FCC Test Report (5GHz WLAN)

Report No.:	RFBDKG-WTW-P21060168-1
FCC ID:	JNZVR0029
Test Model:	VR0029
Received Date:	June 21, 2021
Test Date:	June 24 to July 03, 2021
Issued Date:	Aug. 11, 2021
Applicant:	Logitech Far East Ltd
Address:	7700 Gateway Boulevard Newark California United States
Issued By:	Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch Hsin Chu Laboratory
Lab Address:	E-2, No.1, Li Hsin 1st Road, Hsinchu Science Park, Hsinchu City 300, Taiwan
Test Location:	E-2, No.1, Li Hsin 1st Road, Hsinchu Science Park, Hsinchu City 300, Taiwan
FCC Registration / Designation Number:	723255 / TW2022

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Release Control Record

Issue No.	Description	Date Issued
RFBDKG-WTW-P21060168-1	Original release.	Aug. 11, 2021

1 Certificate of Conformity

Product:	TAP IP
Brand:	Logitech
Test Model:	VR0029
Sample Status:	Engineering sample
Applicant:	Logitech Far East Ltd
Test Date:	June 24 to July 03, 2021
Standard:	47 CFR FCC Part 15, Subpart E (Section 15.407) ANSI C63.10: 2013

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

Prepared by : Cherry Chuo , **Date:** Aug. 11, 2021

Cherry Chuo / Specialist

Approved by : , **Date:** Aug. 11, 2021

Clark Lin / Technical Manager

2 Summary of Test Results

47 CFR FCC Part 15, Subpart E (Section 15.407)			
FCC Clause	Test Item	Result	Remarks
15.407(b)(8)	AC Power Conducted Emissions	Pass	Meet the requirement of limit. Minimum passing margin is -8.04dB at 14.83594 MHz.
15.407(b) (1/2/3/4(i/ii)/8)	Radiated Emissions & Band Edge Measurement*	Pass	Meet the requirement of limit. Minimum passing margin is -4.0 dB at 5150.00 MHz, 5468.00 MHz, and 5470.00 MHz.
15.407(a)(1/2/3)	Max Average Transmit Power	Pass	Meet the requirement of limit.
---	Occupied Bandwidth Measurement	-	Reference only.
15.407(a)(1/2/3)	Peak Power Spectral Density	Pass	Meet the requirement of limit.
15.407(e)	6dB bandwidth	Pass	Meet the requirement of limit. (U-NII-3 Band only)
15.407(g)	Frequency Stability	Pass	Meet the requirement of limit.
15.203	Antenna Requirement	Pass	No antenna connector is used.

Note:
1. For U-NII-3 band compliance with rule part 15.407(b)(4)(i), the OOBE test plots were recorded in Annex A.
2. For U-NII-1, U-NII-2A, U-NII-2C band compliance with rule 15.407(b) of the band-edge items, the test plots were recorded in Annex B. Test Procedures refer to report 4.1.3.
3. Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

2.1 Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

Measurement	Frequency	Expanded Uncertainty (k=2) (±)
Conducted Emissions at mains ports	150kHz ~ 30MHz	1.9 dB
Radiated Emissions up to 1 GHz	9kHz ~ 30MHz	3.1 dB
	30MHz ~ 1GHz	5.4 dB
Radiated Emissions above 1 GHz	1GHz ~ 18GHz	5.0 dB
	18GHz ~ 40GHz	5.3 dB

2.2 Modification Record

There were no modifications required for compliance.

3 General Information

3.1 General Description of EUT (5GHz WLAN)

Product	TAP IP
Brand	Logitech
Test Model	VR0029
Status of EUT	Engineering sample
Power Supply Rating	52 Vdc from POE
Modulation Type	64QAM, 16QAM, QPSK, BPSK for OFDM 256QAM for OFDM in 11ac mode
Modulation Technology	OFDM
Transfer Rate	802.11a: up to 54 Mbps 802.11n: up to 150 Mbps 802.11ac: up to 433.3 Mbps
Operating Frequency	5.18 ~ 5.24 GHz, 5.26 ~ 5.32 GHz, 5.50 ~ 5.72 GHz, 5.745 ~ 5.825 GHz
Number of Channel	802.11a, 802.11n (HT20), 802.11ac (VHT20): 25 802.11n (HT40), 802.11ac (VHT40): 12 802.11ac (VHT80): 6
Output Power	**5.18 ~ 5.24 GHz:** 86.298 mW **5.26 ~ 5.32 GHz:** 90.365 mW **5.50 ~ 5.72 GHz:** 94.406 mW **5.745 ~ 5.825 GHz:** 95.719 mW
Antenna Type	Refer to Note
Antenna Connector	Refer to Note
Accessory Device	NA
Cable Supplied	NA

Note:

1. There are WLAN and Bluetooth technology used for the EUT.
2. Simultaneously transmission condition.

Condition	Technology	
1	WLAN (2.4GHz)	WLAN (5GHz)
2	WLAN (2.4GHz)	Bluetooth
3	WLAN (5GHz)	Bluetooth
Note: The emission of the simultaneous operation has been evaluated and no non-compliance was found.		

3. The antenna provided to the EUT, please refer to the following table:

Brand	Model	Antenna Net Gain (dBi)	Frequency Range (GHz)	Antenna Type	Connector Type
FIH	S0A602600A0	2.73	2.4~2.4835	Monopole	none
		2.97	5.15~5.25		
		2.35	5.25~5.35		
		3	5.47~5.725		
		2.64	5.725~5.85		

4. The EUT incorporates a SISO function:

5GHz Band		
MODULATION MODE	**TX & RX CONFIGURATION**	
802.11a	1TX	1RX
802.11n (HT20)	1TX	1RX
802.11n (HT40)	1TX	1RX
802.11ac (VHT20)	1TX	1RX
802.11ac (VHT40)	1TX	1RX
802.11ac (VHT80)	1TX	1RX

5. The above EUT information is declared by manufacturer and for more detailed features description, please refers to the manufacturer's specifications or user's manual.
6. The above Antenna information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications, the laboratory shall not be held responsible.

3.2 Description of Test Modes

FOR 5180 ~ 5240MHz

4 channels are provided for 802.11a, 802.11n (HT20), 802.11ac (VHT20):

Channel	Frequency	Channel	Frequency
36	5180 MHz	44	5220 MHz
40	5200 MHz	48	5240 MHz

2 channels are provided for 802.11n (HT40), 802.11ac (VHT40):

Channel	Frequency	Channel	Frequency
38	5190 MHz	46	5230 MHz

1 channel is provided for 802.11ac (VHT80):

Channel	Frequency
42	5210 MHz

FOR 5260 ~ 5320MHz

4 channels are provided for 802.11a, 802.11n (HT20), 802.11ac (VHT20):

Channel	Frequency	Channel	Frequency
52	5260 MHz	60	5300 MHz
56	5280 MHz	64	5320 MHz

2 channels are provided for 802.11n (HT40), 802.11ac (VHT40):

Channel	Frequency	Channel	Frequency
54	5270 MHz	62	5310 MHz

1 channel is provided for 802.11ac (VHT80):

Channel	Frequency
58	5290 MHz

FOR 5500 ~ 5720MHz

12 channels are provided for 802.11a, 802.11n (HT20), 802.11ac (VHT20):

Channel	Frequency	Channel	Frequency
100	5500 MHz	124	5620 MHz
104	5520 MHz	128	5640 MHz
108	5540 MHz	132	5660 MHz
112	5560 MHz	136	5680 MHz
116	5580 MHz	140	5700 MHz
120	5600 MHz	144	5720 MHz

6 channels are provided for 802.11n (HT40), 802.11ac (VHT40):

Channel	Frequency	Channel	Frequency
102	5510 MHz	126	5630 MHz
110	5550 MHz	134	5670 MHz
118	5590 MHz	142	5710 MHz

3 channels are provided for 802.11ac (VHT80):

Channel	Frequency	Channel	Frequency
106	5530 MHz	138	5690 MHz
122	5610 MHz		

FOR 5745 ~ 5825MHz:

5 channels are provided for 802.11a, 802.11n (HT20), 802.11ac (VHT20):

Channel	Frequency	Channel	Frequency
149	5745 MHz	161	5805 MHz
153	5765 MHz	165	5825 MHz
157	5785 MHz		

2 channels are provided for 802.11n (HT40), 802.11ac (VHT40):

Channel	Frequency	Channel	Frequency
151	5755 MHz	159	5795 MHz

1 channel is provided for 802.11ac (VHT80):

Channel	Frequency
155	5775 MHz

3.2.1 Test Mode Applicability and Tested Channel Detail

EUT Configure Mode	Applicable To				Description
	RE≥1G	RE<1G	PLC	APCM	
-	√	√	√	√	-

Where **RE≥1G:** Radiated Emission above 1GHz **RE<1G:** Radiated Emission below 1GHz
PLC: Power Line Conducted Emission **APCM:** Antenna Port Conducted Measurement

Radiated Emission Test (Above 1GHz):

☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
☒ Following channel(s) was (were) selected for the final test as listed below.

Mode	Freq. Band (MHz)	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate (Mbps)
802.11a	5180-5240	36 to 48	36, 40, 48	OFDM	BPSK	6
802.11ac (VHT20)		36 to 48	36, 40, 48	OFDM	BPSK	6.5
802.11ac (VHT40)		38 to 46	38, 46	OFDM	BPSK	13.5
802.11ac (VHT80)		42	42	OFDM	BPSK	29.3
802.11a	5260-5320	52 to 64	52, 60, 64	OFDM	BPSK	6
802.11ac (VHT20)		52 to 64	52, 60, 64	OFDM	BPSK	6.5
802.11ac (VHT40)		54 to 62	54, 62	OFDM	BPSK	13.5
802.11ac (VHT80)		58	58	OFDM	BPSK	29.3
802.11a	5500-5720	100 to 144	100, 116, 140, 144	OFDM	BPSK	6
802.11ac (VHT20)		100 to 144	100, 116, 140, 144	OFDM	BPSK	6.5
802.11ac (VHT40)		102 to 142	102, 110, 134, 142	OFDM	BPSK	13.5
802.11ac (VHT80)		106 to 138	106, 122, 138	OFDM	BPSK	29.3
802.11a	5745-5825	149 to 165	149, 157, 165	OFDM	BPSK	6
802.11ac (VHT20)		149 to 165	149, 157, 165	OFDM	BPSK	6.5
802.11ac (VHT40)		151 to 159	151, 159	OFDM	BPSK	13.5
802.11ac (VHT80)		155	155	OFDM	BPSK	29.3

Radiated Emission Test (Below 1GHz):

☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
☒ Following channel(s) was (were) selected for the final test as listed below.

Mode	Freq. Band (MHz)	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate (Mbps)
802.11a	5180-5320, 5500-5700, 5745-5825	36 to 64, 100 to 140, 149 to 165	116	OFDM	BPSK	6

Power Line Conducted Emission Test:

☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
☒ Following channel(s) was (were) selected for the final test as listed below.

Mode	Freq. Band (MHz)	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate (Mbps)
802.11a	5180-5320, 5500-5700, 5745-5825	36 to 64, 100 to 140, 149 to 165	116	OFDM	BPSK	6

Antenna Port Conducted Measurement:

☒ This item includes all test value of each mode, but only includes spectrum plot of worst value of each mode.
☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
☒ Following channel(s) was (were) selected for the final test as listed below.

Mode	Freq. Band (MHz)	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate (Mbps)
802.11a	5180-5240	36 to 48	36, 40, 48	OFDM	BPSK	6
802.11ac (VHT20)		36 to 48	36, 40, 48	OFDM	BPSK	6.5
802.11ac (VHT40)		38 to 46	38, 46	OFDM	BPSK	13.5
802.11ac (VHT80)		42	42	OFDM	BPSK	29.3
802.11a	5260-5320	52 to 64	52, 60, 64	OFDM	BPSK	6
802.11ac (VHT20)		52 to 64	52, 60, 64	OFDM	BPSK	6.5
802.11ac (VHT40)		54 to 62	54, 62	OFDM	BPSK	13.5
802.11ac (VHT80)		58	58	OFDM	BPSK	29.3
802.11a	5500-5720	100 to 144	100, 116, 140, 144	OFDM	BPSK	6
802.11ac (VHT20)		100 to 144	100, 116, 140, 144	OFDM	BPSK	6.5
802.11ac (VHT40)		102 to 142	102, 110, 134, 142	OFDM	BPSK	13.5
802.11ac (VHT80)		106 to 138	106, 122, 138	OFDM	BPSK	29.3
802.11a	5745-5825	149 to 165	149, 157, 165	OFDM	BPSK	6
802.11ac (VHT20)		149 to 165	149, 157, 165	OFDM	BPSK	6.5
802.11ac (VHT40)		151 to 159	151, 159	OFDM	BPSK	13.5
802.11ac (VHT80)		155	155	OFDM	BPSK	29.3

Test Condition:

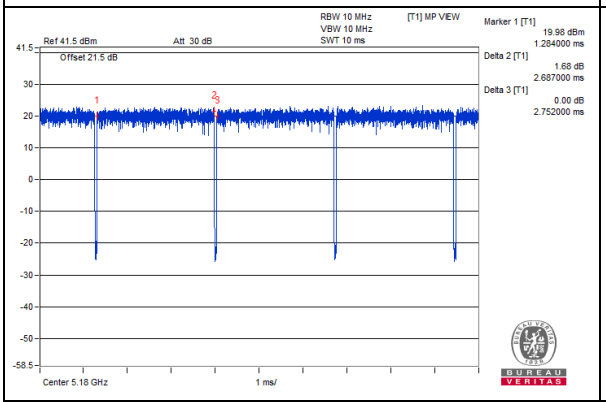
APPLICABLE TO	ENVIRONMENTAL CONDITIONS	INPUT POWER (System)	TESTED BY
RE≥1G	25deg. C, 65%RH	120Vac, 60Hz	Ryan Du
RE<1G	25deg. C, 70%RH	120Vac, 60Hz	Ryan Du
PLC	25deg. C, 75%RH	120Vac, 60Hz	Ryan Du
APCM	25deg. C, 60%RH	120Vac, 60Hz	Kevin Ko

3.3 Duty Cycle of Test Signal

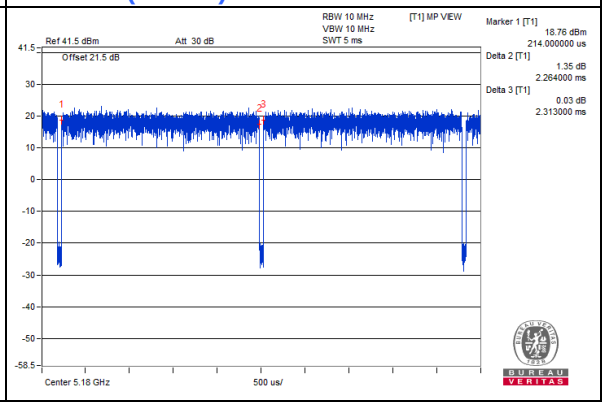
Duty cycle of test signal is < 98 %, duty factor shall be considered.

802.11a: Duty cycle = 2.687 ms/2.752 ms = 0.976, Duty factor = 10 * log (1/Duty cycle) = 0.10 dB
802.11ac (VHT20): Duty cycle = 2.264 ms/2.313 ms = 0.979, Duty factor = 10 * log (1/Duty cycle) = 0.09 dB
802.11ac (VHT40): Duty cycle =2.177 ms/2.225 ms = 0.978, Duty factor = 10 * log (1/Duty cycle) = 0.09 dB
802.11ac (VHT80): Duty cycle = 1.024 ms/1.072 ms = 0.955, Duty factor = 10 * log (1/Duty cycle) = 0.20 dB

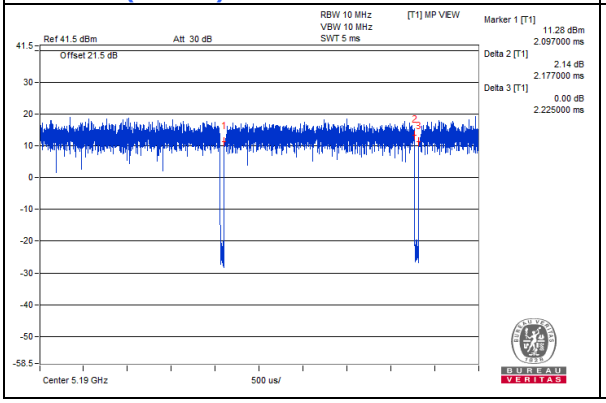
802.11a



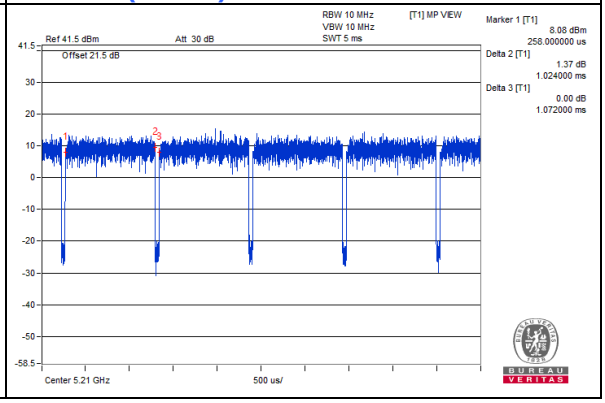
802.11ac (VHT20)



802.11ac (VHT40)



802.11ac (VHT80)



3.4 Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A.	PoE	Bullet	BPI100-H	NA	NA	Supplied by client
B.	Laptop	Lenovo	20U5S01X00 L14	PF-1ANPYA	NA	Provided by Lab

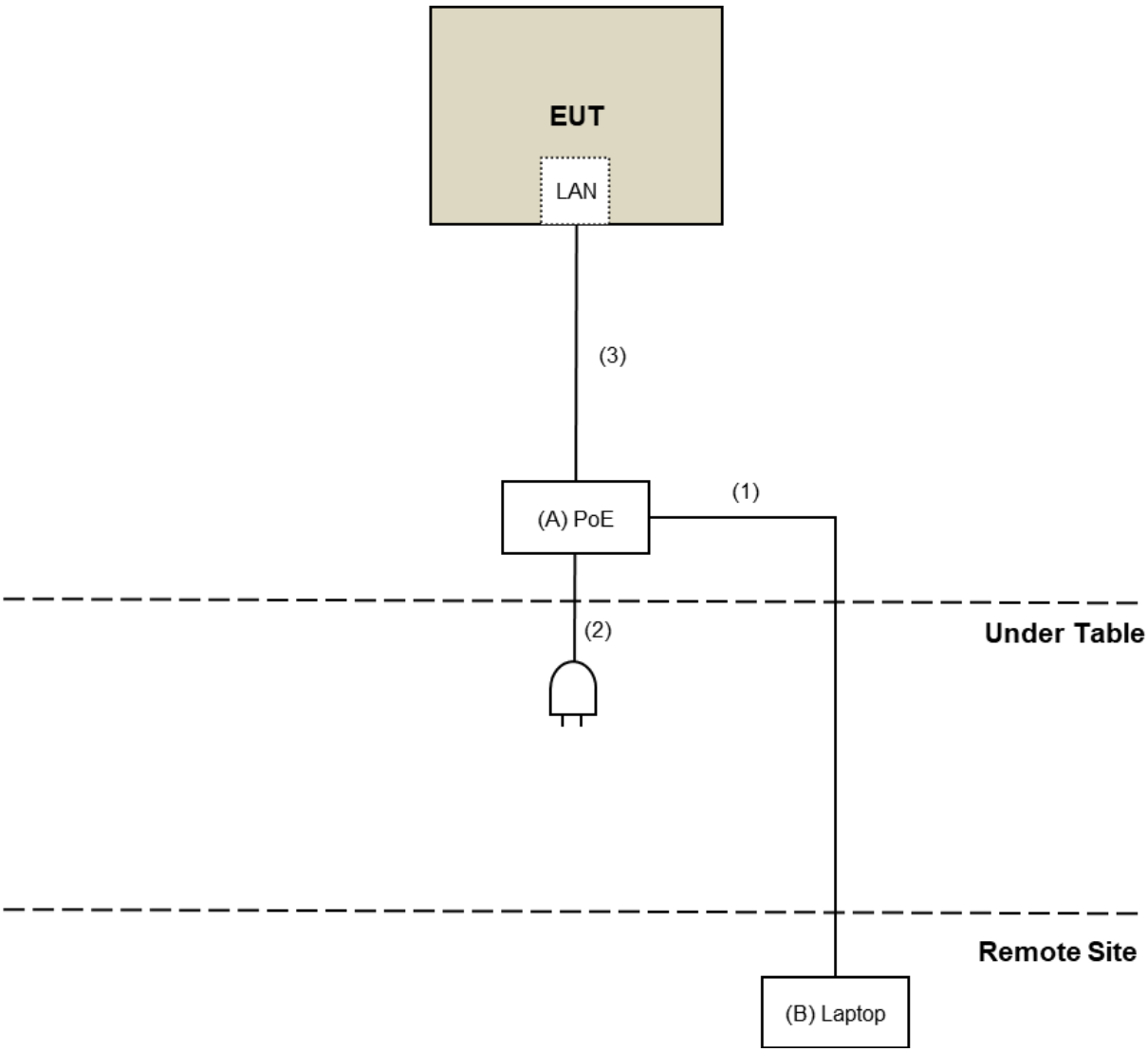
Note:

1. All power cords of the above support units are non-shielded (1.8m).

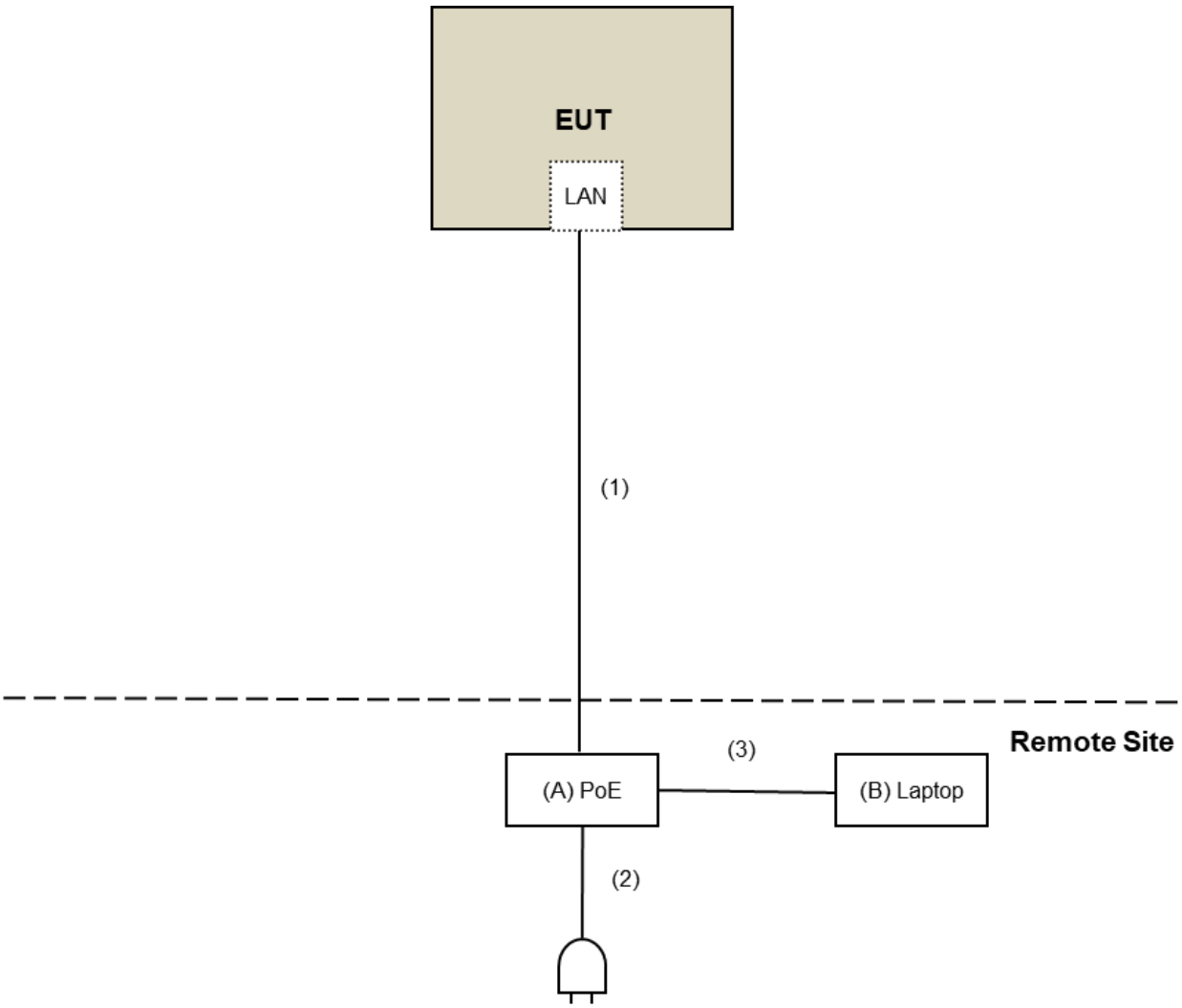
ID	Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1.	RJ-45 Cable	1	10	No	0	Provided by Lab
2.	AC Cable	1	1.8	No	0	Provided by Lab
3.	RJ-45 Cable	1	1.5	No	0	Supplied by client

3.4.1 Configuration of System under Test

For AC Power Conducted Emissions test:



For Radiated Emissions test:



3.5 General Description of Applied Standard and References

The EUT is a RF Product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards and references:

Test Standard:
FCC Part 15, Subpart E (15.407)
ANSI C63.10-2013

All test items have been performed and recorded as per the above standards.

References Test Guidance:
KDB 789033 D02 General UNII Test Procedure New Rules v02r01

All test items have been performed as a reference to the above KDB test guidance.

4 Test Types and Results

4.1 Radiated Emission and Bandedge Measurement

4.1.1 Limits of Radiated Emission and Bandedge Measurement

Radiated emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table.

Frequencies (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:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
3. For frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.

Limits of unwanted emission out of the restricted bands

Applicable To		Limit	
789033 D02 General UNII Test Procedure New Rules v02r01		Field Strength at 3m	
		PK:74 (dBµV/m)	AV:54 (dBµV/m)
Frequency Band	Applicable To	EIRP Limit	Equivalent Field Strength at 3m
5150~5250 MHz	15.407(b)(1)	PK:-27 (dBm/MHz)	PK:68.2(dBµV/m)
5250~5350 MHz	15.407(b)(2)		
5470~5725 MHz	15.407(b)(3)		
5725~5850 MHz	15.407(b)(4)(i)	PK: -27 (dBm/MHz) *1 PK: 10 (dBm/MHz) *2 PK: 15.6 (dBm/MHz) *3 PK: 27 (dBm/MHz) *4	PK: 68.2(dBµV/m) *1 PK: 105.2 (dBµV/m) *2 PK: 110.8(dBµV/m) *3 PK: 122.2 (dBµV/m) *4
5725~5850 MHz	15.407(b)(4)(i)	PK:-27 (dBm/MHz) *1 PK:10 (dBm/MHz) *2 PK:15.6 (dBm/MHz) *3 PK:27 (dBm/MHz) *4	PK: 68.2(dBµV/m) *1 PK:105.2 (dBµV/m) *2 PK: 110.8(dBµV/m) *3 PK:122.2 (dBµV/m) *4

*1 beyond 75 MHz or more above of the band edge.

*2 below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above.

*3 below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above.

*4 from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

Note:

The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength:

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

4.1.2 Test Instruments

For Radiated emission test:

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
Test Receiver Keysight	N9038A	MY54450088	July 06, 2020	July 05, 2021
Pre-Amplifier EMCI	EMC001340	980142	May 24, 2021	May 23, 2022
Loop Antenna Electro-Metrics	EM-6879	264	Mar. 05, 2021	Mar. 04, 2022
RF Cable	5D-FB	LOOPCAB-001	Jan. 07, 2021	Jan. 06, 2022
RF Cable	5D-FB	LOOPCAB-002	Jan. 07, 2021	Jan. 06, 2022
Pre-Amplifier Mini-Circuits	ZFL-1000VH2	QA0838008	Oct. 20, 2020	Oct. 19, 2021
Trilog Broadband Antenna SCHWARZBECK	VULB 9168	9168-361	Nov. 05, 2020	Nov. 04, 2021
RF Cable	8D	966-3-1	Mar. 16, 2021	Mar. 15, 2022
RF Cable	8D	966-3-2	Mar. 16, 2021	Mar. 15, 2022
RF Cable	8D	966-3-3	Mar. 16, 2021	Mar. 15, 2022
Fixed attenuator Mini-Circuits	UNAT-5+	PAD-3m-3-01	Sep. 24, 2020	Sep. 23, 2021
Horn_Antenna SCHWARZBECK	BBHA9120-D	9120D-406	Nov. 22, 2020	Nov. 21, 2021
Pre-Amplifier EMCI	EMC12630SE	980384	Jan. 11, 2021	Jan. 10, 2022
RF Cable	EMC104-SM-SM-1500	180504	Apr. 26, 2021	Apr. 25, 2022
RF Cable	EMC104-SM-SM-2000	180601	June 08, 2021	June 07, 2022
RF Cable	EMC104-SM-SM-6000	210201	May 13, 2021	May 12, 2022
Spectrum Analyzer Keysight	N9030A	MY54490679	July 13, 2020	July 12, 2021
Pre-Amplifier EMCI	EMC184045SE	980387	Jan. 11, 2021	Jan. 10, 2022
Horn_Antenna SCHWARZBECK	BBHA 9170	BBHA9170519	Nov. 22, 2020	Nov. 21, 2021
RF Cable	EMC102-KM-KM-1200	160924	Jan. 11, 2021	Jan. 10, 2022
RF Cable	EMC-KM-KM-4000	200214	Mar. 10, 2021	Mar. 09, 2022
Software	ADT_Radiated_V8.7.08	NA	NA	NA
Antenna Tower & Turn Table Max-Full	MF-7802	MF780208406	NA	NA
Boresight Antenna Fixture	FBA-01	FBA-SIP01	NA	NA

Note:

1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. The test was performed in 966 Chamber No. 3.
3. Tested Date: July 03, 2021

For other test items:

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
Spectrum Analyzer R&S	FSV40	101516	Mar. 08, 2021	Mar. 07, 2022
Power meter Anritsu	ML2495A	1529002	June 21, 2021	June 20, 2022
Power sensor Anritsu	MA2411B	1339443	May 31, 2021	May 30, 2022
10dB Attenuator Woken	MDCS18N-10	MDCS18N-10-01	Apr. 13, 2021	Apr. 12, 2022
DC Power Supply Topward	6603D	795558	NA	NA
Temperature & Humidity Chamber Giant Force	GTH-150-40-SP-AR	MAA0812-008	Jan. 14, 2021	Jan. 13, 2022
True RMS Clamp Meter FLUKE	325	31130711WS	June 02, 2021	June 01, 2022
Software	ADT_RF Test Software V6.6.5.4	NA	NA	NA

NOTE: 1. The test was performed in Oven room 2.
2. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
3. Tested Date: June 24, 2021

4.1.3 Test Procedure

For Radiated emission below 30MHz

a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.

b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

c. Parallel, perpendicular, and ground-parallel orientations of the antenna are set to make the measurement.

d. For each suspected emission, the EUT was arranged to its worst case and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

e. The test-receiver system was set to Quasi-Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

Note:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 9kHz at frequency below 30MHz.

For Radiated emission above 30MHz

a. The EUT was placed on the top of a rotating table 0.8 meters (for 30MHz ~ 1GHz) / 1.5 meters (for above 1GHz) above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.

b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

c. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

e. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.

f. The test-receiver system was set to peak and average detects function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the average detector is unnecessary.

Note:

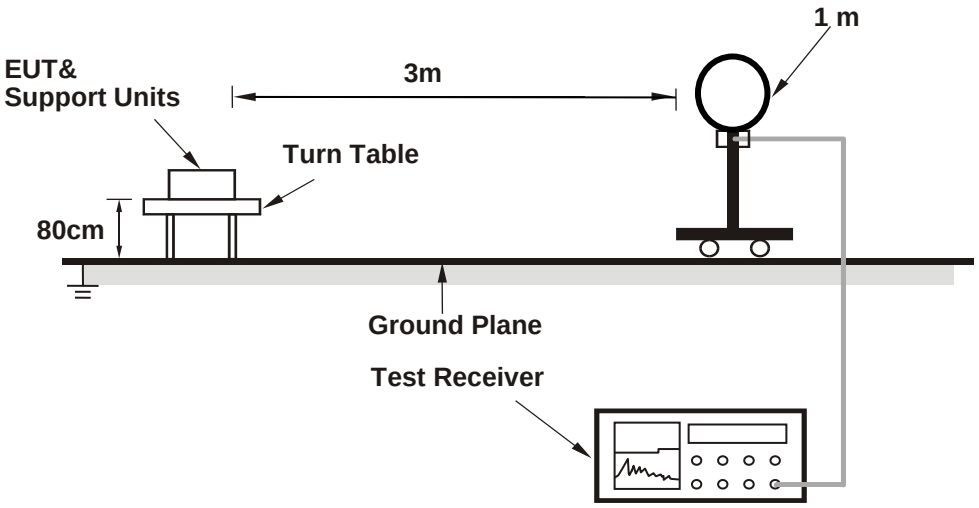
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is ≥ 1/T (Duty cycle < 98%) or 10Hz (Duty cycle ≥ 98%) for Average detection (AV) at frequency above 1GHz.
4. All modes of operation were investigated and the worst-case emissions are reported.

4.1.4 Deviation from Test Standard

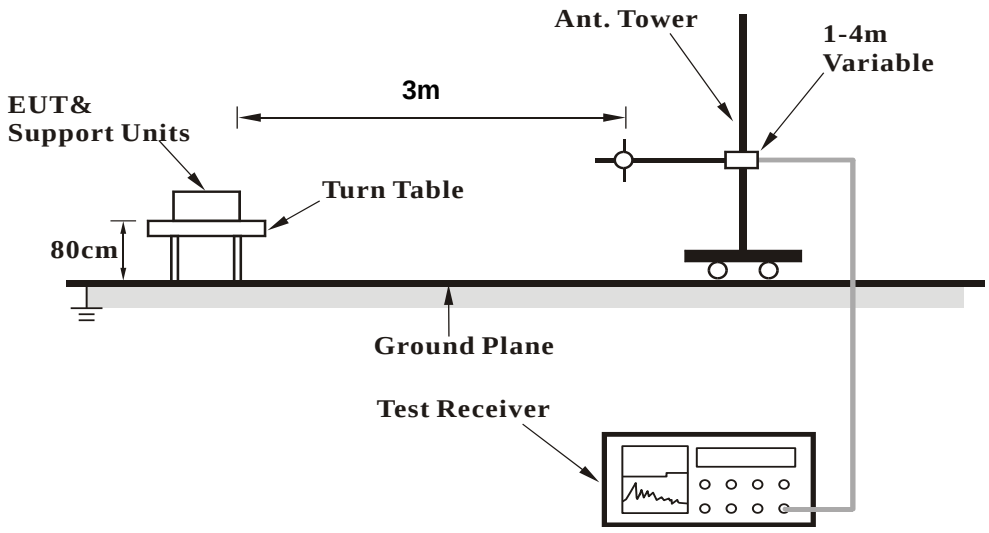
No deviation.

4.1.5 Test Setup

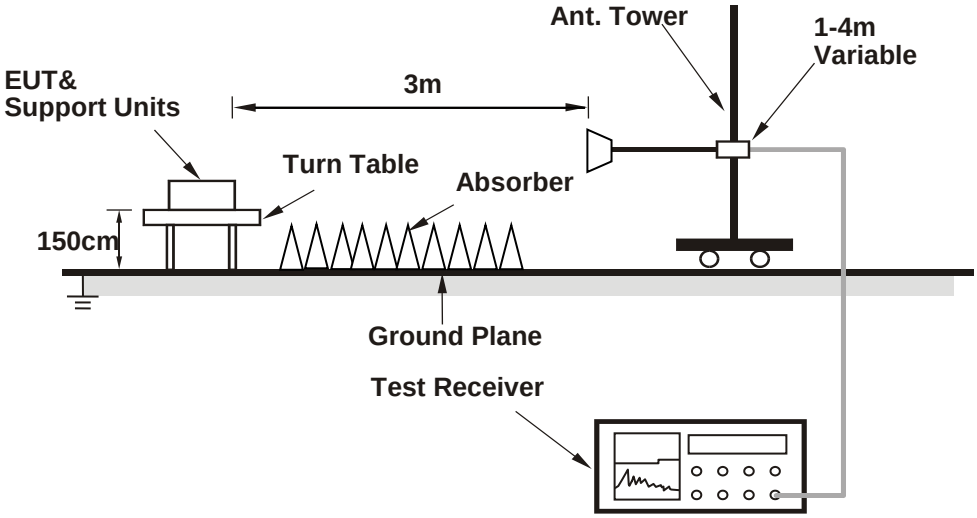
For Radiated emission below 30MHz



For Radiated emission 30MHz to 1GHz



For Radiated emission above 1GHz



For the actual test configuration, please refer to the attached file (Test Setup Photo).

4.1.6 EUT Operating Condition

a. Placed the EUT on the testing table.
b. Controlling software (SP META) has been activated to set the EUT under transmission condition continuously at specific channel frequency.

4.1.7 Test Results

Above 1GHz Data:

RF Mode	TX 802.11a	Channel	CH 36：5180 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	56.3 PK	74.0	-17.7	2.63 H	17	51.6	4.7
2	5150.00	45.4 AV	54.0	-8.6	2.63 H	17	40.7	4.7
3	*5180.00	106.9 PK			2.63 H	17	102.3	4.6
4	*5180.00	97.0 AV			2.63 H	17	92.4	4.6
5	#10360.00	47.4 PK	68.2	-20.8	2.19 H	266	34.0	13.4
6	15540.00	53.2 PK	74.0	-20.8	1.36 H	320	38.7	14.5
7	15540.00	39.6 AV	54.0	-14.4	1.36 H	320	25.1	14.5
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	64.1 PK	74.0	-9.9	1.21 V	62	59.4	4.7
2	**5150.00**	**50.0 AV**	**54.0**	**-4.0**	**1.21 V**	**62**	**45.3**	**4.7**
3	*5180.00	107.8 PK			1.21 V	62	103.2	4.6
4	*5180.00	97.7 AV			1.21 V	62	93.1	4.6
5	#10360.00	48.3 PK	68.2	-19.9	1.61 V	186	34.9	13.4
6	15540.00	51.9 PK	74.0	-22.1	1.90 V	261	37.4	14.5
7	15540.00	39.1 AV	54.0	-14.9	1.90 V	261	24.6	14.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11a	Channel	CH 40：5200 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5200.00	108.1 PK			2.63 H	11	103.7	4.4
2	*5200.00	97.9 AV			2.63 H	11	93.5	4.4
3	#10400.00	47.2 PK	68.2	-21.0	2.11 H	269	33.6	13.6
4	15600.00	52.3 PK	74.0	-21.7	1.41 H	316	37.8	14.5
5	15600.00	39.2 AV	54.0	-14.8	1.41 H	316	24.7	14.5
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5200.00	108.4 PK			1.20 V	56	104.0	4.4
2	*5200.00	98.2 AV			1.20 V	56	93.8	4.4
3	#10400.00	47.7 PK	68.2	-20.5	1.59 V	173	34.1	13.6
4	15600.00	51.0 PK	74.0	-23.0	1.91 V	249	36.5	14.5
5	15600.00	38.3 AV	54.0	-15.7	1.91 V	249	23.8	14.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11a	Channel	CH 48：5240 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5240.00	107.7 PK			2.59 H	31	103.3	4.4
2	*5240.00	97.5 AV			2.59 H	31	93.1	4.4
3	5350.00	56.5 PK	74.0	-17.5	2.59 H	31	52.2	4.3
4	5350.00	45.4 AV	54.0	-8.6	2.59 H	31	41.1	4.3
5	#10480.00	47.0 PK	68.2	-21.2	2.18 H	262	33.3	13.7
6	15720.00	52.4 PK	74.0	-21.6	1.36 H	295	38.0	14.4
7	15720.00	38.8 AV	54.0	-15.2	1.36 H	295	24.4	14.4
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5240.00	107.7 PK			1.05 V	61	103.3	4.4
2	*5240.00	97.7 AV			1.05 V	61	93.3	4.4
3	5350.00	50.3 PK	74.0	-23.7	1.05 V	61	46.0	4.3
4	5350.00	38.6 AV	54.0	-15.4	1.05 V	61	34.3	4.3
5	#10480.00	48.4 PK	68.2	-19.8	1.52 V	178	34.7	13.7
6	15720.00	51.5 PK	74.0	-22.5	1.90 V	253	37.1	14.4
7	15720.00	38.5 AV	54.0	-15.5	1.90 V	253	24.1	14.4

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11a	Channel	CH 52：5260 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	50.3 PK	74.0	-23.7	2.62 H	31	45.6	4.7
2	5150.00	40.2 AV	54.0	-13.8	2.62 H	31	35.5	4.7
3	*5260.00	108.1 PK			2.62 H	31	103.8	4.3
4	*5260.00	97.9 AV			2.62 H	31	93.6	4.3
5	#10520.00	47.9 PK	68.2	-20.3	2.21 H	252	34.1	13.8
6	15780.00	51.9 PK	74.0	-22.1	1.32 H	316	37.6	14.3
7	15780.00	38.6 AV	54.0	-15.4	1.32 H	316	24.3	14.3
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	51.8 PK	74.0	-22.2	1.07 V	79	47.1	4.7
2	5150.00	40.2 AV	54.0	-13.8	1.07 V	79	35.5	4.7
3	*5260.00	107.8 PK			1.07 V	79	103.5	4.3
4	*5260.00	98.2 AV			1.07 V	79	93.9	4.3
5	#10520.00	48.2 PK	68.2	-20.0	1.60 V	158	34.4	13.8
6	15780.00	51.1 PK	74.0	-22.9	2.00 V	239	36.8	14.3
7	15780.00	38.2 AV	54.0	-15.8	2.00 V	239	23.9	14.3

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11a	Channel	CH 60：5300 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5300.00	107.8 PK			2.65 H	8	103.5	4.3
2	*5300.00	97.4 AV			2.65 H	8	93.1	4.3
3	10600.00	48.0 PK	74.0	-26.0	2.16 H	272	34.4	13.6
4	10600.00	36.8 AV	54.0	-17.2	2.16 H	272	23.2	13.6
5	15900.00	52.9 PK	74.0	-21.1	1.32 H	310	38.8	14.1
6	15900.00	39.5 AV	54.0	-14.5	1.32 H	310	25.4	14.1
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5300.00	108.3 PK			1.24 V	60	104.0	4.3
2	*5300.00	98.3 AV			1.24 V	60	94.0	4.3
3	10600.00	48.4 PK	74.0	-25.6	1.61 V	169	34.8	13.6
4	10600.00	36.7 AV	54.0	-17.3	1.61 V	169	23.1	13.6
5	15900.00	50.9 PK	74.0	-23.1	1.91 V	243	36.8	14.1
6	15900.00	38.3 AV	54.0	-15.7	1.91 V	243	24.2	14.1

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.

RF Mode	TX 802.11a	Channel	CH 64：5320 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5320.00	109.9 PK			2.72 H	11	105.6	4.3
2	*5320.00	100.6 AV			2.72 H	11	96.3	4.3
3	5350.00	66.9 PK	74.0	-7.1	2.72 H	11	62.6	4.3
4	5350.00	47.9 AV	54.0	-6.1	2.72 H	11	43.6	4.3
5	10640.00	47.6 PK	74.0	-26.4	2.15 H	263	33.9	13.7
6	10640.00	36.4 AV	54.0	-17.6	2.15 H	263	22.7	13.7
7	15960.00	52.5 PK	74.0	-21.5	1.37 H	307	38.4	14.1
8	15960.00	39.1 AV	54.0	-14.9	1.37 H	307	25.0	14.1
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5320.00	107.7 PK			1.04 V	76	103.4	4.3
2	*5320.00	97.6 AV			1.04 V	76	93.3	4.3
3	5350.00	63.8 PK	74.0	-10.2	1.04 V	76	59.5	4.3
4	5350.00	47.9 AV	54.0	-6.1	1.04 V	76	43.6	4.3
5	10640.00	48.0 PK	74.0	-26.0	1.56 V	174	34.3	13.7
6	10640.00	36.4 AV	54.0	-17.6	1.56 V	174	22.7	13.7
7	15960.00	51.6 PK	74.0	-22.4	1.95 V	251	37.5	14.1
8	15960.00	38.7 AV	54.0	-15.3	1.95 V	251	24.6	14.1

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.

RF Mode	TX 802.11a	Channel	CH 100：5500 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	55.1 PK	74.0	-18.9	1.33 H	24	50.7	4.4
2	5460.00	42.8 AV	54.0	-11.2	1.33 H	24	38.4	4.4
3	#5470.00	58.7 PK	68.2	-9.5	1.33 H	24	54.2	4.5
4	*5500.00	110.0 PK			1.33 H	24	105.3	4.7
5	*5500.00	99.7 AV			1.33 H	24	95.0	4.7
6	11000.00	47.7 PK	74.0	-26.3	2.20 H	244	33.4	14.3
7	11000.00	36.4 AV	54.0	-17.6	2.20 H	244	22.1	14.3
8	#16500.00	52.6 PK	68.2	-15.6	1.41 H	313	36.8	15.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	55.9 PK	74.0	-18.1	1.07 V	75	51.5	4.4
2	5460.00	41.8 AV	54.0	-12.2	1.07 V	75	37.4	4.4
3	#5468.70	62.3 PK	68.2	-5.9	1.07 V	75	57.8	4.5
4	*5500.00	109.2 PK			1.07 V	75	104.5	4.7
5	*5500.00	99.1 AV			1.07 V	75	94.4	4.7
6	11000.00	47.6 PK	74.0	-26.4	1.62 V	170	33.3	14.3
7	11000.00	36.1 AV	54.0	-17.9	1.62 V	170	21.8	14.3
8	#16500.00	51.8 PK	68.2	-16.4	1.92 V	260	36.0	15.8

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11a	Channel	CH 116：5580 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5580.00	108.2 PK			2.58 H	32	103.7	4.5
2	*5580.00	97.7 AV			2.58 H	32	93.2	4.5
3	11160.00	48.5 PK	74.0	-25.5	2.12 H	253	34.4	14.1
4	11160.00	36.8 AV	54.0	-17.2	2.12 H	253	22.7	14.1
5	#16740.00	52.0 PK	68.2	-16.2	1.35 H	331	35.2	16.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5580.00	107.8 PK			1.17 V	50	103.3	4.5
2	*5580.00	97.8 AV			1.17 V	50	93.3	4.5
3	11160.00	47.9 PK	74.0	-26.1	1.52 V	173	33.8	14.1
4	11160.00	36.4 AV	54.0	-17.6	1.52 V	173	22.3	14.1
5	#16740.00	52.0 PK	68.2	-16.2	1.88 V	250	35.2	16.8

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11a	Channel	CH 140：5700 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5700.00	108.3 PK			2.56 H	23	103.7	4.6
2	*5700.00	96.6 AV			2.56 H	23	92.0	4.6
3	#5725.00	63.8 PK	68.2	-4.4	2.56 H	23	59.1	4.7
4	11400.00	47.8 PK	74.0	-26.2	2.11 H	267	33.3	14.5
5	11400.00	36.6 AV	54.0	-17.4	2.11 H	267	22.1	14.5
6	#17100.00	52.0 PK	68.2	-16.2	1.40 H	312	34.2	17.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5700.00	102.5 PK			1.35 V	79	97.9	4.6
2	*5700.00	92.8 AV			1.35 V	79	88.2	4.6
3	#5725.00	62.8 PK	68.2	-5.4	1.35 V	79	58.1	4.7
4	11400.00	48.5 PK	74.0	-25.5	1.51 V	155	34.0	14.5
5	11400.00	36.9 AV	54.0	-17.1	1.51 V	155	22.4	14.5
6	#17100.00	51.5 PK	68.2	-16.7	1.88 V	257	33.7	17.8

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11a	Channel	CH 144：5720 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	50.4 PK	74.0	-23.6	2.64 H	6	46.0	4.4
2	5460.00	38.7 AV	54.0	-15.3	2.64 H	6	34.3	4.4
3	#5470.00	51.3 PK	68.2	-16.9	2.64 H	6	46.8	4.5
4	*5720.00	108.0 PK			2.64 H	6	103.3	4.7
5	*5720.00	97.9 AV			2.64 H	6	93.2	4.7
6	#5850.00	52.4 PK	68.2	-15.8	2.64 H	6	47.4	5.0
7	11440.00	48.3 PK	74.0	-25.7	2.20 H	249	33.7	14.6
8	11440.00	36.8 AV	54.0	-17.2	2.20 H	249	22.2	14.6
9	#17160.00	52.7 PK	68.2	-15.5	1.36 H	306	34.9	17.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	50.5 PK	74.0	-23.5	2.42 V	15	46.1	4.4
2	5460.00	38.6 AV	54.0	-15.4	2.42 V	15	34.2	4.4
3	#5470.00	51.5 PK	68.2	-16.7	2.42 V	15	47.0	4.5
4	*5720.00	109.3 PK			2.42 V	15	104.6	4.7
5	*5720.00	99.5 AV			2.42 V	15	94.8	4.7
6	#5850.00	52.9 PK	68.2	-15.3	2.42 V	15	47.9	5.0
7	11440.00	47.7 PK	74.0	-26.3	1.60 V	173	33.1	14.6
8	11440.00	36.4 AV	54.0	-17.6	1.60 V	173	21.8	14.6
9	#17160.00	52.2 PK	68.2	-16.0	1.88 V	253	34.4	17.8

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11a	Channel	CH 149：5745 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5649.44	55.4 PK	68.2	-12.8	2.65 H	14	50.9	4.5
2	*5745.00	107.6 PK			2.65 H	14	102.6	5.0
3	*5745.00	97.3 AV			2.65 H	14	92.3	5.0
4	#5981.05	51.6 PK	68.2	-16.6	2.65 H	14	46.4	5.2
5	11490.00	47.7 PK	74.0	-26.3	2.20 H	243	33.1	14.6
6	11490.00	36.3 AV	54.0	-17.7	2.20 H	243	21.7	14.6
7	#17235.00	52.6 PK	68.2	-15.6	1.37 H	332	34.6	18.0
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5646.64	52.2 PK	68.2	-16.0	2.21 V	10	47.7	4.5
2	*5745.00	110.1 PK			2.21 V	10	105.1	5.0
3	*5745.00	101.0 AV			2.21 V	10	96.0	5.0
4	#5926.27	52.0 PK	68.2	-16.2	2.21 V	10	46.9	5.1
5	11490.00	48.6 PK	74.0	-25.4	1.60 V	180	34.0	14.6
6	11490.00	36.9 AV	54.0	-17.1	1.60 V	180	22.3	14.6
7	#17235.00	51.4 PK	68.2	-16.8	1.92 V	249	33.4	18.0

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11a	Channel	CH 157：5785 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5557.92	51.6 PK	68.2	-16.6	2.65 H	26	47.1	4.5
2	*5785.00	107.5 PK			2.65 H	26	102.4	5.1
3	*5785.00	97.0 AV			2.65 H	26	91.9	5.1
4	#5995.05	51.2 PK	68.2	-17.0	2.65 H	26	46.0	5.2
5	11570.00	47.3 PK	74.0	-26.7	2.21 H	239	32.7	14.6
6	11570.00	36.1 AV	54.0	-17.9	2.21 H	239	21.5	14.6
7	#17355.00	52.3 PK	68.2	-15.9	1.41 H	307	34.1	18.2
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5640.46	52.2 PK	68.2	-16.0	2.32 V	9	47.7	4.5
2	*5785.00	110.9 PK			2.32 V	9	105.8	5.1
3	*5785.00	101.1 AV			2.32 V	9	96.0	5.1
4	#5939.99	52.2 PK	68.2	-16.0	2.32 V	9	47.1	5.1
5	11570.00	47.3 PK	74.0	-26.7	1.58 V	167	32.7	14.6
6	11570.00	36.1 AV	54.0	-17.9	1.58 V	167	21.5	14.6
7	#17355.00	52.5 PK	68.2	-15.7	1.97 V	269	34.3	18.2

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11a	Channel	CH 165：5825 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5582.75	51.2 PK	68.2	-17.0	2.64 H	10	46.7	4.5
2	*5825.00	107.5 PK			2.64 H	10	102.5	5.0
3	*5825.00	97.3 AV			2.64 H	10	92.3	5.0
4	#5930.74	51.4 PK	68.2	-16.8	2.64 H	10	46.3	5.1
5	11650.00	47.8 PK	74.0	-26.2	2.16 H	254	33.4	14.4
6	11650.00	36.4 AV	54.0	-17.6	2.16 H	254	22.0	14.4
7	#17475.00	52.5 PK	68.2	-15.7	1.37 H	318	33.7	18.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5615.62	53.3 PK	68.2	-14.9	2.25 V	8	48.8	4.5
2	*5825.00	110.6 PK			2.25 V	8	105.6	5.0
3	*5825.00	101.3 AV			2.25 V	8	96.3	5.0
4	#5963.36	54.2 PK	68.2	-14.0	2.25 V	8	49.0	5.2
5	11650.00	48.0 PK	74.0	-26.0	1.57 V	166	33.6	14.4
6	11650.00	36.5 AV	54.0	-17.5	1.57 V	166	22.1	14.4
7	#17475.00	51.9 PK	68.2	-16.3	1.93 V	254	33.1	18.8

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ac (VHT20)	Channel	CH 36：5180 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	65.3 PK	74.0	-8.7	2.62 H	18	60.6	4.7
2	**5150.00**	**50.0 AV**	**54.0**	**-4.0**	**2.62 H**	**18**	**45.3**	**4.7**
3	*5180.00	109.5 PK			2.62 H	18	104.9	4.6
4	*5180.00	100.2 AV			2.62 H	18	95.6	4.6
5	#10360.00	47.2 PK	68.2	-21.0	2.10 H	251	33.8	13.4
6	15540.00	52.6 PK	74.0	-21.4	1.33 H	296	38.1	14.5
7	15540.00	39.4 AV	54.0	-14.6	1.33 H	296	24.9	14.5
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	62.3 PK	74.0	-11.7	1.22 V	63	57.6	4.7
2	5150.00	48.5 AV	54.0	-5.5	1.22 V	63	43.8	4.7
3	*5180.00	108.3 PK			1.22 V	63	103.7	4.6
4	*5180.00	96.5 AV			1.22 V	63	91.9	4.6
5	#10360.00	48.2 PK	68.2	-20.0	1.61 V	182	34.8	13.4
6	15540.00	50.8 PK	74.0	-23.2	1.93 V	259	36.3	14.5
7	15540.00	38.3 AV	54.0	-15.7	1.93 V	259	23.8	14.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ac (VHT20)	Channel	CH 40：5200 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	55.6 PK	74.0	-18.4	2.63 H	29	50.9	4.7
2	5150.00	44.0 AV	54.0	-10.0	2.63 H	29	39.3	4.7
3	*5200.00	112.3 PK			2.63 H	29	107.9	4.4
4	*5200.00	102.7 AV			2.63 H	29	98.3	4.4
5	5350.00	56.0 PK	74.0	-18.0	2.63 H	29	51.7	4.3
6	5350.00	44.2 AV	54.0	-9.8	2.63 H	29	39.9	4.3
7	#10400.00	47.4 PK	68.2	-20.8	2.11 H	271	33.8	13.6
8	15600.00	53.2 PK	74.0	-20.8	1.37 H	321	38.7	14.5
9	15600.00	39.5 AV	54.0	-14.5	1.37 H	321	25.0	14.5
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	55.8 PK	74.0	-18.2	1.32 V	62	51.1	4.7
2	5150.00	44.3 AV	54.0	-9.7	1.32 V	62	39.6	4.7
3	*5200.00	109.1 PK			1.32 V	62	104.7	4.4
4	*5200.00	97.9 AV			1.32 V	62	93.5	4.4
5	5350.00	50.5 PK	74.0	-23.5	1.32 V	62	46.2	4.3
6	5350.00	38.8 AV	54.0	-15.2	1.32 V	62	34.5	4.3
7	#10400.00	47.7 PK	68.2	-20.5	1.56 V	157	34.1	13.6
8	15600.00	50.5 PK	74.0	-23.5	1.86 V	245	36.0	14.5
9	15600.00	38.0 AV	54.0	-16.0	1.86 V	245	23.5	14.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ac (VHT20)	Channel	CH 48：5240 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5240.00	111.8 PK			2.63 H	13	107.4	4.4
2	*5240.00	102.2 AV			2.63 H	13	97.8	4.4
3	5350.00	55.9 PK	74.0	-18.1	2.63 H	13	51.6	4.3
4	5350.00	44.5 AV	54.0	-9.5	2.63 H	13	40.2	4.3
5	#10480.00	47.1 PK	68.2	-21.1	2.12 H	253	33.4	13.7
6	15720.00	53.2 PK	74.0	-20.8	1.42 H	293	38.8	14.4
7	15720.00	39.5 AV	54.0	-14.5	1.42 H	293	25.1	14.4
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5240.00	107.8 PK			1.20 V	65	103.4	4.4
2	*5240.00	96.2 AV			1.20 V	65	91.8	4.4
3	5350.00	51.9 PK	74.0	-22.1	1.20 V	65	47.6	4.3
4	5350.00	38.9 AV	54.0	-15.1	1.20 V	65	34.6	4.3
5	#10480.00	47.5 PK	68.2	-20.7	1.54 V	161	33.8	13.7
6	15720.00	50.9 PK	74.0	-23.1	1.86 V	258	36.5	14.4
7	15720.00	38.4 AV	54.0	-15.6	1.86 V	258	24.0	14.4

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ac (VHT20)	Channel	CH 52：5260 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	56.3 PK	74.0	-17.7	2.66 H	14	51.6	4.7
2	5150.00	44.8 AV	54.0	-9.2	2.66 H	14	40.1	4.7
3	*5260.00	110.3 PK			2.66 H	14	106.0	4.3
4	*5260.00	101.1 AV			2.66 H	14	96.8	4.3
5	#10520.00	46.8 PK	68.2	-21.4	2.14 H	255	33.0	13.8
6	15780.00	52.6 PK	74.0	-21.4	1.33 H	319	38.3	14.3
7	15780.00	39.4 AV	54.0	-14.6	1.33 H	319	25.1	14.3
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	52.4 PK	74.0	-21.6	1.00 V	71	47.7	4.7
2	5150.00	40.5 AV	54.0	-13.5	1.00 V	71	35.8	4.7
3	*5260.00	108.6 PK			1.00 V	71	104.3	4.3
4	*5260.00	97.3 AV			1.00 V	71	93.0	4.3
5	#10520.00	47.5 PK	68.2	-20.7	1.60 V	184	33.7	13.8
6	15780.00	50.6 PK	74.0	-23.4	1.90 V	239	36.3	14.3
7	15780.00	38.1 AV	54.0	-15.9	1.90 V	239	23.8	14.3

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ac (VHT20)	Channel	CH 60：5300 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5300.00	110.1 PK			2.65 H	31	105.8	4.3
2	*5300.00	100.9 AV			2.65 H	31	96.6	4.3
3	10600.00	46.9 PK	74.0	-27.1	2.16 H	255	33.3	13.6
4	10600.00	36.0 AV	54.0	-18.0	2.16 H	255	22.4	13.6
5	15900.00	52.1 PK	74.0	-21.9	1.41 H	316	38.0	14.1
6	15900.00	38.8 AV	54.0	-15.2	1.41 H	316	24.7	14.1
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5300.00	108.6 PK			1.27 V	65	104.3	4.3
2	*5300.00	97.4 AV			1.27 V	65	93.1	4.3
3	10600.00	48.0 PK	74.0	-26.0	1.58 V	176	34.4	13.6
4	10600.00	36.3 AV	54.0	-17.7	1.58 V	176	22.7	13.6
5	15900.00	51.5 PK	74.0	-22.5	1.88 V	251	37.4	14.1
6	15900.00	38.7 AV	54.0	-15.3	1.88 V	251	24.6	14.1

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.

RF Mode	TX 802.11ac (VHT20)	Channel	CH 64：5320 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5320.00	112.3 PK			2.65 H	26	108.0	4.3
2	*5320.00	100.6 AV			2.65 H	26	96.3	4.3
3	5350.00	69.3 PK	74.0	-4.7	2.65 H	26	65.0	4.3
4	5350.00	48.9 AV	54.0	-5.1	2.65 H	26	44.6	4.3
5	10640.00	47.2 PK	74.0	-26.8	2.16 H	258	33.5	13.7
6	10640.00	36.3 AV	54.0	-17.7	2.16 H	258	22.6	13.7
7	15960.00	53.0 PK	74.0	-21.0	1.36 H	313	38.9	14.1
8	15960.00	39.5 AV	54.0	-14.5	1.36 H	313	25.4	14.1
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5320.00	107.5 PK			1.13 V	75	103.2	4.3
2	*5320.00	96.5 AV			1.13 V	75	92.2	4.3
3	5350.00	65.7 PK	74.0	-8.3	1.13 V	75	61.4	4.3
4	5350.00	46.3 AV	54.0	-7.7	1.13 V	75	42.0	4.3
5	10640.00	47.7 PK	74.0	-26.3	1.63 V	166	34.0	13.7
6	10640.00	35.8 AV	54.0	-18.2	1.63 V	166	22.1	13.7
7	15960.00	51.2 PK	74.0	-22.8	1.86 V	250	37.1	14.1
8	15960.00	38.3 AV	54.0	-15.7	1.86 V	250	24.2	14.1

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.

RF Mode	TX 802.11ac (VHT20)	Channel	CH 100：5500 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	58.6 PK	74.0	-15.4	2.84 H	12	54.2	4.4
2	5460.00	43.7 AV	54.0	-10.3	2.84 H	12	39.3	4.4
3	#5461.72	63.6 PK	68.2	-4.6	2.84 H	12	59.2	4.4
4	*5500.00	110.8 PK			2.84 H	12	106.1	4.7
5	*5500.00	98.4 AV			2.84 H	12	93.7	4.7
6	11000.00	48.1 PK	74.0	-25.9	2.13 H	269	33.8	14.3
7	11000.00	36.9 AV	54.0	-17.1	2.13 H	269	22.6	14.3
8	#16500.00	52.4 PK	68.2	-15.8	1.39 H	309	36.6	15.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5459.65	56.8 PK	74.0	-17.2	1.28 V	67	52.4	4.4
2	5459.65	41.4 AV	54.0	-12.6	1.28 V	67	37.0	4.4
3	5460.00	55.2 PK	74.0	-18.8	1.28 V	67	50.8	4.4
4	5460.00	41.7 AV	54.0	-12.3	1.28 V	67	37.3	4.4
5	#5463.90	63.4 PK	68.2	-4.8	1.28 V	67	58.9	4.5
6	*5500.00	107.0 PK			1.28 V	67	102.3	4.7
7	*5500.00	96.4 AV			1.28 V	67	91.7	4.7
8	11000.00	47.9 PK	74.0	-26.1	1.64 V	162	33.6	14.3
9	11000.00	36.4 AV	54.0	-17.6	1.64 V	162	22.1	14.3
10	#16500.00	50.6 PK	68.2	-17.6	1.86 V	240	34.8	15.8

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ac (VHT20)	Channel	CH 116：5580 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5580.00	110.7 PK			2.59 H	23	106.2	4.5
2	*5580.00	101.4 AV			2.59 H	23	96.9	4.5
3	11160.00	47.5 PK	74.0	-26.5	2.16 H	253	33.4	14.1
4	11160.00	36.4 AV	54.0	-17.6	2.16 H	253	22.3	14.1
5	#16740.00	52.1 PK	68.2	-16.1	1.42 H	318	35.3	16.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5580.00	108.4 PK			1.20 V	52	103.9	4.5
2	*5580.00	96.9 AV			1.20 V	52	92.4	4.5
3	11160.00	47.9 PK	74.0	-26.1	1.63 V	173	33.8	14.1
4	11160.00	36.1 AV	54.0	-17.9	1.63 V	173	22.0	14.1
5	#16740.00	50.4 PK	68.2	-17.8	1.94 V	241	33.6	16.8

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ac (VHT20)	Channel	CH 140：5700 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5700.00	108.2 PK			2.62 H	35	103.6	4.6
2	*5700.00	96.5 AV			2.62 H	35	91.9	4.6
3	#5725.00	63.9 PK	68.2	-4.3	2.61 H	38	59.2	4.7
4	11400.00	48.1 PK	74.0	-25.9	2.17 H	264	33.6	14.5
5	11400.00	36.6 AV	54.0	-17.4	2.17 H	264	22.1	14.5
6	#17100.00	52.4 PK	68.2	-15.8	1.37 H	298	34.6	17.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5700.00	106.1 PK			1.09 V	62	101.5	4.6
2	*5700.00	95.5 AV			1.09 V	62	90.9	4.6
3	#5725.00	64.1 PK	68.2	-4.1	1.09 V	62	59.4	4.7
4	11400.00	47.3 PK	74.0	-26.7	1.64 V	172	32.8	14.5
5	11400.00	35.5 AV	54.0	-18.5	1.64 V	172	21.0	14.5
6	#17100.00	50.6 PK	68.2	-17.6	1.94 V	244	32.8	17.8

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ac (VHT20)	Channel	CH 144：5720 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	56.1 PK	74.0	-17.9	2.64 H	21	51.7	4.4
2	5460.00	44.6 AV	54.0	-9.4	2.64 H	21	40.2	4.4
3	#5470.00	55.5 PK	68.2	-12.7	2.64 H	21	51.0	4.5
4	*5720.00	110.8 PK			2.64 H	21	106.1	4.7
5	*5720.00	101.4 AV			2.64 H	21	96.7	4.7
6	#5850.00	55.4 PK	68.2	-12.8	2.64 H	21	50.4	5.0
7	11440.00	47.9 PK	74.0	-26.1	2.19 H	254	33.3	14.6
8	11440.00	36.8 AV	54.0	-17.2	2.19 H	254	22.2	14.6
9	#17160.00	52.7 PK	68.2	-15.5	1.36 H	315	34.9	17.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	55.8 PK	74.0	-18.2	1.26 V	46	51.4	4.4
2	5460.00	44.5 AV	54.0	-9.5	1.26 V	46	40.1	4.4
3	#5470.00	55.5 PK	68.2	-12.7	1.26 V	46	51.0	4.5
4	*5720.00	108.9 PK			1.26 V	46	104.2	4.7
5	*5720.00	97.8 AV			1.26 V	46	93.1	4.7
6	#5850.00	56.2 PK	68.2	-12.0	1.26 V	46	51.2	5.0
7	11440.00	47.6 PK	74.0	-26.4	1.59 V	180	33.0	14.6
8	11440.00	35.8 AV	54.0	-18.2	1.59 V	180	21.2	14.6
9	#17160.00	50.5 PK	68.2	-17.7	1.98 V	233	32.7	17.8

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ac (VHT20)	Channel	CH 149：5745 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5577.80	52.5 PK	68.2	-15.7	2.61 H	17	48.0	4.5
2	*5745.00	111.6 PK			2.61 H	17	106.6	5.0
3	*5745.00	102.5 AV			2.61 H	17	97.5	5.0
4	#5982.91	51.2 PK	68.2	-17.0	2.61 H	17	46.0	5.2
5	11490.00	47.3 PK	74.0	-26.7	2.12 H	254	32.7	14.6
6	11490.00	36.3 AV	54.0	-17.7	2.12 H	254	21.7	14.6
7	#17235.00	52.4 PK	68.2	-15.8	1.40 H	319	34.4	18.0
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5613.92	52.2 PK	68.2	-16.0	2.48 V	12	47.7	4.5
2	*5745.00	109.6 PK			2.48 V	12	104.6	5.0
3	*5745.00	101.4 AV			2.48 V	12	96.4	5.0
4	#5938.38	52.0 PK	68.2	-16.2	2.48 V	12	46.9	5.1
5	11490.00	47.1 PK	74.0	-26.9	1.59 V	184	32.5	14.6
6	11490.00	35.7 AV	54.0	-18.3	1.59 V	184	21.1	14.6
7	#17235.00	51.5 PK	68.2	-16.7	1.97 V	242	33.5	18.0

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ac (VHT20)	Channel	CH 157：5785 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5633.04	51.8 PK	68.2	-16.4	2.68 H	12	47.3	4.5
2	*5785.00	112.4 PK			2.68 H	12	107.3	5.1
3	*5785.00	102.9 AV			2.68 H	12	97.8	5.1
4	#5987.23	51.4 PK	68.2	-16.8	2.68 H	12	46.2	5.2
5	11570.00	47.3 PK	74.0	-26.7	2.19 H	265	32.7	14.6
6	11570.00	35.9 AV	54.0	-18.1	2.19 H	265	21.3	14.6
7	#17355.00	52.6 PK	68.2	-15.6	1.37 H	297	34.4	18.2
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5599.80	52.0 PK	68.2	-16.2	2.46 V	11	47.5	4.5
2	*5785.00	110.2 PK			2.46 V	11	105.1	5.1
3	*5785.00	101.6 AV			2.46 V	11	96.5	5.1
4	#5970.61	52.6 PK	68.2	-15.6	2.46 V	11	47.4	5.2
5	11570.00	47.5 PK	74.0	-26.5	1.61 V	162	32.9	14.6
6	11570.00	36.1 AV	54.0	-17.9	1.61 V	162	21.5	14.6
7	#17355.00	51.5 PK	68.2	-16.7	1.92 V	255	33.3	18.2

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ac (VHT20)	Channel	CH 165：5825 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5623.20	51.8 PK	68.2	-16.4	2.60 H	24	47.3	4.5
2	*5825.00	112.7 PK			2.60 H	24	107.7	5.0
3	*5825.00	103.1 AV			2.60 H	24	98.1	5.0
4	#5928.15	53.2 PK	68.2	-15.0	2.60 H	24	48.1	5.1
5	11650.00	48.1 PK	74.0	-25.9	2.16 H	252	33.7	14.4
6	11650.00	36.8 AV	54.0	-17.2	2.16 H	252	22.4	14.4
7	#17475.00	52.6 PK	68.2	-15.6	1.32 H	316	33.8	18.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5588.25	52.6 PK	68.2	-15.6	2.54 V	10	48.1	4.5
2	*5825.00	111.0 PK			2.54 V	10	106.0	5.0
3	*5825.00	101.9 AV			2.54 V	10	96.9	5.0
4	#5966.37	53.0 PK	68.2	-15.2	2.54 V	10	47.8	5.2
5	11650.00	47.8 PK	74.0	-26.2	1.61 V	161	33.4	14.4
6	11650.00	36.3 AV	54.0	-17.7	1.61 V	161	21.9	14.4
7	#17475.00	51.0 PK	68.2	-17.2	1.96 V	258	32.2	18.8

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ac (VHT40)	Channel	CH 38：5190 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	65.0 PK	74.0	-9.0	2.94 H	17	60.3	4.7
2	5150.00	48.4 AV	54.0	-5.6	2.94 H	17	43.7	4.7
3	*5190.00	108.0 PK			2.94 H	17	103.5	4.5
4	*5190.00	95.7 AV			2.94 H	17	91.2	4.5
5	#10380.00	48.0 PK	68.2	-20.2	2.18 H	250	34.6	13.4
6	15570.00	52.3 PK	74.0	-21.7	1.42 H	318	37.7	14.6
7	15570.00	39.0 AV	54.0	-15.0	1.42 H	318	24.4	14.6
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	66.2 PK	74.0	-7.8	1.10 V	62	61.5	4.7
2	5150.00	49.7 AV	54.0	-4.3	1.10 V	62	45.0	4.7
3	*5190.00	105.1 PK			1.10 V	62	100.6	4.5
4	*5190.00	92.7 AV			1.10 V	62	88.2	4.5
5	#10380.00	47.4 PK	68.2	-20.8	1.58 V	158	34.0	13.4
6	15570.00	51.0 PK	74.0	-23.0	1.90 V	237	36.4	14.6
7	15570.00	38.1 AV	54.0	-15.9	1.90 V	237	23.5	14.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ac (VHT40)	Channel	CH 46：5230 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5230.00	110.7 PK			2.62 H	27	106.3	4.4
2	*5230.00	98.4 AV			2.62 H	27	94.0	4.4
3	5350.00	51.4 PK	74.0	-22.6	2.62 H	27	47.1	4.3
4	5350.00	40.8 AV	54.0	-13.2	2.62 H	27	36.5	4.3
5	#10460.00	47.2 PK	68.2	-21.0	2.13 H	247	33.6	13.6
6	15690.00	52.5 PK	74.0	-21.5	1.38 H	311	38.0	14.5
7	15690.00	39.3 AV	54.0	-14.7	1.38 H	311	24.8	14.5
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5230.00	107.7 PK			1.28 V	350	103.3	4.4
2	*5230.00	95.4 AV			1.28 V	350	91.0	4.4
3	5350.00	51.5 PK	74.0	-22.5	1.28 V	350	47.2	4.3
4	5350.00	40.9 AV	54.0	-13.1	1.28 V	350	36.6	4.3
5	#10460.00	47.9 PK	68.2	-20.3	1.56 V	167	34.3	13.6
6	15690.00	50.7 PK	74.0	-23.3	1.93 V	234	36.2	14.5
7	15690.00	37.9 AV	54.0	-16.1	1.93 V	234	23.4	14.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ac (VHT40)	Channel	CH 54：5270 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	51.8 PK	74.0	-22.2	2.64 H	4	47.1	4.7
2	5150.00	41.4 AV	54.0	-12.6	2.64 H	4	36.7	4.7
3	*5270.00	110.6 PK			2.64 H	4	106.3	4.3
4	*5270.00	98.4 AV			2.64 H	4	94.1	4.3
5	#10540.00	47.8 PK	68.2	-20.4	2.19 H	271	34.1	13.7
6	15810.00	52.7 PK	74.0	-21.3	1.42 H	310	38.5	14.2
7	15810.00	39.5 AV	54.0	-14.5	1.42 H	310	25.3	14.2
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	52.7 PK	74.0	-21.3	1.03 V	75	48.0	4.7
2	5150.00	41.8 AV	54.0	-12.2	1.03 V	75	37.1	4.7
3	*5270.00	107.5 PK			1.03 V	75	103.2	4.3
4	*5270.00	97.4 AV			1.03 V	75	93.1	4.3
5	#10540.00	47.7 PK	68.2	-20.5	1.63 V	166	34.0	13.7
6	15810.00	51.2 PK	74.0	-22.8	1.94 V	237	37.0	14.2
7	15810.00	38.3 AV	54.0	-15.7	1.94 V	237	24.1	14.2

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ac (VHT40)	Channel	CH 62：5310 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5310.00	108.1 PK			2.53 H	29	103.8	4.3
2	*5310.00	96.0 AV			2.53 H	29	91.7	4.3
3	5350.00	66.8 PK	74.0	-7.2	2.53 H	29	62.5	4.3
4	5350.00	49.3 AV	54.0	-4.7	2.53 H	29	45.0	4.3
5	10620.00	47.9 PK	74.0	-26.1	2.15 H	251	34.2	13.7
6	10620.00	36.5 AV	54.0	-17.5	2.15 H	251	22.8	13.7
7	15930.00	52.2 PK	74.0	-21.8	1.41 H	317	38.1	14.1
8	15930.00	38.9 AV	54.0	-15.1	1.41 H	317	24.8	14.1
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5310.00	105.1 PK			1.09 V	71	100.8	4.3
2	*5310.00	95.0 AV			1.09 V	71	90.7	4.3
3	5350.00	66.9 PK	74.0	-7.1	1.09 V	71	62.6	4.3
4	5350.00	49.4 AV	54.0	-4.6	1.09 V	71	45.1	4.3
5	10620.00	47.4 PK	74.0	-26.6	1.54 V	173	33.7	13.7
6	10620.00	35.9 AV	54.0	-18.1	1.54 V	173	22.2	13.7
7	15930.00	50.7 PK	74.0	-23.3	1.86 V	240	36.6	14.1
8	15930.00	38.2 AV	54.0	-15.8	1.86 V	240	24.1	14.1

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.

RF Mode	TX 802.11ac (VHT40)	Channel	CH 102：5510 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5457.10	58.7 PK	74.0	-15.3	2.47 H	27	54.3	4.4
2	5457.10	42.8 AV	54.0	-11.2	2.47 H	27	38.4	4.4
3	5460.00	57.7 PK	74.0	-16.3	2.47 H	27	53.3	4.4
4	5460.00	43.0 AV	54.0	-11.0	2.47 H	27	38.6	4.4
5	#5468.56	62.7 PK	68.2	-5.5	2.47 H	27	58.2	4.5
6	*5510.00	104.4 PK			2.47 H	27	99.7	4.7
7	*5510.00	92.8 AV			2.47 H	27	88.1	4.7
8	11020.00	47.8 PK	74.0	-26.2	2.15 H	252	33.6	14.2
9	11020.00	36.4 AV	54.0	-17.6	2.15 H	252	22.2	14.2
10	#16530.00	52.1 PK	68.2	-16.1	1.38 H	299	36.2	15.9
Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	5460.00	60.6 PK	74.0	-13.4	1.06 V	75	56.2	4.4
2	5460.00	45.3 AV	54.0	-8.7	1.06 V	75	40.9	4.4
3	#5469.45	62.8 PK	68.2	-5.4	1.06 V	75	58.3	4.5
4	*5510.00	103.8 PK			1.06 V	75	99.1	4.7
5	*5510.00	94.9 AV			1.06 V	75	90.2	4.7
6	11020.00	47.5 PK	74.0	-26.5	1.64 V	165	33.3	14.2
7	11020.00	35.8 AV	54.0	-18.2	1.64 V	165	21.6	14.2
8	#16530.00	51.2 PK	68.2	-17.0	1.91 V	252	35.3	15.9

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ac (VHT40)	Channel	CH 110：5550 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5550.00	111.4 PK			2.65 H	3	106.9	4.5
2	*5550.00	98.8 AV			2.65 H	3	94.3	4.5
3	11100.00	47.1 PK	74.0	-26.9	2.19 H	269	33.2	13.9
4	11100.00	36.1 AV	54.0	-17.9	2.19 H	269	22.2	13.9
5	#16650.00	52.7 PK	68.2	-15.5	1.34 H	306	36.3	16.4
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5550.00	108.8 PK			1.07 V	70	104.3	4.5
2	*5550.00	97.1 AV			1.07 V	70	92.6	4.5
3	11100.00	47.4 PK	74.0	-26.6	1.55 V	182	33.5	13.9
4	11100.00	35.7 AV	54.0	-18.3	1.55 V	182	21.8	13.9
5	#16650.00	50.9 PK	68.2	-17.3	1.89 V	241	34.5	16.4

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ac (VHT40)	Channel	CH 134：5670 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5670.00	105.9 PK			2.45 H	20	101.4	4.5
2	*5670.00	93.3 AV			2.45 H	20	88.8	4.5
3	#5725.00	62.3 PK	68.2	-5.9	2.45 H	20	57.6	4.7
4	11340.00	47.8 PK	74.0	-26.2	2.11 H	254	33.4	14.4
5	11340.00	36.7 AV	54.0	-17.3	2.11 H	254	22.3	14.4
6	#17010.00	51.9 PK	68.2	-16.3	1.36 H	314	34.1	17.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5670.00	105.2 PK			1.06 V	74	100.7	4.5
2	*5670.00	93.4 AV			1.06 V	74	88.9	4.5
3	#5725.00	63.9 PK	68.2	-4.3	1.06 V	74	59.2	4.7
4	11340.00	48.3 PK	74.0	-25.7	1.58 V	160	33.9	14.4
5	11340.00	36.4 AV	54.0	-17.6	1.58 V	160	22.0	14.4
6	#17010.00	51.2 PK	68.2	-17.0	1.92 V	251	33.4	17.8

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ac (VHT40)	Channel	CH 142：5710 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	51.4 PK	74.0	-22.6	2.67 H	26	47.0	4.4
2	5460.00	39.3 AV	54.0	-14.7	2.67 H	26	34.9	4.4
3	#5470.00	51.0 PK	68.2	-17.2	2.67 H	26	46.5	4.5
4	*5710.00	110.5 PK			2.67 H	26	105.8	4.7
5	*5710.00	98.2 AV			2.67 H	26	93.5	4.7
6	#5850.00	51.9 PK	68.2	-16.3	2.67 H	26	46.9	5.0
7	11420.00	47.5 PK	74.0	-26.5	2.19 H	254	33.0	14.5
8	11420.00	36.1 AV	54.0	-17.9	2.19 H	254	21.6	14.5
9	#17130.00	52.3 PK	68.2	-15.9	1.42 H	315	34.6	17.7
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	51.3 PK	74.0	-22.7	1.14 V	198	46.9	4.4
2	5460.00	38.9 AV	54.0	-15.1	1.14 V	198	34.5	4.4
3	#5470.00	51.9 PK	68.2	-16.3	1.14 V	198	47.4	4.5
4	*5710.00	107.8 PK			1.14 V	198	103.1	4.7
5	*5710.00	95.2 AV			1.14 V	198	90.5	4.7
6	#5850.00	52.6 PK	68.2	-15.6	1.14 V	198	47.6	5.0
7	11420.00	47.7 PK	74.0	-26.3	1.54 V	158	33.2	14.5
8	11420.00	36.0 AV	54.0	-18.0	1.54 V	158	21.5	14.5
9	#17130.00	51.4 PK	68.2	-16.8	1.88 V	246	33.7	17.7

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ac (VHT40)	Channel	CH 151：5755 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5648.35	59.9 PK	68.2	-8.3	2.67 H	13	55.4	4.5
2	*5755.00	112.9 PK			2.67 H	13	107.9	5.0
3	*5755.00	100.2 AV			2.67 H	13	95.2	5.0
4	#5930.11	52.1 PK	68.2	-16.1	2.67 H	13	47.0	5.1
5	11510.00	48.0 PK	74.0	-26.0	2.20 H	249	33.4	14.6
6	11510.00	36.5 AV	54.0	-17.5	2.20 H	249	21.9	14.6
7	#17265.00	52.6 PK	68.2	-15.6	1.37 H	320	34.7	17.9
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5640.51	54.6 PK	68.2	-13.6	2.47 V	12	50.1	4.5
2	*5755.00	109.6 PK			2.47 V	12	104.6	5.0
3	*5755.00	98.3 AV			2.47 V	12	93.3	5.0
4	#5932.04	52.0 PK	68.2	-16.2	2.47 V	12	46.9	5.1
5	11510.00	47.3 PK	74.0	-26.7	1.58 V	177	32.7	14.6
6	11510.00	35.7 AV	54.0	-18.3	1.58 V	177	21.1	14.6
7	#17265.00	51.3 PK	68.2	-16.9	1.91 V	235	33.4	17.9

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ac (VHT40)	Channel	CH 159：5795 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5626.57	51.8 PK	68.2	-16.4	2.64 H	10	47.3	4.5
2	*5795.00	113.3 PK			2.64 H	10	108.2	5.1
3	*5795.00	100.6 AV			2.64 H	10	95.5	5.1
4	#5922.73	56.1 PK	69.9	-13.8	2.64 H	10	51.0	5.1
5	11590.00	47.5 PK	74.0	-26.5	2.20 H	277	32.9	14.6
6	11590.00	36.2 AV	54.0	-17.8	2.20 H	277	21.6	14.6
7	#17385.00	52.5 PK	68.2	-15.7	1.33 H	315	34.2	18.3
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5552.03	52.4 PK	68.2	-15.8	2.41 V	11	47.9	4.5
2	*5795.00	107.3 PK			2.41 V	11	102.2	5.1
3	*5795.00	97.6 AV			2.41 V	11	92.5	5.1
4	#5925.97	55.5 PK	68.2	-12.7	2.41 V	11	50.4	5.1
5	11590.00	47.2 PK	74.0	-26.8	1.60 V	160	32.6	14.6
6	11590.00	35.6 AV	54.0	-18.4	1.60 V	160	21.0	14.6
7	#17385.00	50.7 PK	68.2	-17.5	1.85 V	252	32.4	18.3

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ac (VHT80)	Channel	CH 42：5210 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	64.5 PK	74.0	-9.5	2.55 H	14	59.8	4.7
2	5150.00	49.1 AV	54.0	-4.9	2.55 H	14	44.4	4.7
3	*5210.00	101.7 PK			2.55 H	14	97.3	4.4
4	*5210.00	91.9 AV			2.55 H	14	87.5	4.4
5	5350.00	52.2 PK	74.0	-21.8	2.55 H	14	47.9	4.3
6	5350.00	41.0 AV	54.0	-13.0	2.55 H	14	36.7	4.3
7	#10420.00	47.8 PK	68.2	-20.4	2.11 H	265	34.3	13.5
8	15630.00	52.8 PK	74.0	-21.2	1.37 H	320	38.2	14.6
9	15630.00	39.2 AV	54.0	-14.8	1.37 H	320	24.6	14.6
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	64.7 PK	74.0	-9.3	1.15 V	57	60.0	4.7
2	5150.00	49.6 AV	54.0	-4.4	1.15 V	57	44.9	4.7
3	*5210.00	97.2 PK			1.15 V	57	92.8	4.4
4	*5210.00	88.9 AV			1.15 V	57	84.5	4.4
5	5357.20	52.2 PK	74.0	-21.8	1.15 V	57	47.8	4.4
6	5357.20	39.5 AV	54.0	-14.5	1.15 V	57	35.1	4.4
7	#10420.00	47.8 PK	68.2	-20.4	1.54 V	173	34.3	13.5
8	15630.00	50.9 PK	74.0	-23.1	1.96 V	252	36.3	14.6
9	15630.00	38.0 AV	54.0	-16.0	1.96 V	252	23.4	14.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ac (VHT80)	Channel	CH 58：5290 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	51.6 PK	74.0	-22.4	2.53 H	30	46.9	4.7
2	5150.00	41.5 AV	54.0	-12.5	2.53 H	30	36.8	4.7
3	*5290.00	102.8 PK			2.53 H	30	98.5	4.3
4	*5290.00	92.1 AV			2.53 H	30	87.8	4.3
5	5350.00	61.5 PK	74.0	-12.5	2.53 H	30	57.2	4.3
6	5350.00	49.7 AV	54.0	-4.3	2.53 H	30	45.4	4.3
7	#10580.00	47.8 PK	68.2	-20.4	2.13 H	260	34.1	13.7
8	15870.00	52.7 PK	74.0	-21.3	1.32 H	298	38.5	14.2
9	15870.00	39.1 AV	54.0	-14.9	1.32 H	298	24.9	14.2
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5123.40	52.5 PK	74.0	-21.5	1.04 V	72	47.7	4.8
2	5123.40	41.2 AV	54.0	-12.8	1.04 V	72	36.4	4.8
3	*5290.00	98.8 PK			1.04 V	72	94.5	4.3
4	*5290.00	89.2 AV			1.04 V	72	84.9	4.3
5	5350.00	60.5 PK	74.0	-13.5	1.04 V	72	56.2	4.3
6	5350.00	49.5 AV	54.0	-4.5	1.04 V	72	45.2	4.3
7	5376.00	63.2 PK	74.0	-10.8	1.04 V	72	58.8	4.4
8	5376.00	44.0 AV	54.0	-10.0	1.04 V	72	39.6	4.4
9	#10580.00	48.6 PK	68.2	-19.6	1.54 V	144	34.9	13.7
10	15870.00	51.0 PK	74.0	-23.0	1.90 V	246	36.8	14.2
11	15870.00	38.4 AV	54.0	-15.6	1.90 V	246	24.2	14.2

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ac (VHT80)	Channel	CH 106：5530 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	61.6 PK	74.0	-12.4	2.56 H	27	57.2	4.4
2	5460.00	47.2 AV	54.0	-6.8	2.56 H	27	42.8	4.4
3	#5469.71	61.4 PK	68.2	-6.8	2.56 H	27	56.9	4.5
4	*5530.00	100.7 PK			2.56 H	27	96.1	4.6
5	*5530.00	90.1 AV			2.56 H	27	85.5	4.6
6	#5725.00	52.0 PK	68.2	-16.2	2.56 H	27	47.3	4.7
7	11060.00	47.5 PK	74.0	-26.5	2.20 H	248	33.4	14.1
8	11060.00	36.5 AV	54.0	-17.5	2.20 H	248	22.4	14.1
9	#16590.00	52.7 PK	68.2	-15.5	1.35 H	314	36.6	16.1
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5457.40	63.8 PK	74.0	-10.2	1.42 V	71	59.4	4.4
2	5457.40	45.8 AV	54.0	-8.2	1.42 V	71	41.4	4.4
3	**#5468.00**	**64.2 PK**	**68.2**	**-4.0**	**1.42 V**	**71**	**59.7**	**4.5**
4	*5530.00	97.3 PK			1.42 V	71	92.7	4.6
5	*5530.00	87.4 AV			1.42 V	71	82.8	4.6
6	#5842.55	51.9 PK	68.2	-16.3	1.42 V	71	46.9	5.0
7	11060.00	48.1 PK	74.0	-25.9	1.53 V	163	34.0	14.1
8	11060.00	36.3 AV	54.0	-17.7	1.53 V	163	22.2	14.1
9	#16590.00	50.6 PK	68.2	-17.6	1.88 V	237	34.5	16.1

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ac (VHT80)	Channel	CH 122：5610 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	51.6 PK	74.0	-22.4	2.62 H	5	47.2	4.4
2	5460.00	40.5 AV	54.0	-13.5	2.62 H	5	36.1	4.4
3	#5470.00	52.0 PK	68.2	-16.2	2.62 H	5	47.5	4.5
4	#5470.00	40.8 AV	54.0	-13.2	2.62 H	5	36.3	4.5
5	*5610.00	104.7 PK			2.62 H	5	100.2	4.5
6	*5610.00	94.8 AV			2.62 H	5	90.3	4.5
7	#5725.00	52.0 PK	68.2	-16.2	2.62 H	5	47.3	4.7
8	11220.00	47.2 PK	74.0	-26.8	2.13 H	266	32.8	14.4
9	11220.00	36.3 AV	54.0	-17.7	2.13 H	266	21.9	14.4
10	#16830.00	52.5 PK	68.2	-15.7	1.41 H	322	35.2	17.3
Antenna Polarity & Test Distance : Vertical at 3 m								
No	**Frequency (MHz)**	**Emission Level (dBuV/m)**	**Limit (dBuV/m)**	**Margin (dB)**	**Antenna Height (m)**	**Table Angle (Degree)**	**Raw Value (dBuV)**	**Correction Factor (dB/m)**
1	5460.00	60.7 PK	74.0	-13.3	1.06 V	75	56.3	4.4
2	5460.00	49.5 AV	54.0	-4.5	1.06 V	75	45.1	4.4
3	**#5470.00**	**64.2 PK**	**68.2**	**-4.0**	**1.06 V**	**75**	**59.7**	**4.5**
4	*5610.00	100.8 PK			1.06 V	75	96.3	4.5
5	*5610.00	92.6 AV			1.06 V	75	88.1	4.5
6	#5725.00	63.9 PK	68.2	-4.3	1.06 V	75	59.2	4.7
7	11220.00	48.2 PK	74.0	-25.8	1.53 V	166	33.8	14.4
8	11220.00	36.3 AV	54.0	-17.7	1.53 V	166	21.9	14.4
9	#16830.00	51.1 PK	68.2	-17.1	1.87 V	235	33.8	17.3

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ac (VHT80)	Channel	CH 138：5690 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	52.2 PK	74.0	-21.8	2.63 H	9	47.8	4.4
2	5460.00	41.0 AV	54.0	-13.0	2.63 H	9	36.6	4.4
3	#5470.00	52.0 PK	68.2	-16.2	2.63 H	9	47.5	4.5
4	*5690.00	107.6 PK			2.63 H	9	103.1	4.5
5	*5690.00	98.0 AV			2.63 H	9	93.5	4.5
6	#5850.00	52.0 PK	68.2	-16.2	2.63 H	9	47.0	5.0
7	11380.00	47.6 PK	74.0	-26.4	2.11 H	258	33.1	14.5
8	11380.00	36.6 AV	54.0	-17.4	2.11 H	258	22.1	14.5
9	#17070.00	52.9 PK	68.2	-15.3	1.37 H	305	35.0	17.9
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	50.5 PK	74.0	-23.5	2.18 V	15	46.1	4.4
2	5460.00	39.5 AV	54.0	-14.5	2.18 V	15	35.1	4.4
3	#5470.00	51.5 PK	68.2	-16.7	2.18 V	15	47.0	4.5
4	*5690.00	103.9 PK			2.18 V	15	99.4	4.5
5	*5690.00	95.6 AV			2.18 V	15	91.1	4.5
6	#5850.00	61.9 PK	68.2	-6.3	2.18 V	15	56.9	5.0
7	11380.00	47.4 PK	74.0	-26.6	1.60 V	184	32.9	14.5
8	11380.00	35.7 AV	54.0	-18.3	1.60 V	184	21.2	14.5
9	#17070.00	50.5 PK	68.2	-17.7	1.90 V	256	32.6	17.9

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ac (VHT80)	Channel	CH 155：5775 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5649.55	63.7 PK	68.2	-4.5	2.63 H	16	59.2	4.5
2	*5775.00	107.5 PK			2.63 H	16	102.4	5.1
3	*5775.00	97.8 AV			2.63 H	16	92.7	5.1
4	#5941.33	63.2 PK	68.2	-5.0	2.63 H	16	58.1	5.1
5	11550.00	47.5 PK	74.0	-26.5	2.12 H	278	32.9	14.6
6	11550.00	36.5 AV	54.0	-17.5	2.12 H	278	21.9	14.6
7	#17325.00	52.7 PK	68.2	-15.5	1.35 H	314	34.6	18.1
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5642.21	62.8 PK	68.2	-5.4	2.25 V	12	58.3	4.5
2	*5775.00	104.5 PK			2.25 V	12	99.4	5.1
3	*5775.00	95.4 AV			2.25 V	12	90.3	5.1
4	#5923.16	62.2 PK	69.6	-7.4	2.25 V	12	57.1	5.1
5	11550.00	47.9 PK	74.0	-26.1	1.58 V	185	33.3	14.6
6	11550.00	36.1 AV	54.0	-17.9	1.58 V	185	21.5	14.6
7	#17325.00	51.1 PK	68.2	-17.1	1.92 V	260	33.0	18.1

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

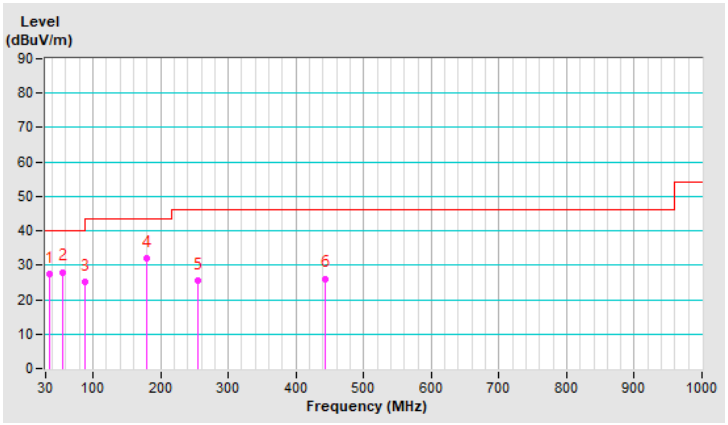
Below 1GHz Data:

RF Mode	TX 802.11a	Channel	CH 116：5580 MHz
Frequency Range	30MHz ~ 1GHz	Detector Function	Quasi-Peak (QP)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	35.73	27.6 QP	40.0	-12.4	2.00 H	142	36.7	-9.1
2	55.68	28.0 QP	40.0	-12.0	2.00 H	214	36.3	-8.3
3	88.39	25.3 QP	43.5	-18.2	2.00 H	276	39.1	-13.8
4	179.67	32.1 QP	43.5	-11.4	1.50 H	59	41.2	-9.1
5	254.67	25.4 QP	46.0	-20.6	1.00 H	119	33.9	-8.5
6	443.63	26.1 QP	46.0	-19.9	1.50 H	26	28.3	-2.2

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30MHz~1000MHz.
5. The emission levels were very low against the limit of frequency range 9kHz~30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

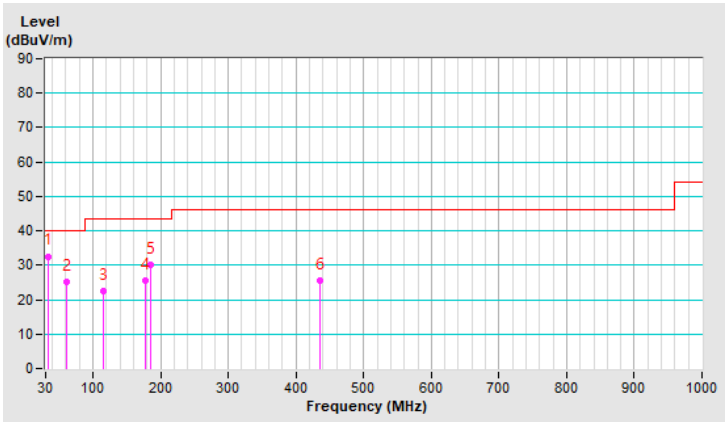


RF Mode	TX 802.11a	Channel	CH 116：5580 MHz
Frequency Range	30MHz ~ 1GHz	Detector Function	Quasi-Peak (QP)

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	33.17	32.6 QP	40.0	-7.4	1.50 V	351	42.0	-9.4
2	60.45	25.2 QP	40.0	-14.8	1.00 V	141	34.0	-8.8
3	115.02	22.4 QP	43.5	-21.1	1.50 V	357	32.7	-10.3
4	176.69	25.5 QP	43.5	-18.0	1.00 V	349	34.4	-8.9
5	186.05	30.2 QP	43.5	-13.3	1.00 V	134	40.0	-9.8
6	435.31	25.6 QP	46.0	-20.4	2.00 V	344	28.0	-2.4

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30MHz~1000MHz.
5. The emission levels were very low against the limit of frequency range 9kHz~30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.



4.2 Conducted Emission Measurement

4.2.1 Limits of Conducted Emission Measurement

Frequency (MHz)	Conducted Limit (dBuV)	
	Quasi-peak	Average
0.15 - 0.5	66 - 56	56 - 46
0.50 - 5.0	56	46
5.0 - 30.0	60	50

Note: 1. The lower limit shall apply at the transition frequencies.
2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

4.2.2 Test Instruments

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
Test Receiver R&S	ESCS 30	847124/029	Oct. 20, 2020	Oct. 19, 2021
Line-Impedance Stabilization Network (for EUT) R&S	ESH3-Z5	848773/004	Oct. 27, 2020	Oct. 26, 2021
Line-Impedance Stabilization Network (for Peripheral) R&S	ESH3-Z5	835239/001	Mar. 26, 2021	Mar. 25, 2022
50 ohms Terminator	50	3	Oct. 26, 2020	Oct. 25, 2021
RF Cable	5D-FB	COCCAB-001	Sep. 26, 2020	Sep. 25, 2021
Fixed attenuator EMCI	STI02-2200-10	005	Aug. 29, 2020	Aug. 28, 2021
Software BVADT	BVADT_Cond_ V7.3.7.4	NA	NA	NA

Note:
1. The calibration interval of the above test instruments are 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. The test was performed in Conduction 1.
3 Tested Date: July 03, 2021

4.2.3 Test Procedure

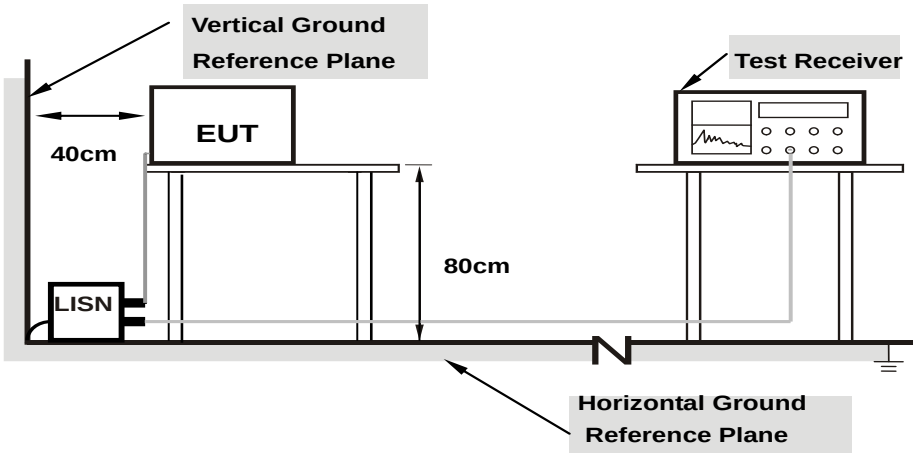
a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.
b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
c. The frequency range from 150kHz to 30MHz was searched. Emission levels under (Limit - 20dB) was not recorded.

Note: All modes of operation were investigated and the worst-case emissions are reported.

4.2.4 Deviation from Test Standard

No deviation.

4.2.5 Test Setup



Note: 1.Support units were connected to second LISN.

For the actual test configuration, please refer to the attached file (Test Setup Photo).

4.2.6 EUT Operating Condition

Same as 4.1.6.

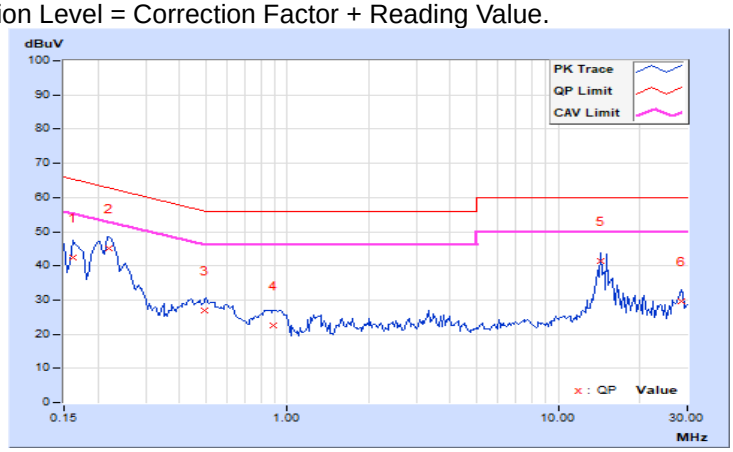
4.2.7 Test Results

RF Mode	TX 802.11a	Channel	CH 116：5580 MHz
Frequency Range	150kHz ~ 30MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9kHz

Phase Of Power : Line (L)										
No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.16172	9.95	32.44	18.63	42.39	28.58	65.38	55.38	-22.99	-26.80
2	0.22031	9.97	35.06	26.37	45.03	36.34	62.81	52.81	-17.78	-16.47
3	0.49766	10.00	16.77	10.72	26.77	20.72	56.04	46.04	-29.27	-25.32
4	0.89219	10.02	12.69	2.49	22.71	12.51	56.00	46.00	-33.29	-33.49
5	14.33203	10.79	30.68	28.89	41.47	39.68	60.00	50.00	-18.53	-10.32
6	28.41406	11.28	18.34	15.12	29.62	26.40	60.00	50.00	-30.38	-23.60

REMARKS:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value.

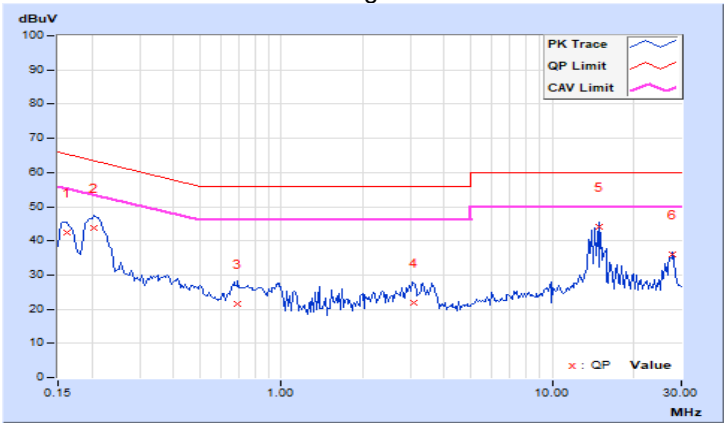


RF Mode	TX 802.11a	Channel	CH 116：5580 MHz
Frequency Range	150kHz ~ 30MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9kHz

Phase Of Power : Neutral (N)										
No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.16172	9.93	32.34	21.17	42.27	31.10	65.38	55.38	-23.11	-24.28
2	0.20469	9.95	33.77	19.58	43.72	29.53	63.42	53.42	-19.70	-23.89
3	0.68906	9.98	11.66	0.82	21.64	10.80	56.00	46.00	-34.36	-35.20
4	3.06641	10.08	11.72	2.56	21.80	12.64	56.00	46.00	-34.20	-33.36
5	**14.83594**	**10.63**	**33.42**	**31.33**	**44.05**	**41.96**	**60.00**	**50.00**	**-15.95**	**-8.04**
6	27.91406	10.91	24.95	22.98	35.86	33.89	60.00	50.00	-24.14	-16.11

REMARKS:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value.



4.3 Transmit Power Measurement

4.3.1 Limits of Transmit Power Measurement

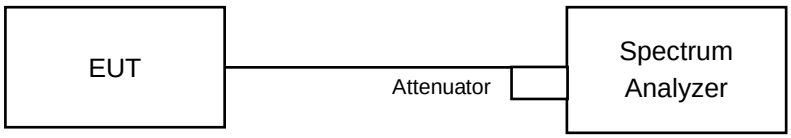
Operation Band	EUT Category		Limit
U-NII-1		Outdoor Access Point	1 Watt (30 dBm) (Max. e.i.r.p ≦ 125mW(21 dBm) at any elevation angle above 30 degrees as measured from the horizon)
		Fixed point-to-point Access Point	1 Watt (30 dBm)
		Indoor Access Point	1 Watt (30 dBm)
	√	Client device	250mW (24 dBm)
U-NII-2A	√		250mW (24 dBm) or 11 dBm+10 log B*
U-NII-2C	√		250mW (24 dBm) or 11 dBm+10 log B*
U-NII-3	√		1 Watt (30 dBm)

*B is the 26 dB emission bandwidth in megahertz

4.3.2 Test Setup

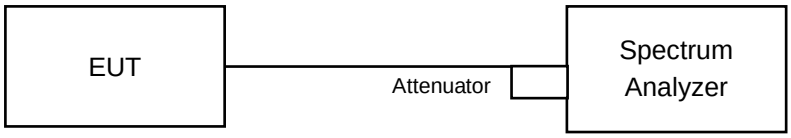
FOR POWER OUTPUT MEASUREMENT

For channel straddling 5725MHz:



For other channels:

FOR 26dB OCCUPIED BANDWIDTH



4.3.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.3.4 Test Procedure

FOR POWER OUTPUT MEASUREMENT

For channel straddling 5725MHz:

Follow FCC KDB 789033 UNII test procedure:
Method SA-2

1. Set span to encompass the emission bandwidth (EBW) of the signal.
2. Set RBW =1MHz.
3. Set the VBW ≥ 3 x RBW.
4. Number of points in sweep ≥ 2 Span / RBW.
5. Sweep time = auto.
6. Detector = RMS.
7. Trace average at least 100 traces in power averaging mode
8. Compute power by integrating the spectrum across the 26 dB EBW of the signal.
9. Duty factor need added to measured value (duty cycle < 98 percent).

For other channels:

Method PM is used to perform output power measurement, trigger and gating function of wide band power meter is enabled to measure max output power of TX on burst. Duty factor is not added to measured value.

FOR 26dB OCCUPIED BANDWIDTH

1. Set RBW = approximately 1% of the emission bandwidth.
2. Set the VBW > RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

4.3.5 Deviation from Test Standard

No deviation.

4.3.6 EUT Operating Condition

The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.

4.3.7 Test Results

Power Output:

802.11a

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Limit (dBm)	Pass / Fail
36	5180	68.549	18.36	24	Pass
40	5200	85.704	19.33	24	Pass
48	5240	86.298	19.36	24	Pass
52	5260	86.696	19.38	24	Pass
60	5300	90.365	19.56	24	Pass
64	5320	50.933	17.07	24	Pass
100	5500	41.783	16.21	24	Pass
116	5580	94.406	19.75	24	Pass
140	5700	24.434	13.88	24	Pass
*144 (U-NII-2C Band)	5720	66.127	18.20	24	Pass
*144 (U-NII-3 Band)	5720	6.908	8.39	30	Pass
149	5745	86.497	19.37	30	Pass
157	5785	85.31	19.31	30	Pass
165	5825	83.368	19.21	30	Pass

Note: * Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2 and use spectrum analyzer test. The duty factor was included in the total power.

Determined Power Limit			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)
52	5260	37.93	26.78 > 24
60	5300	37.93	26.78 > 24
64	5320	21.38	24.3 > 24
100	5500	20.37	24.08 > 24
116	5580	37.44	26.73 > 24
140	5700	20.29	24.07 > 24
144 (U-NII-2C Band)	5720	20.86	24.19 > 24

Note: For U-NII-2A U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.

802.11ac (VHT20)

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Limit (dBm)	Pass / Fail
36	5180	45.92	16.62	24	Pass
40	5200	80.91	19.08	24	Pass
48	5240	74.302	18.71	24	Pass
52	5260	68.391	18.35	24	Pass
60	5300	69.183	18.40	24	Pass
64	5320	51.168	17.09	24	Pass
100	5500	40.272	16.05	24	Pass
116	5580	72.946	18.63	24	Pass
140	5700	23.659	13.74	24	Pass
*144 (U-NII-2C Band)	5720	53.988	17.32	23.93	Pass
*144 (U-NII-3 Band)	5720	6.387	8.05	30	Pass
149	5745	93.111	19.69	30	Pass
157	5785	90.365	19.56	30	Pass
165	5825	89.331	19.51	30	Pass

Note: * Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2 and use spectrum analyzer test. The duty factor was included in the total power.

Determined Power Limit			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)
52	5260	29.47	25.69 > 24
60	5300	29.18	25.65 > 24
64	5320	24.83	24.94 > 24
100	5500	21.51	24.32 > 24
116	5580	37.5	26.74 > 24
140	5700	20.67	24.15 > 24
144 (U-NII-2C Band)	5720	19.65	23.93 < 24

Note: For U-NII-2A U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.

802.11ac (VHT40)

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Limit (dBm)	Pass / Fail
38	5190	30.479	14.84	24	Pass
46	5230	69.984	18.45	24	Pass
54	5270	70.958	18.51	24	Pass
62	5310	31.842	15.03	24	Pass
102	5510	22.029	13.43	24	Pass
110	5550	73.961	18.69	24	Pass
134	5670	27.416	14.38	24	Pass
*142 (U-NII-2C Band)	5710	54.509	17.36	24	Pass
*142 (U-NII-3 Band)	5710	2.053	3.12	30	Pass
151	5755	95.719	19.81	30	Pass
159	5795	94.189	19.74	30	Pass

Note: * Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2 and use spectrum analyzer test. The duty factor was included in the total power.

Determined Power Limit			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)
54	5270	62.7	28.97 > 24
62	5310	41.86	27.21 > 24
102	5510	41.76	27.2 > 24
110	5550	77.01	29.86 > 24
134	5670	41.99	27.23 > 24
142 (U-NII-2C Band)	5710	43.08	27.34 > 24

Note: For U-NII-2A U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.

802.11ac (VHT80)

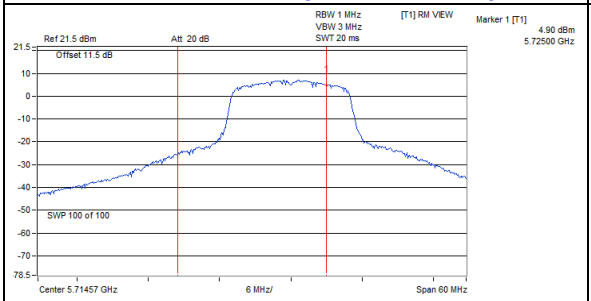
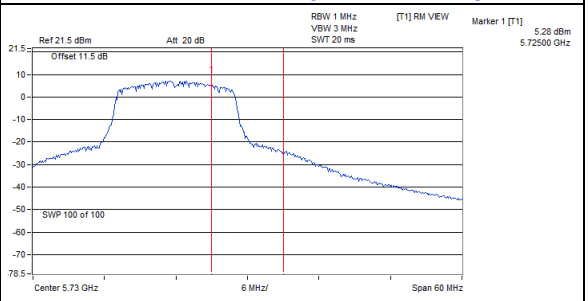
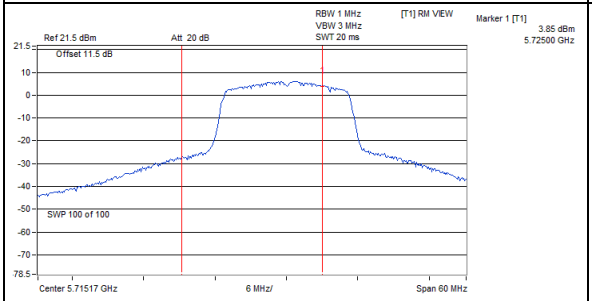
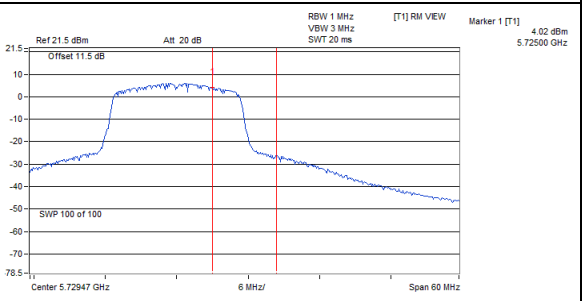
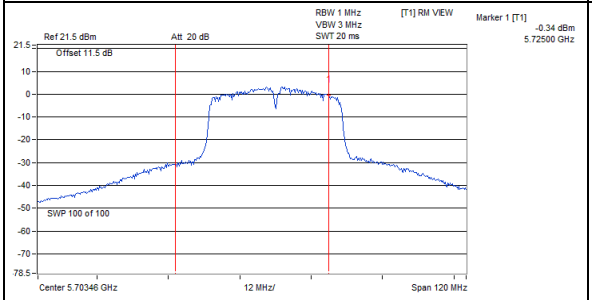
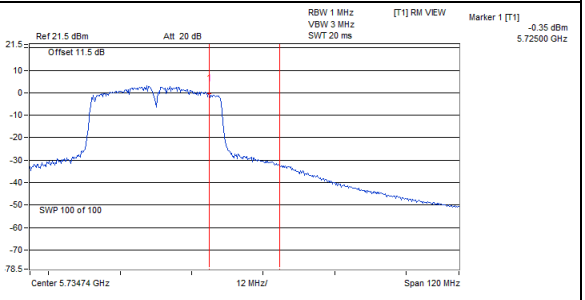
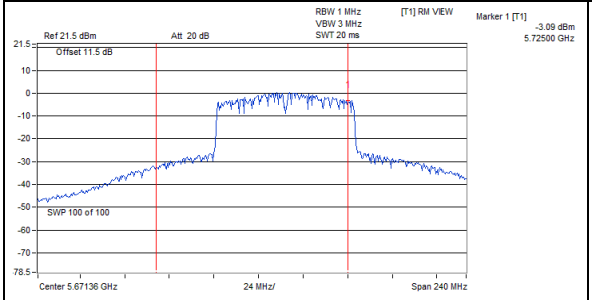
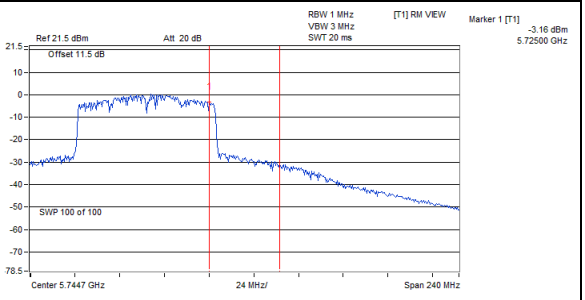
Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Limit (dBm)	Pass / Fail
42	5210	21.429	13.31	24	Pass
58	5290	19.231	12.84	24	Pass
106	5530	20.654	13.15	24	Pass
122	5610	48.529	16.86	24	Pass
*138 (U-NII-2C Band)	5690	72.259	18.59	24	Pass
*138 (U-NII-3 Band)	5690	1.194	0.77	30	Pass
155	5775	93.541	19.71	30	Pass

Note: * Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2 and use spectrum analyzer test. The duty factor was included in the total power.

Determined Power Limit			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)
58	5290	81.53	30.11 > 24
106	5530	82.03	30.13 > 24
122	5610	82.54	30.16 > 24
138 (U-NII-2C Band)	5690	107.27	31.3 > 24

Note: For U-NII-2A U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.

For channel straddling 5725MHz of Power

Spectrum Plot Value of Power	
802.11a / CH144 (U-NII-2C Band)	**802.11a / CH144 (U-NII-3 Band)**
 TX Channel Bandwidth 20.86 MHz Power 18.1 dBm	 TX Channel Bandwidth 10.01 MHz Power 8.29 dBm
802.11ac (VHT20) / CH144 (U-NII-2C Band)	**802.11ac (VHT20) / CH144 (U-NII-3 Band)**
 TX Channel Bandwidth 19.65 MHz Power 17.23 dBm	 TX Channel Bandwidth 8.95 MHz Power 7.96 dBm
802.11ac (VHT40) / CH142 (U-NII-2C Band)	**802.11ac (VHT40) / CH142 (U-NII-3 Band)**
 TX Channel Bandwidth 43.08 MHz Power 17.27 dBm	 TX Channel Bandwidth 19.48 MHz Power 3.03 dBm
802.11ac (VHT80) / CH138 (U-NII-2C Band)	**802.11ac (VHT80) / CH138 (U-NII-3 Band)**
 TX Channel Bandwidth 107.27 MHz Power 18.39 dBm	 TX Channel Bandwidth 39.41 MHz Power 0.57 dBm

26dB Bandwidth:

802.11a

Channel	Frequency (MHz)	26dB Bandwidth (MHz)
52	5260	37.93
60	5300	37.93
64	5320	21.38
100	5500	20.37
116	5580	37.44
140	5700	20.29
144 (U-NII-2C Band)	5720	20.86

802.11ac (VHT20)

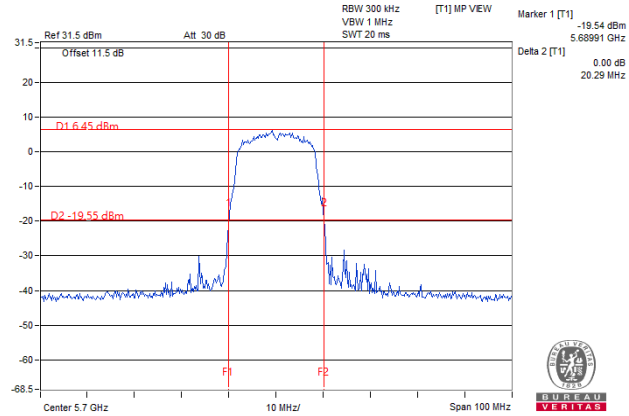
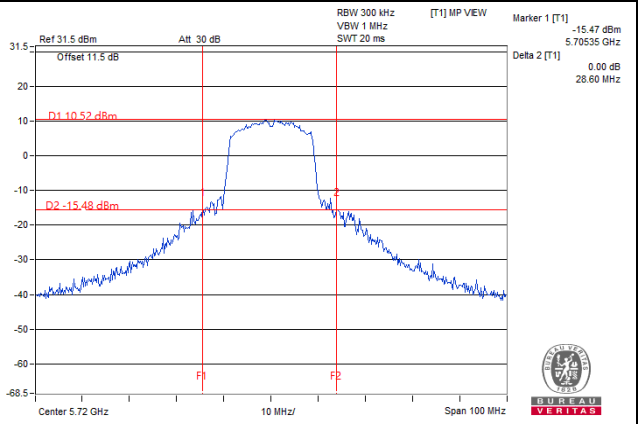
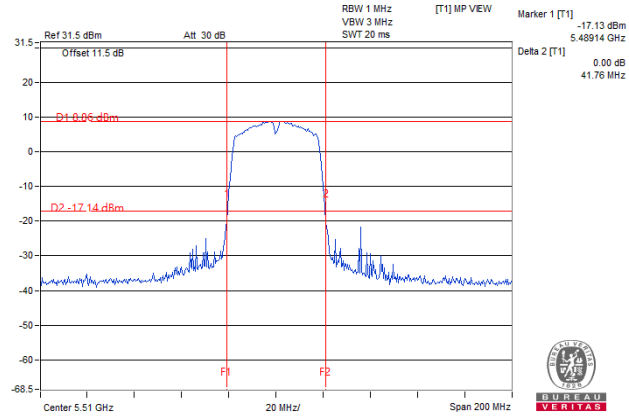
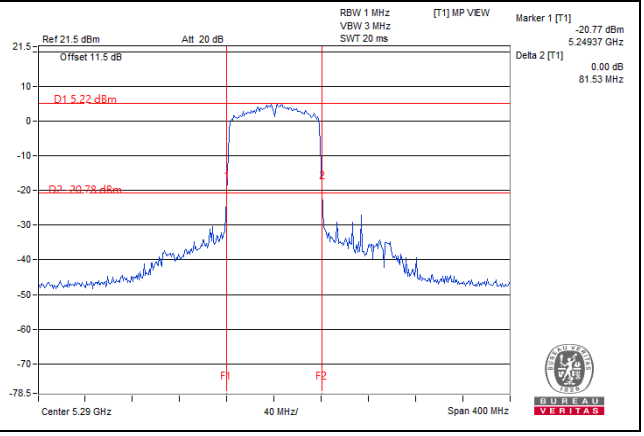
Channel	Frequency (MHz)	26dB Bandwidth (MHz)
52	5260	29.47
60	5300	29.18
64	5320	24.83
100	5500	21.51
116	5580	37.5
140	5700	20.67
144 (U-NII-2C Band)	5720	19.65

802.11ac (VHT40)

Channel	Frequency (MHz)	26dB Bandwidth (MHz)
54	5270	62.7
62	5310	41.86
102	5510	41.76
110	5550	77.01
134	5670	41.99
142 (U-NII-2C Band)	5710	43.08

802.11ac (VHT80)

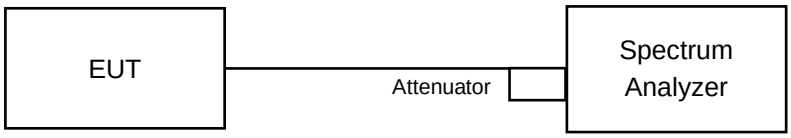
Channel	Frequency (MHz)	26dB Bandwidth (MHz)
58	5290	81.53
106	5530	82.03
122	5610	82.54
138 (U-NII-2C Band)	5690	107.27

Spectrum Plot of Worst Value	
802.11a / CH140	**802.11ac (VHT20) / CH144 (U-NII-2C Band)**
	
802.11ac (VHT40) / CH102	**802.11ac (VHT80) / CH58**
	

Note: For CH144 (U-NII-2C) = 5725MHz - Marker 1

4.4 Occupied Bandwidth Measurement

4.4.1 Test Setup



4.4.2 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.4.3 Test Procedure

The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with resolution bandwidth in the range of 1% to 5% of the anticipated emission bandwidth, and a video bandwidth at least 3x the resolution bandwidth and set the detector to SAMPLE. The width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5% of the total mean power of a given emission.

4.4.4 Test Results

802.11a

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
36	5180	16.8
40	5200	16.92
48	5240	17.04
52	5260	16.92
60	5300	16.92
64	5320	16.68
100	5500	16.56
116	5580	16.92
140	5700	16.56
144 (U-NII-2C Band)	5720	13.52
144 (U-NII-3 Band)	5720	3.4
149	5745	16.92
157	5785	16.92
165	5825	16.92

802.11ac (VHT20)

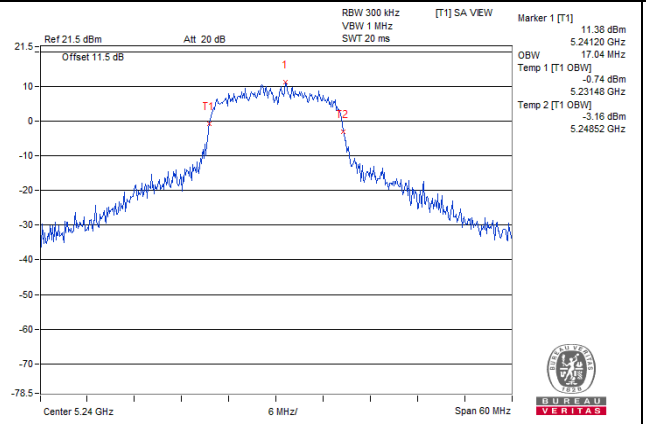
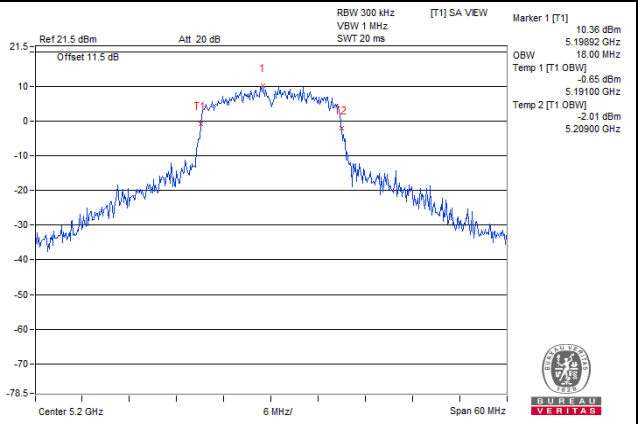
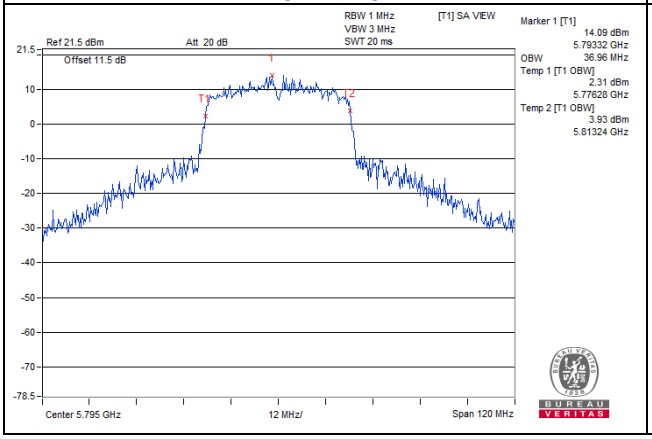
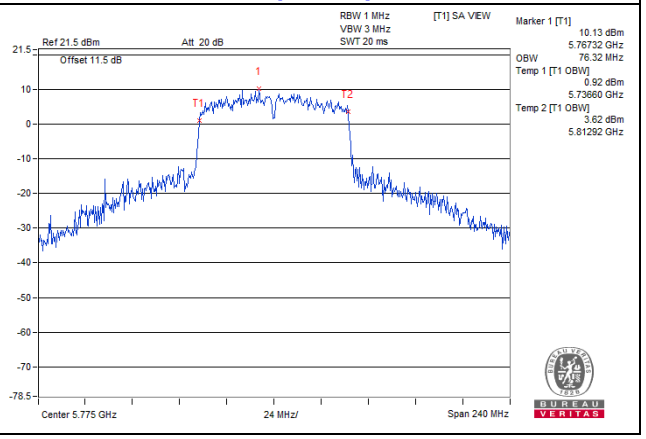
Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
36	5180	17.76
40	5200	18
48	5240	17.88
52	5260	17.76
60	5300	17.76
64	5320	17.64
100	5500	17.64
116	5580	17.76
140	5700	17.64
144 (U-NII-2C Band)	5720	14
144 (U-NII-3 Band)	5720	3.88
149	5745	18
157	5785	18
165	5825	18

802.11ac (VHT40)

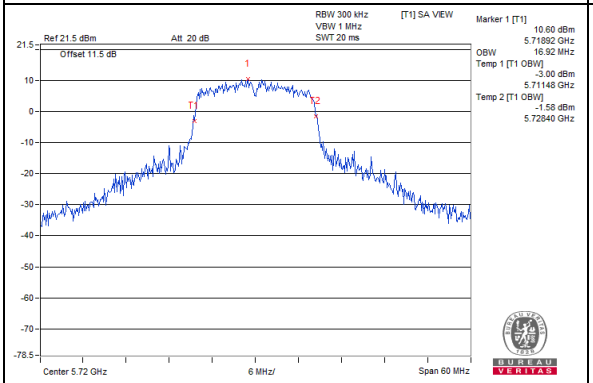
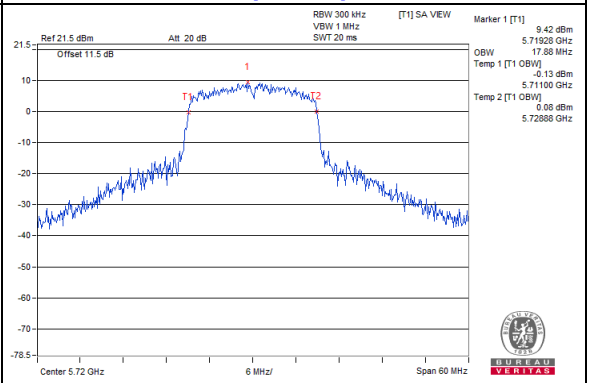
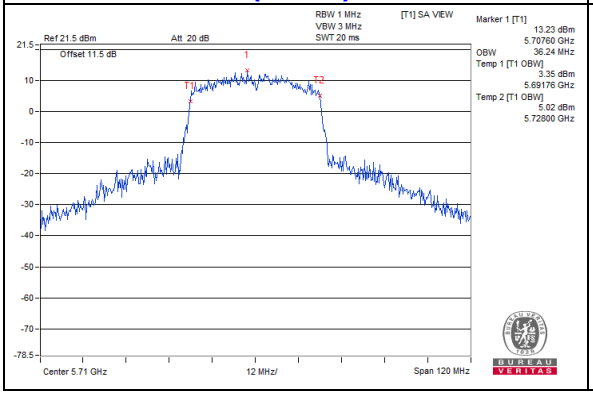
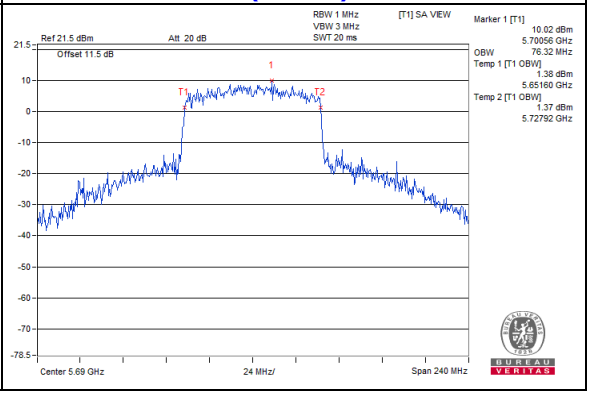
Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
38	5190	36.24
46	5230	36.48
54	5270	36.48
62	5310	36.24
102	5510	36.24
110	5550	36.48
134	5670	36.24
142 (U-NII-2C Band)	5710	33.24
142 (U-NII-3 Band)	5710	3
151	5755	36.72
159	5795	36.96

802.11ac (VHT80)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
42	5210	74.88
58	5290	75.36
106	5530	75.36
122	5610	75.84
138 (U-NII-2C Band)	5690	73.4
138 (U-NII-3 Band)	5690	2.92
155	5775	76.32

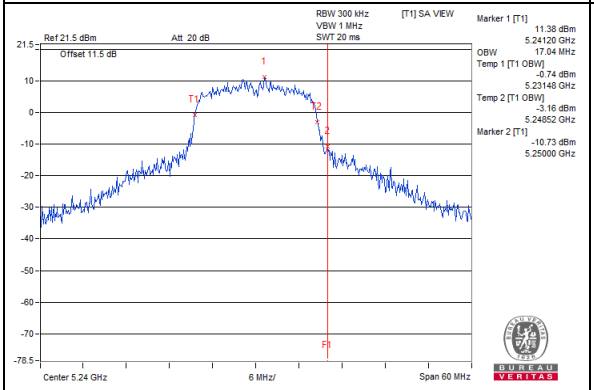
Spectrum Plot of Max. Value	
802.11a / CH48	**802.11ac (VHT20) / CH40**
	
802.11ac (VHT40) / CH159	**802.11ac (VHT80) / CH155**
	

For channel straddling 5725MHz of OCP99% BW

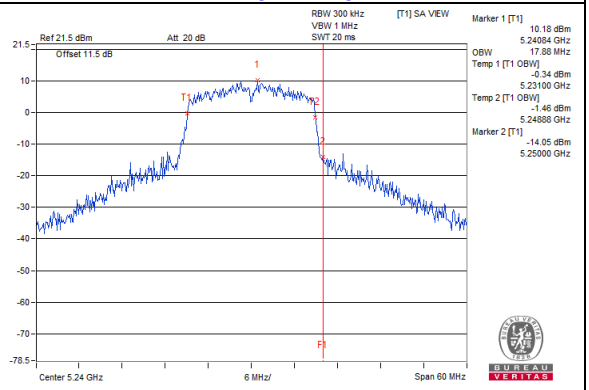
Spectrum Plot Value of OCP99% BW	
802.11a / CH144	**802.11ac (VHT20) / CH144**
	
802.11ac (VHT40) / CH142	**802.11ac (VHT80) / CH138**
	

Spectrum Plot for near by DFS band
(DFS is required, if 99% OCP straddle into U-NII-2A band)

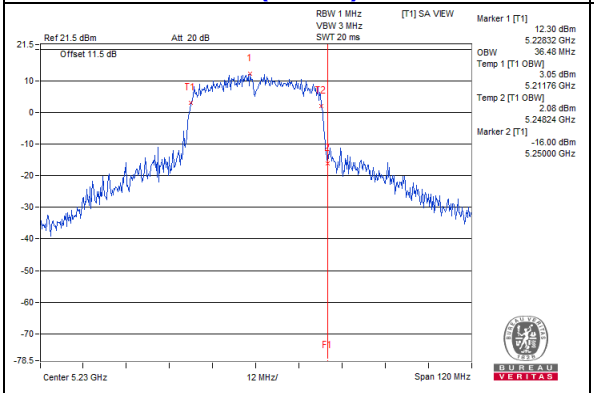
802.11a / CH48



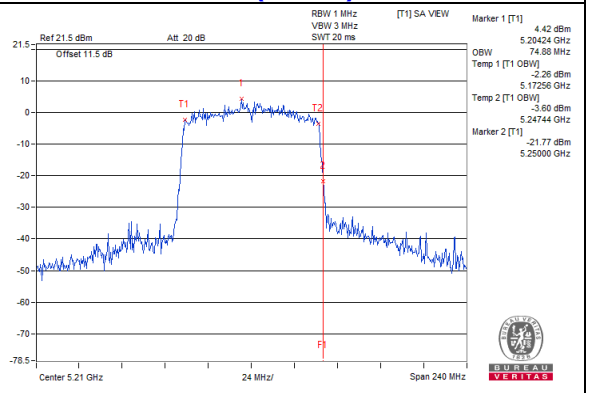
802.11ac (VHT20) / CH48



802.11ac (VHT40) / CH46

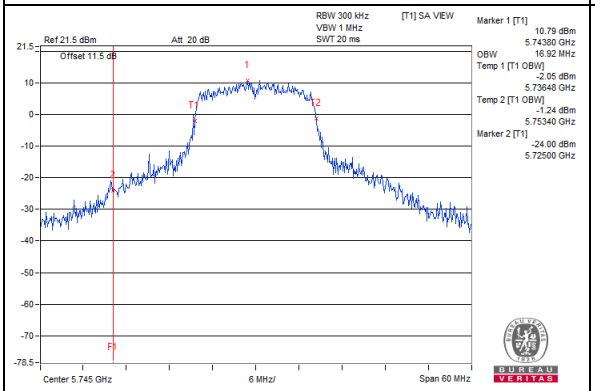


802.11ac (VHT80) / CH42

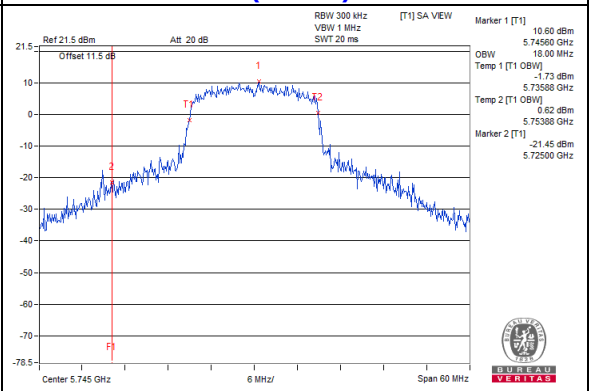


Spectrum Plot for near by DFS band
(DFS is required, if 99% OCP straddle into U-NII-2C band)

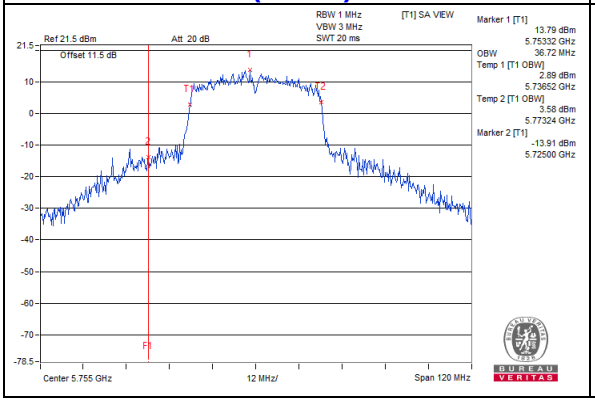
802.11a / CH149



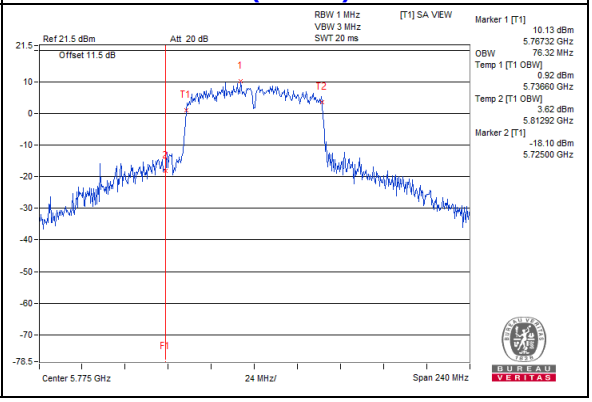
802.11ac (VHT20) / CH149



802.11ac (VHT40) / CH151



802.11ac (VHT80) / CH155

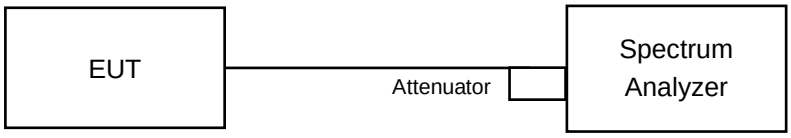


4.5 Peak Power Spectral Density Measurement

4.5.1 Limits of Peak Power Spectral Density Measurement

Operation Band	EUT Category		Limit
U-NII-1		Outdoor Access Point	17dBm/ MHz
		Fixed point-to-point Access Point	
		Indoor Access Point	
	√	Client device	11dBm/ MHz
U-NII-2A	√		11dBm/ MHz
U-NII-2C	√		11dBm/ MHz
U-NII-3	√		30dBm/ 500kHz

4.5.2 Test Setup



4.5.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.5.4 Test Procedure

For U-NII-1, U-NII-2A, U-NII-2C band:

Using method SA-2

1. Set span to encompass the entire emission bandwidth (EBW) of the signal.
2. Set RBW = 1 MHz, Set VBW ≥ 3 MHz, Detector = RMS
3. Sweep time = auto, trigger set to “free run”.
4. Trace average at least 100 traces in power averaging mode.
5. Record the max value and add 10 log (1/duty cycle)

For U-NII-3 band:

1. Set span to encompass the entire emission bandwidth (EBW) of the signal.
2. Set RBW = 300 kHz, Set VBW ≥ 1 MHz, Detector = RMS
3. Use the peak marker function to determine the maximum power level in any 300 kHz band segment within the fundamental EBW.
4. Scale the observed power level to an equivalent value in 500 kHz by adjusting (increasing) the measured power by a bandwidth correction factor (BWCF) where BWCF = 10log(500kHz/300kHz)
5. Sweep time = auto, trigger set to “free run”.
6. Trace average at least 100 traces in power averaging mode.
7. Record the max value and add 10 log (1/duty cycle)

4.5.5 Deviation from Test Standard

No deviation.

4.5.6 EUT Operating Condition

Same as Item 4.3.6.

4.5.7 Test Results

For U-NII-1, U-NII-2A, U-NII-2C band:

802.11a

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)	Duty Factor (dB)	Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Pass / Fail
36	5180	4.99	0.10	5.09	11.00	Pass
40	5200	6.10	0.10	6.20	11.00	Pass
48	5240	6.47	0.10	6.57	11.00	Pass
52	5260	6.64	0.10	6.74	11.00	Pass
60	5300	7.06	0.10	7.16	11.00	Pass
64	5320	4.96	0.10	5.06	11.00	Pass
100	5500	4.30	0.10	4.40	11.00	Pass
116	5580	7.76	0.10	7.86	11.00	Pass
140	5700	1.17	0.10	1.27	11.00	Pass
144 (U-NII-2C Band)	5720	7.05	0.10	7.15	11.00	Pass

Note: Refer to section 3.3 for duty cycle spectrum plot.

802.11ac (VHT20)

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)	Duty Factor (dB)	Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Pass / Fail
36	5180	3.49	0.09	3.58	11.00	Pass
40	5200	6.09	0.09	6.18	11.00	Pass
48	5240	6.09	0.09	6.18	11.00	Pass
52	5260	5.94	0.09	6.03	11.00	Pass
60	5300	6.12	0.09	6.21	11.00	Pass
64	5320	4.61	0.09	4.70	11.00	Pass
100	5500	4.09	0.09	4.18	11.00	Pass
116	5580	6.77	0.09	6.86	11.00	Pass
140	5700	0.88	0.09	0.97	11.00	Pass
144 (U-NII-2C Band)	5720	5.97	0.09	6.06	11.00	Pass

Note: Refer to section 3.3 for duty cycle spectrum plot.

802.11ac (VHT40)

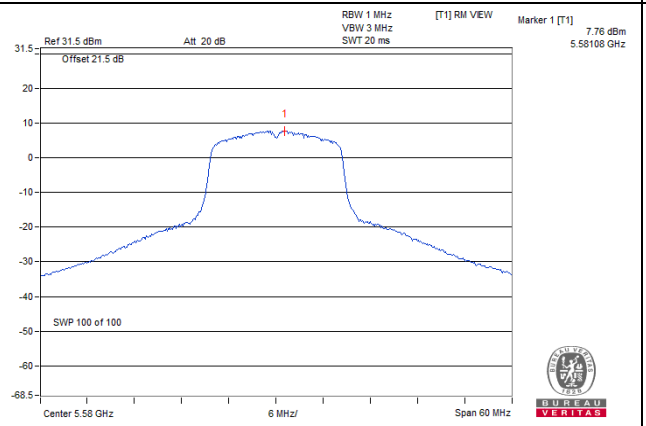
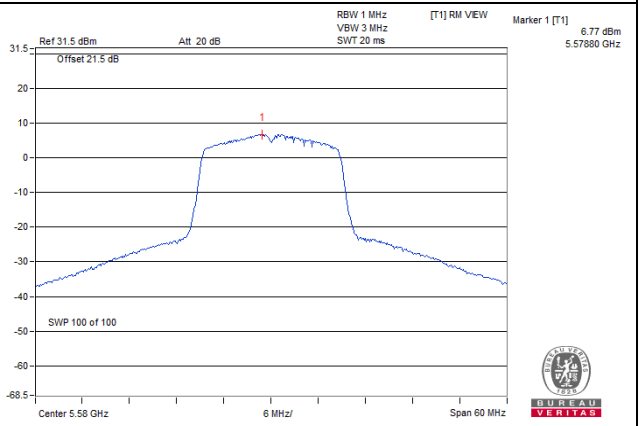
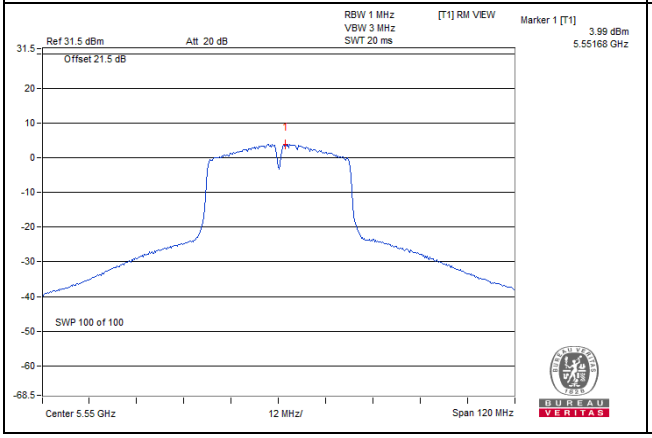
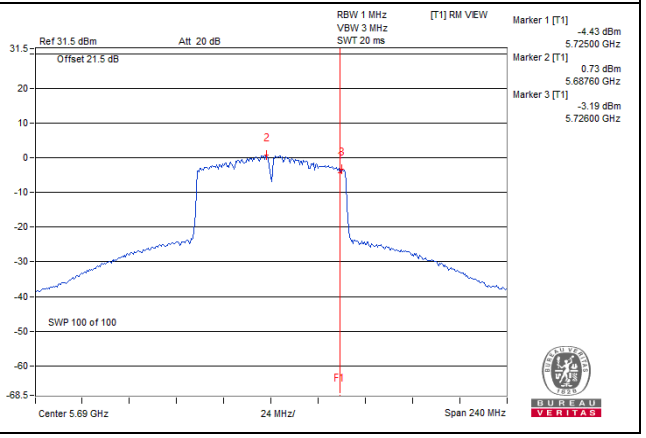
Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)	Duty Factor (dB)	Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Pass / Fail
38	5190	-1.34	0.09	-1.25	11.00	Pass
46	5230	2.75	0.09	2.84	11.00	Pass
54	5270	2.97	0.09	3.06	11.00	Pass
62	5310	-0.34	0.09	-0.25	11.00	Pass
102	5510	-1.51	0.09	-1.42	11.00	Pass
110	5550	3.99	0.09	4.08	11.00	Pass
134	5670	-1.34	0.09	-1.25	11.00	Pass
142 (U-NII-2C Band)	5710	2.97	0.09	3.06	11.00	Pass

Note: Refer to section 3.3 for duty cycle spectrum plot.

802.11ac (VHT80)

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)	Duty Factor (dB)	Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Pass / Fail
42	5210	-5.92	0.20	-5.72	11.00	Pass
58	5290	-5.94	0.20	-5.74	11.00	Pass
106	5530	-5.10	0.20	-4.90	11.00	Pass
122	5610	-1.29	0.20	-1.09	11.00	Pass
138 (U-NII-2C Band)	5690	0.73	0.20	0.93	11.00	Pass

Note: Refer to section 3.3 for duty cycle spectrum plot.

Spectrum Plot of Worst Value	
802.11a / CH116	**802.11ac (VHT20) / CH116**
	
802.11ac (VHT40) / CH110	**802.11ac (VHT80) / CH138 (U-NII-2C Band)**
	

For U-NII-3 band:

802.11a

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/300kHz)	Duty Factor (dB)	Total PSD (dBm/300kHz)	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Pass / Fail
144 (U-NII-3 Band)	5720	-2.98	0.10	-2.88	-0.66	30.00	Pass
149	5745	-0.83	0.10	-0.73	1.49	30.00	Pass
157	5785	-1.21	0.10	-1.11	1.11	30.00	Pass
165	5825	-0.82	0.10	-0.72	1.50	30.00	Pass

Note: Refer to section 3.3 for duty cycle spectrum plot.

802.11ac (VHT20)

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/300kHz)	Duty Factor (dB)	Total PSD (dBm/300kHz)	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Pass / Fail
144 (U-NII-3 Band)	5720	-4.25	0.09	-4.16	-1.94	30.00	Pass
149	5745	-1.50	0.09	-1.41	0.81	30.00	Pass
157	5785	-1.62	0.09	-1.53	0.69	30.00	Pass
165	5825	-1.54	0.09	-1.45	0.77	30.00	Pass

Note: Refer to section 3.3 for duty cycle spectrum plot.

802.11ac (VHT40)

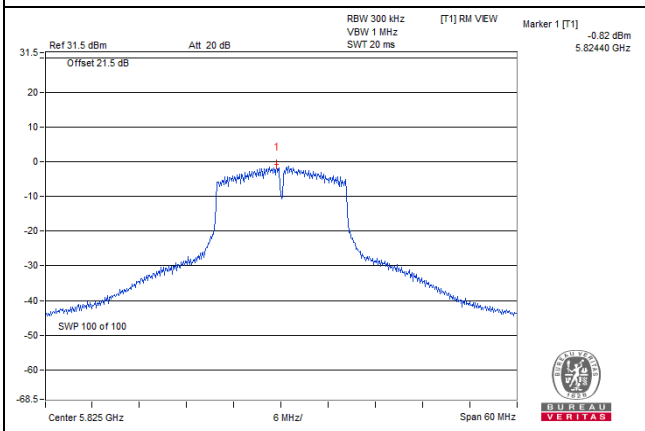
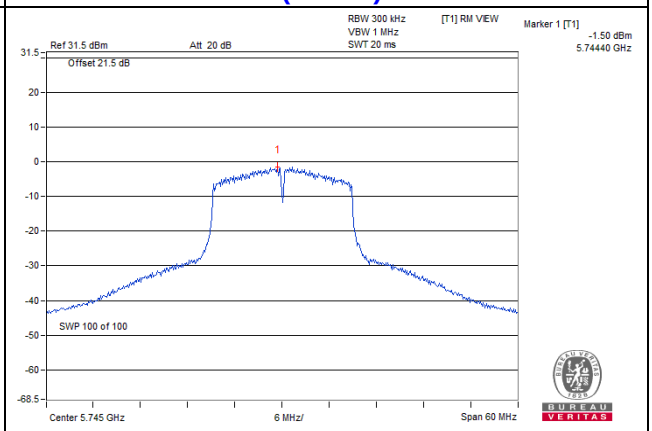
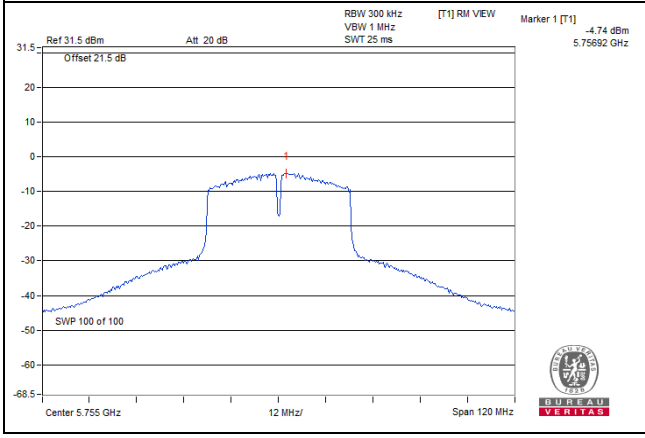
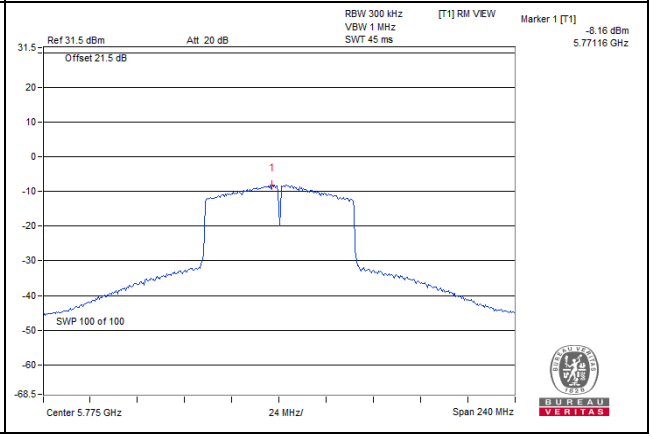
Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/300kHz)	Duty Factor (dB)	Total PSD (dBm/300kHz)	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Pass / Fail
142 (U-NII-3 Band)	5710	-9.26	0.09	-9.16	-6.94	30.00	Pass
151	5755	-4.74	0.09	-4.65	-2.43	30.00	Pass
159	5795	-4.82	0.09	-4.72	-2.50	30.00	Pass

Note: Refer to section 3.3 for duty cycle spectrum plot.

802.11ac (VHT80)

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/300kHz)	Duty Factor (dB)	Total PSD (dBm/300kHz)	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Pass / Fail
138 (U-NII-3 Band)	5690	-11.93	0.20	-11.73	-9.51	30.00	Pass
155	5775	-8.16	0.20	-7.96	-5.74	30.00	Pass

Note: Refer to section 3.3 for duty cycle spectrum plot.

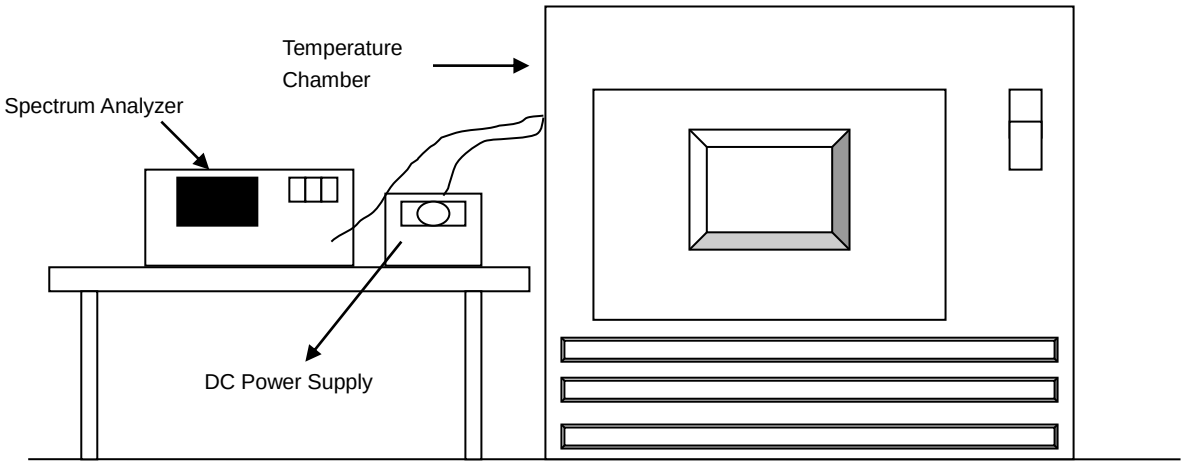
Spectrum Plot of Worst Value	
802.11a / CH165	**802.11ac (VHT20) / CH149**
	
802.11ac (VHT40) / CH151	**802.11ac (VHT80) / CH155**
	

4.6 Frequency Stability Measurement

4.6.1 Limits of Frequency Stability Measurement

The frequency of the carrier signal shall be maintained within band of operation

4.6.2 Test Setup



4.6.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.6.4 Test Procedure

a. The EUT was placed inside the environmental test chamber and powered by nominal DC voltage.
b. Turn the EUT on and couple its output to a spectrum analyzer.
c. Turn the EUT off and set the chamber to the highest temperature specified.
d. Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize, turn the EUT on and measure the operating frequency after 2, 5, and 10 Minutes.
e. Repeat step (d) with the temperature chamber set to the next desired temperature until measurements down to the lowest specified temperature have been completed.
f. The test chamber was allowed to stabilize at +20 degree C for a minimum of 30 Minutes. The supply voltage was then adjusted on the EUT from 85% to 115% and the frequency record.

4.6.5 Deviation from Test Standard

No deviation.

4.6.6 EUT Operating Condition

Set the EUT transmit at un-modulation mode to test frequency stability.

4.6.7 Test Results

Frequency Stability Versus Temp.									
Operating Frequency: 5180 MHz									
TEMP. (℃)	Power Supply (Vdc)	0 Minute		2 Minutes		5 Minutes		10 Minutes	
		Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail
40	56	5179.9805	Pass	5179.9803	Pass	5179.9805	Pass	5179.9797	Pass
30	56	5180.0145	Pass	5180.0178	Pass	5180.0188	Pass	5180.0191	Pass
20	56	5179.9809	Pass	5179.9843	Pass	5179.9836	Pass	5179.9841	Pass
10	56	5180.0176	Pass	5180.0168	Pass	5180.0128	Pass	5180.0152	Pass
0	56	5179.991	Pass	5179.9901	Pass	5179.9951	Pass	5179.992	Pass

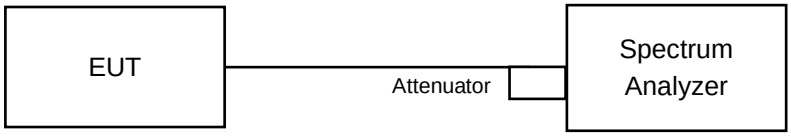
Frequency Stability Versus Voltage									
Operating Frequency: 5180 MHz									
TEMP. (℃)	Power Supply (Vdc)	0 Minute		2 Minutes		5 Minutes		10 Minutes	
		Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail
20	64.4	5179.9803	Pass	5179.985	Pass	5179.984	Pass	5179.9831	Pass
	56	5179.9809	Pass	5179.9843	Pass	5179.9836	Pass	5179.9841	Pass
	47.6	5179.9818	Pass	5179.9845	Pass	5179.9833	Pass	5179.9843	Pass

4.7 6dB Bandwidth Measurement

4.7.1 Limits of 6dB Bandwidth Measurement

The minimum of 6dB Bandwidth Measurement is 0.5MHz.

4.7.2 Test Setup



4.7.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.7.4 Test Procedure

MEASUREMENT PROCEDURE REF

a. Set resolution bandwidth (RBW) = 100kHz
b. Set the video bandwidth (VBW) ≥ 3 x RBW, Detector = Peak.
c. Trace mode = max hold.
d. Sweep = auto couple.
e. Measure the maximum width of the emission that is constrained by the frequencies associated with the two amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission

4.7.5 Deviation from Test Standard

No deviation.

4.7.6 EUT Operating Condition

The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.

4.7.7 Test Results

802.11a

Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (MHz)	Pass / Fail
144 (U-NII-3 Band)	5720	2.58	0.5	Pass
149	5745	15.19	0.5	Pass
157	5785	15.15	0.5	Pass
165	5825	15.19	0.5	Pass

802.11ac (VHT20)

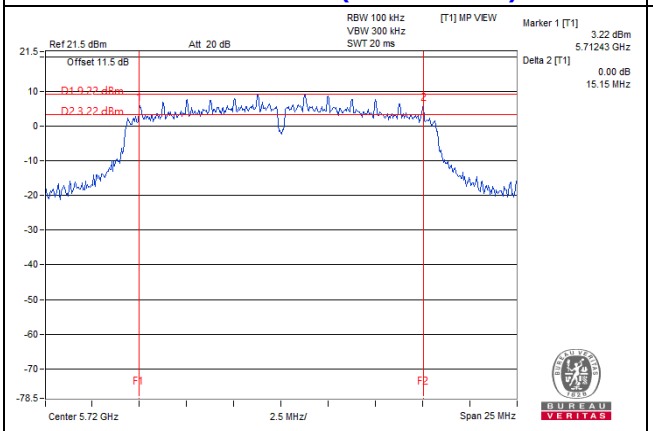
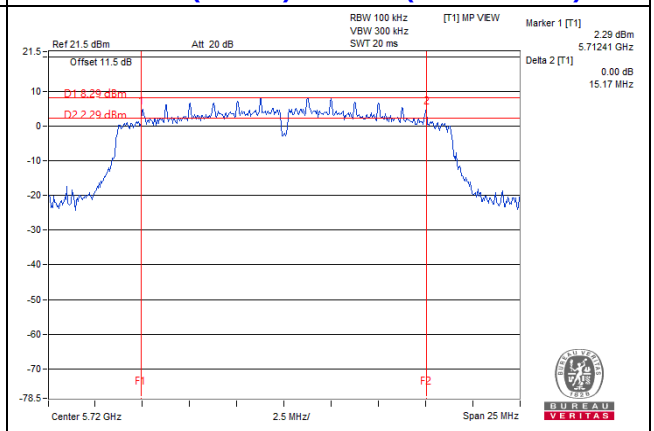
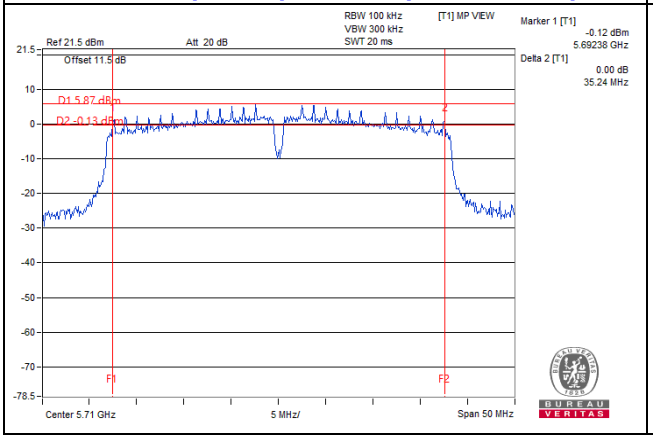
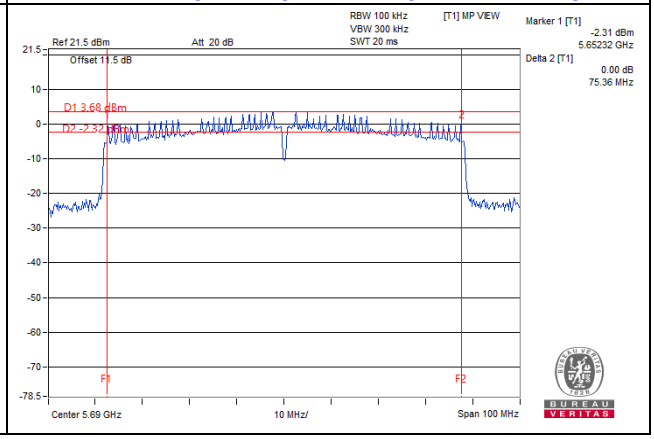
Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (MHz)	Pass / Fail
144 (U-NII-3 Band)	5720	2.58	0.5	Pass
149	5745	15.16	0.5	Pass
157	5785	15.18	0.5	Pass
165	5825	15.12	0.5	Pass

802.11ac (VHT40)

Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (MHz)	Pass / Fail
142 (U-NII-3 Band)	5710	2.62	0.5	Pass
151	5755	35.24	0.5	Pass
159	5795	35.23	0.5	Pass

802.11ac (VHT80)

Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (MHz)	Pass / Fail
138 (U-NII-3 Band)	5690	2.68	0.5	Pass
155	5775	75.4	0.5	Pass

Spectrum Plot of Worst Value	
802.11a / CH144 (U-NII-3 Band)	**802.11ac (VHT20) / CH144 (U-NII-3 Band)**
	
802.11ac (VHT40) / CH142 (U-NII-3 Band)	**802.11ac (VHT80) / CH138 (U-NII-3 Band)**
	

Note: The 6dB bandwidth above 5725MHz = Marker 1 + Delta 2 - 5725MHz

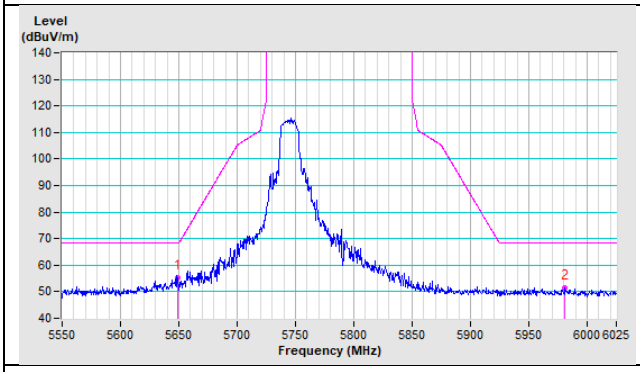
5 Pictures of Test Arrangements

Please refer to the attached file (Test Setup Photo).

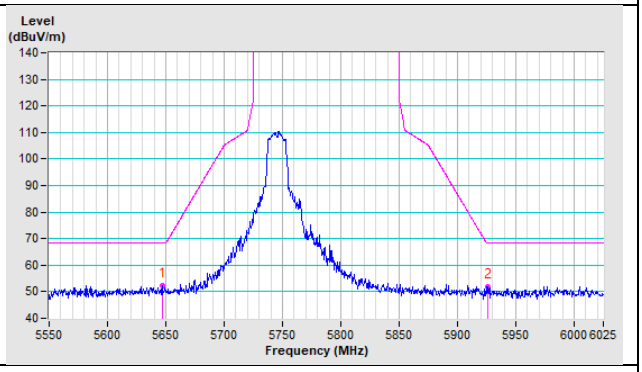
Annex A - Radiated Out of Band Emission (OOBE) Measurement (For U-NII-3 band)

802.11a CH 149：5745 MHz

Horizontal

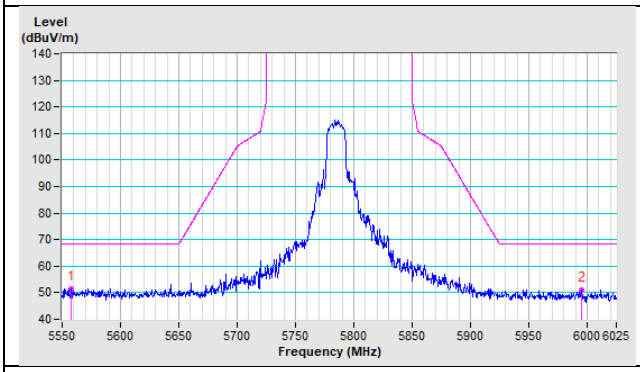


Vertical

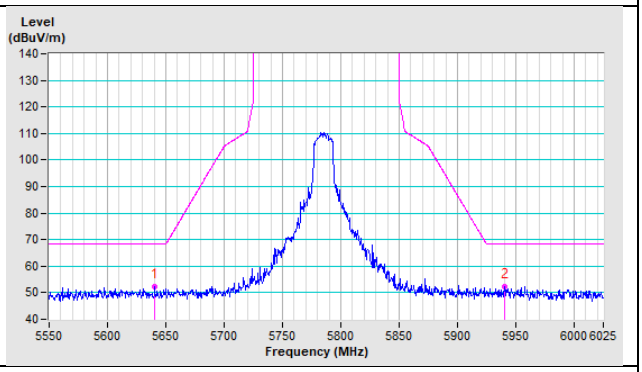


802.11a CH 157：5785 MHz

Horizontal

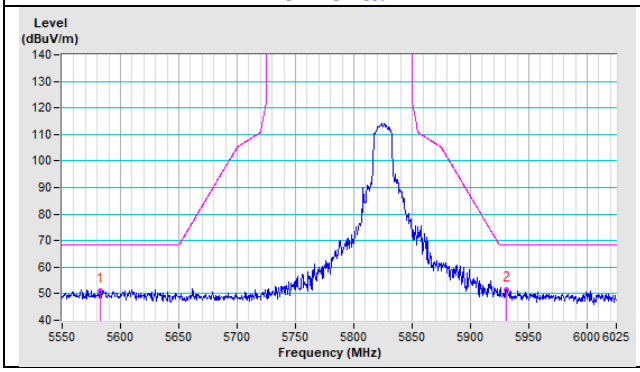


Vertical

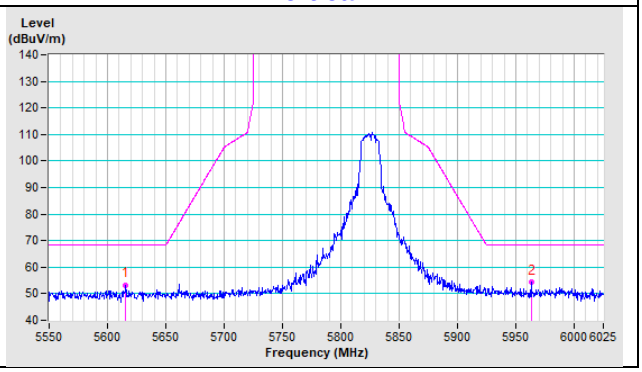


802.11a CH 165：5825 MHz

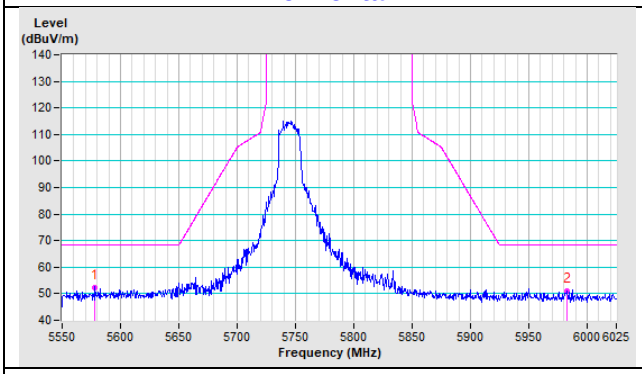
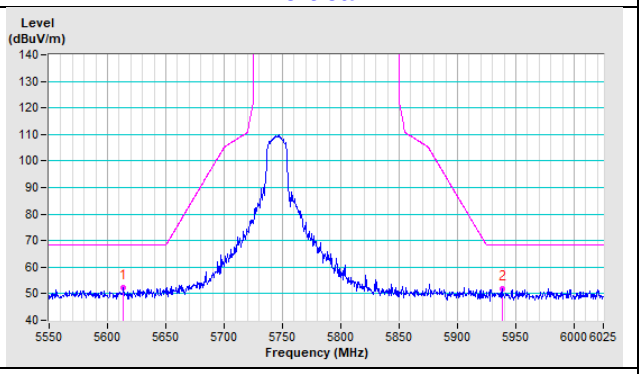
Horizontal



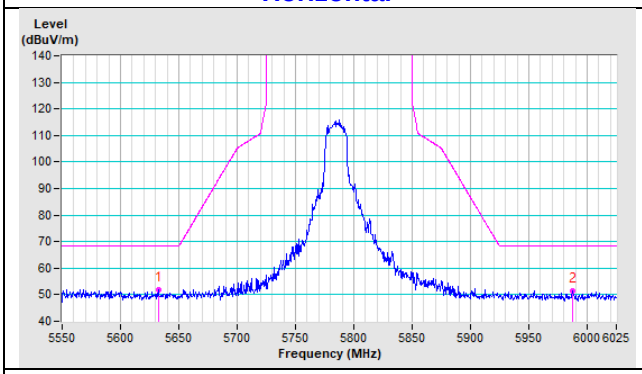
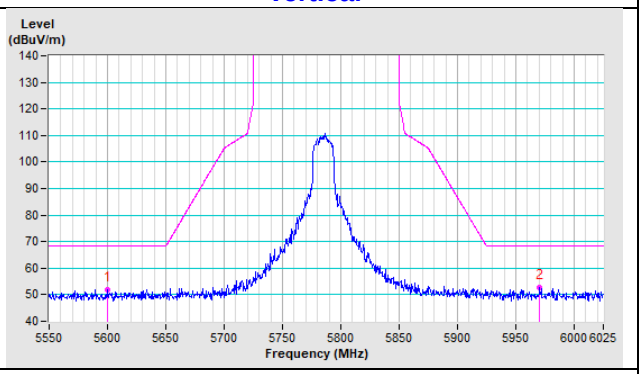
Vertical



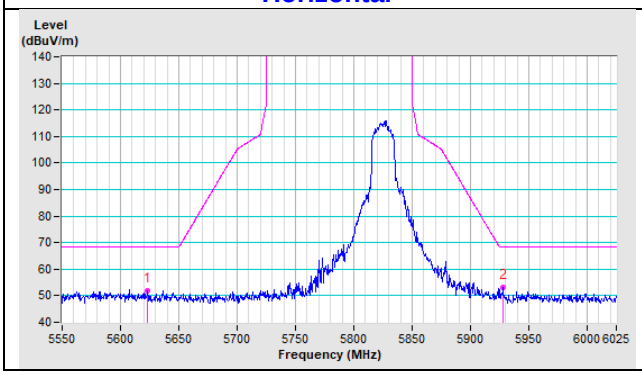
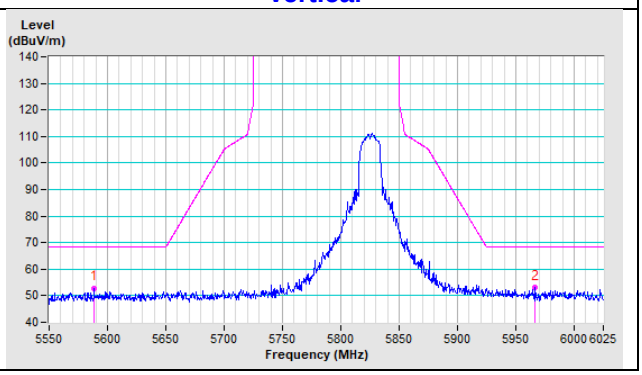
802.11ac (VHT20) CH 149：5745 MHz

Horizontal	Vertical
	

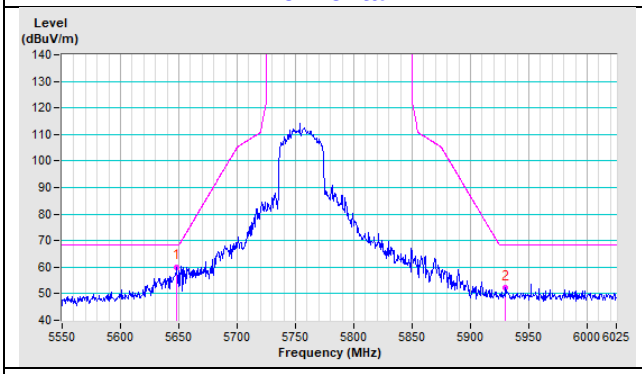
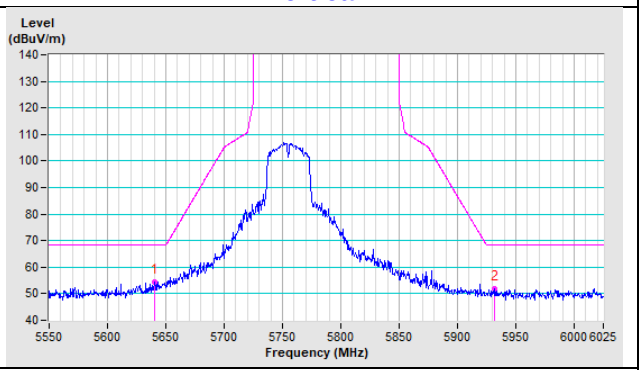
802.11ac (VHT20) CH 157：5785 MHz

Horizontal	Vertical
	

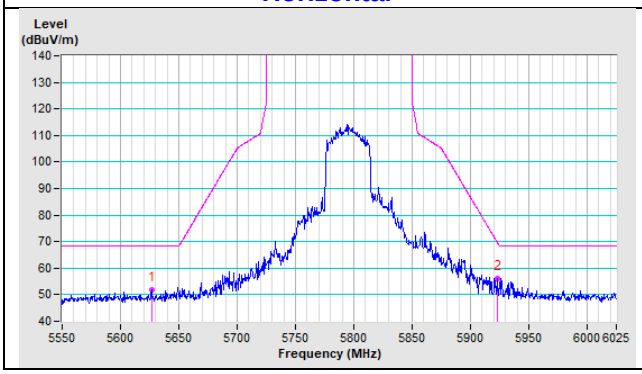
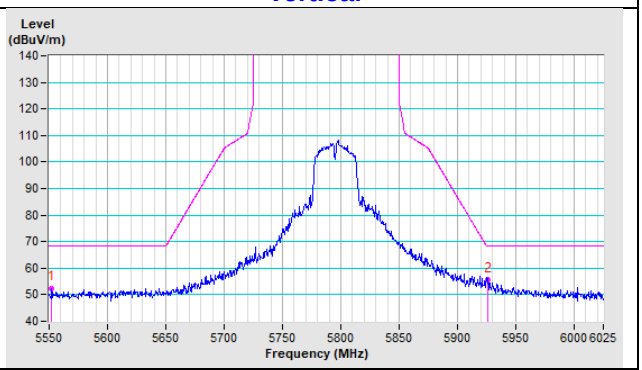
802.11ac (VHT20) CH 165：5825 MHz

Horizontal	Vertical
	

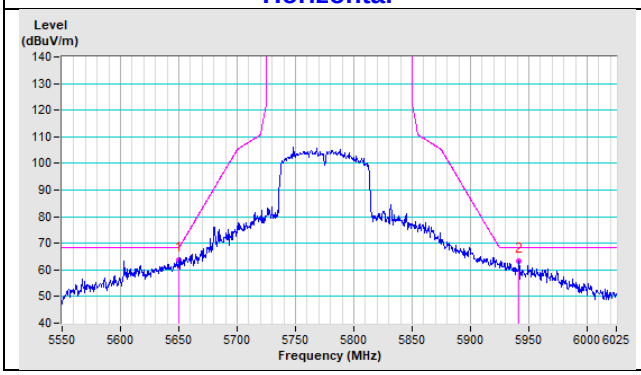
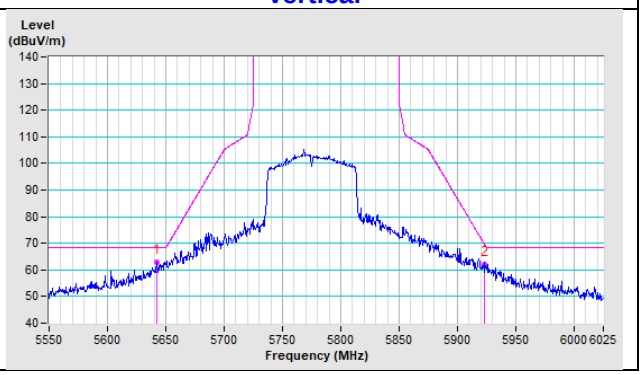
802.11ac (VHT40) CH 151：5755 MHz

Horizontal	Vertical
	

802.11ac (VHT40) CH 159：5795 MHz

Horizontal	Vertical
	

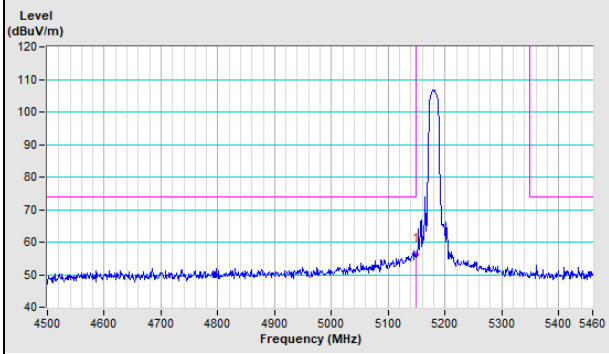
802.11ac (VHT80) CH 155：5775 MHz

Horizontal	Vertical
	

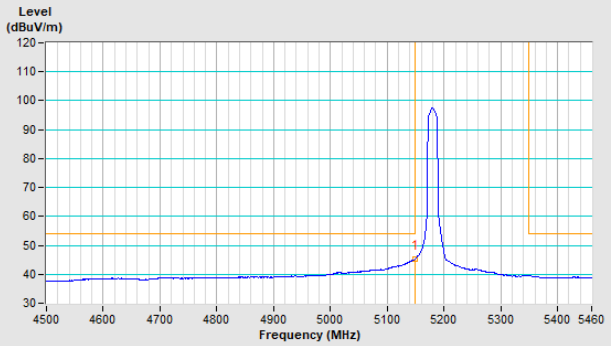
Annex B - Band-Edge Measurement (For U-NII-1, U-NII-2A, U-NII-2C band)

802.11a Channel 36

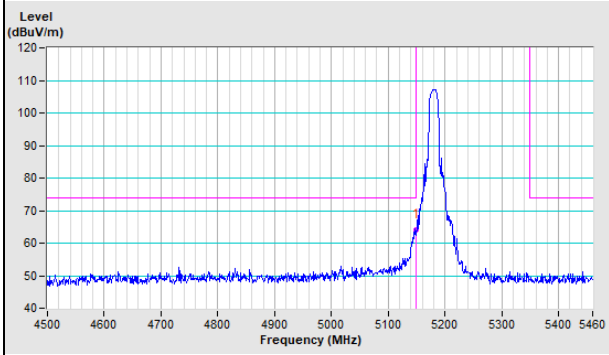
Horizontal (Peak)



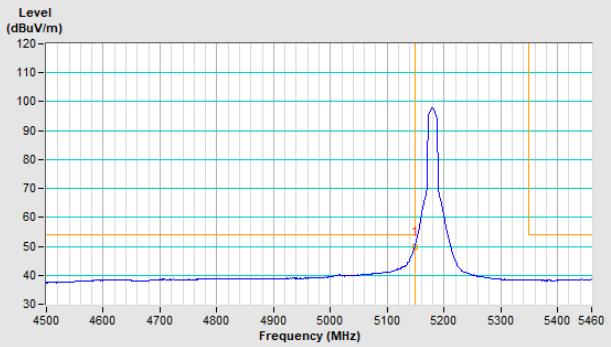
Horizontal (Average)



Vertical (Peak)

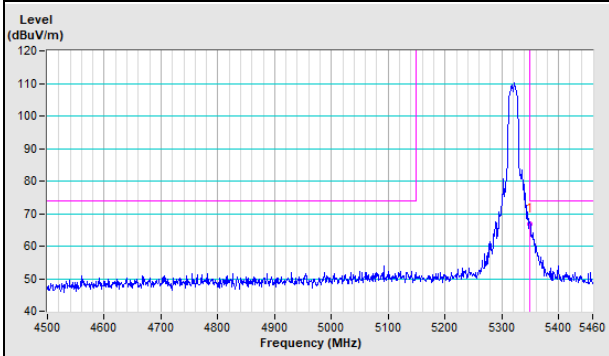


Vertical (Average)

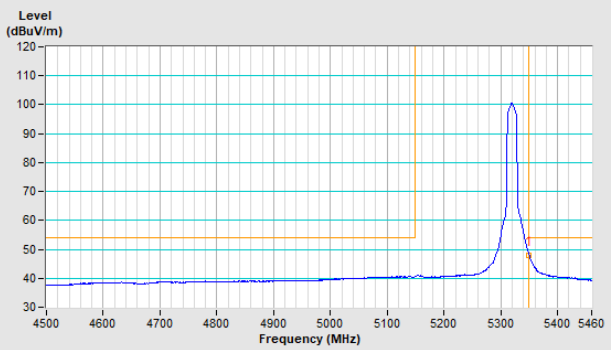


802.11a Channel 64

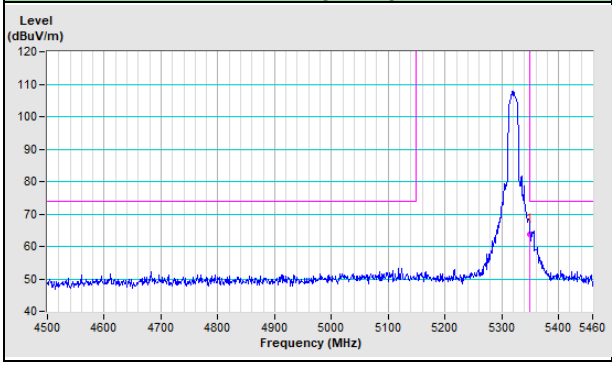
Horizontal (Peak)



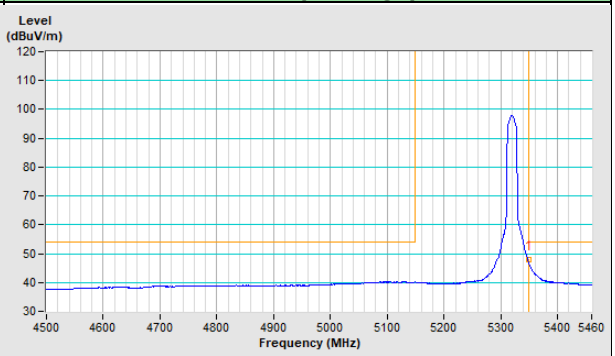
Horizontal (Average)

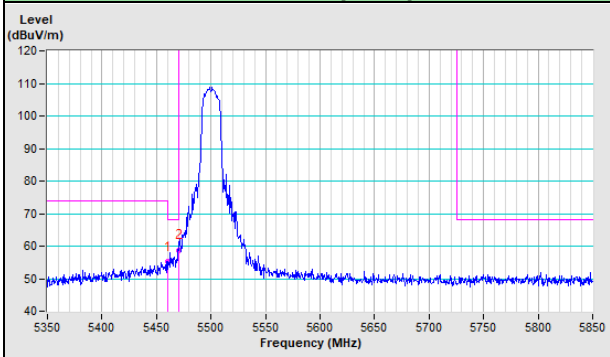
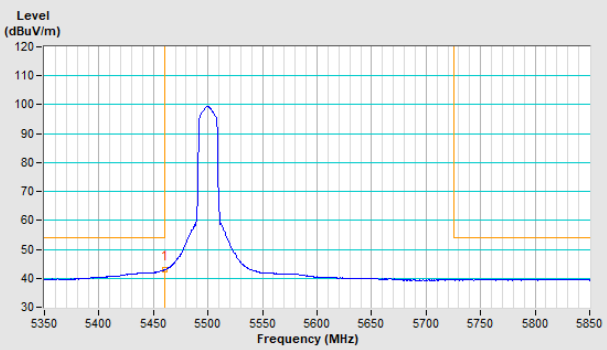
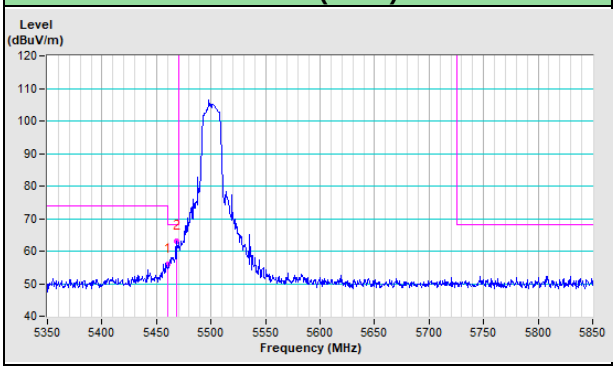
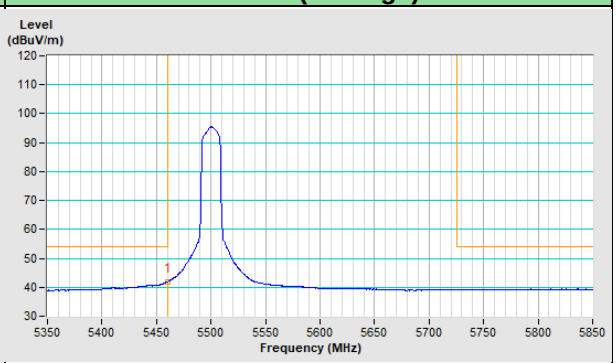


Vertical (Peak)



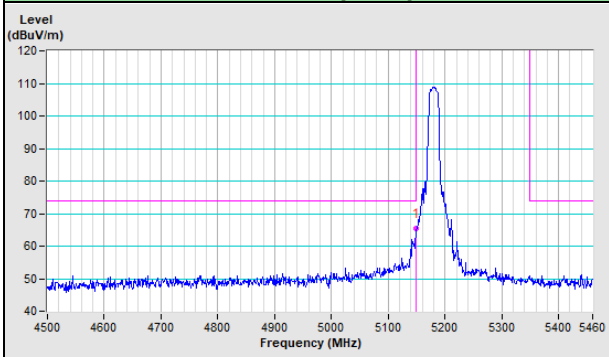
Vertical (Average)



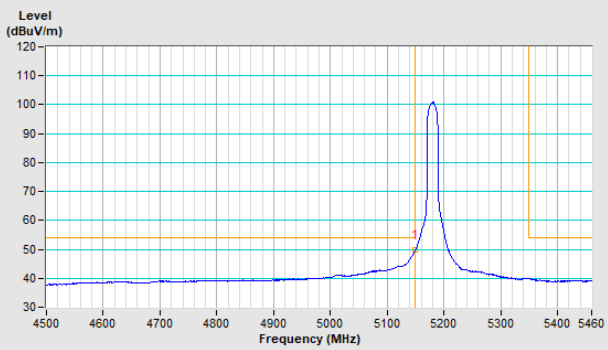
802.11a Channel 100	
Horizontal (Peak)	Horizontal (Average)
	
Vertical (Peak)	Vertical (Average)
	

802.11ac (VHT20) Channel 36

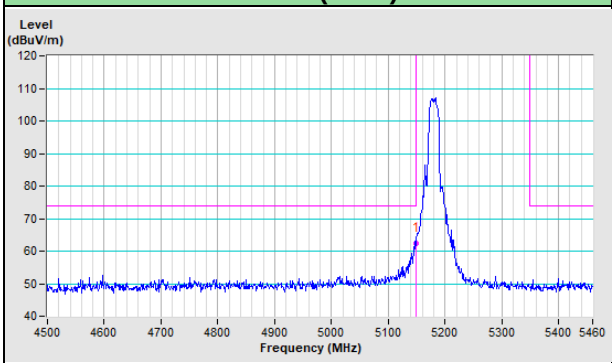
Horizontal (Peak)



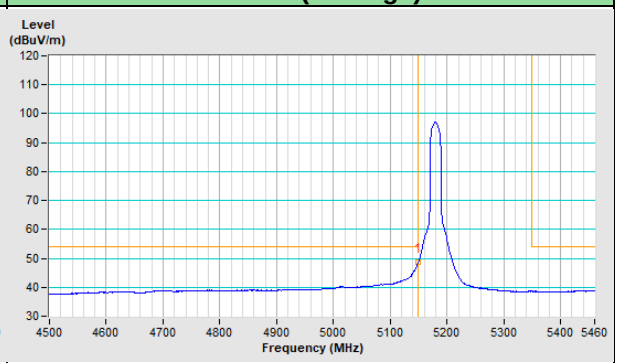
Horizontal (Average)



Vertical (Peak)

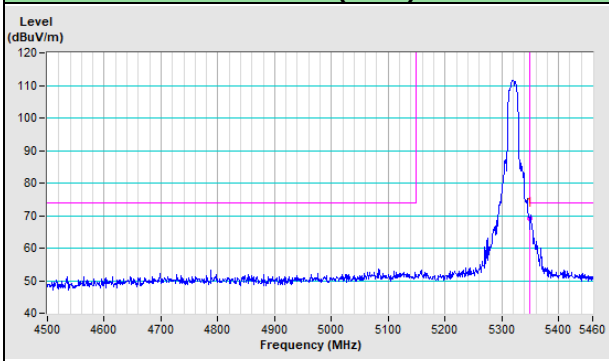


Vertical (Average)

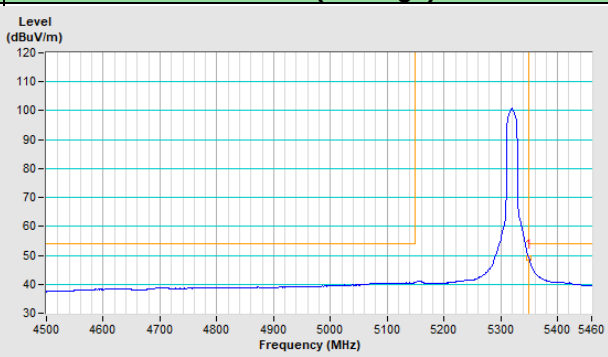


802.11ac (VHT20) Channel 64

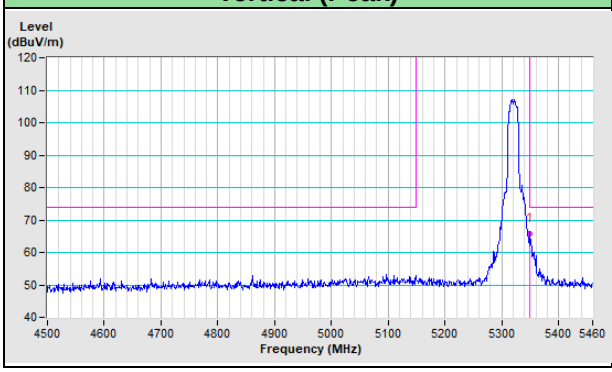
Horizontal (Peak)



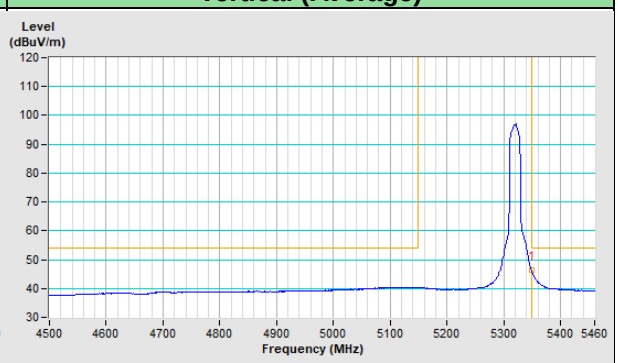
Horizontal (Average)

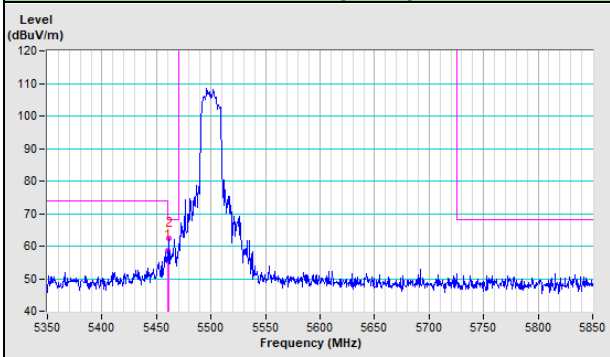
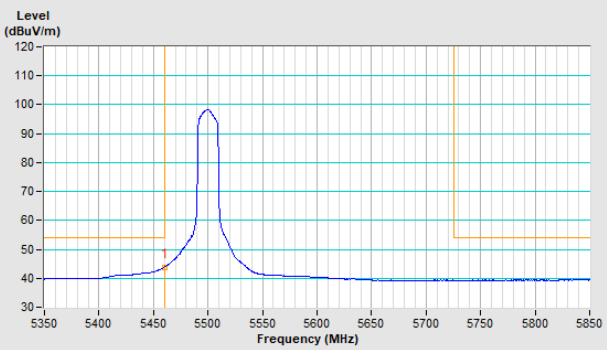
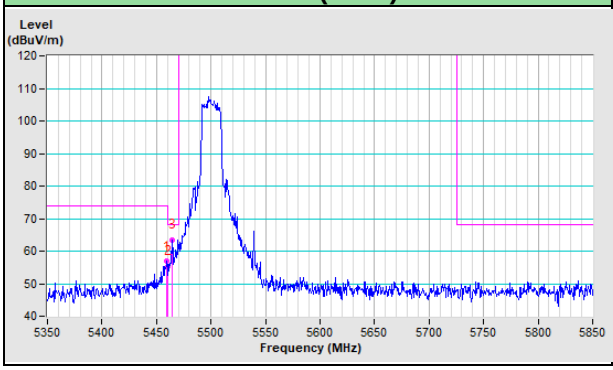
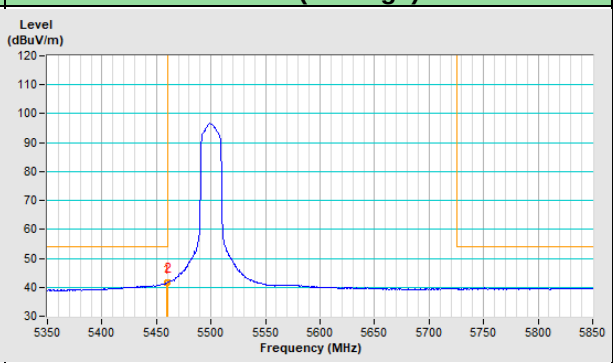


Vertical (Peak)



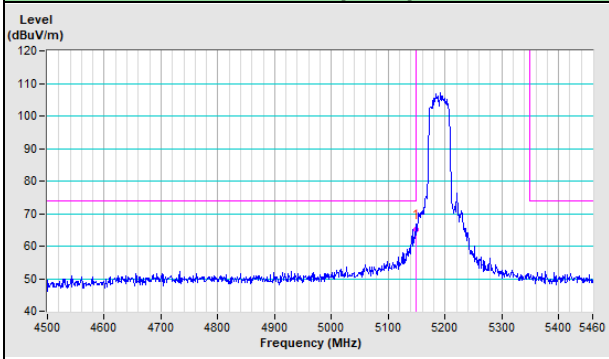
Vertical (Average)



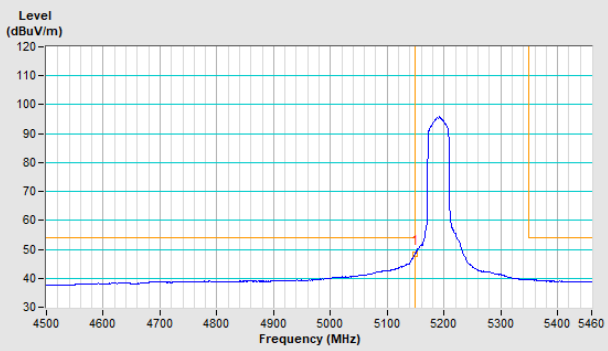
802.11ac (VHT20) Channel 100	
Horizontal (Peak)	Horizontal (Average)
	
Vertical (Peak)	Vertical (Average)
	

802.11ac (VHT40) Channel 38

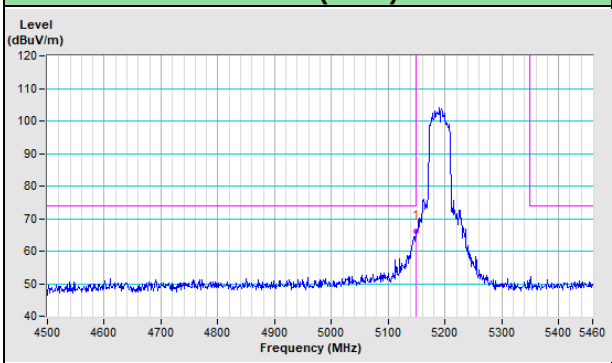
Horizontal (Peak)



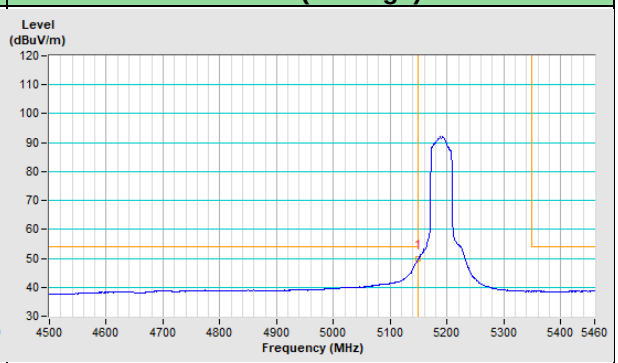
Horizontal (Average)



Vertical (Peak)

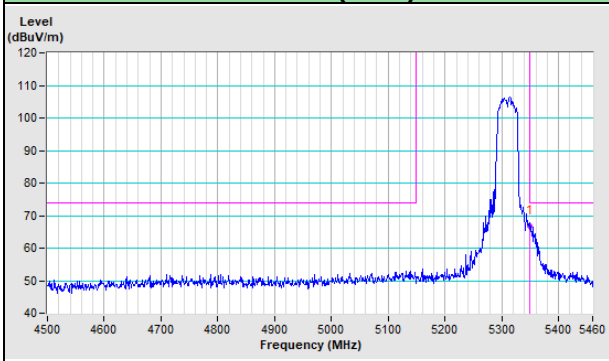


Vertical (Average)

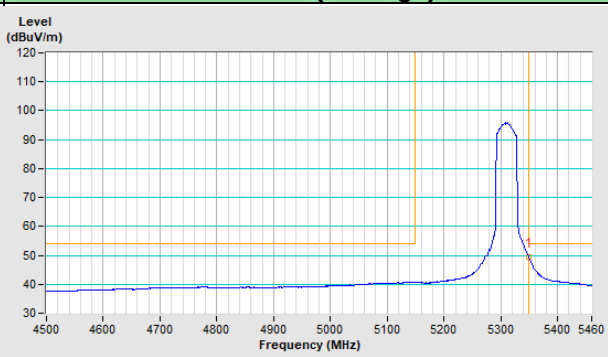


802.11ac (VHT40) Channel 62

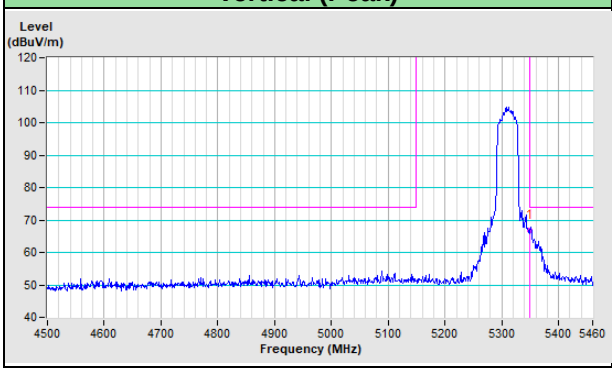
Horizontal (Peak)



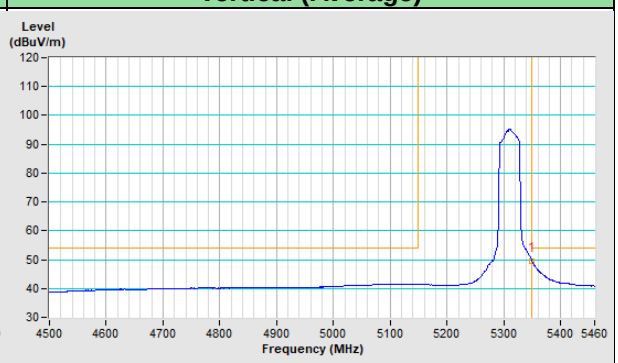
Horizontal (Average)

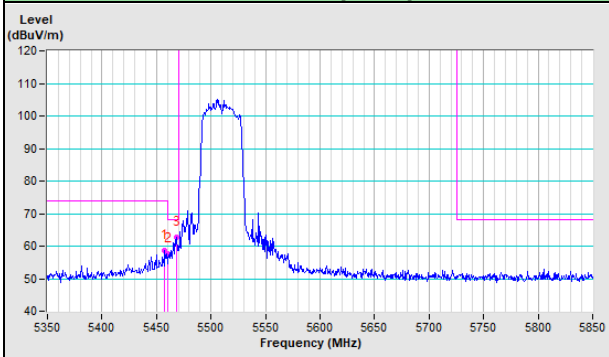
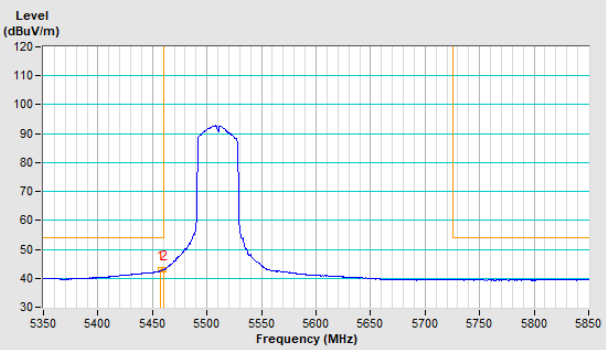
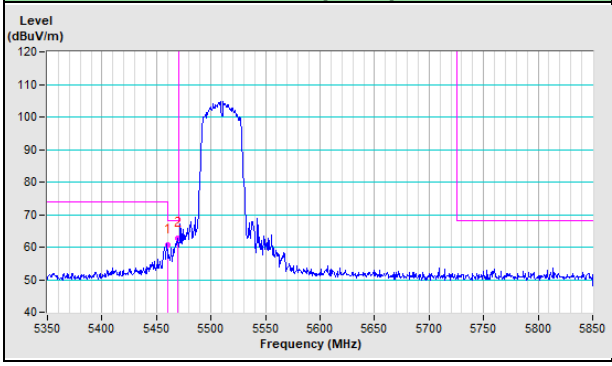
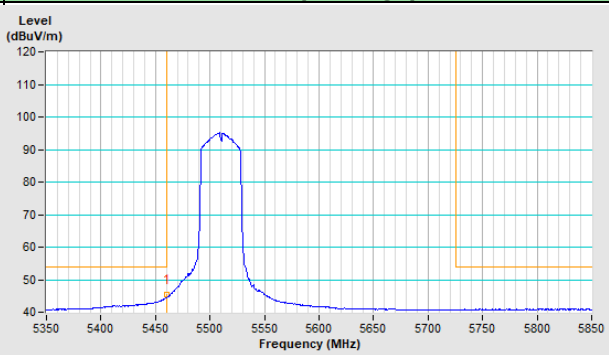


Vertical (Peak)



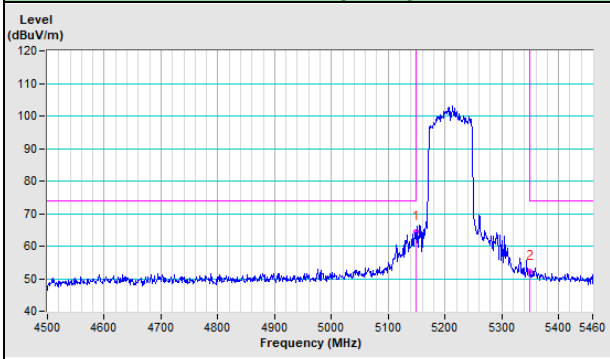
Vertical (Average)



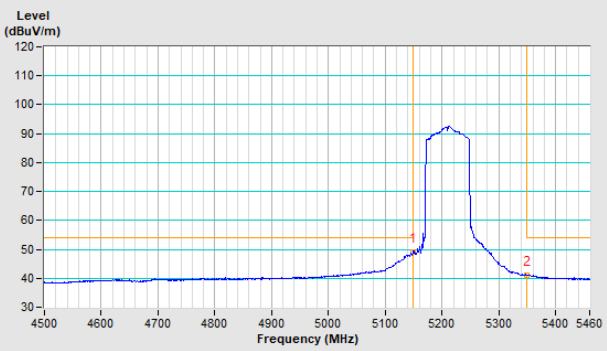
802.11ac (VHT40) Channel 102	
Horizontal (Peak)	Horizontal (Average)
	
Vertical (Peak)	Vertical (Average)
	

802.11ac (VHT80) Channel 42

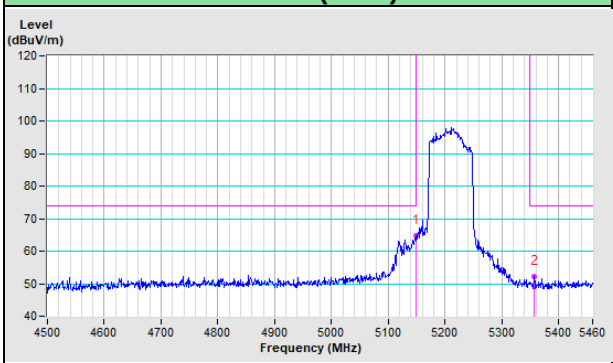
Horizontal (Peak)



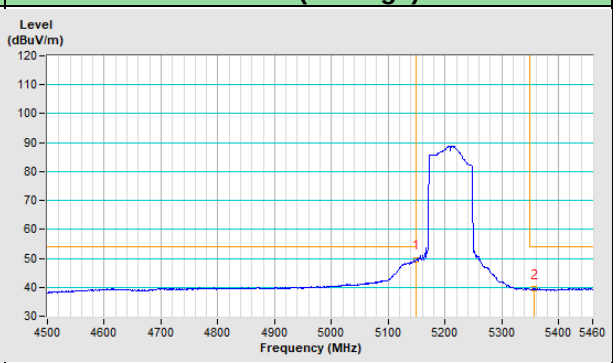
Horizontal (Average)



Vertical (Peak)

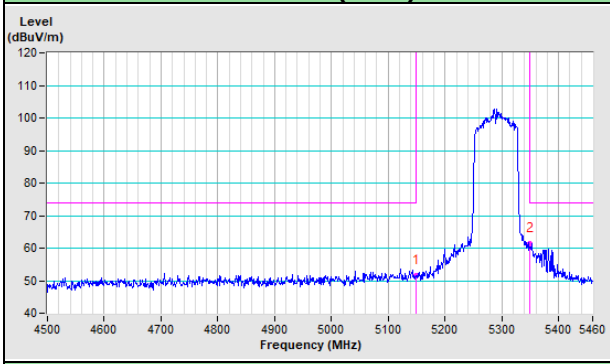


Vertical (Average)

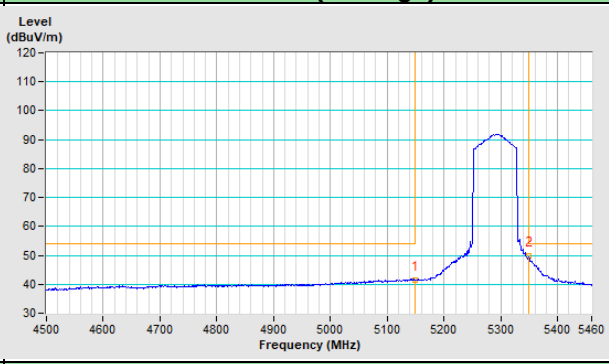


802.11ac (VHT80) Channel 58

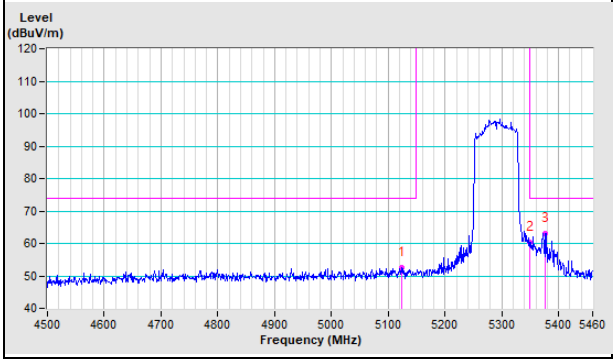
Horizontal (Peak)



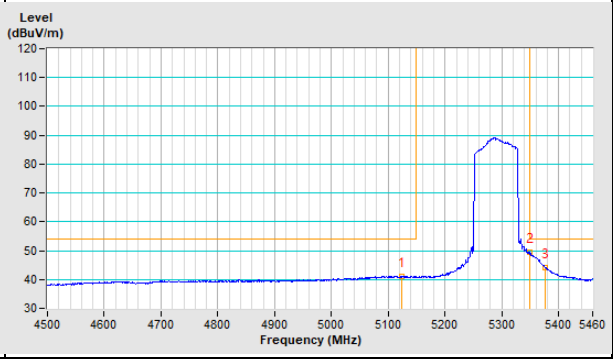
Horizontal (Average)

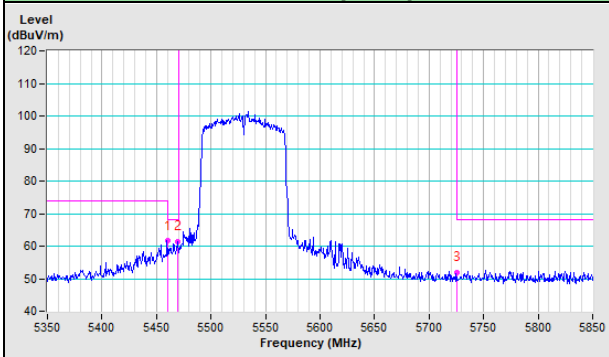
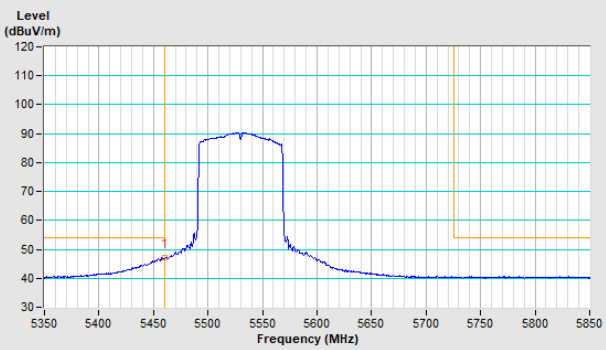
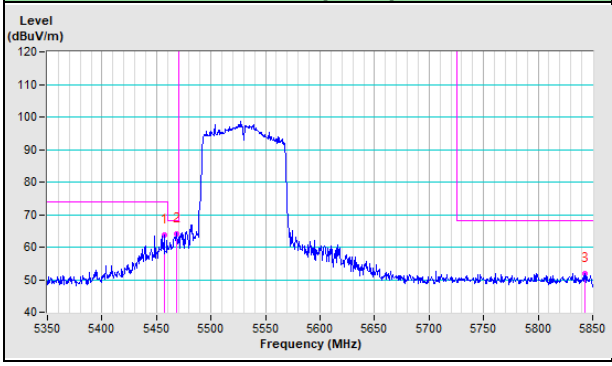
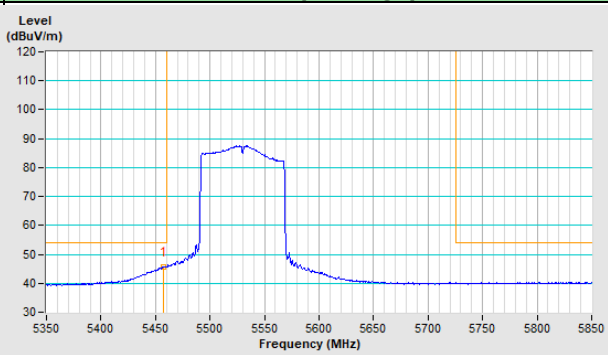


Vertical (Peak)



Vertical (Average)



802.11ac (VHT80) Channel 106	
Horizontal (Peak)	**Horizontal (Average)**
	
Vertical (Peak)	**Vertical (Average)**
	

Appendix – Information of the Testing Laboratories

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are FCC recognized accredited test firms and accredited according to ISO/IEC 17025.

If you have any comments, please feel free to contact us at the following:

Lin Kou EMC/RF Lab
Tel: 886-2-26052180
Fax: 886-2-26051924

Hsin Chu EMC/RF/Telecom Lab
Tel: 886-3-6668565
Fax: 886-3-6668323

Hwa Ya EMC/RF/Safety Lab
Tel: 886-3-3183232
Fax: 886-3-3270892

Email: service.adt@tw.bureauveritas.com
Web Site: www.bureauveritas-adt.com

The address and road map of all our labs can be found in our web site also.

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