

FCC RADIO TEST REPORT

FCC ID: 2A2P9-AP6275S

Product: Wi-Fi/Bluetooth Module

Trade Mark: EF ECOFLOW, ECOFLOW

Model No.: AP6275S

Family Model: N/A

Report No.: S25050906101004

Issue Date: Jun. 17, 2025

Prepared for

EcoFlow Inc.

RM 401, Plant #1, Runheng Industrial Zone, Fuhai Street, Bao'an
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Prepared by

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TEST RESULT CERTIFICATION

Applicant's name : EcoFlow Inc.

Address : RM 401,Plant #1,Runheng Industrial Zone,Fuhai Street,Bao'an District,
Shenzhen 518000 China

Manufacturer's Name : EcoFlow Inc.

Address : RM 401,Plant #1,Runheng Industrial Zone,Fuhai Street,Bao'an District,
Shenzhen 518000 China

Product description

Product name : Wi-Fi/Bluetooth Module

Trademark : EF ECOFLOW, ECOFLOW

Model and/or type reference : AP6275S

Family Model : N/A

Test Sample Number : S250509061001

Standards : FCC Part15.407

Test procedure ANSI C63.10-2013
KDB 789033 D02 General UNII Test Procedures New Rules v02r01
KDB 905462 D03 Client Without DFS New Rules v01r02
KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02
KDB 662911 D01 Multiple Transmitter Output v02r01

This device described above has been tested by NTEK, and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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Date of Test

Date (s) of performance of tests May. 09, 2025 ~ Jun. 17, 2025

Date of Issue Jun. 17, 2025

Test Result **Pass**

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Revision History

Report No.	Version	Description	Issued Date
S25050906101004	Rev.01	Initial issue of report	Jun. 17, 2025

1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

FCC Part15 (15.407) , Subpart E			
Standard Section	Test Item	Judgment	Remark
15.207	AC Power Line Conducted Emissions	PASS	
15.209(a), 15.407 (b)(1) 15.407 (b)(2) 15.407 (b)(3) 15.407 (b)(4) 15.407(b)(8)(9)	Spurious Radiated Emissions	PASS	
15.407 (a)	26 dB and 99% Emission Bandwidth	PASS	
15.407(e)	Minimum 6 dB bandwidth	PASS	
15.407 (a)	Maximum Conducted Output Power	PASS	
15.407 (b)(1) 15.407 (b)(2) 15.407 (b)(3) 15.407 (b)(4)	Band Edge	PASS	
15.407 (a)	Power Spectral Density	PASS	
15.407(b)	Spurious Emissions at Antenna Terminals	PASS	
15.407(g)	Frequency Stability Measurement	PASS	
15.407(h)	Dynamic Frequency Selection(DFS)	PASS	
15.203	Antenna Requirement	PASS	
15.407(c)	Automatically discontinue transmission	PASS	(Note 3)

NOTE:

- (1)" N/A" denotes test is not applicable in this Test Report
- (2) This device operates with a duty cycle greater than 99%
- (3) The product is a client device, and the data transmission is limited by the AP.
When the information to be sent is missing or the operation fails,
the device will automatically stop sending and directly connect to the AP correctly again.

1.1 FACILITIES AND ACCREDITATIONS

FACILITIES

All measurement facilities used to collect the measurement data are located at
No. 24 Xinfu East Road, Xiangshan Community, Xinqiao Street, Baoan District, Shenzhen, Guangdong,
People's Republic of China

The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.10 and
CISPR Publication 22.

LABORATORY ACCREDITATIONS AND LISTINGS

Site Description

CNAS-Lab. : The Certificate Registration Number is L5516.

IC-Registration : The Certificate Registration Number is 9270A.
CAB identifier: CN0074

FCC- Accredited : Test Firm Registration Number: 463705.
Designation Number: CN1184

A2LA-Lab. : The Certificate Registration Number is 4298.01

Name of Firm : Shenzhen NTEK Testing Technology Co., Ltd.

Site Location : No. 24 Xinfu East Road, Xiangshan Community, Xinqiao Street, Baoan District,
Shenzhen, Guangdong, People's Republic of China

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a
standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of
approximately 95 %.

No.	Item	Uncertainty
1	Conducted Emission Test	$\pm 2.80\text{dB}$
2	RF power, conducted, PSD	$\pm 0.16\text{dB}$
3	Spurious emissions, conducted	$\pm 0.21\text{dB}$
4	All emissions, radiated(9KHz~30MHz)	$\pm 6\text{dB}$
5	All emissions, radiated(30MHz~1GHz)	$\pm 2.64\text{dB}$
6	All emissions, radiated(1GHz~6GHz)	$\pm 2.40\text{dB}$
7	All emissions, radiated(> 6GHz)	$\pm 2.52\text{dB}$
8	Temperature	$\pm 0.5^\circ\text{C}$
9	Humidity	$\pm 2\%$
10	Radio Frequency	$\pm 0.2\text{ppm}$
11	Occupied bandwidth	$\pm 3.7\%$

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	Wi-Fi/Bluetooth Module	
Trade Mark	EF ECOFLOW, ECOFLOW	
Model Name	AP6275S	
Family Model	N/A	
Model Difference	N/A	
FCC ID	2A2P9-AP6275S	
Product Description	Mode Supported	☒ 802.11a/n/ac/ax (20MHz channel bandwidth) ☒ 802.11n/ac/ax (40MHz channel bandwidth) ☒ 802.11ac/ax (80MHz channel bandwidth)
	Data Rate	802.11a: 6/9/12/18/24/36/48/54Mbps; 802.11n (20MHz): MCS0-15, up to 144Mbps 802.11n (40MHz): MCS0-15, up to 300Mbps 802.11ac (20MHz): MCS0-8, up to 173.4Mbps 802.11ac (40MHz): MCS0-9, up to 400Mbps 802.11ac (80MHz): MCS0-9, up to 866.6Mbps 802.11ax (20MHz): MCS0-11, up to 286.8Mbps 802.11ax (40MHz): MCS0-11, up to 573.5Mbps 802.11ax (80MHz): MCS0-11, up to 1201Mbps
	Modulation	802.11a: OFDM (BPSK / QPSK / 16QAM/64QAM) 802.11n: OFDM (QPSK/BPSK/16QAM/64QAM) 802.11ac: OFDM (QPSK/BPSK/16QAM/64QAM/ 256QAM) 802.11ax: OFDMA (QPSK/BPSK/16QAM/64QAM/ 256QAM/1024QAM)
	Operating Frequency Range	☒ U-NII-1: 5150 MHz ~5250MHz ☒ U-NII-2A: 5250MHz~5350MHz ☒ U-NII-2C: 5470MHz~5725MHz ☒ U-NII-3: 5725 MHz ~5850 MHz
	Function:	☐ Outdoor AP ☐ Indoor AP ☐ Fixed P2P ☒ Client
	DFS type:	☐ master devices ☐ Slave devices with radar detection ☒ Slave devices without radar detection
	Support TPC	☐ YES ☒ NO
	Antenna Type	Antenna1: PCB antenna Antenna2: PCB antenna
	Antenna Gain	Antenna1: 6.93dBi; Antenna2: 8.01dBi
	Smart system	☒ SISO for 802.11a/n/ac/ax ☒ MIMO for 802.11n/ac/ax
Based on the application, features, or specification exhibited in User's Manual, More details of EUT technical specification, please refer to the User's Manual.		

Adapter	N/A
Battery	N/A
Rating	DC 3.3V
Connecting I/O Port(s)	Please refer to the User's Manual
HW Version	N/A
FW Version	N/A
SW Version	N/A

Note:

- For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.
- Frequency and Channel list:

Band	20MHz		40MHz		80MHz	
	Channel	Frequency	Channel	Frequency	Channel	Frequency
U-NII-1	36	5180 MHz	38	5190 MHz	42	5210 MHz
	40	5200 MHz	46	5230 MHz	-	-
	44	5220 MHz				
	48	5240 MHz				
U-NII-2A	52	5260 MHz	54	5270 MHz	58	5290 MHz
	56	5280 MHz	62	5310 MHz		
	60	5300 MHz				
	64	5320 MHz				
U-NII-2C	100	5500 MHz	102	5510 MHz	106	5530 MHz
	104	5520 MHz	110	5550 MHz	122	5610 MHz
	108	5540 MHz	118	5590 MHz		
	112	5560 MHz	126	5630 MHz		
	116	5580 MHz	134	5670 MHz		
	120	5600 MHz				
	124	5620 MHz				
	128	5640 MHz				
	132	5660 MHz				
	136	5680 MHz				
U-NII-3	140	5700 MHz				
	149	5745 MHz	151	5755 MHz	155	5775 MHz
	153	5765 MHz	159	5795 MHz		
	157	5785 MHz				
	161	5805 MHz				
	165	5825 MHz				

for 5G WIFI have two antennas, and different modes support different transmit mode what describe as Following form:

Mode	Tx/Rx
802.11a/n/ac/ax	1TX, 1RX
802.11n/ac/ax	1TX/2TX, 1RX/2RX

For 5GHz mode, Antenna 1,2 are transmitting, each with the same directional gain.
For MIMO mode, Directional gain= $[10\log(10^{G1/20}+10^{G2/20})^2/N_{ANT}]$ dBi =10.5dBi in 5GHz
the 802.11n(20/40) ac/ax(20/40/80) 5GHz has MIMO mode.

Note: G1 means antenna gain for ANT1 in dBi.

G2 means antenna gain for ANT2 in dBi.

N_{ANT} means the number of Antennas.

2.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

For Radiated Emission	
Final Test Mode	Description
Mode 1	Normal Link Mode
Mode 2	802.11a/n/ac/ax 20 CH36/ CH40/CH48/CH52/CH56/CH64/CH100/CH120 /CH140/CH149/CH157/CH165
Mode 3	802.11n40/ac/ ax40 CH38/CH46/CH54/CH62/CH102/CH118/CH134 /CH151/CH159
Mode 4	802.11ac/ax80 CH42/CH58/CH106/CH122/CH155

For Conducted Emission	
Final Test Mode	Description
Mode 1	Normal Link Mode
Mode 2	802.11a/n/ac/ax 20 CH36/ CH40/CH48/CH52/CH56/CH64/CH100/CH120 /CH140/CH149/CH157/CH165
Mode 3	802.11n40/ac/ ax40 CH38/CH46/CH54/CH62/CH102/CH118/CH134 /CH151/CH159
Mode 4	802.11ac/ax80 CH42/CH58/CH106/CH122/CH155

Note:

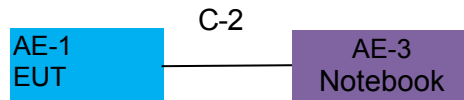
- (1) The measurements are performed at the highest, middle, lowest available channels.
- (2) The measurements are performed at all Bit Rate of Transmitter, the worst data was reported

2.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

For AC Conducted Emission Mode



For Radiated Test Cases



For Conducted Test Cases



Note: 1. The temporary antenna connector is soldered on the PCB board in order to perform conducted tests and this temporary antenna connector is listed in the equipment list.

2. The product has passed radiated emission testing per ANSI C63.10 Section 12.7.4.2 using a 50Ω termination cabinet, achieving a compliance margin >20dB, with conducted spurious emission data documented in the attached report.

2.4 DESCRIPTION OF SUPPORT UNITS(CONDUCTED MODE)

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.

Item	Equipment	Model/Type No.	Series No.	Note
AE-1	Wi-Fi/Bluetooth Module	AP6275S	N/A	EUT
AE-2	DC Power	N/A	N/A	Peripherals
AE-3	Notebook	N/A	N/A	Peripherals

Item	Cable Type	Shielded Type	Ferrite Core	Length
C-1	Power Cable	NO	NO	1.0m
C-2	Serial Cable	NO	NO	1.0m
C-3	RF Cable	YES	NO	0.1m

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in 『Length』 column.

2.5 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation& Conducted Test equipment

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	Spectrum Analyzer	Agilent	E4440A	MY41000130	2025.04.24	2026.04.23	1 year
2	Spectrum Analyzer	Agilent	N9020A	MY49100060	2025.04.17	2026.04.16	1 year
3	Spectrum Analyzer	R&S	FSV40	101417	2025.04.17	2026.04.16	1 year
4	Test Receiver	R&S	ESPI7	101318	2025.04.17	2026.04.16	1 year
5	Bilog Antenna	TESEQ	CBL6111D	31216	2025.04.17	2026.04.16	1 year
6	50Ω Coaxial Switch	Anritsu	MP59B	6200983705	2024.04.26	2027.04.25	3 year
7	Horn Antenna	EM	EM-AH-10180	2011071402	2024.05.12	2027.05.11	3 year
8	Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	803	2024.05.12	2027.05.11	3 year
9	Amplifier	EMC	EMC051835SE	980246	2025.04.17	2026.04.16	1 year
10	Active Loop Antenna	SCHWARZBECK	FMZB 1519B	055	2024.05.17	2027.05.16	3 year
11	Power Meter	DARE	RPR3006W	15I00041SN084	2025.04.17	2026.04.16	1 year
12	Test Cable (9KHz-30MHz)	N/A	R-01	N/A	2023.05.06	2026.05.05	3 year
13	Test Cable (30MHz-1GHz)	N/A	R-02	N/A	2023.05.06	2026.05.05	3 year
14	High Test Cable(1G-40GHz)	N/A	R-03	N/A	2023.05.06	2026.05.05	3 year
15	Filter	TRILTHIC	2400MHz	29	2024.04.26	2027.04.25	3 year
16	temporary antenna connector (Note)	NTS	R001	N/A	N/A	N/A	N/A

Note:

We will use the temporary antenna connector (soldered on the PCB board) When conducted test
And this temporary antenna connector is listed within the instrument list

AC Conduction Test equipment

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	Test Receiver	R&S	ESCI	101160	2025.04.17	2026.04.16	1 year
2	LISN	R&S	ENV216	101313	2025.04.16	2026.04.15	1 year
3	LISN	SCHWARZBECK	NNLK 8129	8129245	2025.04.16	2026.04.15	1 year
4	50Ω Coaxial Switch	ANRITSU CORP	MP59B	6200983704	2024.04.26	2027.04.25	3 year
5	Test Cable (9KHz-30MHz)	N/A	C01	N/A	2023.05.06	2026.05.05	3 year
6	Test Cable (9KHz-30MHz)	N/A	C02	N/A	2023.05.06	2026.05.05	3 year
7	Test Cable (9KHz-30MHz)	N/A	C03	N/A	2023.05.06	2026.05.05	3 year

Note: Each piece of equipment is scheduled for calibration once a year except the Test Cable& Aux Equipment which is scheduled for calibration every 3 years.

Measurement Software

Item	Manufacturer	Software Name	Software Version	Description
1	MWRFTtest	MTS 8310 2.4GHz/5GHz	2.0	RF Conducted Test
2	Farad	EZ-EMC_RE	AIT-03A	RadiatedTest
3	raditeq	RadiMation	2023.1.3	RadiatedTest
4	Farad	EZ-EMC_CE	AIT-03A	AC Conducted Test

3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 APPLICABLE STANDARD

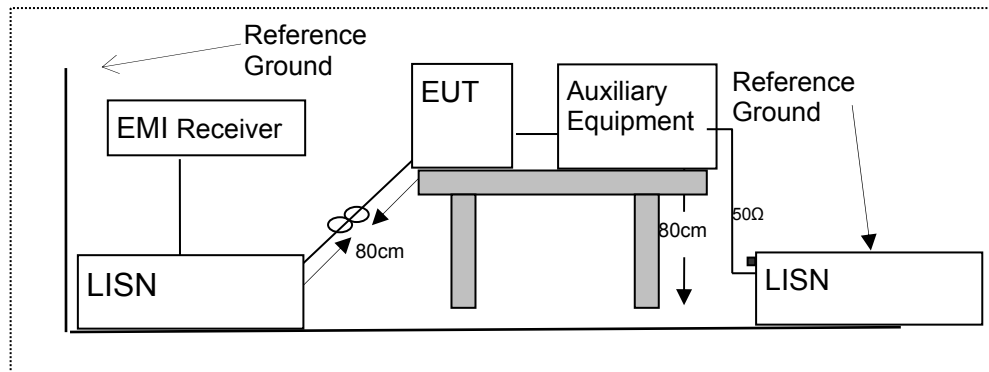
According to FCC Part 15.207(a)

3.1.2 CONFORMANCE LIMIT

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

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

3.1.3 TEST CONFIGURATION



3.1.4 TEST PROCEDURE

According to the requirements in Section 13.1.4.1 of ANSI C63.10-2013 Conducted emissions the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-Peak and average detector mode.

1. The EUT was placed 0.4 meter from the conducting wall of the shielding room.
2. The EUT was placed on a table which is 0.8m above ground plane.
3. Connect EUT to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
4. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40cm long.
5. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
6. LISN at least 80 cm from nearest part of EUT chassis.
7. The frequency range from 150KHz to 30MHz was searched.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth(IF bandwidth=9KHz) with Maximum Hold Mode
9. For the actual test configuration, please refer to the related Item –EUT Test Photos.

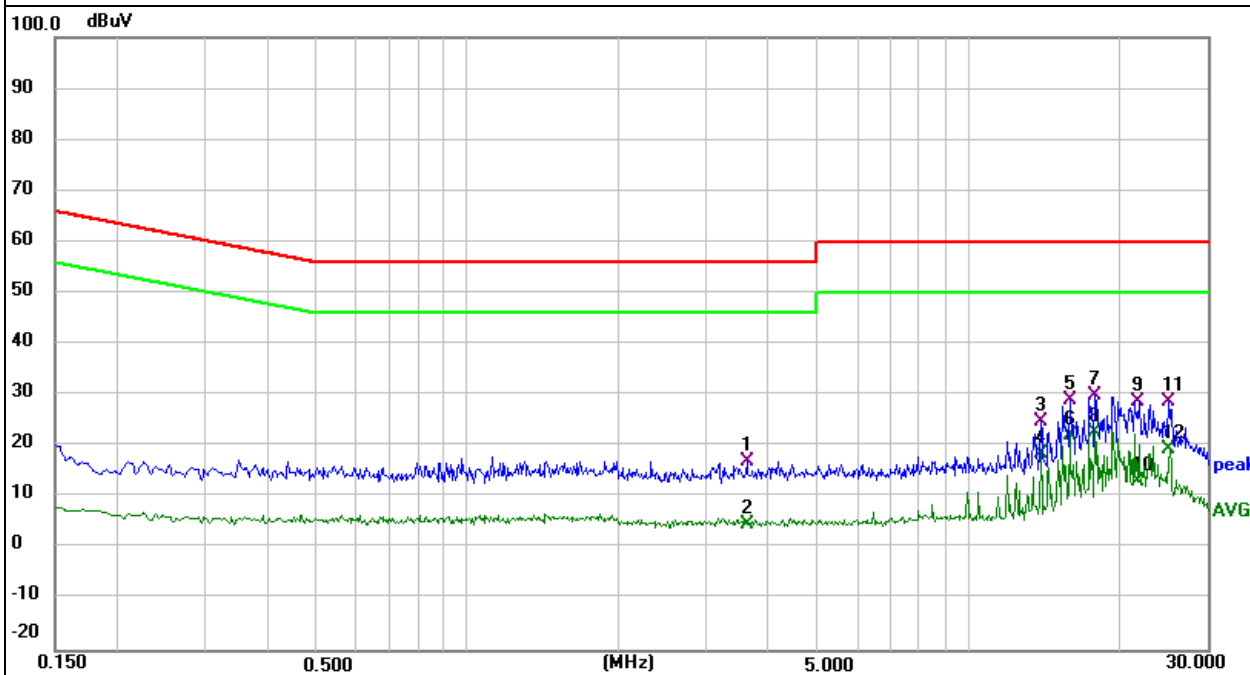
3.1.5 TEST RESULTS

EUT :	Wi-Fi/Bluetooth Module	Model Name. :	AP6275S
Temperature :	21.4℃	Relative Humidity :	55.1%
Pressure :	1010hPa	Phase :	L
Test Voltage :	AC 120V/60Hz	Test Mode :	Mode 1(5.2G WIFI)

Frequency (MHz)	Reading Level (dBμV)	Correct Factor (dB)	Measure-ment (dBμV)	Limits (dBμV)	Margin (dB)	Remark
3.6060	7.13	9.83	16.96	56.00	-39.04	QP
3.6060	-5.00	9.83	4.83	46.00	-41.17	AVG
13.9460	14.58	10.29	24.87	60.00	-35.13	QP
13.9460	8.13	10.29	18.42	50.00	-31.58	AVG
15.9420	18.78	10.36	29.14	60.00	-30.86	QP
15.9420	11.75	10.36	22.11	50.00	-27.89	AVG
17.9340	19.60	10.33	29.93	60.00	-30.07	QP
17.9340	12.30	10.33	22.63	50.00	-27.37	AVG
21.7180	18.57	10.29	28.86	60.00	-31.14	QP
21.7180	2.73	10.29	13.02	50.00	-36.98	AVG
25.1820	18.42	10.26	28.68	60.00	-31.32	QP
25.1820	9.06	10.26	19.32	50.00	-30.68	AVG

Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.

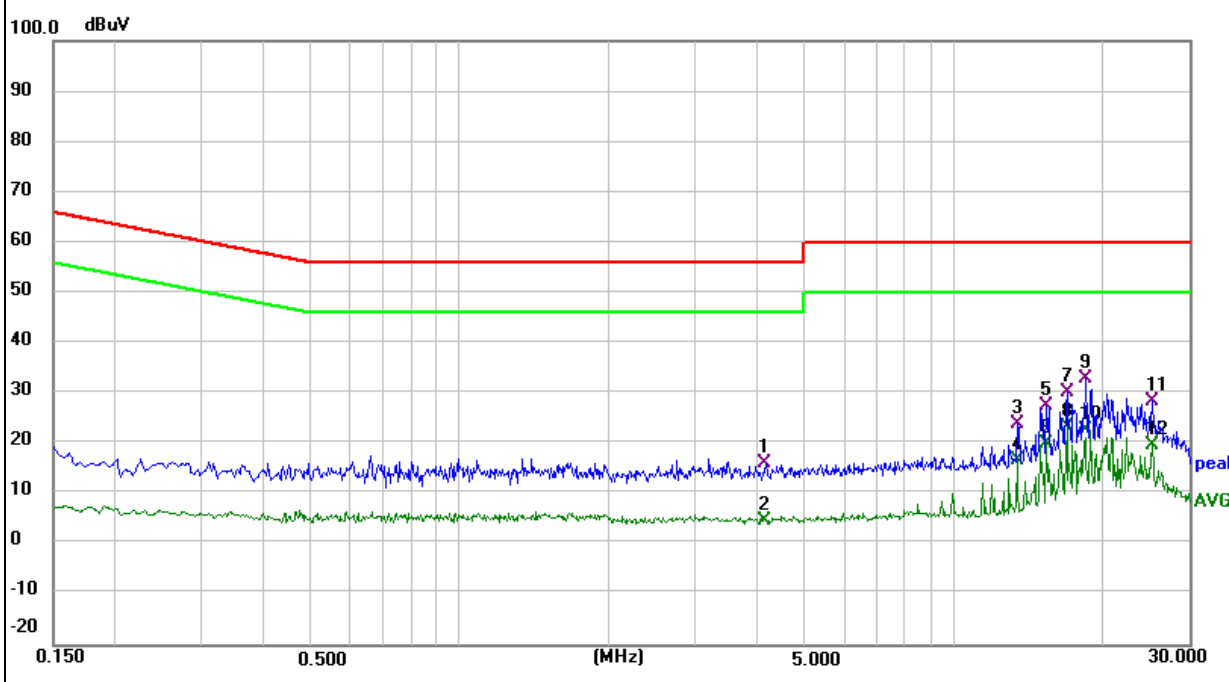


EUT :	Wi-Fi/Bluetooth Module	Model Name. :	AP6275S
Temperature :	21.4 °C	Relative Humidity :	55.1%
Pressure :	1010hPa	Phase :	N
Test Voltage :	AC 120V/60Hz	Test Mode :	Mode 1(5.2G WIFI)

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBμV)	(dB)	(dBμV)	(dBμV)	(dB)	
4.1579	6.30	9.79	16.09	56.00	-39.91	QP
4.1579	-5.02	9.79	4.77	46.00	-41.23	AVG
13.4500	13.84	10.19	24.03	60.00	-35.97	QP
13.4500	6.49	10.19	16.68	50.00	-33.32	AVG
15.4380	17.14	10.30	27.44	60.00	-32.56	QP
15.4380	9.71	10.30	20.01	50.00	-29.99	AVG
16.9380	19.99	10.28	30.27	60.00	-29.73	QP
16.9380	13.01	10.28	23.29	50.00	-26.71	AVG
18.5540	22.57	10.26	32.83	60.00	-27.17	QP
18.5540	12.50	10.26	22.76	50.00	-27.24	AVG
25.2660	17.96	10.36	28.32	60.00	-31.68	QP
25.2660	9.38	10.36	19.74	50.00	-30.26	AVG

Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.

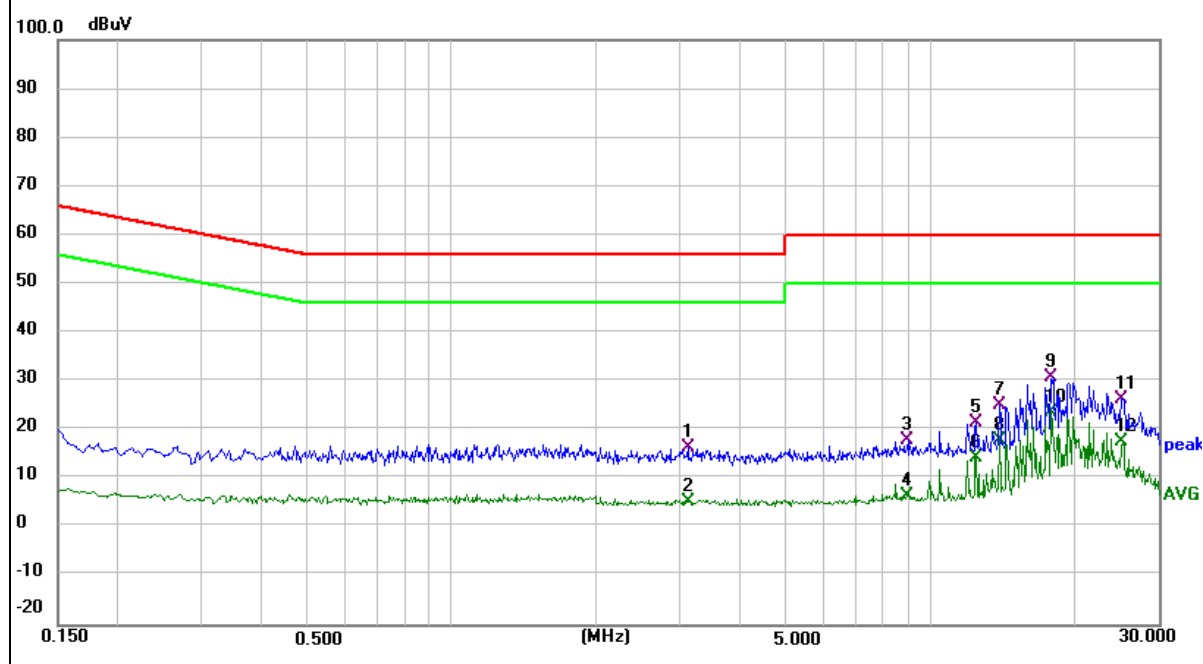


EUT :	Wi-Fi/Bluetooth Module	Model Name. :	AP6275S
Temperature :	21.4 °C	Relative Humidity :	55.1%
Pressure :	1010hPa	Phase :	L
Test Voltage :	AC 120V/60Hz	Test Mode :	Mode 1(5.3G WIFI)

Frequency (MHz)	Reading Level (dBμV)	Correct Factor (dB)	Measure-ment (dBμV)	Limits (dBμV)	Margin (dB)	Remark
3.1220	6.78	9.80	16.58	56.00	-39.42	QP
3.1220	-4.55	9.80	5.25	46.00	-40.75	AVG
8.9580	8.00	9.94	17.94	60.00	-42.06	QP
8.9580	-3.32	9.94	6.62	50.00	-43.38	AVG
12.4540	11.28	10.19	21.47	60.00	-38.53	QP
12.4540	4.30	10.19	14.49	50.00	-35.51	AVG
13.9460	14.73	10.29	25.02	60.00	-34.98	QP
13.9460	7.76	10.29	18.05	50.00	-31.95	AVG
17.9340	20.65	10.33	30.98	60.00	-29.02	QP
17.9340	13.43	10.33	23.76	50.00	-26.24	AVG
25.1820	16.14	10.26	26.40	60.00	-33.60	QP
25.1820	7.51	10.26	17.77	50.00	-32.23	AVG

Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.

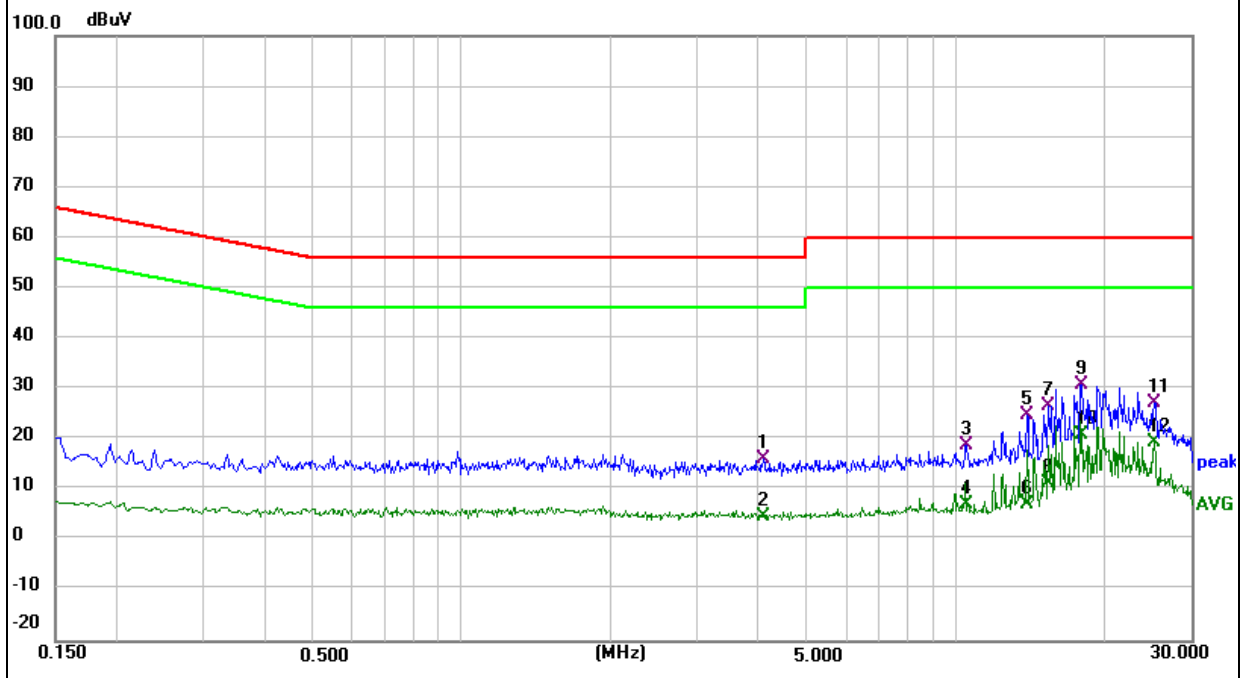


EUT :	Wi-Fi/Bluetooth Module	Model Name. :	AP6275S
Temperature :	21.4 °C	Relative Humidity :	55.1%
Pressure :	1010hPa	Phase :	N
Test Voltage :	AC 120V/60Hz	Test Mode :	Mode 1(5.3G WIFI)

Frequency (MHz)	Reading Level (dBμV)	Correct Factor (dB)	Measure-ment (dBμV)	Limits (dBμV)	Margin (dB)	Remark
4.0900	6.35	9.79	16.14	56.00	-39.86	QP
4.0900	-5.02	9.79	4.77	46.00	-41.23	AVG
10.5340	8.86	9.97	18.83	60.00	-41.17	QP
10.5340	-2.92	9.97	7.05	50.00	-42.95	AVG
13.9500	14.51	10.22	24.73	60.00	-35.27	QP
13.9500	-3.05	10.22	7.17	50.00	-42.83	AVG
15.4380	16.47	10.30	26.77	60.00	-33.23	QP
15.4380	0.99	10.30	11.29	50.00	-38.71	AVG
17.9460	20.48	10.26	30.74	60.00	-29.26	QP
17.9460	10.81	10.26	21.07	50.00	-28.93	AVG
25.2740	16.89	10.36	27.25	60.00	-32.75	QP
25.2740	9.04	10.36	19.40	50.00	-30.60	AVG

Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.

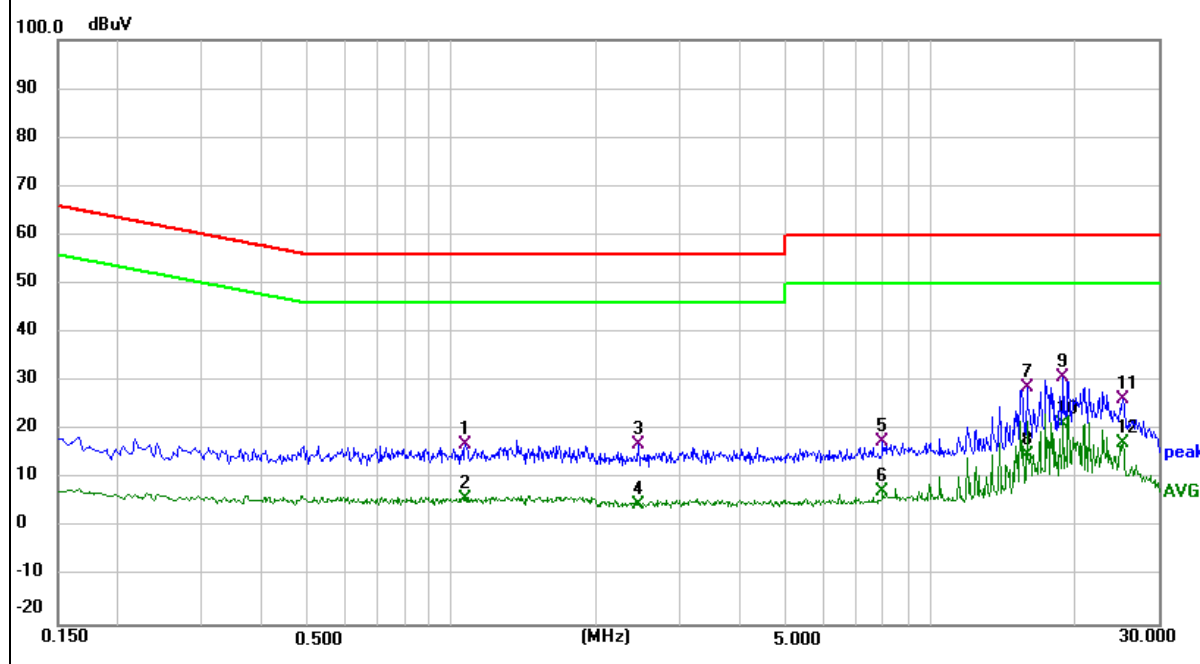


EUT :	Wi-Fi/Bluetooth Module	Model Name. :	AP6275S
Temperature :	21.4 °C	Relative Humidity :	55.1%
Pressure :	1010hPa	Phase :	L
Test Voltage :	AC 120V/60Hz	Test Mode :	Mode 1(5.6G WIFI)

Frequency (MHz)	Reading Level (dBμV)	Correct Factor (dB)	Measure-ment (dBμV)	Limits (dBμV)	Margin (dB)	Remark
1.0660	5.07	11.92	16.99	56.00	-39.01	QP
1.0660	-5.85	11.92	6.07	46.00	-39.93	AVG
2.4500	7.21	9.82	17.03	56.00	-38.97	QP
2.4500	-5.06	9.82	4.76	46.00	-41.24	AVG
7.9740	7.75	9.87	17.62	60.00	-42.38	QP
7.9740	-2.48	9.87	7.39	50.00	-42.61	AVG
15.9420	18.45	10.36	28.81	60.00	-31.19	QP
15.9420	4.65	10.36	15.01	50.00	-34.99	AVG
18.9300	20.66	10.32	30.98	60.00	-29.02	QP
18.9300	11.07	10.32	21.39	50.00	-28.61	AVG
25.2820	16.09	10.26	26.35	60.00	-33.65	QP
25.2820	7.24	10.26	17.50	50.00	-32.50	AVG

Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.

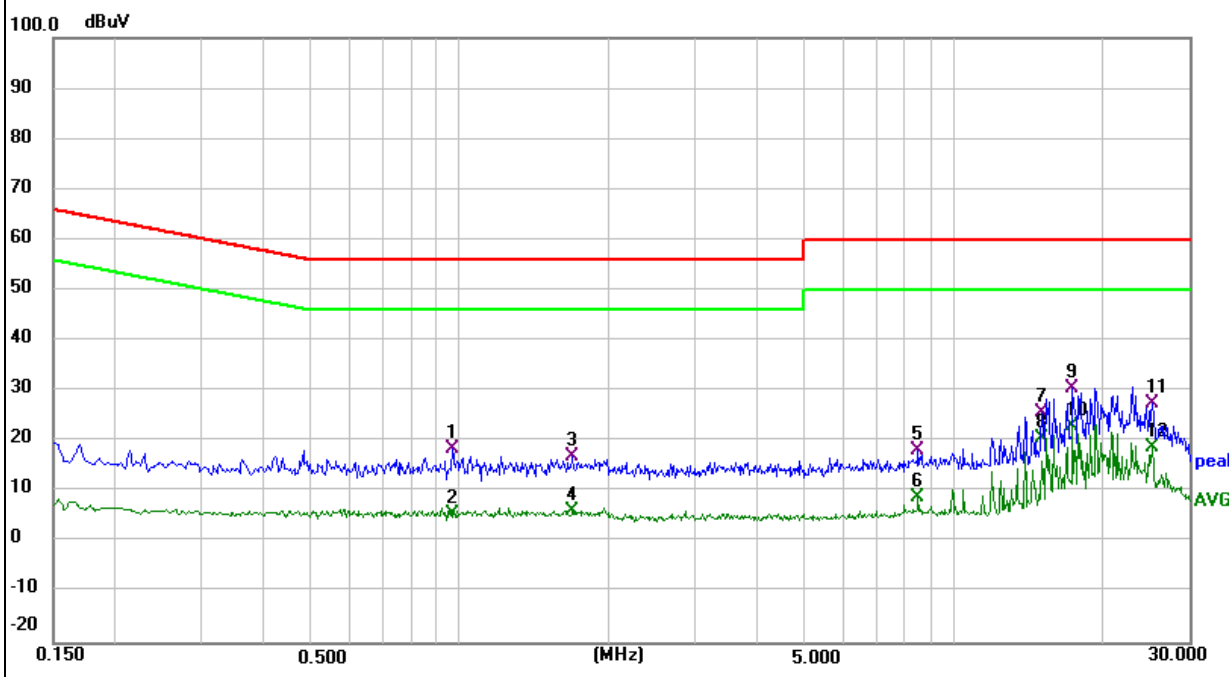


EUT :	Wi-Fi/Bluetooth Module	Model Name. :	AP6275S
Temperature :	21.4 °C	Relative Humidity :	55.1%
Pressure :	1010hPa	Phase :	N
Test Voltage :	AC 120V/60Hz	Test Mode :	Mode 1(5.6G WIFI)

Frequency (MHz)	Reading Level (dBμV)	Correct Factor (dB)	Measure-ment (dBμV)	Limits (dBμV)	Margin (dB)	Remark
0.9660	6.77	11.66	18.43	56.00	-37.57	QP
0.9660	-6.06	11.66	5.60	46.00	-40.40	AVG
1.6980	3.99	13.14	17.13	56.00	-38.87	QP
1.6980	-6.99	13.14	6.15	46.00	-39.85	AVG
8.4700	8.26	9.89	18.15	60.00	-41.85	QP
8.4700	-1.04	9.89	8.85	50.00	-41.15	AVG
15.1420	15.35	10.31	25.66	60.00	-34.34	QP
15.1420	10.42	10.31	20.73	50.00	-29.27	AVG
17.4340	20.34	10.27	30.61	60.00	-29.39	QP
17.4340	12.77	10.27	23.04	50.00	-26.96	AVG
25.2740	17.24	10.36	27.60	60.00	-32.40	QP
25.2740	8.54	10.36	18.90	50.00	-31.10	AVG

Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.

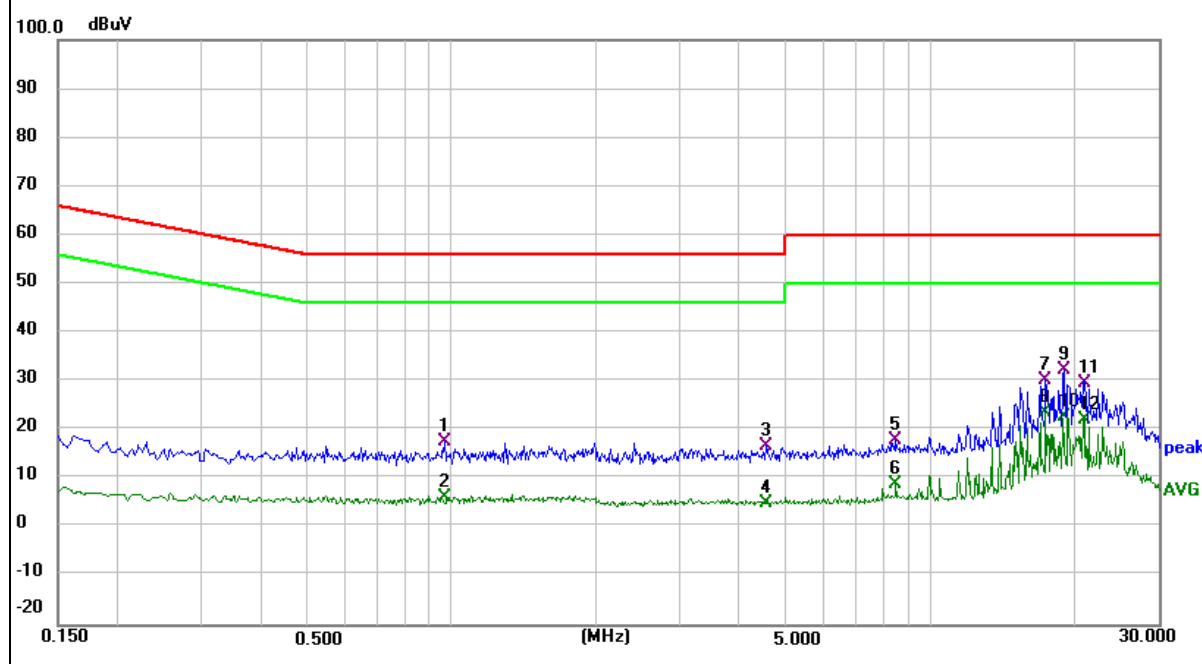


EUT :	Wi-Fi/Bluetooth Module	Model Name. :	AP6275S
Temperature :	21.4 °C	Relative Humidity :	55.1%
Pressure :	1010hPa	Phase :	L
Test Voltage :	AC 120V/60Hz	Test Mode :	Mode 1(5.8G WIFI)

Frequency (MHz)	Reading Level (dBμV)	Correct Factor (dB)	Measure-ment (dBμV)	Limits (dBμV)	Margin (dB)	Remark
0.9660	5.81	11.70	17.51	56.00	-38.49	QP
0.9660	-5.57	11.70	6.13	46.00	-39.87	AVG
4.5460	6.78	9.90	16.68	56.00	-39.32	QP
4.5460	-4.95	9.90	4.95	46.00	-41.05	AVG
8.4700	8.02	9.90	17.92	60.00	-42.08	QP
8.4700	-0.93	9.90	8.97	50.00	-41.03	AVG
17.4460	19.98	10.34	30.32	60.00	-29.68	QP
17.4460	13.23	10.34	23.57	50.00	-26.43	AVG
19.0580	21.91	10.32	32.23	60.00	-27.77	QP
19.0580	12.42	10.32	22.74	50.00	-27.26	AVG
20.9300	19.49	10.30	29.79	60.00	-30.21	QP
20.9300	11.99	10.30	22.29	50.00	-27.71	AVG

Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.

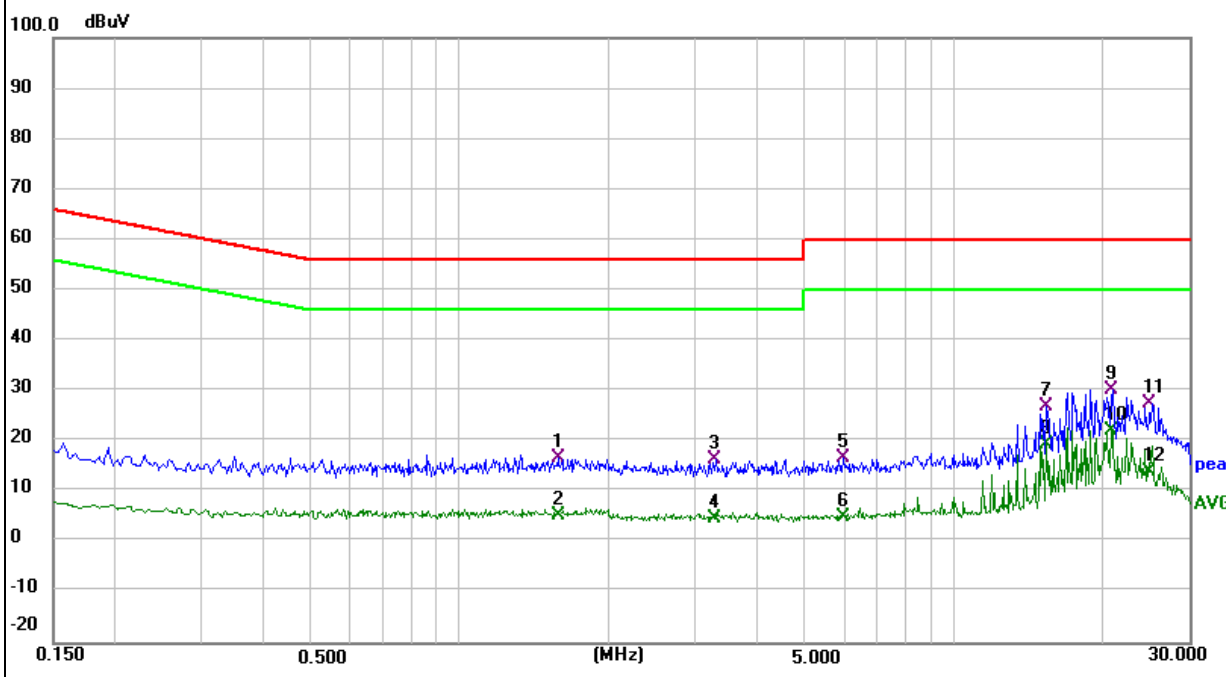


EUT :	Wi-Fi/Bluetooth Module	Model Name. :	AP6275S
Temperature :	21.4 °C	Relative Humidity :	55.1%
Pressure :	1010hPa	Phase :	N
Test Voltage :	AC 120V/60Hz	Test Mode :	Mode 1(5.8G WIFI)

Frequency (MHz)	Reading Level (dBμV)	Correct Factor (dB)	Measure-ment (dBμV)	Limits (dBμV)	Margin (dB)	Remark
1.5820	3.80	12.90	16.70	56.00	-39.30	QP
1.5820	-7.40	12.90	5.50	46.00	-40.50	AVG
3.2820	6.76	9.78	16.54	56.00	-39.46	QP
3.2820	-4.90	9.78	4.88	46.00	-41.12	AVG
5.9740	6.92	9.84	16.76	60.00	-43.24	QP
5.9740	-4.83	9.84	5.01	50.00	-44.99	AVG
15.4420	16.65	10.30	26.95	60.00	-33.05	QP
15.4420	9.22	10.30	19.52	50.00	-30.48	AVG
20.9220	20.07	10.26	30.33	60.00	-29.67	QP
20.9220	12.00	10.26	22.26	50.00	-27.74	AVG
24.9260	17.08	10.34	27.42	60.00	-32.58	QP
24.9260	3.58	10.34	13.92	50.00	-36.08	AVG

Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.



3.2 RADIATED EMISSION MEASUREMENT

3.2.1 APPLICABLE STANDARD

According to FCC Part 15.407(b) and 15.209

3.2.2 CONFORMANCE LIMIT

According to FCC Part 15.407(b)(1)(2)(3)(9)(10): radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

According to FCC Part 15.205, Restricted bands

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(2)
13.36-13.41			

(1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

Restricted Frequency(MHz)	Field Strength (μV/m)	Field Strength (dBμV/m)	Measurement Distance
0.009~0.490	2400/F(KHz)	20 log (uV/m)	300
0.490~1.705	24000/F(KHz)	20 log (uV/m)	30
1.705~30.0	30	29.5	30
30-88	100	40	3
88-216	150	43.5	3
216-960	200	46	3
Above 960	500	54	3

Limits of Radiated Emission Measurement(Above 1000MHz)

Frequency(MHz)	Class B (dBuV/m) (at 3M)	
	PEAK	AVERAGE
Above 1000	74	54

Remark :1. Emission level in dBuV/m=20 log (uV/m)

2. Measurement was performed at an antenna to the closed point of EUT distance of meters.

3. For Frequency 9kHz~30MHz:

Distance extrapolation factor =40log(Specific distance/ test distance)(dB);

Limit line=Specific limits(dBuV) + distance extrapolation factor.

For Frequency above 30MHz:

Distance extrapolation factor = $20\log(\text{Specific distance/ test distance})(\text{dB})$;

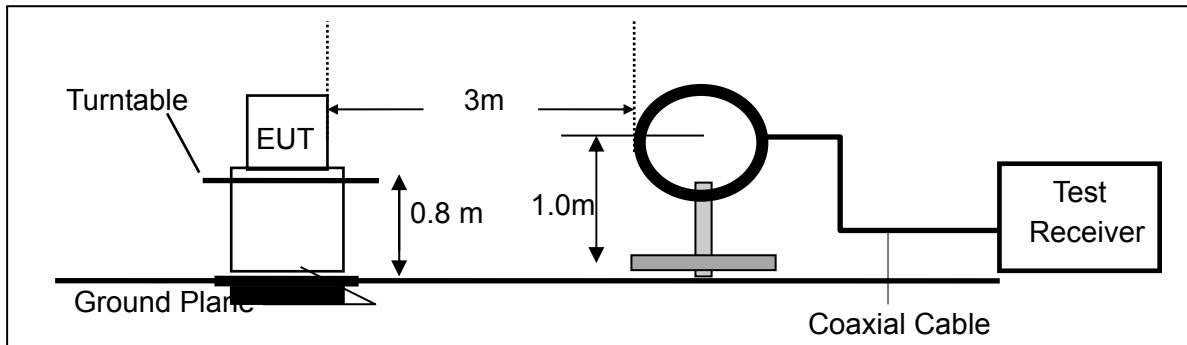
Limit line=Specific limits(dBuV) + distance extrapolation factor.

3.2.3 MEASURING INSTRUMENTS

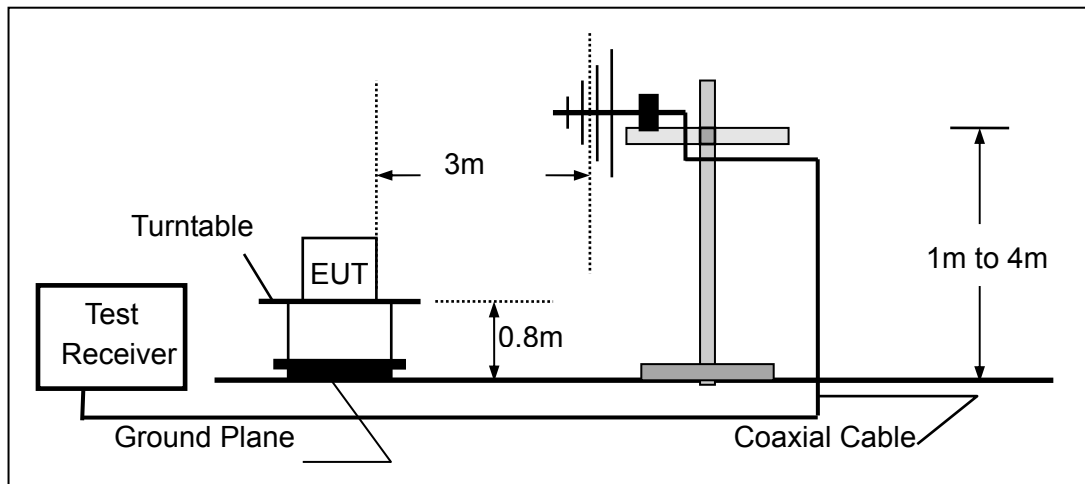
The Measuring equipment is listed in the section 6.3 of this test report.

3.2.4 TEST CONFIGURATION

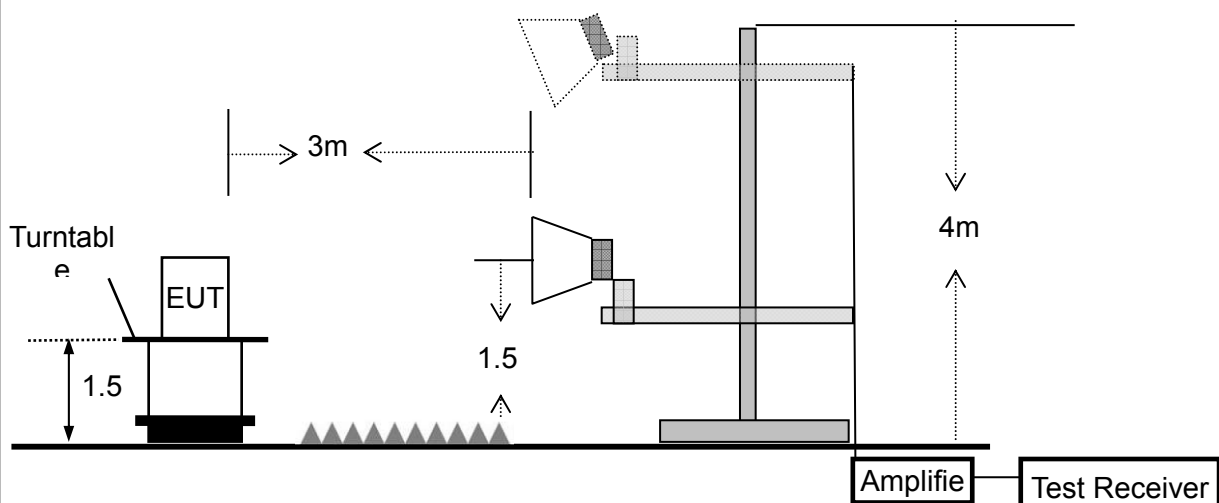
(a) For radiated emissions below 30MHz



(b) For radiated emissions from 30MHz to 1000MHz



(c) For radiated emissions above 1000MHz



3.2.5 TEST PROCEDURE

The test site semi-anechoic chamber has met the requirement of NSA tolerance 4 dB according to the standards: ANSI C63.10-2013. The test distance is 3m. The setup is according to the requirements in Section 13.1.4.1 of ANSI C63.10-2013 and CAN/CSA-CEI/IEC CISPR 22.

This test is required for any spurious emission that falls in a Restricted Band, as defined in Section 15.205. It must be performed with the highest gain of each type of antenna proposed for use with the EUT.

Use the following spectrum analyzer settings:

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB / VB (emission in restricted band)	1 MHz / 1 MHz for Peak, 1 MHz / 10Hz for Average

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

- The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- The EUT was placed on the top of a rotating table 0.8 m for below 1GHz and 1.5m for above 1GHz the ground at a 3 meter. The table was rotated 360 degrees to determine the position of the highest radiation.
- The height of the equipment or of the substitution antenna shall be 0.8 m for below 1GHz and 1.5m for above 1GHz; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

Note:

Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

During the radiated emission test, the Spectrum Analyzer was set with the following configurations:

Frequency Band (MHz)	Function	Resolution bandwidth	Video Bandwidth
30 to 1000	QP	120 kHz	300 kHz
Above 1000	Peak	1 MHz	1 MHz
	Average	1 MHz	10 Hz

Note: for the frequency ranges below 30 MHz, a narrower RBW is used for these ranges but the measured value should add a RBW correction factor (RBWCF) where $RBWCF [dB] = 10 \cdot \lg(100 [kHz] / \text{narrower RBW [kHz]})$. , the narrower RBW is 1 kHz and RBWCF is 20 dB for the frequency 9 kHz to 150 kHz, and the narrower RBW is 10 kHz and RBWCF is 10 dB for the frequency 150 kHz to 30 MHz.

3.2.6 TEST RESULTS (9KHZ – 30 MHZ)

EUT :	Wi-Fi/Bluetooth Module	Model Name :	AP6275S
Temperature :	26 °C	Relative Humidity :	54%
Pressure:	1010 hPa	Test Voltage :	DC 3.3V
Test Mode :	TX	Polarization :	--

Freq.	Reading	Limit	Margin	State
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	P/F
--	--	--	--	N/A
--	--	--	--	N/A

NOTE:

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

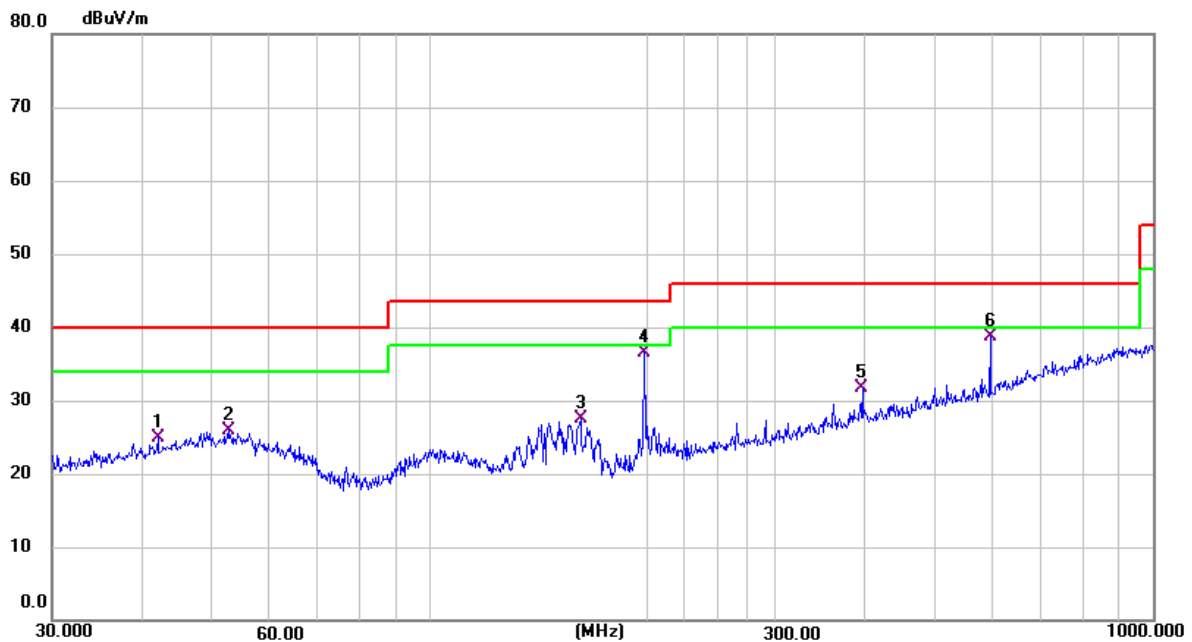
3.2.7 TEST RESULTS (30MHZ – 1GHZ)

EUT :	Wi-Fi/Bluetooth Module	Model Name :	AP6275S
Temperature :	25.3℃	Relative Humidity :	53%
Pressure :	1010 hPa	Test Voltage :	DC 3.3V
Test Mode :	TX(5.2G WIFI)- 802.11ac20 (Mid CH)		

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	42.0066	5.90	18.94	24.84	40.00	-15.16	QP
V	52.5753	6.39	19.50	25.89	40.00	-14.11	QP
V	161.4740	12.42	15.12	27.54	43.50	-15.96	QP
V	197.8928	18.60	18.00	36.60	43.50	-6.90	QP
V	396.2412	8.90	22.87	31.77	46.00	-14.23	QP
V	595.1329	12.51	26.15	38.66	46.00	-7.34	QP

Remark:

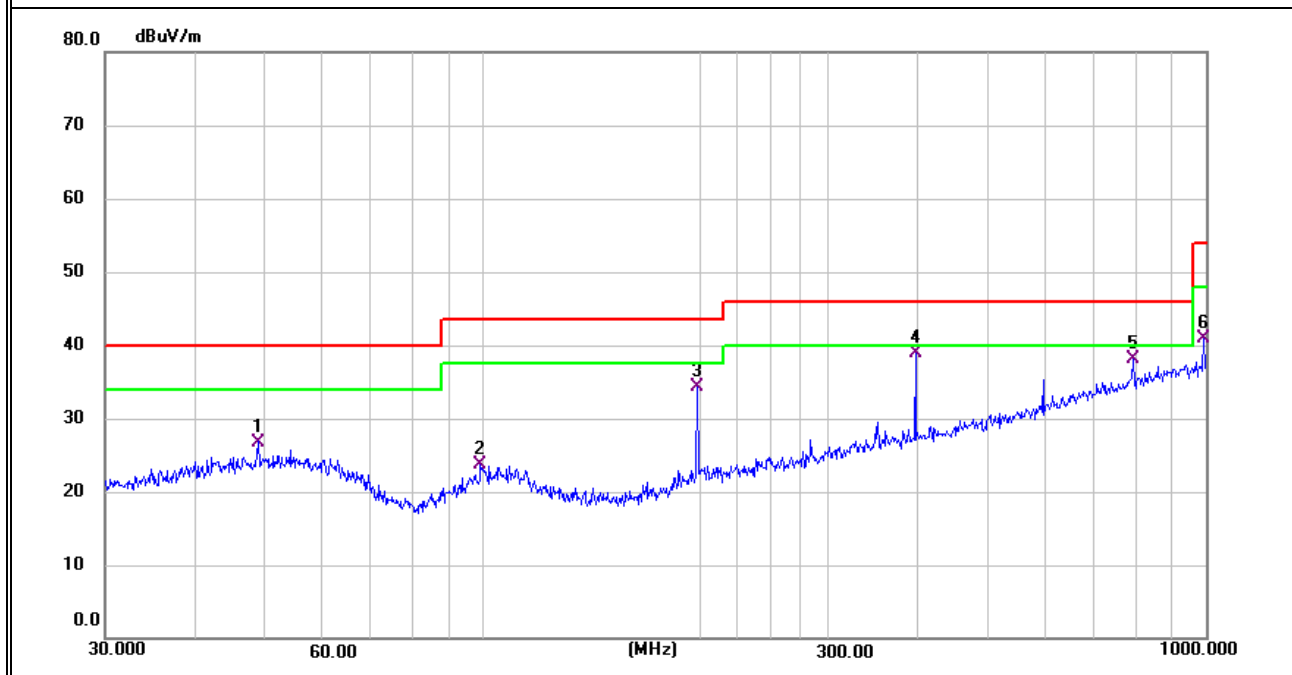
Emission Level= ReadingLevel+ Factor, Margin= Emission Level - Limit



Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
H	48.8429	7.05	19.75	26.80	40.00	-13.20	QP
H	99.1797	5.89	17.88	23.77	43.50	-19.73	QP
H	197.8928	16.34	18.00	34.34	43.50	-9.16	QP
H	396.2415	15.97	22.87	38.84	46.00	-7.16	QP
H	793.3960	8.53	29.65	38.18	46.00	-7.82	QP
H	993.0114	9.02	31.89	40.91	54.00	-13.09	QP

Remark:

Emission Level= ReadingLevel+ Factor, Margin= Emission Level - Limit



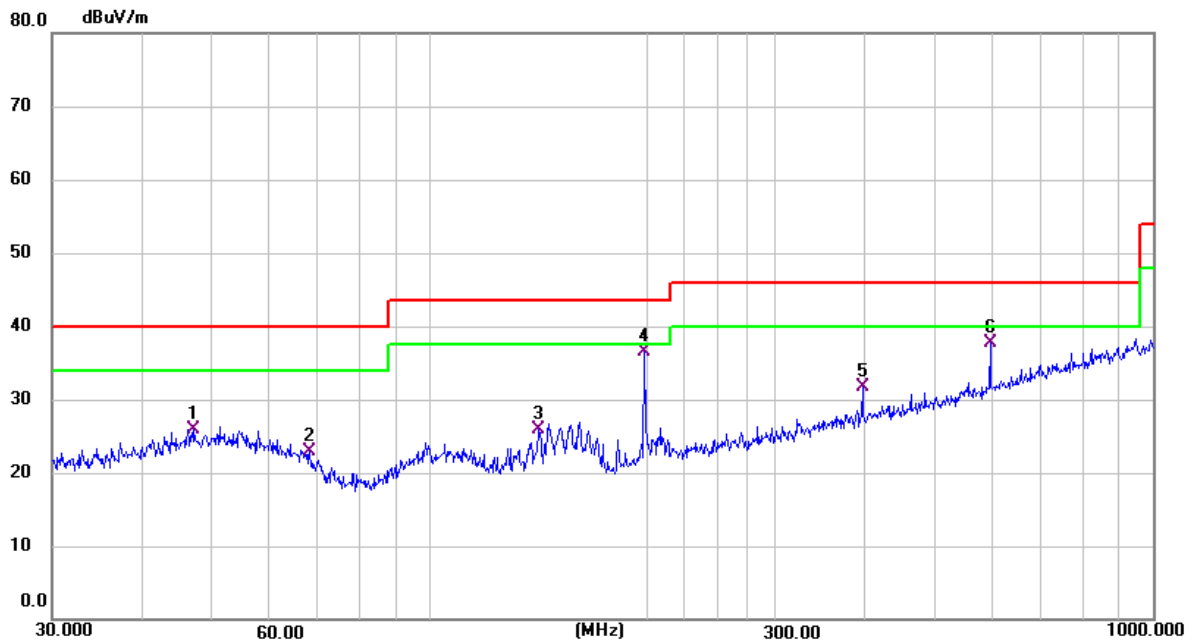
Note: All modes have been tested, just the worst mode has been recorded in the report.
Antenna 1 and Antenna 2 have been tested, and the report shows the worst antenna 1 data.

EUT :	Wi-Fi/Bluetooth Module	Model Name :	AP6275S
Temperature :	25.3 °C	Relative Humidity :	53%
Pressure :	1010 hPa	Test Voltage :	DC 3.3V
Test Mode :	TX(5.3G WIFI)- 802.11ac20 (Low CH)		

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	47.1599	6.26	19.67	25.93	40.00	-14.07	QP
V	68.1514	6.17	16.83	23.00	40.00	-17.00	QP
V	141.3298	11.43	14.38	25.81	43.50	-17.69	QP
V	197.8928	18.54	18.00	36.54	43.50	-6.96	QP
V	396.2415	8.92	22.87	31.79	46.00	-14.21	QP
V	595.1329	11.56	26.15	37.71	46.00	-8.29	QP

Remark:

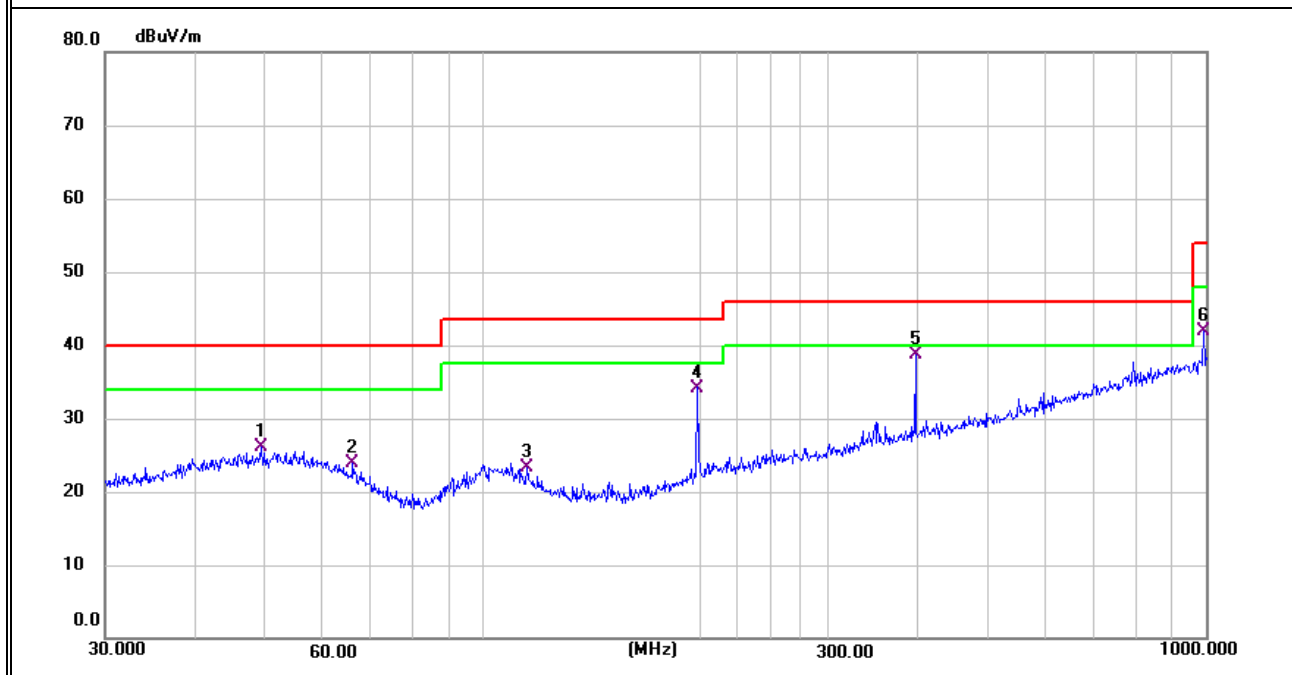
Emission Level= ReadingLevel+ Factor, Margin= Emission Level - Limit



Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
H	49.3594	6.36	19.74	26.10	40.00	-13.90	QP
H	66.0342	6.53	17.47	24.00	40.00	-16.00	QP
H	114.9168	6.32	17.03	23.35	43.50	-20.15	QP
H	197.8928	16.20	18.00	34.20	43.50	-9.30	QP
H	396.2415	15.90	22.87	38.77	46.00	-7.23	QP
H	993.0113	10.06	31.89	41.95	54.00	-12.05	QP

Remark:

Emission Level= ReadingLevel+ Factor, Margin= Emission Level - Limit



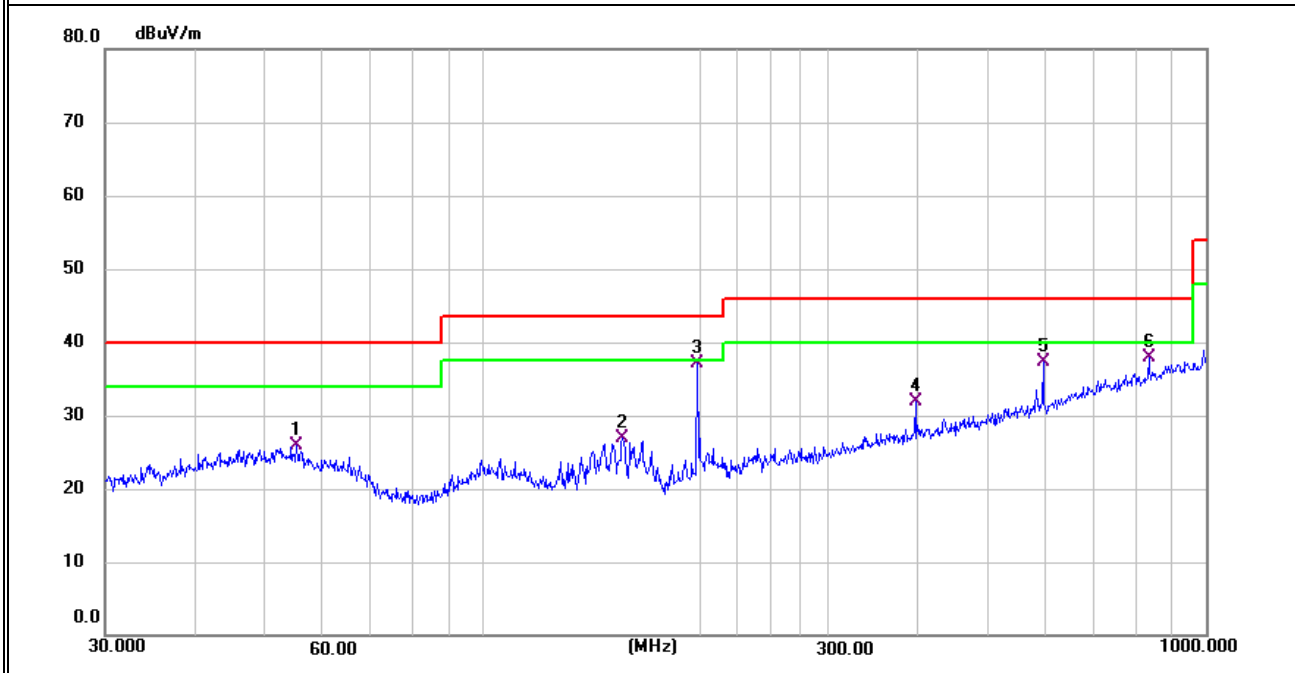
Note: All modes have been tested, just the worst mode has been recorded in the report.
Antenna 1 and Antenna 2 have been tested, and the report shows the worst antenna 1 data

EUT :	Wi-Fi/Bluetooth Module	Model Name :	AP6275S
Temperature :	25.3 °C	Relative Humidity :	53%
Pressure :	1010 hPa	Test Voltage :	DC 3.3V
Test Mode :	TX(5.6G WIFI)- 802.11n20 (Mid CH)		

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	55.2207	6.40	19.49	25.89	40.00	-14.11	QP
V	155.9101	12.16	14.80	26.96	43.50	-16.54	QP
V	197.8928	19.15	18.00	37.15	43.50	-6.35	QP
V	396.2415	8.97	22.87	31.84	46.00	-14.16	QP
V	595.1329	11.23	26.15	37.38	46.00	-8.62	QP
V	833.3171	7.72	30.10	37.82	46.00	-8.18	QP

Remark:

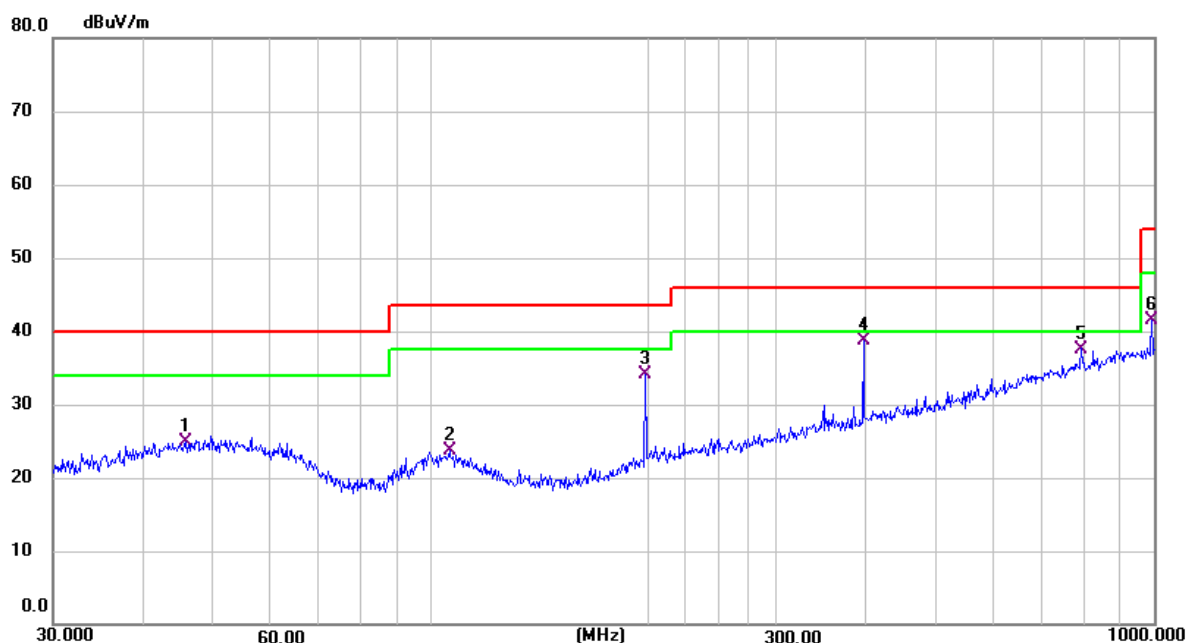
Emission Level= ReadingLevel+ Factor, Margin= Emission Level - Limit



Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
H	45.8553	5.30	19.63	24.93	40.00	-15.07	QP
H	106.0126	5.43	18.20	23.63	43.50	-19.87	QP
H	197.8928	16.10	18.00	34.10	43.50	-9.40	QP
H	396.2415	15.93	22.87	38.80	46.00	-7.20	QP
H	793.3960	7.95	29.65	37.60	46.00	-8.40	QP
H	993.0114	9.56	31.89	41.45	54.00	-12.55	QP

Remark:

Emission Level= ReadingLevel+ Factor, Margin= Emission Level - Limit



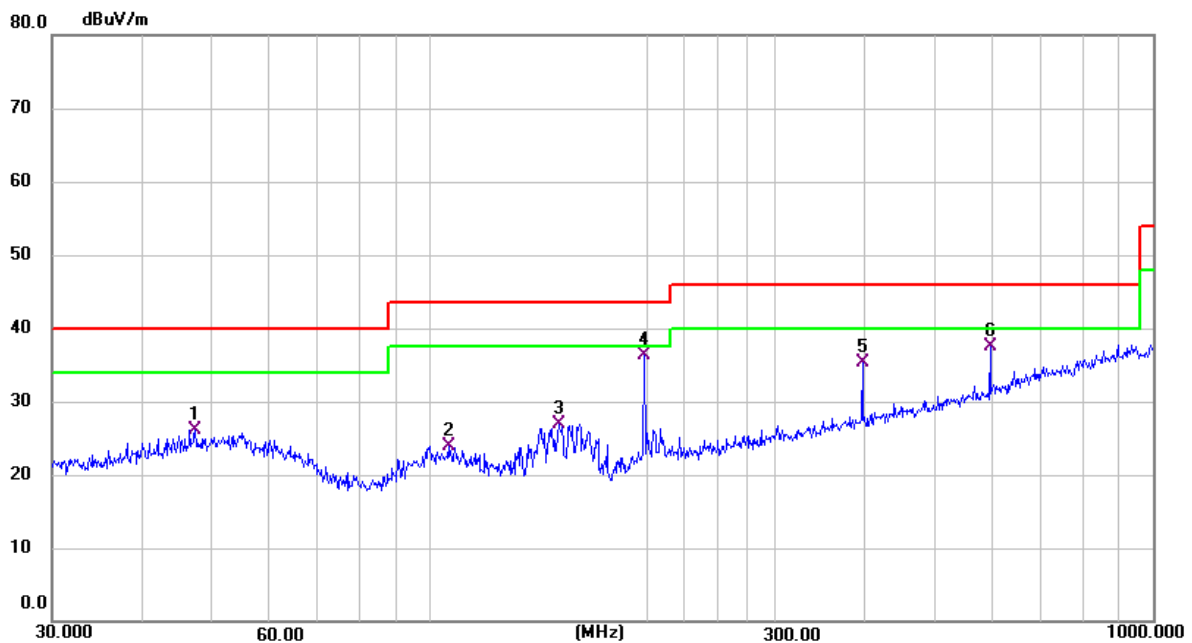
Note: All modes have been tested, just the worst mode has been recorded in the report.
Antenna 1 and Antenna 2 have been tested, and the report shows the worst antenna 1 data

EUT :	Wi-Fi/Bluetooth Module	Model Name :	AP6275S
Temperature :	25.3 °C	Relative Humidity :	53%
Pressure :	1010 hPa	Test Voltage :	DC 3.3V
Test Mode :	TX(5.8G WIFI)- 802.11n20(Mid CH)		

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	47.3255	6.43	19.67	26.10	40.00	-13.90	QP
V	106.0126	5.71	18.20	23.91	43.50	-19.59	QP
V	150.5378	12.37	14.60	26.97	43.50	-16.53	QP
V	197.8928	18.32	18.00	36.32	43.50	-7.18	QP
V	396.2415	12.36	22.87	35.23	46.00	-10.77	QP
V	595.1329	11.35	26.15	37.50	46.00	-8.50	QP

Remark:

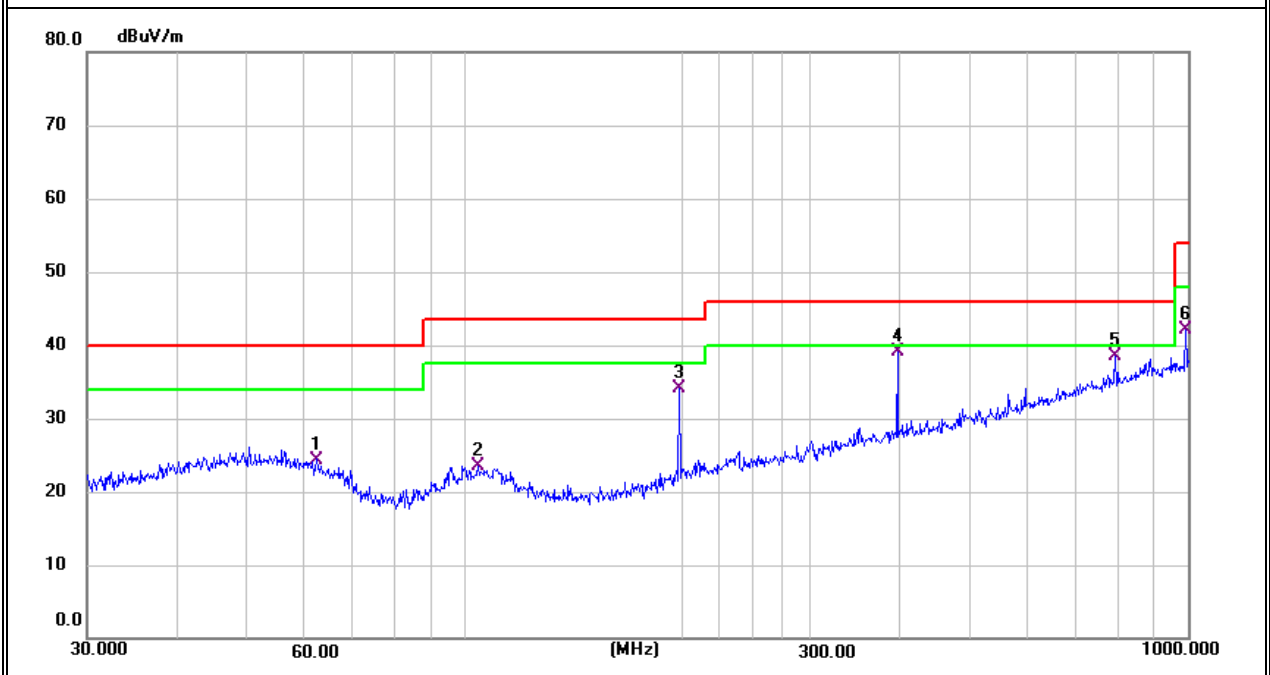
Emission Level= ReadingLevel+ Factor, Margin= Emission Level - Limit



Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
H	62.4314	5.74	18.51	24.25	40.00	-15.75	QP
H	104.1701	5.45	18.12	23.57	43.50	-19.93	QP
H	197.8928	16.14	18.00	34.14	43.50	-9.36	QP
H	396.2415	16.32	22.87	39.19	46.00	-6.81	QP
H	793.3960	8.83	29.65	38.48	46.00	-7.52	QP
H	993.0114	10.12	31.89	42.01	54.00	-11.99	QP

Remark:

Emission Level= ReadingLevel+ Factor, Margin= Emission Level - Limit



Note: All modes have been tested, just the worst mode has been recorded in the report.
Antenna 1 and Antenna 2 have been tested, and the report shows the worst antenna 1 data

3.2.8 TEST RESULTS (1GHz-18GHz)

EUT :	Wi-Fi/Bluetooth Module	Model Name. :	AP6275S
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.3V
Test Mode :	TX(5.2G) - 802.11ac20		

Polar	Frequency	Meter Reading	Cable loss	Antenna Factor	Preamplifier Factor	Emission Level	Limits	Margin	Detector Type
(H/V)	(MHz)	(dBuV)	(dB)	dB/m	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5180 MHz)-Above 1G									
Vertical	3694.10	60.08	5.94	35.40	44.00	57.42	74.00	-16.58	Pk
Vertical	3694.10	39.04	5.94	35.40	44.00	36.38	54.00	-17.62	AV
Vertical	10360.15	58.36	8.46	39.75	44.50	62.07	68.20	-6.13	Pk
Vertical	15540.22	60.25	10.12	38.80	44.10	65.07	74.00	-8.93	Pk
Vertical	15540.22	40.89	10.12	38.80	42.70	47.11	54.00	-6.89	AV
Horizontal	3713.00	59.57	5.94	35.18	44.00	56.69	74.00	-17.31	Pk
Horizontal	3713.00	40.90	5.94	35.18	44.00	38.02	54.00	-15.98	AV
Horizontal	10360.47	59.49	8.46	38.71	44.50	62.16	68.20	-6.04	Pk
Horizontal	15540.38	59.70	10.12	38.38	44.10	64.10	74.00	-9.90	Pk
Horizontal	15540.38	40.60	10.12	38.38	44.10	45.00	54.00	-9.00	AV
Middle Channel (5200 MHz)-Above 1G									
Vertical	3624.13	59.81	6.48	36.35	44.05	58.59	74.00	-15.41	Pk
Vertical	3624.13	39.45	6.48	36.35	44.05	38.23	54.00	-15.77	AV
Vertical	10400.09	60.84	8.47	37.88	44.51	62.68	68.20	-5.52	Pk
Vertical	15600.15	60.67	10.12	38.80	44.10	65.49	74.00	-8.51	Pk
Vertical	15600.15	40.83	10.12	38.80	42.70	47.05	54.00	-6.95	AV
Horizontal	4202.14	59.51	6.48	36.37	44.05	58.31	74.00	-15.69	Pk
Horizontal	4202.14	39.81	6.48	36.37	44.05	38.61	54.00	-15.39	AV
Horizontal	10400.14	60.56	8.47	38.64	44.50	63.17	68.20	-5.03	Pk
Horizontal	15600.51	60.37	10.12	38.38	44.10	64.77	74.00	-9.23	Pk
Horizontal	15600.51	39.45	10.12	38.38	44.10	43.85	54.00	-10.15	AV
High Channel (5240 MHz)-Above 1G									
Vertical	4597.70	59.69	7.10	37.24	43.50	60.53	74.00	-13.47	Pk
Vertical	4597.70	39.19	7.10	37.24	43.50	40.03	54.00	-13.97	AV
Vertical	10480.23	60.85	8.46	37.68	44.50	62.49	68.20	-5.71	Pk
Vertical	15720.15	60.30	10.12	38.80	44.10	65.12	74.00	-8.88	Pk
Vertical	15720.15	39.55	10.12	38.80	42.70	45.77	54.00	-8.23	AV
Horizontal	4589.26	59.43	7.10	37.24	43.50	60.27	74.00	-13.73	Pk
Horizontal	4589.26	40.26	7.10	37.24	43.50	41.10	54.00	-12.90	AV
Horizontal	10480.59	59.69	8.46	38.57	44.50	62.22	68.20	-5.98	Pk
Horizontal	15720.18	59.43	10.12	38.38	44.10	63.83	74.00	-10.17	Pk
Horizontal	15720.18	40.21	10.12	38.38	44.10	44.61	54.00	-9.39	AV

Note: "802.11ac20 (5.2G)" mode is the worst mode. PK value is lower than the Average value limit, So average didn't record. The amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Antenna 1 and Antenna 2 have been tested, and the report shows the worst antenna 1 data

EUT :	Wi-Fi/Bluetooth Module	Model Name. :	AP6275S
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.3V
Test Mode :	TX(5.3G) - 802.11ac20		

Polar	Frequency	Meter Reading	Cable loss	Antenna Factor	Preamp Factor	Emission Level	Limits	Margin	Detector Type
(H/V)	(MHz)	(dBuV)	(dB)	dB/m	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5260 MHz)-Above 1G									
Vertical	4633.25	59.13	5.44	35.40	44.00	55.97	74.00	-18.03	Pk
Vertical	4633.25	40.19	5.74	35.40	44.00	37.33	54.00	-16.67	AV
Vertical	10520.12	59.02	8.26	39.75	44.50	62.53	68.20	-5.67	Pk
Vertical	15780.34	60.26	10.12	38.80	44.10	65.08	74.00	-8.92	Pk
Vertical	15780.34	40.59	9.62	38.80	42.70	46.31	54.00	-7.69	AV
Horizontal	4366.15	59.38	5.57	35.18	44.00	56.13	74.00	-17.87	Pk
Horizontal	4366.15	39.91	5.74	35.18	44.00	36.82	54.00	-17.18	AV
Horizontal	10520.26	59.40	8.38	38.71	44.50	62.00	68.20	-6.20	Pk
Horizontal	15780.34	60.30	9.88	38.38	44.10	64.45	74.00	-9.55	Pk
Horizontal	15780.34	39.94	9.94	38.38	44.10	44.16	54.00	-9.84	AV
Middle Channel (5280 MHz)-Above 1G									
Vertical	4122.34	59.18	6.08	36.35	44.05	57.56	74.00	-16.44	Pk
Vertical	4122.34	40.65	6.39	36.35	44.05	39.34	54.00	-14.66	AV
Vertical	10560.19	60.12	8.28	37.88	44.51	61.78	68.20	-6.42	Pk
Vertical	15840.36	60.20	9.79	38.8	44.10	64.69	74.00	-9.31	Pk
Vertical	15840.36	39.47	9.70	38.8	42.70	45.27	54.00	-8.73	AV
Horizontal	3869.48	60.10	6.11	36.37	44.05	58.53	74.00	-15.47	Pk
Horizontal	3869.48	39.39	6.27	36.37	44.05	37.99	54.00	-16.01	AV
Horizontal	10560.74	59.10	8.33	38.64	44.50	61.57	68.20	-6.63	Pk
Horizontal	15840.37	59.59	9.99	38.38	44.10	63.86	74.00	-10.14	Pk
Horizontal	15840.37	39.85	9.81	38.38	44.10	43.94	54.00	-10.06	AV
High Channel (5320 MHz)-Above 1G									
Vertical	5366.52	60.28	6.96	37.24	43.50	60.98	74.00	-13.02	Pk
Vertical	5366.52	40.29	7.07	37.24	43.50	41.10	54.00	-12.90	AV
Vertical	10640.58	59.29	8.14	37.68	44.50	60.61	74.00	-13.39	Pk
Vertical	10640.58	39.78	8.35	37.68	44.50	41.32	54.00	-12.68	AV
Vertical	15960.41	40.28	10.11	38.8	44.10	45.09	74.00	-28.91	Pk
Vertical	15960.41	40.81	9.64	38.8	42.70	46.55	54.00	-7.45	AV
Horizontal	5436.59	59.30	7.05	37.24	43.50	60.09	74.00	-13.91	Pk
Horizontal	5436.59	39.19	7.05	37.24	43.50	39.97	54.00	-14.03	AV
Horizontal	10640.24	60.80	8.20	38.57	44.50	63.07	74.00	-10.93	Pk
Horizontal	10640.24	39.17	8.03	38.57	44.50	41.27	54.00	-12.73	AV
Horizontal	15960.88	49.62	9.81	38.38	44.10	53.71	74.00	-20.29	Pk
Horizontal	15960.88	39.24	9.96	38.38	44.10	43.48	54.00	-10.52	AV

Note: 802.11ac20 (5.3G) mode is the worst mode. PK value is lower than the Average value limit, So average didn't record.
The amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Antenna 1 and Antenna 2 have been tested, and the report shows the worst antenna 1 data

EUT :	Wi-Fi/Bluetooth Module	Model Name. :	AP6275S
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.3V
Test Mode :	TX(5.6G) - 802.11n20		

Polar	Frequency	Meter Reading	Cable loss	Antenna Factor	Preamplifier Factor	Emission Level	Limits	Margin	Detector Type
(H/V)	(MHz)	(dBuV)	(dB)	(dB/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5500 MHz)-Above 1G									
Vertical	5433.02	60.41	5.61	35.40	44.00	57.42	74.00	-16.58	Pk
Vertical	5433.02	50.60	5.76	35.40	44.00	47.76	54.00	-6.24	AV
Vertical	11000.25	59.81	8.24	39.75	44.50	63.31	74.00	-10.69	Pk
Vertical	11000.25	40.78	8.35	39.75	44.50	44.38	54.00	-9.62	AV
Vertical	16500.41	59.87	10.05	38.80	44.10	64.62	68.20	-3.58	Pk
Horizontal	5126.47	59.56	5.78	35.18	44.00	56.52	74.00	-17.48	Pk
Horizontal	5126.47	50.22	5.66	35.18	44.00	47.06	54.00	-6.94	AV
Horizontal	11000.32	59.23	8.22	38.71	44.50	61.66	74.00	-12.34	Pk
Horizontal	11000.32	39.91	8.14	38.71	44.50	42.26	54.00	-11.74	AV
Horizontal	16500.47	57.26	10.04	38.38	44.10	61.57	68.20	-6.63	Pk
Middle Channel (5600 MHz)-Above 1G									
Vertical	4933.25	60.95	6.29	36.35	44.05	59.53	74.00	-14.47	Pk
Vertical	4933.25	49.30	6.24	36.35	44.05	47.84	54.00	-6.16	AV
Vertical	11200.58	59.78	8.24	37.88	44.51	61.40	74.00	-12.60	Pk
Vertical	11200.58	39.85	8.13	37.88	44.51	41.35	54.00	-12.65	AV
Vertical	16800.45	59.49	9.71	38.80	44.10	63.90	68.20	-4.30	Pk
Horizontal	4766.32	59.55	6.44	36.37	44.05	58.32	74.00	-15.68	Pk
Horizontal	4766.32	50.14	6.13	36.37	44.05	48.59	54.00	-5.41	AV
Horizontal	11200.45	61.00	8.31	38.64	44.50	63.45	74.00	-10.55	Pk
Horizontal	11200.45	39.60	8.04	38.64	44.50	41.78	54.00	-12.22	AV
Horizontal	16800.33	56.50	10.09	38.38	44.10	60.86	68.20	-7.34	Pk
High Channel (5700 MHz)-Above 1G									
Vertical	5647.33	59.68	6.79	37.24	43.50	60.20	68.20	-8.00	Pk
Vertical	11400.29	60.34	8.10	37.68	44.50	61.62	74.00	-12.38	Pk
Vertical	11400.29	39.64	8.23	37.68	44.50	41.05	54.00	-12.95	AV
Vertical	17100.54	49.28	9.70	38.80	44.10	53.69	68.20	-14.51	Pk
Horizontal	5433.26	60.82	6.74	37.24	43.50	61.30	74.00	-12.70	Pk
Horizontal	5433.26	39.26	6.74	37.24	43.50	39.74	54.00	-14.26	AV
Horizontal	11400.43	50.20	8.25	38.57	44.50	52.52	74.00	-21.48	Pk
Horizontal	11400.43	39.62	8.35	38.57	44.50	42.04	54.00	-11.96	AV
Horizontal	17100.58	40.28	9.70	38.38	44.10	44.26	68.20	-23.94	Pk

Note: "802.11n20 (5.6G)" mode is the worst mode. PK value is lower than the Average value limit, So average didn't record.

The amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Antenna 1 and Antenna 2 have been tested, and the report shows the worst antenna 1 data

EUT :	Wi-Fi/Bluetooth Module	Model Name. :	AP6275S
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.3V
Test Mode :	TX (5.8G) -- 802.11n20		

Polar	Frequency	Meter Reading	Cable loss	Antenna Factor	Preamp Factor	Emission Level	Limits	Margin	Detector Type
(H/V)	(MHz)	(dBuV)	(dB)	dB/m	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5745 MHz)-Above 1G									
Vertical	5122.51	60.79	5.94	35.40	44.00	58.13	74.00	-15.87	Pk
Vertical	5122.51	39.37	5.94	35.40	44.00	36.71	54.00	-17.29	AV
Vertical	11490.60	60.92	8.46	39.75	44.50	64.63	74.00	-9.37	Pk
Vertical	11490.60	40.88	8.46	39.75	44.50	44.59	54.00	-9.41	AV
Vertical	17235.65	40.54	10.12	38.80	44.10	45.36	68.20	-22.84	Pk
Horizontal	5166.60	60.66	5.94	35.18	44.00	57.78	68.20	-10.42	Pk
Horizontal	11490.47	50.49	8.46	38.71	44.50	53.16	74.00	-20.84	Pk
Horizontal	11490.47	39.39	8.46	38.71	44.50	42.06	54.00	-11.94	AV
Horizontal	17235.47	56.28	10.12	38.38	44.10	60.68	68.20	-7.52	Pk
Middle Channel (5785 MHz)-Above 1G									
Vertical	5433.40	59.05	6.48	36.35	44.05	57.83	74.00	-16.17	Pk
Vertical	5433.40	40.98	6.48	36.35	44.05	39.76	54.00	-14.24	AV
Vertical	11570.41	59.96	8.47	37.88	44.51	61.80	74.00	-12.20	Pk
Vertical	11570.41	40.56	8.47	37.88	44.51	42.40	54.00	-11.60	AV
Vertical	17355.84	40.89	10.12	38.80	44.10	45.71	68.20	-22.49	Pk
Horizontal	4866.60	60.21	6.48	36.37	44.05	59.01	74.00	-14.99	Pk
Horizontal	4866.60	40.77	6.48	36.37	44.05	39.57	54.00	-14.43	AV
Horizontal	11570.28	59.55	8.47	38.64	44.50	62.16	74.00	-11.84	Pk
Horizontal	11570.28	39.54	8.47	38.64	44.50	42.15	54.00	-11.85	AV
Horizontal	17355.49	49.81	10.12	38.38	44.10	54.21	68.20	-13.99	Pk
High Channel (5825 MHz)-Above 1G									
Vertical	5244.48	59.13	7.10	37.24	43.50	59.97	68.20	-8.23	Pk
Vertical	11652.42	59.33	8.46	37.68	44.50	60.97	74.00	-13.03	Pk
Vertical	11652.42	40.26	8.46	37.68	44.50	41.90	54.00	-12.10	AV
Vertical	17473.74	49.56	10.12	38.80	44.10	54.38	68.20	-13.82	Pk
Horizontal	5285.29	60.18	7.10	37.24	43.50	61.02	68.20	-7.18	Pk
Horizontal	11652.67	60.89	8.46	38.57	44.50	63.42	74.00	-10.58	Pk
Horizontal	11652.67	39.95	8.46	38.57	44.50	42.48	54.00	-11.52	AV
Horizontal	17474.68	50.86	10.12	38.38	44.10	55.26	68.20	-12.94	Pk

Note:"802.11n20 (5.8G)" mode is the worst mode. PK value is lower than the Average value limit, So average didn't record.
The amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Antenna 1 and Antenna 2 have been tested, and the report shows the worst antenna 1 data

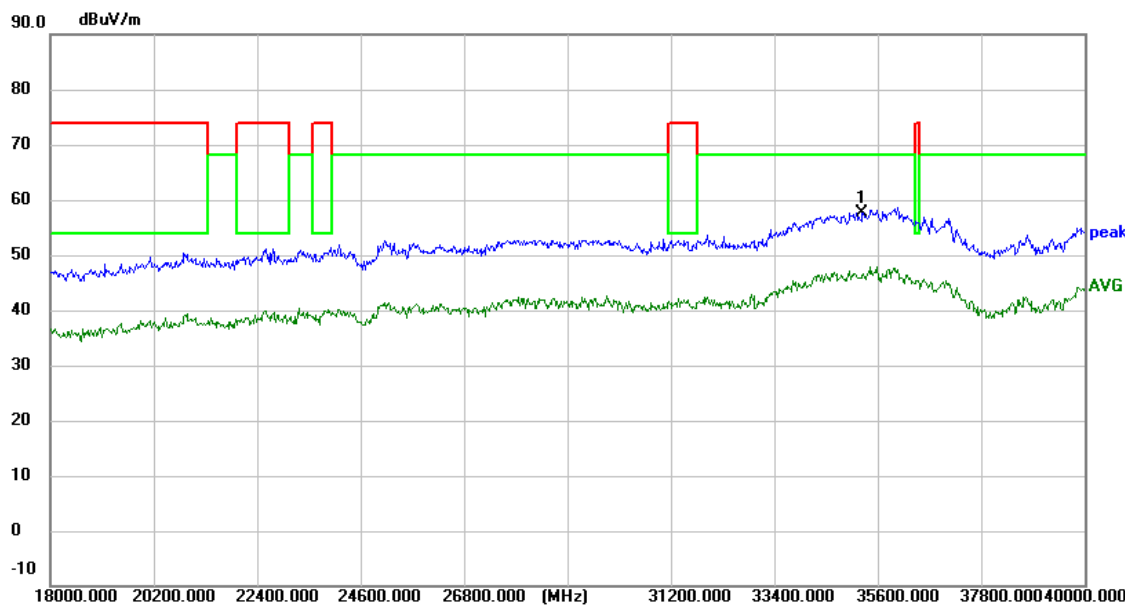
3.2.9 TEST RESULTS (18GHz-40GHz)

EUT :	Wi-Fi/Bluetooth Module	Model Name. :	AP6275S
Temperature :	25.3 °C	Relative Humidity :	52%
Pressure :	1010 hPa	Test Voltage :	DC 3.3V
Test Mode :	TX (5.2G)-802.11ac20;TX (5.3G)-802.11ac20 TX (5.6G)-802.11n20;TX (5.8G)-802.11n20		

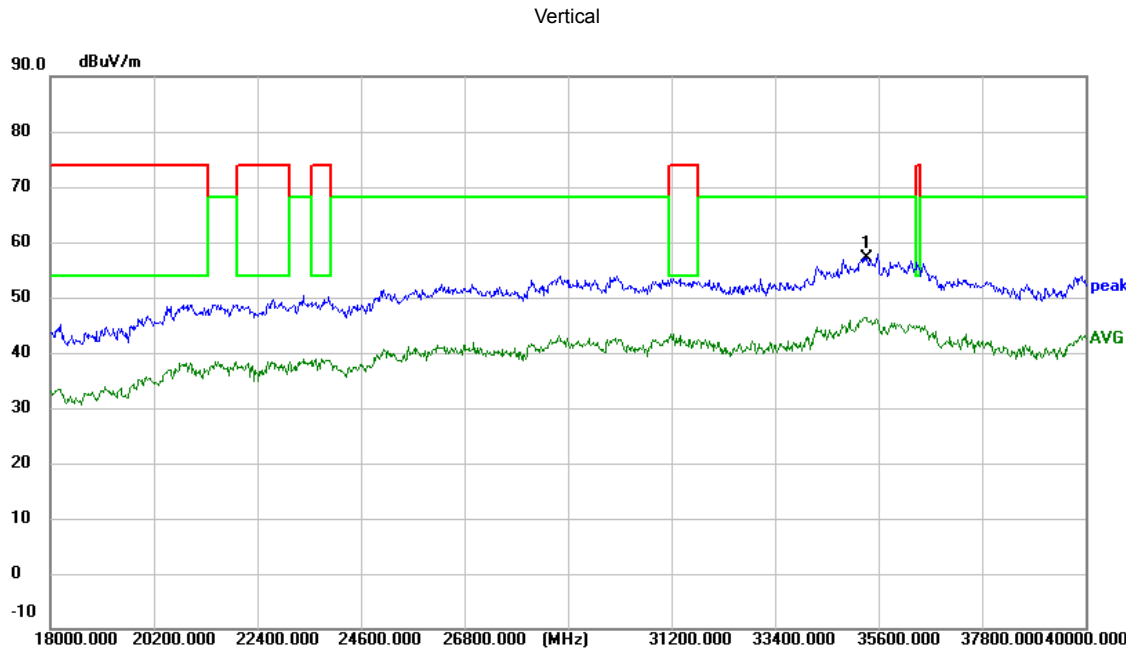
All the modulation modes have been tested, and the worst result was report as below:

Low Channel (5180 MHz)-Above 1G

Horizontal



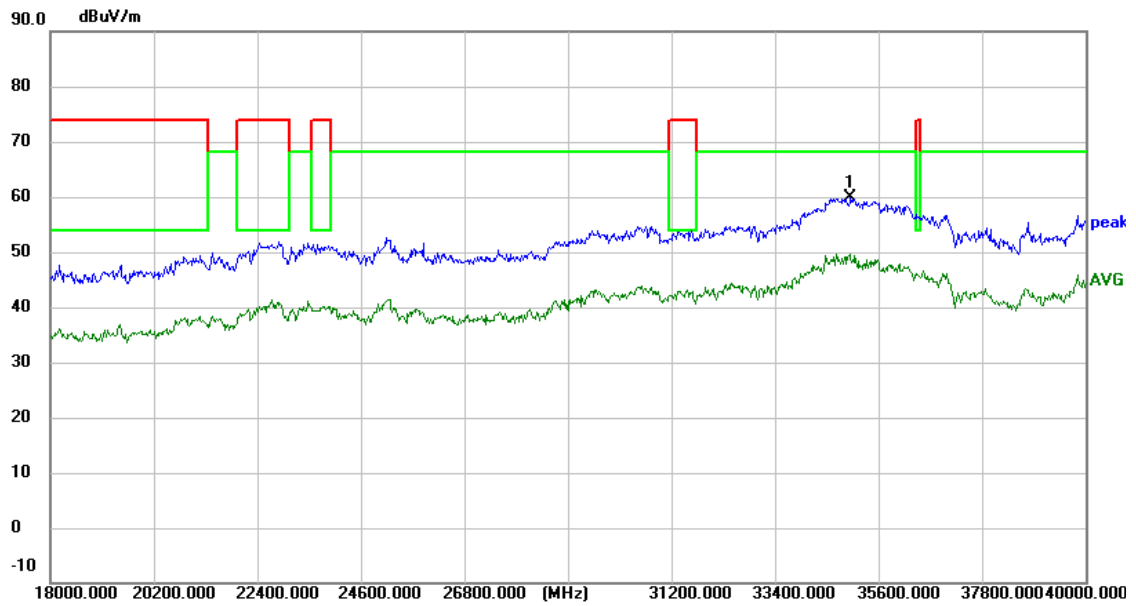
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
35304.467	54.82	2.84	57.66	68.20	-10.54	peak



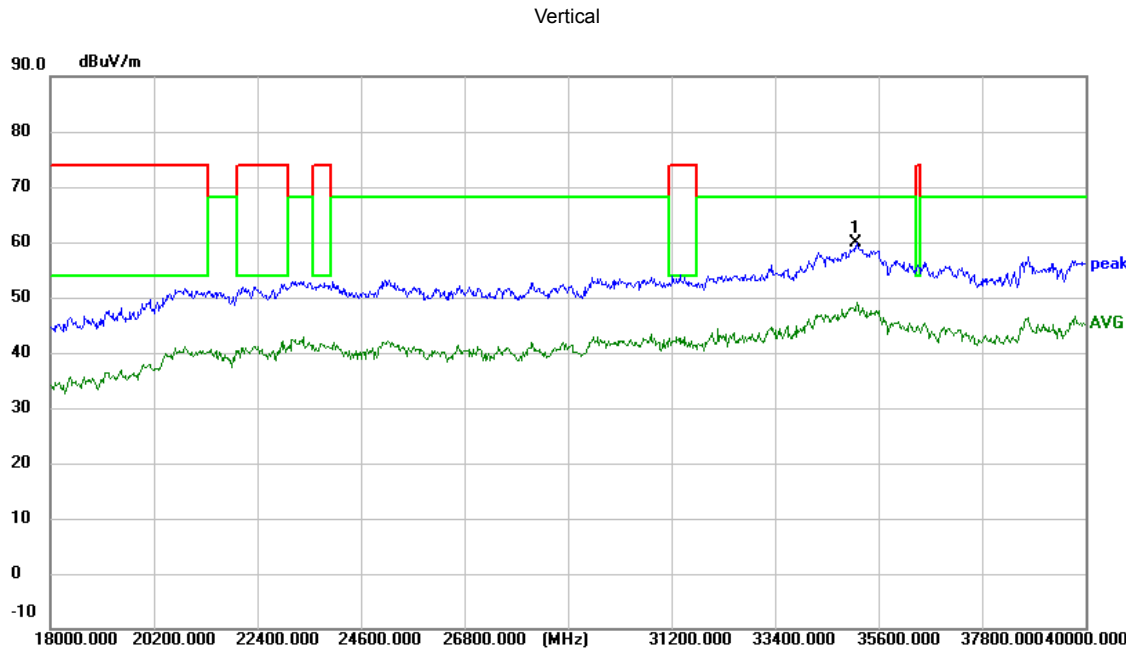
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
35379.267	54.45	2.77	57.22	68.20	-10.98	peak

High Channel (5240 MHz)-Above 1G

Horizontal



Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
35024.333	56.13	3.71	59.84	68.20	-8.36	peak



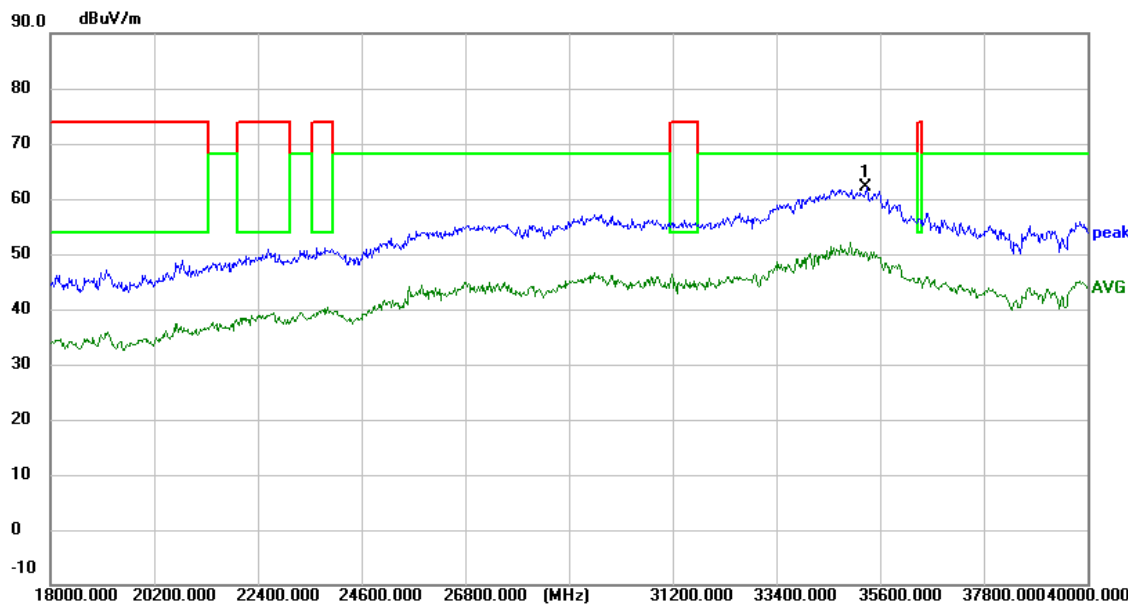
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
35158.533	56.77	3.21	59.98	68.20	-8.22	peak

Note: 802.11ac20 mode is the worst mode.

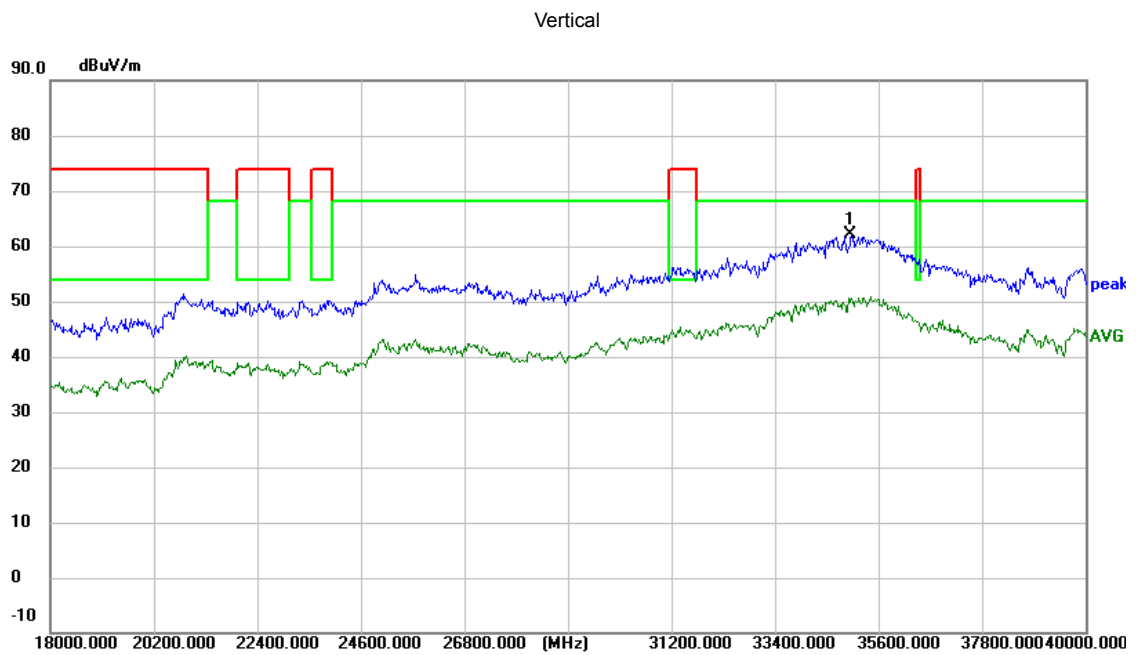
Antenna 1 and Antenna 2 have been tested, and the report shows the worst antenna 1 data

Low Channel (5260 MHz)-Above 1G

Horizontal



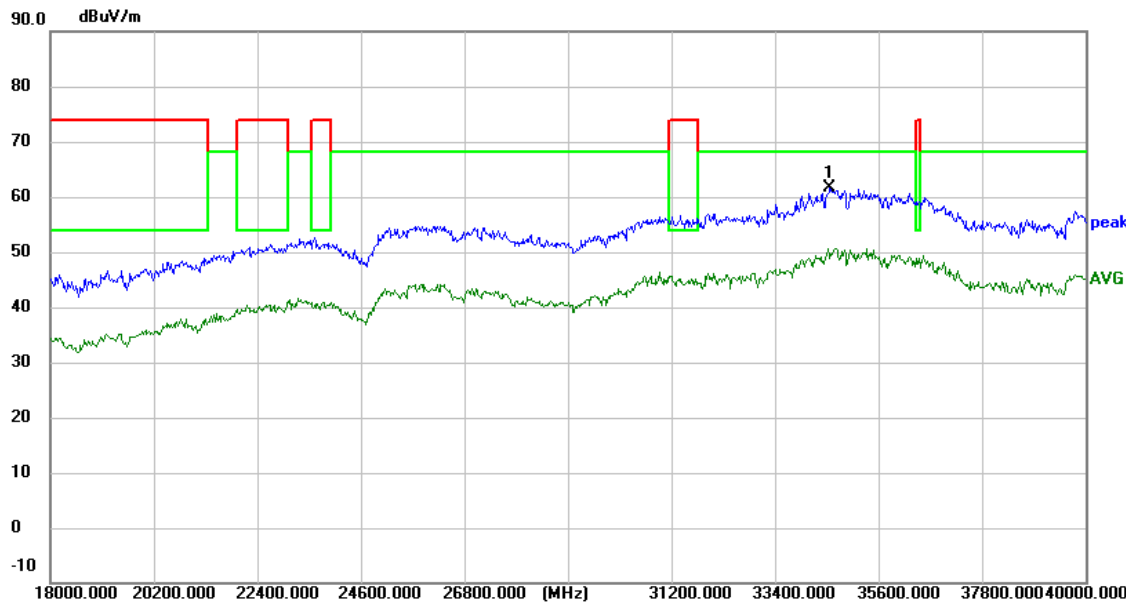
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
35319.133	59.37	2.82	62.19	68.20	-6.01	peak



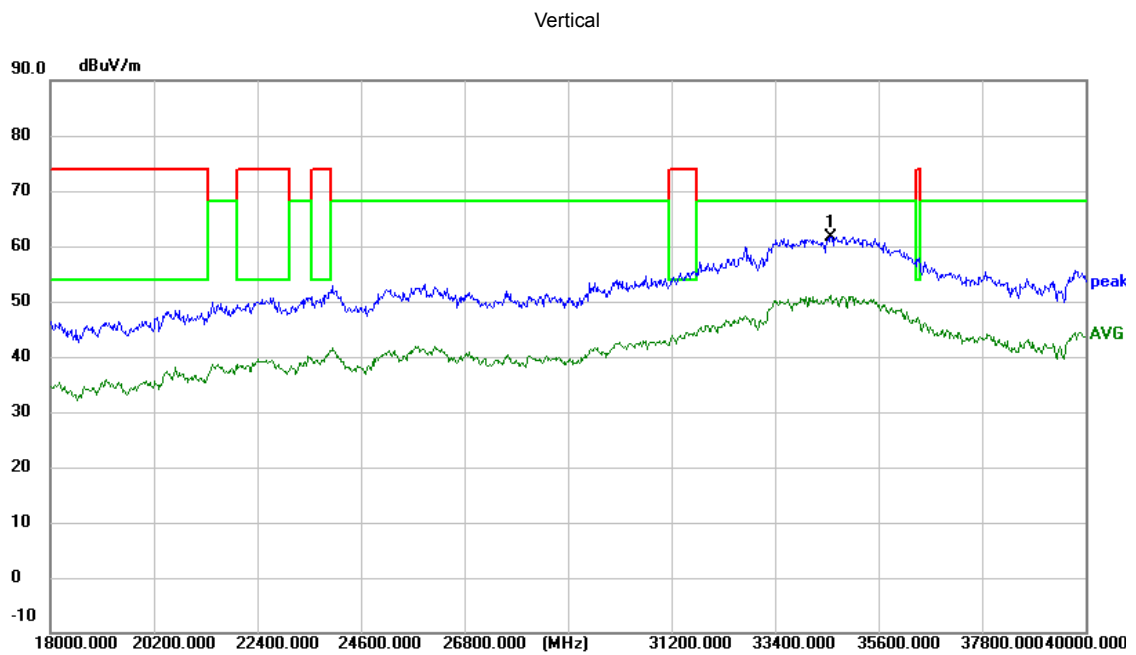
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
35033.133	58.56	3.67	62.23	68.20	-5.97	peak

High Channel (5320 MHz)-Above 1G

Horizontal



Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
34596.800	58.98	2.71	61.69	68.20	-6.51	peak



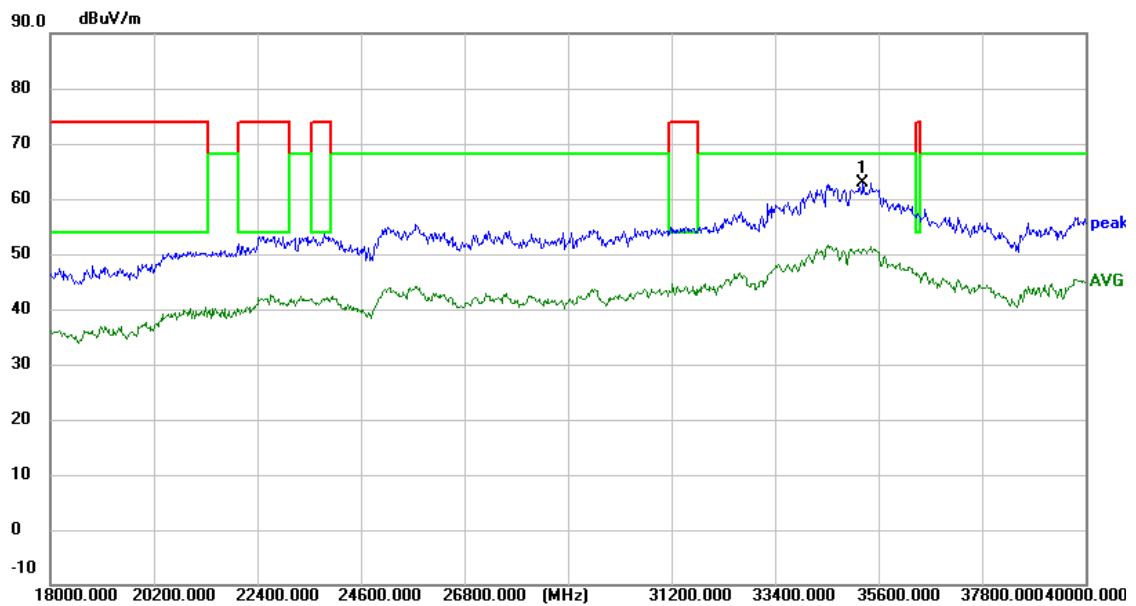
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
34605.600	58.98	2.73	61.71	68.20	-6.49	peak

Note: 802.11ac20 mode is the worst mode.

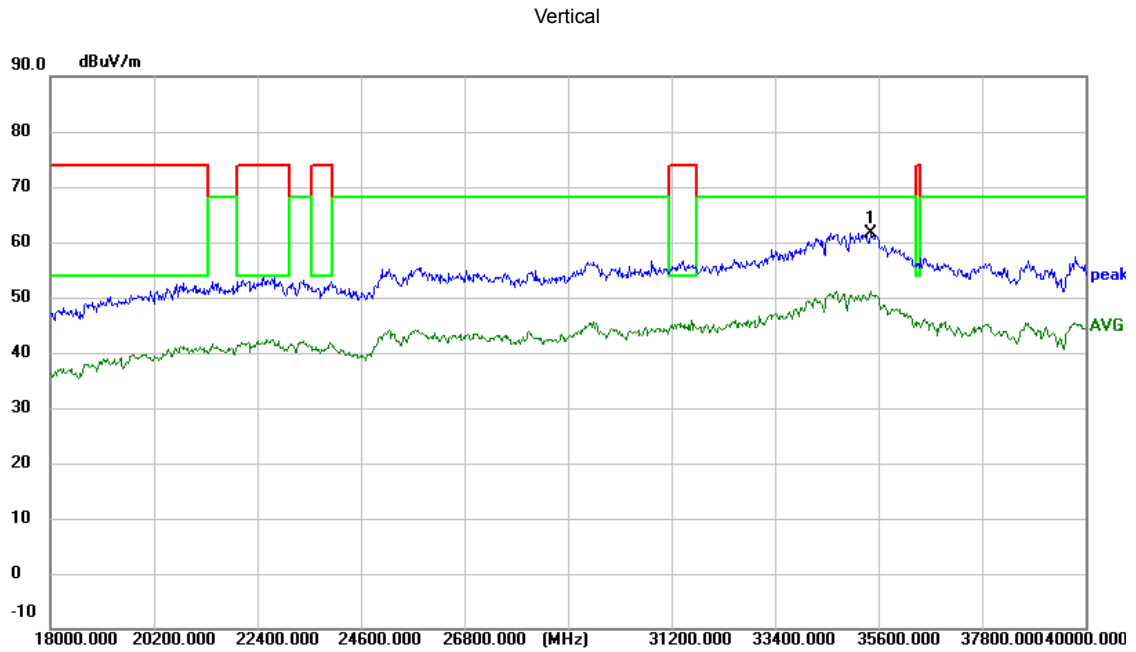
Antenna 1 and Antenna 2 have been tested, and the report shows the worst antenna 1 data

Low Channel (5500 MHz)-Above 1G

Horizontal



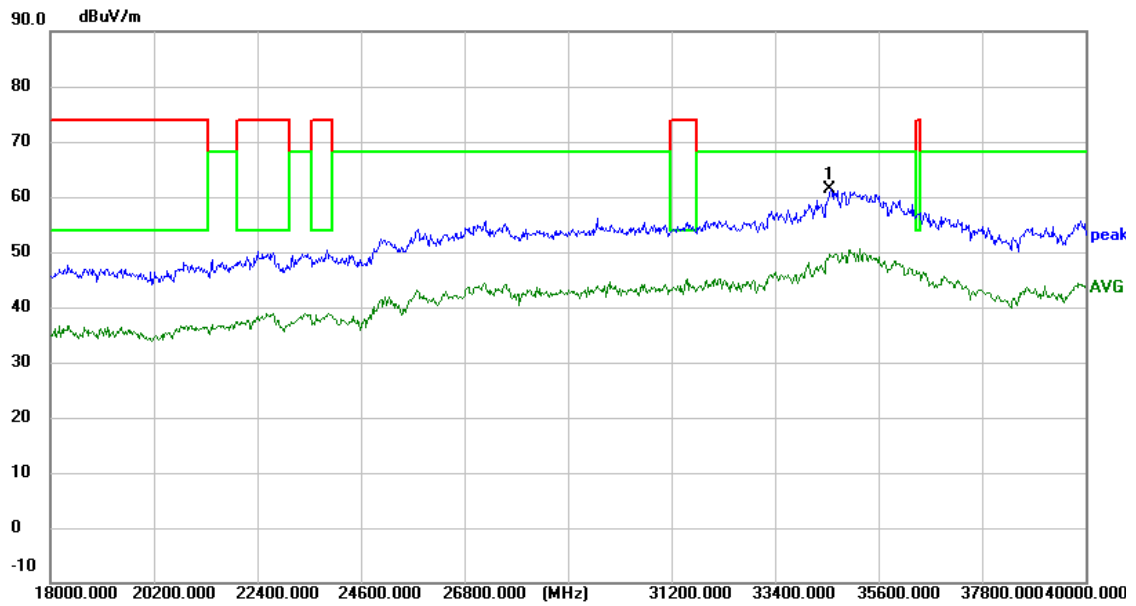
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
35302.267	59.92	2.84	62.76	68.20	-5.44	peak



Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
35455.533	59.03	2.71	61.74	68.20	-6.46	peak

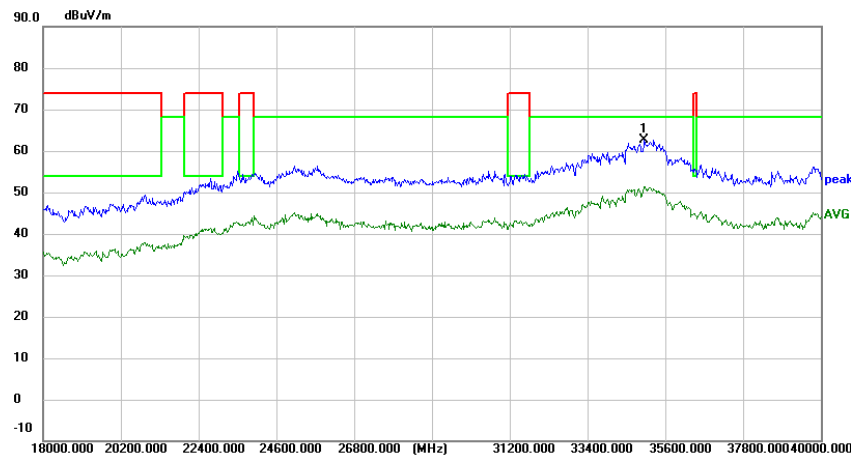
High Channel (5700 MHz)-Above 1G

Horizontal



Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
34597.533	58.74	2.71	61.45	68.20	-6.75	peak

Vertical



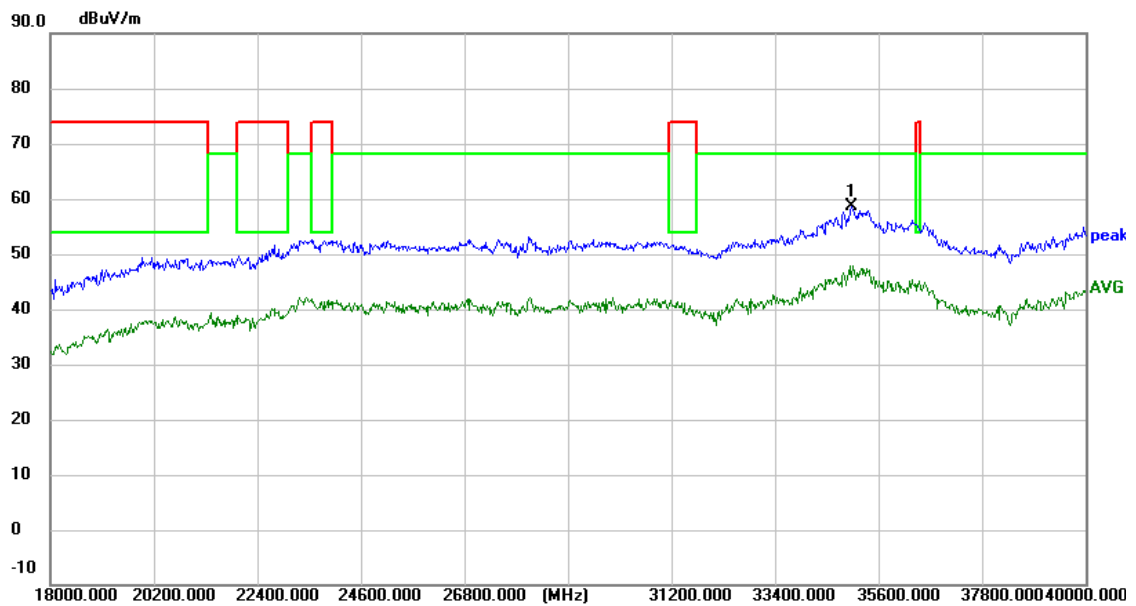
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
35026.533	59.05	3.70	62.75	68.20	-5.45	peak

Note: 802.11n20 mode is the worst mode.

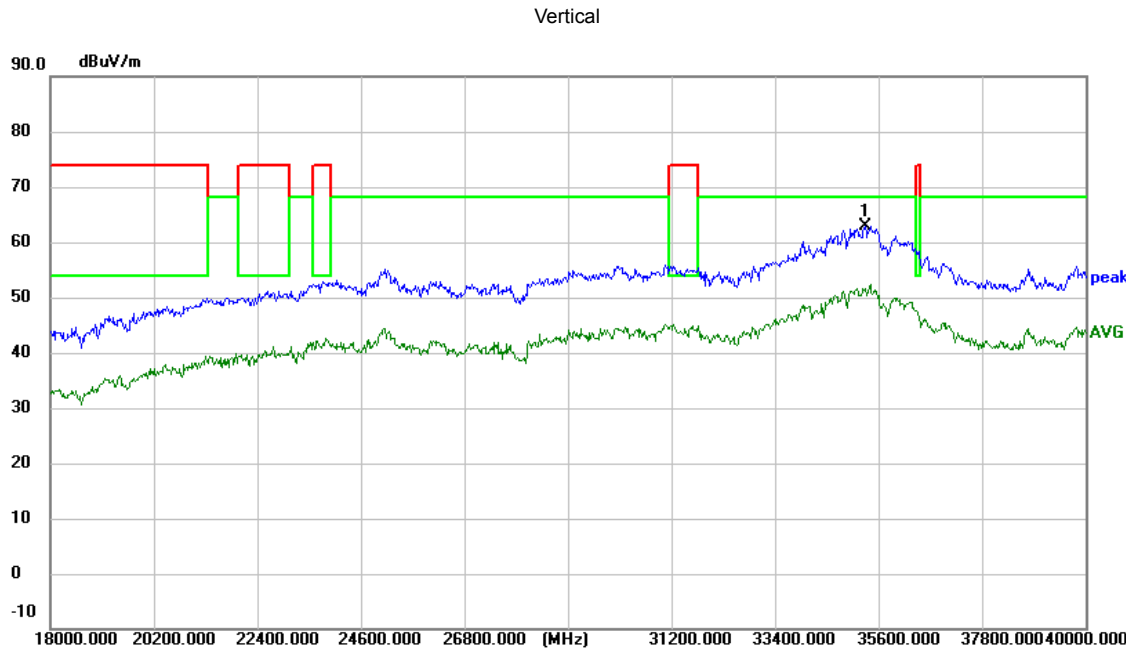
Antenna 1 and Antenna 2 have been tested, and the report shows the worst antenna 1 data

Low Channel (5745 MHz)-Above 1G

Horizontal



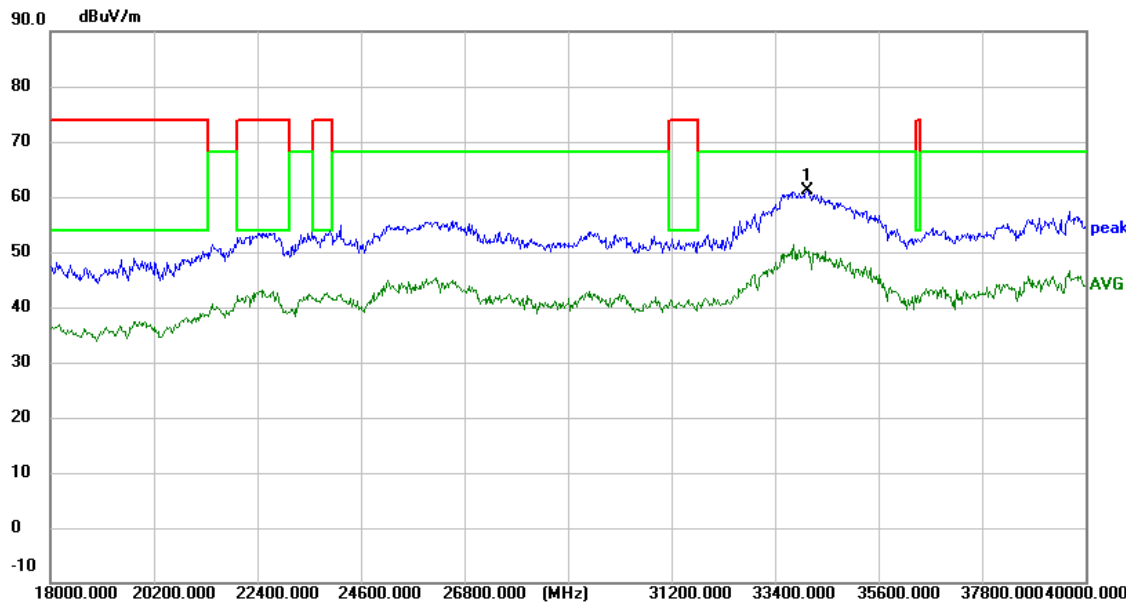
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
35036.800	54.94	3.66	58.60	68.20	-9.60	peak



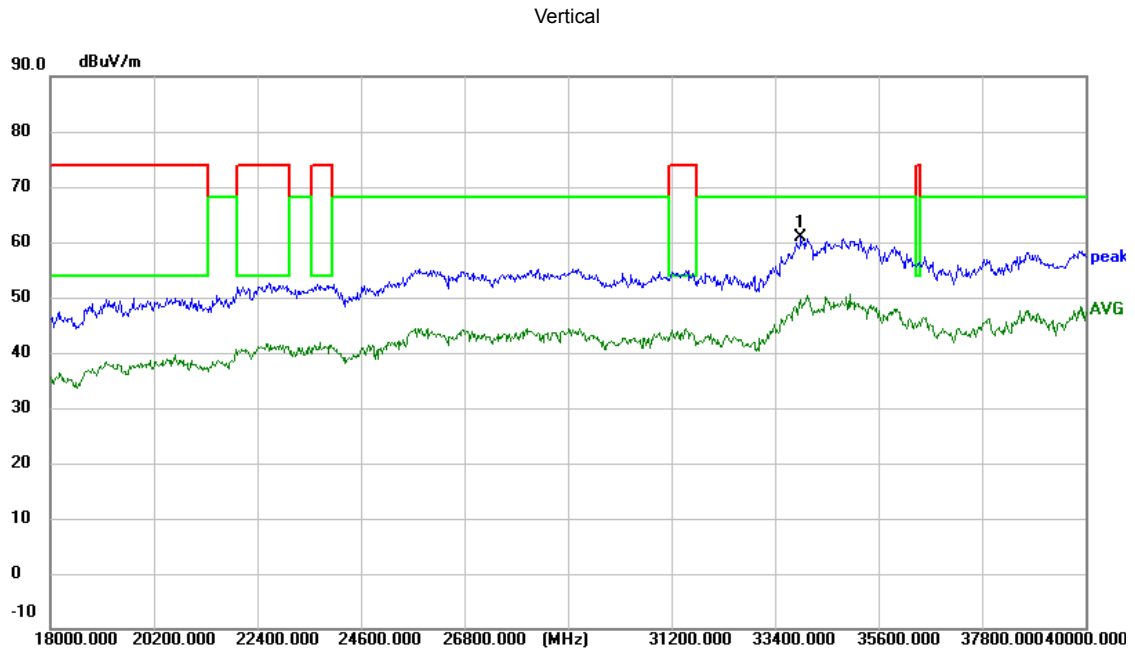
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
35322.800	60.09	2.82	62.91	68.20	-5.29	peak

High Channel (5825 MHz)-Above 1G

Horizontal



Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
34115.000	59.95	1.06	61.01	68.20	-7.19	peak



Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
33975.666	60.17	0.64	60.81	68.20	-7.39	peak

Note: 802.11n20 mode is the worst mode.

Antenna 1 and Antenna 2 have been tested, and the report shows the worst antenna 1 data

3.2.10 Spurious Emission in Restricted Band 4.5GHz~5.150 GHz& 5.350GHz~5460GHz

EUT :	Wi-Fi/Bluetooth Module	Model Name. :	AP6275S
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.3V
Test Mode :	TX (5.2G)-802.11ac20		

All the modulation modes have been tested, The report just record the worst data mode.

Frequency	Meter Reading	Cable Loss	Antenna Factor	Preamp Factor	Emission Level	Limits	Margin	Detector	Comment
(MHz)	(dBμV)	(dB)	dB/m	(dB)	(dBμV/m)	(dBμV/m)	(dB)	Type	
Low Channel (5180 MHz)									
4500	74.13	3.615	32.6	43.25	67.09	74	-6.91	Pk	Horizontal
4500	55.60	3.615	32.6	43.25	48.57	54	-5.44	AV	Horizontal
4500	73.96	3.615	32.6	43.25	66.93	74	-7.07	Pk	Vertical
4500	54.30	3.615	32.6	43.25	47.27	54	-6.74	AV	Vertical
5150	74.57	3.911	34.6	43.27	69.81	74	-4.19	Pk	Horizontal
5150	45.29	3.911	34.6	43.27	40.53	54	-13.47	AV	Horizontal
5150	74.52	3.911	34.6	43.27	69.76	74	-4.24	Pk	Vertical
5150	53.71	3.911	34.6	43.27	48.95	54	-5.05	AV	Vertical
High Channel (5240 MHz)									
5350	70.20	3.939	33.7	43.23	64.61	74	-9.39	Pk	Vertical
5350	52.30	3.939	33.7	43.23	46.71	54	-7.29	AV	Vertical
5350	69.60	3.939	33.7	43.23	64.01	74	-9.99	Pk	Horizontal
5350	53.60	3.939	33.7	43.23	48.01	54	-5.99	AV	Horizontal

Note: (1) Emission Level= Antenna Factor + Cable Loss + Read Level - Preamp Factor

(2) "802.11ac20 " mode is the worst mode. When PK value is lower than the Average value limit, average don't record.

Antenna 1 and Antenna 2 have been tested, and the report shows the worst antenna 1 data

EUT :	Wi-Fi/Bluetooth Module	Model Name. :	AP6275S
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.3V
Test Mode :	TX (5.3G)-802.11ac20		

All the modulation modes have been tested, The report just record the worst data mode.

Polar	Frequency	Meter Reading	Cable loss	Antenna Factor	Preamp Factor	Emission Level	Limits	Margin	Detector Type
(H/V)	(MHz)	(dBuV)	(dB)	dB/m	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
High Channel (5320 MHz)-Above 1G									
5350	76.42	3.94	33.7	43.23	70.83	74	-3.17	Pk	Horizontal
5350	55.25	3.94	33.7	43.23	49.66	54	-4.34	AV	Horizontal
5350	74.03	3.94	33.7	43.23	68.44	74	-5.56	Pk	Vertical
5350	53.23	3.94	33.7	43.23	47.64	54	-6.36	AV	Vertical

Note: (1) Emission Level= Antenna Factor + Cable Loss + Read Level - Preamp Factor

(2) "802.11ac20 " mode is the worst mode. When PK value is lower than the Average value limit, average don't record.

Antenna 1 and Antenna 2 have been tested, and the report shows the worst antenna 1 data

EUT :	Wi-Fi/Bluetooth Module	Model Name. :	AP6275S
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.3V
Test Mode :	TX (5.6G)-802.11n20		

All the modulation modes have been tested, The report just record the worst data mode.

Polar	Frequency	Meter Reading	Cable loss	Antenna Factor	Preamp Factor	Emission Level	Limits	Margin	Detector Type
(H/V)	(MHz)	(dBuV)	(dB)	dB/m	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5500 MHz)-Above 1G									
5460	73.50	3.95	34.56	43.21	68.80	74	-5.20	Pk	Vertical
5460	53.12	3.95	34.56	43.21	48.42	54	-5.58	AV	Vertical
5460	73.25	3.95	34.56	43.21	68.55	74	-5.45	Pk	Horizontal
5460	55.23	3.95	34.56	43.21	50.53	54	-3.47	AV	Horizontal

Note: (1) Emission Level= Antenna Factor + Cable Loss + Read Level - Preamp Factor

(2) "802.11n20 " mode is the worst mode. When PK value is lower than the Average value limit, average don't record.

(3) Antenna 1 and Antenna 2 have been tested, and the report shows the worst antenna 1 data.

4 POWER SPECTRAL DENSITY TEST

4.1 APPLIED PROCEDURES / LIMIT

According to FCC §15.407(a)

For the band 5.15-5.25 GHz,

(i) For an outdoor access point operating in the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).

(ii) For an indoor access point operating in the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

(iii) For fixed point-to-point access points operating in the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. Fixed point-to-point U-NII devices may employ antennas with directional gain up to 23 dBi without any corresponding reduction in the maximum conducted output power or maximum power spectral density. For fixed point-to-point transmitters that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in maximum conducted output power and maximum power spectral density is required for each 1 dB of antenna gain in excess of 23 dBi. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

(iv) For client devices in the 5.15-5.25 GHz band, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in megahertz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For the band 5.725-5.85 GHz

(3) For the band 5.725-5.85 GHz, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

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4.2 TEST PROCEDURE

For devices operating in the bands 5.15-5.25 GHz, 5.25-5.35 GHz, and 5.47-5.725 GHz, the above procedures make use of 1 MHz RBW to satisfy directly the 1 MHz reference bandwidth specified in § 15.407(a)(5). For devices operating in the band 5.725-5.85 GHz, the rules specify a measurement bandwidth of 500 kHz. Many spectrum analyzers do not have 500 kHz RBW, thus a narrower RBW may need to be used. The rules permit the use of a RBWs less than 1 MHz, or 500 kHz, “provided that the measured power is integrated over the full reference bandwidth” to show the total power over the specified measurement bandwidth (i.e., 1 MHz, or 500 kHz). If measurements are performed using a reduced resolution bandwidth (< 1 MHz, or < 500 kHz) and integrated over 1 MHz, or 500 KHz bandwidth, the following adjustments to the procedures apply:

- a) Set $RBW \geq 1/T$, where T is defined in section II.B.I.a).
- b) Set $VBW \geq 3$ RBW.
- c) If measurement bandwidth of Maximum PSD is specified in 500 kHz, add $10\log(500\text{kHz}/RBW)$ to the measured result, whereas $RBW (< 500 \text{ KHz})$ is the reduced resolution bandwidth of the spectrum analyzer set during measurement.
- d) If measurement bandwidth of Maximum PSD is specified in 1 MHz, add $10\log(1\text{MHz}/RBW)$ to the measured result, whereas $RBW (< 1 \text{ MHz})$ is the reduced resolution bandwidth of spectrum analyzer set during measurement.
- e) Care must be taken to ensure that the measurements are performed during a period of continuous transmission or are corrected upward for duty cycle.

Note: As a practical matter, it is recommended to use reduced RBW of 100 KHz for the sections 5.c) and 5.d) above, since $RBW=100 \text{ KHz}$ is available on nearly all spectrum analyzers.

4.3 DEVIATION FROM STANDARD

No deviation.

4.4 TEST SETUP



4.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.1 Unless otherwise a special operating condition is specified in the follows during the testing.

4.6 TEST RESULTS

EUT :	Wi-Fi/Bluetooth Module	Model Name :	AP6275S
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1015 hPa	Test Voltage :	DC 3.3V
Test Mode :	TX Frequency Band 1 (5150-5250MHz), Band 2A (5250-5350MHz), Band 2C (5470-5725MHz), Band 3 (5745-5825MHz)		

Note:

For 802.11n/ac/ax 5GHz has MIMO mode. Directional gain=10.5dbi, 10.5dbi>6.0dbi

Band1& Band 2A& Band 2C: so power limit =11-(10.5-6)=6.5

Band 3: so power limit =30-(10.5-6)=25.5

Test data reference attachment.

5. 26DB & 99% EMISSION BANDWIDTH

5.1 APPLIED PROCEDURES / LIMIT

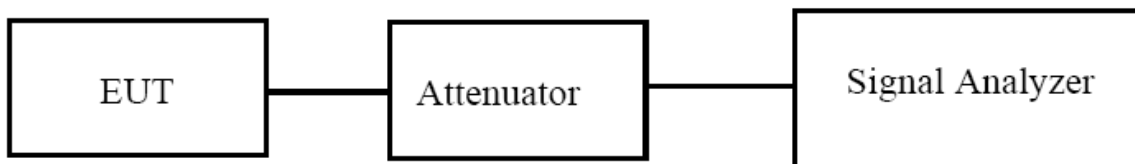
The maximum power spectral density is measured as a conducted emission by direct connection of a calibrated test instrument to the equipment under test. If the device cannot be connected directly, alternative techniques acceptable to the Commission may be used. Measurements in the 5.725-5.85 GHz band are made over a reference bandwidth of 500 kHz or the 26 dB emission bandwidth of the device, whichever is less. Measurements in the 5.15-5.25 GHz, 5.25-5.35 GHz, and the 5.47-5.725 GHz bands are made over a bandwidth of 1 MHz or the 26 dB emission bandwidth of the device, whichever is less. A narrower resolution bandwidth can be used, provided that the measured power is integrated over the full reference bandwidth.

5.2 TEST PROCEDURE

- a) Set RBW = approximately 1% of the emission bandwidth.
- b) Set the VBW > RBW.
- c) Detector = Peak.
- d) Trace mode = max hold.
- e) Measure the maximum width of the emission that is 26 dB down from the maximum 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%.

The following procedure shall be used for measuring (99 %) power bandwidth:

1. Set center frequency to the nominal EUT channel center frequency.
2. Set span = 1.5 times to 5.0 times the OBW.
3. Set RBW = 1 % to 5 % of the OBW
4. Set VBW $\geq 3 \cdot$ RBW
5. Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used.
6. Use the 99 % power bandwidth function of the instrument (if available).
7. If the instrument does not have a 99 % power bandwidth function, the trace data points are recovered and directly summed in power units. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5 % of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5 % of the total is reached; that frequency is recorded as the upper frequency. The 99% occupied bandwidth is the difference between these two frequencies.



5.3 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

5.4 TEST RESULTS

EUT :	Wi-Fi/Bluetooth Module	Model Name :	AP6275S
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1012 hPa	Test Voltage :	DC 3.3V
Test Mode :	TX Frequency Band 1 (5150-5250MHz), Band 2A (5250-5350MHz), Band 2C(5470-5725MHz), Band 3(5725-5850MHz)		

Test data reference attachment.

6. MINIMUM 6 DB BANDWIDTH

6.1 APPLIED PROCEDURES / LIMIT

According to FCC §15.407(e)

(e) Within the 5.725-5.85 GHz band, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.

6.2 EST PROCEDURE

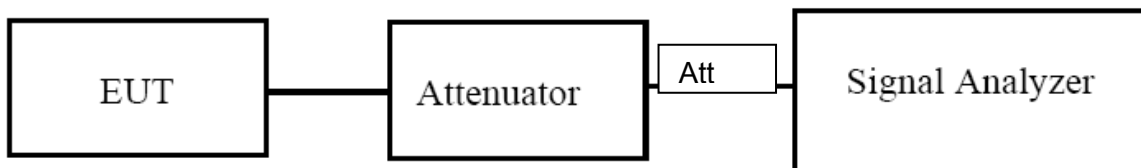
Section 15.407(e) specifies the minimum 6 dB emission bandwidth of at least 500 KHz for the band 5.715-5.85 GHz. The following procedure shall be used for measuring this bandwidth:

- a) Set RBW = 100 kHz.
- b) Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
- c) Detector = Peak.
- d) Trace mode = max hold.
- e) Sweep = auto couple.
- f) Allow the trace to stabilize.
- g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

6.3 DEVIATION FROM STANDARD

No deviation.

6.4 TEST SETUP



6.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

6.6 TEST RESULTS

EUT :	Wi-Fi/Bluetooth Module	Model Name :	AP6275S
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1012 hPa	Test Voltage :	DC 3.3V
Test Mode :	TX (5G) Mode Frequency Band 3 (5725-5850MHz)		

Test data reference attachment.

7. MAXIMUM CONDUCTED OUTPUT POWER

7.1 PPLIED PROCEDURES / LIMIT

According to FCC §15.407

The maximum conducted output power should not exceed:

Frequency Band(MHz)	Limit
5150~5250	250mW
5250~5350	250 mW or 11 dBm + 10 log B Note: The limit is the smaller of the two, "B" represents -26dB bandwidth.
5470~5725	250 mW or 11 dBm + 10 log B Note: The limit is the smaller of the two, "B" represents -26dB bandwidth.
5725~5850	1W

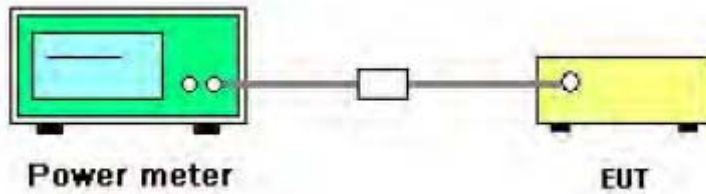
7.2 TEST PROCEDURE

- Method PM is Measurement using an RF average power meter. The procedure for this method is as follows:
 - a) Measurements may be performed using a wideband RF power meter with a thermocouple detector or equivalent if all of the following conditions are satisfied:
 - 1) The EUT is configured to transmit continuously, or to transmit with a constant duty cycle.
 - 2) At all times when the EUT is transmitting, it shall be transmitting at its maximum power control level.
 - 3) The integration period of the power meter exceeds the repetition period of the transmitted signal by at least a factor of five.
 - b) If the transmitter does not transmit continuously, measure the duty cycle D of the transmitter output signal as described in 12.2.
 - c) Measure the average power of the transmitter. This measurement is an average over both the ON and OFF periods of the transmitter.
 - d) Adjust the measurement in dBm by adding $[10 \log (1 / D)]$, where D is the duty cycle {e.g., $[10 \log (1 / 0.25)]$, if the duty cycle is 25%}.

7.3 DEVIATION FROM STANDARD

No deviation.

7.4 TEST SETUP



7.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

7.6 TEST RESULTS

EUT :	Wi-Fi/Bluetooth Module	Model Name :	AP6275S
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1012 hPa	Test Voltage :	DC 3.3V
Test Mode :	TX (5G) Mode Frequency Band 1 (5150-5250MHz), Band 2A (5250-5350MHz) Band 2C, (5470-5725MHz), Band 3 (5725-5850MHz)		

For 802.11n/ac/ax 5GHz has MIMO mode. Directional gain=10.5dbi, 10.5dbi>6.0dbi

Band1: so power limit =24-(10.5-6)=19.5

Band 2A : so power limit =(250 mW or 11 dBm+ 10 log B)_{Note1} -(10.5-6) dBm

Band 2C: so power limit =(250 mW or 11 dBm+ 10 log B)_{Note1} -(10.5-6) dBm

Band 3: so power limit =30-(10.5-6)=25.5

Note 1: The limit is the smaller of the two, "B" represents -26dB bandwidth.

2: The product supports DFS, but the EIRP power is less than 500mW, so no testing is required.

Test data reference attachment.

8. OUT OF BAND EMISSIONS

8.1 APPLICABLE STANDARD

According to FCC §15.407(b)

Undesirable emission limits. Except as shown in paragraph (b)(10) of this section, the maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

- (1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (4) For transmitters operating in the 5.725-5.85 GHz band:
 - (i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.
 - (ii) Devices certified before March 2, 2017 with antenna gain greater than 10 dBi may demonstrate compliance with the emission limits in §15.247(d), but manufacturing, marketing and importing of devices certified under this alternative must cease by March 2, 2018. Devices certified before March 2, 2018 with antenna gain of 10 dBi or less may demonstrate compliance with the emission limits in §15.247(d), but manufacturing, marketing and importing of devices certified under this alternative must cease before March 2, 2020.

8.2 TEST PROCEDURE

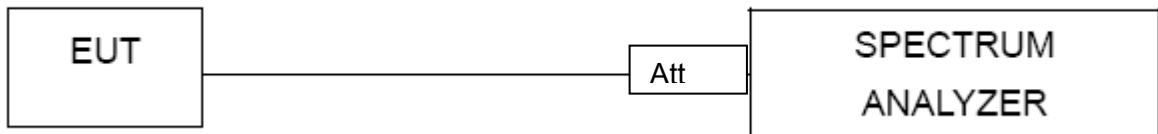
1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.

3. Set RBW of spectrum analyzer to 1 MHz with a convenient frequency span.
4. Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
5. Repeat above procedures until all measured frequencies were complete.

8.3 DEVIATION FROM STANDARD

No deviation.

8.4 TEST SETUP



8.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

8.6 TEST RESULTS

EUT :	Wi-Fi/Bluetooth Module	Model Name :	AP6275S
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1012 hPa	Test Voltage :	DC 3.3V

Test data reference attachment.

9. Frequency Stability Measurement

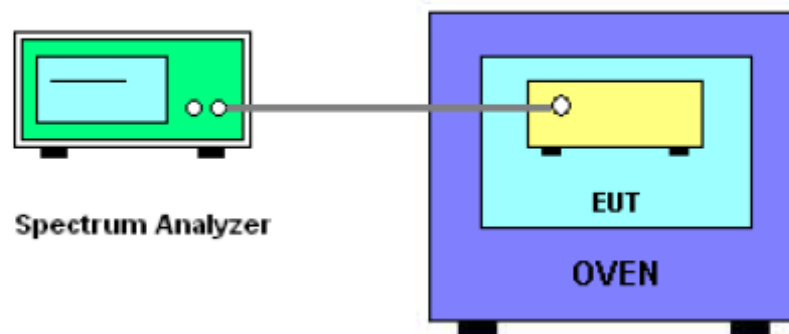
9.1 LIMIT

Manufactures of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.

9.2 TEST PROCEDURES

1. The transmitter output (antenna port) was connected to the spectrum analyzer.
2. EUT have transmitted absence of modulation signal and fixed channelize.
3. Set the spectrum analyzer span to view the entire absence of modulation emissions bandwidth.
4. Set RBW = 10 kHz, VBW = 10 kHz with peak detector and maxhold settings.
5. f_c is declaring of channel frequency. Then the frequency error formula is $(f_c - f)/f_c \times 10^6$ ppm and the limit is less than ± 20 ppm (IEEE 802.11 specification).
6. The test extreme voltage is to change the primary supply voltage from 85 to 115 percent of the nominal value
7. Extreme temperature is $-20^{\circ}\text{C} \sim 70^{\circ}\text{C}$.

9.3 TEST SETUP LAYOUT



9.4 EUT OPERATION DURING TEST

1. The EUT was programmed to be in continuously un-modulation transmitting mode.
2. The module has two antennas, and the worst data is Antenna 1, only shown Antenna 1 Plot.

9.5 TEST RESULTS

Note: ANT0 and ANT1 have been evaluated, the report presents only the worst mode ANT0

EUT :	Wi-Fi/Bluetooth Module	Model Name. :	AP6275S
Temperature :	25 °C	Relative Humidity :	56%
Pressure :	1012 hPa	Test Voltage :	DC 3.3V
Test Mode :	TX Frequency Band I (5150-5250MHz)		

Voltage vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5180MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
T nom (°C)	20	V nom (V)	3.3	5180.0062	5180	0.0062	1.2042
		V max (V)	3.63	5180.0039	5180	0.0039	0.7463
		V min (V)	2.97	5180.0097	5180	0.0097	1.8634
Limits				Within 5150-5250MHz			
Result				Complies			

Temperature vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5180MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
V nom (V)	3.3	T (°C)	-20	5180.0031	5180	0.0031	0.5895
		T (°C)	-10	5180.0030	5180	0.0030	0.5733
		T (°C)	0	5180.0068	5180	0.0068	1.3053
		T (°C)	10	5180.0100	5180	0.0100	1.9295
		T (°C)	20	5180.0061	5180	0.0061	1.1836
		T (°C)	30	5180.0098	5180	0.0098	1.8946
		T (°C)	40	5180.0098	5180	0.0098	1.8832
		T (°C)	50	5180.0026	5180	0.0026	0.5053
		T (°C)	60	5180.0036	5180	0.0036	0.6965
		T (°C)	70	5180.0060	5180	0.0060	1.1596
Limits				Within 5150-5250MHz			
Result				Complies			

Voltage vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5200MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
T nom (°C)	20	V nom (V)	3.3	5200.0030	5200	0.0030	0.5825
		V max (V)	3.63	5200.0069	5200	0.0069	1.3177
		V min (V)	2.97	5200.0055	5200	0.0055	1.0637
Limits				Within 5150-5250MHz			
Result				Complies			

Temperature vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5200MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
V nom (V)	3.3	T (°C)	-20	5200.0078	5200	0.0078	1.5095
		T (°C)	-10	5200.0075	5200	0.0075	1.4456
		T (°C)	0	5200.0027	5200	0.0027	0.5116
		T (°C)	10	5200.0016	5200	0.0016	0.3054
		T (°C)	20	5200.0079	5200	0.0079	1.5142
		T (°C)	30	5200.0045	5200	0.0045	0.8666
		T (°C)	40	5200.0053	5200	0.0053	1.0133
		T (°C)	50	5200.0006	5200	0.0006	0.1143
		T (°C)	60	5200.0022	5200	0.0022	0.4281
		T (°C)	70	5200.0086	5200	0.0086	1.6454
Limits				Within 5150-5250MHz			
Result				Complies			

Voltage vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5240MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
T nom (°C)	20	V nom (V)	3.3	5240.0050	5240	0.0050	0.9533
		V max (V)	3.63	5240.0089	5240	0.0089	1.6981
		V min (V)	2.97	5240.0082	5240	0.0082	1.5635
Limits				Within 5150-5250MHz			
Result				Complies			

Temperature vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5240MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
V nom (V)	3.3	T (°C)	-20	5240.0009	5240	0.0009	0.1792
		T (°C)	-10	5240.0059	5240	0.0059	1.1238
		T (°C)	0	5240.0020	5240	0.0020	0.3815
		T (°C)	10	5240.0020	5240	0.0020	0.3833
		T (°C)	20	5240.0095	5240	0.0095	1.8132
		T (°C)	30	5240.0071	5240	0.0071	1.3562
		T (°C)	40	5240.0008	5240	0.0008	0.1546
		T (°C)	50	5240.0015	5240	0.0015	0.2808
		T (°C)	60	5240.0020	5240	0.0020	0.3742
		T (°C)	70	5240.0074	5240	0.0074	1.4103
Limits				Within 5150-5250MHz			
Result				Complies			

EUT :	Wi-Fi/Bluetooth Module	Model Name. :	AP6275S
Temperature :	25 °C	Relative Humidity :	56%
Pressure :	1012 hPa	Test Voltage :	DC 3.3V
Test Mode :	TX Frequency Band 2A (5250-5350MHz)		

Voltage vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5260MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
T nom (°C)	20	V nom (V)	3.3	5260.0083	5260	0.00825	1.5689
		V max (V)	3.63	5260.0094	5260	0.00940	1.7880
		V min (V)	2.97	5260.0060	5260	0.00596	1.1331
Limits				Within 5250-5350MHz			
Result				Complies			

Temperature vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5260MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
V nom (V)	3.3	T (°C)	-20	5260.0063	5260	0.00632	1.2024
		T (°C)	-10	5260.0071	5260	0.00708	1.3455
		T (°C)	0	5260.0090	5260	0.00899	1.7096
		T (°C)	10	5260.0010	5260	0.00103	0.1949
		T (°C)	20	5260.0097	5260	0.00970	1.8432
		T (°C)	30	5260.0016	5260	0.00163	0.3097
		T (°C)	40	5260.0061	5260	0.00610	1.1599
		T (°C)	50	5260.0029	5260	0.00292	0.5560
		T (°C)	60	5260.0067	5260	0.00668	1.2705
		T (°C)	70	5260.0039	5260	0.00390	0.7418
Limits				Within 5250-5350MHz			
Result				Complies			

Voltage vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5280MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
T nom (°C)	20	V nom (V)	3.3	5280.0080	5280	0.00799	1.5126
		V max (V)	3.63	5280.0043	5280	0.00434	0.8216
		V min (V)	2.97	5280.0009	5280	0.00094	0.1780
Limits				Within 5250-5350MHz			
Result				Complies			

Temperature vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5280MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
V nom (V)	3.3	T (°C)	-20	5280.0034	5280	0.00337	0.6386
		T (°C)	-10	5280.0007	5280	0.00075	0.1412
		T (°C)	0	5280.0025	5280	0.00246	0.4653
		T (°C)	10	5280.0036	5280	0.00360	0.6825
		T (°C)	20	5280.0024	5280	0.00243	0.4610
		T (°C)	30	5280.0087	5280	0.00872	1.6514
		T (°C)	40	5280.0091	5280	0.00913	1.7287
		T (°C)	50	5280.0066	5280	0.00655	1.2407
		T (°C)	60	5280.0030	5280	0.00298	0.5639
		T (°C)	70	5280.0030	5280	0.00297	0.5628
Limits				Within 5250-5350MHz			
Result				Complies			

Voltage vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5320MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
T nom (°C)	20	V nom (V)	3.3	5320.0048	5320	0.00479	0.9008
		V max (V)	3.63	5320.0043	5320	0.00433	0.8147
		V min (V)	2.97	5320.0094	5320	0.00944	1.7736
Limits				Within 5250-5350MHz			
Result				Complies			

Temperature vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5320MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
V nom (V)	3.3	T (°C)	-20	5320.0071	5320	0.00709	1.3325
		T (°C)	-10	5320.0050	5320	0.00499	0.9375
		T (°C)	0	5320.0038	5320	0.00383	0.7207
		T (°C)	10	5320.0029	5320	0.00290	0.5459
		T (°C)	20	5320.0083	5320	0.00830	1.5602
		T (°C)	30	5320.0035	5320	0.00346	0.6503
		T (°C)	40	5320.0004	5320	0.00040	0.0752
		T (°C)	50	5320.0015	5320	0.00153	0.2867
		T (°C)	60	5320.0054	5320	0.00539	1.0123
		T (°C)	70	5320.0054	5320	0.00537	1.0091
Limits				Within 5250-5350MHz			
Result				Complies			

EUT :	Wi-Fi/Bluetooth Module	Model Name. :	AP6275S
Temperature :	25 °C	Relative Humidity :	56%
Pressure :	1012 hPa	Test Voltage :	DC 3.3V
Test Mode :	TX Frequency Band 2C (5470-5725MHz)		

Voltage vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5500MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
T nom (°C)	20	V nom (V)	3.3	5500.0036	5500	0.00357	0.6489
		V max (V)	3.63	5500.0085	5500	0.00846	1.5376
		V min (V)	2.97	5500.0039	5500	0.00391	0.7112
Limits				Within 5470-5725MHz			
Result				Complies			

Temperature vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5500MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
V nom (V)	3.3	T (°C)	-20	5500.0011	5500	0.00114	0.2079
		T (°C)	-10	5500.0042	5500	0.00423	0.7700
		T (°C)	0	5500.0014	5500	0.00145	0.2635
		T (°C)	10	5500.0043	5500	0.00429	0.7802
		T (°C)	20	5500.0054	5500	0.00544	0.9896
		T (°C)	30	5500.0010	5500	0.00097	0.1765
		T (°C)	40	5500.0049	5500	0.00493	0.8964
		T (°C)	50	5500.0009	5500	0.00089	0.1618
		T (°C)	60	5500.0076	5500	0.00757	1.3755
		T (°C)	70	5500.0029	5500	0.00295	0.5361
Limits				Within 5470-5725MHz			
Result				Complies			

Voltage vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5600MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
T nom (°C)	20	V nom (V)	3.3	5600.0006	5600	0.00057	0.1023
		V max (V)	3.63	5600.0014	5600	0.00138	0.2465
		V min (V)	2.97	5600.0030	5600	0.00298	0.5330
Limits				Within 5470-5725MHz			
Result				Complies			

Temperature vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5600MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
V nom (V)	3.3	T (°C)	-20	5600.0034	5600	0.00344	0.6143
		T (°C)	-10	5600.0020	5600	0.00203	0.3629
		T (°C)	0	5600.0039	5600	0.00388	0.6935
		T (°C)	10	5600.0010	5600	0.00099	0.1771
		T (°C)	20	5600.0021	5600	0.00212	0.3791
		T (°C)	30	5600.0002	5600	0.00020	0.0363
		T (°C)	40	5600.0024	5600	0.00242	0.4315
		T (°C)	50	5600.0048	5600	0.00480	0.8571
		T (°C)	60	5600.0045	5600	0.00454	0.8108
		T (°C)	70	5600.0051	5600	0.00508	0.9070
Limits				Within 5470-5725MHz			
Result				Complies			

Voltage vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5700MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
T nom (°C)	20	V nom (V)	3.3	5700.0033	5700	0.00329	0.5776
		V max (V)	3.63	5700.0052	5700	0.00519	0.9106
		V min (V)	2.97	5700.0021	5700	0.00208	0.3649
Limits				Within 5470-5725MHz			
Result				Complies			

Temperature vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5700MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
V nom (V)	3.3	T (°C)	-20	5700.0005	5700	0.00049	0.0852
		T (°C)	-10	5700.0056	5700	0.00558	0.9794
		T (°C)	0	5700.0014	5700	0.00141	0.2473
		T (°C)	10	5700.0081	5700	0.00810	1.4207
		T (°C)	20	5700.0034	5700	0.00341	0.5989
		T (°C)	30	5700.0018	5700	0.00177	0.3105
		T (°C)	40	5700.0091	5700	0.00909	1.5943
		T (°C)	50	5700.0097	5700	0.00973	1.7078
		T (°C)	60	5700.0040	5700	0.00400	0.7018
		T (°C)	70	5700.0091	5700	0.00910	1.5965
Limits				Within 5470-5725MHz			
Result				Complies			

EUT :	Wi-Fi/Bluetooth Module	Model Name. :	AP6275S
Temperature :	25 °C	Relative Humidity :	56%
Pressure :	1012 hPa	Test Voltage :	DC 3.3V
Test Mode :	TX Frequency(5745-5850MHz)		

Voltage vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5745MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
T nom (°C)	20	V nom (V)	3.3	5745.0044	5745	0.00436	0.7582
		V max (V)	3.63	5745.0005	5745	0.00055	0.0955
		V min (V)	2.97	5745.0057	5745	0.00570	0.9920
Limits				Within 5745-5850MHz			
Result				Complies			

Temperature vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5745MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
V nom (V)	3.3	T (°C)	-20	5745.0065	5745	0.00650	1.1323
		T (°C)	-10	5745.0011	5745	0.00109	0.1904
		T (°C)	0	5745.0066	5745	0.00660	1.1485
		T (°C)	10	5745.0039	5745	0.00393	0.6847
		T (°C)	20	5745.0071	5745	0.00708	1.2325
		T (°C)	30	5745.0055	5745	0.00546	0.9509
		T (°C)	40	5745.0042	5745	0.00417	0.7254
		T (°C)	50	5745.0041	5745	0.00408	0.7100
		T (°C)	60	5745.0002	5745	0.00018	0.0314
		T (°C)	70	5745.0062	5745	0.00625	1.0878
Limits				Within 5745-5850MHz			
Result				Complies			

Voltage vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5785MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
T nom (°C)	20	V nom (V)	3.3	5785.0030	5785	0.00304	0.5248
		V max (V)	3.63	5785.0057	5785	0.00568	0.9817
		V min (V)	2.97	5785.0033	5785	0.00333	0.5758
Limits				Within 5745-5850MHz			
Result				Complies			

Temperature vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5785MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
V nom (V)	3.3	T (°C)	-20	5785.0055	5785	0.00548	0.9478
		T (°C)	-10	5785.0057	5785	0.00565	0.9770
		T (°C)	0	5785.0023	5785	0.00230	0.3982
		T (°C)	10	5785.0042	5785	0.00419	0.7236
		T (°C)	20	5785.0059	5785	0.00588	1.0156
		T (°C)	30	5785.0016	5785	0.00155	0.2682
		T (°C)	40	5785.0080	5785	0.00796	1.3767
		T (°C)	50	5785.0035	5785	0.00353	0.6102
		T (°C)	60	5785.0020	5785	0.00197	0.3407
		T (°C)	70	5785.0090	5785	0.00901	1.5571
Limits				Within 5745-5850MHz			
Result				Complies			

Voltage vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5825MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
T nom (°C)	20	V nom (V)	3.3	5825.0010	5825	0.00097	0.1664
		V max (V)	3.63	5825.0014	5825	0.00137	0.2359
		V min (V)	2.97	5825.0008	5825	0.00077	0.1320
Limits				Within 5745-5850MHz			
Result				Complies			

Temperature vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5825MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
V nom (V)	3.3	T (°C)	-20	5825.0033	5825	0.00331	0.5684
		T (°C)	-10	5825.0052	5825	0.00520	0.8935
		T (°C)	0	5825.0038	5825	0.00384	0.6589
		T (°C)	10	5825.0041	5825	0.00407	0.6982
		T (°C)	20	5825.0072	5825	0.00719	1.2339
		T (°C)	30	5825.0047	5825	0.00465	0.7985
		T (°C)	40	5825.0047	5825	0.00474	0.8134
		T (°C)	50	5825.0006	5825	0.00055	0.0953
		T (°C)	60	5825.0087	5825	0.00869	1.4921
		T (°C)	70	5825.0093	5825	0.00929	1.5945
Limits				Within 5745-5850MHz			
Result				Complies			

10. DYNAMIC FREQUENCY SELECTION(DFS)

10.1 APPLICABILITY OF DFS REQUIREMENTS

EUT is client and operates as client without radar detection function.

Wi-Fi/Bluetooth Module 1: Applicability of DFS Requirements Prior to Use of a Channel

Requirement	Operational Mode		
	Master	Client Without Radar Detection	Client With Radar Detection
Non-Occupancy Period	Yes	Not required	Yes
DFS Detection Threshold	Yes	Not required	Yes
Channel Availability Check Time	Yes	Not required	Not required
U-NII Detection Bandwidth	Yes	Not required	Yes

Wi-Fi/Bluetooth Module 2: Applicability of DFS requirements during normal operation

Requirement	Operational Mode		
	Master	Client Without Radar Detection	Client With Radar Detection
DFS Detection Threshold	Yes	Not required	Yes
Channel Closing Transmission Time	Yes	Yes	Yes
Channel Move Time	Yes	Yes	Yes
U-NII Detection Bandwidth	Yes	Not required	Yes
Client Beacon Test	N/A	Yes	Yes

Additional requirements for devices with multiple bandwidth modes	Operational Mode	
	Master or Client With Radar Detection	Client Without Radar Detection
U-NII Detection Bandwidth and Statistical Performance Check	All BW modes must be tested	Not required
Channel Move Time and Channel Closing Transmission Time	Test using widest BW mode available	Test using the widest BW mode available for the link
All other tests	Any single BW mode	Not required
Note Frequencies selected for statistical performance check (Section 7.8.4) should include several frequencies within the radar detection bandwidth and frequencies near the edge of the radar detection bandwidth. For 802.11 devices it is suggested to select frequencies in each of the bonded 20 MHz channels and the channel center frequency.		

10.2 INTERFERENCE THRESHOLD VALUES, MASTER OR CLIENT INCORPORATING IN-SERVICE MONITORING

Maximum Transmit Power	Value (see notes 1, 2, and 3)
EIRP $\geq$ 200 milliwatt	-64 dBm
EIRP < 200 milliwatt and power spectral density < 10 dBm/MHz	-62 dBm
EIRP < 200 milliwatt that do not meet the power spectral density requirement	-64 dBm
Note 1: This is the level at the input of the receiver assuming a 0 dBi receive antenna. Note 2: Throughout these test procedures an additional 1 dB has been added to the amplitude of the test transmission waveforms to account for variations in measurement equipment. This will ensure that the test signal is at or above the detection threshold level to trigger a DFS response. Note 3: EIRP is based on the highest antenna gain.	

10.3 DFS RESPONSE REQUIREMENT VALUES

Parameter	Value
Non-occupancy period	Minimum 30 minutes
Channel Availability Check Time	60 seconds
Channel Move Time	10 seconds See Note 1.
Channel Closing Transmission Time	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. See Notes 1 and 2.
U-NII Detection Bandwidth	Minimum 100% of the 99% power bandwidth See Note 3.

Note 1: The instant that the Channel Move Time and the Channel Closing Transmission Time begins is as follows:

- For the Short pulse radar Test Signals this instant is the end of the Burst.
- For the Frequency Hopping radar Test Signal, this instant is the end of the last radar Burst generated.
- For the Long Pulse radar Test Signal this instant is the end of the 12 second period defining the radar transmission.

Note 2: The Channel Closing Transmission Time is comprised of 200 milliseconds starting at the beginning of the Channel Move Time plus any additional intermittent control signals required to facilitate Channel changes (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions.

Note 3: During the U-NII Detection Bandwidth detection test, radar type 0 is used and for each frequency step the minimum percentage of detection is 90%. Measurements are performed with no data traffic.

10.4 SHORT PULSE RADAR TEST WAVEFORMS

As the EUT is a Client Device with no Radar Detection, only one type radar pulse is required for the testing. Radar Pulse type 0 was used in the evaluation of the Client device for the purpose of measuring the Channel Move Time and the Channel Closing Transmission Time.

Radar Type	Pulse Width (μsec)	PRI (μsec)	Number of Pulses	Minimum Percentage of Successful Detection	Minimum Trials
0	1	1428	18	60%	30
1	1	Test A Test B	Roundup $\left(\frac{1}{360} \cdot \frac{19 \cdot 10^6}{PRI_{min}} \right)$	60%	30
2	1-5	150-230	23-29	60%	30
3	6-10	200-500	16-18	60%	30
4	11-20	200-500	12-16	60%	30
Aggregate (Radar Types 1-4)				80%	120

Test A: 15 unique PRI values randomly selected from the list of 23 PRI values in Wi-Fi/Bluetooth Module

5a

Test B: 15 unique PRI values randomly selected within the range of 518-3066 μsec, with a minimum increment of 1 μsec, excluding PRI values selected in Test A

A minimum of 30 unique waveforms are required for each of the short pulse radar types 2 through 4. For short pulse radar type 1, the same waveform is used a minimum of 30 times. If more than 30 waveforms are used for short pulse radar types 2 through 4, then each additional waveform must also be unique and not repeated from the previous waveforms.

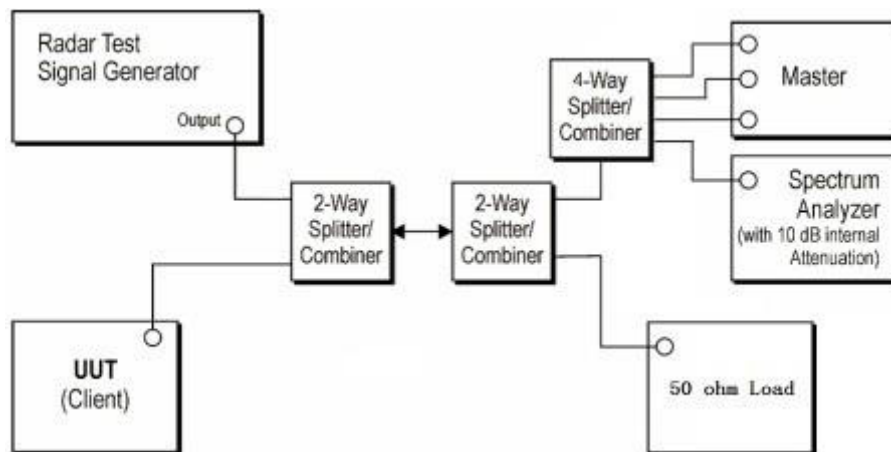
If more than 30 waveforms are used for Short Pulse Radar Type 1, then each additional waveform is generated with Test B and must also be unique and not repeated from the previous waveforms in Tests A or B. The aggregate is the average of the percentage of successful detections of short pulse radar types 1-4.

10.5 CALIBRATION SETUP AND DFS TEST RESULTS

Radar Waveform Calibration Procedure

- 1) A 50 ohm load is connected in place of the spectrum analyzer, and the spectrum analyzer is connected to place of the master
- 2) The interference Radar Detection Threshold Level is $-62\text{dBm} + 3.69\text{dBi} = -58.31\text{dBm}$ that had been taken into account the output power range and antenna gain.
- 3) The following equipment setup was used to calibrate the conducted radar waveform. A vector signal generator was utilized to establish the test signal level for radar type 0. During this process there were no transmissions by either the master or client device. The spectrum analyzer was switched to the zero spans (time domain) at the frequency of the radar waveform generator. Peak detection was used. The spectrum analyzer resolution bandwidth (RBW) and video bandwidth (VBW) were set to 3 MHz. The spectrum analyzer had offset -1.0dB to compensate RF cable loss 1.0dB.
- 4) The vector signal generator amplitude was set so that the power level measured at the spectrum analyzer was $-62\text{dBm} + 3.69\text{dBi} + 1\text{dB} = -57.31\text{dBm}$. Capture the spectrum analyzer plots on short pulse radar waveform.

10.6 CONDUCTED CALIBRATION SETUP



Wireless AP	Manufacturer	ASUSTek Computer Inc
	Model NO.	AX5400
	FCC ID	MSQ-RTAXJ300

Note:1. The Slave device associated with the EUT during these tests does not have radar detection capability.

2. WLAN traffic is generated by using the iperf software to send packets from the Master IP address to the Slave IP address.

3. The time required for the master and slave devices to fully start up is 120s.

4. EUT does not support TPC.

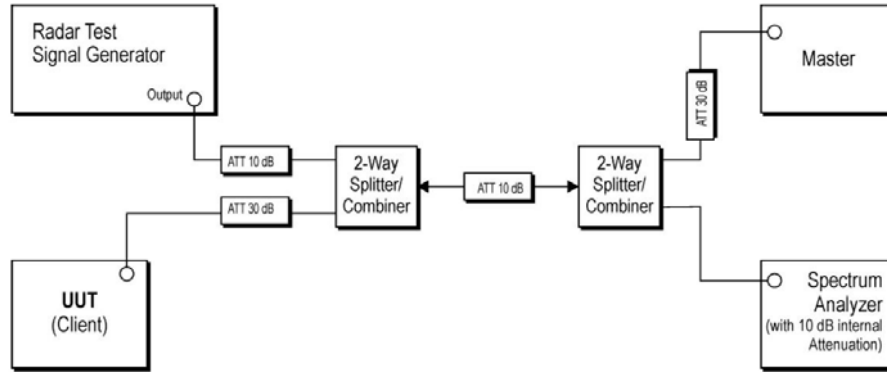
10.7 RADAR WAVEFORM CALIBRATION RESULT

Test data reference attachment.

10.8 IN-SERVICE MONITORING: CHANNEL MOVE TIME, CHANNEL CLOSING TRANSMISSION TIME AND NON-OCCUPANCY PERIOD

TEST CONFIGURATION:

Setup for Client with injection at the Master



TEST PROCEDURE:

1. The radar pulse generator is setup to provide a pulse at frequency that the master and client are operating. A type 0 radar pulse with a 1us pulse width and a 1428us PRI is used for the testing.
2. The vector signal generator is adjusted to provide the radar burst (18 pulses) at the level of approximately -61dBm at the antenna port of the master device
3. A trigger is provided from the pulse generator to the DFS monitoring system in order to capture the traffic and the occurrence of the radar pulse.
4. EUT will associate with the master at channel. The file "iperf.exe" specified by the FCC is Streamed from the PC 2 through the master and the client device to the PC 1 and played in full motion video using Media Player Classic Ver. 6.4.8.6 in order to properly load the network for the entire period of the test.
5. When radar burst with a level equal to the DFS Detection Threshold +1dB is generated on the operating channel of the U-NII device. At time T0 the radar waveform generator sends a burst of pulse of the radar waveform at Detection Threshold +1dB.
6. Observe the transmissions of the EUT at the end of the radar Burst on the Operating Channel Measure and record the transmissions from the UUT during the observation time (Channel Move Time). One 15 seconds plot is reported for the Short Pulse Radar Type 0. The plot for the Short Pulse Radar Types start at the end of the radar burst. The Channel Move Time will be calculated based on the zoom In 600ms plot of the Short Pulse Radar Type
7. Measurement of the aggregate duration of the Channel Closed Transmission Time method. With the spectrum analyzer set to zero span tuned to the center frequency of the EUT operating channel at the radar simulated frequency, peak detection, and max hold, the dwell time per bin is given by: $Dwell (0.3ms) = S (12000ms) / B (4000)$; where Dwell is the dwell time per spectrum analyzer sampling bin, S is sweep time and B is the number of spectrum analyzer sampling bins. An upper bound of the aggregate duration of the intermittent control signals of Channel Closing Transmission Time is calculated by: $C (ms) = N \times Dwell (0.3ms)$; where C is the Closing Time, N is the number of spectrum analyzer sampling bins (intermittent control signals) showing a U-NII transmission and Dwell is the dwell time per bin.
8. Measurement the EUT for more than 30 minutes following the channel move time to verify that no transmission or beacons occur on this channel.

TEST MODE:

Mode	Frequency (MHz)
ac80	5290
ac80	5530
n40	5310
n40	5510
a	5320
a	5500

10.9 RESULT OF CHANNEL MOVE TIME, CHANNEL CLOSING TRANSMISSION TIME AND NON-OCCUPANCY PERIOD FOR CLIENT BEACON TEST

Test data reference attachment.

11. ANTENNA REQUIREMENT

11.1 STANDARD REQUIREMENT

15.203 requirement: For intentional device, according to 15.203: an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

11.2 EUT ANTENNA

The EUT antenna is PCB antenna. It comply with the standard requirement.

END OF REPORT