10.62	31.33	105	95	P	V
		5875.2	65.58	-39.47	105.05	53.74	32.53	10.64	31.33	105	95	P	V
		5926.8	56.73	-11.47	68.2	44.8	32.6	10.68	31.35	105	95	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	60.2	-13.8	74	59.9	40.11	16.49	56.3	100	22	P	H
		11490	45.76	-8.24	54	45.46	40.11	16.49	56.3	100	22	A	H
		17235	51.16	-17.04	68.2	45.41	41.54	20.78	56.57	100	0	P	H
													H
		11490	58.97	-15.03	74	58.67	40.11	16.49	56.3	100	358	P	V
		11490	44.22	-9.78	54	43.92	40.11	16.49	56.3	100	358	A	V
		17235	50.72	-17.48	68.2	44.97	41.54	20.78	56.57	100	0	P	V
													V
802.11a CH 157 5785MHz		11570	58.52	-15.48	74	58.34	39.93	16.55	56.3	100	22	P	H
		11570	44.2	-9.8	54	44.02	39.93	16.55	56.3	100	22	A	H
		17355	52.2	-16	68.2	46.17	41.96	20.88	56.81	100	0	P	H
													H
		11570	56.93	-17.07	74	56.75	39.93	16.55	56.3	100	358	P	V
		11570	42.6	-11.4	54	42.42	39.93	16.55	56.3	100	358	A	V
		17355	50.86	-17.34	68.2	44.83	41.96	20.88	56.81	100	0	P	V
													V
802.11a CH 165 5825MHz		11650	57.05	-16.95	74	56.96	39.77	16.62	56.3	216	231	P	H
		11650	42.45	-11.55	54	42.36	39.77	16.62	56.3	216	231	A	H
		17475	49.63	-18.57	68.2	43.33	42.38	20.97	57.05	100	0	P	H
													H
		11650	54.96	-19.04	74	54.87	39.77	16.62	56.3	109	332	P	V
		11650	40.68	-13.32	54	40.59	39.77	16.62	56.3	109	332	A	V
		17475	50.42	-17.78	68.2	44.12	42.38	20.97	57.05	100	0	P	V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 4 5725~5850MHz

WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI Ant. 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)
		5648.8	57.21	-10.99	68.2	45.78	32.19	10.46	31.22	100	327	P	H
		5699.6	67.27	-37.64	104.91	55.75	32.27	10.5	31.25	100	327	P	H
		5720	71.59	-39.21	110.8	60.02	32.31	10.52	31.26	100	327	P	H
		5723.2	78.58	-39.52	118.1	67.01	32.31	10.52	31.26	100	327	P	H
	*	5745	110.39	-	-	98.78	32.34	10.54	31.27	100	327	P	H
	*	5745	99.05	-	-	87.44	32.34	10.54	31.27	100	327	A	H
802.11n													H
HT20													H
CH 149		5645.2	56.56	-11.64	68.2	45.13	32.19	10.46	31.22	100	91	P	V
5745MHz		5699.8	68.55	-36.5	105.05	57.03	32.27	10.5	31.25	100	91	P	V
		5717.6	70.46	-39.67	110.13	58.9	32.31	10.51	31.26	100	91	P	V
		5725	78.35	-43.85	122.2	66.78	32.31	10.52	31.26	100	91	P	V
	*	5745	112.82	-	-	101.21	32.34	10.54	31.27	100	91	P	V
	*	5745	101.45	-	-	89.84	32.34	10.54	31.27	100	91	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)
		5626.2	54.13	-14.07	68.2	42.73	32.17	10.44	31.21	100	70	P	H
		5698.2	55.14	-48.73	103.87	43.62	32.27	10.5	31.25	100	70	P	H
		5714.2	58.53	-50.65	109.18	46.99	32.29	10.51	31.26	100	70	P	H
		5723.6	60.48	-58.53	119.01	48.91	32.31	10.52	31.26	100	70	P	H
	*	5785	109.71	-	-	98.04	32.39	10.57	31.29	100	70	P	H
	*	5785	98.49	-	-	86.82	32.39	10.57	31.29	100	70	A	H
		5850.2	61.09	-60.65	121.74	49.31	32.48	10.62	31.32	100	70	P	H
		5855.8	60.26	-50.32	110.58	48.45	32.51	10.62	31.32	100	70	P	H
		5879.4	56.93	-45	101.93	45.09	32.53	10.64	31.33	100	70	P	H
		5946	54.86	-13.34	68.2	42.91	32.63	10.69	31.37	100	70	P	H
802.11n													H
HT20													H
CH 157		5605.2	54.1	-14.1	68.2	42.75	32.14	10.42	31.21	100	89	P	V
5785MHz		5698.2	56.76	-47.11	103.87	45.24	32.27	10.5	31.25	100	89	P	V
		5716.4	60.9	-48.89	109.79	49.36	32.29	10.51	31.26	100	89	P	V
		5724	62.08	-57.84	119.92	50.51	32.31	10.52	31.26	100	89	P	V
	*	5785	112.35	-	-	100.68	32.39	10.57	31.29	100	89	P	V
	*	5785	100.87	-	-	89.2	32.39	10.57	31.29	100	89	A	V
		5850.6	63.26	-57.57	120.83	51.48	32.48	10.62	31.32	100	89	P	V
		5855	62.21	-48.59	110.8	50.4	32.51	10.62	31.32	100	89	P	V
		5876.4	58.98	-45.18	104.16	47.14	32.53	10.64	31.33	100	89	P	V
		5947.6	55.99	-12.21	68.2	44.04	32.63	10.69	31.37	100	89	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	108.49	-	-	96.74	32.46	10.6	31.31	100	68	P	H
	*	5825	97.5	-	-	85.75	32.46	10.6	31.31	100	68	A	H
		5850.6	67.43	-53.4	120.83	55.65	32.48	10.62	31.32	100	68	P	H
		5856.2	67.09	-43.37	110.46	55.28	32.51	10.62	31.32	100	68	P	H
		5877	64.58	-39.13	103.71	52.74	32.53	10.64	31.33	100	68	P	H
		5930.4	55.07	-13.13	68.2	43.14	32.6	10.68	31.35	100	68	P	H
802.11n													H
HT20													H
CH 165	*	5825	110.17	-	-	98.42	32.46	10.6	31.31	100	90	P	V
5825MHz	*	5825	99.74	-	-	87.99	32.46	10.6	31.31	100	90	A	V
		5850.6	69.63	-51.2	120.83	57.85	32.48	10.62	31.32	100	90	P	V
		5858	68.68	-41.28	109.96	56.88	32.51	10.62	31.33	100	90	P	V
		5875	66.12	-39.08	105.2	54.28	32.53	10.64	31.33	100	90	P	V
		5929	58.67	-9.53	68.2	46.74	32.6	10.68	31.35	100	90	P	V
													V
													V

Remark

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

Band 4 5725~5850MHz

WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		11490	60.51	-13.49	74	60.21	40.11	16.49	56.3	213	231	P	H
		11490	44.88	-9.12	54	44.58	40.11	16.49	56.3	213	231	A	H
802.11n		17235	50.43	-17.77	68.2	44.68	41.54	20.78	56.57	100	0	P	H
HT20													H
CH 149		11490	57.74	-16.26	74	57.44	40.11	16.49	56.3	100	332	P	V
5745MHz		11490	42.57	-11.43	54	42.27	40.11	16.49	56.3	100	332	A	V
		17235	50.59	-17.61	68.2	44.84	41.54	20.78	56.57	100	0	P	V
													V
		11570	58.4	-15.6	74	58.22	39.93	16.55	56.3	100	222	P	H
		11570	42.91	-11.09	54	42.73	39.93	16.55	56.3	100	222	A	H
802.11n		17355	51.78	-16.42	68.2	45.75	41.96	20.88	56.81	100	0	P	H
HT20													H
CH 157		11570	57.24	-16.76	74	57.06	39.93	16.55	56.3	100	355	P	V
5785MHz		11570	41.68	-12.32	54	41.5	39.93	16.55	56.3	100	355	A	V
		17355	51.6	-16.6	68.2	45.57	41.96	20.88	56.81	100	0	P	V
													V
		11650	54.66	-19.34	74	54.57	39.77	16.62	56.3	100	50	P	H
		11650	41.88	-12.12	54	41.79	39.77	16.62	56.3	100	50	A	H
802.11n		17475	50.88	-17.32	68.2	44.58	42.38	20.97	57.05	100	0	P	H
HT20													H
CH 165		11650	53.86	-20.14	74	53.77	39.77	16.62	56.3	100	359	P	V
5825MHz		11650	41.46	-12.54	54	41.37	39.77	16.62	56.3	100	359	A	V
		17475	49.84	-18.36	68.2	43.54	42.38	20.97	57.05	100	0	P	V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 4 5725~5850MHz

WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI Ant. 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)
		5649.2	54.17	-14.03	68.2	42.74	32.19	10.46	31.22	237	66	P	H
		5695	61.75	-39.76	101.51	50.23	32.27	10.5	31.25	237	66	P	H
		5719.2	76.64	-33.94	110.58	65.07	32.31	10.52	31.26	237	66	P	H
		5725	78.49	-43.71	122.2	66.92	32.31	10.52	31.26	237	66	P	H
	*	5755	107.84	-	-	96.21	32.36	10.54	31.27	237	66	P	H
	*	5755	97.1	-	-	85.47	32.36	10.54	31.27	237	66	A	H
		5850.6	56.97	-63.86	120.83	45.19	32.48	10.62	31.32	237	66	P	H
		5859.4	57.76	-51.81	109.57	45.96	32.51	10.62	31.33	237	66	P	H
		5878.2	55.01	-47.81	102.82	43.17	32.53	10.64	31.33	237	66	P	H
		5935.2	54.14	-14.06	68.2	42.23	32.6	10.68	31.37	237	66	P	H
802.11n													H
HT40													H
CH 151		5649.4	55.96	-12.24	68.2	44.53	32.19	10.46	31.22	100	89	P	V
5755MHz		5698.6	64.06	-40.11	104.17	52.54	32.27	10.5	31.25	100	89	P	V
		5716.4	78.11	-31.68	109.79	66.57	32.29	10.51	31.26	100	89	P	V
		5725	80.34	-41.86	122.2	68.77	32.31	10.52	31.26	100	89	P	V
	*	5755	109.1	-	-	97.47	32.36	10.54	31.27	100	89	P	V
	*	5755	98.46	-	-	86.83	32.36	10.54	31.27	100	89	A	V
		5850	58.16	-64.04	122.2	46.38	32.48	10.62	31.32	100	89	P	V
		5858.2	58.26	-51.64	109.9	46.46	32.51	10.62	31.33	100	89	P	V
		5880	55.72	-45.77	101.49	43.88	32.53	10.64	31.33	100	89	P	V
		5930.4	54.31	-13.89	68.2	42.38	32.6	10.68	31.35	100	89	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)
		5617	53.48	-14.72	68.2	42.09	32.17	10.43	31.21	239	63	P	H
		5693	55.83	-44.21	100.04	44.32	32.27	10.49	31.25	239	63	P	H
		5716.6	57.41	-52.44	109.85	45.87	32.29	10.51	31.26	239	63	P	H
		5723.8	58.84	-60.62	119.46	47.27	32.31	10.52	31.26	239	63	P	H
	*	5795	107.25	-	-	95.55	32.41	10.58	31.29	239	63	P	H
	*	5795	96.63	-	-	84.93	32.41	10.58	31.29	239	63	A	H
		5851	62.31	-57.61	119.92	50.53	32.48	10.62	31.32	239	63	P	H
		5855	61.92	-48.88	110.8	50.11	32.51	10.62	31.32	239	63	P	H
		5875.6	59.34	-45.41	104.75	47.5	32.53	10.64	31.33	239	63	P	H
		5936.2	54.6	-13.6	68.2	42.69	32.6	10.68	31.37	239	63	P	H
802.11n													H
HT40													H
CH 159		5608	54.29	-13.91	68.2	42.93	32.14	10.43	31.21	100	93	P	V
5795MHz		5698	56.17	-47.56	103.73	44.65	32.27	10.5	31.25	100	93	P	V
		5717.8	60.12	-50.06	110.18	48.56	32.31	10.51	31.26	100	93	P	V
		5724.8	60.43	-61.31	121.74	48.86	32.31	10.52	31.26	100	93	P	V
	*	5795	109.2	-	-	97.5	32.41	10.58	31.29	100	93	P	V
	*	5795	98.43	-	-	86.73	32.41	10.58	31.29	100	93	A	V
		5851.2	64.48	-54.98	119.46	52.7	32.48	10.62	31.32	100	93	P	V
		5856.8	63.68	-46.62	110.3	51.87	32.51	10.62	31.32	100	93	P	V
		5875.2	60.46	-44.59	105.05	48.62	32.53	10.64	31.33	100	93	P	V
		5934.4	56.39	-11.81	68.2	44.48	32.6	10.68	31.37	100	93	P	V
													V
													V

Remark

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

Band 4 5725~5850MHz

WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		11510	54.32	-19.68	74	54.02	40.1	16.5	56.3	100	21	P	H
		11510	41.53	-12.47	54	41.23	40.1	16.5	56.3	100	21	A	H
802.11n		17265	49.47	-18.73	68.2	43.63	41.66	20.81	56.63	100	0	P	H
HT40													H
CH 151		11510	48.84	-25.16	74	48.54	40.1	16.5	56.3	100	0	P	V
5755MHz		17265	50.08	-18.12	68.2	44.24	41.66	20.81	56.63	100	0	P	V
													V
													V
		11590	53.5	-20.5	74	53.34	39.89	16.57	56.3	100	228	P	H
		11590	40.9	-13.1	54	40.74	39.89	16.57	56.3	100	228	A	H
802.11n		17385	50.27	-17.93	68.2	44.16	42.08	20.9	56.87	100	0	P	H
HT40													H
CH 159		11590	52.49	-21.51	74	52.33	39.89	16.57	56.3	100	358	P	V
5795MHz		11590	39.77	-14.23	54	39.61	39.89	16.57	56.3	100	358	A	V
		17385	50.33	-17.87	68.2	44.22	42.08	20.9	56.87	100	0	P	V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 4 5725~5850MHz

WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI Ant. 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)
		5642	54.76	-13.44	68.2	43.34	32.19	10.45	31.22	225	64	P	H
		5695.2	71.61	-30.05	101.66	60.09	32.27	10.5	31.25	225	64	P	H
		5718.8	75.41	-35.05	110.46	63.84	32.31	10.52	31.26	225	64	P	H
		5720.2	75.23	-36.03	111.26	63.66	32.31	10.52	31.26	225	64	P	H
	*	5775	103.29	-	-	91.62	32.39	10.56	31.28	225	64	P	H
	*	5775	93.37	-	-	81.7	32.39	10.56	31.28	225	64	A	H
		5851	70.23	-49.69	119.92	58.45	32.48	10.62	31.32	225	64	P	H
		5858.8	69.55	-40.18	109.73	57.75	32.51	10.62	31.33	225	64	P	H
		5877	63.76	-39.95	103.71	51.92	32.53	10.64	31.33	225	64	P	H
		5926.8	54.67	-13.53	68.2	42.74	32.6	10.68	31.35	225	64	P	H
802.11ac													H
VHT80													H
CH 155		5646.8	55.87	-12.33	68.2	44.44	32.19	10.46	31.22	100	89	P	V
5775MHz		5695.2	73.47	-28.19	101.66	61.95	32.27	10.5	31.25	100	89	P	V
		5718.8	77.15	-33.31	110.46	65.58	32.31	10.52	31.26	100	89	P	V
		5720.2	77.28	-33.98	111.26	65.71	32.31	10.52	31.26	100	89	P	V
	*	5775	105.15	-	-	93.48	32.39	10.56	31.28	100	89	P	V
	*	5775	95.24	-	-	83.57	32.39	10.56	31.28	100	89	A	V
		5851.2	72.56	-46.9	119.46	60.78	32.48	10.62	31.32	100	89	P	V
		5858.6	71.21	-38.58	109.79	59.41	32.51	10.62	31.33	100	89	P	V
		5877	65.66	-38.05	103.71	53.82	32.53	10.64	31.33	100	89	P	V
		5927	55.18	-13.02	68.2	43.25	32.6	10.68	31.35	100	89	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	52.75	-21.25	74	52.53	39.98	16.54	56.3	100	216	P	H
		11550	39.93	-14.07	54	39.71	39.98	16.54	56.3	100	216	A	H
802.11ac		17325	49.88	-18.32	68.2	43.94	41.84	20.85	56.75	100	0	P	H
VHT80													H
CH 155		11550	48.77	-25.23	74	48.55	39.98	16.54	56.3	100	0	P	V
5775MHz		17325	49.34	-18.86	68.2	43.4	41.84	20.85	56.75	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 802.11a (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		5635.6	54.69	-13.51	68.2	43.27	32.19	10.45	31.22	100	66	P	H
		5700	60.57	-44.63	105.2	49.05	32.27	10.5	31.25	100	66	P	H
		5719	62.32	-48.2	110.52	50.75	32.31	10.52	31.26	100	66	P	H
		5723.2	73.99	-44.11	118.1	62.42	32.31	10.52	31.26	100	66	P	H
	*	5745	115.47	-	-	103.86	32.34	10.54	31.27	100	66	P	H
	*	5745	104.59	-	-	92.98	32.34	10.54	31.27	100	66	A	H
													H
802.11a													H
CH 149		5639.4	55.7	-12.5	68.2	44.28	32.19	10.45	31.22	100	93	P	V
5745MHz		5700	63.82	-41.38	105.2	52.3	32.27	10.5	31.25	100	93	P	V
		5719.4	66.37	-44.26	110.63	54.8	32.31	10.52	31.26	100	93	P	V
		5724.6	78.41	-42.88	121.29	66.84	32.31	10.52	31.26	100	93	P	V
	*	5745	115.06	-	-	103.45	32.34	10.54	31.27	100	93	P	V
	*	5745	104.59	-	-	92.98	32.34	10.54	31.27	100	93	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)
		5624	54.51	-13.69	68.2	43.11	32.17	10.44	31.21	103	71	P	H
		5698.6	55.34	-48.83	104.17	43.82	32.27	10.5	31.25	103	71	P	H
		5716.8	58.78	-51.13	109.91	47.24	32.29	10.51	31.26	103	71	P	H
		5724.6	60.02	-61.27	121.29	48.45	32.31	10.52	31.26	103	71	P	H
	*	5785	116.73	-	-	105.06	32.39	10.57	31.29	103	71	P	H
	*	5785	105.95	-	-	94.28	32.39	10.57	31.29	103	71	A	H
		5854.4	58.43	-53.74	112.17	46.62	32.51	10.62	31.32	103	71	P	H
		5856.6	58.74	-51.61	110.35	46.93	32.51	10.62	31.32	103	71	P	H
		5876.6	55.72	-48.29	104.01	43.88	32.53	10.64	31.33	103	71	P	H
		5933	55.12	-13.08	68.2	43.19	32.6	10.68	31.35	103	71	P	H
													H
802.11a CH 157 5785MHz													H
		5637.6	55.19	-13.01	68.2	43.77	32.19	10.45	31.22	100	89	P	V
		5696.8	56.66	-46.18	102.84	45.14	32.27	10.5	31.25	100	89	P	V
		5719.6	60.44	-50.25	110.69	48.87	32.31	10.52	31.26	100	89	P	V
		5720.2	60.81	-50.45	111.26	49.24	32.31	10.52	31.26	100	89	P	V
	*	5785	117.16	-	-	105.49	32.39	10.57	31.29	100	89	P	V
	*	5785	106.18	-	-	94.51	32.39	10.57	31.29	100	89	A	V
		5854.8	60.63	-50.63	111.26	48.82	32.51	10.62	31.32	100	89	P	V
		5857	61.04	-49.2	110.24	49.23	32.51	10.62	31.32	100	89	P	V
		5877	57.27	-46.44	103.71	45.43	32.53	10.64	31.33	100	89	P	V
		5941.4	55.5	-12.7	68.2	43.55	32.63	10.69	31.37	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	114.33	-	-	102.58	32.46	10.6	31.31	100	67	P	H
	*	5825	102.66	-	-	90.91	32.46	10.6	31.31	100	67	A	H
		5851.4	70.23	-48.78	119.01	58.45	32.48	10.62	31.32	100	67	P	H
		5855	70.1	-40.7	110.8	58.29	32.51	10.62	31.32	100	67	P	H
		5875	67.5	-37.7	105.2	55.66	32.53	10.64	31.33	100	67	P	H
		5927	56.91	-11.29	68.2	44.98	32.6	10.68	31.35	100	67	P	H
													H
802.11a													H
CH 165	*	5825	116.69	-	-	104.94	32.46	10.6	31.31	100	91	P	V
5825MHz	*	5825	105.98	-	-	94.23	32.46	10.6	31.31	100	91	A	V
		5854.8	63.75	-47.51	111.26	51.94	32.51	10.62	31.32	100	91	P	V
		5855.8	63.99	-46.59	110.58	52.18	32.51	10.62	31.32	100	91	P	V
		5877	62.94	-40.77	103.71	51.1	32.53	10.64	31.33	100	91	P	V
		5927.2	54.92	-13.28	68.2	42.99	32.6	10.68	31.35	100	91	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	63.44	-10.56	74	63.14	40.11	16.49	56.3	105	22	P	H
		11490	50.11	-3.89	54	49.81	40.11	16.49	56.3	105	22	A	H
		17235	50.77	-17.43	68.2	45.02	41.54	20.78	56.57	100	0	P	H
													H
		11490	61.13	-12.87	74	60.83	40.11	16.49	56.3	100	358	P	V
		11490	47.98	-6.02	54	47.68	40.11	16.49	56.3	100	358	A	V
		17235	53.05	-15.15	68.2	47.3	41.54	20.78	56.57	100	0	P	V
													V
802.11a CH 157 5785MHz		11570	63.38	-10.62	74	63.2	39.93	16.55	56.3	100	22	P	H
		11570	49.75	-4.25	54	49.57	39.93	16.55	56.3	100	22	A	H
		17355	51.26	-16.94	68.2	45.23	41.96	20.88	56.81	100	0	P	H
													H
		11570	61.36	-12.64	74	61.18	39.93	16.55	56.3	102	331	P	V
		11570	46.93	-7.07	54	46.75	39.93	16.55	56.3	102	331	A	V
		17355	52.56	-15.64	68.2	46.53	41.96	20.88	56.81	100	0	P	V
													V
802.11a CH 165 5825MHz		11650	58.36	-15.64	74	58.27	39.77	16.62	56.3	100	256	P	H
		11650	46.54	-7.46	54	46.45	39.77	16.62	56.3	100	256	A	H
		17475	49.82	-18.38	68.2	43.52	42.38	20.97	57.05	100	0	P	H
													H
		11650	57.07	-16.93	74	56.98	39.77	16.62	56.3	106	334	P	V
		11650	45.15	-8.85	54	45.06	39.77	16.62	56.3	106	334	A	V
		17475	49.88	-18.32	68.2	43.58	42.38	20.97	57.05	100	0	P	V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 4 5725~5850MHz

WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5643.2	54.6	-13.6	68.2	43.18	32.19	10.45	31.22	100	71	P	H
		5692.2	64.07	-35.38	99.45	52.56	32.27	10.49	31.25	100	71	P	H
		5719.8	74.03	-36.71	110.74	62.46	32.31	10.52	31.26	100	71	P	H
		5721.6	76.41	-38.04	114.45	64.84	32.31	10.52	31.26	100	71	P	H
	*	5745	114.88	-	-	103.27	32.34	10.54	31.27	100	71	P	H
	*	5745	103.69	-	-	92.08	32.34	10.54	31.27	100	71	A	H
802.11n													H
HT20													H
CH 149		5647.4	58.31	-9.89	68.2	46.88	32.19	10.46	31.22	100	89	P	V
5745MHz		5695.8	67.42	-34.68	102.1	55.9	32.27	10.5	31.25	100	89	P	V
		5720	74.86	-35.94	110.8	63.29	32.31	10.52	31.26	100	89	P	V
		5724.8	84.21	-37.53	121.74	72.64	32.31	10.52	31.26	100	89	P	V
	*	5745	116.83	-	-	105.22	32.34	10.54	31.27	100	89	P	V
	*	5745	106.17	-	-	94.56	32.34	10.54	31.27	100	89	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)
		5641.8	54.24	-13.96	68.2	42.82	32.19	10.45	31.22	100	74	P	H
		5699.6	56.79	-48.12	104.91	45.27	32.27	10.5	31.25	100	74	P	H
		5719.8	62.11	-48.63	110.74	50.54	32.31	10.52	31.26	100	74	P	H
		5724.8	62.68	-59.06	121.74	51.11	32.31	10.52	31.26	100	74	P	H
	*	5785	114.28	-	-	102.61	32.39	10.57	31.29	100	74	P	H
	*	5785	105.02	-	-	93.35	32.39	10.57	31.29	100	74	A	H
		5852.2	62.93	-54.25	117.18	51.15	32.48	10.62	31.32	100	74	P	H
		5855.4	61.51	-49.18	110.69	49.7	32.51	10.62	31.32	100	74	P	H
		5881	58.14	-42.6	100.74	46.3	32.53	10.64	31.33	100	74	P	H
		5936.8	55.41	-12.79	68.2	43.5	32.6	10.68	31.37	100	74	P	H
802.11n													H
HT20													H
CH 157		5613.4	54.03	-14.17	68.2	42.67	32.14	10.43	31.21	100	86	P	V
5785MHz		5696.6	55.05	-47.64	102.69	43.53	32.27	10.5	31.25	100	86	P	V
		5718.4	58.7	-51.65	110.35	47.14	32.31	10.51	31.26	100	86	P	V
		5720.8	59.19	-53.43	112.62	47.62	32.31	10.52	31.26	100	86	P	V
	*	5785	113.52	-	-	101.85	32.39	10.57	31.29	100	86	P	V
	*	5785	103.97	-	-	92.3	32.39	10.57	31.29	100	86	A	V
		5850.6	59.44	-61.39	120.83	47.66	32.48	10.62	31.32	100	86	P	V
		5855.4	58.33	-52.36	110.69	46.52	32.51	10.62	31.32	100	86	P	V
		5877	55.99	-47.72	103.71	44.15	32.53	10.64	31.33	100	86	P	V
		5932.2	54.91	-13.29	68.2	42.98	32.6	10.68	31.35	100	86	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	116.19	-	-	104.44	32.46	10.6	31.31	100	72	P	H
	*	5825	104.8	-	-	93.05	32.46	10.6	31.31	100	72	A	H
		5850.2	70.55	-51.19	121.74	58.77	32.48	10.62	31.32	100	72	P	H
		5855.6	69.79	-40.84	110.63	57.98	32.51	10.62	31.32	100	72	P	H
		5875.2	66.59	-38.46	105.05	54.75	32.53	10.64	31.33	100	72	P	H
		5928.2	57.79	-10.41	68.2	45.86	32.6	10.68	31.35	100	72	P	H
802.11n													H
HT20													H
CH 165	*	5825	114.38	-	-	102.63	32.46	10.6	31.31	100	92	P	V
5825MHz	*	5825	103.6	-	-	91.85	32.46	10.6	31.31	100	92	A	V
		5850.2	68.75	-52.99	121.74	56.97	32.48	10.62	31.32	100	92	P	V
		5872.8	62.77	-43.05	105.82	50.94	32.53	10.63	31.33	100	92	P	V
		5876.4	62.06	-42.1	104.16	50.22	32.53	10.64	31.33	100	92	P	V
		5936.6	55.78	-12.42	68.2	43.87	32.6	10.68	31.37	100	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 802.11n HT20 (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		11490	64.45	-9.55	74	64.15	40.11	16.49	56.3	216	230	P	H
		11490	49.71	-4.29	54	49.41	40.11	16.49	56.3	216	230	A	H
802.11n		17235	51.96	-16.24	68.2	46.21	41.54	20.78	56.57	100	0	P	H
HT20													H
CH 149		11490	62.37	-11.63	74	62.07	40.11	16.49	56.3	107	359	P	V
5745MHz		11490	47.56	-6.44	54	47.26	40.11	16.49	56.3	107	359	A	V
		17235	53.15	-15.05	68.2	47.4	41.54	20.78	56.57	100	0	P	V
													V
		11570	61.16	-12.84	74	60.98	39.93	16.55	56.3	100	145	P	H
		11570	47.24	-6.76	54	47.06	39.93	16.55	56.3	100	145	A	H
802.11n		17355	52.35	-15.85	68.2	46.32	41.96	20.88	56.81	100	0	P	H
HT20													H
CH 157		11570	61.15	-12.85	74	60.97	39.93	16.55	56.3	100	21	P	V
5785MHz		11570	46.77	-7.23	54	46.59	39.93	16.55	56.3	100	21	A	V
		17355	52.01	-16.19	68.2	45.98	41.96	20.88	56.81	100	0	P	V
													V
		11650	59.48	-14.52	74	59.39	39.77	16.62	56.3	100	145	P	H
		11650	45.5	-8.5	54	45.41	39.77	16.62	56.3	100	145	A	H
802.11n		17475	49.94	-18.26	68.2	43.64	42.38	20.97	57.05	100	0	P	H
HT20													H
CH 165		11650	59.65	-14.35	74	59.56	39.77	16.62	56.3	100	22	P	V
5825MHz		11650	44.75	-9.25	54	44.66	39.77	16.62	56.3	100	22	A	V
		17475	50.75	-17.45	68.2	44.45	42.38	20.97	57.05	100	0	P	V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 4 5725~5850MHz

WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5640.4	55.85	-12.35	68.2	44.43	32.19	10.45	31.22	100	72	P	H
		5698.6	64.64	-39.53	104.17	53.12	32.27	10.5	31.25	100	72	P	H
		5716.8	81.16	-28.75	109.91	69.62	32.29	10.51	31.26	100	72	P	H
		5724	80.18	-39.74	119.92	68.61	32.31	10.52	31.26	100	72	P	H
	*	5755	114.07	-	-	102.44	32.36	10.54	31.27	100	72	P	H
	*	5755	103.45	-	-	91.82	32.36	10.54	31.27	100	72	A	H
		5853.4	58.4	-56.05	114.45	46.62	32.48	10.62	31.32	100	72	P	H
		5857.4	58.36	-51.77	110.13	46.55	32.51	10.62	31.32	100	72	P	H
		5876	57.47	-46.99	104.46	45.63	32.53	10.64	31.33	100	72	P	H
		5926	55.39	-12.81	68.2	43.47	32.6	10.67	31.35	100	72	P	H
802.11n													H
HT40													H
CH 151		5649.4	58.22	-9.98	68.2	46.79	32.19	10.46	31.22	102	90	P	V
5755MHz		5698.6	68.19	-35.98	104.17	56.67	32.27	10.5	31.25	102	90	P	V
		5719.2	81.52	-29.06	110.58	69.95	32.31	10.52	31.26	102	90	P	V
		5723.8	80.36	-39.1	119.46	68.79	32.31	10.52	31.26	102	90	P	V
	*	5755	113.97	-	-	102.34	32.36	10.54	31.27	102	90	P	V
	*	5755	103.53	-	-	91.9	32.36	10.54	31.27	102	90	A	V
		5850	61.65	-60.55	122.2	49.87	32.48	10.62	31.32	102	90	P	V
		5859.4	59.82	-49.75	109.57	48.02	32.51	10.62	31.33	102	90	P	V
		5879.6	58.09	-43.69	101.78	46.25	32.53	10.64	31.33	102	90	P	V
		5925.8	54.68	-13.52	68.2	42.76	32.6	10.67	31.35	102	90	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)
		5613	54.25	-13.95	68.2	42.89	32.14	10.43	31.21	101	70	P	H
		5699.6	57.42	-47.49	104.91	45.9	32.27	10.5	31.25	101	70	P	H
		5719.8	60.76	-49.98	110.74	49.19	32.31	10.52	31.26	101	70	P	H
		5724.6	61.79	-59.5	121.29	50.22	32.31	10.52	31.26	101	70	P	H
	*	5795	113.6	-	-	101.9	32.41	10.58	31.29	101	70	P	H
	*	5795	102.84	-	-	91.14	32.41	10.58	31.29	101	70	A	H
		5854.2	65.35	-47.27	112.62	53.54	32.51	10.62	31.32	101	70	P	H
		5858	65.76	-44.2	109.96	53.96	32.51	10.62	31.33	101	70	P	H
		5877.8	62.34	-40.78	103.12	50.5	32.53	10.64	31.33	101	70	P	H
		5926.6	55.89	-12.31	68.2	43.97	32.6	10.67	31.35	101	70	P	H
802.11n													H
HT40													H
CH 159		5613.6	54.2	-14	68.2	42.84	32.14	10.43	31.21	108	89	P	V
5795MHz		5698.6	57.7	-46.47	104.17	46.18	32.27	10.5	31.25	108	89	P	V
		5719.4	59.9	-50.73	110.63	48.33	32.31	10.52	31.26	108	89	P	V
		5725	61.25	-60.95	122.2	49.68	32.31	10.52	31.26	108	89	P	V
	*	5795	113.28	-	-	101.58	32.41	10.58	31.29	108	89	P	V
	*	5795	103.19	-	-	91.49	32.41	10.58	31.29	108	89	A	V
		5851.4	65.1	-53.91	119.01	53.32	32.48	10.62	31.32	108	89	P	V
		5857.2	64.71	-45.47	110.18	52.9	32.51	10.62	31.32	108	89	P	V
		5875.4	61.44	-43.46	104.9	49.6	32.53	10.64	31.33	108	89	P	V
		5926.8	55.8	-12.4	68.2	43.87	32.6	10.68	31.35	108	89	P	V
													V
													V

Remark

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

Band 4 5725~5850MHz

WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		11510	60.37	-13.63	74	60.07	40.1	16.5	56.3	100	34	P	H
		11510	48.29	-5.71	54	47.99	40.1	16.5	56.3	100	34	A	H
802.11n		17265	50.31	-17.89	68.2	44.47	41.66	20.81	56.63	100	0	P	H
HT40													H
CH 151		11510	57.95	-16.05	74	57.65	40.1	16.5	56.3	100	359	P	V
5755MHz		11510	46.59	-7.41	54	46.29	40.1	16.5	56.3	100	359	A	V
		17265	50.78	-17.42	68.2	44.94	41.66	20.81	56.63	100	0	P	V
													V
		11590	58.43	-15.57	74	58.27	39.89	16.57	56.3	100	35	P	H
		11590	46.68	-7.32	54	46.52	39.89	16.57	56.3	100	35	A	H
802.11n		17385	50.41	-17.79	68.2	44.3	42.08	20.9	56.87	100	0	P	H
HT40													H
CH 159		11590	57.1	-16.9	74	56.94	39.89	16.57	56.3	100	357	P	V
5795MHz		11590	45.57	-8.43	54	45.41	39.89	16.57	56.3	100	357	A	V
		17385	50.21	-17.99	68.2	44.1	42.08	20.9	56.87	100	0	P	V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 4 5725~5850MHz

WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5642.8	56.15	-12.05	68.2	44.73	32.19	10.45	31.22	100	72	P	H
		5697.2	73.09	-30.05	103.14	61.57	32.27	10.5	31.25	100	72	P	H
		5717.2	78.14	-31.88	110.02	66.6	32.29	10.51	31.26	100	72	P	H
		5725	78.98	-43.22	122.2	67.41	32.31	10.52	31.26	100	72	P	H
	*	5775	110.36	-	-	98.69	32.39	10.56	31.28	100	72	P	H
	*	5775	99.59	-	-	87.92	32.39	10.56	31.28	100	72	A	H
		5851.2	74.61	-44.85	119.46	62.83	32.48	10.62	31.32	100	72	P	H
		5866	73.09	-34.63	107.72	61.28	32.51	10.63	31.33	100	72	P	H
		5885	65.54	-32.23	97.77	53.71	32.53	10.64	31.34	100	72	P	H
		5930.6	54.61	-13.59	68.2	42.68	32.6	10.68	31.35	100	72	P	H
802.11ac													H
VHT80													H
CH 155		5645.2	56.84	-11.36	68.2	45.41	32.19	10.46	31.22	100	89	P	V
5775MHz		5699.8	75.09	-29.96	105.05	63.57	32.27	10.5	31.25	100	89	P	V
		5717.2	79.38	-30.64	110.02	67.84	32.29	10.51	31.26	100	89	P	V
		5724.6	80.67	-40.62	121.29	69.1	32.31	10.52	31.26	100	89	P	V
	*	5775	110.34	-	-	98.67	32.39	10.56	31.28	100	89	P	V
	*	5775	100.1	-	-	88.43	32.39	10.56	31.28	100	89	A	V
		5850.4	77.25	-44.04	121.29	65.47	32.48	10.62	31.32	100	89	P	V
		5865.4	74.61	-33.28	107.89	62.8	32.51	10.63	31.33	100	89	P	V
		5885.2	67.69	-29.94	97.63	55.86	32.53	10.64	31.34	100	89	P	V
		5927.4	54.81	-13.39	68.2	42.88	32.6	10.68	31.35	100	89	P	V
													V
													V

Remark

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

Band 4 5725~5850MHz

WIFI 802.11ac VHT80 (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		11550	59.71	-14.29	74	59.49	39.98	16.54	56.3	100	53	P	H
		11550	44.64	-9.36	54	44.42	39.98	16.54	56.3	100	53	A	H
802.11ac		17325	50.26	-17.94	68.2	44.32	41.84	20.85	56.75	100	0	P	H
VHT80													H
CH 155		11550	57.38	-16.62	74	57.16	39.98	16.54	56.3	100	355	P	V
5775MHz		11550	44.42	-9.58	54	44.2	39.98	16.54	56.3	100	355	A	V
		17325	49.57	-18.63	68.2	43.63	41.84	20.85	56.75	100	0	P	V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Emission below 1GHz

5GHz WIFI 802.11a (LF @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
5GHz 802.11a LF		39.45	25.05	-14.95	40	35.26	19.28	0.84	30.33	-	-	P	H
		58.89	23.1	-16.9	40	40.61	11.86	1.09	30.46	-	-	P	H
		127.2	27.87	-15.63	43.5	39.29	17.4	1.58	30.4	-	-	P	H
		765.5	31.29	-14.71	46	28.84	27.95	3.87	29.37	-	-	P	H
		868.4	33.63	-12.37	46	29.61	29.06	4.15	29.19	100	0	P	H
		970.6	35.35	-18.65	54	29.01	30.82	4.46	28.94	-	-	P	H
													H
													H
													H
													H
													H
													H
		34.32	30.66	-9.34	40	37.67	22.49	0.76	30.26	100	0	P	V
		66.45	28.84	-11.16	40	46.18	11.97	1.15	30.46	-	-	P	V
		78.33	30.08	-9.92	40	46.16	13.11	1.26	30.45	-	-	P	V
		570.9	29.47	-16.53	46	29.94	25.85	3.35	29.67	-	-	P	V
		867	33.89	-12.11	46	29.88	29.05	4.15	29.19	-	-	P	V
		948.9	35	-11	46	29.05	30.52	4.43	29	-	-	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.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
1+2		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		5626.4	54.92	-13.28	68.2	43.52	32.17	10.44	31.21	104	97	P	H
		5696.8	61.09	-41.75	102.84	49.57	32.27	10.5	31.25	104	97	P	H
		5720	68.52	-42.28	110.8	56.95	32.31	10.52	31.26	104	97	P	H
		5724.6	78.02	-43.27	121.29	66.45	32.31	10.52	31.26	104	97	P	H
	*	5745	112.81	-	-	101.2	32.34	10.54	31.27	104	97	P	H
	*	5745	100.97	-	-	89.36	32.34	10.54	31.27	104	97	A	H
802.11ac													H
VHT20													H
CH 149		5642.6	54.44	-13.76	68.2	43.02	32.19	10.45	31.22	101	108	P	V
5745MHz		5699.6	58.6	-46.31	104.91	47.08	32.27	10.5	31.25	101	108	P	V
		5720	66.86	-43.94	110.8	55.29	32.31	10.52	31.26	101	108	P	V
		5724.8	77.7	-44.04	121.74	66.13	32.31	10.52	31.26	101	108	P	V
	*	5745	114.25	-	-	102.64	32.34	10.54	31.27	101	108	P	V
	*	5745	101.3	-	-	89.69	32.34	10.54	31.27	101	108	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)
		5642.8	54.67	-13.53	68.2	43.25	32.19	10.45	31.22	100	224	P	H
		5698.4	54.51	-49.51	104.02	42.99	32.27	10.5	31.25	100	224	P	H
		5714.2	55.6	-53.58	109.18	44.06	32.29	10.51	31.26	100	224	P	H
		5723.6	56.49	-62.52	119.01	44.92	32.31	10.52	31.26	100	224	P	H
	*	5785	112.62	-	-	100.95	32.39	10.57	31.29	100	224	P	H
	*	5785	100.31	-	-	88.64	32.39	10.57	31.29	100	224	A	H
		5851.4	58.96	-60.05	119.01	47.18	32.48	10.62	31.32	100	224	P	H
		5857.6	58.16	-51.91	110.07	46.35	32.51	10.62	31.32	100	224	P	H
		5878.8	55.98	-46.4	102.38	44.14	32.53	10.64	31.33	100	224	P	H
		5949.8	55.17	-13.03	68.2	43.22	32.63	10.69	31.37	100	224	P	H
802.11ac													H
VHT20													H
CH 157		5632	54.08	-14.12	68.2	42.68	32.17	10.45	31.22	100	108	P	V
5785MHz		5700	57.7	-47.5	105.2	46.18	32.27	10.5	31.25	100	108	P	V
		5719.4	61.25	-49.38	110.63	49.68	32.31	10.52	31.26	100	108	P	V
		5724.8	61.77	-59.97	121.74	50.2	32.31	10.52	31.26	100	108	P	V
	*	5785	113.48	-	-	101.81	32.39	10.57	31.29	100	108	P	V
	*	5785	101.73	-	-	90.06	32.39	10.57	31.29	100	108	A	V
		5851.2	63.26	-56.2	119.46	51.48	32.48	10.62	31.32	100	108	P	V
		5857.8	60.69	-49.32	110.01	48.89	32.51	10.62	31.33	100	108	P	V
		5876.6	57.68	-46.33	104.01	45.84	32.53	10.64	31.33	100	108	P	V
		5947	55.16	-13.04	68.2	43.21	32.63	10.69	31.37	100	108	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	114.06	-	-	102.31	32.46	10.6	31.31	104	222	P	H
	*	5825	101.39	-	-	89.64	32.46	10.6	31.31	104	222	A	H
		5850	68.71	-53.49	122.2	56.93	32.48	10.62	31.32	104	222	P	H
		5855.6	64.02	-46.61	110.63	52.21	32.51	10.62	31.32	104	222	P	H
		5879	60.55	-41.68	102.23	48.71	32.53	10.64	31.33	104	222	P	H
		5948.6	55.26	-12.94	68.2	43.31	32.63	10.69	31.37	104	222	P	H
802.11ac													H
VHT20													H
CH 165	*	5825	113.7	-	-	101.95	32.46	10.6	31.31	100	109	P	V
5825MHz	*	5825	101.53	-	-	89.78	32.46	10.6	31.31	100	109	A	V
		5850.2	70.15	-51.59	121.74	58.37	32.48	10.62	31.32	100	109	P	V
		5855.8	65.91	-44.67	110.58	54.1	32.51	10.62	31.32	100	109	P	V
		5876.2	64.28	-40.03	104.31	52.44	32.53	10.64	31.33	100	109	P	V
		5927.8	55.52	-12.68	68.2	43.59	32.6	10.68	31.35	100	109	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	56.4	-17.6	74	56.1	40.11	16.49	56.3	109	195	P	H
		11490	43.97	-10.03	54	43.67	40.11	16.49	56.3	109	195	A	H
802.11ac		17235	51.07	-17.13	68.2	45.32	41.54	20.78	56.57	100	0	P	H
VHT20													H
CH 149		11490	56.73	-17.27	74	56.43	40.11	16.49	56.3	100	133	P	V
5745MHz		11490	44.37	-9.63	54	44.07	40.11	16.49	56.3	100	133	A	V
		17235	51.48	-16.72	68.2	45.73	41.54	20.78	56.57	100	0	P	V
													V
		11570	56.5	-17.5	74	56.32	39.93	16.55	56.3	107	195	P	H
		11570	44.13	-9.87	54	43.95	39.93	16.55	56.3	107	195	A	H
802.11ac		17355	50.34	-17.86	68.2	44.31	41.96	20.88	56.81	100	0	P	H
VHT20													H
CH 157		11570	57.31	-16.69	74	57.13	39.93	16.55	56.3	109	27	P	V
5785MHz		11570	44.83	-9.17	54	44.65	39.93	16.55	56.3	109	27	A	V
		17355	50.52	-17.68	68.2	44.49	41.96	20.88	56.81	100	0	P	V
													V
		11650	55.28	-18.72	74	55.19	39.77	16.62	56.3	100	185	P	H
		11650	42.33	-11.67	54	42.24	39.77	16.62	56.3	100	185	A	H
802.11ac		17475	49.31	-18.89	68.2	43.01	42.38	20.97	57.05	100	0	P	H
VHT20													H
CH 165		11650	56.61	-17.39	74	56.52	39.77	16.62	56.3	100	131	P	V
5825MHz		11650	43.31	-10.69	54	43.22	39.77	16.62	56.3	100	131	A	V
		17475	50.05	-18.15	68.2	43.75	42.38	20.97	57.05	100	0	P	V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 4 5725~5850MHz

WIFI 802.11ac VHT40 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5644.6	54.44	-13.76	68.2	43.01	32.19	10.46	31.22	101	223	P	H
		5698.6	60.91	-43.26	104.17	49.39	32.27	10.5	31.25	101	223	P	H
		5718.4	75.42	-34.93	110.35	63.86	32.31	10.51	31.26	101	223	P	H
		5722.2	76	-39.82	115.82	64.43	32.31	10.52	31.26	101	223	P	H
	*	5755	110.04	-	-	98.41	32.36	10.54	31.27	101	223	P	H
	*	5755	96.75	-	-	85.12	32.36	10.54	31.27	101	223	A	H
		5850	55.96	-66.24	122.2	44.18	32.48	10.62	31.32	101	223	P	H
		5862	55.72	-53.12	108.84	43.91	32.51	10.63	31.33	101	223	P	H
		5890.6	55.27	-38.35	93.62	43.4	32.56	10.65	31.34	101	223	P	H
		5927.8	54.91	-13.29	68.2	42.98	32.6	10.68	31.35	101	223	P	H
802.11ac													H
VHT40													H
CH 151		5647.4	56.87	-11.33	68.2	45.44	32.19	10.46	31.22	102	108	P	V
5755MHz		5699	66.58	-37.88	104.46	55.06	32.27	10.5	31.25	102	108	P	V
		5717.6	80.05	-30.08	110.13	68.49	32.31	10.51	31.26	102	108	P	V
		5720.6	83.36	-28.81	112.17	71.79	32.31	10.52	31.26	102	108	P	V
	*	5755	110.55	-	-	98.92	32.36	10.54	31.27	102	108	P	V
	*	5755	97.36	-	-	85.73	32.36	10.54	31.27	102	108	A	V
		5852.4	59.13	-57.6	116.73	47.35	32.48	10.62	31.32	102	108	P	V
		5860.6	58.5	-50.73	109.23	46.69	32.51	10.63	31.33	102	108	P	V
		5880.8	56.8	-44.09	100.89	44.96	32.53	10.64	31.33	102	108	P	V
		5929.8	55.97	-12.23	68.2	44.04	32.6	10.68	31.35	102	108	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)
		5643.6	53.64	-14.56	68.2	42.22	32.19	10.45	31.22	100	223	P	H
		5684.8	54.9	-39.09	93.99	43.39	32.27	10.49	31.25	100	223	P	H
		5716.8	57.07	-52.84	109.91	45.53	32.29	10.51	31.26	100	223	P	H
		5721.6	56.21	-58.24	114.45	44.64	32.31	10.52	31.26	100	223	P	H
	*	5795	110.56	-	-	98.86	32.41	10.58	31.29	100	223	P	H
	*	5795	97.59	-	-	85.89	32.41	10.58	31.29	100	223	A	H
		5854.6	65.01	-46.7	111.71	53.2	32.51	10.62	31.32	100	223	P	H
		5858.8	62.36	-47.37	109.73	50.56	32.51	10.62	31.33	100	223	P	H
		5876	58.47	-45.99	104.46	46.63	32.53	10.64	31.33	100	223	P	H
		5946.6	56.17	-12.03	68.2	44.22	32.63	10.69	31.37	100	223	P	H
802.11ac													H
VHT40													H
CH 159		5627.8	54.39	-13.81	68.2	42.99	32.17	10.44	31.21	107	109	P	V
5795MHz		5696.2	60.19	-42.21	102.4	48.67	32.27	10.5	31.25	107	109	P	V
		5719.6	62.79	-47.9	110.69	51.22	32.31	10.52	31.26	107	109	P	V
		5722.6	64	-52.73	116.73	52.43	32.31	10.52	31.26	107	109	P	V
	*	5795	110.45	-	-	98.75	32.41	10.58	31.29	107	109	P	V
	*	5795	97.77	-	-	86.07	32.41	10.58	31.29	107	109	A	V
		5850.6	66.5	-54.33	120.83	54.72	32.48	10.62	31.32	107	109	P	V
		5858.8	66.08	-43.65	109.73	54.28	32.51	10.62	31.33	107	109	P	V
		5876.6	62.54	-41.47	104.01	50.7	32.53	10.64	31.33	107	109	P	V
		5932.6	55.97	-12.23	68.2	44.04	32.6	10.68	31.35	107	109	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	56.51	-17.49	74	56.21	40.1	16.5	56.3	100	195	P	H
		11510	40.5	-13.5	54	40.2	40.1	16.5	56.3	100	195	A	H
802.11ac		17265	50.99	-17.21	68.2	45.15	41.66	20.81	56.63	100	0	P	H
VHT40													H
CH 151		11510	57.07	-16.93	74	56.77	40.1	16.5	56.3	100	131	P	V
5755MHz		11510	41.23	-12.77	54	40.93	40.1	16.5	56.3	100	131	A	V
		17265	50.43	-17.77	68.2	44.59	41.66	20.81	56.63	100	0	P	V
													V
		11590	55.22	-18.78	74	55.06	39.89	16.57	56.3	106	193	P	H
		11590	40.29	-13.71	54	40.13	39.89	16.57	56.3	106	193	A	H
802.11ac		17385	50.61	-17.59	68.2	44.5	42.08	20.9	56.87	100	0	P	H
VHT40													H
CH 159		11590	54.86	-19.14	74	54.7	39.89	16.57	56.3	100	100	P	V
5795MHz		11590	40.26	-13.74	54	40.1	39.89	16.57	56.3	100	100	A	V
		17385	50.77	-17.43	68.2	44.66	42.08	20.9	56.87	100	0	P	V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 4 5725~5850MHz

WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5640	54.53	-13.67	68.2	43.11	32.19	10.45	31.22	109	91	P	H
		5699	66.75	-37.71	104.46	55.23	32.27	10.5	31.25	109	91	P	H
		5714.4	70.9	-38.33	109.23	59.36	32.29	10.51	31.26	109	91	P	H
		5724.6	72.59	-48.7	121.29	61.02	32.31	10.52	31.26	109	91	P	H
	*	5775	107.41	-	-	95.74	32.39	10.56	31.28	109	91	P	H
	*	5775	92.76	-	-	81.09	32.39	10.56	31.28	109	91	A	H
		5852.4	68.2	-48.53	116.73	56.42	32.48	10.62	31.32	109	91	P	H
		5855.2	67.65	-43.09	110.74	55.84	32.51	10.62	31.32	109	91	P	H
		5879.2	59.62	-42.46	102.08	47.78	32.53	10.64	31.33	109	91	P	H
		5931.2	54.04	-14.16	68.2	42.11	32.6	10.68	31.35	109	91	P	H
802.11ac													H
VHT80													H
CH 155		5633.2	55.73	-12.47	68.2	44.31	32.19	10.45	31.22	100	108	P	V
5775MHz		5698.6	66.22	-37.95	104.17	54.7	32.27	10.5	31.25	100	108	P	V
		5717.8	70.78	-39.4	110.18	59.22	32.31	10.51	31.26	100	108	P	V
		5723	70.69	-46.95	117.64	59.12	32.31	10.52	31.26	100	108	P	V
	*	5775	108.13	-	-	96.46	32.39	10.56	31.28	100	108	P	V
	*	5775	93.75	-	-	82.08	32.39	10.56	31.28	100	108	A	V
		5851	67.24	-52.68	119.92	55.46	32.48	10.62	31.32	100	108	P	V
		5856.8	65.94	-44.36	110.3	54.13	32.51	10.62	31.32	100	108	P	V
		5876.4	60.03	-44.13	104.16	48.19	32.53	10.64	31.33	100	108	P	V
		5937.6	54.92	-13.28	68.2	43.01	32.6	10.68	31.37	100	108	P	V
													V
													V

Remark

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

Band 4 5725~5850MHz

WIFI 802.11ac VHT80 (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		11550	53.28	-20.72	74	53.06	39.98	16.54	56.3	100	185	P	H
		11550	38.56	-15.44	54	38.34	39.98	16.54	56.3	100	185	A	H
802.11ac		17325	51.19	-17.01	68.2	45.25	41.84	20.85	56.75	100	0	P	H
VHT80													H
CH 155		11550	53.46	-20.54	74	53.24	39.98	16.54	56.3	100	130	P	V
5775MHz		11550	39.07	-14.93	54	38.85	39.98	16.54	56.3	100	130	A	V
		17325	51.09	-17.11	68.2	45.15	41.84	20.85	56.75	100	0	P	V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average 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	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
0		(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 :	Jack Cheng, Lance Chiang, and Peter Liao	**Temperature :**	22~25°C
		Relative Humidity :	53~67%

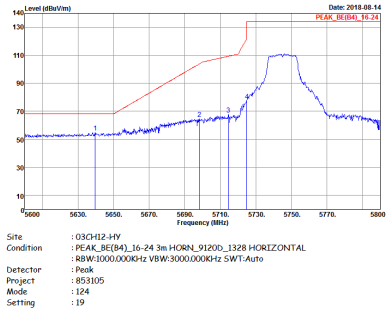
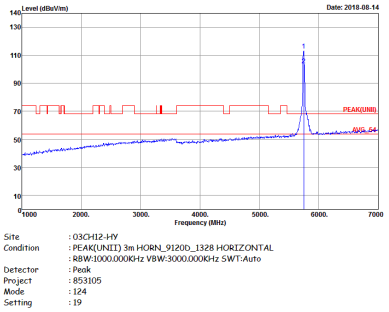
Note symbol

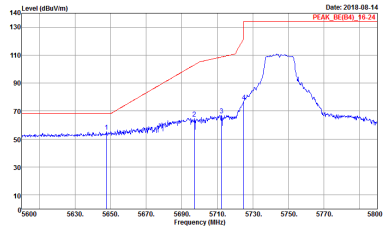
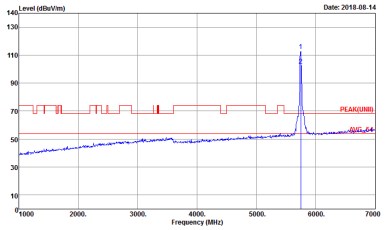
-L	**Low channel location**
-R	**High channel location**

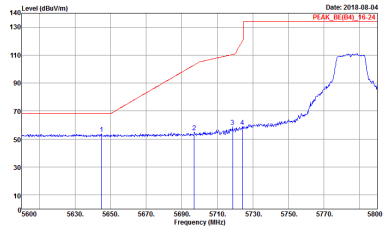
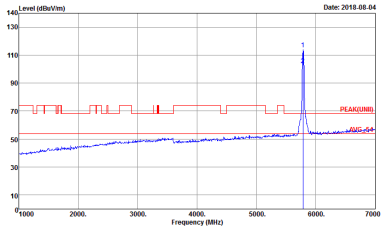
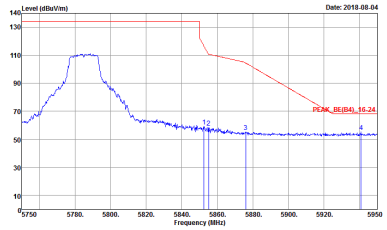
<CDD Mode>

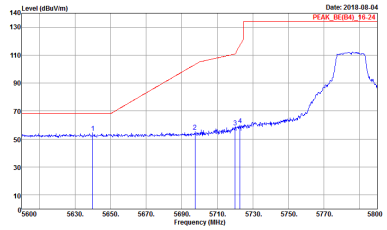
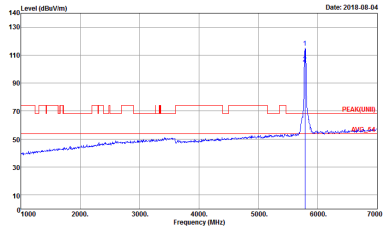
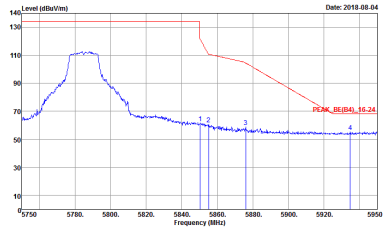
Band 4 - 5725~5850MHz

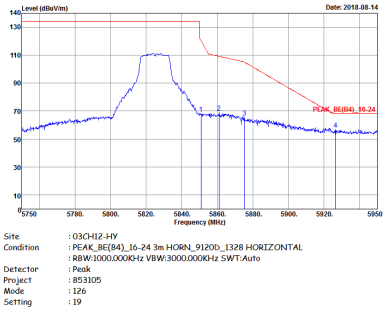
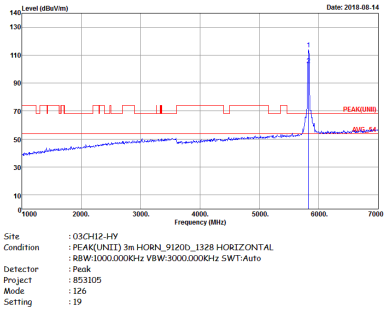
WIFI 802.11a (Band Edge @ 3m)

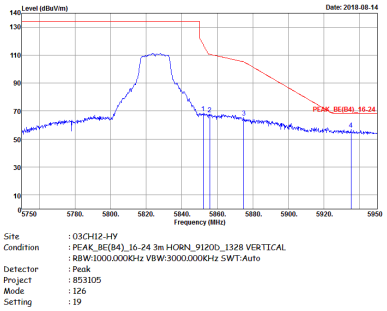
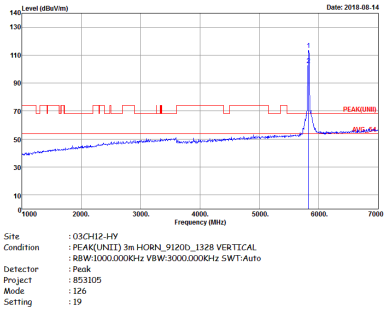
WIFI	**Band 4 5725~5850MHz Band Edge @ 3m**	
ANT	**802.11a CH149 5745MHz**	
1	**Horizontal**	**Fundamental**
Peak		

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH149 5745MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1328 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 853105 Mode : 124 Setting : 19	 Site : 03CH12-HY Condition : PEAK(UNII) 3m HORN_9120D_1328 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 853105 Mode : 124 Setting : 19

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH157 5785MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1328 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 853105 Mode : 125 Setting : 19	 Site : 03CH12-HY Condition : PEAK(UNII) 3m HORN_9120D_1328 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 853105 Mode : 125 Setting : 19
Peak	 Site : 03CH12-HY Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1328 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 853105 Mode : 125 Setting : 19	Left blank

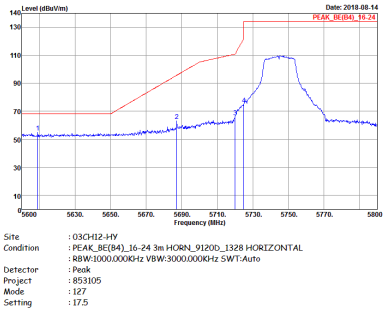
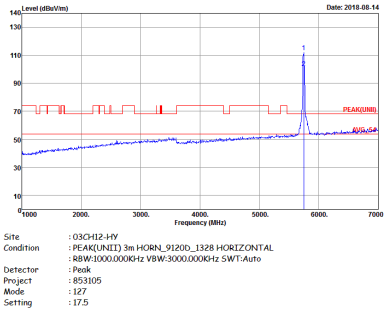
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH157 5785MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1328 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 853105 Mode : 125 Setting : 19	 Site : 03CH12-HY Condition : PEAK(UNII) 3m HORN_9120D_1328 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 853105 Mode : 125 Setting : 19
Peak	 Site : 03CH12-HY Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1328 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 853105 Mode : 125 Setting : 19	Left blank

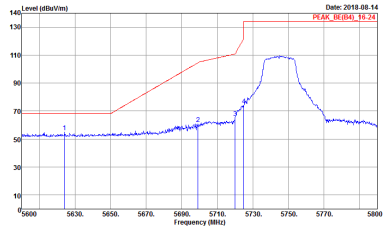
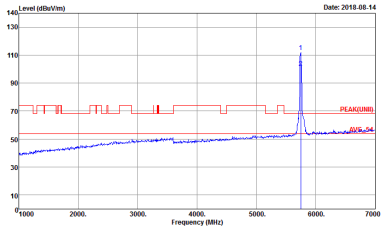
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH165 5825MHz	
1	Horizontal	Fundamental
Peak		

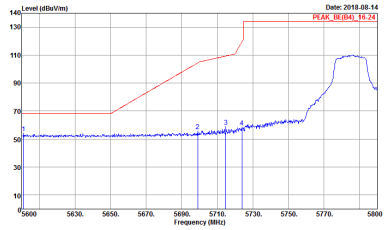
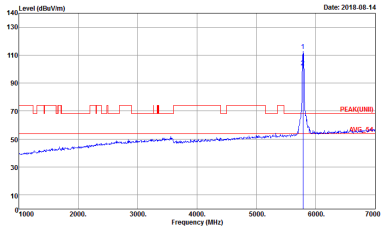
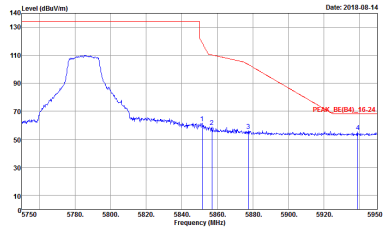
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH165 5825MHz	
1	Vertical	Fundamental
Peak		

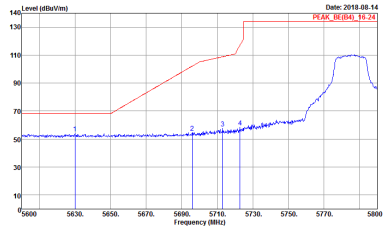
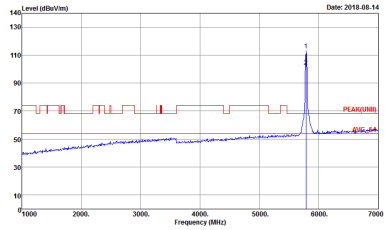
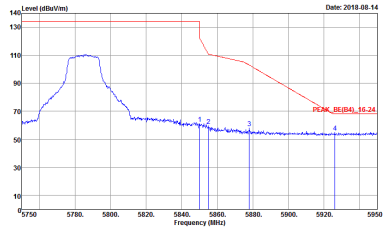
Band 4 5725~5850MHz

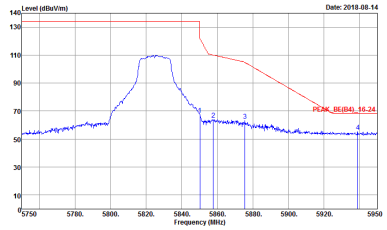
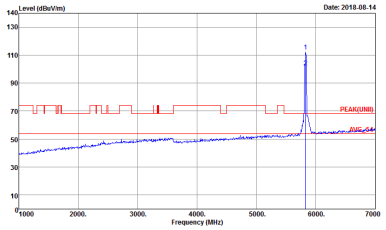
WIFI 802.11n HT20 (Band Edge @ 3m)

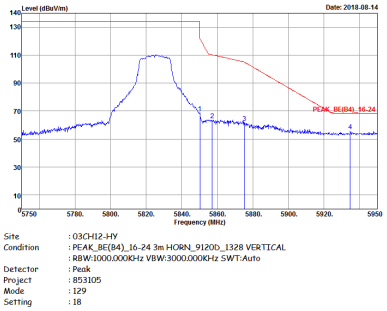
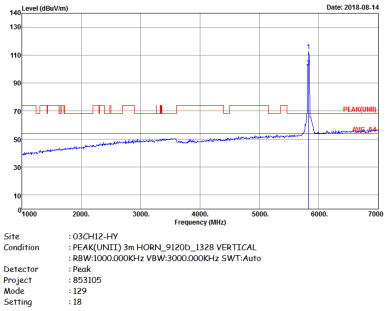
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH149 5745MHz	
1	Horizontal	Fundamental
Peak		

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH149 5745MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1328 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 853105 Mode : 127 Setting : 17.5	 Site : 03CH12-HY Condition : PEAK(UNII) 3m HORN_9120D_1328 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 853105 Mode : 127 Setting : 17.5

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH157 5785MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1328 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 853105 Mode : 128 Setting : 18	 Site : 03CH12-HY Condition : PEAK(UNII) 3m HORN_9120D_1328 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 853105 Mode : 128 Setting : 18
Peak	 Site : 03CH12-HY Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1328 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 853105 Mode : 128 Setting : 18	Left blank

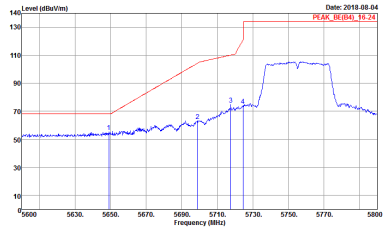
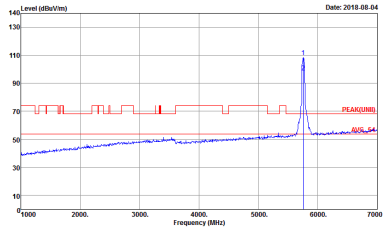
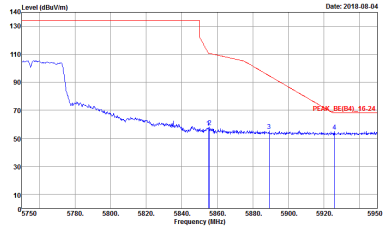
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH157 5785MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1328 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 853105 Mode : 128 Setting : 18	 Site : 03CH12-HY Condition : PEAK(UNII) 3m HORN_9120D_1328 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 853105 Mode : 128 Setting : 18
Peak	 Site : 03CH12-HY Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1328 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 853105 Mode : 128 Setting : 18	Left blank

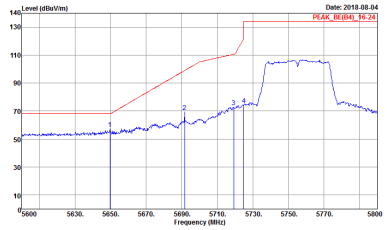
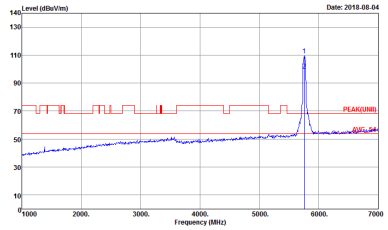
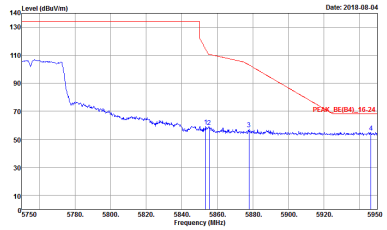
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH165 5825MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1328 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 853105 Mode : 129 Setting : 18	 Site : 03CH12-HY Condition : PEAK(UNII) 3m HORN_9120D_1328 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 853105 Mode : 129 Setting : 18

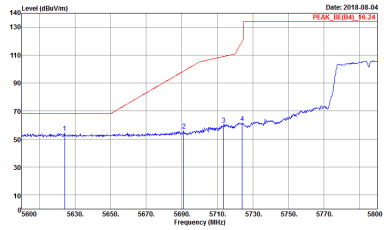
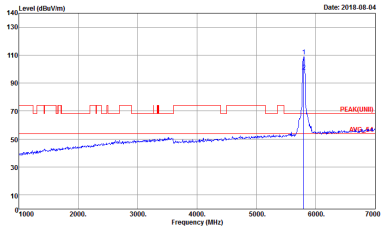
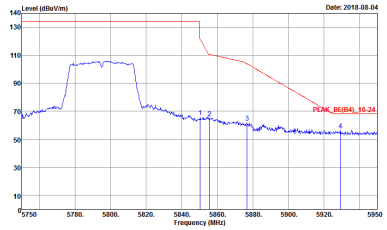
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH165 5825MHz	
1	Vertical	Fundamental
Peak		

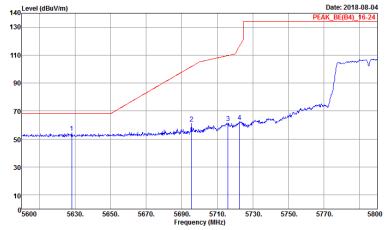
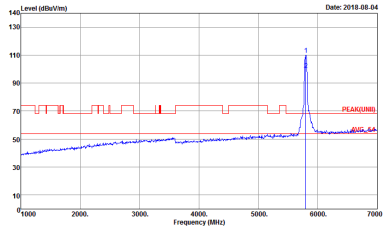
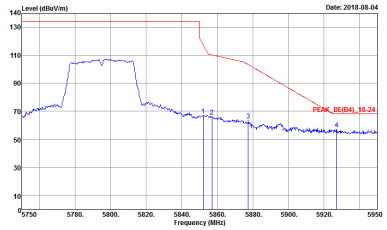
Band 4 5725~5850MHz

WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT40 CH151 5755MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1328 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 853105 Mode : 130 Setting : 16	 Site : 03CH12-HY Condition : PEAK(UNII) 3m HORN_9120D_1328 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 853105 Mode : 130 Setting : 16
Peak	 Site : 03CH12-HY Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1328 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 853105 Mode : 130 Setting : 16	Left blank

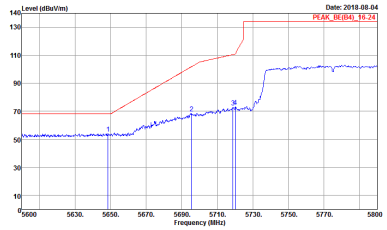
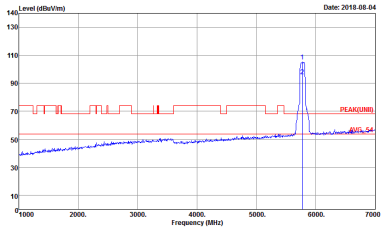
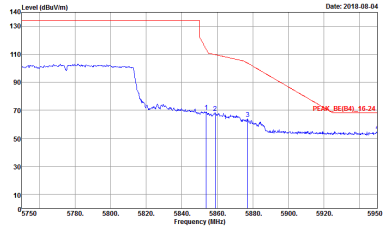
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT40 CH151 5755MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1328 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 853105 Mode : 130 Setting : 16	 Site : 03CH12-HY Condition : PEAK(UNII) 3m HORN_9120D_1328 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 853105 Mode : 130 Setting : 16
Peak	 Site : 03CH12-HY Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1328 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 853105 Mode : 130 Setting : 16	Left blank

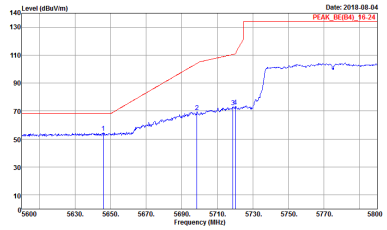
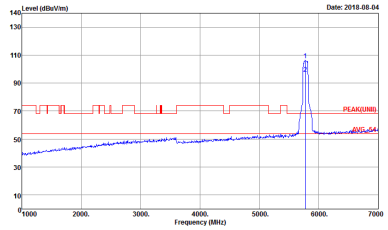
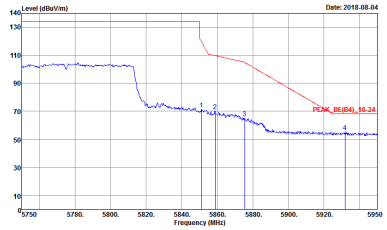
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT40 CH159 5795MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1328 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 853105 Mode : 131 Setting : 16	 Site : 03CH12-HY Condition : PEAK(UNII) 3m HORN_9120D_1328 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 853105 Mode : 131 Setting : 16
Peak	 Site : 03CH12-HY Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1328 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 853105 Mode : 131 Setting : 16	Left blank

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT40 CH159 5795MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1328 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 853105 Mode : 131 Setting : 16	 Site : 03CH12-HY Condition : PEAK(UNII) 3m HORN_9120D_1328 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 853105 Mode : 131 Setting : 16
Peak	 Site : 03CH12-HY Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1328 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 853105 Mode : 131 Setting : 16	Left blank

Band 4 5725~5850MHz

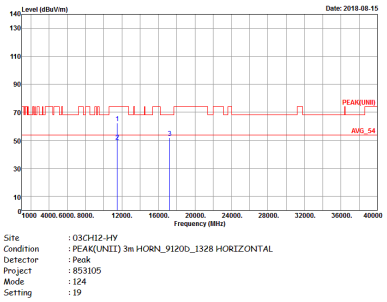
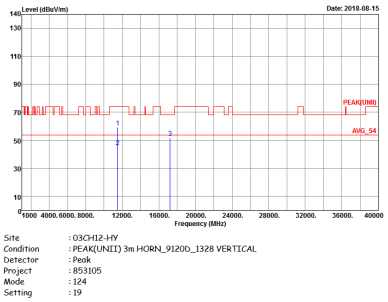
WIFI 802.11ac VHT80 (Band Edge @ 3m)

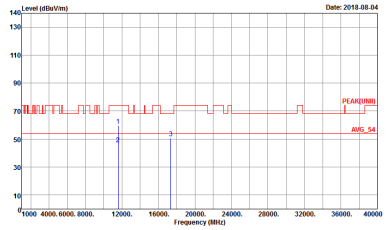
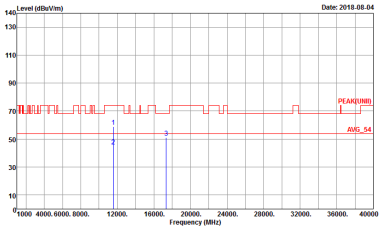
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH155 5775MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1328 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 853105 Mode : 132 Setting : 16.5	 Site : 03CH12-HY Condition : PEAK(UNII) 3m HORN_9120D_1328 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 853105 Mode : 132 Setting : 16.5
Peak	 Site : 03CH12-HY Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1328 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 853105 Mode : 132 Setting : 16.5	Left blank

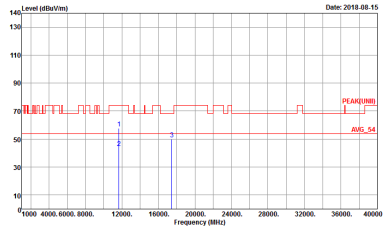
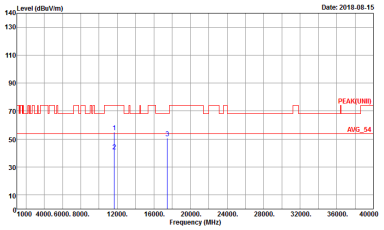
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH155 5775MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1328 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 853105 Mode : 132 Setting : 16.5	 Site : 03CH12-HY Condition : PEAK(UNII) 3m HORN_9120D_1328 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 853105 Mode : 132 Setting : 16.5
Peak	 Site : 03CH12-HY Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1328 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 853105 Mode : 132 Setting : 16.5	Left blank

Band 4 - 5725~5850MHz

WIFI 802.11a (Harmonic @ 3m)

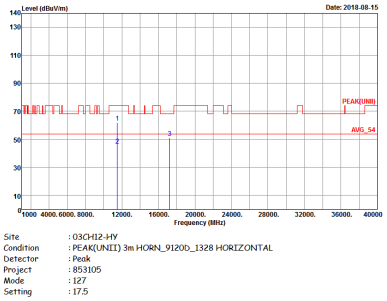
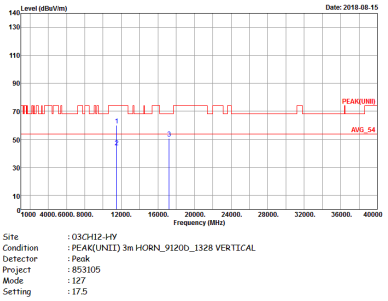
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH149 5745MHz	
1	Horizontal	Vertical
Peak Avg.		

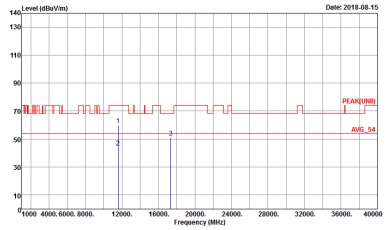
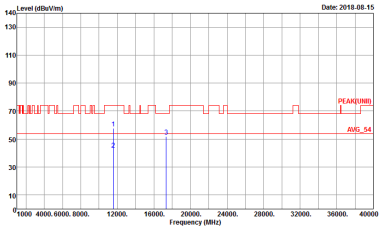
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH157 5785MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH12-HY Condition : PEAK(UNII) 3m HORN_9120D_1328 HORIZONTAL Detector : Peak Project : 853105 Mode : 125 Setting : 19	 Site : 03CH12-HY Condition : PEAK(UNII) 3m HORN_9120D_1328 VERTICAL Detector : Peak Project : 853105 Mode : 125 Setting : 19

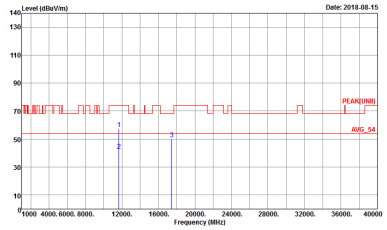
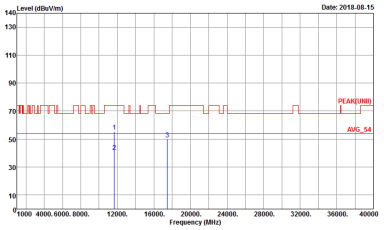
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH165 5825MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH12-HY Condition : PEAK(UNII) 3m HORN_9120D_1328 HORIZONTAL Detector : Peak Project : 853105 Mode : 126 Setting : 19	 Site : 03CH12-HY Condition : PEAK(UNII) 3m HORN_9120D_1328 VERTICAL Detector : Peak Project : 853105 Mode : 126 Setting : 19

Band 4 5725~5850MHz

WIFI 802.11n HT20 (Harmonic @ 3m)

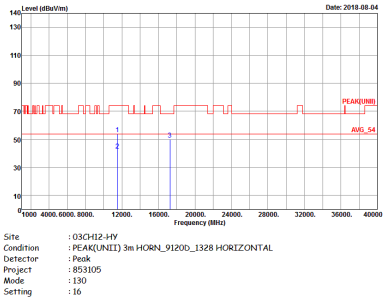
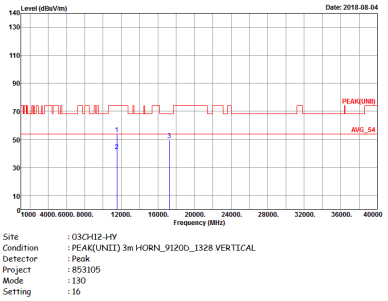
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11n HT20 CH149 5745MHz	
1	Horizontal	Vertical
Peak Avg.		

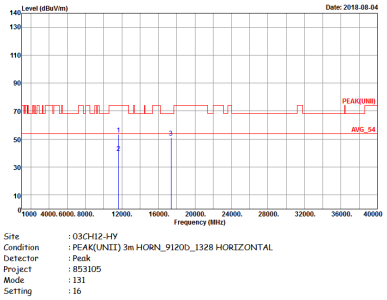
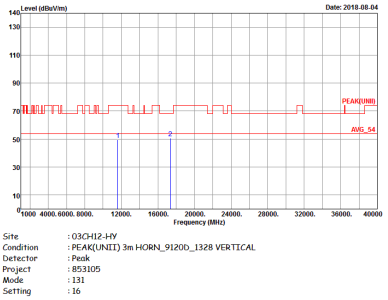
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11n HT20 CH157 5785MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH12-HY Condition : PEAK(UNII) 3m HORN_9120D_1328 HORIZONTAL Detector : Peak Project : 853105 Mode : 128 Setting : 18	 Site : 03CH12-HY Condition : PEAK(UNII) 3m HORN_9120D_1328 VERTICAL Detector : Peak Project : 853105 Mode : 128 Setting : 18

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11n HT20 CH165 5825MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH12-HY Condition : PEAK(UNII) 3m HORN_9120D_1328 HORIZONTAL Detector : Peak Project : 853105 Mode : 129 Setting : 18	 Site : 03CH12-HY Condition : PEAK(UNII) 3m HORN_9120D_1328 VERTICAL Detector : Peak Project : 853105 Mode : 129 Setting : 18

Band 4 5725~5850MHz

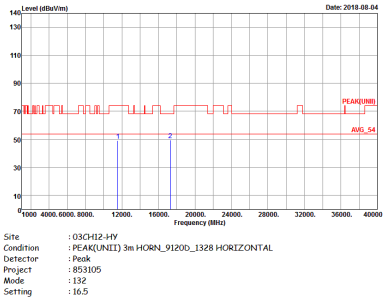
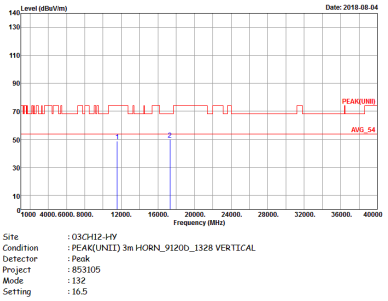
WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11n HT40 CH151 5755MHz	
1	Horizontal	Vertical
Peak Avg.		

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11n HT40 CH159 5795MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH12-HY Condition : PEAK(UNII) 3m HORN_9120D_1328 HORIZONTAL Detector : Peak Project : 853105 Mode : 131 Setting : 16	 Site : 03CH12-HY Condition : PEAK(UNII) 3m HORN_9120D_1328 VERTICAL Detector : Peak Project : 853105 Mode : 131 Setting : 16

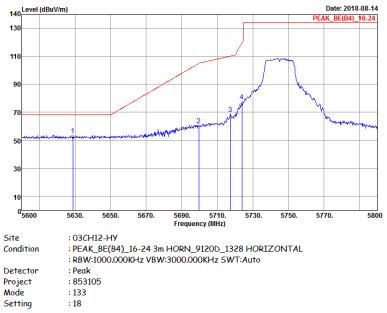
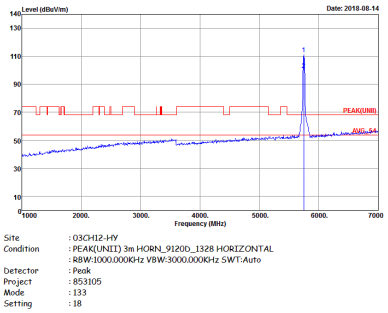
Band 4 5725~5850MHz

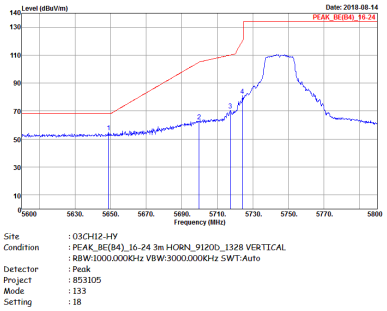
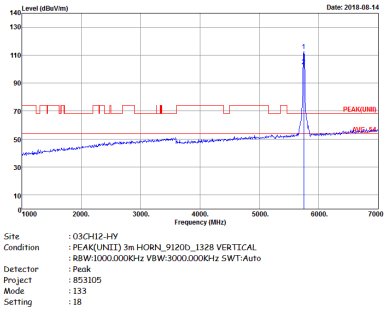
WIFI 802.11ac VHT80 (Harmonic @ 3m)

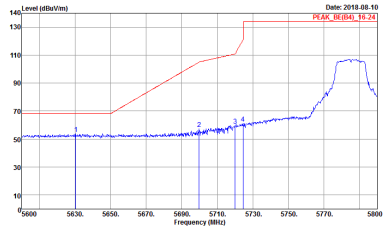
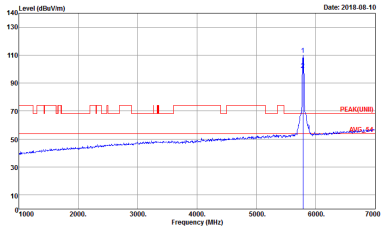
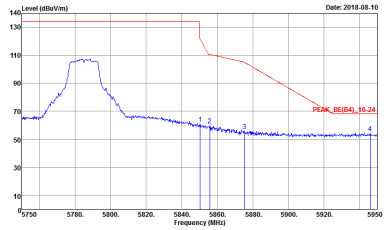
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ac VHT80 CH155 5775MHz	
1	Horizontal	Vertical
Peak Avg.		

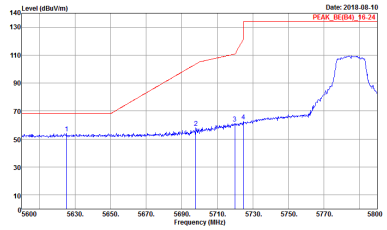
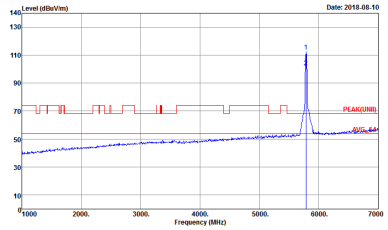
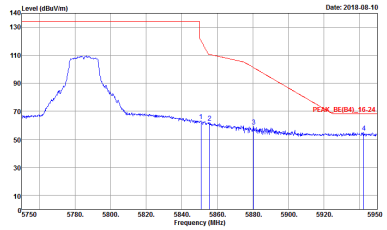
Band 4 - 5725~5850MHz

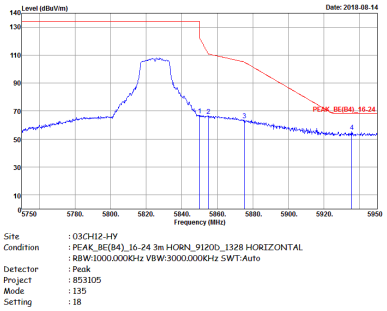
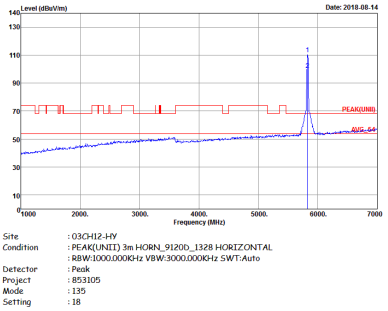
WIFI 802.11a (Band Edge @ 3m)

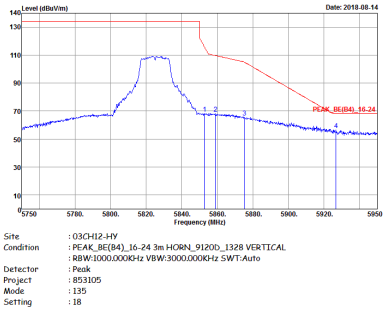
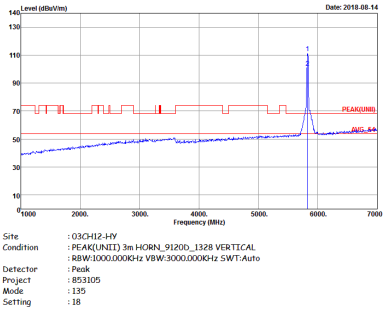
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH149 5745MHz	
2	Horizontal	Fundamental
Peak		

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 : 03CH12-HY Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1328 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 853105 Mode : 134 Setting : 18	 Site : 03CH12-HY Condition : PEAK(UNII) 3m HORN_9120D_1328 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 853105 Mode : 134 Setting : 18
Peak	 Site : 03CH12-HY Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1328 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 853105 Mode : 134 Setting : 18	Left blank

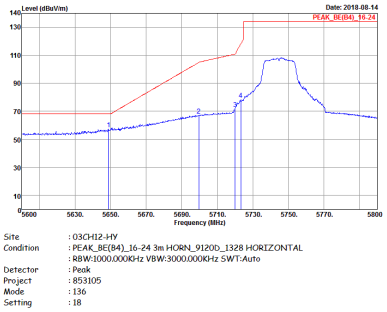
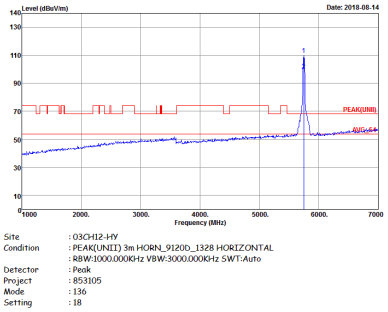
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH157 5785MHz	
2	Vertical	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1328 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 853105 Mode : 134 Setting : 18	 Site : 03CH12-HY Condition : PEAK(UNII) 3m HORN_9120D_1328 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 853105 Mode : 134 Setting : 18
Peak	 Site : 03CH12-HY Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1328 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 853105 Mode : 134 Setting : 18	Left blank

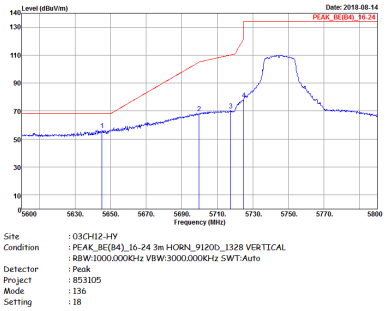
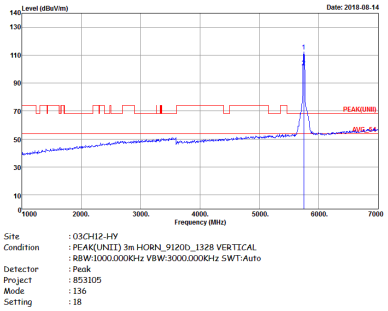
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH165 5825MHz	
2	Horizontal	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1328 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 853105 Mode : 135 Setting : 18	 Site : 03CH12-HY Condition : PEAK(UNII) 3m HORN_9120D_1328 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 853105 Mode : 135 Setting : 18

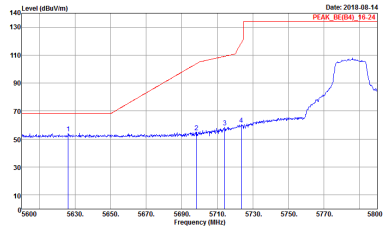
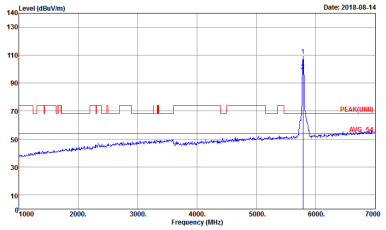
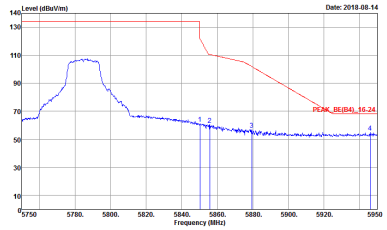
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH165 5825MHz	
2	Vertical	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1328 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 853105 Mode : 135 Setting : 18	 Site : 03CH12-HY Condition : PEAK(UNII) 3m HORN_9120D_1328 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 853105 Mode : 135 Setting : 18

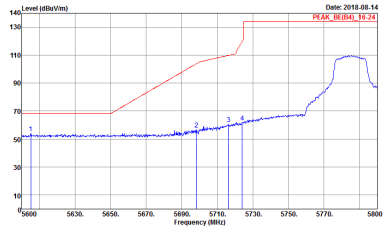
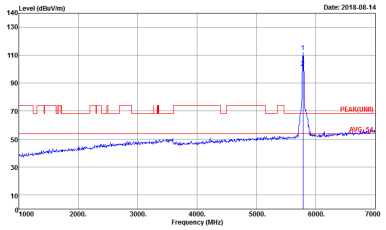
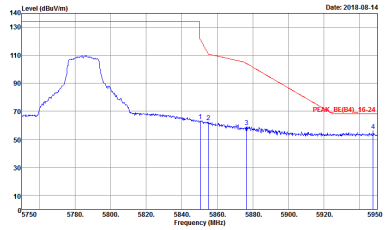
Band 4 5725~5850MHz

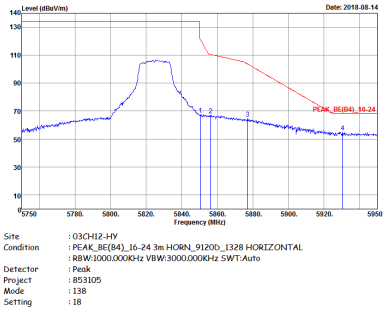
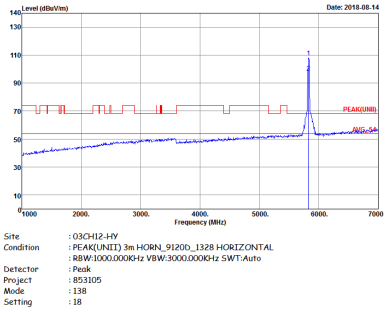
WIFI 802.11n HT20 (Band Edge @ 3m)

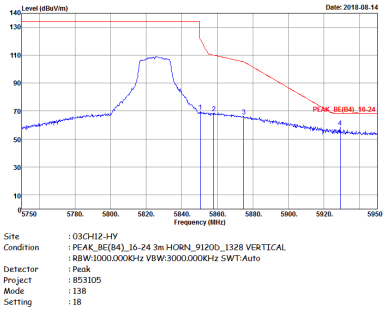
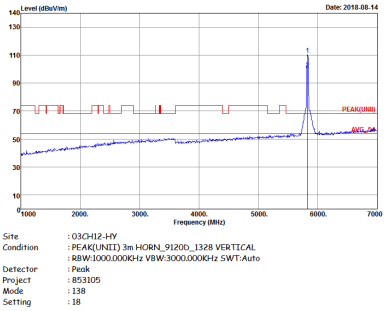
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH149 5745MHz	
2	Horizontal	Fundamental
Peak		

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH149 5745MHz	
2	Vertical	Fundamental
Peak		

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH157 5785MHz	
2	Horizontal	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1328 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 853105 Mode : 137 Setting : 18	 Site : 03CH12-HY Condition : PEAK(UNII) 3m HORN_9120D_1328 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 853105 Mode : 137 Setting : 18
Peak	 Site : 03CH12-HY Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1328 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 853105 Mode : 137 Setting : 18	Left blank

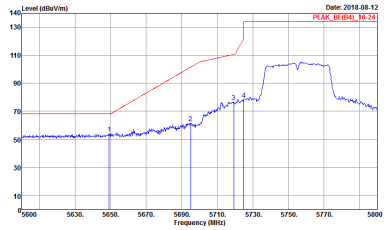
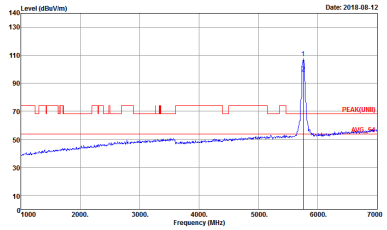
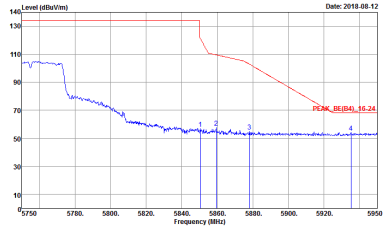
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH157 5785MHz	
2	Vertical	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1328 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 853105 Mode : 137 Setting : 18	 Site : 03CH12-HY Condition : PEAK(UNII) 3m HORN_9120D_1328 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 853105 Mode : 137 Setting : 18
Peak	 Site : 03CH12-HY Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1328 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 853105 Mode : 137 Setting : 18	Left blank

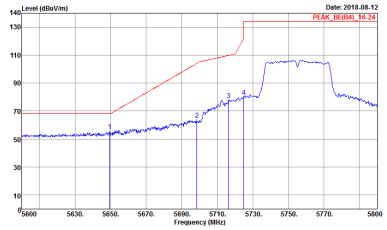
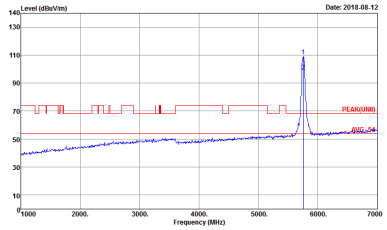
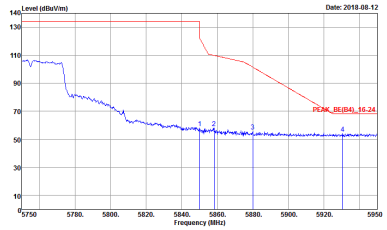
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH165 5825MHz	
2	Horizontal	Fundamental
Peak		

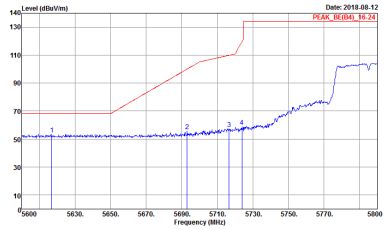
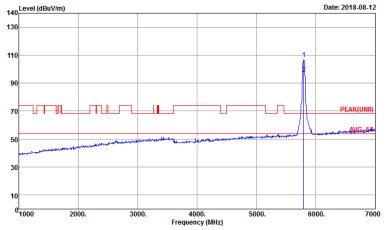
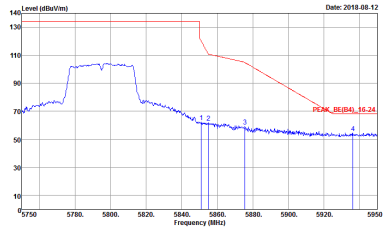
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH165 5825MHz	
2	Vertical	Fundamental
Peak		

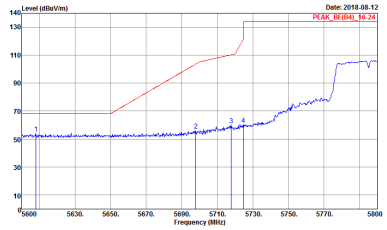
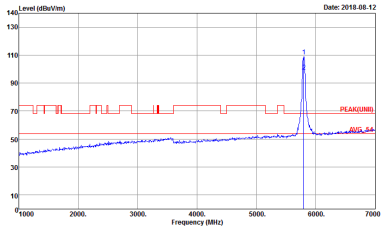
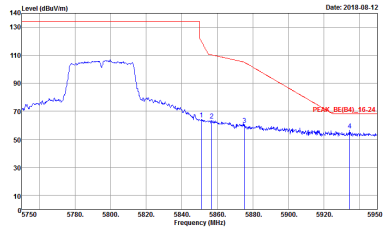
Band 4 5725~5850MHz

WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT40 CH151 5755MHz	
2	Horizontal	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1328 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 853105 Mode : 139 Setting : I7	 Site : 03CH12-HY Condition : PEAK(UNII) 3m HORN_9120D_1328 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 853105 Mode : 139 Setting : I7
Peak	 Site : 03CH12-HY Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1328 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 853105 Mode : 139 Setting : I7	Left blank

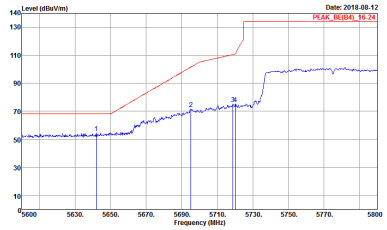
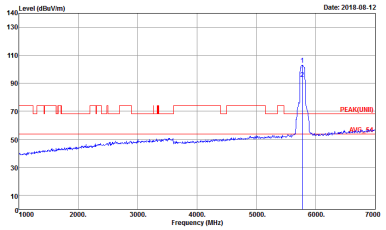
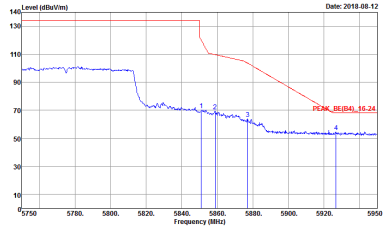
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT40 CH151 5755MHz	
2	Vertical	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1328 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 853105 Mode : 139 Setting : 17	 Site : 03CH12-HY Condition : PEAK(UNII) 3m HORN_9120D_1328 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 853105 Mode : 139 Setting : 17
Peak	 Site : 03CH12-HY Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1328 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 853105 Mode : 139 Setting : 17	Left blank

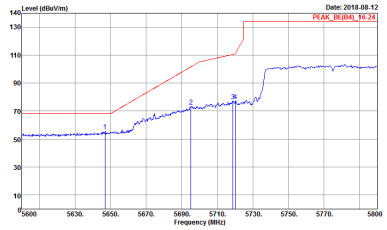
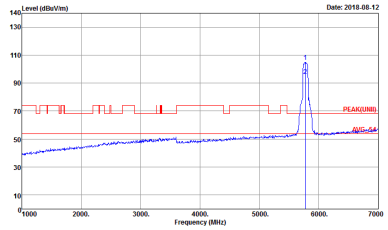
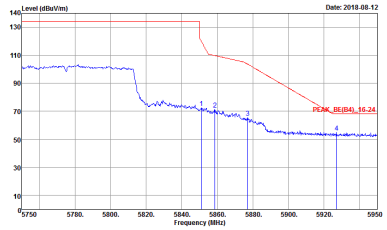
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT40 CH159 5795MHz	
2	Horizontal	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1328 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 853105 Mode : 140 Setting : 17	 Site : 03CH12-HY Condition : PEAK(UNII) 3m HORN_9120D_1328 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 853105 Mode : 140 Setting : 17
Peak	 Site : 03CH12-HY Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1328 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 853105 Mode : 140 Setting : 17	Left blank

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT40 CH159 5795MHz	
2	Vertical	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1328 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 853105 Mode : 140 Setting : 17	 Site : 03CH12-HY Condition : PEAK(UNII) 3m HORN_9120D_1328 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 853105 Mode : 140 Setting : 17
Peak	 Site : 03CH12-HY Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1328 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 853105 Mode : 140 Setting : 17	Left blank

Band 4 5725~5850MHz

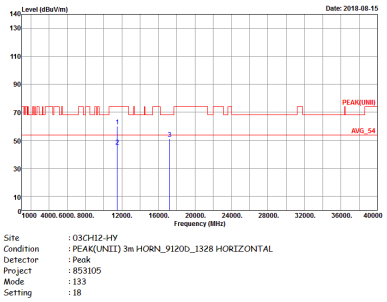
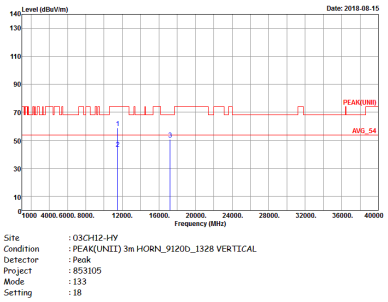
WIFI 802.11ac VHT80 (Band Edge @ 3m)

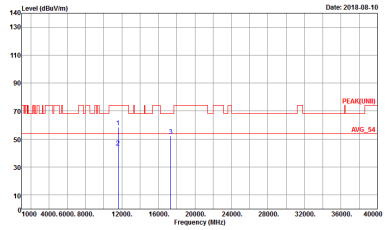
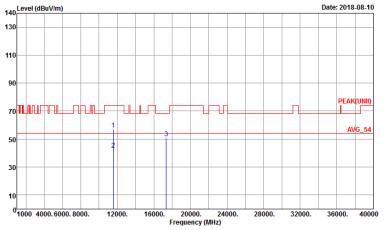
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH155 5775MHz	
2	Horizontal	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1328 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 853105 Mode : 141 Setting : 17	 Site : 03CH12-HY Condition : PEAK(UNII) 3m HORN_9120D_1328 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 853105 Mode : 141 Setting : 17
Peak	 Site : 03CH12-HY Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1328 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 853105 Mode : 141 Setting : 17	Left blank

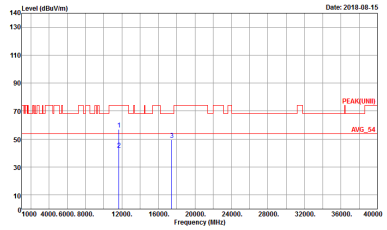
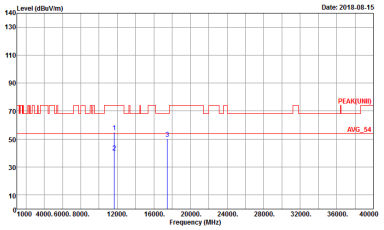
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH155 5775MHz	
2	Vertical	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1328 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 853105 Mode : 141 Setting : 17	 Site : 03CH12-HY Condition : PEAK(UNII) 3m HORN_9120D_1328 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 853105 Mode : 141 Setting : 17
Peak	 Site : 03CH12-HY Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_1328 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 853105 Mode : 141 Setting : 17	Left blank

Band 4 - 5725~5850MHz

WIFI 802.11a (Harmonic @ 3m)

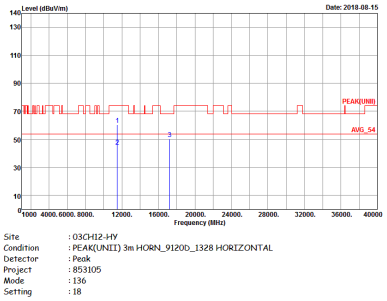
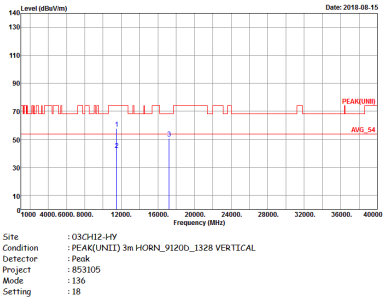
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH149 5745MHz	
2	Horizontal	Vertical
Peak Avg.		

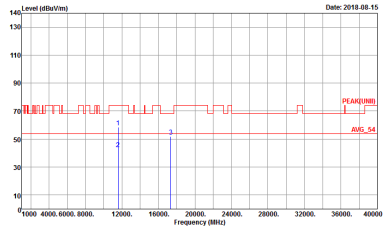
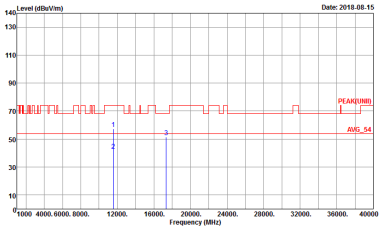
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH157 5785MHz	
2	Horizontal	Vertical
Peak Avg.	 Site : 03CH12-HY Condition : PEAK(UNII) 3m HORN_9120D_1328 HORIZONTAL Detector : Peak Project : 853105 Mode : 134 Setting : 18	 Site : 03CH12-HY Condition : PEAK(UNII) 3m HORN_9120D_1328 VERTICAL Detector : Peak Project : 853105 Mode : 134 Setting : 18

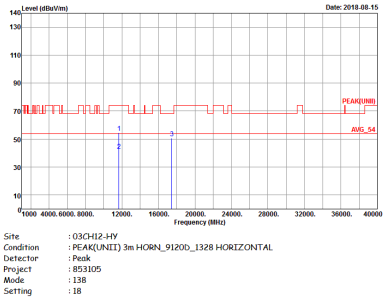
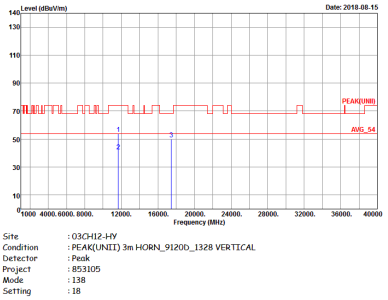
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH165 5825MHz	
2	Horizontal	Vertical
Peak Avg.	 Site : 03CH12-HY Condition : PEAK(UNII) 3m HORN_9120D_1328 HORIZONTAL Detector : Peak Project : 853105 Mode : 135 Setting : 18	 Site : 03CH12-HY Condition : PEAK(UNII) 3m HORN_9120D_1328 VERTICAL Detector : Peak Project : 853105 Mode : 135 Setting : 18

Band 4 5725~5850MHz

WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11n HT20 CH149 5745MHz	
2	Horizontal	Vertical
Peak Avg.		

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11n HT20 CH157 5785MHz	
2	Horizontal	Vertical
Peak Avg.	 Site : 03CH12-HY Condition : PEAK(UNII) 3m HORN_9120D_1328 HORIZONTAL Detector : Peak Project : 853105 Mode : 137 Setting : 18	 Site : 03CH12-HY Condition : PEAK(UNII) 3m HORN_9120D_1328 VERTICAL Detector : Peak Project : 853105 Mode : 137 Setting : 18

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11n HT20 CH165 5825MHz	
2	Horizontal	Vertical
Peak Avg.	 Site : 03CH12-HY Condition : PEAK(UNII) 3m HORN_9120D_1328 HORIZONTAL Detector : Peak Project : 853105 Mode : 138 Setting : 18	 Site : 03CH12-HY Condition : PEAK(UNII) 3m HORN_9120D_1328 VERTICAL Detector : Peak Project : 853105 Mode : 138 Setting : 18