TEST REPORT

Report No.:	BCTC2008003313-4E
Applicant:	Shenzhen Hengbida Electronic Technology co., Ltd
Product Name:	All-in-one VR
Model/Type Ref.:	V30
Tested Date:	Sep. 24, 2020 to Oct. 16, 2020
Issued Date:	Oct. 19, 2020

Shenzhen BCTC Testing Co., Ltd

FCC ID: 2AG7X-V30

Product Name:	All-in-one VR
Trademark:	N/A
Model/Type Ref.:	V30 V20, V22, V23, V31, V32, V33, V40, V41, V42, V43, V50, V51, V52, V53, V60, V61, V62, V63, A01, A02, A03, A04, A05, A06, A07, A08, A09, A10
Prepared For:	Shenzhen Hengbida Electronic Technology co., Ltd
Address:	Building D, 4/F, Shanghe Industrial Park Nanchang Rd, Xixiang Street, Ban'an District, Shenzhen, China
Manufacturer:	Shenzhen Hengbida Electronic Technology co., Ltd
Address:	Building D, 4/F, Shanghe Industrial Park Nanchang Rd, Xixiang Street, Ban'an District, Shenzhen, China
Prepared By:	Shenzhen BCTC Testing Co., Ltd.
Address:	1-2F, East of B Building, Pengzhou Industrial, Fuyuan 1st Road, Qiaotou Community, Fuyong Street, Bao'an District, Shenzhen, China
Sample Received Date:	Sep. 24, 2020
Sample tested Date:	Sep. 24, 2020 to Oct. 16, 2020
Issue Date:	Oct. 19, 2020
Report No.:	BCTC2008003313-4E
Test Standards	FCC Part15 15.407 ANSI C63.10-2013 KDB 662911 D01 v02r01 KDB 789033 D02 v02r01
Test Results	PASS

Tested by:

Eric Yang/Project Handler

Approved by:

Zero Zhou/Reviewed

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(Note: N/A means not applicable)

1. VERSION

Report No.	Issue Date	Description	Approved
BCTC2008003313-4E	Oct. 19, 2020	Original	Valid

2. TEST SUMMARY

The Product has been tested according to the following specifications:

No.	Test Parameter	Clause No	Results
1	Spurious Radiated Emissions	15.209(a), 15.407 (b)(1) 15.407 (b)(4)	PASS
2	Conducted Emission	15.207	PASS
3	26 dB and 99% Emission Bandwidth	15.407 (a)(5) 15.1049	PASS
4	Minimum 6 dB bandwidth	15.407(e)	PASS
5	Maximum Conducted Output Power	15.407 (a)(1) 15.407 (a)(3)	PASS
6	Band Edge	2.1051, 15.407(b)(1) 15.407(b)(4)	PASS
7	Power Spectral Density	15.407 (a)(1) 15.407 (a)(3)	PASS
8	Spurious Emissions at Antenna Terminals	2.1051, 15.407(b)	PASS
8	Antenna Requirement	15.203	PASS

3. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the Product as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

No.	Item	Uncertainty
1	3m camber Radiated spurious emission(30MHz-1GHz)	U=4.3dB
2	3m chamber Radiated spurious emission(1GHz-18GHz)	U=4.5dB
3	3m chamber Radiated spurious emission(18GHz-40GHz)	U=3.34dB
4	Conducted Adjacent channel power	U=1.38dB
5	Conducted output power uncertainty Above 1G	U=1.576dB
6	Conducted output power uncertainty below 1G	U=1.28dB
7	humidity uncertainty	U=5.3%
8	Temperature uncertainty	U=0.59℃

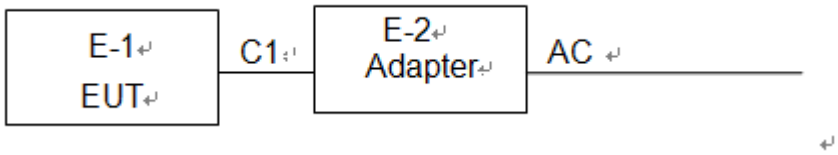
4. PRODUCT INFORMATION AND TEST SETUP

4.1 Product Information

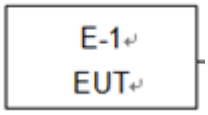
Model/Type Ref.:	V30 V20, V22, V23, V31, V32, V33, V40, V41, V42, V43, V50, V51, V52, V53, V60, V61, V62, V63, A01, A02, A03, A04, A05, A06, A07, A08, A09, A10
Model differences:	All models are identical except for the appearance color, the test model is V30 and the test results are applicable to other tests.
Hardware Version:	N/A
Software Version:	N/A
IEEE 802.11 WLAN Mode Supported	802.11a/n/ac(20MHz channel bandwidth) 802.11n/ac(40MHz channel bandwidth) 802.11ac(80MHz channel bandwidth)
Operation Frequency:	5180-5240MHz for 802.11a/n(HT20)/ac20; 5190-5230MHz for 802.11n(HT40)/ac40; 5210MHz for 802.11 ac80; 5745-5825 MHz for 802.11a/n(HT20)/ac20; 5755-5795 MHz for 802.11n(HT40)/ac40; 5775MHz for 802.11 ac80;
Data Rate	802.11a: 6,9,12,18,24,36,48,54Mbps; 802.11n(HT20/HT40):MCS0-MCS15; 802.11ac(VHT20): NSS1, MCS0-MCS8 802.11ac(VHT40/VHT80):NSS1, MCS0-MCS
Type of Modulation:	OFDM with BPSK/QPSK/16QAM/64QAM/256QAM for 802.11a/n/ac;
Number Of Channel	4 channels for 802.11a/n20 in the 5180-5240MHz band ; 2 channels for 802.11 n40 in the 5190-5230MHz band ; 1 channels for 802.11 ac80 in the 5210MHz band ; 5 channels for 802.11a/n20 in the 5745-5825MHz band ; 2 channels for 802.11 n40 in the 5755-5795MHz band ; 1 channels for 802.11 ac80 in the 5775MHz band ;
Antenna installation:	Internal antenna
Antenna Gain:	1dBi
Ratings:	DC3.8V form Battery DC5V form Adapter

4.2 Test Setup Configuration

See test photographs attached in *EUT TEST SETUP PHOTOGRAPHS* for the actual connections between Product and support equipment.
Conducted Emission:



Radiated Spurious Emission



4.3 Support Equipment

No.	Device Type	Brand	Model	Series No.	Data Cable	Power Cord
E-1	All-in-one VR	N/A	V30	N/A	EUT	E-1
E-2	Adapter	N/A	BCTC001	N/A	Auxiliary	E-2

Item	Shielded Type	Ferrite Core	Length	Note
C-1	NO	NO	0.3M	DC cable unshielded

Notes:

1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

4.4 Channel List

802.11a/n/ac(20MHz) Carrier Frequency Channel							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
36	5180	44	5220	-	-	-	-
40	5200	48	5240	-	-	-	-

802.11n /ac(40MHz) Carrier Frequency Channel							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
38	5190	-	-	-	-	-	-
46	5230	-	-	-	-	-	-

802.11ac (80MHz) Carrier Frequency Channel	
Channel	Frequency (MHz)
42	5210

Frequency and Channel list for 802.11a/n/ac(20 MHz) band IV (5745-5825MHz):

802.11a/n/ac(20 MHz) Carrier Frequency Channel							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
149	5745	153	5765	157	5785	161	5805
165	5825	-	-	-	-	-	-

802.11n/ac 40MHz Carrier Frequency Channel					
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
151	5755	159	5795	-	-

802.11ac 80MHz Carrier Frequency Channel	
Channel	Frequency (MHz)
155	5775

4.5 Test Mode

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.

Pretest Mode	Description
Mode 1	802.11a / n/ ac 20 CH36/ CH40/ CH 48 802.11a /n/ ac 20 CH149/ CH157/ CH 165
Mode 2	802.11n/ ac40 CH38/ CH 46 802.11n/ ac40 CH 151 / CH 159
Mode 3	802.11 ac80 CH 42/CH 155
Mode 4	802.11a / n/ ac 20 CH36/ CH40/ CH 48 802.11a /n/ ac 20 CH149/ CH157/ CH 165
Mode 5	Link Mode

Conducted Emission	
Final Test Mode	Description
Mode 5	Link Mode

For Radiated Emission	
Final Test Mode	Description
Mode 1	802.11a / n/ ac 20 CH36/ CH40/ CH 48 802.11a /n/ ac 20 CH149/ CH157/ CH 165
Mode 2	802.11n/ ac40 CH38/ CH 46 802.11n/ ac40 CH 151 / CH 159
Mode 3	802.11 ac80 CH 42/CH 155
Mode 4	802.11a / n/ ac 20 CH36/ CH40/ CH 48 802.11a /n/ ac 20 CH149/ CH157/ CH 165

Note:

(1) The measurements are performed at all Bit Rate of Transmitter, the worst data was reported.

4.6 table of parameters of text software setting

During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product power parameters

Test software Version	FCC_TOOL		
Parameters	DEF	DEF	DEF

5. TEST FACILITY AND TEST INSTRUMENT USED

5.1 Test Facility

All measurement facilities used to collect the measurement data are located at Shenzhen BCTC Testing Co., Ltd. Address: 1-2F, East of B Building, Pengzhou Industrial, Fuyuan 1st Road, Qiaotou Community, Fuyong Street, Bao'an District, Shenzhen, China. The site and apparatus are constructed in conformance with the requirements of ANSI C63.4 and CISPR 16-1-1 other equivalent standards.

FCC Test Firm Registration Number: 712850

IC Registered No.: 23583

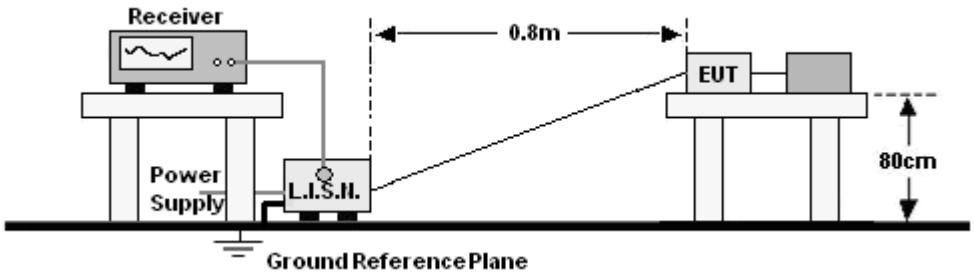
5.2 Test Instrument Used

Conducted emissions Test					
Equipment	**Manufacturer**	**Model#**	**Serial#**	**Last Cal.**	**Next Cal.**
Receiver	R&S	ESR3	102075	Jun. 08, 2020	Jun. 07, 2021
LISN	R&S	ENV216	101375	Jun. 04, 2020	Jun. 03, 2021
ISN	HPX	ISN T800	S1509001	Jun. 04, 2020	Jun. 03, 2021
Software	Frad	EZ-EMC	EMC-CON 3A1	\	\

Radiated emissions Test (966 chamber)					
Equipment	**Manufacturer**	**Model#**	**Serial#**	**Last Cal.**	**Next Cal.**
966 chamber	ChengYu	966 Room	966	Jun. 06. 2020	Jun. 05, 2023
Receiver	R&S	ESR3	102075	Jun. 08, 2020	Jun. 07, 2021
Receiver	R&S	ESRP	101154	Jun. 08, 2020	Jun. 07, 2021
Amplifier	Schwarzbeck	BBV9718	9718-309	Jun. 04, 2020	Jun. 03, 2021
Amplifier	Schwarzbeck	BBV9744	9744-0037	Jun. 04, 2020	Jun. 03, 2021
TRILOG Broadband Antenna	schwarzbeck	VULB 9163	VULB9163-942	Jun. 08, 2020	Jun. 07, 2021
Horn Antenna	SCHWARZBECK	BBHA9120D	1201	Jun. 10, 2020	Jun. 09, 2021
Horn Antenna (18GHz-40GHz)	SCHWARZBECK	BBHA9170	822	Jun. 10, 2020	Jun. 09, 2021
Amplifier (18GHz-40GHz)	MITEQ	TTA1840-35-HG	2034381	Jun. 08, 2020	Jun. 07, 2021
Loop Antenna (9KHz-30MHz)	SCHWARZBECK	FMZB1519B	014	Jun. 08, 2020	Jun. 07, 2021
RF cables1 (9kHz-30MHz)	Huber+Suhnar	9kHz-30MHz	B1702988-0008	Jun. 08, 2020	Jun. 07, 2021
RF cables2 (30MHz-1GHz)	Huber+Suhnar	30MHz-1GHz	1486150	Jun. 08, 2020	Jun. 07, 2021
RF cables3 (1GHz-40GHz)	Huber+Suhnar	1GHz-40GHz	1607106	Jun. 08, 2020	Jun. 07, 2021
Power Metter	Keysight	E4419B	\	Jun. 08, 2020	Jun. 07, 2021
Power Sensor (AV)	Keysight	E9 300A	\	Jun. 08, 2020	Jun. 07, 2021
Signal Analyzer 20kHz-26.5GHz	KEYSIGHT	N9020A	MY49100060	Jun. 04, 2020	Jun. 03, 2021
Spectrum Analyzer 9kHz-40GHz	Agilent	FSP40	100363	Jun. 13, 2020	Jun. 12, 2021
Software	Frad	EZ-EMC	FA-03A2RE	\	\

6. CONDUCTED EMISSIONS

6.1 Block Diagram Of Test Setup



6.2 Limit

FREQUENCY (MHz)	Limit (dBuV)	
	Quas-peak	Average
0.15 -0.5	66 - 56 *	56 - 46 *
0.50 -5.0	56.00	46.00
5.0 -30.0	60.00	50.00

Notes:
1. *Decreasing linearly with logarithm of frequency.
2. The lower limit shall apply at the transition frequencies.

6.3 Test procedure

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

a. The Product was placed on a nonconductive table 0.8 m above the horizontal ground reference plane, and 0.4 m from the vertical ground reference plane, and connected to the main through Line Impedance Stability Network (L.I.S.N).

b. The RBW of the receiver was set at 9 kHz in 150 kHz ~ 30MHz with Peak and AVG detector in Max Hold mode. Run the receiver's pre-scan to record the maximum disturbance generated from Product in all power lines in the full band.

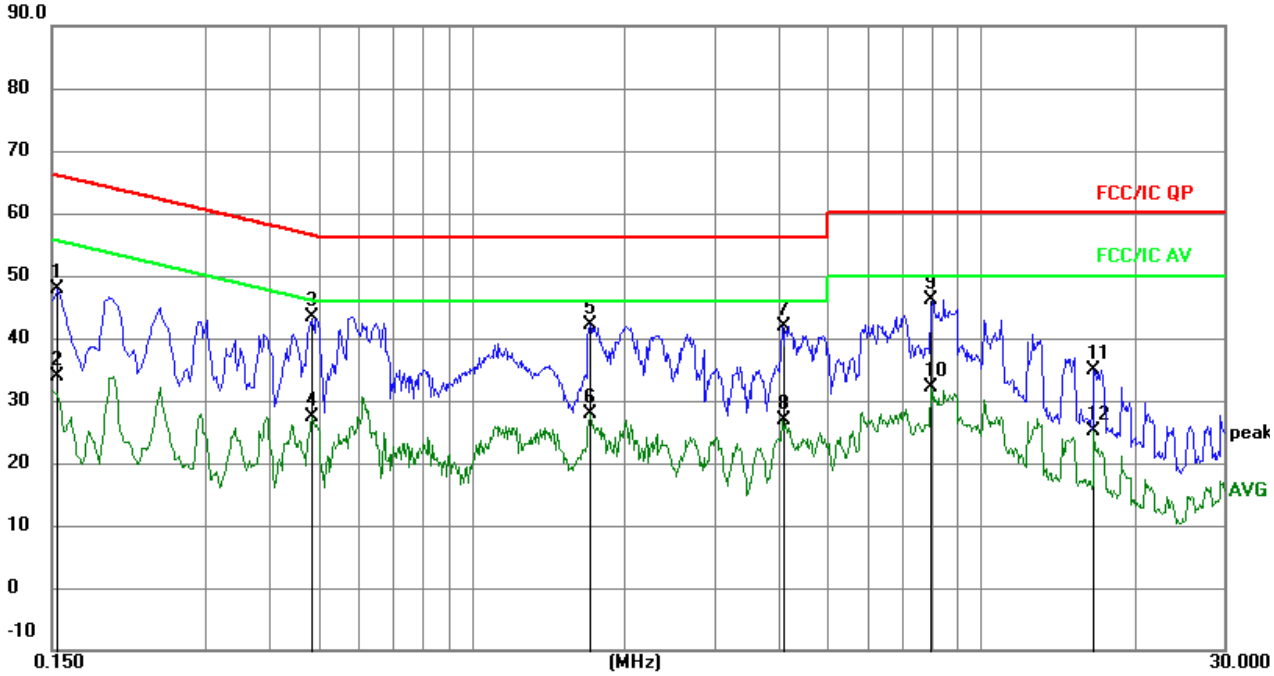
c. For each frequency whose maximum record was higher or close to limit, measure its QP and AVG values and record.

6.4 EUT operating Conditions

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

6.5 Test Result

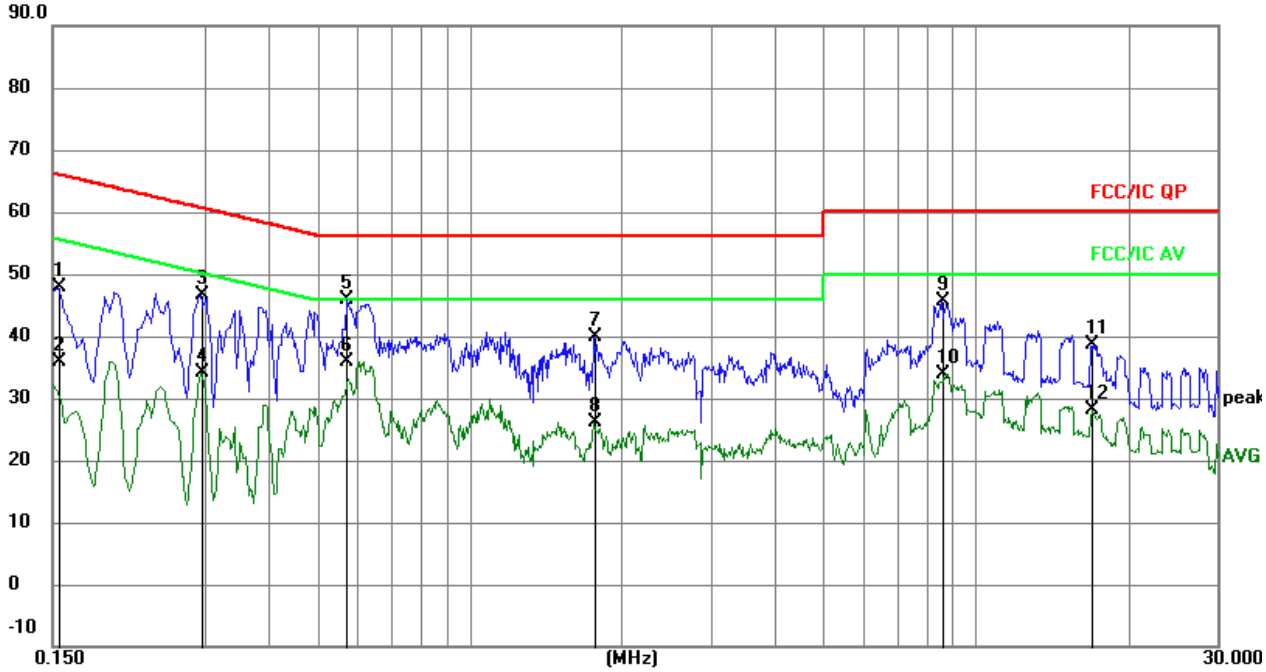
Temperature：	26 ℃	Relative Humidity：	54%
Pressure：	101kPa	Phase：	L
Test Voltage ：	AC120V/60Hz	Test Mode：	Mode 4



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

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz		dB	dBuV	dBuV	dB	Detector	Comment
1		0.1539	38.42	9.52	47.94	65.79	-17.85	QP	
2		0.1539	24.31	9.52	33.83	55.79	-21.96	AVG	
3	*	0.4863	33.91	9.58	43.49	56.23	-12.74	QP	
4		0.4863	17.80	9.58	27.38	46.23	-18.85	AVG	
5		1.7071	32.57	9.58	42.15	56.00	-13.85	QP	
6		1.7071	18.19	9.58	27.77	46.00	-18.23	AVG	
7		4.0704	32.24	9.73	41.97	56.00	-14.03	QP	
8		4.0704	17.14	9.73	26.87	46.00	-19.13	AVG	
9		7.9774	36.43	9.71	46.14	60.00	-13.86	QP	
10		7.9774	22.38	9.71	32.09	50.00	-17.91	AVG	
11		16.6612	25.19	9.73	34.92	60.00	-25.08	QP	
12		16.6612	15.38	9.73	25.11	50.00	-24.89	AVG	

Temperature：	26 ℃	Relative Humidity：	54%
Pressure：	101kPa	Phase：	N
Test Voltage ：	AC120V/60Hz	Test Mode：	Mode 4



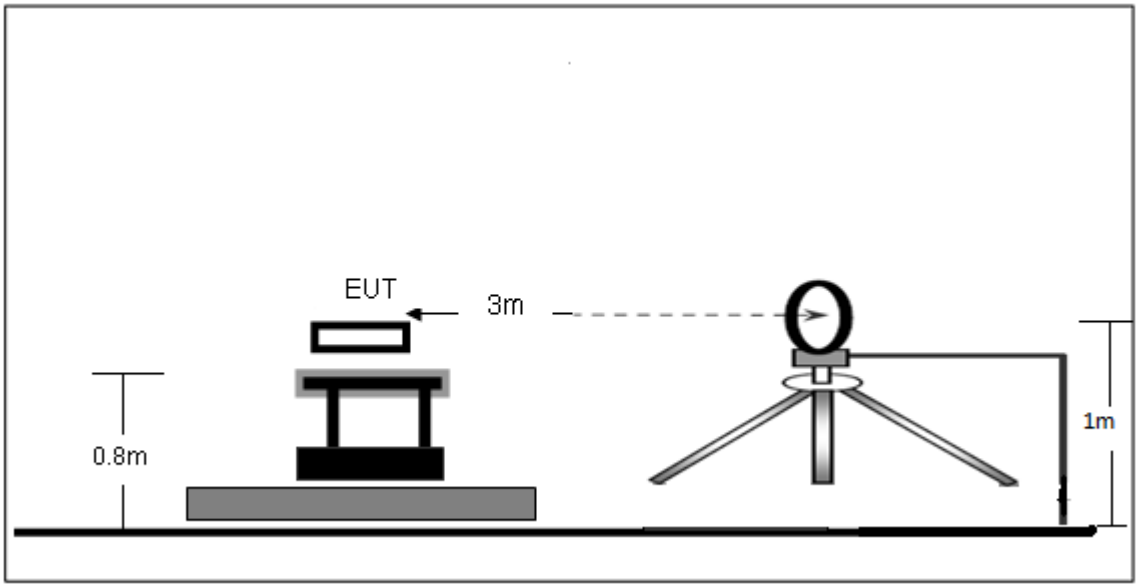
Remark:
1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz		dB	dBuV	dBuV	dB	Detector	Comment
1		0.1545	38.30	9.51	47.81	65.75	-17.94	QP	
2		0.1545	26.44	9.51	35.95	55.75	-19.80	AVG	
3		0.2940	37.06	9.57	46.63	60.41	-13.78	QP	
4		0.2940	24.51	9.57	34.08	50.41	-16.33	AVG	
5	*	0.5730	36.06	9.89	45.95	56.00	-10.05	QP	
6		0.5730	25.95	9.89	35.84	46.00	-10.16	AVG	
7		1.7655	30.40	9.59	39.99	56.00	-16.01	QP	
8		1.7655	16.59	9.59	26.18	46.00	-19.82	AVG	
9		8.5875	35.87	9.70	45.57	60.00	-14.43	QP	
10		8.5875	24.21	9.70	33.91	50.00	-16.09	AVG	
11		16.9575	28.89	9.74	38.63	60.00	-21.37	QP	
12		16.9575	18.42	9.74	28.16	50.00	-21.84	AVG	

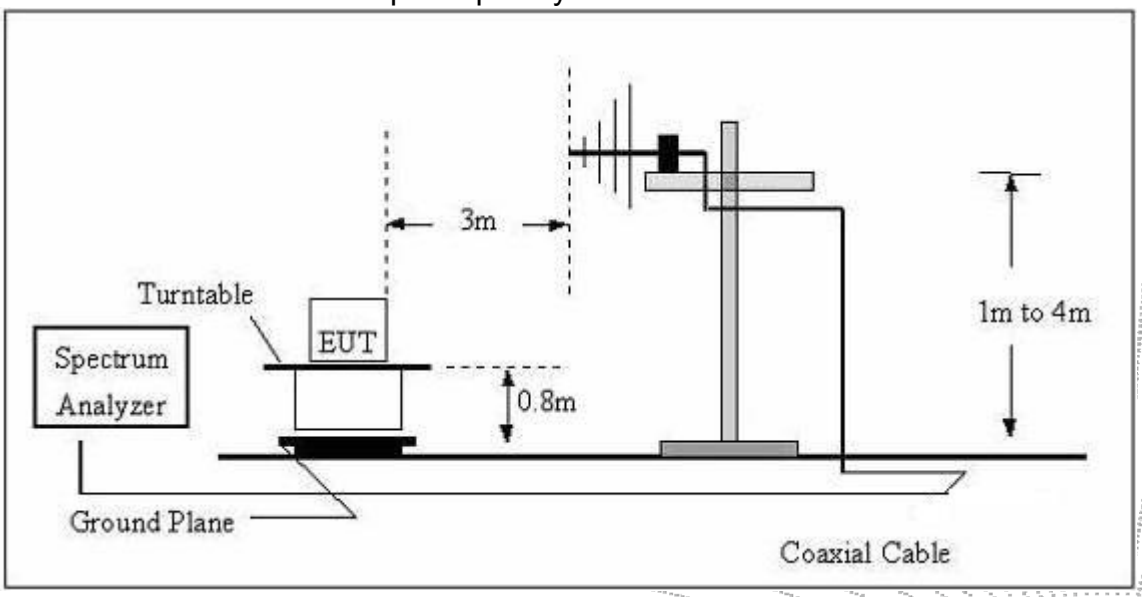
7. RADIATED EMISSIONS

7.1 Block Diagram Of Test Setup

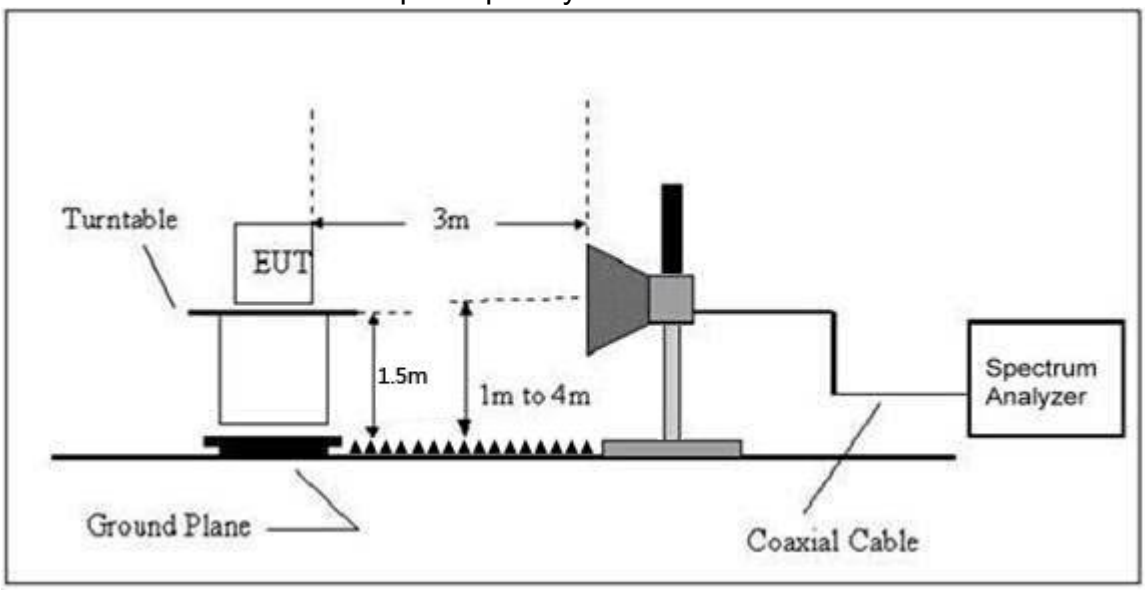
（A）Radiated Emission Test-Up Frequency Below 30MHz



（B）Radiated Emission Test-Up Frequency 30MHz~1GHz



（C）Radiated Emission Test-Up Frequency Above 1GHz



7.2 Limit

20dBc in any 100 kHz bandwidth outside the operating frequency band. 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.

Frequency	Field Strength	Distance	Field Strength Limit at 3m Distance	
(MHz)	uV/m	(m)	uV/m	dBuV/m
0.009 ~ 0.490	2400/F(kHz)	300	10000 * 2400/F(kHz)	$20\log^{(2400/F(kHz))} + 80$
0.490 ~ 1.705	24000/F(kHz)	30	100 * 24000/F(kHz)	$20\log^{(24000/F(kHz))} + 40$
1.705 ~ 30	30	30	100 * 30	$20\log^{(30)} + 40$
30 ~ 88	100	3	100	$20\log^{(100)}$
88 ~ 216	150	3	150	$20\log^{(150)}$
216 ~ 960	200	3	200	$20\log^{(200)}$
Above 960	500	3	500	$20\log^{(500)}$

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

FREQUENCY (MHz)	Limit (dBuV/m) (at 3M)	
	PEAK	AVERAGE
Above 1000	74	54

Notes:
(1)The limit for radiated test was performed according to FCC PART 15C.
(2)The tighter limit applies at the band edges.
(3) Emission level (dBuV/m)=20log Emission level (uV/m).

7.3 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

a. 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.
b. 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.
c. 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.
d. 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.
e. 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.
f. 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*lg(100 [kHz]/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.

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7.4 EUT operating Conditions

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

7.5 Test Result

Below 30MHz

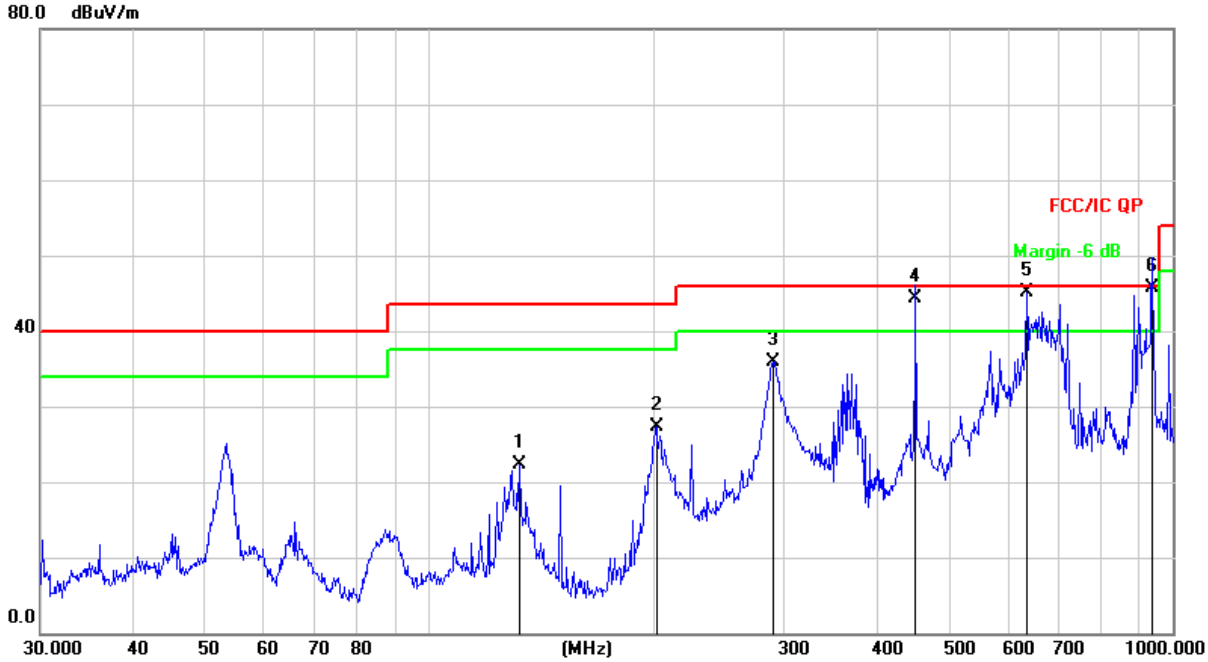
Temperature:	26℃	Relative Humidtity:	24%
Pressure:	101 kPa	Test Voltage :	DC 3.8V
Test Mode :	Mode 4	Polarization :	--

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

Note:
The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.
Distance extrapolation factor =40 log (specific distance/test distance)(dB);
Limit line = specific limits(dBuv) + distance extrapolation factor.

Between 30MHz – 1GHz

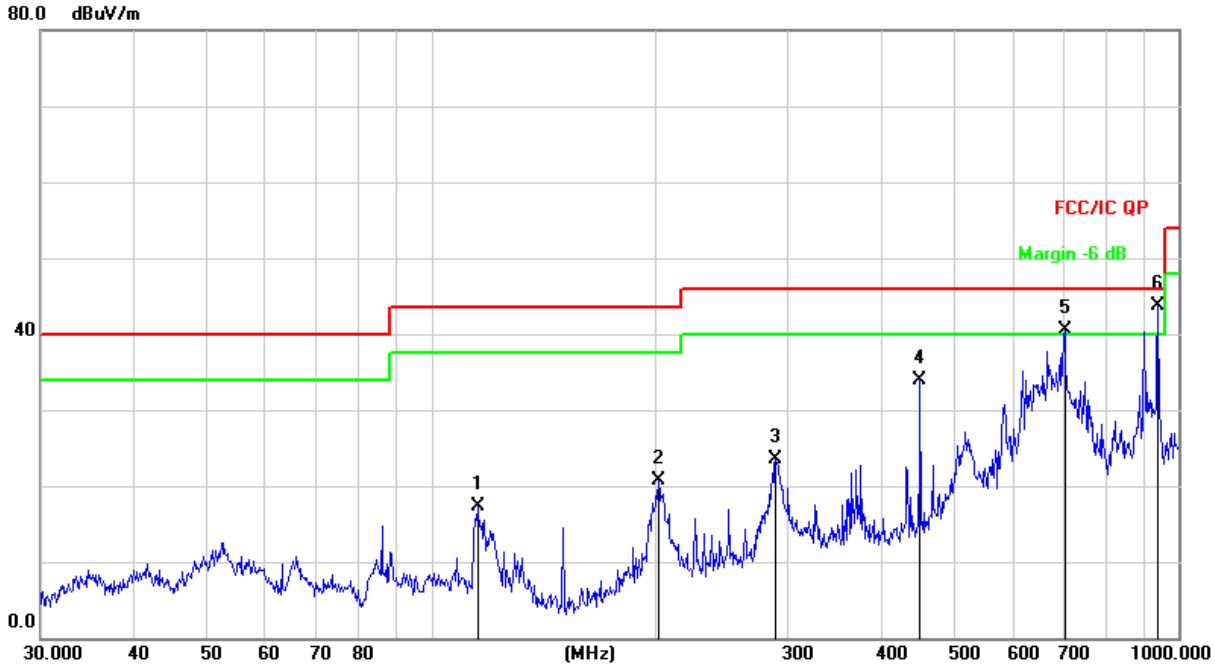
Temperature:	26℃	Relative Humidtity:	54%
Pressure:	101 kPa	Test Voltage :	DC 3.8V
Test Mode :	Mode 4	Polarization :	Horizontal



Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		132.2205	40.64	-18.36	22.28	43.50	-21.22	QP
2		202.1005	43.52	-16.25	27.27	43.50	-16.23	QP
3		290.0172	49.88	-13.91	35.97	46.00	-10.03	QP
4	!	449.9960	54.21	-9.97	44.24	46.00	-1.76	QP
5	!	636.1340	51.85	-6.73	45.12	46.00	-0.88	QP
6	*	935.9756	46.92	-1.22	45.70	46.00	-0.30	QP

Temperature:	26℃	Relative Humidtity:	54%
Pressure:	101 kpa	Test Voltage :	DC 3.8V
Test Mode :	Mode 4	Polarization :	Vertical



Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		115.3205	34.65	-17.27	17.38	43.50	-26.12	QP
2		201.3930	36.89	-16.27	20.62	43.50	-22.88	QP
3		289.0021	37.38	-13.94	23.44	46.00	-22.56	QP
4		451.1350	43.84	-9.95	33.89	46.00	-12.11	QP
5	!	704.2261	45.55	-5.07	40.48	46.00	-5.52	QP
6	*	938.8326	44.91	-1.20	43.71	46.00	-2.29	QP

Between 1GHz – 40GHz

Test Mode :	TX(5.1G) - 802.11a

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Cable loss (dB)	Antenna Factor dB/m	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
Low Channel (5180 MHz)-Above 1G									
V	4434.111	64.88	5.94	35.40	44.00	62.22	68.20	-5.98	PK
V	4434.111	43.18	5.94	35.40	44.00	40.52	54.00	-13.48	AV
V	10360.131	61.26	8.46	39.75	44.50	64.97	74.00	-9.03	PK
V	10360.131	43.73	8.46	39.75	44.50	47.44	54.00	-6.56	AV
V	15540.115	64.16	10.12	38.80	44.10	68.98	74.00	-5.02	PK
V	15540.115	43.68	10.12	38.80	42.70	49.90	54.00	-4.10	AV
H	4434.049	64.64	5.94	35.18	44.00	61.76	68.20	-6.44	PK
H	4434.049	43.26	5.94	35.18	44.00	40.38	54.00	-13.62	AV
H	10360.147	53.51	8.46	38.71	44.50	56.18	74.00	-17.82	PK
H	10360.147	42.92	8.46	38.71	44.50	45.59	54.00	-8.41	AV
H	15540.014	54.01	10.12	38.38	44.10	58.41	74.00	-15.59	PK
H	15540.014	44.25	10.12	38.38	44.10	48.65	54.00	-5.35	AV
middle Channel (5200 MHz)-Above 1G									
V	4592.193	64.24	6.48	36.35	44.05	63.02	74.00	-10.98	PK
V	4592.193	43.00	6.48	36.35	44.05	41.78	54.00	-12.22	AV
V	10400.060	62.57	8.47	37.88	44.51	64.41	68.20	-3.79	PK
V	10400.060	43.31	8.47	37.88	44.51	45.15	54.00	-8.85	AV
V	15600.134	62.40	10.12	38.80	44.10	67.22	74.00	-6.78	PK
V	15600.134	43.14	10.12	38.80	42.70	49.36	54.00	-4.64	AV
H	4592.003	61.49	6.48	36.37	44.05	60.29	74.00	-13.71	PK
H	4592.003	43.50	6.48	36.37	44.05	42.30	54.00	-11.70	AV
H	10400.098	52.55	8.47	38.64	44.50	55.16	68.20	-13.04	PK
H	10400.098	44.49	8.47	38.64	44.50	47.10	54.00	-6.90	AV
H	15600.105	51.92	10.12	38.38	44.10	56.32	74.00	-17.68	PK
H	15600.105	40.35	10.12	38.38	44.10	44.75	54.00	-9.25	AV
High Channel (5240 MHz)-Above 1G									
V	4739.158	63.69	7.10	37.24	43.50	64.53	74.00	-9.47	PK
V	4739.158	43.92	7.10	37.24	43.50	44.76	54.00	-9.24	AV
V	10480.062	64.91	8.46	37.68	44.50	66.55	68.20	-1.65	PK
V	10480.062	43.72	8.46	37.68	44.50	45.36	54.00	-8.64	AV
V	15720.155	63.60	10.12	38.80	44.10	68.42	74.00	-5.58	PK
V	15720.155	43.67	10.12	38.80	42.70	49.89	54.00	-4.11	AV
H	4739.112	64.68	7.10	37.24	43.50	65.52	74.00	-8.48	PK
H	4739.112	43.90	7.10	37.24	43.50	44.74	54.00	-9.26	AV
H	10480.183	50.07	8.46	38.57	44.50	52.60	68.20	-15.60	PK
H	10480.183	41.24	8.46	38.57	44.50	43.77	54.00	-10.23	AV
H	15720.126	54.12	10.12	38.38	44.10	58.52	74.00	-15.48	PK
H	15720.126	44.88	10.12	38.38	44.10	49.28	54.00	-4.72	AV

Note: PK value is lower than the Average value limit, So average didn't record.
The 26.5-40G 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.
The worst case is Antenna A.

Test Mode :	TX(5.1G) - 802.11n-HT20

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Cable loss (dB)	Antenna Factor dB/m	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
Low Channel (5180 MHz)-Above 1G									
V	4434.092	61.60	5.94	35.40	44.00	58.94	68.20	-9.26	PK
V	4434.092	43.73	5.94	35.40	44.00	41.07	54.00	-12.93	AV
V	10360.183	62.95	8.46	39.75	44.50	66.66	68.20	-1.54	PK
V	10360.183	43.21	8.46	39.75	44.50	46.92	54.00	-7.08	AV
V	15540.129	64.52	10.12	38.80	44.10	69.34	74.00	-4.66	PK
V	15540.129	43.53	10.12	38.80	42.70	49.75	54.00	-4.25	AV
H	4434.062	60.39	5.94	35.18	44.00	57.51	68.20	-10.69	PK
H	4434.062	43.71	5.94	35.18	44.00	40.83	54.00	-13.17	AV
H	10360.139	52.83	8.46	38.71	44.50	55.50	68.20	-12.70	PK
H	10360.139	40.25	8.46	38.71	44.50	42.92	54.00	-11.08	AV
H	15540.111	54.35	10.12	38.38	44.10	58.75	74.00	-15.25	PK
H	15540.111	44.89	10.12	38.38	44.10	49.29	54.00	-4.71	AV
middle Channel (5200 MHz)-Above 1G									
V	4592.038	61.01	6.48	36.35	44.05	59.79	74.00	-14.21	PK
V	4592.038	43.30	6.48	36.35	44.05	42.08	54.00	-11.92	AV
V	10400.157	61.69	8.47	37.88	44.51	63.53	68.20	-4.67	PK
V	10400.157	43.46	8.47	37.88	44.51	45.30	54.00	-8.70	AV
V	15600.166	63.45	10.12	38.80	44.10	68.27	74.00	-5.73	PK
V	15600.166	43.31	10.12	38.80	42.70	49.53	54.00	-4.47	AV
H	4592.138	60.64	6.48	36.37	44.05	59.44	74.00	-14.56	PK
H	4592.138	43.94	6.48	36.37	44.05	42.74	54.00	-11.26	AV
H	10400.010	54.19	8.47	38.64	44.50	56.80	68.20	-11.40	PK
H	10400.010	43.12	8.47	38.64	44.50	45.73	54.00	-8.27	AV
H	15600.004	51.04	10.12	38.38	44.10	55.44	74.00	-18.56	PK
H	15600.004	44.51	10.12	38.38	44.10	48.91	54.00	-5.09	AV
High Channel (5240 MHz)-Above 1G									
V	4739.079	63.22	7.10	37.24	43.50	64.06	74.00	-9.94	PK
V	4739.079	43.88	7.10	37.24	43.50	44.72	54.00	-9.28	AV
V	10480.008	61.27	8.46	37.68	44.50	62.91	68.20	-5.29	PK
V	10480.008	43.17	8.46	37.68	44.50	44.81	54.00	-9.19	AV
V	15720.032	60.31	10.12	38.80	44.10	65.13	74.00	-8.87	PK
V	15720.032	43.65	10.12	38.80	42.70	49.87	54.00	-4.13	AV
H	4739.119	61.18	7.10	37.24	43.50	62.02	74.00	-11.98	PK
H	4739.119	43.10	7.10	37.24	43.50	43.94	54.00	-10.06	AV
H	10480.151	53.61	8.46	38.57	44.50	56.14	68.20	-12.06	PK
H	10480.151	40.49	8.46	38.57	44.50	43.02	54.00	-10.98	AV
H	15720.186	52.88	10.12	38.38	44.10	57.28	74.00	-16.72	PK
H	15720.186	44.93	10.12	38.38	44.10	49.33	54.00	-4.67	AV

Note: PK value is lower than the Average value limit, So average didn't record.
The 26.5-40G 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.
Test Mode is MIMO Mode.

Test Mode :	TX(5.1G) - 802.11n-HT40

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Cable loss (dB)	Antenna Factor dB/m	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
Low Channel (5190 MHz)-Above 1G									
V	4434.143	64.20	5.94	35.40	44.00	61.54	74.00	-12.46	PK
V	4434.143	43.15	5.94	35.40	44.00	40.49	54.00	-13.51	AV
V	10380.096	62.88	8.46	39.75	44.50	66.59	68.20	-1.61	PK
V	10380.096	43.68	8.46	39.75	44.50	47.39	54.00	-6.61	AV
V	15570.032	61.72	10.12	38.80	44.10	66.54	74.00	-7.46	PK
V	15570.032	43.52	10.12	38.80	42.70	49.74	54.00	-4.26	AV
H	4434.173	60.04	5.94	35.18	44.00	57.16	74.00	-16.84	PK
H	4434.173	43.59	5.94	35.18	44.00	40.71	54.00	-13.29	AV
H	10380.083	54.80	8.46	38.71	44.50	57.47	68.20	-10.73	PK
H	10380.083	44.88	8.46	38.71	44.50	47.55	54.00	-6.45	AV
H	15570.037	50.63	10.12	38.38	44.10	55.03	74.00	-18.97	PK
H	15570.037	41.01	10.12	38.38	44.10	45.41	54.00	-8.59	AV
middle Channel (5230 MHz)-Above 1G									
V	4739.073	60.22	6.48	36.35	44.05	59.00	74.00	-15.00	PK
V	4739.073	43.66	6.48	36.35	44.05	42.44	54.00	-11.56	AV
V	10460.147	63.14	8.47	37.88	44.51	64.98	68.20	-3.22	PK
V	10460.147	43.04	8.47	37.88	44.51	44.88	54.00	-9.12	AV
V	15690.098	60.26	10.12	38.80	44.10	65.08	74.00	-8.92	PK
V	15690.098	43.10	10.12	38.80	42.70	49.32	54.00	-4.68	AV
H	4739.069	62.25	6.48	36.37	44.05	61.05	74.00	-12.95	PK
H	4739.069	43.85	6.48	36.37	44.05	42.65	54.00	-11.35	AV
H	10460.105	52.11	8.47	38.64	44.50	54.72	68.20	-13.48	PK
H	10460.105	44.32	8.47	38.64	44.50	46.93	54.00	-7.07	AV
H	15690.095	53.42	10.12	38.38	44.10	57.82	74.00	-16.18	PK
H	15690.095	44.52	10.12	38.38	44.10	48.92	54.00	-5.08	AV

Note: PK value is lower than the Average value limit, So average didn't record.
The 26.5-40G 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.
Test Mode is MIMO Mode.

Test Mode :	TX(5.1G) - 802.11 AC20

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Cable loss (dB)	Antenna Factor dB/m	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
Low Channel (5180 MHz)-Above 1G									
V	4434.106	63.00	5.94	35.40	44.00	60.34	68.20	-7.86	PK
V	4434.106	43.18	5.94	35.40	44.00	40.52	54.00	-13.48	AV
V	10360.082	62.14	8.46	39.75	44.50	65.85	68.20	-2.35	PK
V	10360.082	43.42	8.46	39.75	44.50	47.13	54.00	-6.87	AV
V	15540.171	62.29	10.12	38.80	44.10	67.11	74.00	-6.89	PK
V	15540.171	43.61	10.12	38.80	42.70	49.83	54.00	-4.17	AV
H	4434.022	62.46	5.94	35.18	44.00	59.58	68.20	-8.62	PK
H	4434.022	43.45	5.94	35.18	44.00	40.57	54.00	-13.43	AV
H	10360.192	50.84	8.46	38.71	44.50	53.51	68.20	-14.69	PK
H	10360.192	42.75	8.46	38.71	44.50	45.42	54.00	-8.58	AV
H	15540.173	51.61	10.12	38.38	44.10	56.01	74.00	-17.99	PK
H	15540.173	40.05	10.12	38.38	44.10	44.45	54.00	-9.55	AV
middle Channel (5200 MHz)-Above 1G									
V	4592.030	61.86	6.48	36.35	44.05	60.64	74.00	-13.36	PK
V	4592.030	43.03	6.48	36.35	44.05	41.81	54.00	-12.19	AV
V	10400.022	61.72	8.47	37.88	44.51	63.56	68.20	-4.64	PK
V	10400.022	43.51	8.47	37.88	44.51	45.35	54.00	-8.65	AV
V	15600.133	63.28	10.12	38.80	44.10	68.10	74.00	-5.90	PK
V	15600.133	43.53	10.12	38.80	42.70	49.75	54.00	-4.25	AV
H	4592.112	62.64	6.48	36.37	44.05	61.44	74.00	-12.56	PK
H	4592.112	43.90	6.48	36.37	44.05	42.70	54.00	-11.30	AV
H	10400.198	54.90	8.47	38.64	44.50	57.51	68.20	-10.69	PK
H	10400.198	44.61	8.47	38.64	44.50	47.22	54.00	-6.78	AV
H	15600.075	50.96	10.12	38.38	44.10	55.36	74.00	-18.64	PK
H	15600.075	40.21	10.12	38.38	44.10	44.61	54.00	-9.39	AV
High Channel (5240 MHz)-Above 1G									
V	4739.158	64.68	7.10	37.24	43.50	65.52	74.00	-8.48	PK
V	4739.158	43.25	7.10	37.24	43.50	44.09	54.00	-9.91	AV
V	10480.060	60.67	8.46	37.68	44.50	62.31	68.20	-5.89	PK
V	10480.060	43.77	8.46	37.68	44.50	45.41	54.00	-8.59	AV
V	15720.182	60.09	10.12	38.80	44.10	64.91	74.00	-9.09	PK
V	15720.182	43.29	10.12	38.80	42.70	49.51	54.00	-4.49	AV
H	4739.166	62.43	7.10	37.24	43.50	63.27	74.00	-10.73	PK
H	4739.166	43.47	7.10	37.24	43.50	44.31	54.00	-9.69	AV
H	10480.115	52.50	8.46	38.57	44.50	55.03	68.20	-13.17	PK
H	10480.115	41.11	8.46	38.57	44.50	43.64	54.00	-10.36	AV
H	15720.027	54.23	10.12	38.38	44.10	58.63	74.00	-15.37	PK
H	15720.027	44.94	10.12	38.38	44.10	49.34	54.00	-4.66	AV

Note: PK value is lower than the Average value limit, So average didn't record.
The 26.5-40G 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.
Test Mode is MIMO Mode.

Test Mode :	TX(5.1G) - 802.11 AC40

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Cable loss (dB)	Antenna Factor dB/m	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
Low Channel (5190 MHz)-Above 1G									
V	4434.017	64.95	5.94	35.40	44.00	62.29	74.00	-11.71	PK
V	4434.017	43.42	5.94	35.40	44.00	40.76	54.00	-13.24	AV
V	10380.179	61.35	8.46	39.75	44.50	65.06	68.20	-3.14	PK
V	10380.179	43.05	8.46	39.75	44.50	46.76	54.00	-7.24	AV
V	15570.137	64.74	10.12	38.80	44.10	69.56	74.00	-4.44	PK
V	15570.137	43.21	10.12	38.80	42.70	49.43	54.00	-4.57	AV
H	4434.141	61.08	5.94	35.18	44.00	58.20	74.00	-15.80	PK
H	4434.141	43.60	5.94	35.18	44.00	40.72	54.00	-13.28	AV
H	10380.084	53.38	8.46	38.71	44.50	56.05	68.20	-12.15	PK
H	10380.084	42.14	8.46	38.71	44.50	44.81	54.00	-9.19	AV
H	15570.006	51.36	10.12	38.38	44.10	55.76	74.00	-18.24	PK
H	15570.006	40.79	10.12	38.38	44.10	45.19	54.00	-8.81	AV
middle Channel (5230 MHz)-Above 1G									
V	4739.117	63.46	6.48	36.35	44.05	62.24	74.00	-11.76	PK
V	4739.117	43.56	6.48	36.35	44.05	42.34	54.00	-11.66	AV
V	10460.081	62.45	8.47	37.88	44.51	64.29	68.20	-3.91	PK
V	10460.081	43.26	8.47	37.88	44.51	45.10	54.00	-8.90	AV
V	15690.140	64.41	10.12	38.80	44.10	69.23	74.00	-4.77	PK
V	15690.140	43.67	10.12	38.80	42.70	49.89	54.00	-4.11	AV
H	4739.062	60.52	6.48	36.37	44.05	59.32	74.00	-14.68	PK
H	4739.062	43.54	6.48	36.37	44.05	42.34	54.00	-11.66	AV
H	10460.096	50.41	8.47	38.64	44.50	53.02	68.20	-15.18	PK
H	10460.096	40.59	8.47	38.64	44.50	43.20	54.00	-10.80	AV
H	15690.123	53.51	10.12	38.38	44.10	57.91	74.00	-16.09	PK
H	15690.123	43.76	10.12	38.38	44.10	48.16	54.00	-5.84	AV

Note: PK value is lower than the Average value limit, So average didn't record.
The 26.5-40G 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.
Test Mode is MIMO Mode.

Test Mode :	TX(5.1G) - 802.11 AC80

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Cable loss (dB)	Antenna Factor dB/m	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
(5210 MHz)-Above 1G									
V	4434.123	63.17	5.94	35.40	44.00	60.51	74.00	-13.49	PK
V	4434.123	43.42	5.94	35.40	44.00	40.76	54.00	-13.24	AV
V	10420.003	62.21	8.46	39.75	44.50	65.92	68.20	-2.28	PK
V	10420.003	43.89	8.46	39.75	44.50	47.60	54.00	-6.40	AV
V	15630.031	60.32	10.12	38.80	44.10	65.14	74.00	-8.86	PK
V	15630.031	43.55	10.12	38.80	42.70	49.77	54.00	-4.23	AV
H	4434.013	62.05	5.94	35.18	44.00	59.17	74.00	-14.83	PK
H	4434.013	43.97	5.94	35.18	44.00	41.09	54.00	-12.91	AV
H	10420.091	50.25	8.46	38.71	44.50	52.92	68.20	-15.28	PK
H	10420.091	40.63	8.46	38.71	44.50	43.30	54.00	-10.70	AV
H	15630.069	52.98	10.12	38.38	44.10	57.38	74.00	-16.62	PK
H	15630.069	41.23	10.12	38.38	44.10	45.63	54.00	-8.37	AV

Note: PK value is lower than the Average value limit, So average didn't record.
The 26.5-40G 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.
Test Mode is MIMO Mode.

Test Mode :	TX (5.8G) -- 802.11a

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Cable loss (dB)	Antenna Factor dB/m	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
Low Channel (5745 MHz)-Above 1G									
V	4679.186	64.88	5.94	35.40	44.00	62.22	74.00	-11.78	PK
V	4679.186	43.68	5.94	35.40	44.00	41.02	54.00	-12.98	AV
V	11490.064	62.39	8.46	39.75	44.50	66.10	68.20	-2.10	PK
V	11490.064	43.09	8.46	39.75	44.50	46.80	54.00	-7.20	AV
V	17235.199	64.18	10.12	38.80	44.10	69.00	74.00	-5.00	PK
V	17235.199	43.69	10.12	38.80	42.70	49.91	54.00	-4.09	AV
H	4679.154	60.74	5.94	35.18	44.00	57.86	74.00	-16.14	PK
H	4679.154	43.73	5.94	35.18	44.00	40.85	54.00	-13.15	AV
H	11490.181	52.76	8.46	38.71	44.50	55.43	68.20	-12.77	PK
H	11490.181	41.11	8.46	38.71	44.50	43.78	54.00	-10.22	AV
H	17235.196	52.86	10.12	38.38	44.10	57.26	74.00	-16.74	PK
H	17235.196	43.72	10.12	38.38	44.10	48.12	54.00	-5.88	AV
middle Channel (5785 MHz)-Above 1G									
V	4592.047	60.69	6.48	36.35	44.05	59.47	74.00	-14.53	PK
V	4592.047	43.22	6.48	36.35	44.05	42.00	54.00	-12.00	AV
V	11570.122	64.68	8.47	37.88	44.51	66.52	68.20	-1.68	PK
V	11570.122	43.94	8.47	37.88	44.51	45.78	54.00	-8.22	AV
V	17355.056	60.42	10.12	38.80	44.10	65.24	74.00	-8.76	PK
V	17355.056	43.51	10.12	38.80	42.70	49.73	54.00	-4.27	AV
H	4592.172	60.48	6.48	36.37	44.05	59.28	74.00	-14.72	PK
H	4592.172	43.60	6.48	36.37	44.05	42.40	54.00	-11.60	AV
H	11570.047	54.41	8.47	38.64	44.50	57.02	68.20	-11.18	PK
H	11570.047	44.36	8.47	38.64	44.50	46.97	54.00	-7.03	AV
H	17355.086	51.64	10.12	38.38	44.10	56.04	74.00	-17.96	PK
H	17355.086	41.28	10.12	38.38	44.10	45.68	54.00	-8.32	AV
High Channel (5825 MHz)-Above 1G									
V	6039.017	63.14	7.10	37.24	43.50	63.98	68.20	-6.32	PK
V	6039.017	43.29	7.10	37.24	43.50	44.13	54.00	-9.20	AV
V	11650.200	62.78	8.46	37.68	44.50	64.42	74.00	-8.57	PK
V	11650.200	43.76	8.46	37.68	44.50	45.40	54.00	-9.17	AV
V	17475.124	61.16	10.12	38.80	44.10	65.98	68.20	-0.34	PK
V	17475.124	43.09	10.12	38.80	42.70	49.31	54.00	-4.57	AV
H	6039.150	63.40	7.10	37.24	43.50	64.24	68.20	-4.47	PK
H	6039.150	43.59	7.10	37.24	43.50	44.43	54.00	-9.46	AV
H	11650.116	52.14	8.46	38.57	44.50	54.67	74.00	-17.62	PK
H	11650.116	43.95	8.46	38.57	44.50	46.48	54.00	-10.00	AV
H	17475.145	50.52	10.12	38.38	44.10	54.92	68.20	-12.52	PK
H	17475.145	41.18	10.12	38.38	44.10	45.58	54.00	-5.23	AV

Note: PK value is lower than the Average value limit, So average didn't record.
The 26.5-40G 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.
The Worst mode is Antenna A.

Test Mode :	TX (5.8G) --802.11n-HT20

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Cable loss (dB)	Antenna Factor dB/m	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
Low Channel (5745 MHz)-Above 1G									
V	4679.093	60.08	5.94	35.40	44.00	57.42	74.00	-16.58	PK
V	4679.093	43.92	5.94	35.40	44.00	41.26	54.00	-12.74	AV
V	11490.196	60.31	8.46	39.75	44.50	64.02	68.20	-4.18	PK
V	11490.196	43.78	8.46	39.75	44.50	47.49	54.00	-6.51	AV
V	17235.107	60.62	10.12	38.80	44.10	65.44	74.00	-8.56	PK
V	17235.107	43.56	10.12	38.80	42.70	49.78	54.00	-4.22	AV
H	4679.132	63.98	5.94	35.18	44.00	61.10	74.00	-12.90	PK
H	4679.132	43.10	5.94	35.18	44.00	40.22	54.00	-13.78	AV
H	11490.168	51.54	8.46	38.71	44.50	54.21	68.20	-13.99	PK
H	11490.168	44.07	8.46	38.71	44.50	46.74	54.00	-7.26	AV
H	17235.143	53.98	10.12	38.38	44.10	58.38	74.00	-15.62	PK
H	17235.143	42.88	10.12	38.38	44.10	47.28	54.00	-6.72	AV
middle Channel (5785 MHz)-Above 1G									
V	4592.054	64.93	6.48	36.35	44.05	63.71	74.00	-10.29	PK
V	4592.054	43.79	6.48	36.35	44.05	42.57	54.00	-11.43	AV
V	11570.171	63.54	8.47	37.88	44.51	65.38	68.20	-2.82	PK
V	11570.171	43.10	8.47	37.88	44.51	44.94	54.00	-9.06	AV
V	17355.143	62.57	10.12	38.80	44.10	67.39	74.00	-6.61	PK
V	17355.143	43.54	10.12	38.80	42.70	49.76	54.00	-4.24	AV
H	4592.167	64.05	6.48	36.37	44.05	62.85	74.00	-11.15	PK
H	4592.167	43.57	6.48	36.37	44.05	42.37	54.00	-11.63	AV
H	11570.006	54.42	8.47	38.64	44.50	57.03	68.20	-11.17	PK
H	11570.006	44.54	8.47	38.64	44.50	47.15	54.00	-6.85	AV
H	17355.190	51.25	10.12	38.38	44.10	55.65	74.00	-18.35	PK
H	17355.190	43.13	10.12	38.38	44.10	47.53	54.00	-6.47	AV
High Channel (5825 MHz)-Above 1G									
V	6039.097	61.73	7.10	37.24	43.50	62.57	68.20	-5.63	PK
V	6039.097	43.26	7.10	37.24	43.50	44.10	54.00	-9.90	AV
V	11650.094	62.20	8.46	37.68	44.50	63.84	74.00	-10.16	PK
V	11650.094	43.24	8.46	37.68	44.50	44.88	54.00	-9.12	AV
V	17475.038	64.23	10.12	38.80	44.10	69.05	68.20	0.85	PK
V	17475.038	43.18	10.12	38.80	42.70	49.40	54.00	-4.60	AV
H	6039.063	64.87	7.10	37.24	43.50	65.71	68.20	-2.49	PK
H	6039.063	43.72	7.10	37.24	43.50	44.56	54.00	-9.44	AV
H	11650.189	50.94	8.46	38.57	44.50	53.47	74.00	-20.53	PK
H	11650.189	42.07	8.46	38.57	44.50	44.60	54.00	-9.40	AV
H	17475.161	52.64	10.12	38.38	44.10	57.04	68.20	-11.16	PK
H	17475.161	43.93	10.12	38.38	44.10	48.33	54.00	-5.67	AV

Note: PK value is lower than the Average value limit, So average didn't record.
The 26.5-40G 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.
Test Mode is MIMO Mode.

Test Mode :	TX (5.8G) -- 802.11n-HT40

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Cable loss (dB)	Antenna Factor dB/m	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
Low Channel (5755 MHz)-Above 1G									
V	4679.001	64.61	5.94	35.40	44.00	61.95	74.00	-12.05	PK
V	4679.001	43.32	5.94	35.40	44.00	40.66	54.00	-13.34	AV
V	11510.051	61.90	8.46	39.75	44.50	65.61	68.20	-2.59	PK
V	11510.051	43.16	8.46	39.75	44.50	46.87	54.00	-7.13	AV
V	17265.004	61.11	10.12	38.80	44.10	65.93	74.00	-8.07	PK
V	17265.004	43.09	10.12	38.80	42.70	49.31	54.00	-4.69	AV
H	4679.124	61.41	5.94	35.18	44.00	58.53	74.00	-15.47	PK
H	4679.124	43.92	5.94	35.18	44.00	41.04	54.00	-12.96	AV
H	11510.155	50.73	8.46	38.71	44.50	53.40	68.20	-14.80	PK
H	11510.155	41.70	8.46	38.71	44.50	44.37	54.00	-9.63	AV
H	17265.013	53.17	10.12	38.38	44.10	57.57	74.00	-16.43	PK
H	17265.013	40.68	10.12	38.38	44.10	45.08	54.00	-8.92	AV
middle Channel (5795 MHz)-Above 1G									
V	6039.139	61.51	6.48	36.35	44.05	60.29	68.20	-7.91	PK
V	6039.139	43.91	6.48	36.35	44.05	42.69	54.00	-11.31	AV
V	11590.193	64.89	8.47	37.88	44.51	66.73	74.00	-7.27	PK
V	11590.193	43.76	8.47	37.88	44.51	45.60	54.00	-8.40	AV
V	17385.159	60.78	10.12	38.80	44.10	65.60	68.20	-2.60	PK
V	17385.159	43.05	10.12	38.80	42.70	49.27	54.00	-4.73	AV
H	6039.045	60.93	6.48	36.37	44.05	59.73	68.20	-8.47	PK
H	6039.045	43.64	6.48	36.37	44.05	42.44	54.00	-11.56	AV
H	11590.059	51.04	8.47	38.64	44.50	53.65	74.00	-20.35	PK
H	11590.059	41.84	8.47	38.64	44.50	44.45	54.00	-9.55	AV
H	17385.085	52.11	10.12	38.38	44.10	56.51	68.20	-11.69	PK
H	17385.085	41.25	10.12	38.38	44.10	45.65	54.00	-8.35	AV

Note: PK value is lower than the Average value limit, So average didn't record.
The 26.5-40G 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.
The Worst mode is Antenna A.

Test Mode :	TX (5.8G) --802.11AC20

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Cable loss (dB)	Antenna Factor dB/m	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
Low Channel (5745 MHz)-Above 1G									
V	4679.039	64.41	5.94	35.40	44.00	61.75	74.00	-12.25	PK
V	4679.039	43.85	5.94	35.40	44.00	41.19	54.00	-12.81	AV
V	11490.165	63.66	8.46	39.75	44.50	67.37	68.20	-0.83	PK
V	11490.165	43.97	8.46	39.75	44.50	47.68	54.00	-6.32	AV
V	17235.106	62.47	10.12	38.80	44.10	67.29	74.00	-6.71	PK
V	17235.106	43.59	10.12	38.80	42.70	49.81	54.00	-4.19	AV
H	4679.168	61.39	5.94	35.18	44.00	58.51	74.00	-15.49	PK
H	4679.168	43.73	5.94	35.18	44.00	40.85	54.00	-13.15	AV
H	11490.044	51.17	8.46	38.71	44.50	53.84	68.20	-14.36	PK
H	11490.044	41.62	8.46	38.71	44.50	44.29	54.00	-9.71	AV
H	17235.082	51.55	10.12	38.38	44.10	55.95	74.00	-18.05	PK
H	17235.082	41.38	10.12	38.38	44.10	45.78	54.00	-8.22	AV
middle Channel (5785 MHz)-Above 1G									
V	4592.094	64.68	6.48	36.35	44.05	63.46	74.00	-10.54	PK
V	4592.094	43.00	6.48	36.35	44.05	41.78	54.00	-12.22	AV
V	11570.020	63.44	8.47	37.88	44.51	65.28	68.20	-2.92	PK
V	11570.020	43.25	8.47	37.88	44.51	45.09	54.00	-8.91	AV
V	17355.052	61.95	10.12	38.80	44.10	66.77	74.00	-7.23	PK
V	17355.052	43.90	10.12	38.80	42.70	50.12	54.00	-3.88	AV
H	4592.058	64.81	6.48	36.37	44.05	63.61	74.00	-10.39	PK
H	4592.058	43.40	6.48	36.37	44.05	42.20	54.00	-11.80	AV
H	11570.185	50.85	8.47	38.64	44.50	53.46	68.20	-14.74	PK
H	11570.185	40.67	8.47	38.64	44.50	43.28	54.00	-10.72	AV
H	17355.152	52.60	10.12	38.38	44.10	57.00	74.00	-17.00	PK
H	17355.152	42.71	10.12	38.38	44.10	47.11	54.00	-6.89	AV
High Channel (5825 MHz)-Above 1G									
V	6039.101	63.31	7.10	37.24	43.50	64.15	68.20	-4.05	PK
V	6039.101	43.96	7.10	37.24	43.50	44.80	54.00	-9.20	AV
V	11650.001	61.00	8.46	37.68	44.50	62.64	74.00	-11.36	PK
V	11650.001	43.73	8.46	37.68	44.50	45.37	54.00	-8.63	AV
V	17475.111	61.05	10.12	38.80	44.10	65.87	68.20	-2.33	PK
V	17475.111	43.78	10.12	38.80	42.70	50.00	54.00	-4.00	AV
H	6039.179	61.25	7.10	37.24	43.50	62.09	68.20	-6.11	PK
H	6039.179	43.12	7.10	37.24	43.50	43.96	54.00	-10.04	AV
H	11650.166	53.72	8.46	38.57	44.50	56.25	74.00	-17.75	PK
H	11650.166	44.19	8.46	38.57	44.50	46.72	54.00	-7.28	AV
H	17475.040	51.27	10.12	38.38	44.10	55.67	68.20	-12.53	PK
H	17475.040	42.98	10.12	38.38	44.10	47.38	54.00	-6.62	AV

Note: PK value is lower than the Average value limit, So average didn't record.
The 26.5-40G 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.
Test Mode is MIMO Mode.

Test Mode :	TX (5.8G) -- 802.11AC40

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Cable loss (dB)	Antenna Factor dB/m	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
Low Channel (5755 MHz)-Above 1G									
V	4679.019	62.32	5.94	35.40	44.00	59.66	74.00	-14.34	PK
V	4679.019	43.18	5.94	35.40	44.00	40.52	54.00	-13.48	AV
V	11510.190	61.03	8.46	39.75	44.50	64.74	68.20	-3.46	PK
V	11510.190	43.40	8.46	39.75	44.50	47.11	54.00	-6.89	AV
V	17265.045	63.89	10.12	38.80	44.10	68.71	74.00	-5.29	PK
V	17265.045	43.70	10.12	38.80	42.70	49.92	54.00	-4.08	AV
H	4679.068	60.54	5.94	35.18	44.00	57.66	74.00	-16.34	PK
H	4679.068	43.31	5.94	35.18	44.00	40.43	54.00	-13.57	AV
H	11510.170	50.74	8.46	38.71	44.50	53.41	68.20	-14.79	PK
H	11510.170	44.34	8.46	38.71	44.50	47.01	54.00	-6.99	AV
H	17265.071	51.24	10.12	38.38	44.10	55.64	74.00	-18.36	PK
H	17265.071	40.47	10.12	38.38	44.10	44.87	54.00	-9.13	AV
middle Channel (5795 MHz)-Above 1G									
V	6039.076	63.01	6.48	36.35	44.05	61.79	68.20	-6.41	PK
V	6039.076	43.33	6.48	36.35	44.05	42.11	54.00	-11.89	AV
V	11590.127	63.98	8.47	37.88	44.51	65.82	74.00	-8.18	PK
V	11590.127	43.51	8.47	37.88	44.51	45.35	54.00	-8.65	AV
V	17385.184	60.55	10.12	38.80	44.10	65.37	68.20	-2.83	PK
V	17385.184	43.59	10.12	38.80	42.70	49.81	54.00	-4.19	AV
H	6039.130	60.29	6.48	36.37	44.05	59.09	68.20	-9.11	PK
H	6039.130	43.84	6.48	36.37	44.05	42.64	54.00	-11.36	AV
H	11590.127	52.47	8.47	38.64	44.50	55.08	74.00	-18.92	PK
H	11590.127	42.50	8.47	38.64	44.50	45.11	54.00	-8.89	AV
H	17385.124	53.82	10.12	38.38	44.10	58.22	68.20	-9.98	PK
H	17385.124	43.51	10.12	38.38	44.10	47.91	54.00	-6.09	AV

Note: PK value is lower than the Average value limit, So average didn't record.
The 26.5-40G 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.
The Worst mode is Antenna A.

Test Mode :	TX(5.8G) - 802.11 AC80

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Cable loss (dB)	Antenna Factor dB/m	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
(5775 MHz)-Above 1G									
V	4679.149	60.42	5.94	35.40	44.00	57.76	74.00	-16.24	PK
V	4679.149	43.39	5.94	35.40	44.00	40.73	54.00	-13.27	AV
V	11550.108	60.91	8.46	39.75	44.50	64.62	68.20	-3.58	PK
V	11550.108	43.07	8.46	39.75	44.50	46.78	54.00	-7.22	AV
V	17325.037	63.60	10.12	38.80	44.10	68.42	74.00	-5.58	PK
V	17325.037	43.67	10.12	38.80	42.70	49.89	54.00	-4.11	AV
H	4679.127	63.90	5.94	35.18	44.00	61.02	74.00	-12.98	PK
H	4679.127	43.07	5.94	35.18	44.00	40.19	54.00	-13.81	AV
H	11550.194	52.66	8.46	38.71	44.50	55.33	68.20	-12.87	PK
H	11550.194	41.58	8.46	38.71	44.50	44.25	54.00	-9.75	AV
H	17325.007	51.50	10.12	38.38	44.10	55.90	74.00	-18.10	PK
H	17325.007	41.39	10.12	38.38	44.10	45.79	54.00	-8.21	AV

Note: PK value is lower than the Average value limit, So average didn't record.
The 26.5-40G 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.
Test Mode is MIMO Mode.

8. POWER SPECTRAL DENSITY TEST

8.1 Block Diagram Of Test Setup

8.2 Limit

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 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.

8.3 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 ≥ 1/T, where T is defined in section II.B.I.a).

b) Set VBW ≥ 3 RBW.

c) If measurement bandwidth of Maximum PSD is specified in 500 kHz, add 10log(500kHz/RBW) to the measured result, whereas RBW (< 500 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 10log(1MHz/RBW) to the measured result, whereas RBW (< 1 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 KHZ is available on nearly all spectrum analyzers.

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8.4 EUT operating Conditions

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

8.5 Test Result

Temperature：	26 ℃	Relative Humidity：	54%
Pressure：	101kPa	Test Voltage ：	DC 3.8V
Test Mode ：	TX Frequency U-NII-1 (5180-5240MHz)		

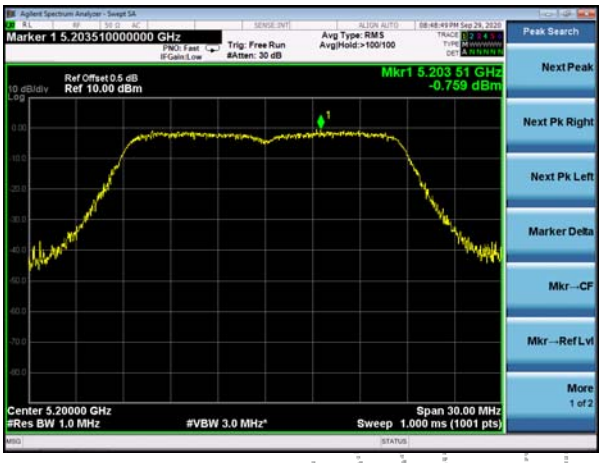
Mode	Frequency	Measured Power Density (dBm/MHz)	Limit (dBm/MHz)	Result
802.11 a	5180 MHz	-1.781	11	PASS
	5200 MHz	-1.042	11	PASS
	5240 MHz	-0.918	11	PASS
802.11 n20	5180 MHz	-0.718	11	PASS
	5200 MHz	-0.759	11	PASS
	5240 MHz	-1.225	11	PASS
802.11 n40	5190 MHz	-3.686	11	PASS
	5230 MHz	-4.033	11	PASS
802.11 AC20	5180 MHz	-2.274	11	PASS
	5200 MHz	-1.669	11	PASS
	5240 MHz	-2.776	11	PASS
802.11 AC40	5190 MHz	-3.385	11	PASS
	5230 MHz	-4.035	11	PASS
802.11 AC80	5210 MHz	-5.354	11	PASS

(802.11a) PSD plot on channel 36

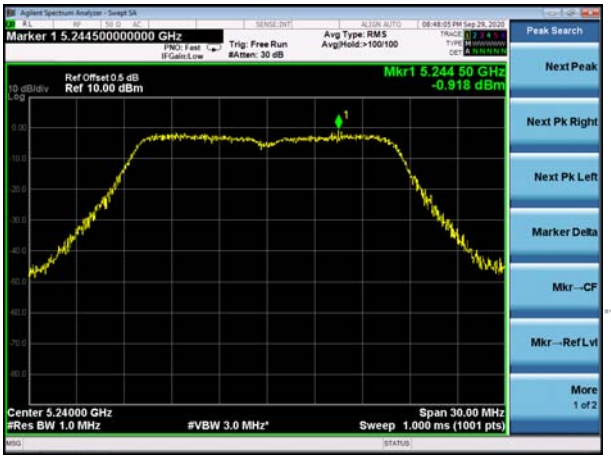
(802.11n20) PSD plot on channel 36

(802.11a) PSD plot on channel 40

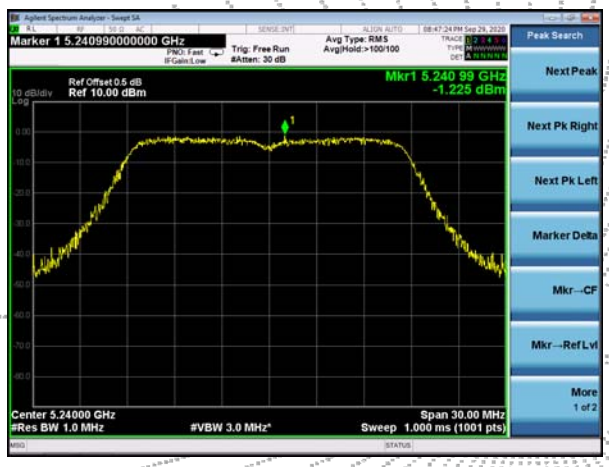
(802.11n20) PSD plot on channel 40



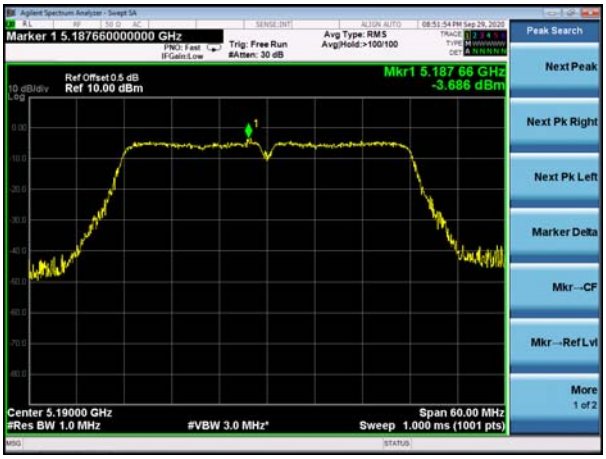
(802.11a) PSD plot on channel 48



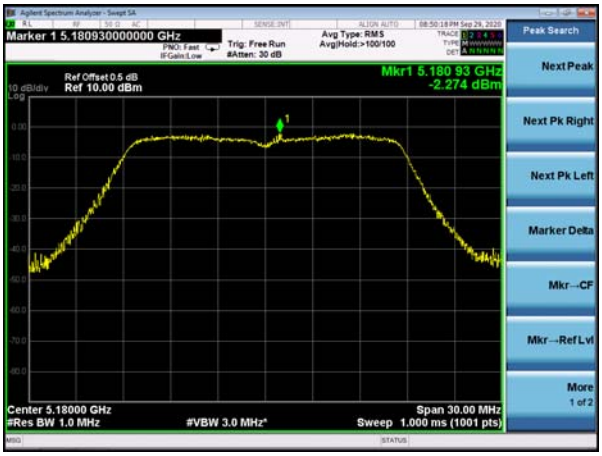
(802.11n20) PSD plot on channel 48



(802.11n40) PSD plot on channel 38



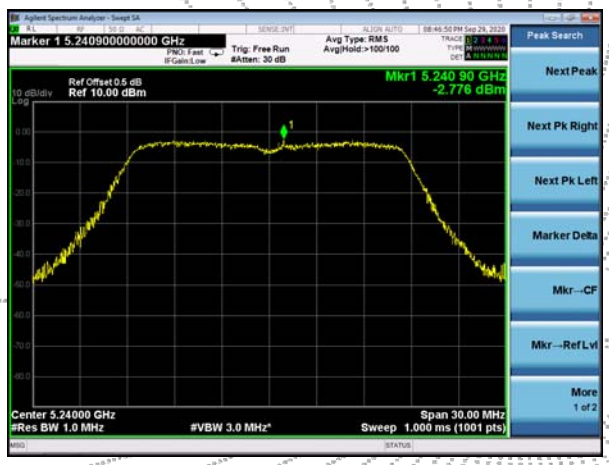
(802.11ac20) PSD plot on channel 36



(802.11n40) PSD plot on channel 46

(802.11ac20) PSD plot on channel 40

(802.11ac20) PSD plot on channel 48



(802.11ac40) PSD plot on channel 38

(802.11ac80) PSD plot on channel 42

(802.11ac40) PSD plot on channel 46

Temperature：	26 ℃	Relative Humidity：	54%
Pressure：	101kPa	Test Voltage ：	DC 3.8V
Test Mode ：	TX Frequency U-NII-3 (5745-5825MHz)		

Mode	Frequency	Measured Power Density (dBm/500kHz)	Limit (dBm/500kHz)	Result
802.11 a	5745 MHz	-1.689	30	PASS
	5785 MHz	-3.778	30	PASS
	5825 MHz	-5.521	30	PASS
802.11 n20	5745 MHz	-0.947	30	PASS
	5785 MHz	-4.248	30	PASS
	5825 MHz	-5.936	30	PASS
802.11 n40	5755 MHz	-4.172	30	PASS
	5795 MHz	-4.552	30	PASS
802.11 AC20	5745 MHz	-2.755	30	PASS
	5785 MHz	-4.215	30	PASS
	5825 MHz	-5.998	30	PASS
802.11 AC40	5755 MHz	-4.183	30	PASS
	5795 MHz	-4.319	30	PASS
802.11 AC80	5775 MHz	-4.310	30	PASS

(802.11a) PSD plot on channel 149

(802.11n20) PSD plot on channel 149

(802.11a) PSD plot on channel 157

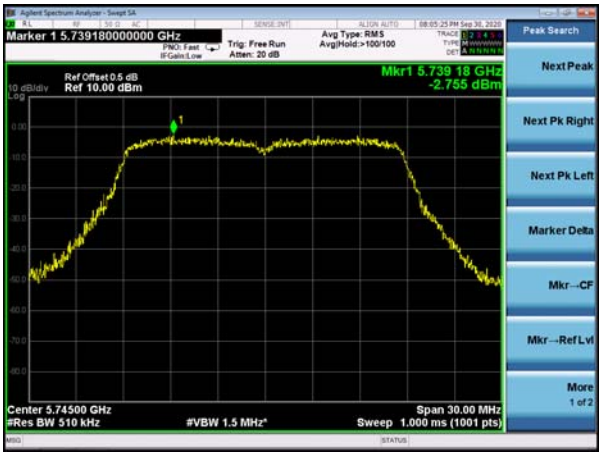
(802.11n20) PSD plot on channel 157

(802.11a) PSD plot on channel 165

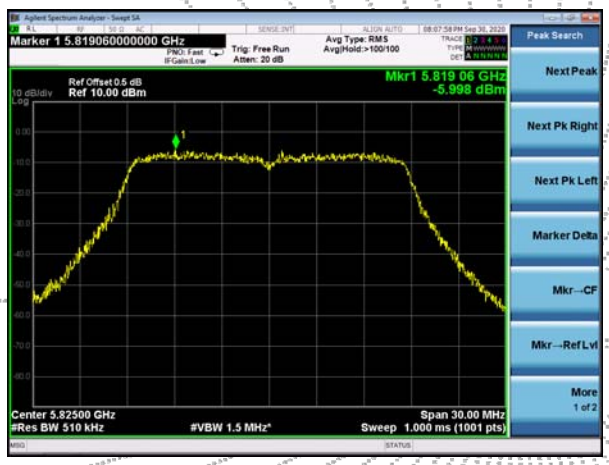
(802.11n20) PSD plot on channel 165

(802.11n40) PSD plot on channel 151

(802.11ac20) PSD plot on channel 149



(802.11n40) PSD plot on channel 159

(802.11ac20) PSD plot on channel 157

(802.11ac20) PSD plot on channel 165