FCC Test Report

Product Name ： Dual-Band Wireless USB adapter

Trade Name ： ASUS

Model No. ： USB-AC56, USB-AC56R

FCC ID. ： MSQ-USBAC56

Applicant ： ASUSTeK COMPUTER INC.

Address ： 4F, No. 150, Li-Te Rd., Peitou, Taipei, Taiwan

Date of Receipt ： Oct. 01, 2019

Issued Date ： Nov. 20, 2019

Report No. ： 19A0012R-RFUSP54V00

Report Version ： V1.0

Testing Laboratory

3024

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Test Report Certification

Issued Date : Nov. 20, 2019
Report No. : 19A0012R-RFUSP54V00

Product Name	:	Dual-Band Wireless USB adapter
Applicant	:	ASUSTeK COMPUTER INC.
Address	:	4F, No. 150, Li-Te Rd., Peitou, Taipei, Taiwan
Manufacturer	:	ASUSTeK COMPUTER INC.
Model No.	:	USB-AC56, USB-AC56R
FCC ID.	:	MSQ-USBAC56
EUT Voltage	:	DC 5V (Power by PC)
Testing Voltage	:	DC 5V (Power by PC)
Trade Name	:	ASUS
Applicable Standard	:	FCC CFR Title 47 Part 15 Subpart E Section 15.407: 2018 ANSI C63.10: 2013
Laboratory Name	:	Hsin Chu Laboratory
Address	:	No.372-2, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu County 310, Taiwan, R.O.C. TEL: +886-3-582-8001 / FAX: +886-3-582-8958
Test Result	:	Complied

Documented By :

(Demi Chang / Senior Engineering Adm. Specialist)

Tested By :

(Scott Chang / Engineer)

Approved By :

(Louis Hsu / Deputy Manager)

Revision History

Report No.	Version	Description	Issued Date
19A0012R-RFUSP54V00	V1.0	This device is re-tested the unwanted emission on the basis of 15.407 b) i) under MO&O (Memorandum Opinion and Order) FCC 16-24. And verified the conducted emission, occupied bandwidth, minimum emission bandwidth, output power, power density and bandedge test items.	Nov. 20, 2019

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1. General Information

1.1. EUT Description

Product Name	Dual-Band Wireless USB adapter	
Trade Name	ASUS	
Model No.	USB-AC56, USB-AC56R	
Frequency Range/ Channel Number	IEEE 802.11a/ IEEE 802.11n (20MHz) / IEEE 802.11ac (20MHz)	5745~5825MHz / 5 Channels
	IEEE 802.11n (40MHz) / IEEE 802.11ac (40MHz)	5755~5795MHz / 2 Channels
	IEEE 802.11ac (80MHz)	5775~5775MHz / 1 Channel
Type of Modulation	IEEE 802.11a/n/ac	Orthogonal Frequency Division Multiplexing (OFDM)
Data Speed	IEEE 802.11a	6, 12, 18, 24, 36, 48, 54Mbps
	IEEE 802.11n	Support a subset of the combination of GI, MCS 0~MCS15 and bandwidth defined in 802.11n
	IEEE 802.11ac	Support a subset of the combination of GI, MCS 0~MCS 9 and bandwidth defined in 802.11ac

Antenna Information	
Antenna Type	Dipole Antenna & PIFA Antenna
Effective Antenna Gain	Dipole Antenna : 5G : Ant0 : 2.00dBi PIFA Antenna : 5G : Ant0 : 2.28dBi , Ant1 : 2.38dBi

Accessories Information	
USB Cable	Shielded, 0.9m

ANT-TX / RX & Bandwidth

ANT-TX / RX	TX			RX		
Mode/ Channel Bandwidth	20MHz	40MHz	80MHz	20MHz	40MHz	80MHz
IEEE802.11a	✓			✓		
IEEE802.11n	✓	✓		✓	✓	
IEEE802.11ac	✓	✓	✓	✓	✓	✓

IEEE 802.11n

MCS Index	Modulation	R	N_{BPSCS}	N_{CBPS}		N_{DBPS}		Data Rate(Mb/s)			
								800ns GI		400ns GI	
				20MHz	40MHz	20MHz	40MHz	20MHz	40MHz	20MHz	40MHz
0	BPSK	1/2	1	52	108	26	54	6.5	13.5	7.2	15.0
1	QPSK	1/2	2	104	216	52	108	13.0	27.0	14.4	30.0
2	QPSK	3/4	2	104	216	78	162	19.5	40.5	21.7	45.0
3	16-QAM	1/2	4	208	432	104	216	26.0	54.0	28.9	60.0
4	16-QAM	3/4	4	208	432	156	324	39.0	81.0	43.3	90.0
5	64-QAM	2/3	6	312	648	208	432	52.0	108.0	57.8	120.0
6	64-QAM	3/4	6	312	648	234	486	58.5	121.5	65.0	135.0
7	64-QAM	5/6	6	312	648	260	540	65.0	135.0	72.2	150.0
Note 1: Support of 400ns GI is optional on transmit and receive.											

Table 1 – MCS parameters for TX Antenna number = 1

MCS Index	Modulation	R	N_{BPSCS}	N_{CBPS}		N_{DBPS}		Data Rate(Mb/s)			
								800ns GI		400ns GI	
				20MHz	40MHz	20MHz	40MHz	20MHz	40MHz	20MHz	40MHz
8	BPSK	1/2	1	104	216	52	108	13.0	27.0	14.4	30.0
9	QPSK	1/2	2	208	432	104	216	26.0	54.0	28.9	60.0
10	QPSK	3/4	2	208	432	156	324	39.0	81.0	43.3	90.0
11	16-QAM	1/2	4	416	864	208	432	52.0	108.0	57.8	120.0
12	16-QAM	3/4	4	416	864	312	648	78.0	162.0	86.7	180.0
13	64-QAM	2/3	6	624	1296	416	864	104.0	216.0	115.6	240.0
14	64-QAM	3/4	6	624	1296	468	972	117.0	243.0	130.0	270.0
15	64-QAM	5/6	6	624	1296	520	1080	130.0	270.0	144.4	300.0
Note 1: Support of 400ns GI is optional on transmit and receive.											

Table 2 – MCS parameters for TX Antenna number = 2

Symbol	Explanation
R	Code rate
N_{BPSC}	Number of coded bits per single carrier
N_{CBPS}	Number of coded bits per symbol
N_{DBPS}	Number of data bits per symbol
GI	guard interval

IEEE 802.11ac Data Rate

Spatial Streams (Note1)	MCS Index	Modulation type	Coding rate	Data Rate(Mb/s)					
				20 MHz		40 MHz		80 MHz	
				Guard Interval		Guard Interval		Guard Interval	
				800ns	400ns	800ns	400ns	800ns	400ns
1	0	BPSK	1/2	6.5	7.2	13.5	15	29.3	32.5
	1	QPSK	1/2	13	14.4	27	30	58.5	65
	2	QPSK	3/4	19.5	21.7	40.5	45	87.8	97.5
	3	16-QAM	1/2	26	28.9	54	60	117	130
	4	16-QAM	3/4	39	43.3	81	90	175.5	195
	5	64-QAM	2/3	52	57.8	108	120	234	260
	6	64-QAM	3/4	58.5	65	121.5	135	263.3	292.5
	7	64-QAM	5/6	65	72.2	135	150	292.5	325
	8	256-QAM	3/4	78	86.7	162	180	351	390
	9	256-QAM	5/6	N/A	N/A	180	200	390	433.3
2	0	BPSK	1/2	13	14.4	27	30	58.6	65
	1	QPSK	1/2	26	28.8	54	60	117	130
	2	QPSK	3/4	39	43.4	81	90	175.6	195
	3	16-QAM	1/2	52	57.8	108	120	234	260
	4	16-QAM	3/4	78	86.6	162	180	351	390
	5	64-QAM	2/3	104	115.6	216	240	468	520
	6	64-QAM	3/4	117	130	243	270	526.6	585
	7	64-QAM	5/6	130	144.4	270	300	585	650
	8	256-QAM	3/4	156	173.4	324	360	702	780
	9	256-QAM	5/6	N/A	N/A	360	400	780	866.6

IEEE 802.11a & IEEE 802.11n (20MHz) & IEEE 802.11ac (20MHz)

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

IEEE 802.11n (40MHz) & IEEE 802.11ac (40MHz)

Working Frequency of Each Channel				
Channel	Frequency	Channel	Frequency	
151	5755 MHz	159	5795 MHz	

IEEE 802.11ac (80MHz)

Working Frequency of Each Channel	
Channel	Frequency
155	5775 MHz

Note:

1. This device is a Dual-Band Wireless USB adapter including 2.4GHz b/g/n (2x2) and 5GHz a/n/ac (2x2) transmitting and receiving function.
2. Regards to the frequency band operation; the lowest、middle and highest frequency of channel were selected to perform the test, and then shown on this report.
3. The EUT description is from the customer declaration.

1.2. Report History

Report No.	Version	Description
135176R-RFUSP42V01	V1.0	Initial issue of report
1450102R-RFUSP38V00	V1.0	Add Model No.: USB-AC56R & Change Product Name.
1620124R-RFUSP57V00-C	V1.0	Update WLAN 5G band 4 standard to FCC 15.407, and verify Power Density, Frequency Stability tested. The WLAN 2.4G test data, please refer to the 1450102R-RFUSP38V00.

1.3. Test Mode

DEKRA has verified the construction and function in typical operation. The preliminary tests were performed in different data rate, and to find the worst condition, which was shown in this test report. The following table is the final test mode.

Test Mode	Mode 1: Transmit (Dipole Antenna) Mode 2: Transmit (PIFA Antenna)

Test Items	Modulation	Channel	Antenna	Result
Conducted Emission	11ac (80MHz)	155	0+1	Complies
99% & Minimum Emission Bandwidth	a	149/157/165	0	Complies
	11n/ac (20MHz)	149/157/165	0/1	Complies
	11n/ac (40MHz)	151/159	0/1	Complies
	11ac (80MHz)	155	0/1	Complies
Maximum conducted output power	a	149/157/165	0	Complies
	11n/ac (20MHz)	149/157/165	0+1	Complies
	11n/ac (40MHz)	151/159	0+1	Complies
	11ac (80MHz)	155	0+1	Complies
Maximum power spectral density	a	149/157/165	0	Complies
	11n/ac (20MHz)	149/157/165	0+1	Complies
	11n/ac (40MHz)	151/159	0+1	Complies
	11ac (80MHz)	155	0+1	Complies
Radiated Emission	a	149/157/165	0	Complies
	11n/ac (20MHz)	149/157/165	0+1	Complies
	11n/ac (40MHz)	151/159	0+1	Complies
	11ac (80MHz)	155	0+1	Complies
Band Edge	a	149/157/165	0	Complies
	11n/ac (20MHz)	149/157/165	0/1	Complies
	11n/ac (40MHz)	151/159	0/1	Complies
	11ac (80MHz)	155	0/1	Complies

Determining compliance shall be based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

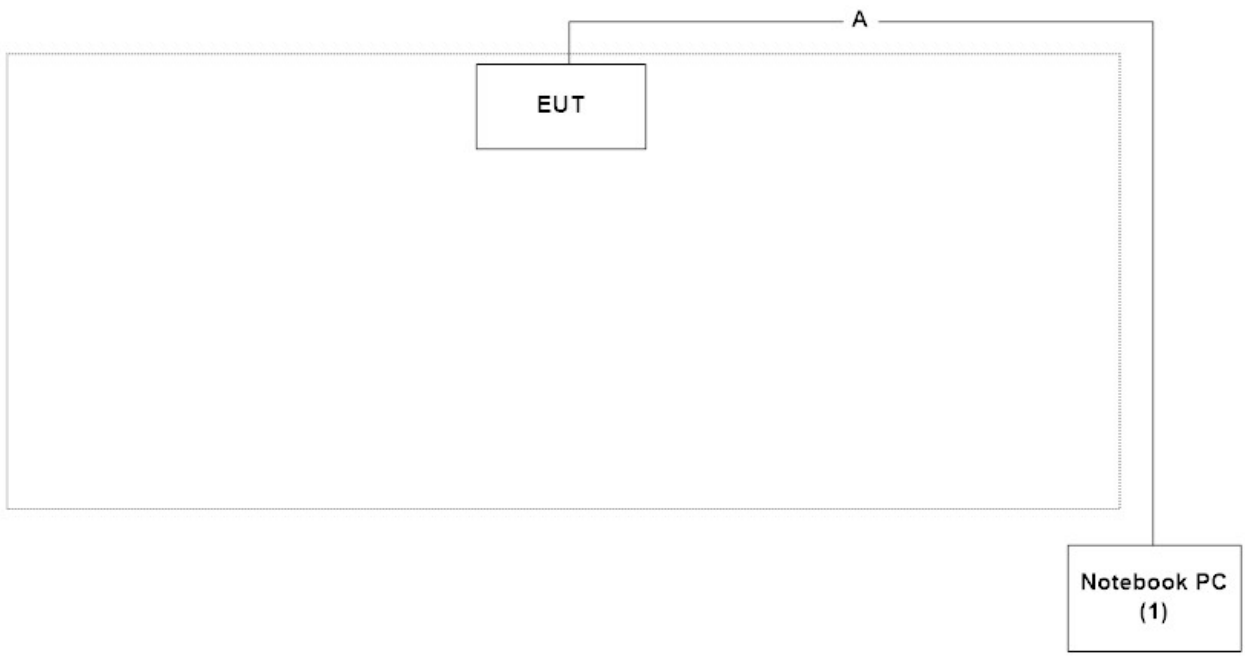
1.4. Tested System Details

The types for all equipments, plus descriptions of all cables used in the tested system (including inserted cards) are:

Product		Manufacturer	Model No.	Serial No.	FCC ID	Power Cord
1	Notebook PC	DELL	Vostro3400	7F808N1	DoC	Non-Shielded, 1.8m

1.5. Configuration of tested System

Connection Diagram



Signal Cable Type		Signal cable Description
A	USB Cable	Shielded, 2m

1.6. EUT Exercise Software

1	Setup the EUT as shown in Section 1.5.
2	Execute the test program “M Tool” on the Notebook.
3	Configure the test mode, the test channel, and the data rate.
4	Press “Start TX” to start the continuous transmitting.
5	Verify that the EUT works properly.

1.7. Test Facility

Ambient conditions in the laboratory:

Items	Test Item	Required	Test Site
Temperature (°C)	FCC PART 15 E 15.407 Conducted Emission	15 - 35	3
Humidity (%RH)		25 - 75	
Temperature (°C)	FCC PART 15 E 15.407 99% & Minimum Emission Bandwidth	15 - 35	3
Humidity (%RH)		25 - 75	
Temperature (°C)	FCC PART 15 E 15.407 Maximum conducted output power	15 - 35	3
Humidity (%RH)		25 - 75	
Temperature (°C)	FCC PART 15 E 15.407 Maximum power spectral density	15 - 35	3
Humidity (%RH)		25 - 75	
Temperature (°C)	FCC PART 15 E 15.407 Radiated Emission	15 - 35	2
Humidity (%RH)		25 - 75	
Temperature (°C)	FCC PART 15 E 15.407 Band Edge	15 - 35	2
Humidity (%RH)		25 - 75	

Note: Test Site information refers to Laboratory Information.

Laboratory Information

USA	**:**	**FCC Registration Number: TW3024**

The address and introduction of DEKRA Testing and Certification Co., Ltd. laboratories can be founded in our Web site : http://www.dekra.com.tw

If you have any comments, Please don't hesitate to contact us. Our test sites as below:

Test Laboratory	DEKRA Testing and Certification Co., Ltd.
Address	1. No. 75-2, 3rd Lin, WangYe Keng, Yonghxing Tsuen, Qionglin Shiang, Hsinchu County 307, Taiwan, R.O.C. 2. No.372, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu County 31061, Taiwan, R.O.C. 3. No.372-2, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu County 31061, Taiwan, R.O.C.
Phone number	1. +886-3-592-8858 2. +886-3-582-8001 3. +886-3-582-8001
Fax number	1. +886-3-592-8859 2. +886-3-582-8958 3. +886-3-582-8958
E mail address	info.tw@dekra.com
Website	http://www.dekra.com.tw

1.8. List of Test Equipment

Conducted Emission / SR2-H

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
Artificial Mains Network	R&S	ENV4200	848411/010	2019/01/11	2020/01/10
Test Receiver	R&S	ESCS 30	836858/022	2019/03/12	2020/03/11
LISN	R&S	ENV216	100092	2019/07/09	2020/07/08

99% & Minimum Emission Bandwidth / SR10-H

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
Spectrum Analyzer	Keysight	N9030B	MY57140404	2019/06/18	2020/06/17
Spectrum Analyzer	Keysight	N9010B	MY57110159	2019/05/03	2020/05/02
Spectrum Analyzer	Agilent	N9010A	US47140172	2019/06/28	2020/06/27
Signal & Spectrum Analyzer	R&S	FSV40	101049	2019/09/11	2020/09/10

Maximum conducted output power / SR10-H

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
High Speed Peak Power Meter Dual Input	Anritsu	ML2496A	1602004	2018/12/17	2019/12/16
Pulse Power Sensor	Anritsu	MA2411B	1531043	2018/12/17	2019/12/16
Pulse Power Sensor	Anritsu	MA2411B	1531044	2018/12/17	2019/12/16
Power Meter	Keysight	8990B	MY51000248	2019/05/21	2020/05/20
Power Sensor	Keysight	N1923A	MY57240005	2019/05/21	2020/05/20

Maximum power spectral density / SR10-H

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
Spectrum Analyzer	Keysight	N9030B	MY57140404	2019/06/18	2020/06/17
Spectrum Analyzer	Keysight	N9010B	MY57110159	2019/05/03	2020/05/02
Spectrum Analyzer	Agilent	N9010A	US47140172	2019/06/28	2020/06/27
Signal & Spectrum Analyzer	R&S	FSV40	101049	2019/09/11	2020/09/10

Radiated Emission / CB2-H

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
Signal Analyzer	R&S	FSVA40	101455	2019/10/21	2020/10/20
Signal & Spectrum Analyzer	R&S	FSV40	101049	2019/09/11	2020/09/10
Signal Analyzer	R&S	FSV40	101435	2019/07/08	2020/070/7
EXA Signal Analyzer	Keysight	N9010A	MY51440132	2019/03/15	2020/03/14
Bilog Antenna	Teseq	CBL6112D	23191	2019/06/17	2020/06/16
Horn Antenna	Schwarzbeck	BBHA 9120D	639	2019/05/28	2020/05/27
Horn Antenna	Schwarzbeck	BBHA 9120D	01656	2019/10/25	2020/10/24
Horn Antenna	Schwarzbeck	BBHA 9170	202	2019/01/16	2020/01/15
Horn Antenna	Schwarzbeck	BBHA 9170	203	2019/02/20	2020/02/19
Pre-Amplifier	DEKRA	AP-025C	201801236	2019/09/24	2020/09/23
Pre-Amplifier	EMCI	EMC11830I	980366	2018/12/21	2019/12/20
Pre-Amplifier	DEKRA	AP-400C	201801231	2018/12/05	2019/12/04
Band Reject Filter	Micro-Tronics	BRM50716	G089	2019/03/27	2020/03/26
Band Reject Filter	Micro-Tronics	BRM50716	G068	2019/03/27	2020/03/26
Coaxial Cable(16m)	Huber+Suhner	SF104	CB2-H	2019/07/25	2020/07/24
EMI system	DEKRA	Version 1.0	CB2-H	NA	NA

Band Edge / CB2-H

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
Signal Analyzer	R&S	FSVA40	101455	2019/10/21	2020/10/20
Signal & Spectrum Analyzer	R&S	FSV40	101049	2019/09/11	2020/09/10
Signal Analyzer	R&S	FSV40	101435	2019/07/08	2020/070/7
EXA Signal Analyzer	Keysight	N9010A	MY51440132	2019/03/15	2020/03/14
Bilog Antenna	Teseq	CBL6112D	23191	2019/06/17	2020/06/16
Horn Antenna	Schwarzbeck	BBHA 9120D	639	2019/05/28	2020/05/27
Horn Antenna	Schwarzbeck	BBHA 9120D	01656	2019/10/25	2020/10/24
Horn Antenna	Schwarzbeck	BBHA 9170	202	2019/01/16	2020/01/15
Horn Antenna	Schwarzbeck	BBHA 9170	203	2019/02/20	2020/02/19
Pre-Amplifier	DEKRA	AP-025C	201801236	2019/09/24	2020/09/23
Pre-Amplifier	EMCI	EMC11830I	980366	2018/12/21	2019/12/20
Pre-Amplifier	DEKRA	AP-400C	201801231	2018/12/05	2019/12/04
Band Reject Filter	Micro-Tronics	BRM50716	G089	2019/03/27	2020/03/26
Band Reject Filter	Micro-Tronics	BRM50716	G068	2019/03/27	2020/03/26
Coaxial Cable(16m)	Huber+Suhner	SF104	CB2-H	2019/07/25	2020/07/24
EMI system	DEKRA	Version 1.0	CB2-H	NA	NA

Note: All equipment upon which need to calibrated are with calibration period of 1 year.

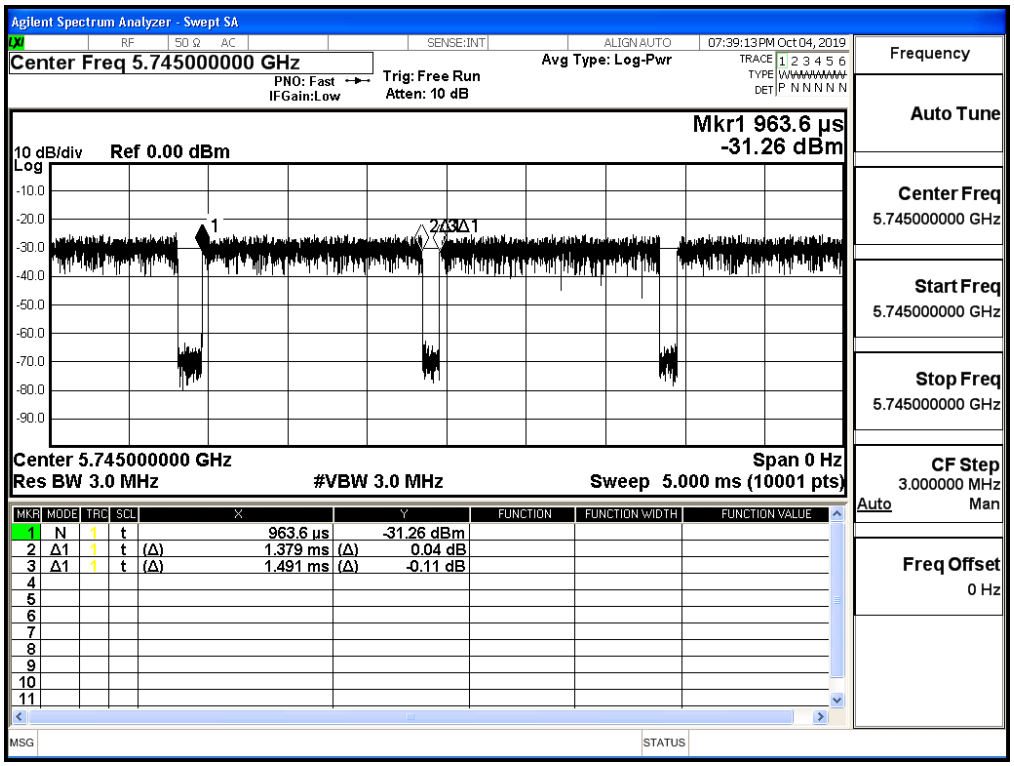
1.9. Duty Cycle

Mode	On Time (ms)	On+Off Time (ms)	Duty Cycle (%)	Duty Factor (dB) linear voltage	Duty Factor (dB) Power	1/T Minimum VBW (kHz)
802.11a	1.379	1.491	92.49%	0.678268	0.34	0.725
802.11n (20MHz)	0.676	0.839	80.56%	1.878090	0.94	1.480
802.11n (40MHz)	0.350	0.488	71.77%	2.880614	1.44	2.858
802.11ac (80MHz)	0.186	0.242	76.96%	2.274198	1.14	5.373

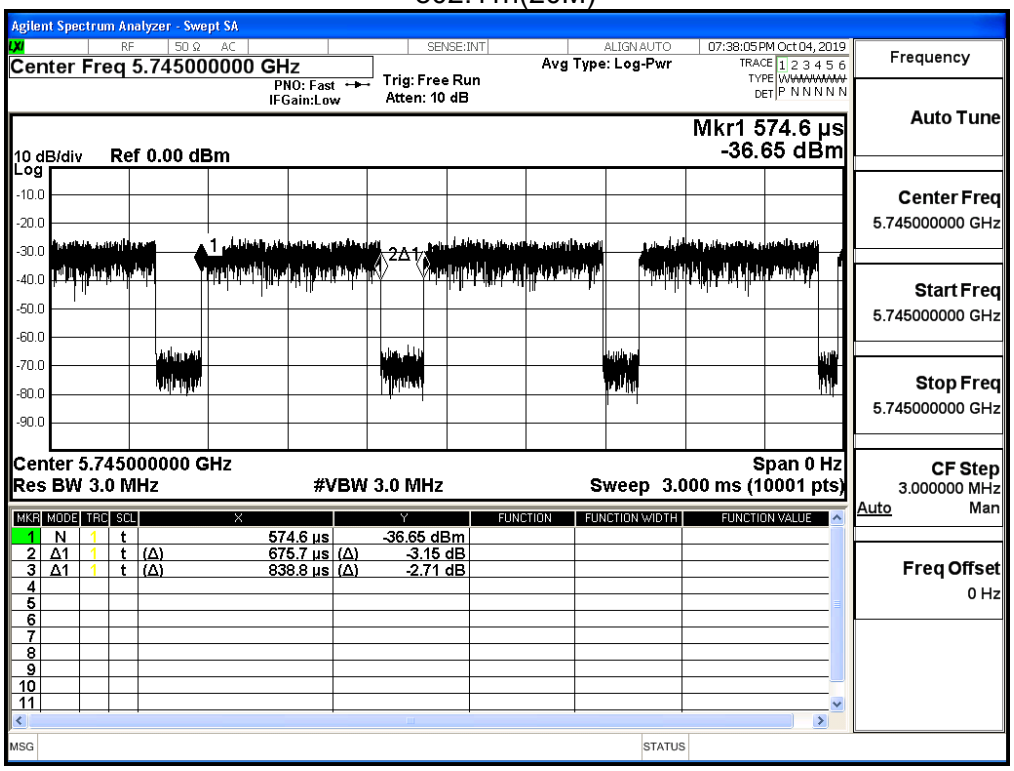
Note:
Offset = 20 log(1/duty cycle)
Accotding to KDB 789033
If power averaging (rms) mode was used in step (iv) above, the correction factor is 10 log (1/x), where x is the duty cycle. For example, if the transmit duty cycle was 50%, then 3 dB must be added to the measured emission levels.

If linear voltage averaging mode was used in step (iv) above, the correction factor is 20 log (1/x), where x is the duty cycle. For example, if the transmit duty cycle was 50%, then 6 dB must be added to the measured emission levels.

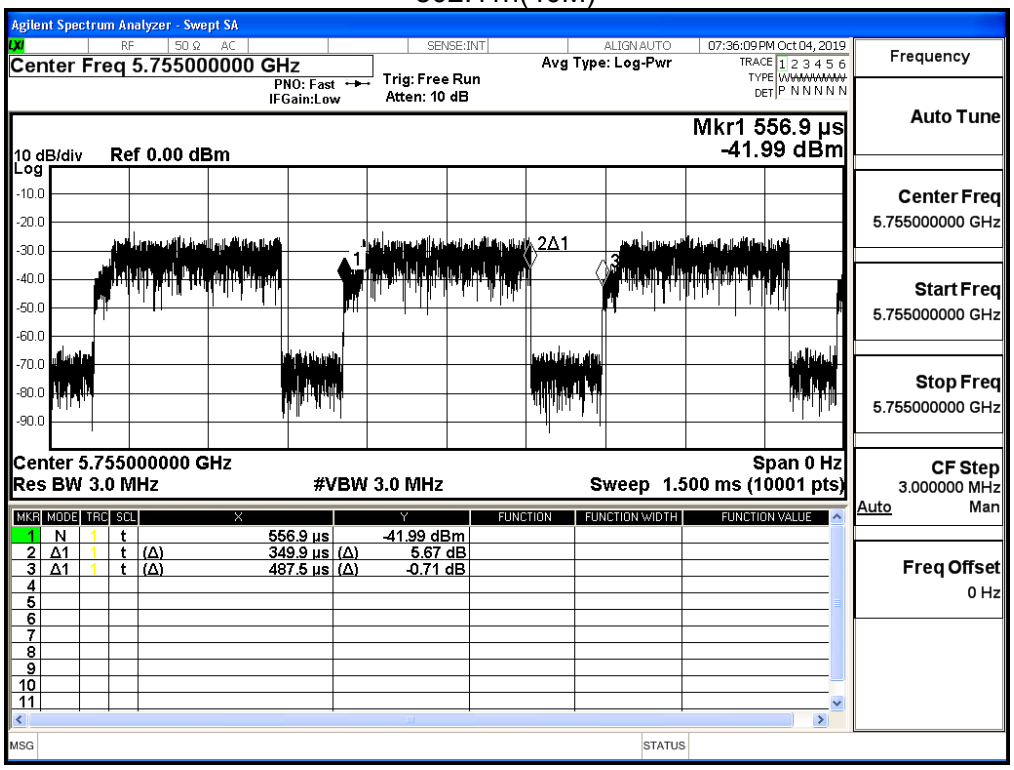
802.11a



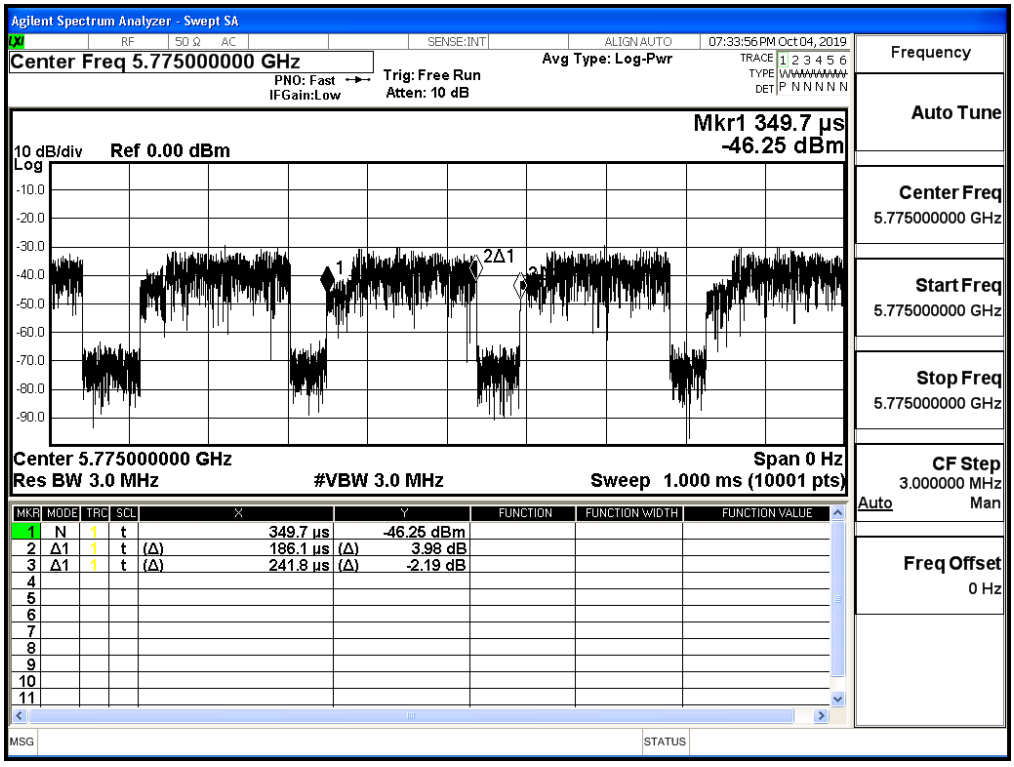
802.11n(20M)



802.11n(40M)



802.11ac(80M)



1.10. Uncertainty

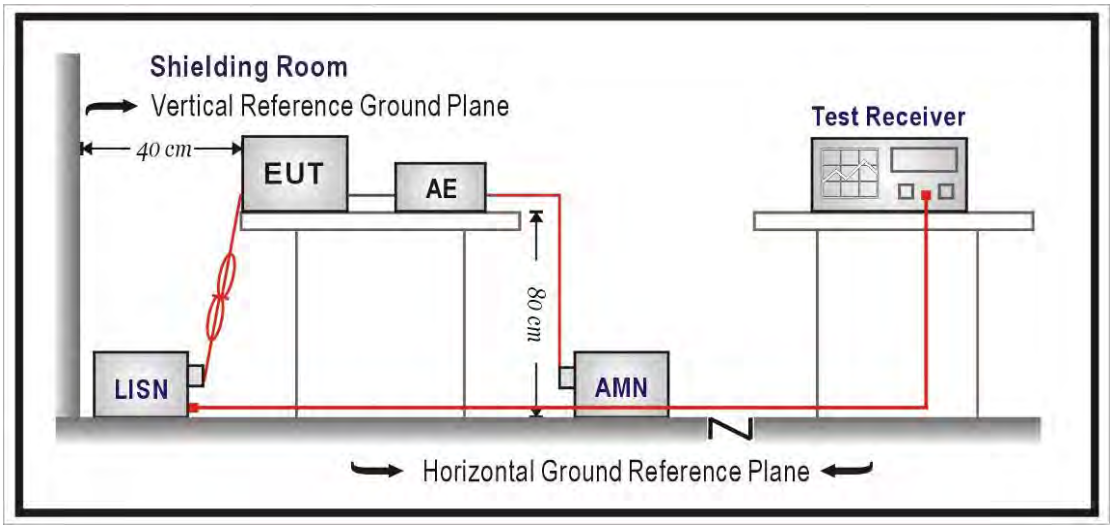
Test item	Uncertainty
Conducted Emission	± 2.1 dB
99% & Minimum Emission Bandwidth	± 637Hz
Maximum conducted output power	± 1.16dB
Maximum power spectral density	± 2.11dB
Radiated Emission	± 3.40 dB below 1GHz ± 3.46 dB above 1GHz
Band Edge	± 3.40 dB below 1GHz ± 3.46 dB above 1GHz

2. Aetenna Requirements

According to FCC 47CFR 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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

3. Conducted Emission

3.1. Test Setup



3.2. Limits

FCC Part 15 Subpart C Paragraph 15.207 Limits (dBuV)		
Frequency MHz	QP	AV
0.15 - 0.50	66 - 56	56 - 46
0.50 - 5.0	56	46
5.0 - 30	60	50

Remark: In the above table, the tighter limit applies at the band edges.

3.3. Test Procedure

The EUT was setup according to ANSI C63.10: 2013. The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 80 cm from any other grounded conducting surface. The EUT and simulators are connected to the main power through a line impedance stabilization network (LISN). The LISN provides a 50 ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN. (Please refer to the block diagram of the test setup and photographs.)

Each current-carrying conductor of the EUT power cord, except the ground (safety) conductor, was individually connected through a LISN to the input power source.

The excess length of the power cord between the EUT and the LISN receptacle were folded back and forth at the center of the lead to form a bundle not exceeding 40 cm in length.

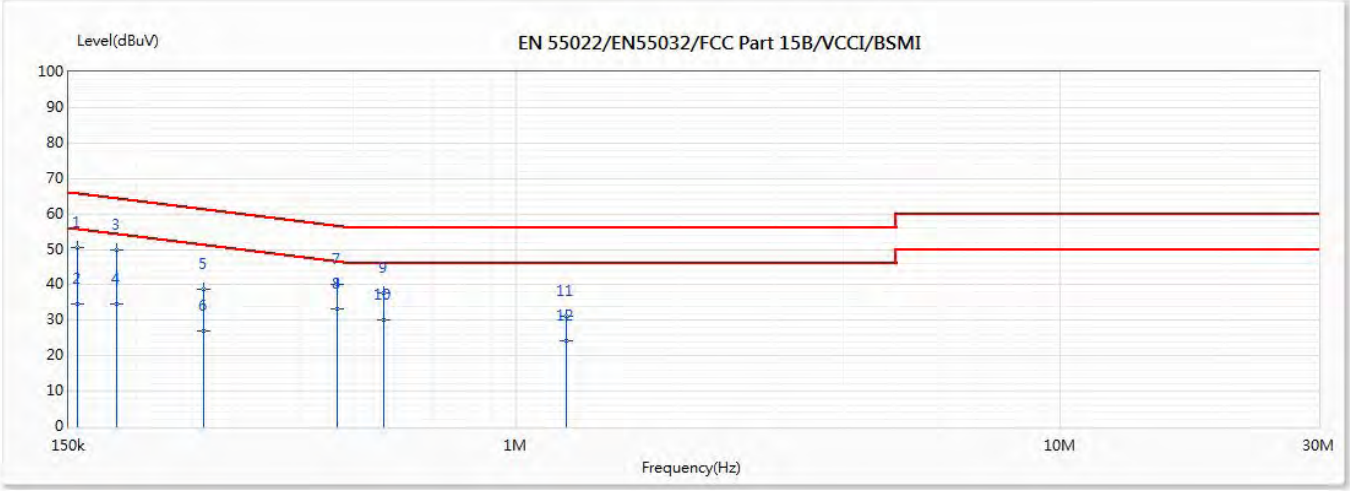
Conducted emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9 kHz.

3.4. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.407: 2018

3.5. Test Result

Site :	SR2-H	Engineer :	Scott
Model No :	USB-AC56	Test Date :	2019/10/30
Test Voltage :	DC 5V (Power by PC)	Phase :	L1
Test Mode :	Mode 1: Transmit (Dipole Antenna)		
Note :			
Environmental Condition:	Temperature ( ) : 24.5 ; Relative Humidity (%RH) : 58.1		

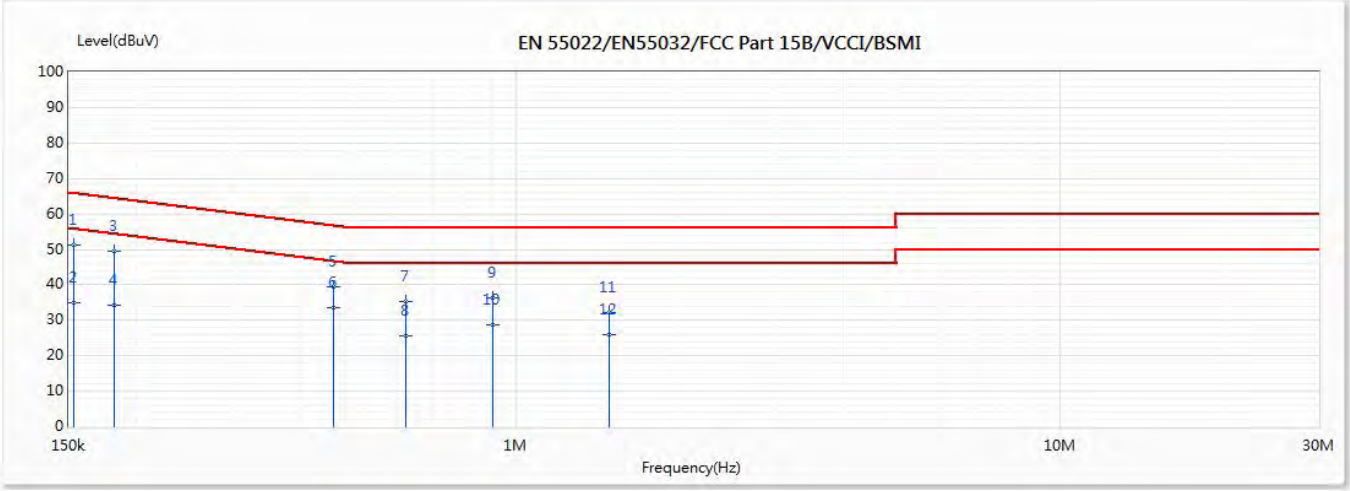


No	Frequency (MHz)	Emission Level (dBuV)	Limit (dBuV)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	0.156	50.57	65.84	-15.27	40.91	9.66	QP
2	0.156	34.51	55.84	-21.33	24.85	9.66	AV
3	0.184	49.86	65.04	-15.18	40.20	9.67	QP
4	0.184	34.55	55.04	-20.48	24.89	9.67	AV
5	0.266	38.76	62.70	-23.94	29.07	9.68	QP
6	0.266	26.97	52.70	-25.73	17.29	9.68	AV
7	0.468	40.06	56.91	-16.84	30.34	9.72	QP
*8	0.468	33.26	46.91	-13.65	23.53	9.72	AV
9	0.57	37.56	56.00	-18.44	27.82	9.75	QP
10	0.57	30.09	46.00	-15.91	20.34	9.75	AV
11	1.234	31.05	56.00	-24.95	21.23	9.82	QP
12	1.234	24.25	46.00	-21.75	14.42	9.82	AV

Note:

1. All Reading Levels is Quasi-Peak and average value.
2. " * ", means this data is the worst emission level.
3. Emission Level = Reading Level + Correct Factor.

Site :	SR2-H	Engineer :	Scott
Model No :	USB-AC56	Test Date :	2019/10/30
Test Voltage :	DC 5V (Power by PC)	Phase :	L2
Test Mode :	Mode 1: Transmit (Dipole Antenna)		
Note :			
Environmental Condition:	Temperature ( ) : 24.5 ; Relative Humidity (%RH) : 58.1		

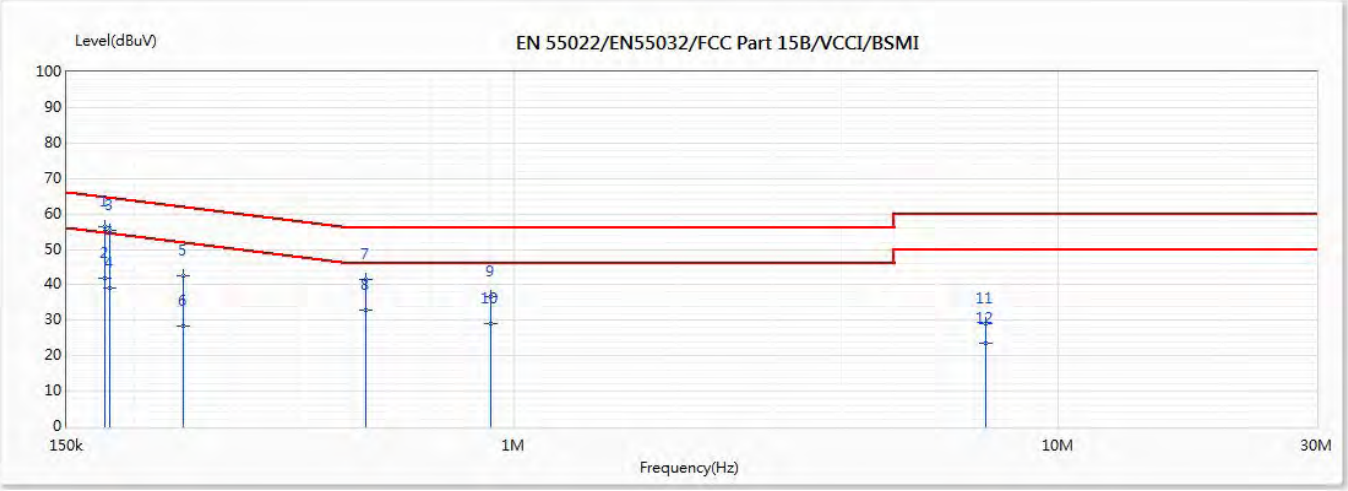


No	Frequency (MHz)	Emission Level (dBuV)	Limit (dBuV)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	0.153	51.09	65.90	-14.82	41.41	9.68	QP
2	0.153	34.91	55.90	-20.99	25.23	9.68	AV
3	0.182	49.51	65.09	-15.58	39.83	9.68	QP
4	0.182	34.14	55.09	-20.94	24.46	9.68	AV
5	0.46	39.36	57.14	-17.79	29.62	9.73	QP
*6	0.46	33.49	47.14	-13.65	23.76	9.73	AV
7	0.626	35.35	56.00	-20.65	25.58	9.76	QP
8	0.626	25.72	46.00	-20.28	15.96	9.76	AV
9	0.904	36.33	56.00	-19.67	26.53	9.81	QP
10	0.904	28.88	46.00	-17.12	19.08	9.81	AV
11	1.48	32.15	56.00	-23.85	22.31	9.83	QP
12	1.48	26.07	46.00	-19.93	16.23	9.83	AV

Note:

1. All Reading Levels is Quasi-Peak and average value.
2. " * ", means this data is the worst emission level.
3. Emission Level = Reading Level + Correct Factor.

Site :	SR2-H	Engineer :	Scott
Model No :	USB-AC56	Test Date :	2019/10/30
Test Voltage :	DC 5V (Power by PC)	Phase :	L1
Test Mode :	Mode 2: Transmit (PIFA Antenna)		
Note :			
Environmental Condition:	Temperature ( ) : 24.5 ; Relative Humidity (%RH) : 58.1		

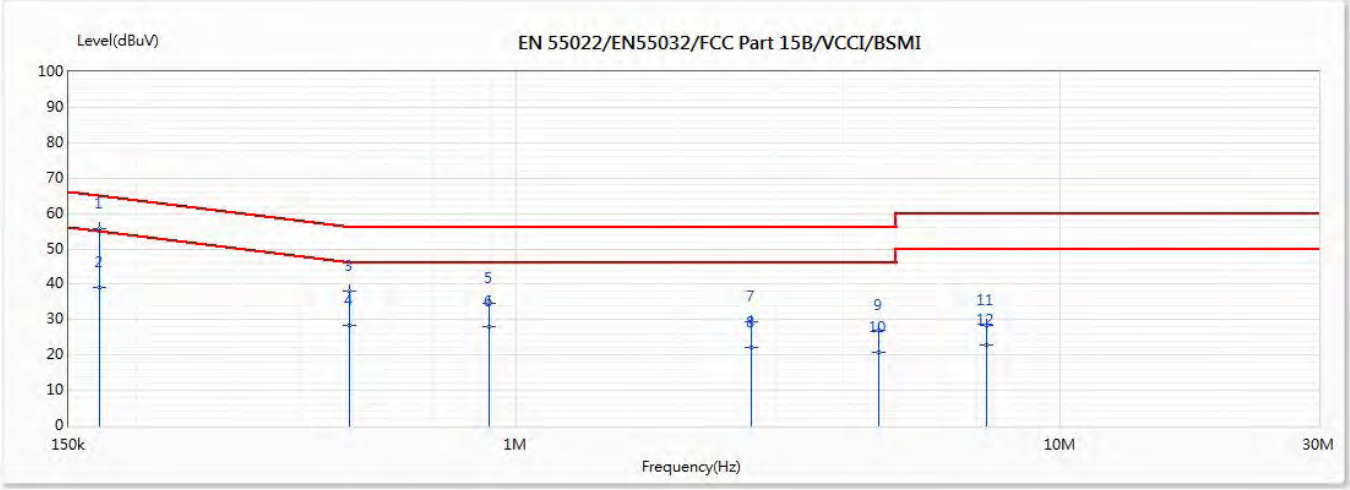


No	Frequency (MHz)	Emission Level (dBuV)	Limit (dBuV)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
*1	0.176	56.49	65.25	-8.77	46.82	9.67	QP
2	0.176	41.88	55.25	-13.37	32.22	9.67	AV
3	0.18	55.27	65.15	-9.88	45.61	9.67	QP
4	0.18	39.04	55.15	-16.11	29.37	9.67	AV
5	0.246	42.44	63.26	-20.82	32.76	9.68	QP
6	0.246	28.48	53.26	-24.78	18.80	9.68	AV
7	0.532	41.53	56.00	-14.47	31.80	9.73	QP
8	0.532	33.03	46.00	-12.97	23.30	9.73	AV
9	0.904	36.85	56.00	-19.15	27.04	9.81	QP
10	0.904	29.17	46.00	-16.83	19.37	9.81	AV
11	7.394	29.04	60.00	-30.96	19.03	10.00	QP
12	7.394	23.43	50.00	-26.57	13.43	10.00	AV

Note:

1. All Reading Levels is Quasi-Peak and average value.
2. " * ", means this data is the worst emission level.
3. Emission Level = Reading Level + Correct Factor.

Site :	SR2-H	Engineer :	Scott
Model No :	USB-AC56	Test Date :	2019/10/30
Test Voltage :	DC 5V (Power by PC)	Phase :	L2
Test Mode :	Mode 2: Transmit (PIFA Antenna)		
Note :			
Environmental Condition:	Temperature ( ) : 24.5 ; Relative Humidity (%RH) : 58.1		



No	Frequency (MHz)	Emission Level (dBuV)	Limit (dBuV)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
*1	0.171	55.60	65.41	-9.81	45.92	9.68	QP
2	0.171	39.14	55.41	-16.27	29.46	9.68	AV
3	0.494	38.17	56.18	-18.01	28.43	9.74	QP
4	0.494	28.27	46.18	-17.91	18.53	9.74	AV
5	0.889	34.52	56.00	-21.48	24.72	9.80	QP
6	0.889	28.14	46.00	-17.86	18.34	9.80	AV
7	2.708	29.50	56.00	-26.50	19.63	9.87	QP
8	2.708	22.23	46.00	-23.77	12.37	9.87	AV
9	4.636	26.92	56.00	-29.08	17.00	9.92	QP
10	4.636	20.76	46.00	-25.24	10.83	9.92	AV
11	7.336	28.43	60.00	-31.57	18.39	10.04	QP
12	7.336	22.94	50.00	-27.06	12.91	10.04	AV

Note:

1. All Reading Levels is Quasi-Peak and average value.
2. " * ", means this data is the worst emission level.
3. Emission Level = Reading Level + Correct Factor.

4. 99% & Minimum Emission Bandwidth

4.1. Test Setup

4.2. Limits

99% Bandwidth : No Required
Minimum Emission Bandwidth ≧ 500KHz

4.3. Test Procedure

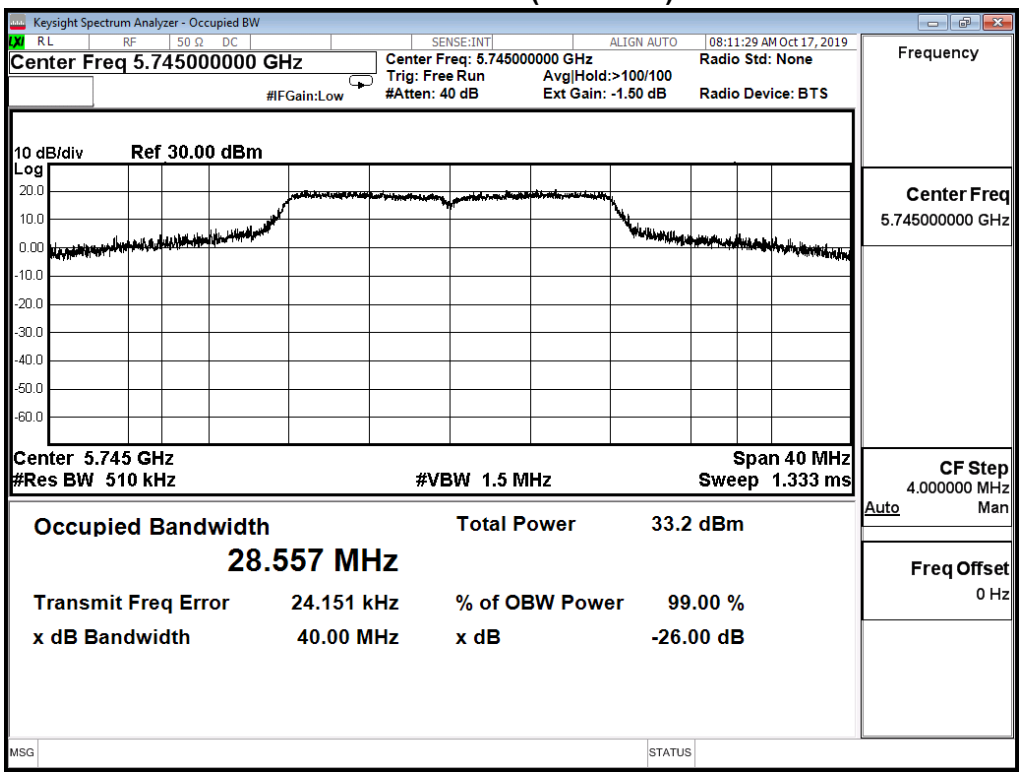
99% Bandwidth :
The EUT was tested according to U-NII test procedure of KDB 789033.D02 v02
Set RBW 1% of the emission bandwidth, VBW equal to 3 times the RBW.
Minimum Emission Bandwidth :
Set RBW = 100KHz, VBWÛ3xRBW, Sweep time=Auto, Set Peak detector.

4.4. Test Result

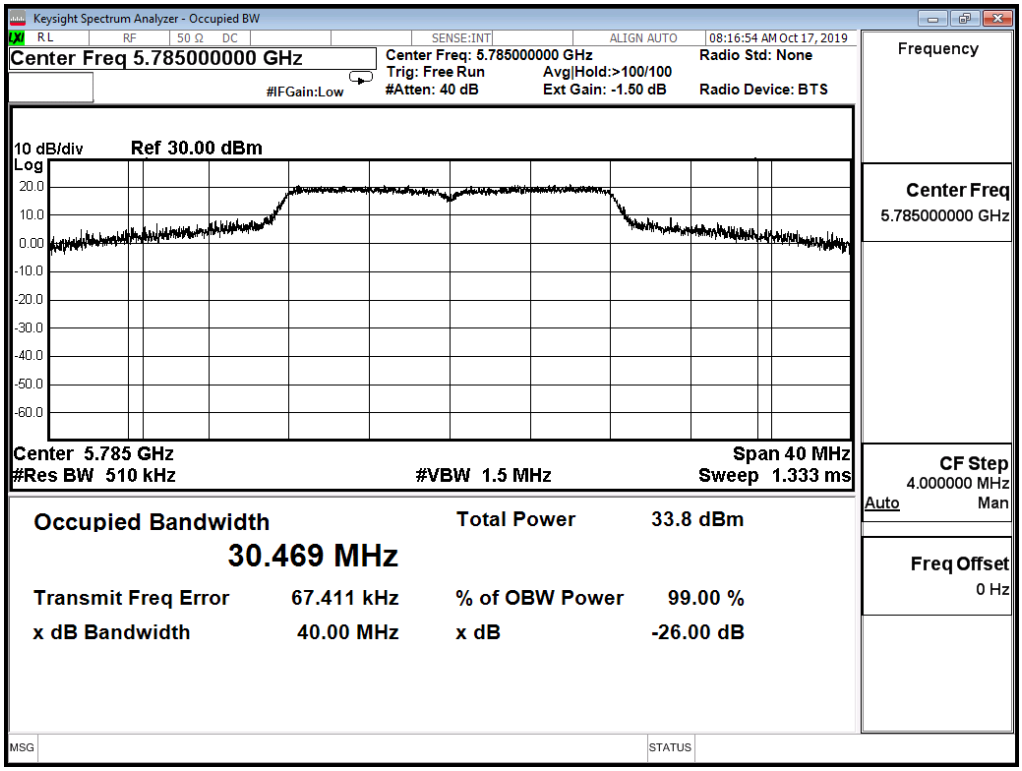
Product	Dual-Band Wireless USB adapter		
Test Item	99% Occupied Bandwidth		
Test Mode	Mode 1: Transmit (Dipole Antenna)		
Date of Test	2019/10/17	Test Site	SR10-H
Temperature(°C)	24.6	Humidity (%RH)	62

IEEE 802.11a (ANT 0)			
Channel No.	Frequency (MHz)	99% Bandwidth (MHz)	Limit (MHz)
149	5745	28.557	--
157	5785	30.469	--
165	5825	27.463	--

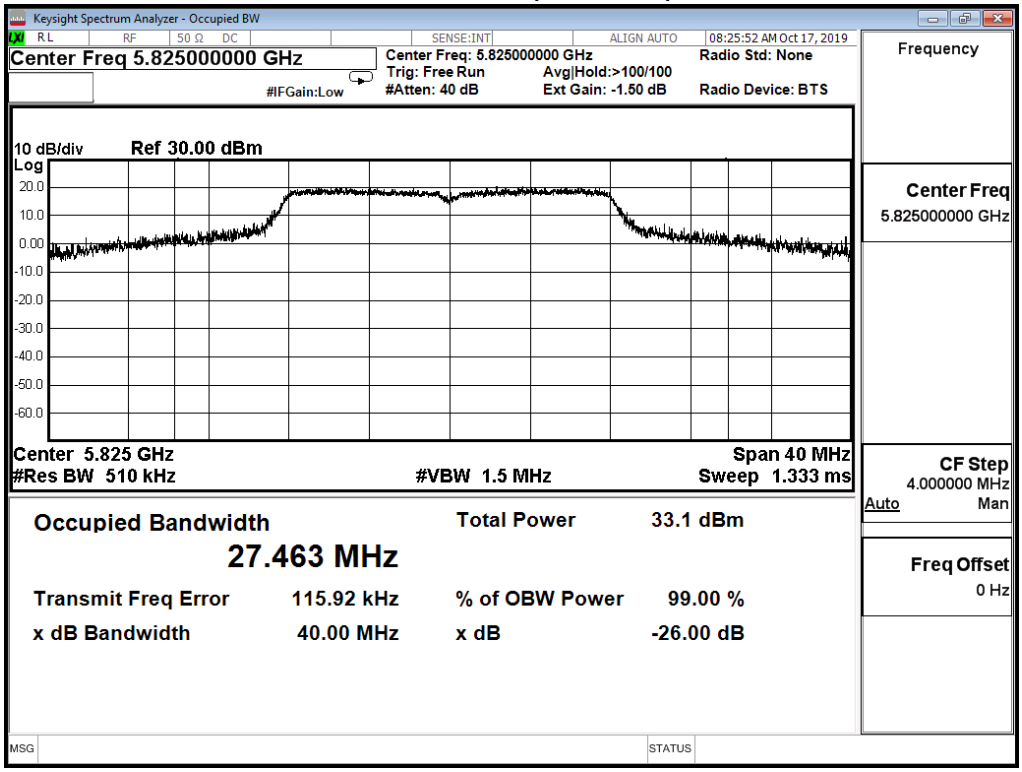
Channel 146 (5745MHz)



Channel 157 (5785MHz)



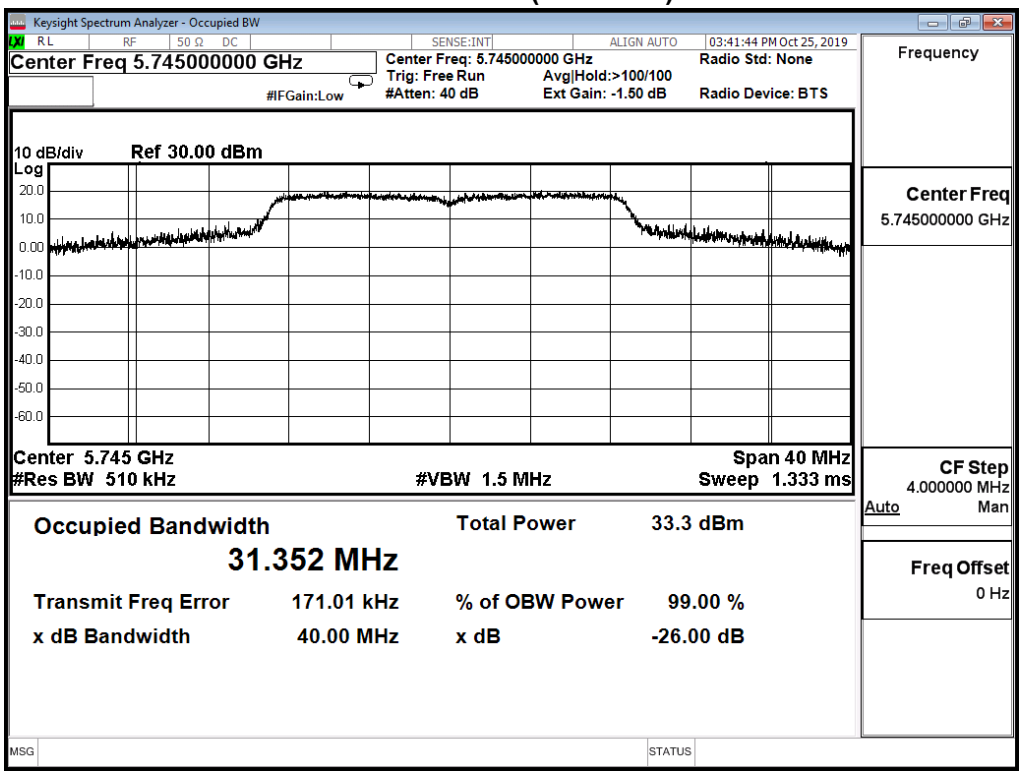
Channel 165 (5825MHz)



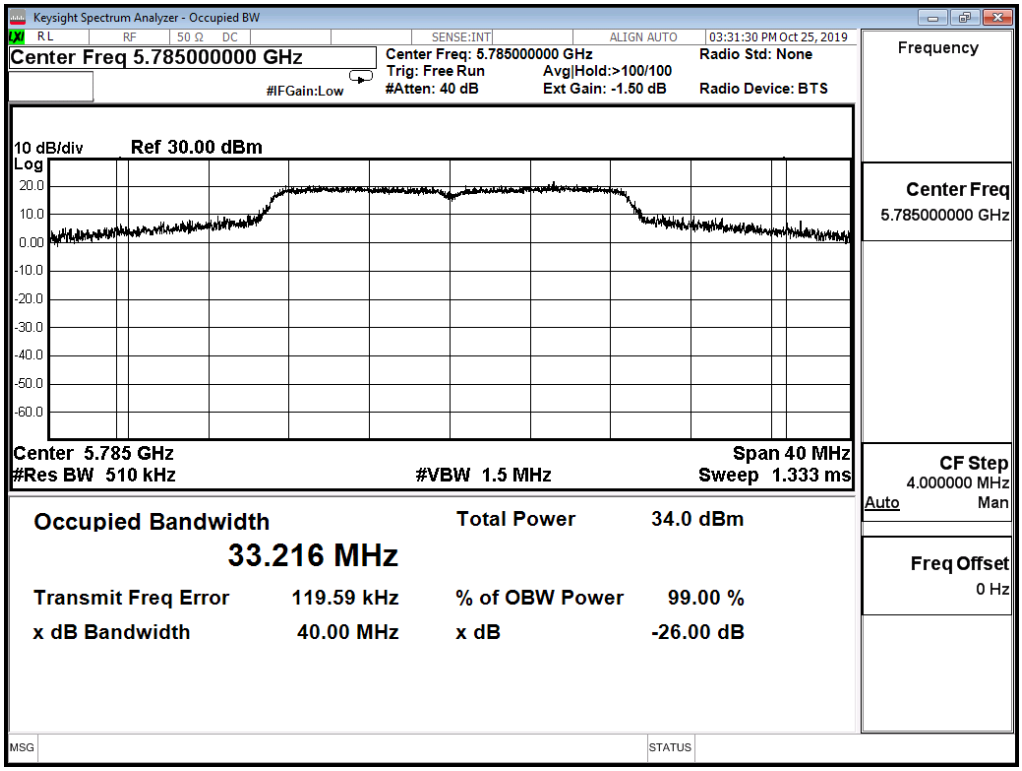
Product	Dual-Band Wireless USB adapter		
Test Item	99% Occupied Bandwidth		
Test Mode	Mode 1: Transmit (Dipole Antenna)		
Date of Test	2019/10/25	Test Site	SR10-H
Temperature(°C)	24.6	Humidity (%RH)	62

IEEE 802.11n_20M(ANT 0)			
Channel No.	Frequency (MHz)	99% Bandwidth (MHz)	Limit (MHz)
149	5745	31.352	--
157	5785	33.216	--
165	5825	31.885	--

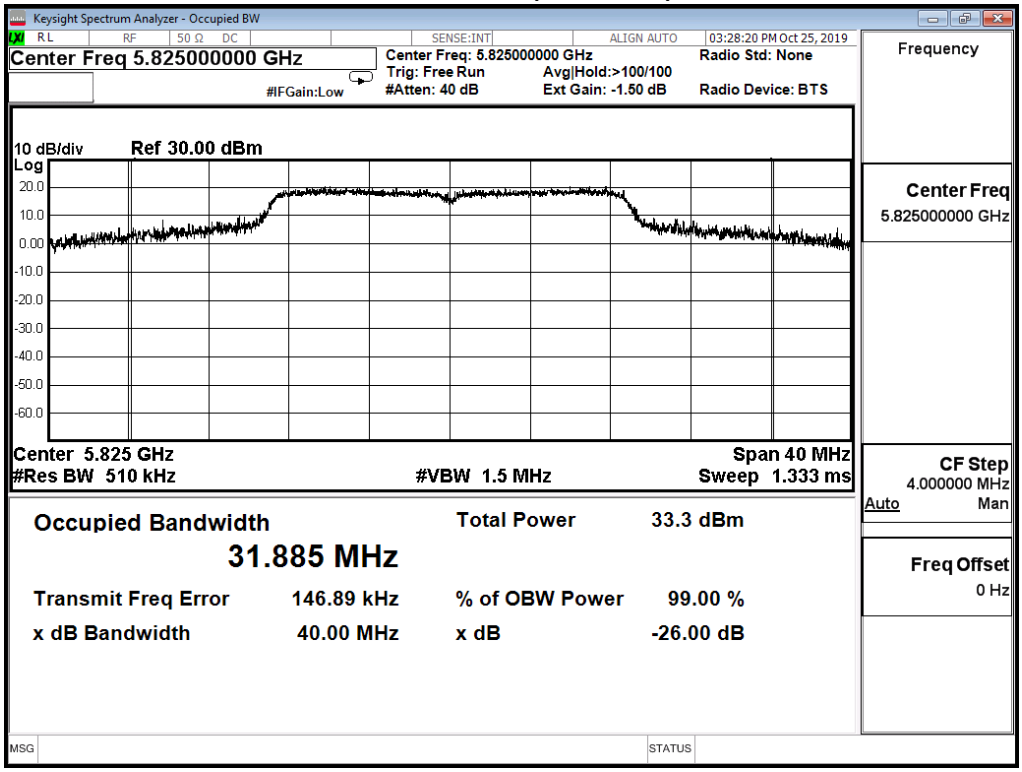
Channel 146 (5745MHz)



Channel 157 (5785MHz)



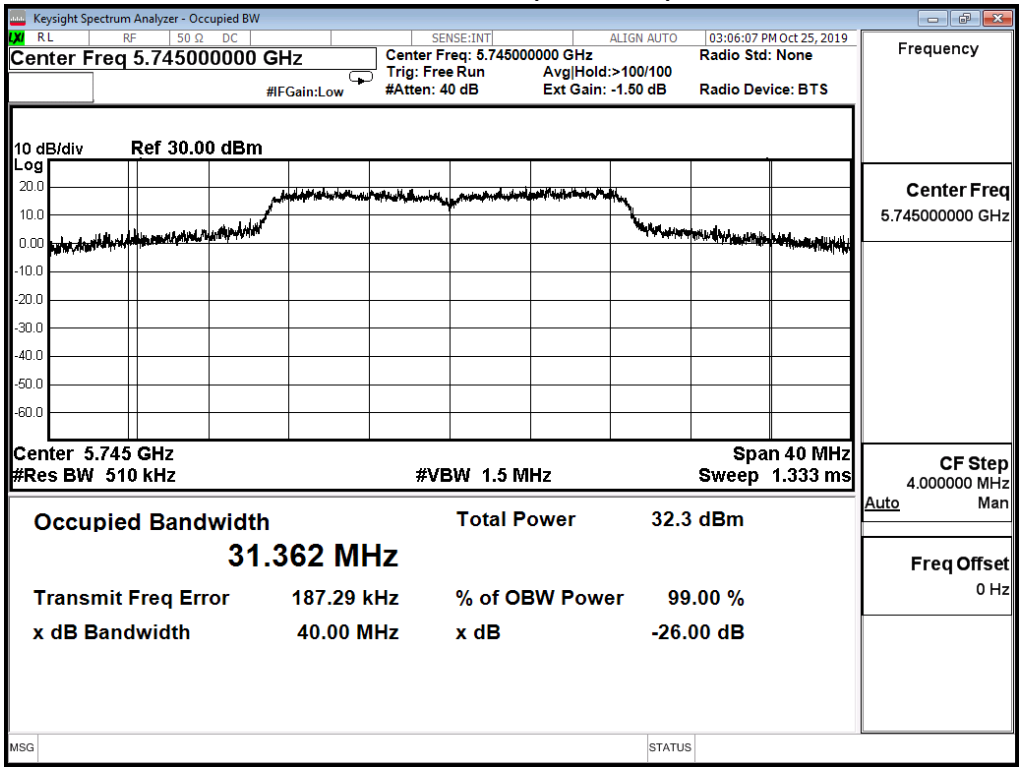
Channel 165 (5825MHz)



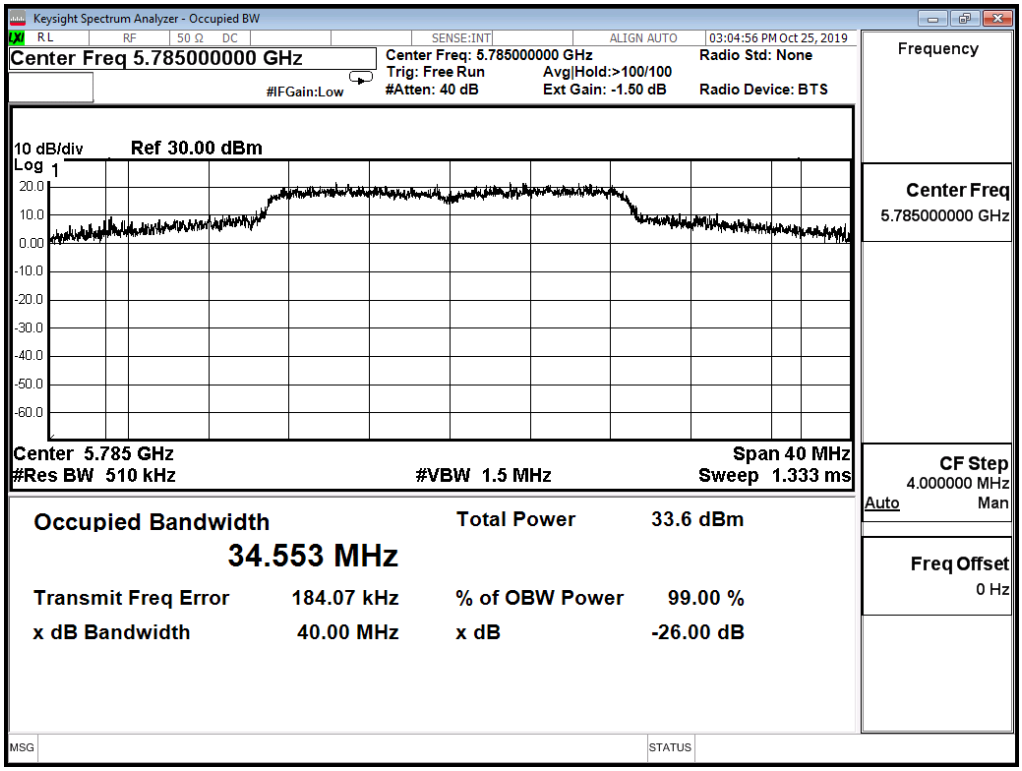
Product	Dual-Band Wireless USB adapter		
Test Item	99% Occupied Bandwidth		
Test Mode	Mode 1: Transmit (Dipole Antenna)		
Date of Test	2019/10/25	Test Site	SR10-H
Temperature(°C)	24.6	Humidity (%RH)	62

IEEE 802.11n_20M(ANT 1)			
Channel No.	Frequency (MHz)	99% Bandwidth (MHz)	Limit (MHz)
149	5745	31.362	--
157	5785	34.553	--
165	5825	32.119	--

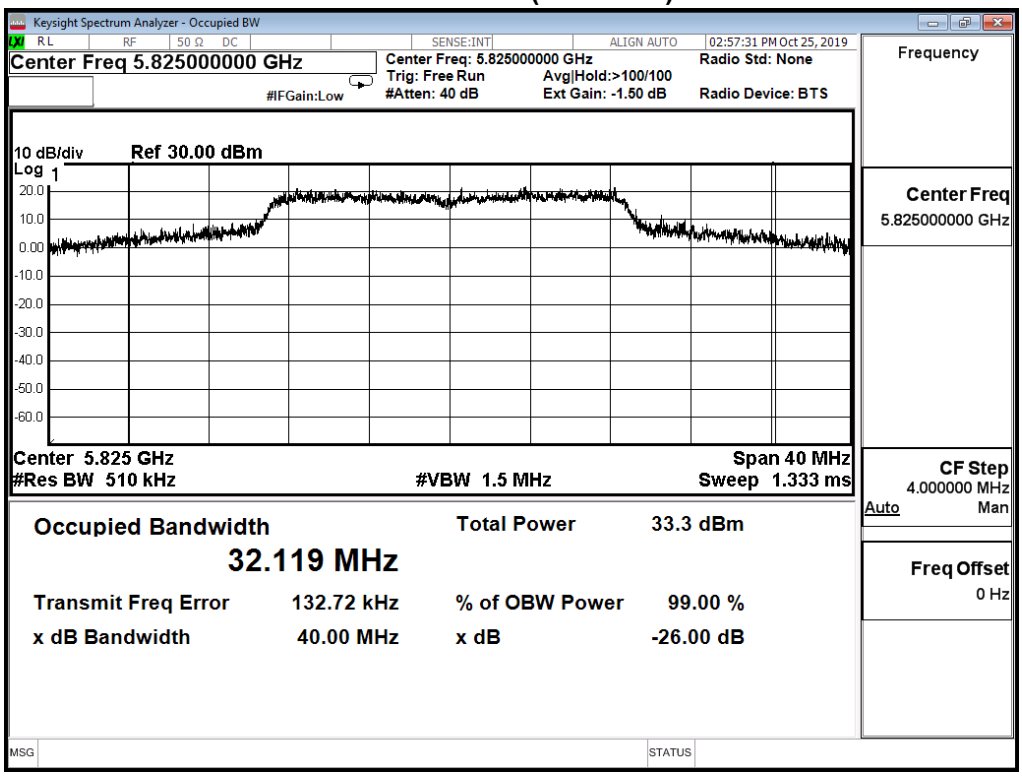
Channel 149 (5745MHz)



Channel 157 (5785MHz)



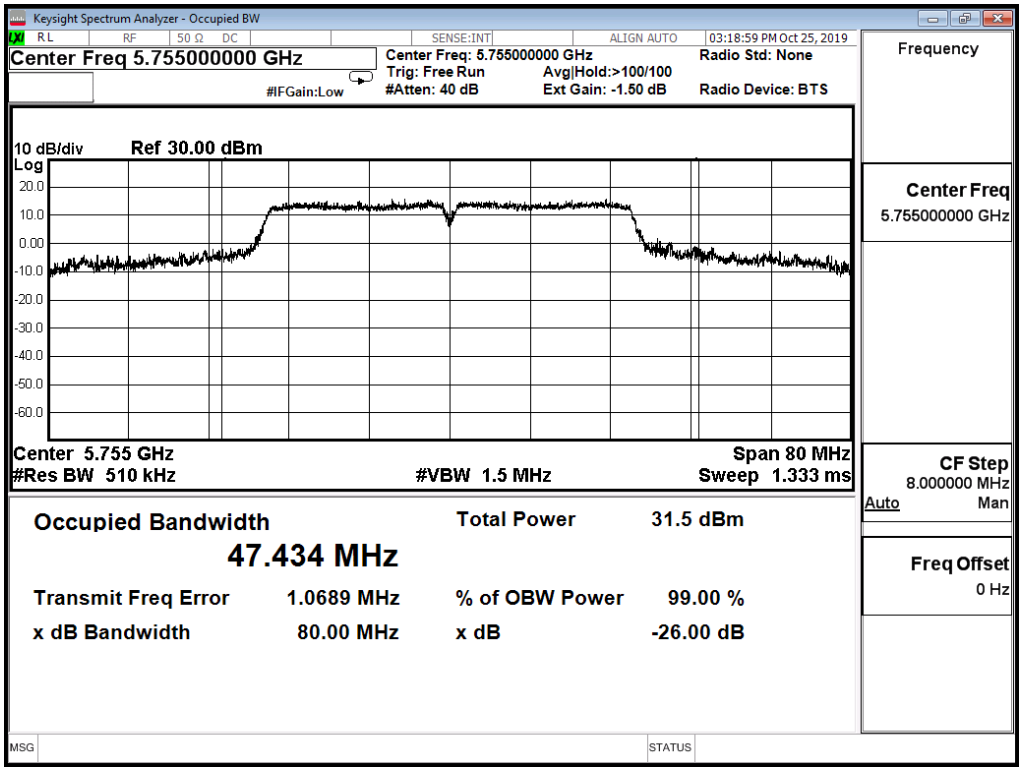
Channel 165 (5825MHz)



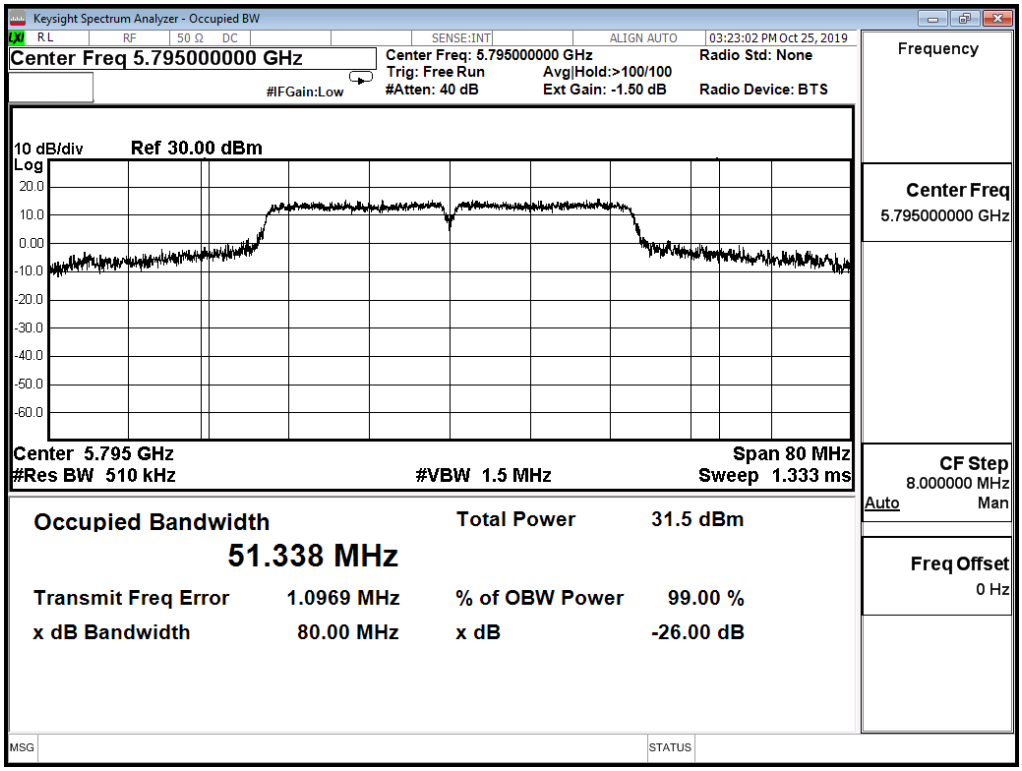
Product	Dual-Band Wireless USB adapter		
Test Item	99% Occupied Bandwidth		
Test Mode	Mode 1: Transmit (Dipole Antenna)		
Date of Test	2019/10/25	Test Site	SR10-H
Temperature(°C)	24.6	Humidity (%RH)	62

IEEE 802.11n_40M(ANT 0)			
Channel No.	Frequency (MHz)	99% Bandwidth (MHz)	Limit (MHz)
151	5755	47.434	--
159	5795	51.338	--

Channel 151 (5755MHz)



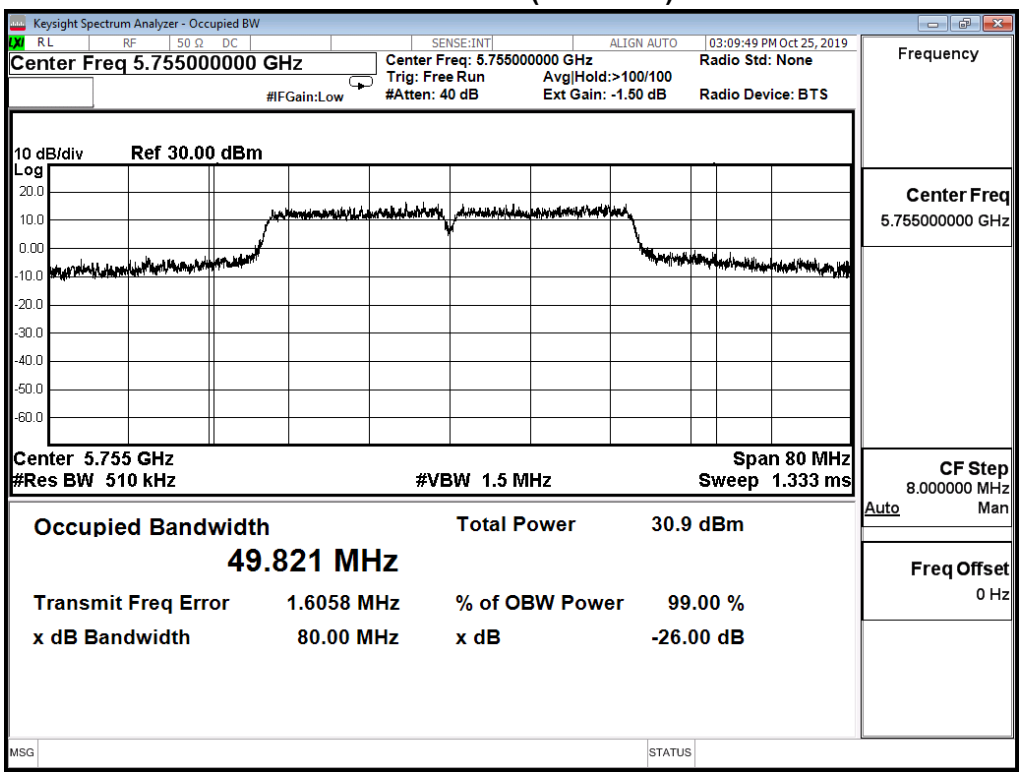
Channel 159 (5795MHz)



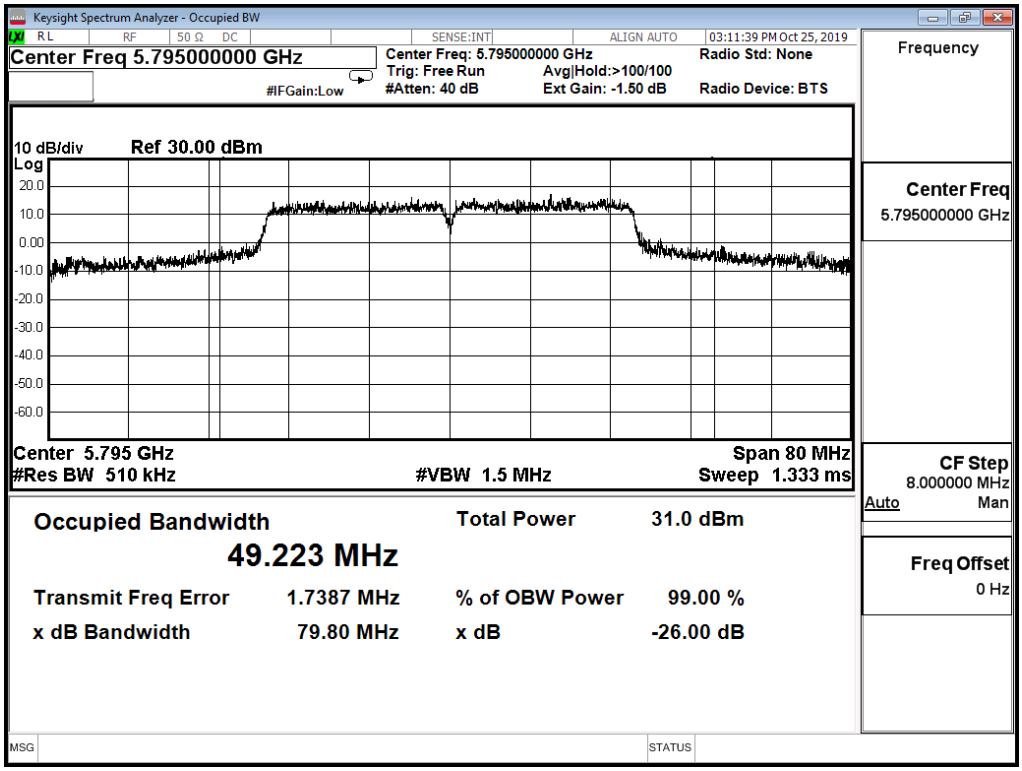
Product	Dual-Band Wireless USB adapter		
Test Item	99% Occupied Bandwidth		
Test Mode	Mode 1: Transmit (Dipole Antenna)		
Date of Test	2019/10/25	Test Site	SR10-H
Temperature(°C)	24.6	Humidity (%RH)	62

IEEE 802.11n_40M(ANT 1)			
Channel No.	Frequency (MHz)	99% Bandwidth (MHz)	Limit (MHz)
151	5755	49.821	--
159	5795	49.223	--

Channel 151 (5755MHz)



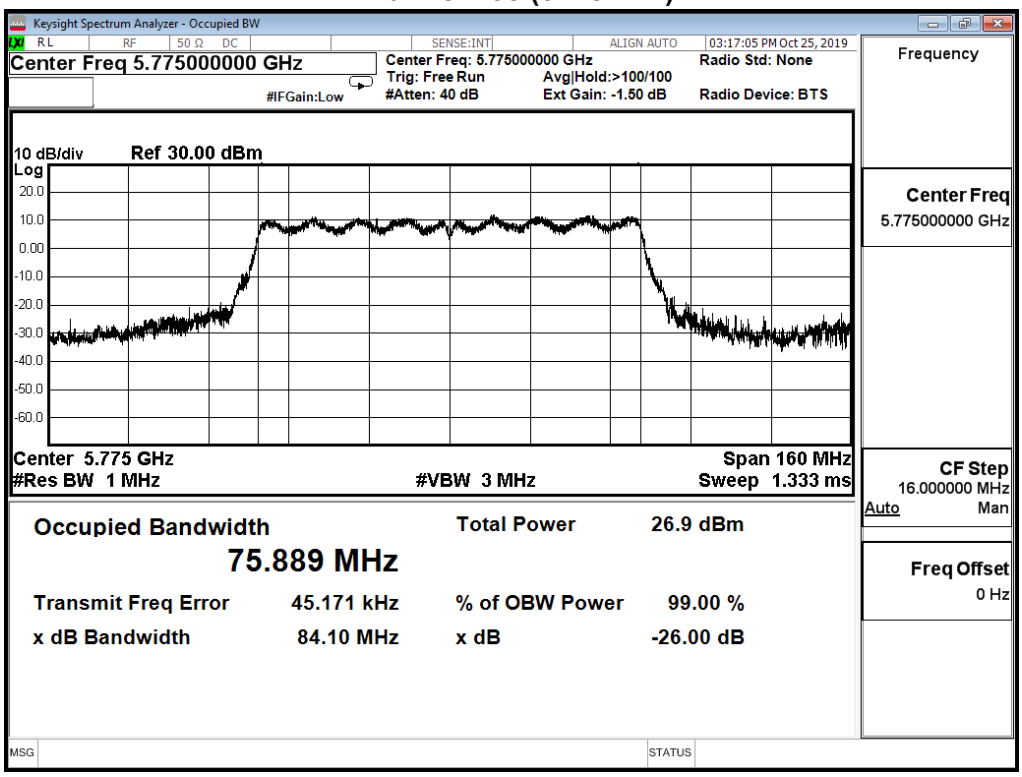
Channel 159 (5795MHz)



Product	Dual-Band Wireless USB adapter		
Test Item	99% Occupied Bandwidth		
Test Mode	Mode 1: Transmit (Dipole Antenna)		
Date of Test	2019/10/25	Test Site	SR10-H
Temperature(°C)	24.6	Humidity (%RH)	62

IEEE 802.11ac_80M(ANT 0)			
Channel No.	Frequency (MHz)	99% Bandwidth (MHz)	Limit (MHz)
155	5775	75.889	--

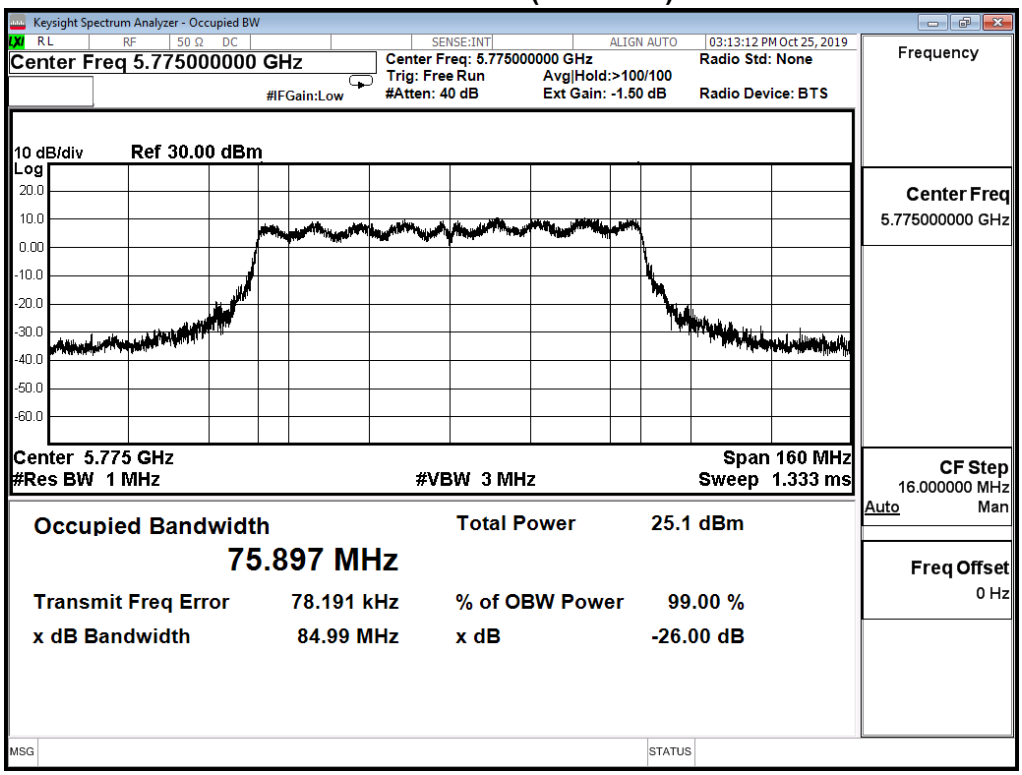
Channel 155 (5775MHz)



Product	Dual-Band Wireless USB adapter		
Test Item	99% Occupied Bandwidth		
Test Mode	Mode 1: Transmit (Dipole Antenna)		
Date of Test	2019/10/25	Test Site	SR10-H
Temperature(°C)	24.6	Humidity (%RH)	62

IEEE 802.11ac_80M(ANT 1)			
Channel No.	Frequency (MHz)	99% Bandwidth (MHz)	Limit (MHz)
155	5775	75.897	--

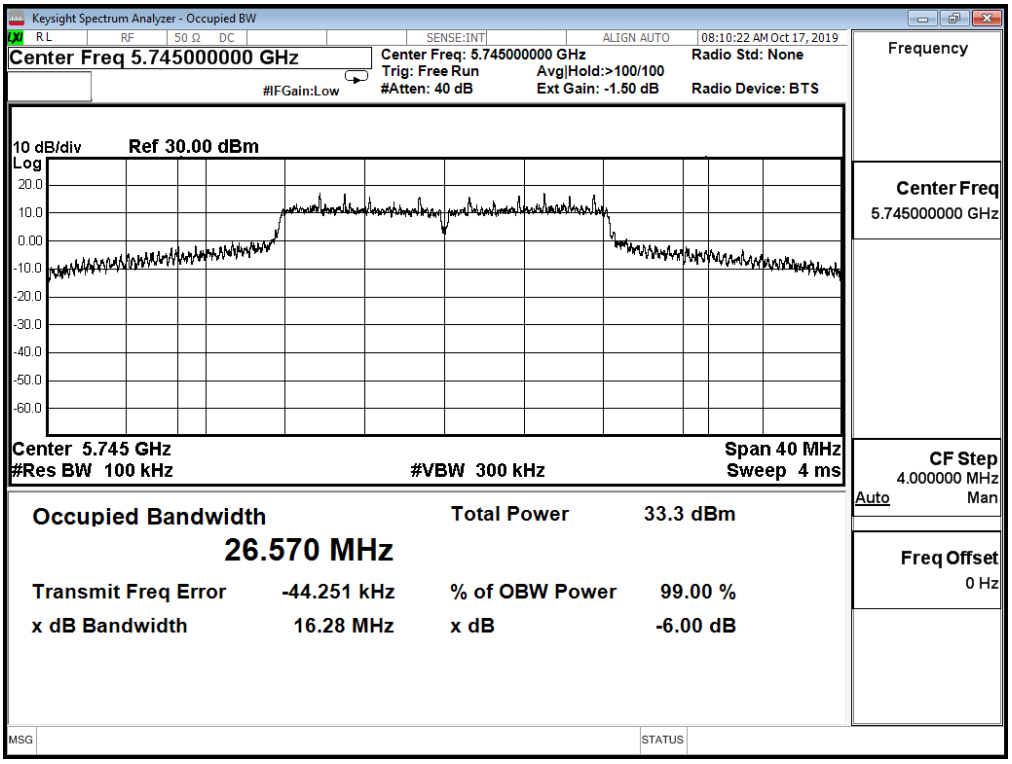
Channel 155 (5775MHz)



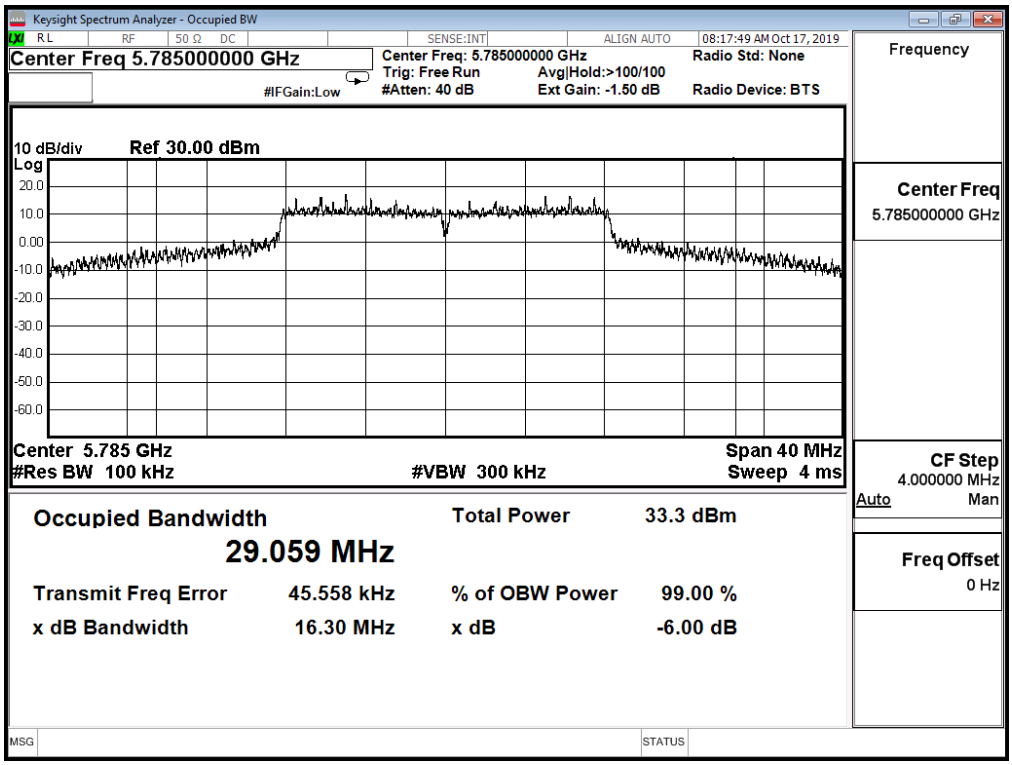
Product	Dual-Band Wireless USB adapter		
Test Item	Minimum Emission Bandwidth		
Test Mode	Mode 1: Transmit (Dipole Antenna)		
Date of Test	2019/10/17	Test Site	SR10-H
Temperature(°C)	24.6	Humidity (%RH)	62

IEEE 802.11a (ANT0)				
Channel No.	Frequency (MHz)	Measure Value (MHz)	Limit (MHz)	Result
149	5745	16.280	Û0.5	Pass
157	5785	16.300	Û0.5	Pass
165	5825	16.280	Û0.5	Pass

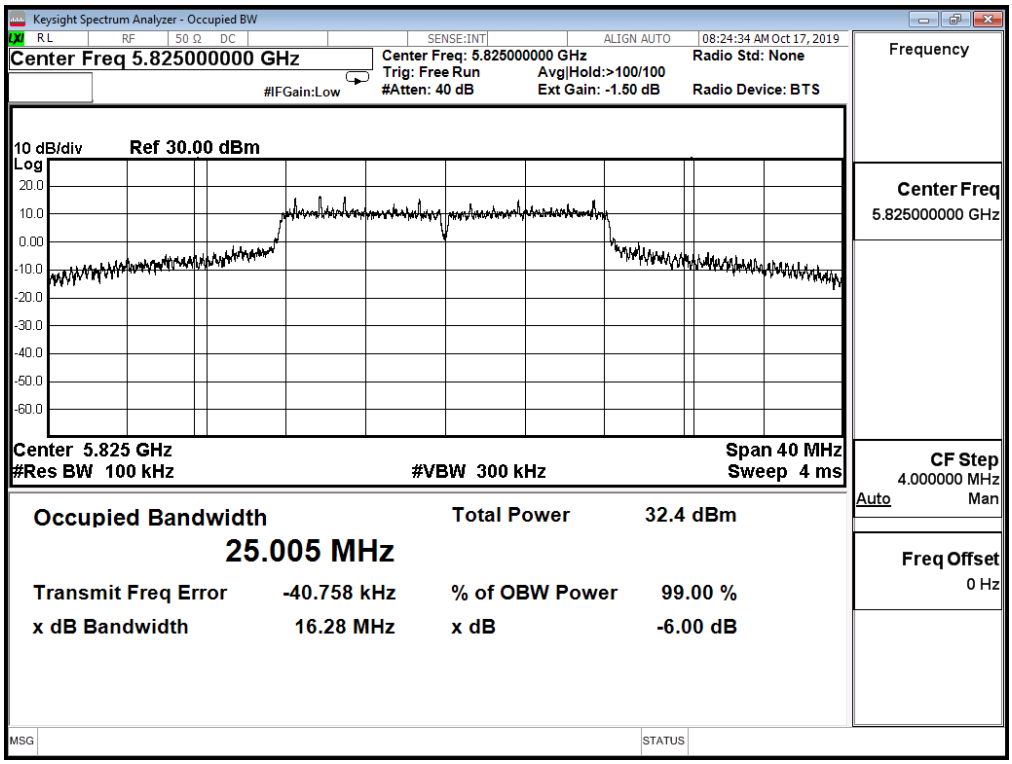
Channel 149 (5745MHz)



Channel 157 (5785MHz)



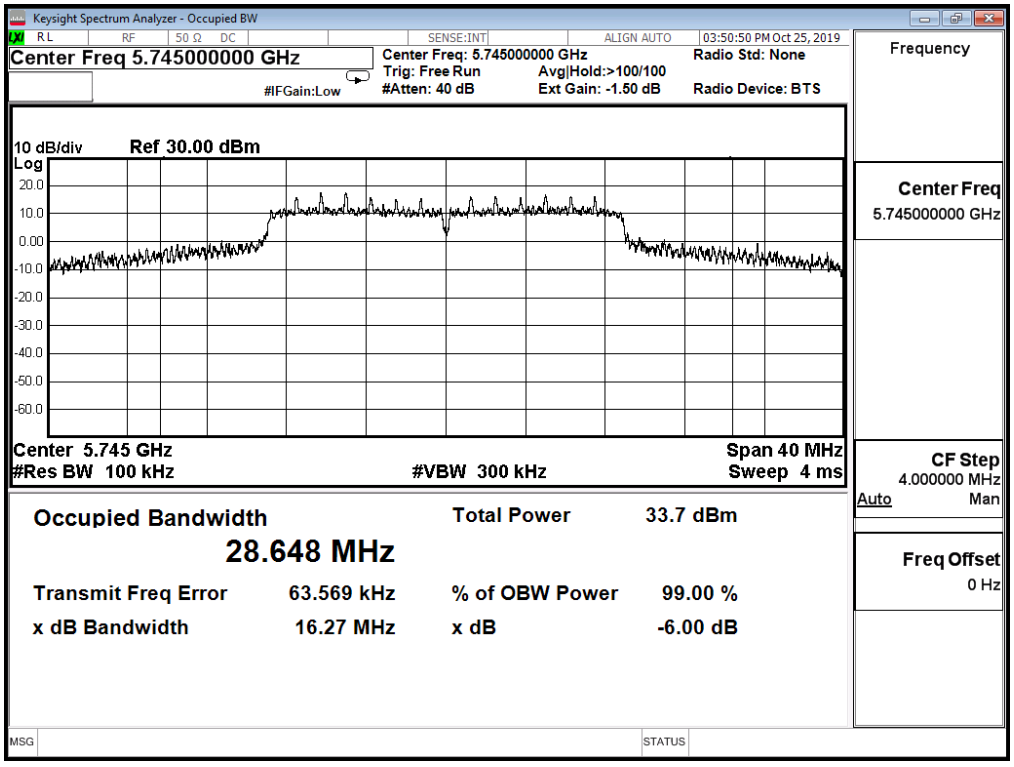
Channel165 (5825MHz)



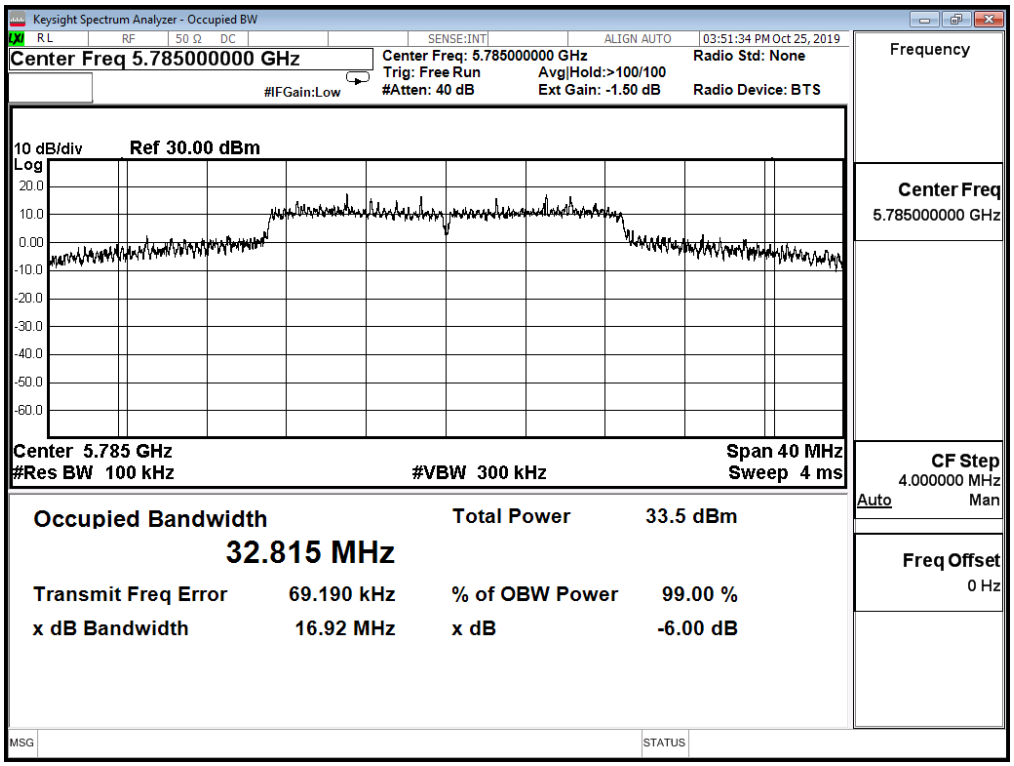
Product	Dual-Band Wireless USB adapter		
Test Item	Minimum Emission Bandwidth		
Test Mode	Mode 1: Transmit (Dipole Antenna)		
Date of Test	2019/10/25	Test Site	SR10-H
Temperature(°C)	24.6	Humidity (%RH)	62

IEEE 802.11n_20M (ANT0)				
Channel No.	Frequency (MHz)	Measure Value (MHz)	Limit (MHz)	Result
149	5745	16.270	Û0.5	Pass
157	5785	16.920	Û0.5	Pass
165	5825	15.660	Û0.5	Pass

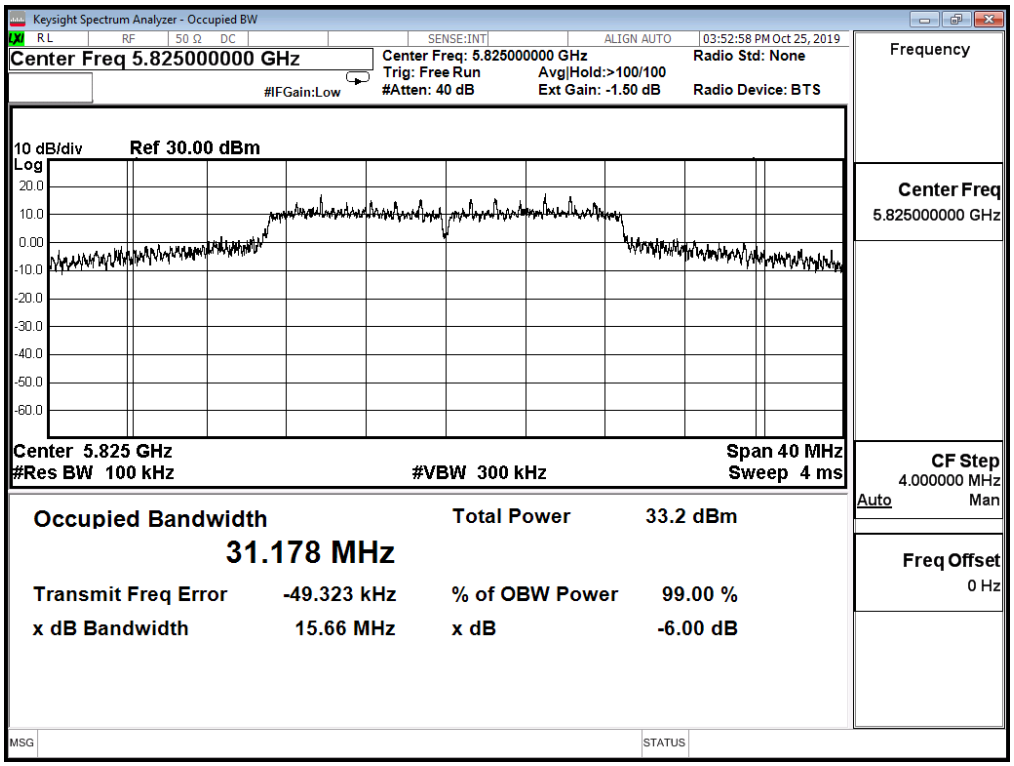
Channel 149 (5745MHz)



Channel 157 (5785MHz)



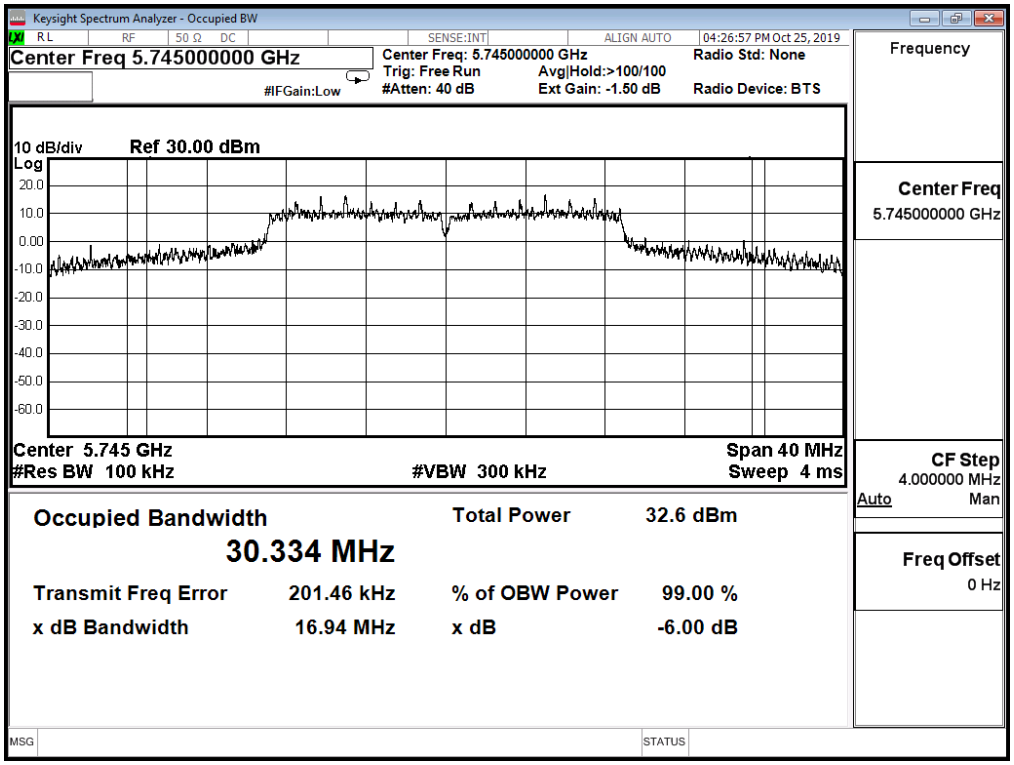
Channel 165 (5825MHz)



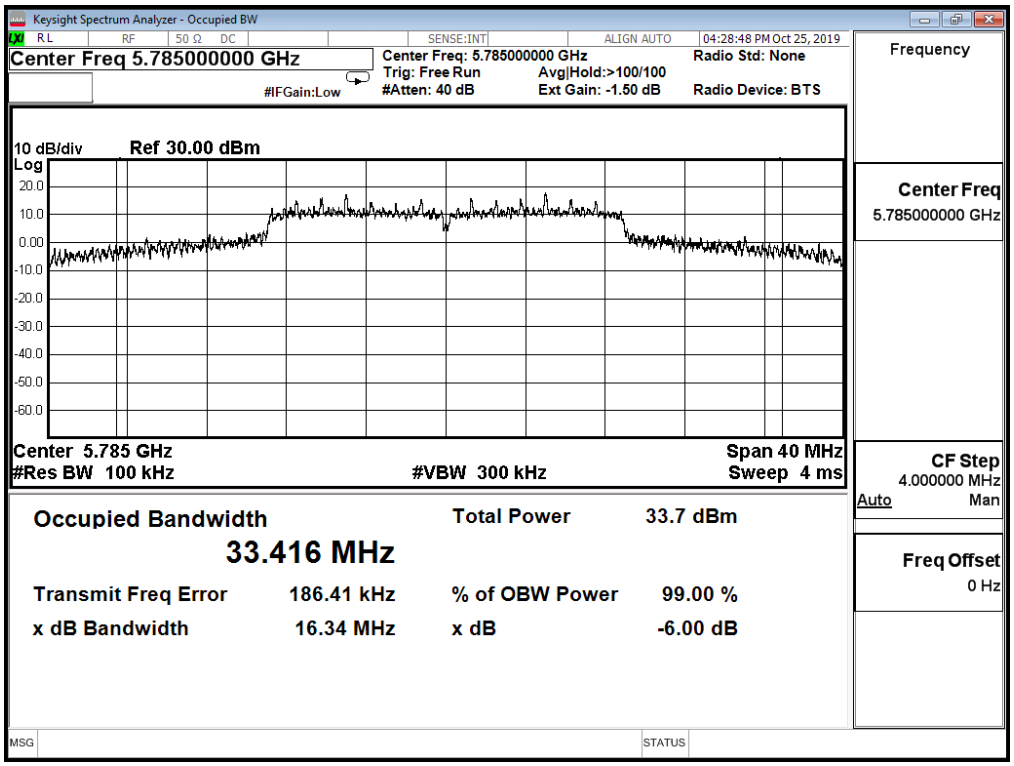
Product	Dual-Band Wireless USB adapter		
Test Item	Minimum Emission Bandwidth		
Test Mode	Mode 1: Transmit (Dipole Antenna)		
Date of Test	2019/10/25	Test Site	SR10-H
Temperature(°C)	24.6	Humidity (%RH)	62

IEEE 802.11n_20M (ANT1)				
Channel No.	Frequency (MHz)	Measure Value (MHz)	Limit (MHz)	Result
149	5745	16.940	Û0.5	Pass
157	5785	16.340	Û0.5	Pass
165	5825	16.070	Û0.5	Pass

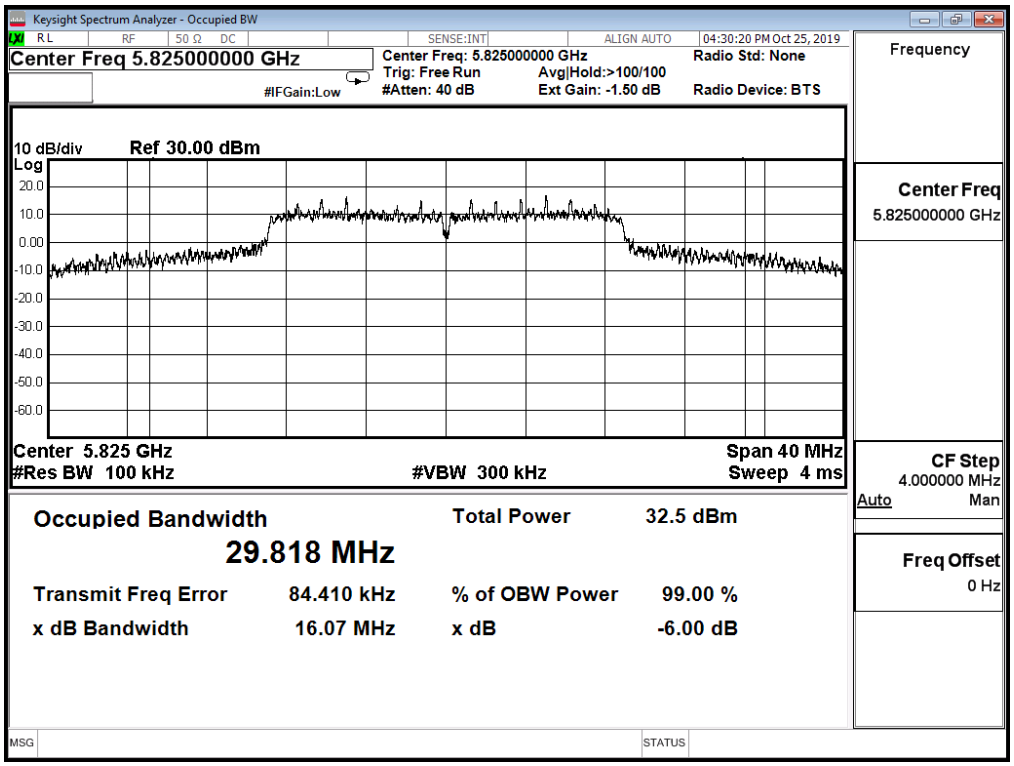
Channel 149 (5745MHz)



Channel 157 (5785MHz)



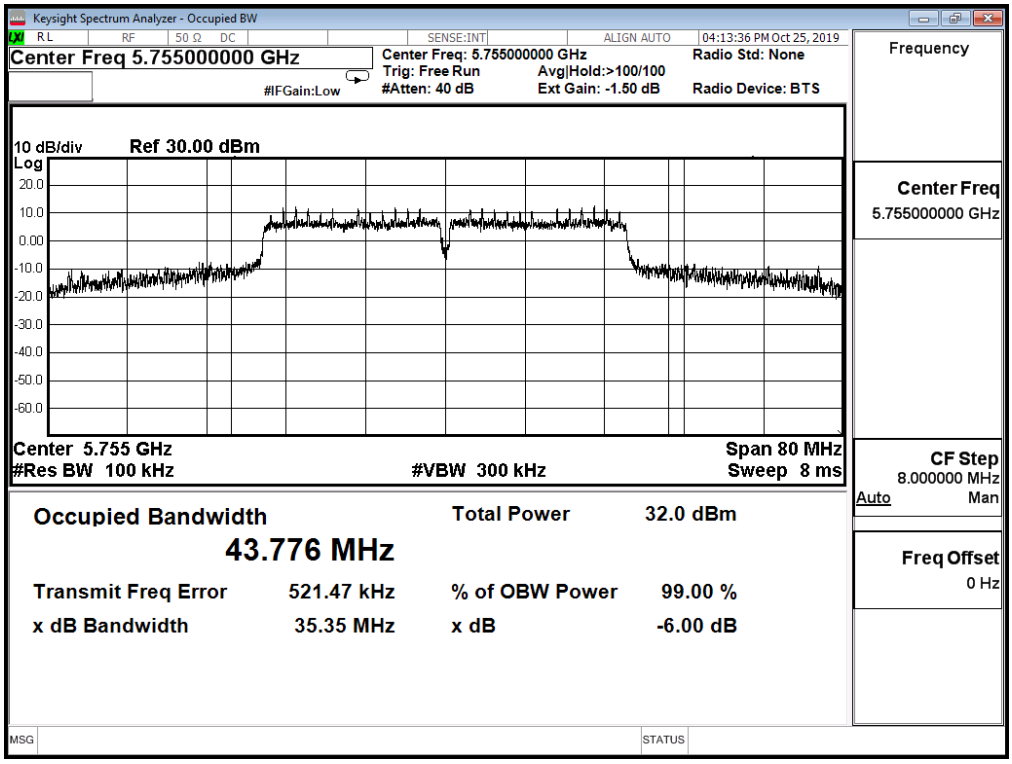
Channel 165 (5825MHz)



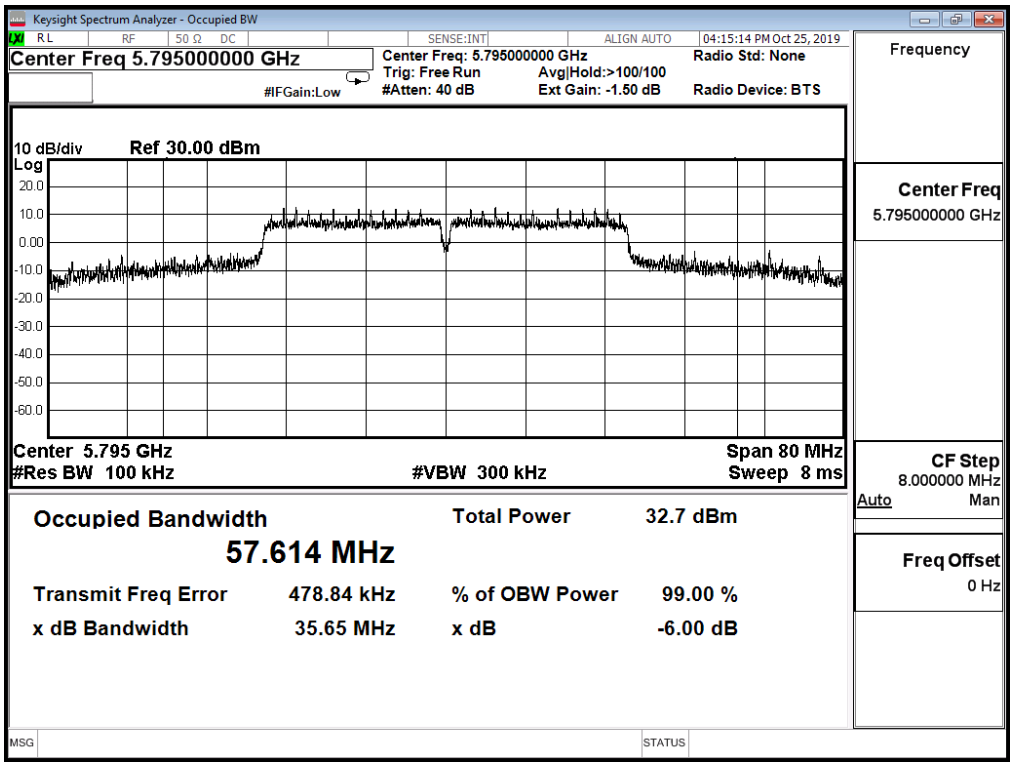
Product	Dual-Band Wireless USB adapter		
Test Item	Minimum Emission Bandwidth		
Test Mode	Mode 1: Transmit (Dipole Antenna)		
Date of Test	2019/10/25	Test Site	SR10-H
Temperature(°C)	24.6	Humidity (%RH)	62

IEEE 802.11n_40M (ANT0)				
Channel No.	Frequency (MHz)	Measure Value (MHz)	Limit (MHz)	Result
151	5755	35.350	Û0.5	Pass
159	5795	35.650	Û0.5	Pass

Channel 151 (5755MHz)



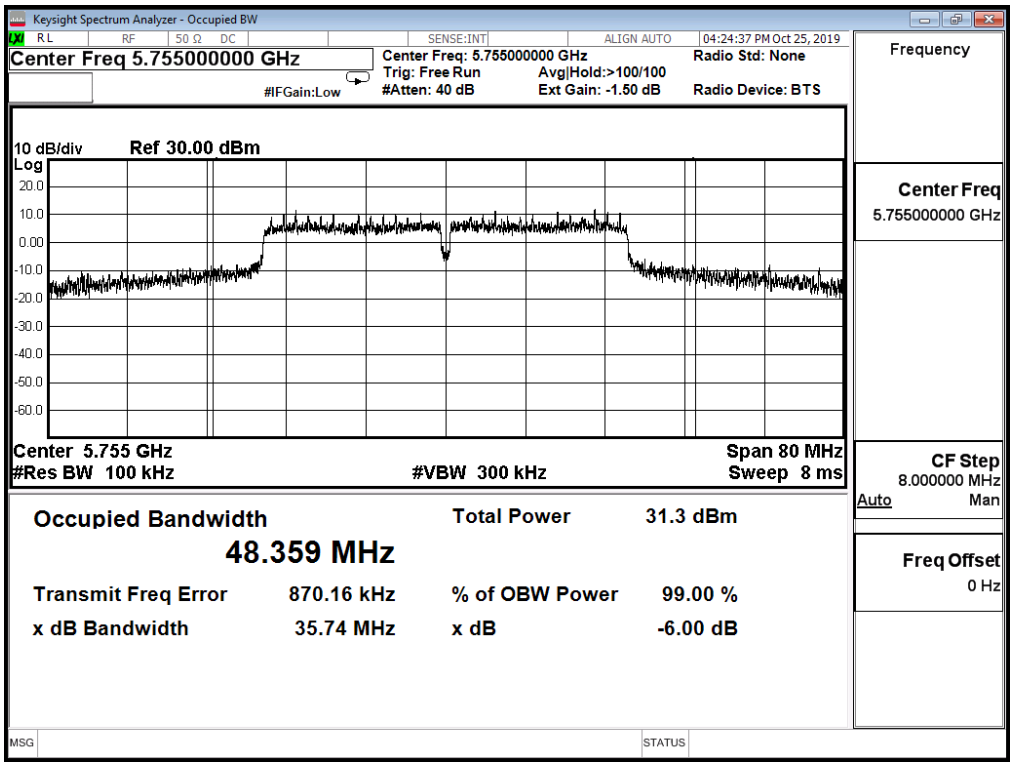
Channel 159 (5795MHz)



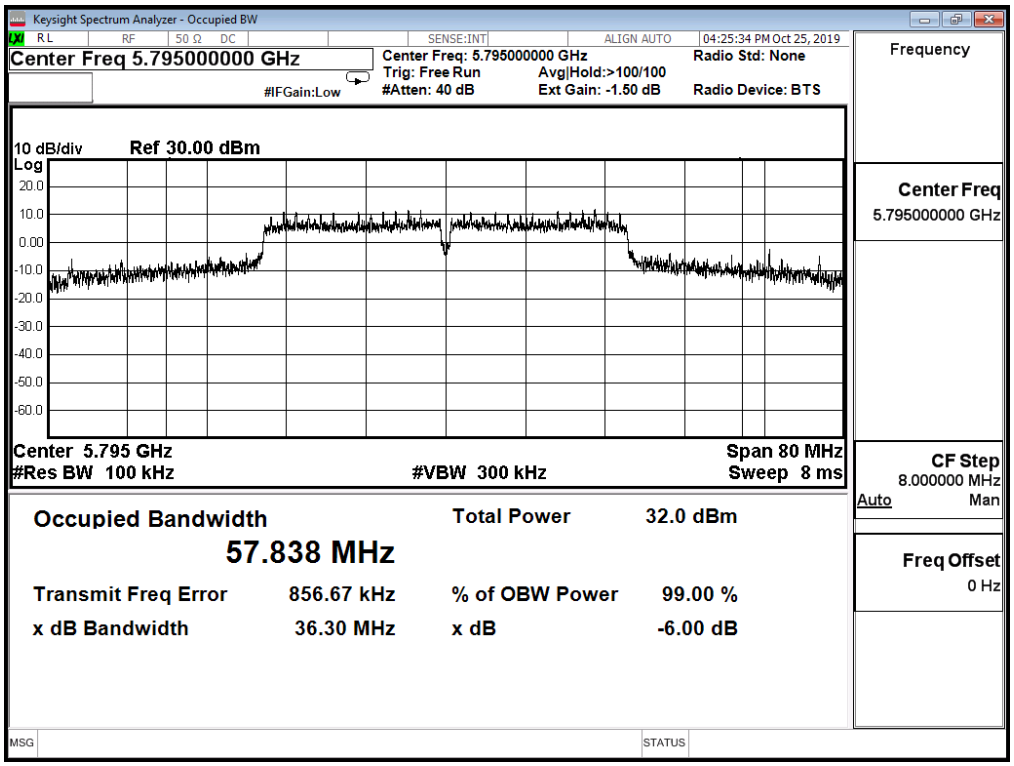
Product	Dual-Band Wireless USB adapter		
Test Item	Minimum Emission Bandwidth		
Test Mode	Mode 1: Transmit (Dipole Antenna)		
Date of Test	2019/10/25	Test Site	SR10-H
Temperature(°C)	24.6	Humidity (%RH)	62

IEEE 802.11n_40M (ANT1)				
Channel No.	Frequency (MHz)	Measure Value (MHz)	Limit (MHz)	Result
151	5755	35.740	Û0.5	Pass
159	5795	36.300	Û0.5	Pass

Channel 151 (5755MHz)



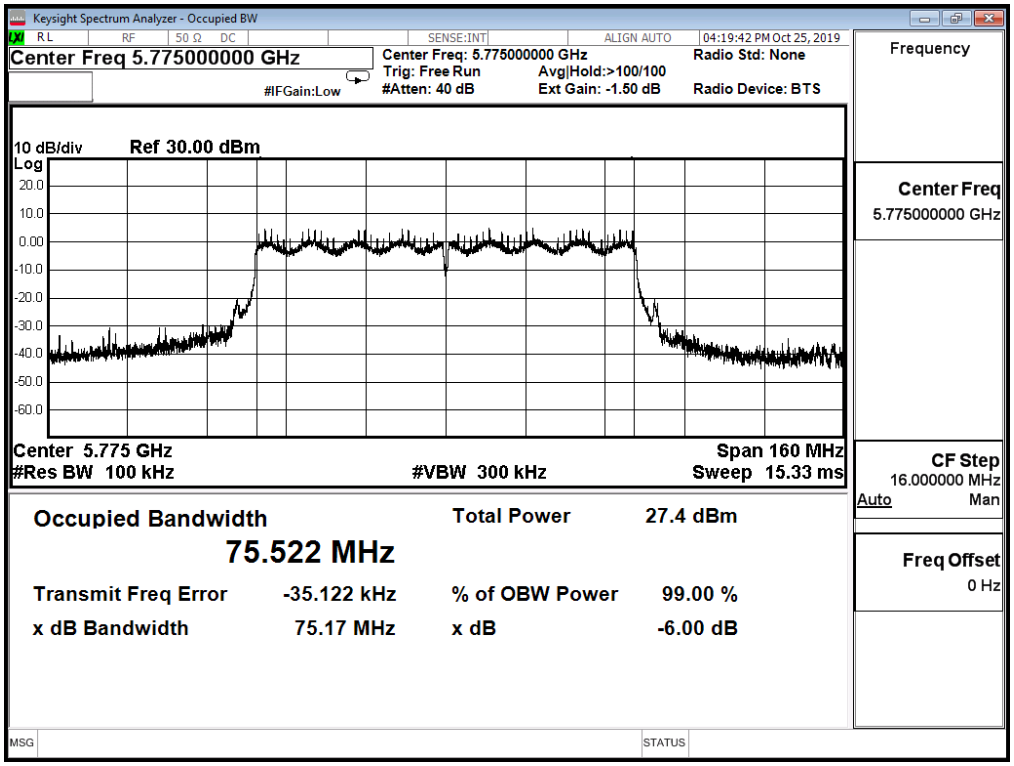
Channel 159 (5795MHz)



Product	Dual-Band Wireless USB adapter		
Test Item	Minimum Emission Bandwidth		
Test Mode	Mode 1: Transmit (Dipole Antenna)		
Date of Test	2019/10/25	Test Site	SR10-H
Temperature(°C)	24.6	Humidity (%RH)	62

IEEE 802.11ac_80M (ANT0)				
Channel No.	Frequency (MHz)	Measure Value (MHz)	Limit (MHz)	Result
155	5775	75.170	Û0.5	Pass

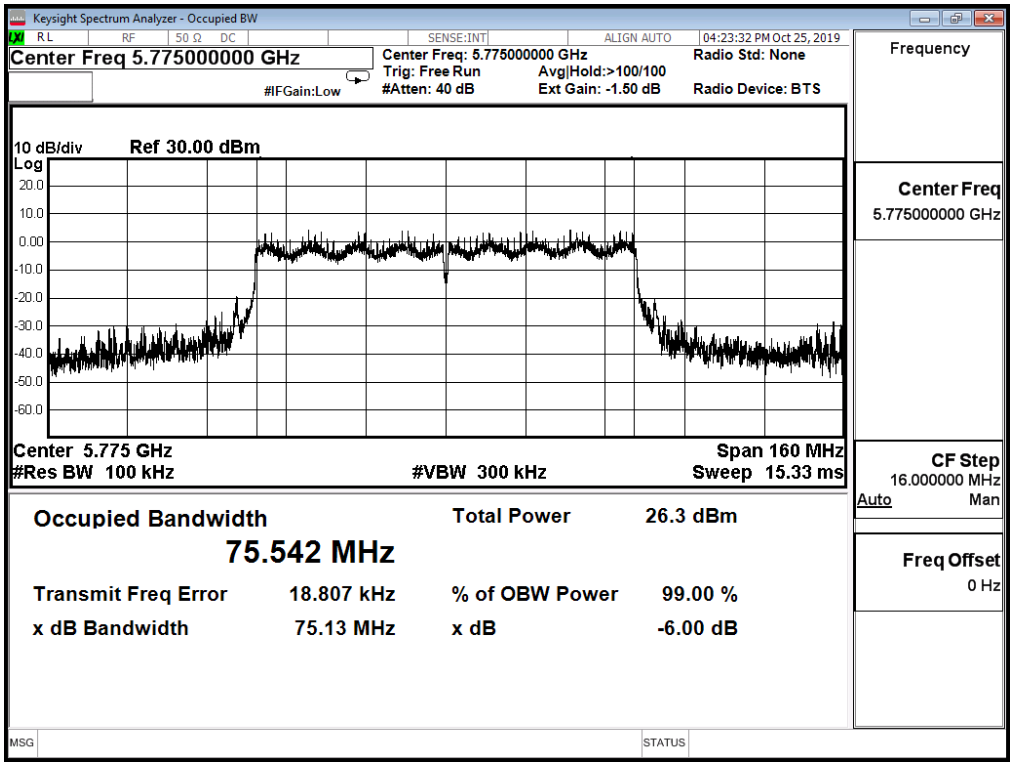
Channel 155 (5775MHz)



Product	Dual-Band Wireless USB adapter		
Test Item	Minimum Emission Bandwidth		
Test Mode	Mode 1: Transmit (Dipole Antenna)		
Date of Test	2019/10/25	Test Site	SR10-H
Temperature(°C)	24.6	Humidity (%RH)	62

IEEE 802.11ac_80M (ANT1)				
Channel No.	Frequency (MHz)	Measure Value (MHz)	Limit (MHz)	Result
155	5775	75.130	Û0.5	Pass

Channel 155 (5775MHz)



5. Maximum conducted output power

5.1. Test Setup

5.2. Limits

(1) 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 conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, 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 conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, 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 conducted output power over the frequency band of operation shall not exceed 1 W. In addition, 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 conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. 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.

(2) 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 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.

(3) For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, 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. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. 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.

5.3. Test Procedure

The EUT was setup to ANSI C63.10: 2013; tested to U-NII test procedure of 789033 D02 v02r01 for compliance to FCC 47CFR Subpart E requirements. The Method SA-1 of the Maximum conducted output power was used.

Set RBW=1MHz, VBW=3MHz with RMS detector and trace average 100 traces in power averaging mode. Set span to encompass the entire emission bandwidth (EBW) of the signal. Compute power by integrating the spectrum across the 26 dB EBW of the signal.

5.4. Test Result

Product	Dual-Band Wireless USB adapter		
Test Item	Maximum conducted output power		
Test Mode	Mode 1: Transmit (Dipole Antenna)		
Date of Test	2019/11/03	Test Site	SR10-H
Temperature(°C)	25	Humidity (%RH)	59

IEEE 802.11a (ANT 0)

Channel No.	Frequency (MHz)	Output Power (dBm)	Required Limit (dBm)
149	5745	15.190	Ú30.000
157	5785	15.330	Ú30.000
165	5825	15.320	Ú30.000

The worst emission of data rate is 6 Mbps.

Channel No	Frequency (MHz)	Data Rate						
		6	12	18	24	36	48	54
149	5745	15.190	--	--	--	--	--	--
157	5785	15.330	15.190	15.060	14.920	14.770	14.630	14.500
165	5825	15.320	--	--	--	--	--	--

Product	Dual-Band Wireless USB adapter		
Test Item	Maximum conducted output power		
Test Mode	Mode 1: Transmit (Dipole Antenna)		
Date of Test	2019/11/03	Test Site	SR10-H
Temperature(°C)	25	Humidity (%RH)	59

IEEE 802.11n(20MHz)(ANT 0)

Channel No.	Frequency (MHz)	Output Power (dBm)	Required Limit (dBm)
149	5745	14.850	Ú30.000
157	5785	14.770	Ú30.000
165	5825	14.720	Ú30.000

The worst emission of data rate is MCS8

Channel No	Frequency (MHz)	MCS Index							
		8	9	10	11	12	13	14	15
149	5745	14.850	--	--	--	--	--	--	--
157	5785	14.770	14.640	14.500	14.360	14.220	14.090	13.950	13.800
165	5825	14.720	--	--	--	--	--	--	--

Product	Dual-Band Wireless USB adapter		
Test Item	Maximum conducted output power		
Test Mode	Mode 1: Transmit (Dipole Antenna)		
Date of Test	2019/11/03	Test Site	SR10-H
Temperature(°C)	25	Humidity (%RH)	59

IEEE 802.11n(20MHz)(ANT 1)

Channel No.	Frequency (MHz)	Output Power (dBm)	Required Limit (dBm)
149	5745	14.860	Ú30.000
157	5785	14.780	Ú30.000
165	5825	14.810	Ú30.000

The worst emission of data rate is MCS8

Channel No	Frequency (MHz)	MCS Index							
		8	9	10	11	12	13	14	15
149	5745	14.860	--	--	--	--	--	--	--
157	5785	14.780	14.630	14.490	14.350	14.210	14.070	13.930	13.780
165	5825	14.810	--	--	--	--	--	--	--

Product	Dual-Band Wireless USB adapter		
Test Item	Maximum conducted output power		
Test Mode	Mode 1: Transmit (Dipole Antenna)		
Date of Test	2019/11/03	Test Site	SR10-H
Temperature(°C)	25	Humidity (%RH)	59

IEEE 802.11n(20MHz)(ANT 0+1)

Channel No.	Frequency (MHz)	Output Power (dBm)	Required Limit (dBm)
149	5745	17.865	Ú30.000
157	5785	17.785	Ú30.000
165	5825	17.776	Ú30.000

Product	Dual-Band Wireless USB adapter		
Test Item	Maximum conducted output power		
Test Mode	Mode 1: Transmit (Dipole Antenna)		
Date of Test	2019/11/03	Test Site	SR10-H
Temperature(°C)	25	Humidity (%RH)	59

IEEE 802.11n(40MHz)(ANT 0)

Channel No.	Frequency (MHz)	Output Power (dBm)	Required Limit (dBm)
151	5755	14.580	Ú30.000
159	5795	14.510	Ú30.000

The worst emission of data rate is MCS8

Channel No	Frequency (MHz)	MCS Index							
		8	9	10	11	12	13	14	15
151	5755	14.580	14.540	14.500	14.360	14.220	14.090	13.950	13.800
159	5795	14.510	--	--	--	--	--	--	--

Product	Dual-Band Wireless USB adapter		
Test Item	Maximum conducted output power		
Test Mode	Mode 1: Transmit (Dipole Antenna)		
Date of Test	2019/11/03	Test Site	SR10-H
Temperature(°C)	25	Humidity (%RH)	59

IEEE 802.11n(40MHz)(ANT 1)

Channel No.	Frequency (MHz)	Output Power (dBm)	Required Limit (dBm)
151	5755	14.700	Ú30.000
159	5795	14.930	Ú30.000

The worst emission of data rate is MCS8

Channel No	Frequency (MHz)	MCS Index							
		8	9	10	11	12	13	14	15
151	5755	14.700	14.570	14.420	14.280	14.140	14.010	13.870	13.740
159	5795	14.930	--	--	--	--	--	--	--

Product	Dual-Band Wireless USB adapter		
Test Item	Maximum conducted output power		
Test Mode	Mode 1: Transmit (Dipole Antenna)		
Date of Test	2019/11/03	Test Site	SR10-H
Temperature(°C)	25	Humidity (%RH)	59

IEEE 802.11n(40MHz)(ANT 0+1)

Channel No.	Frequency (MHz)	Output Power (dBm)	Required Limit (dBm)
151	5755	17.651	Ú30.000
159	5795	17.735	Ú30.000

Product	Dual-Band Wireless USB adapter		
Test Item	Maximum conducted output power		
Test Mode	Mode 1: Transmit (Dipole Antenna)		
Date of Test	2019/11/03	Test Site	SR10-H
Temperature(°C)	25	Humidity (%RH)	59

IEEE 802.11ac(80MHz) (ANT 0)

Channel No.	Frequency (MHz)	Output Power (dBm)	Required Limit (dBm)
155	5775	14.900	≦30.000

The worst emission of data rate is MCS0

Channel No	Frequency (MHz)	MCS Index									
		0	1	2	3	4	5	6	7	8	9
155	5775	14.900	14.770	14.630	14.500	14.350	14.210	14.070	13.940	13.810	13.670

Product	Dual-Band Wireless USB adapter		
Test Item	Maximum conducted output power		
Test Mode	Mode 1: Transmit (Dipole Antenna)		
Date of Test	2019/11/03	Test Site	SR10-H
Temperature(°C)	25	Humidity (%RH)	59

IEEE 802.11ac(80MHz) (ANT 1)

Channel No.	Frequency (MHz)	Output Power (dBm)	Required Limit (dBm)
155	5775	14.790	Ú30.000

The worst emission of data rate is MCS0

Channel No	Frequency (MHz)	MCS Index									
		0	1	2	3	4	5	6	7	8	9
155	5775	14.790	14.660	14.520	14.390	14.250	14.110	13.960	13.810	13.670	13.540

Product	Dual-Band Wireless USB adapter		
Test Item	Maximum conducted output power		
Test Mode	Mode 1: Transmit (Dipole Antenna)		
Date of Test	2019/11/03	Test Site	SR10-H
Temperature(°C)	25	Humidity (%RH)	59

IEEE 802.11ac(80MHz) (ANT 0+1)

Channel No.	Frequency (MHz)	Output Power (dBm)	Required Limit (dBm)
155	5775	17.856	Ú30.000

6. Maximum power spectral density

6.1. Test Setup

6.2. Limits

1. For the band 5.15-5.25 GHz, the Maximum power spectral density shall not exceed 17 dBm in any 1MHz band. If transmitting antenna of directional gain greater than 6 dBi are used, the Maximum power spectral density shall be reduced by the amount in dB that directional gain of the antenna exceeds 6 dBi.
2. 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
3. For the band 5.25-5.35 GHz, the Maximum power spectral density shall not exceed 11 dBm in any 1-MHz band. If transmitting antenna of directional gain greater than 6 dBi are used, the Maximum power spectral density shall be reduced by the amount in dB that directional gain of the antenna exceeds 6 dBi.
4. For the band 5.725-5.850 GHz, the Maximum power spectral density shall not exceed 30 dBm in any 500KHz band. If transmitting antenna of directional gain greater than 6 dBi are used, the Maximum power spectral density shall be reduced by the amount in dB that directional gain of the antenna exceeds 6 dBi..

6.3. Test Procedure

The EUT was setup to ANSI C63.10: 2013; tested to U-NII test procedure of KDB 789033.D02 v02r01 for compliance to FCC 47CFR Subpart E requirements.

For Band1 : Set RBW=1MHz, VBW=3MHz with RMS detector. The PPSD is the highest level found across the emission in any 1-MHz band after 100 sweeps of averaging.

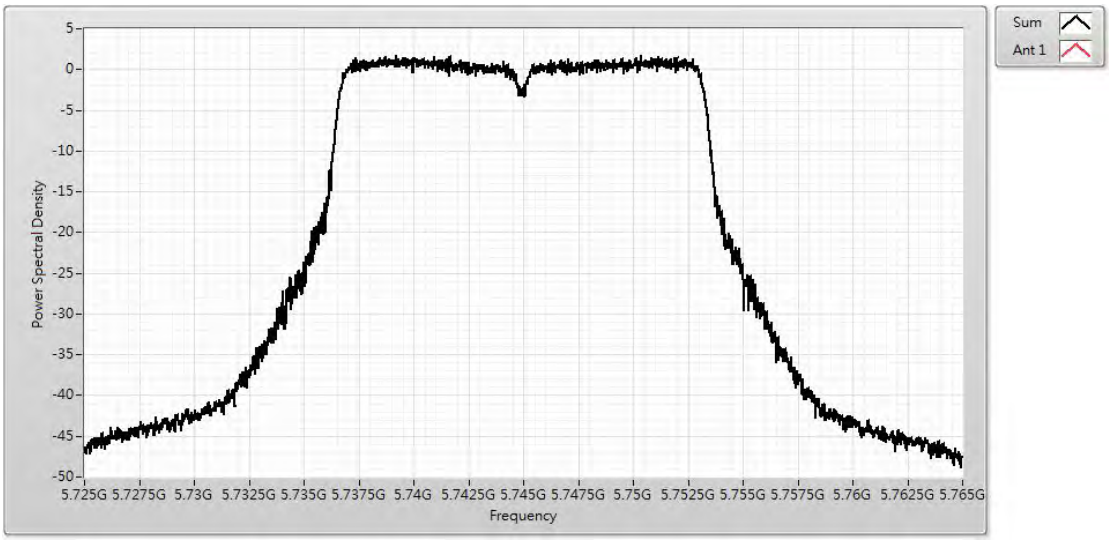
For Band4 : Set RBW=500KHz, VBW=1.5MHz with RMS detector. The PPSD is the highest level found across the emission in any 500KHz band after 100 sweeps of averaging.

6.4. Test Result

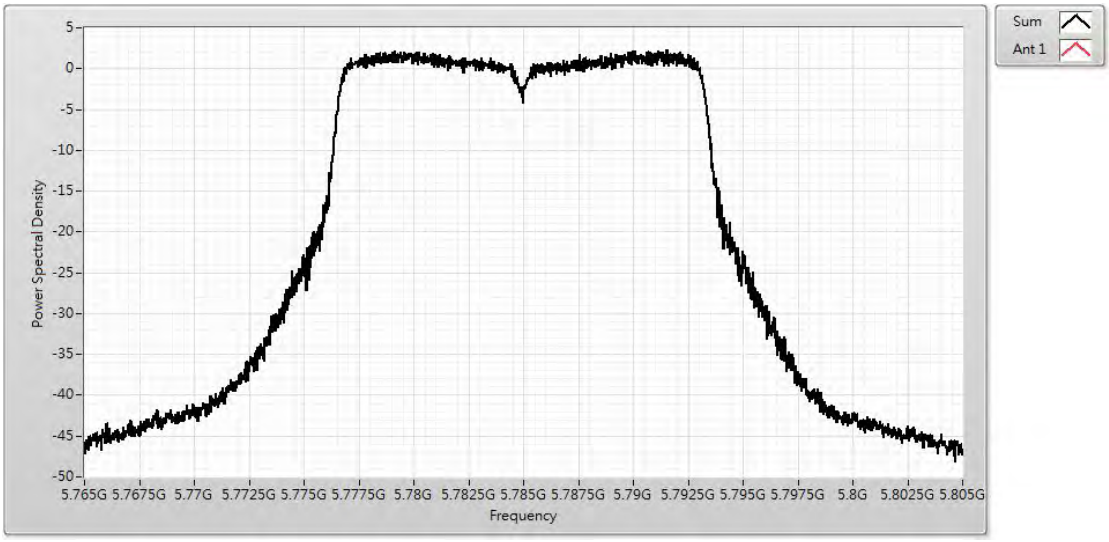
Product	Dual-Band Wireless USB adapter		
Test Item	Maximum power spectral density		
Test Mode	Mode 1: Transmit (Dipole Antenna)		
Date of Test	2019/11/04	Test Site	SR10-H
Temperature(°C)	26	Humidity (%RH)	58

IEEE 802.11a (ANT0)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
149	5745	1.800	Ú30.000	Pass
157	5785	2.240	Ú30.000	Pass
165	5825	2.960	Ú30.000	Pass

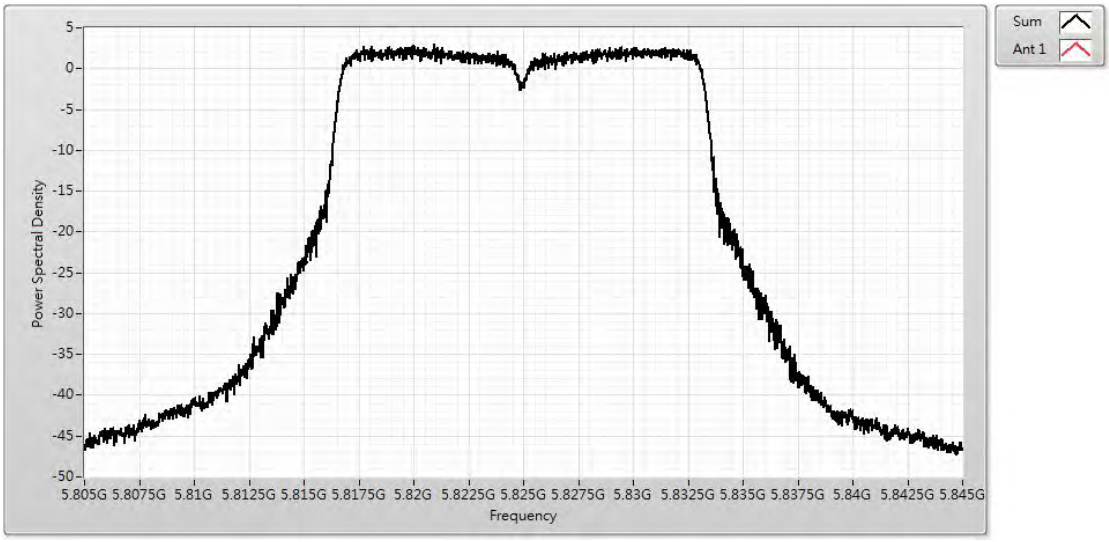
Channel 149



Channel 157



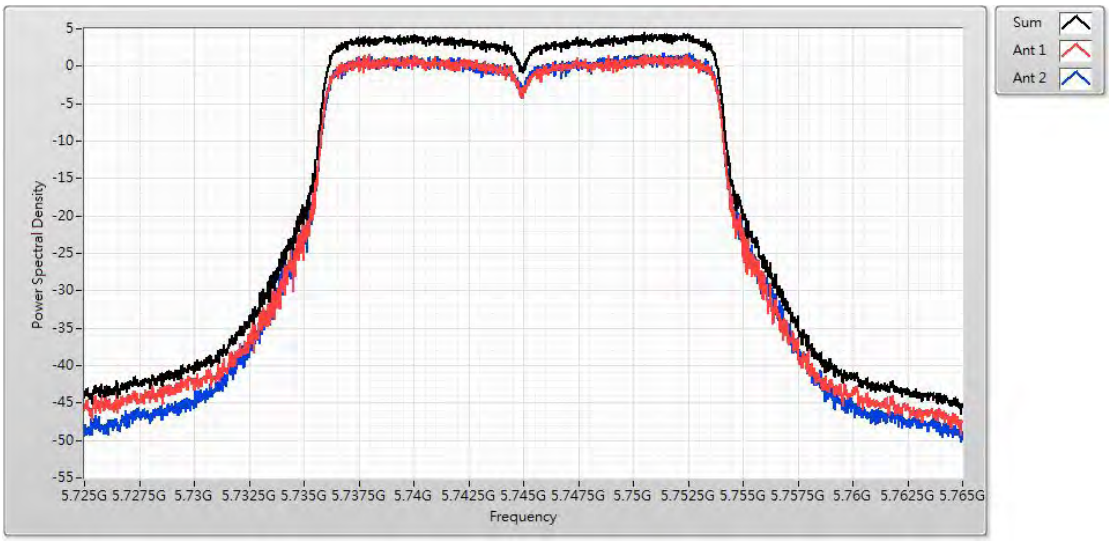
Channel 165



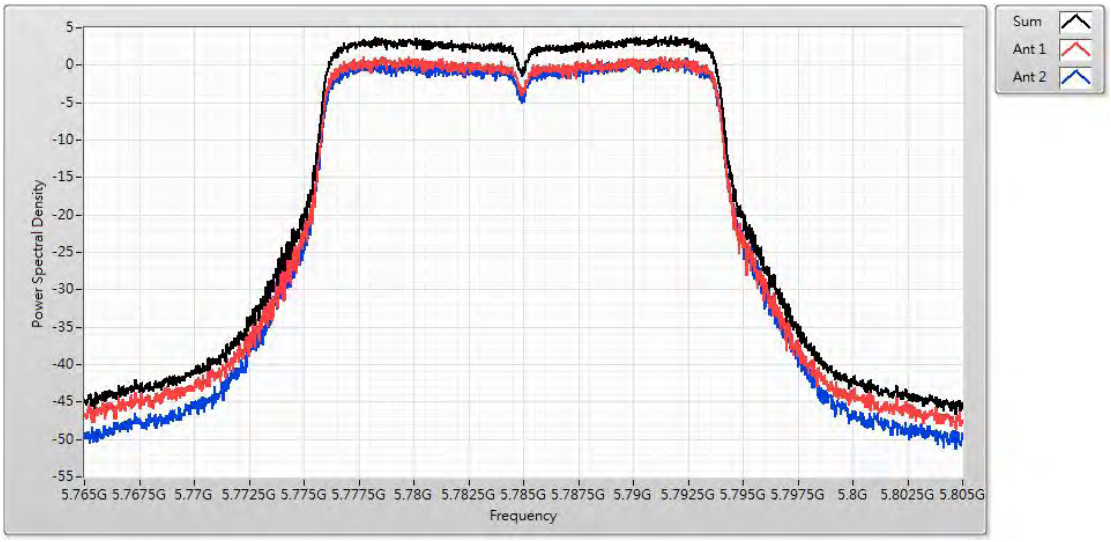
Product	Dual-Band Wireless USB adapter		
Test Item	Maximum power spectral density		
Test Mode	Mode 1: Transmit (Dipole Antenna)		
Date of Test	2019/11/04	Test Site	SR10-H
Temperature(°C)	26	Humidity (%RH)	58

IEEE 802.11n(20MHz)(ANT0+1)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
149	5745	4.550	Ú30.000	Pass
157	5785	3.910	Ú30.000	Pass
165	5825	4.000	Ú30.000	Pass

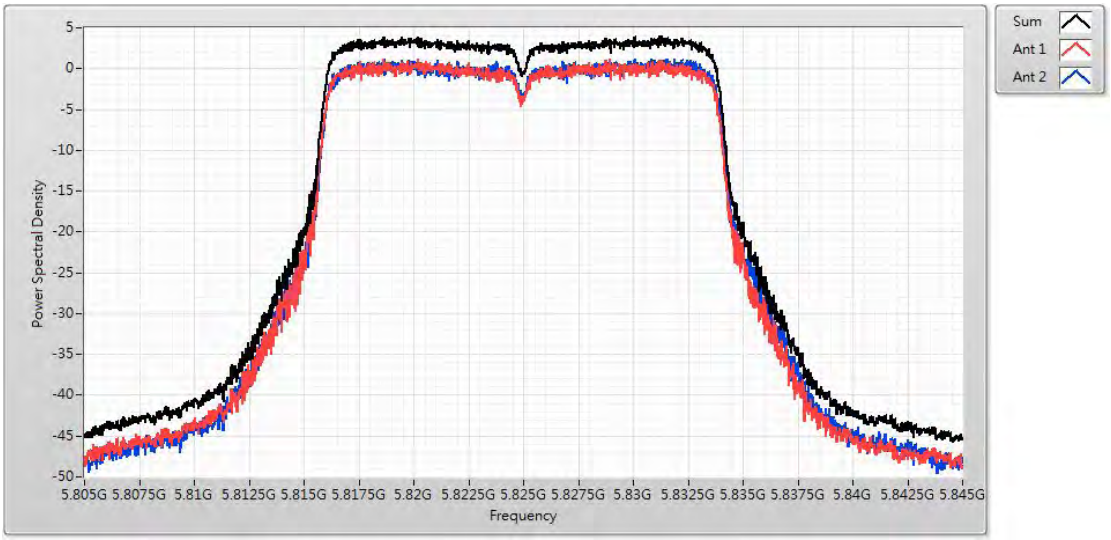
Channel 149



Channel 157



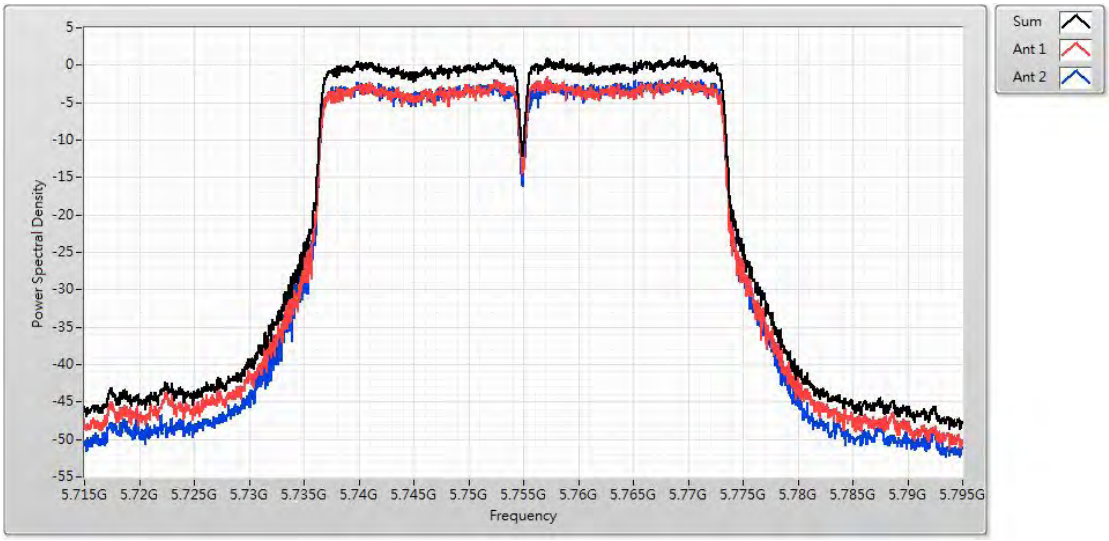
Channel 165



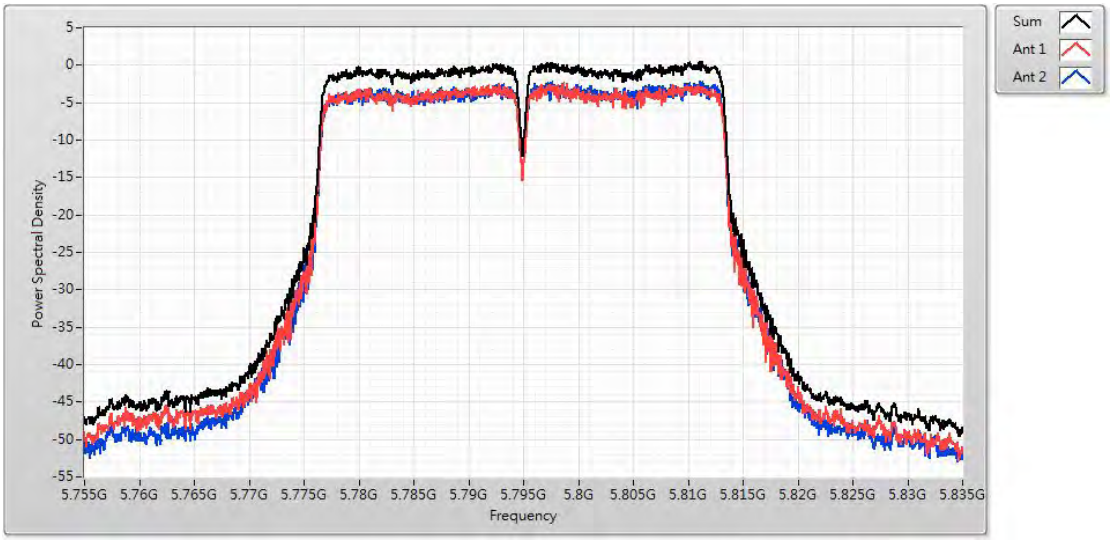
Product	Dual-Band Wireless USB adapter		
Test Item	Maximum power spectral density		
Test Mode	Mode 1: Transmit (Dipole Antenna)		
Date of Test	2019/11/04	Test Site	SR10-H
Temperature(°C)	26	Humidity (%RH)	58

IEEE 802.11n(40MHz)(ANT0+1)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
151	5755	1.230	Ú30.000	Pass
159	5795	0.470	Ú30.000	Pass

Channel 151



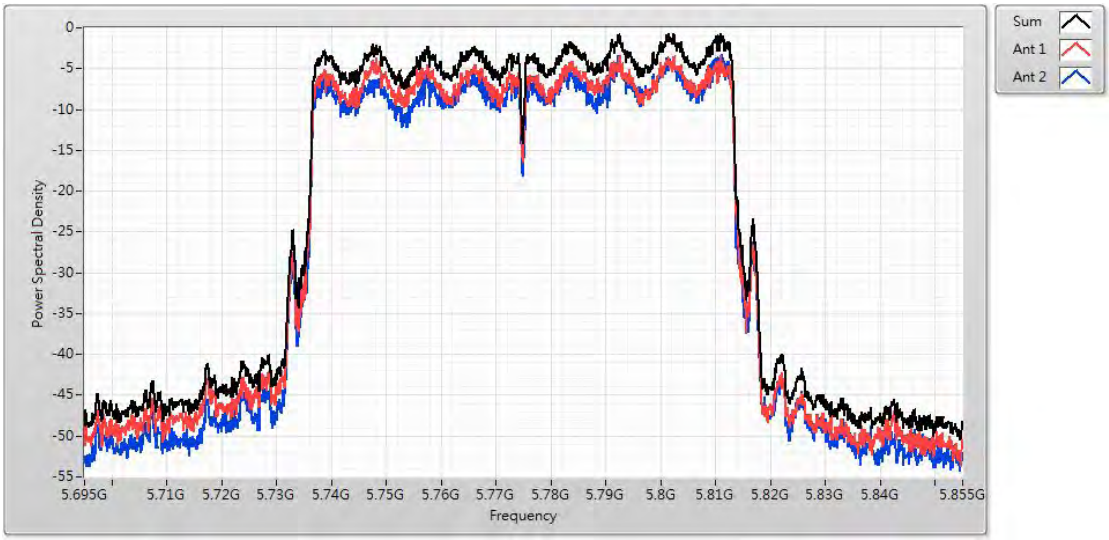
Channel 159


Sum
Ant 1
Ant 2
Power Spectral Density
5
0
-5
-10
-15
-20
-25
-30
-35
-40
-45
-50
-55
5.755G
5.76G
5.765G
5.77G
5.775G
5.78G
5.785G
5.79G
5.795G
5.8G
5.805G
5.81G
5.815G
5.82G
5.825G
5.83G
5.835G
Frequency

Product	Dual-Band Wireless USB adapter		
Test Item	Maximum power spectral density		
Test Mode	Mode 1: Transmit (Dipole Antenna)		
Date of Test	2019/11/04	Test Site	SR10-H
Temperature(°C)	26	Humidity (%RH)	58

IEEE 802.11ac(80MHz)(ANT0+1)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
155	5775	-0.720	Ú30.000	Pass

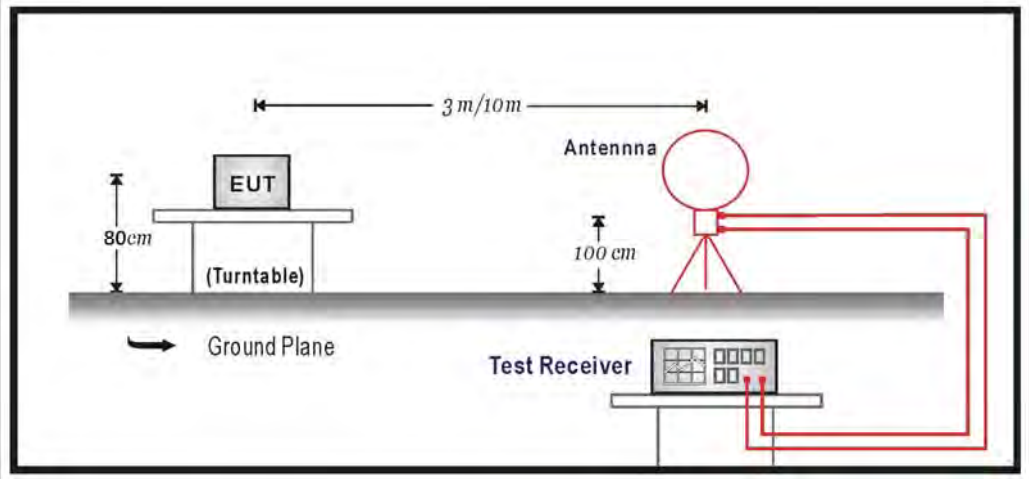
Channel 155



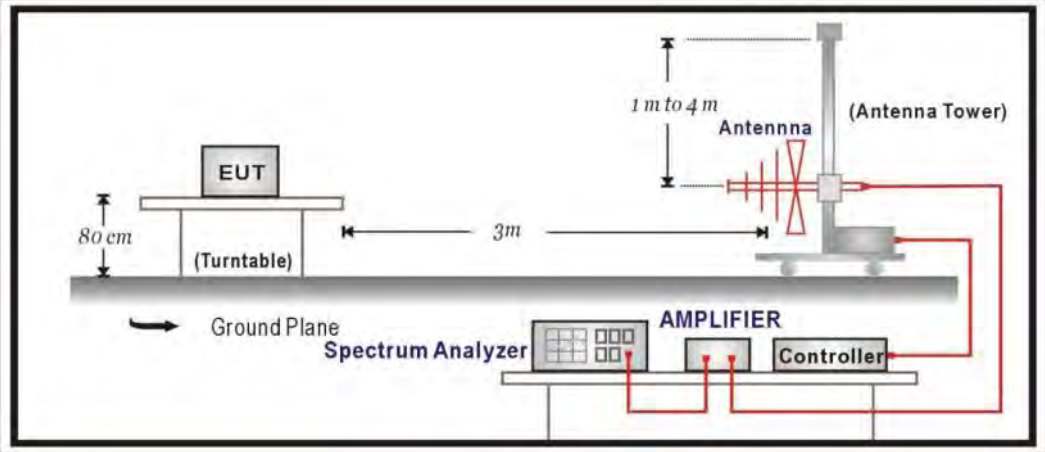
7. Radiated Emission

7.1. Test Setup

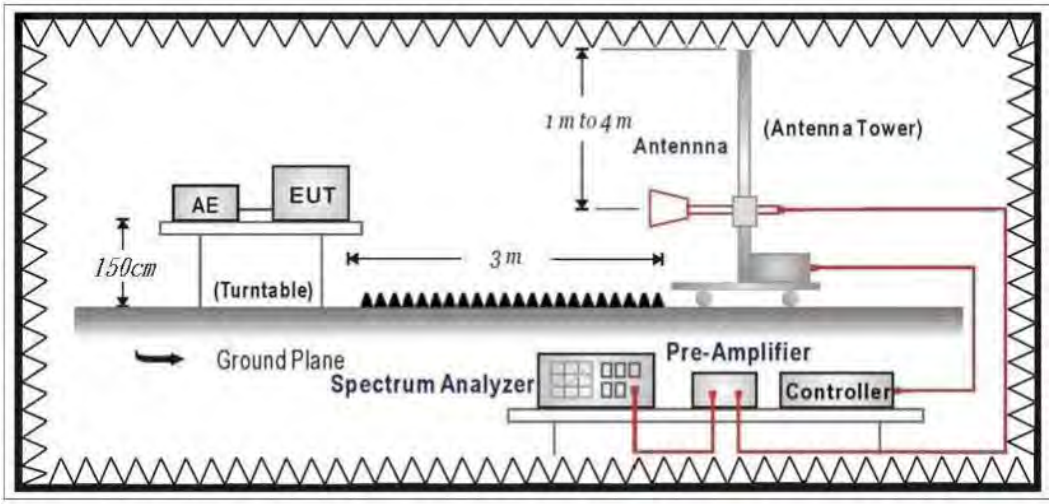
Under 30MHz Test Setup:



Under 1GHz Test Setup:



Above 1GHz Test Setup:



7.2. Limits

➢ **General Radiated Emission Limits**

The provisions of Section 15.205 of this part apply to intentional radiators operating under this section. Radiated emissions which fall in the restricted bands, as defined in Section 15.205, must also comply with the radiated emission limits specified in Section 15.209:

FCC Part 15 Subpart C Paragraph 15.209 Limits		
Frequency MHz	uV/m @3m	dBuV/m@3m
30-88	100	40
88-216	150	43.5
216-960	200	46
Above 960	500	54

Remark:

1. RF Voltage (dBuV) = 20 log RF Voltage (uV)
2. In the Above Table, the tighter limit applies at the band edges.
3. Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.

➢ **Unwanted Emission out of the restricted bands Limits**

FCC Part 15 Subpart E Paragraph 15.407(b) Limits		
Frequency (MHz)	EIRP Limit (dBm)	Equivalent Field Strength (dBuV/m@3m)
5150 - 5250	-27	68.3
5250 - 5350	-27	68.3
5470 - 5725	-27	68.3
5725 - 5850	-27 (Note1)	68.3
	-17 (Note2)	78.3

Remark:

1. For frequencies more than 10 MHz above or below the band edges.
2. For frequency range from the band edges to 10 MHz above or below the band edges.
3. uV/m = $\frac{1000000\sqrt{30\times EIRP}}{3}$, RF Voltage (dBuV/m) = 20 log RF Voltage (uV/m)

7.3. Test Procedure

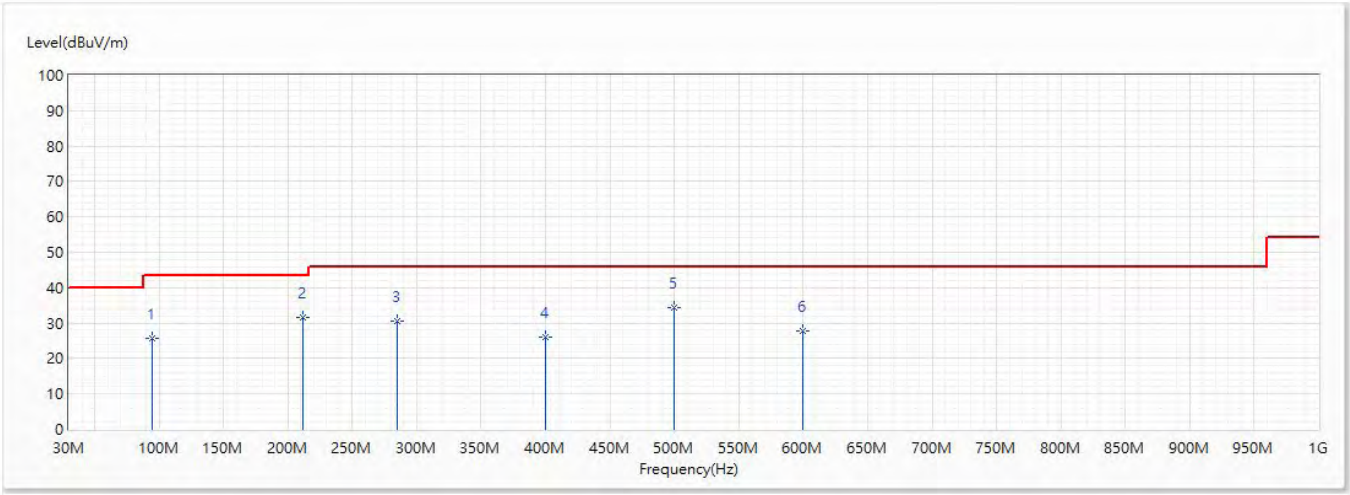
The EUT and its simulators are placed on a turn table which is 0.8 or 1.5 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.
The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level.
Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated according to ANSI C63.10: 2013 on radiated measurement.

The additional latch filter below 1GHz was used to measure the level of harmonics radiated emission during field dtrength of harmonics measurement.
The bandwidth below 1GHz setting on the field strength meter is 120 KHz, above 1GHz are 1 MHz.
The frequency range from 30MHz to 10th harmonics and included The frequency range from the lowest oscillator frequency generated within the device up to the 10th harmonic was checked is checked.

7.4. Test Result

30MHz-1GHz Spurious

Site :	CB2-H	Engineer :	Elwin
Model No :	USB-AC56	Test Date :	2019/10/17
Test Voltage :	DC 5V (Power by PC)	Polarity :	Horizontal
Test Mode :	Mode 1: Transmit (Dipole Antenna)		
Note :	802.11a_5785MHz_MIMO		
Environmental Condition:	Temperature ( ) : 24.6 ; Relative Humidity (%RH) : 57.3		

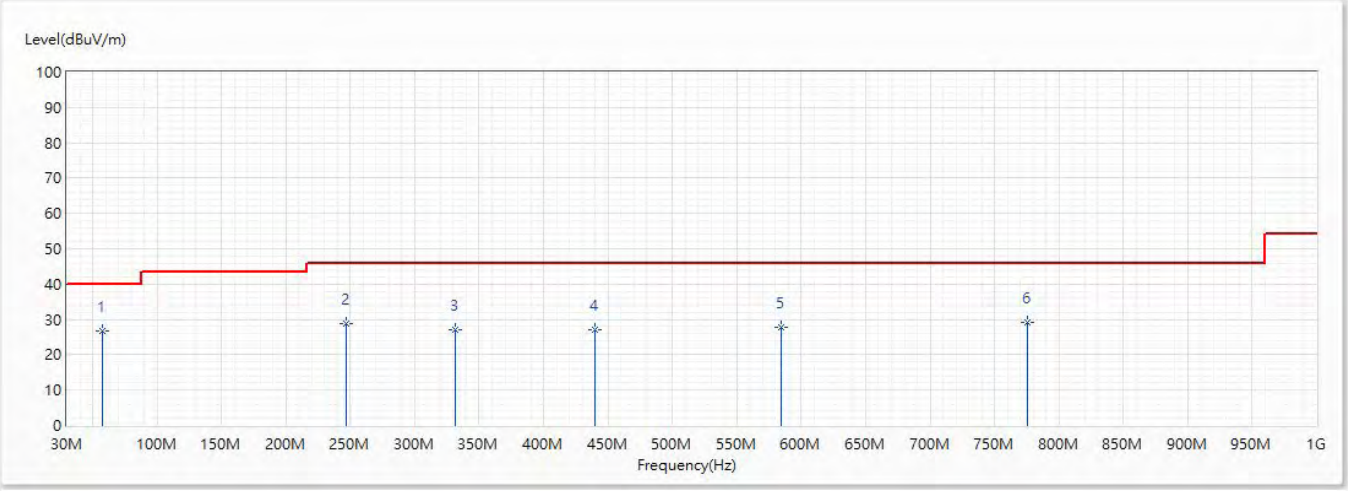


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	94.99	25.65	43.50	-17.85	50.17	-24.52	QP
2	211.269	31.65	43.50	-11.85	54.51	-22.86	QP
3	284.989	30.50	46.00	-15.50	50.44	-19.94	QP
4	399.934	25.97	46.00	-20.03	42.24	-16.27	QP
* 5	499.965	34.30	46.00	-11.70	48.66	-14.36	QP
6	599.996	27.91	46.00	-18.09	41.18	-13.27	QP

Note:

1. All reading levels is Quasi-Peak value.
2. “ * ”, means this data is the worst value.
3. Emission Level = Reading Level + Correct Factor.
4. The emission under 30MHz were not included is because their levels are lower than 20dB from limit.

Site :	CB2-H	Engineer :	Elwin
Model No :	USB-AC56	Test Date :	2019/10/17
Test Voltage :	DC 5V (Power by PC)	Polarity :	Vertical
Test Mode :	Mode 1: Transmit (Dipole Antenna)		
Note :	802.11a_5785MHz_MIMO		
Environmental Condition:	Temperature ( ) : 24.6 ; Relative Humidity (%RH) : 57.3		

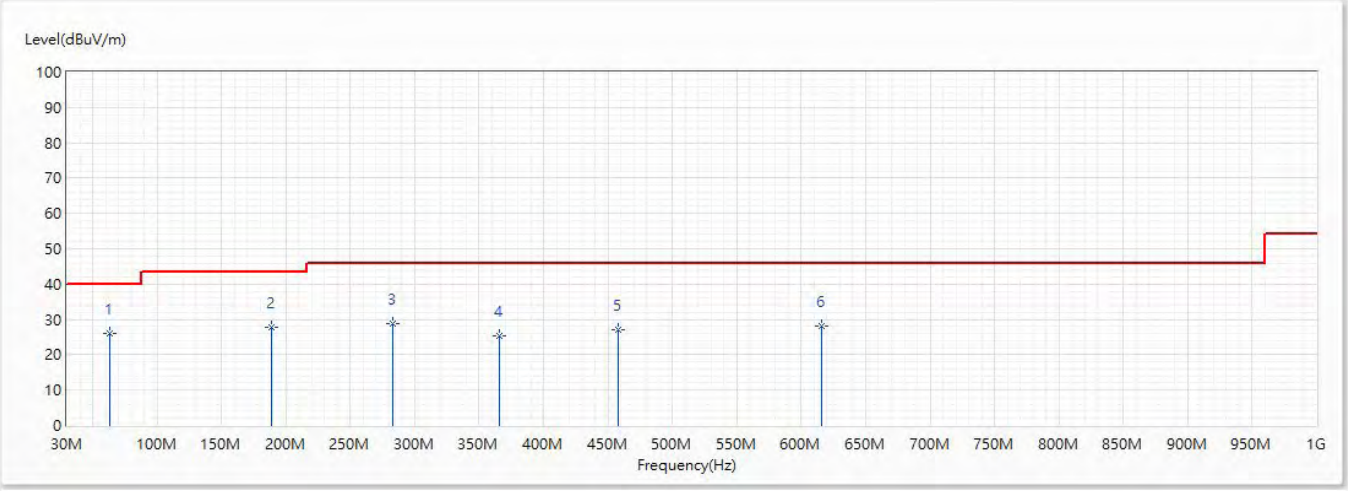


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
* 1	57.281	26.72	40.00	-13.28	54.17	-27.45	QP
2	246.553	28.70	46.00	-17.30	49.49	-20.79	QP
3	331.913	27.23	46.00	-18.77	45.77	-18.54	QP
4	439.825	27.01	46.00	-18.99	42.44	-15.43	QP
5	584.598	27.90	46.00	-18.10	41.34	-13.44	QP
6	775.566	29.33	46.00	-16.67	40.59	-11.26	QP

Note:

1. All reading levels is Quasi-Peak value.
2. “ * ”, means this data is the worst value.
3. Emission Level = Reading Level + Correct Factor.
4. The emission under 30MHz were not included is because their levels are lower than 20dB from limit.

Site :	CB2-H	Engineer :	Elwin
Model No :	USB-AC56	Test Date :	2019/10/17
Test Voltage :	DC 5V (Power by PC)	Polarity :	Horizontal
Test Mode :	Mode 1: Transmit (Dipole Antenna)		
Note :	802.11n(20M)_5785MHz_MIMO		
Environmental Condition:	Temperature ( ) : 24.6 ; Relative Humidity (%RH) : 57.3		

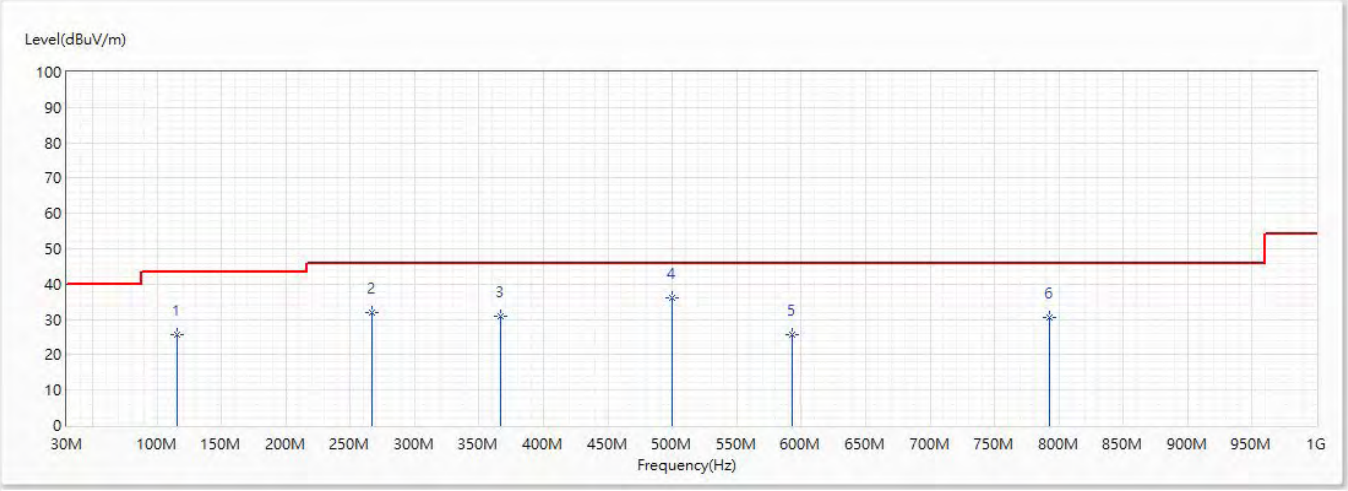


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
* 1	63.223	25.94	40.00	-14.06	54.04	-28.10	QP
2	188.959	27.87	43.50	-15.63	51.72	-23.85	QP
3	283.291	28.89	46.00	-17.11	48.85	-19.96	QP
4	365.499	25.21	46.00	-20.79	42.60	-17.39	QP
5	457.649	27.21	46.00	-18.79	42.30	-15.09	QP
6	616.001	27.96	46.00	-18.04	41.03	-13.07	QP

Note:

1. All reading levels is Quasi-Peak value.
2. “ * ”, means this data is the worst value.
3. Emission Level = Reading Level + Correct Factor.
4. The emission under 30MHz were not included is because their levels are lower than 20dB from limit.

Site :	CB2-H	Engineer :	Elwin
Model No :	USB-AC56	Test Date :	2019/10/17
Test Voltage :	DC 5V (Power by PC)	Polarity :	Vertical
Test Mode :	Mode 1: Transmit (Dipole Antenna)		
Note :	802.11n(20M)_5785MHz_MIMO		
Environmental Condition:	Temperature ( ) : 24.6 ; Relative Humidity (%RH) : 57.3		

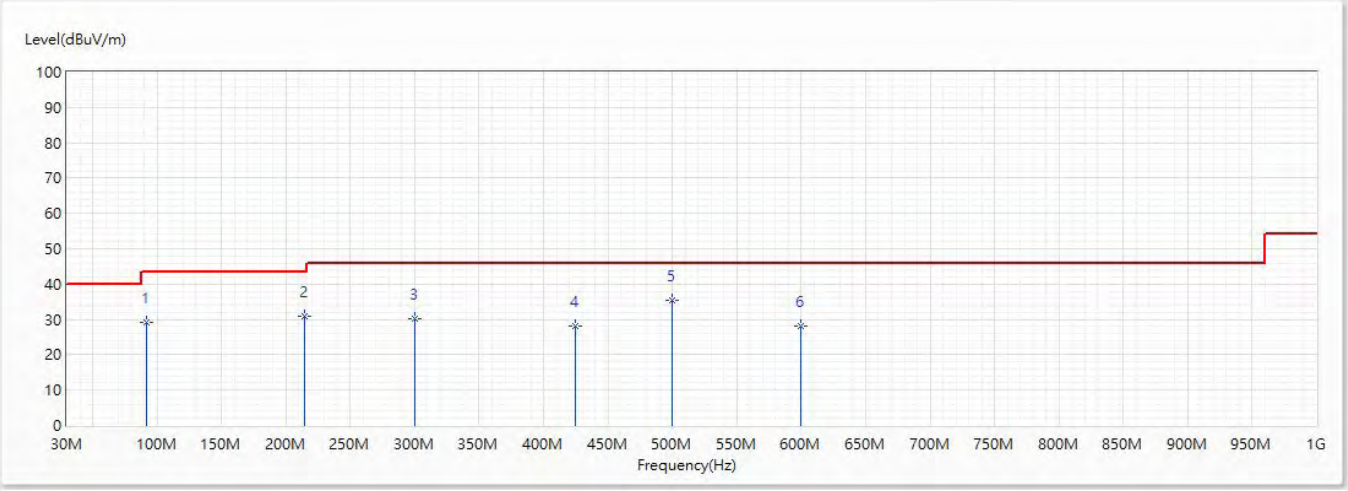


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	115.724	25.71	43.50	-17.79	47.42	-21.71	QP
2	266.68	31.93	46.00	-14.07	52.21	-20.28	QP
3	366.469	31.04	46.00	-14.96	48.40	-17.36	QP
* 4	499.965	35.97	46.00	-10.03	50.33	-14.36	QP
5	592.843	25.85	46.00	-20.15	39.19	-13.34	QP
6	793.148	30.44	46.00	-15.56	41.49	-11.05	QP

Note:

1. All reading levels is Quasi-Peak value.
2. “ * ”, means this data is the worst value.
3. Emission Level = Reading Level + Correct Factor.
4. The emission under 30MHz were not included is because their levels are lower than 20dB from limit.

Site :	CB2-H	Engineer :	Elwin
Model No :	USB-AC56	Test Date :	2019/10/17
Test Voltage :	DC 5V (Power by PC)	Polarity :	Horizontal
Test Mode :	Mode 1: Transmit (Dipole Antenna)		
Note :	802.11n(40M)_5755MHz_MIMO		
Environmental Condition:	Temperature ( ) : 24.6 ; Relative Humidity (%RH) : 57.3		

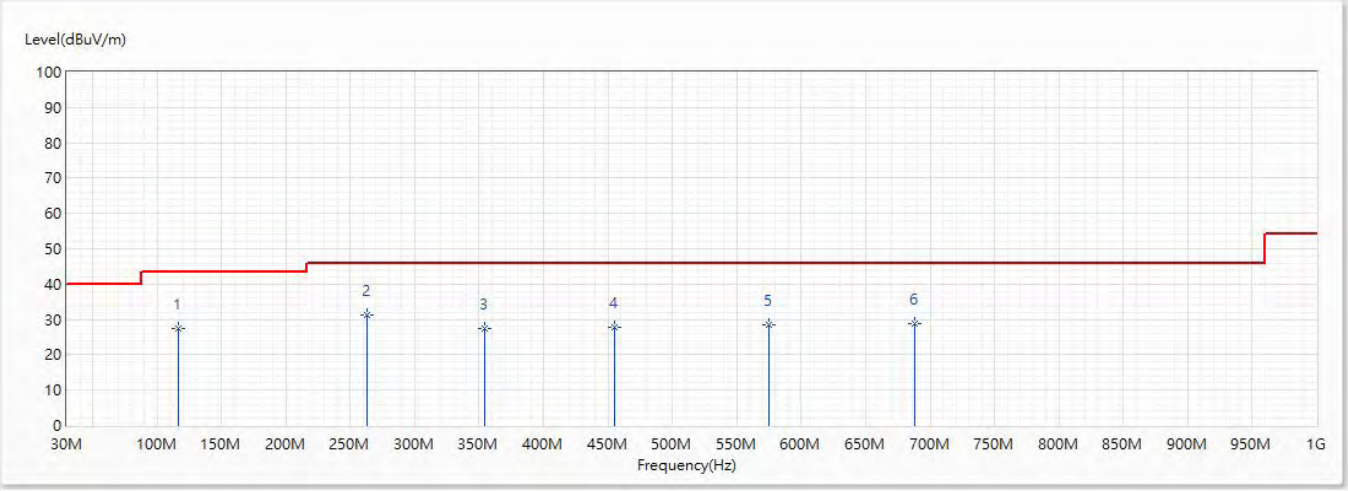


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	92.08	29.00	43.50	-14.50	54.15	-25.15	QP
2	214.058	30.98	43.50	-12.52	53.69	-22.71	QP
3	300.024	30.36	46.00	-15.64	49.99	-19.63	QP
4	424.184	27.97	46.00	-18.03	43.73	-15.76	QP
* 5	499.965	35.33	46.00	-10.67	49.69	-14.36	QP
6	599.996	28.29	46.00	-17.71	41.56	-13.27	QP

Note:

1. All reading levels is Quasi-Peak value.
2. “ * ”, means this data is the worst value.
3. Emission Level = Reading Level + Correct Factor.
4. The emission under 30MHz were not included is because their levels are lower than 20dB from limit.

Site :	CB2-H	Engineer :	Elwin
Model No :	USB-AC56	Test Date :	2019/10/17
Test Voltage :	DC 5V (Power by PC)	Polarity :	Vertical
Test Mode :	Mode 1: Transmit (Dipole Antenna)		
Note :	802.11n(40M)_5755MHz_MIMO		
Environmental Condition:	Temperature ( ) : 24.6 ; Relative Humidity (%RH) : 57.3		

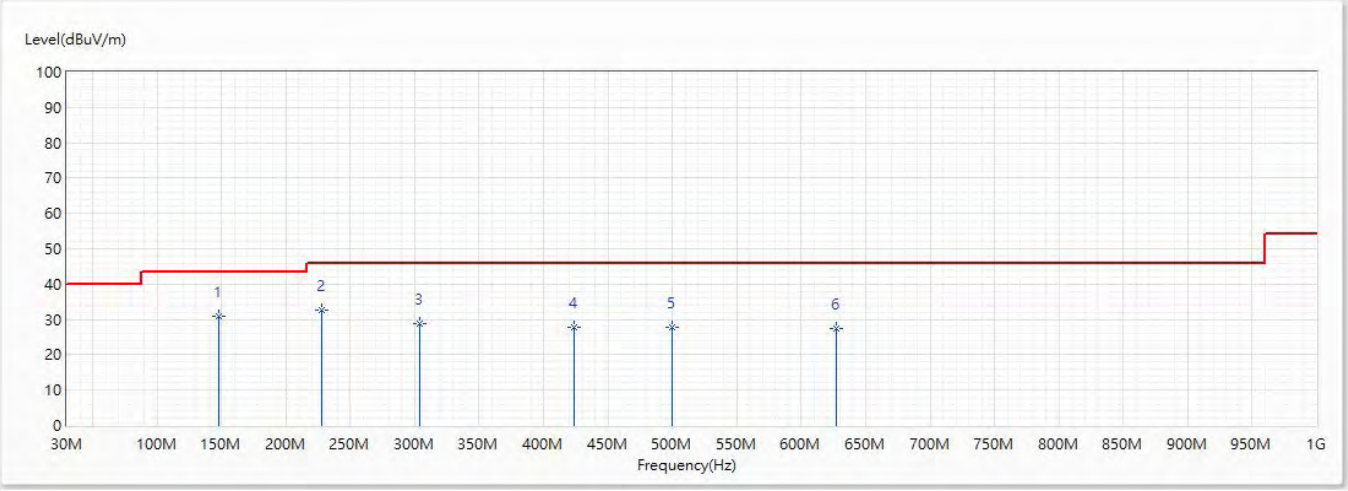


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	116.088	27.41	43.50	-16.09	49.08	-21.67	QP
* 2	262.8	31.18	46.00	-14.82	51.53	-20.35	QP
3	353.859	27.54	46.00	-18.46	45.31	-17.77	QP
4	455.345	27.64	46.00	-18.36	42.78	-15.14	QP
5	574.655	28.50	46.00	-17.50	42.05	-13.55	QP
6	687.903	28.75	46.00	-17.25	41.08	-12.33	QP

Note:

1. All reading levels is Quasi-Peak value.
2. “ * ”, means this data is the worst value.
3. Emission Level = Reading Level + Correct Factor.
4. The emission under 30MHz were not included is because their levels are lower than 20dB from limit.

Site :	CB2-H	Engineer :	Elwin
Model No :	USB-AC56	Test Date :	2019/10/17
Test Voltage :	DC 5V (Power by PC)	Polarity :	Horizontal
Test Mode :	Mode 1: Transmit (Dipole Antenna)		
Note :	802.11ac(80M)_5775MHz_MIMO		
Environmental Condition:	Temperature ( ) : 24.6 ; Relative Humidity (%RH) : 57.3		

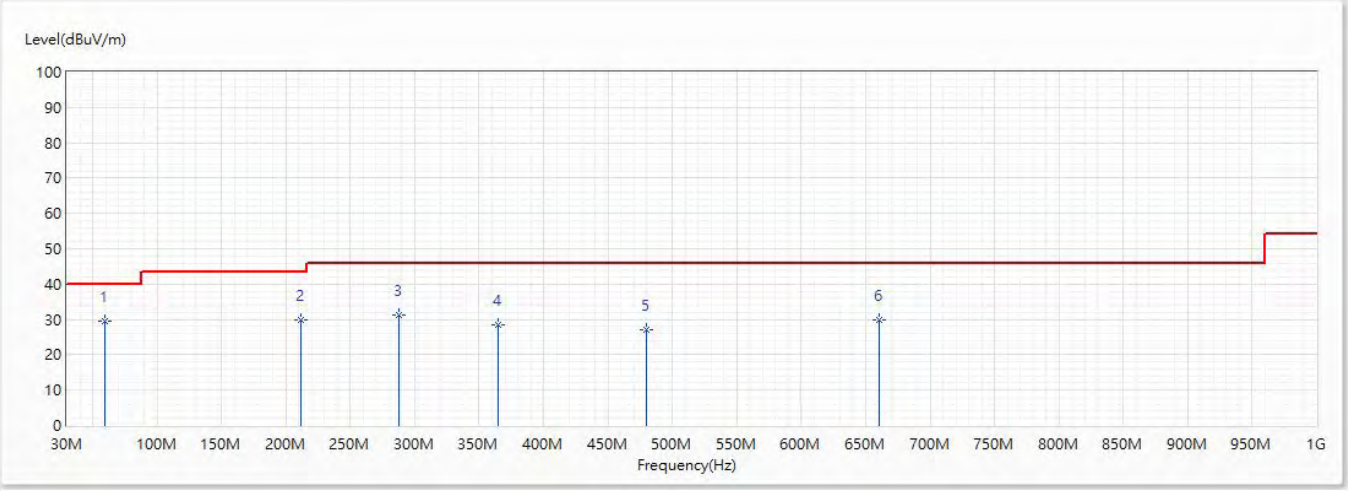


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
* 1	148.34	30.91	43.50	-12.59	53.11	-22.20	QP
2	227.638	32.51	46.00	-13.49	54.41	-21.90	QP
3	303.904	28.87	46.00	-17.13	48.38	-19.51	QP
4	423.578	27.62	46.00	-18.38	43.39	-15.77	QP
5	499.844	27.92	46.00	-18.08	42.28	-14.36	QP
6	627.52	27.58	46.00	-18.42	40.53	-12.95	QP

Note:

1. All reading levels is Quasi-Peak value.
2. “ * ”, means this data is the worst value.
3. Emission Level = Reading Level + Correct Factor.
4. The emission under 30MHz were not included is because their levels are lower than 20dB from limit.

Site :	CB2-H	Engineer :	Elwin
Model No :	USB-AC56	Test Date :	2019/10/17
Test Voltage :	DC 5V (Power by PC)	Polarity :	Vertical
Test Mode :	Mode 1: Transmit (Dipole Antenna)		
Note :	802.11ac(80M)_5775MHz_MIMO		
Environmental Condition:	Temperature ( ) : 24.6 ; Relative Humidity (%RH) : 57.3		

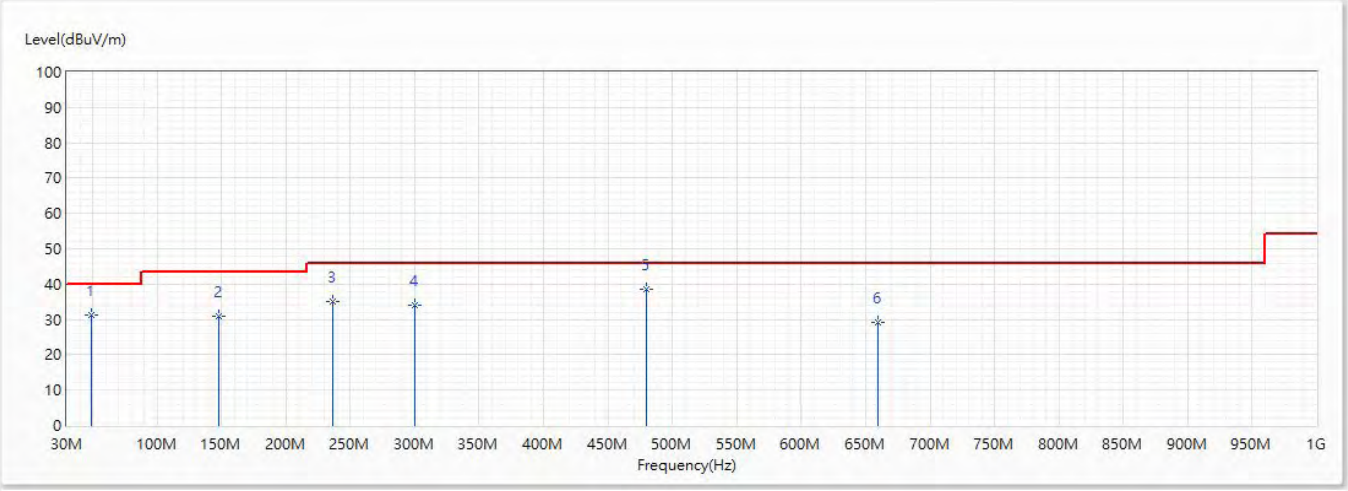


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
* 1	59.828	29.66	40.00	-10.34	57.60	-27.94	QP
2	211.269	29.87	43.50	-13.63	52.73	-22.86	QP
3	287.293	31.38	46.00	-14.62	51.27	-19.89	QP
4	365.014	28.60	46.00	-17.40	46.00	-17.40	QP
5	479.838	27.10	46.00	-18.90	41.81	-14.71	QP
6	660.743	29.76	46.00	-16.24	42.35	-12.59	QP

Note:

1. All reading levels is Quasi-Peak value.
2. “ * ”, means this data is the worst value.
3. Emission Level = Reading Level + Correct Factor.
4. The emission under 30MHz were not included is because their levels are lower than 20dB from limit.

Site :	CB2-H	Engineer :	Elwin
Model No :	USB-AC56	Test Date :	2019/10/17
Test Voltage :	DC 5V (Power by PC)	Polarity :	Horizontal
Test Mode :	Mode 2: Transmit (PIFA Antenna)		
Note :	802.11a_5785MHz_MIMO		
Environmental Condition:	Temperature ( ) : 24.6 ; Relative Humidity (%RH) : 57.3		

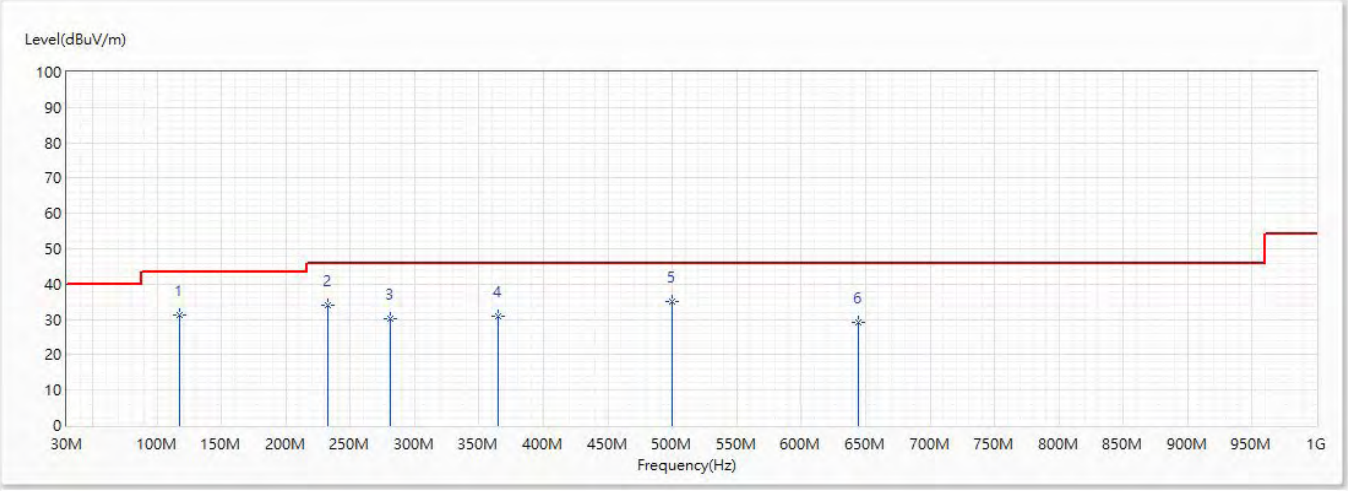


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	48.915	31.26	40.00	-8.74	56.16	-24.90	QP
2	148.34	30.91	43.50	-12.59	53.11	-22.20	QP
3	236.004	35.20	46.00	-10.80	56.61	-21.41	QP
4	299.903	33.93	46.00	-12.07	53.57	-19.64	QP
* 5	479.959	38.53	46.00	-7.47	53.24	-14.71	QP
6	659.166	29.32	46.00	-16.68	41.91	-12.59	QP

Note:

1. All reading levels is Quasi-Peak value.
2. “ * ”, means this data is the worst value.
3. Emission Level = Reading Level + Correct Factor.
4. The emission under 30MHz were not included is because their levels are lower than 20dB from limit.

Site :	CB2-H	Engineer :	Elwin
Model No :	USB-AC56	Test Date :	2019/10/17
Test Voltage :	DC 5V (Power by PC)	Polarity :	Vertical
Test Mode :	Mode 2: Transmit (PIFA Antenna)		
Note :	802.11a_5785MHz_MIMO		
Environmental Condition:	Temperature ( ) : 24.6 ; Relative Humidity (%RH) : 57.3		

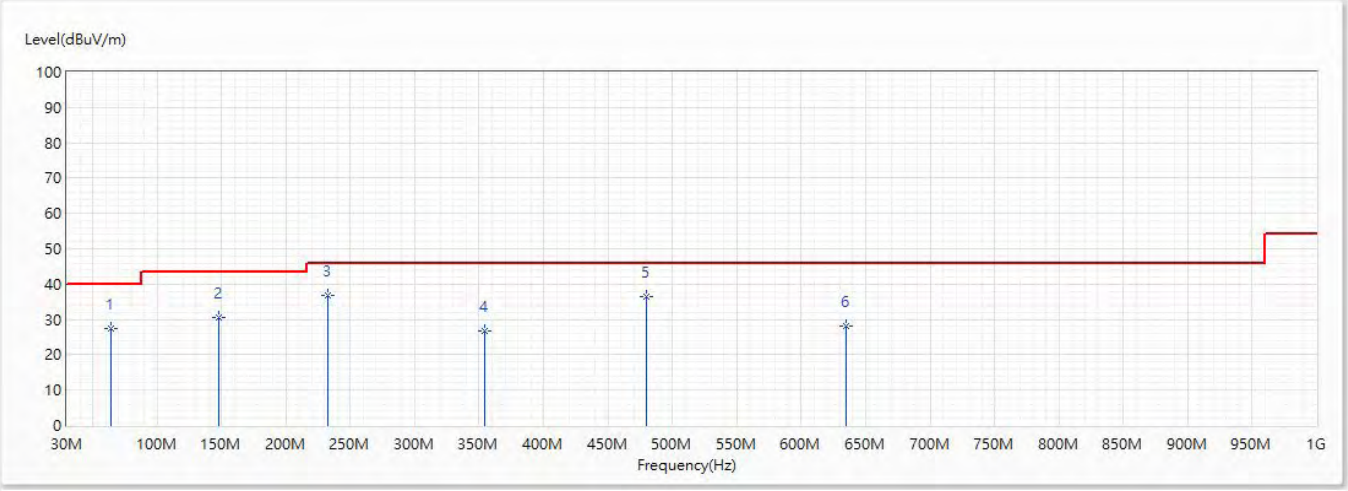


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	117.3	31.18	43.50	-12.32	52.74	-21.56	QP
2	232.73	33.97	46.00	-12.03	55.58	-21.61	QP
3	280.745	30.35	46.00	-15.65	50.36	-20.01	QP
4	365.135	31.04	46.00	-14.96	48.44	-17.40	QP
* 5	500.086	35.16	46.00	-10.84	49.52	-14.36	QP
6	644.616	29.15	46.00	-16.85	41.90	-12.75	QP

Note:

1. All reading levels is Quasi-Peak value.
2. “ * ”, means this data is the worst value.
3. Emission Level = Reading Level + Correct Factor.
4. The emission under 30MHz were not included is because their levels are lower than 20dB from limit.

Site :	CB2-H	Engineer :	Elwin
Model No :	USB-AC56	Test Date :	2019/10/17
Test Voltage :	DC 5V (Power by PC)	Polarity :	Horizontal
Test Mode :	Mode 2: Transmit (PIFA Antenna)		
Note :	802.11n(20M)_5785MHz_MIMO		
Environmental Condition:	Temperature ( ) : 24.6 ; Relative Humidity (%RH) : 57.3		

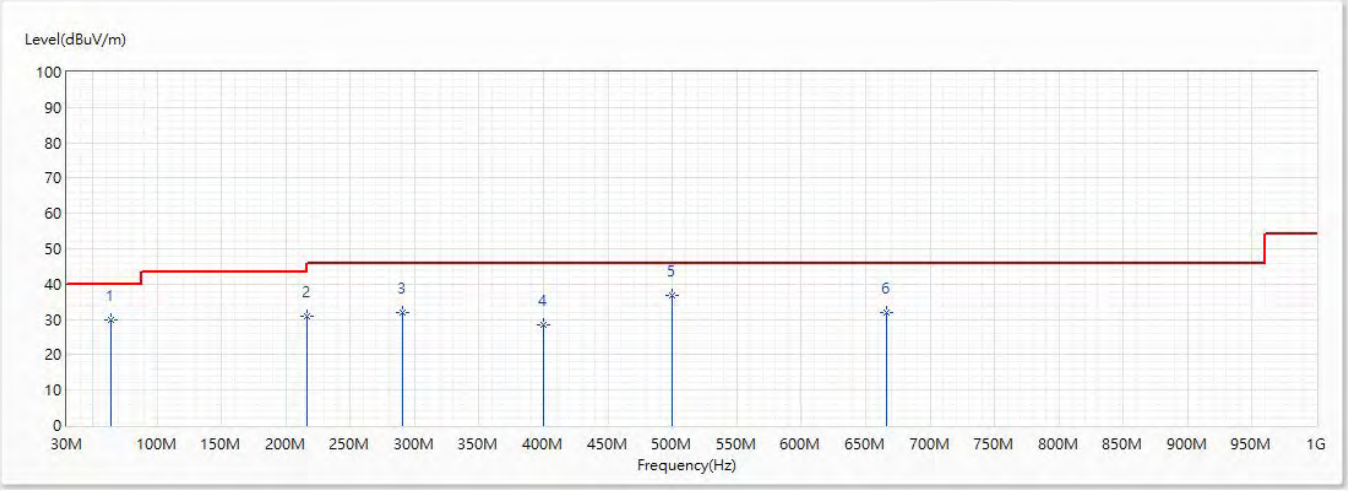


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	64.435	27.59	40.00	-12.41	55.73	-28.14	QP
2	148.34	30.42	43.50	-13.08	52.62	-22.20	QP
* 3	232.366	36.70	46.00	-9.30	58.33	-21.63	QP
4	353.859	26.88	46.00	-19.12	44.65	-17.77	QP
5	479.959	36.35	46.00	-9.65	51.06	-14.71	QP
6	634.795	28.12	46.00	-17.88	40.98	-12.86	QP

Note:

1. All reading levels is Quasi-Peak value.
2. “ * ”, means this data is the worst value.
3. Emission Level = Reading Level + Correct Factor.
4. The emission under 30MHz were not included is because their levels are lower than 20dB from limit.

Site :	CB2-H	Engineer :	Elwin
Model No :	USB-AC56	Test Date :	2019/10/17
Test Voltage :	DC 5V (Power by PC)	Polarity :	Vertical
Test Mode :	Mode 2: Transmit (PIFA Antenna)		
Note :	802.11n(20M)_5785MHz_MIMO		
Environmental Condition:	Temperature ( ) : 24.6 ; Relative Humidity (%RH) : 57.3		

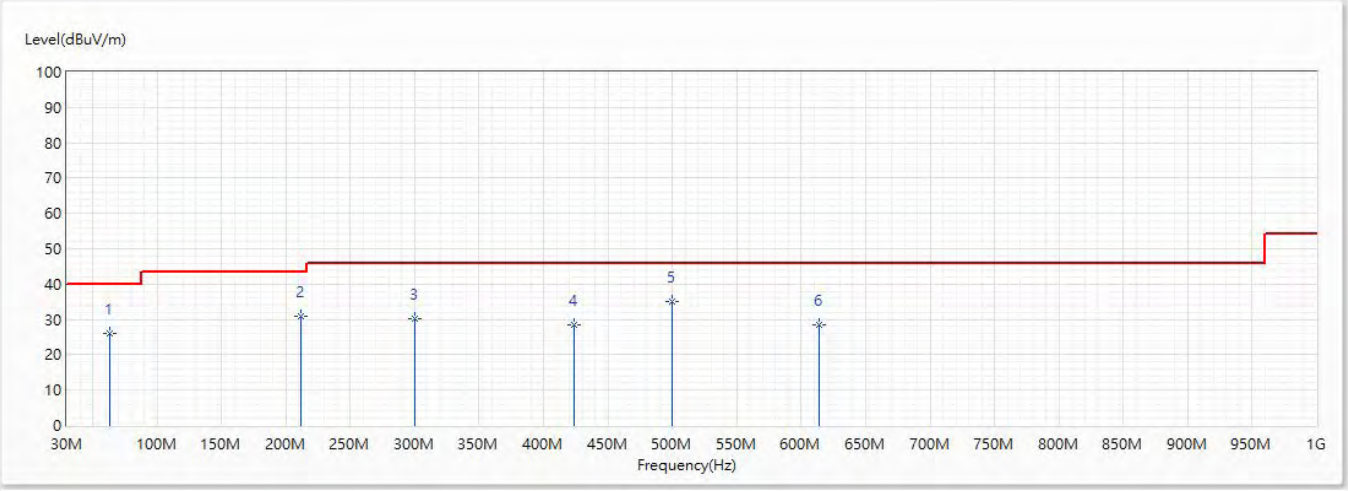


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	64.678	29.94	40.00	-10.06	58.08	-28.14	QP
2	215.998	30.96	43.50	-12.54	53.55	-22.59	QP
3	290.445	32.09	46.00	-13.91	51.92	-19.83	QP
4	399.934	28.62	46.00	-17.38	44.89	-16.27	QP
* 5	499.965	36.93	46.00	-9.07	51.29	-14.36	QP
6	666.441	32.08	46.00	-13.92	44.60	-12.52	QP

Note:

1. All reading levels is Quasi-Peak value.
2. “ * ”, means this data is the worst value.
3. Emission Level = Reading Level + Correct Factor.
4. The emission under 30MHz were not included is because their levels are lower than 20dB from limit.

Site :	CB2-H	Engineer :	Elwin
Model No :	USB-AC56	Test Date :	2019/10/17
Test Voltage :	DC 5V (Power by PC)	Polarity :	Horizontal
Test Mode :	Mode 2: Transmit (PIFA Antenna)		
Note :	802.11n(40M)_5755MHz_MIMO		
Environmental Condition:	Temperature ( ) : 24.6 ; Relative Humidity (%RH) : 57.3		

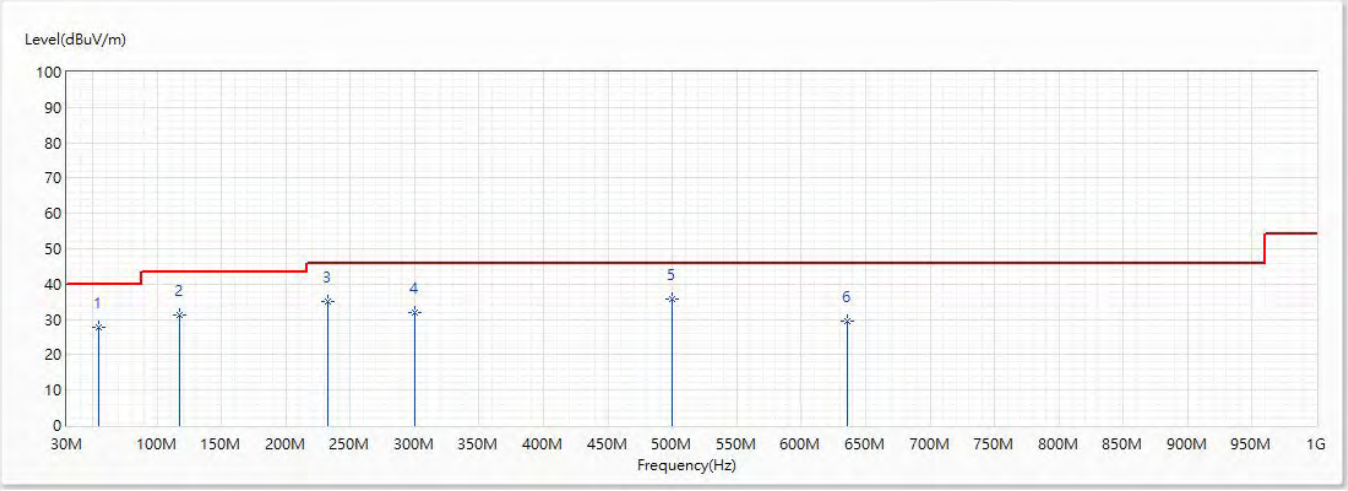


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	63.344	26.05	40.00	-13.95	54.16	-28.11	QP
2	211.875	31.00	43.50	-12.50	53.83	-22.83	QP
3	299.781	30.29	46.00	-15.71	49.93	-19.64	QP
4	424.063	28.58	46.00	-17.42	44.34	-15.76	QP
* 5	500.086	35.22	46.00	-10.78	49.58	-14.36	QP
6	614.183	28.32	46.00	-17.68	41.42	-13.10	QP

Note:

1. All reading levels is Quasi-Peak value.
2. “ * ”, means this data is the worst value.
3. Emission Level = Reading Level + Correct Factor.
4. The emission under 30MHz were not included is because their levels are lower than 20dB from limit.

Site :	CB2-H	Engineer :	Elwin
Model No :	USB-AC56	Test Date :	2019/10/17
Test Voltage :	DC 5V (Power by PC)	Polarity :	Vertical
Test Mode :	Mode 2: Transmit (PIFA Antenna)		
Note :	802.11n(40M)_5755MHz_MIMO		
Environmental Condition:	Temperature ( ) : 24.6 ; Relative Humidity (%RH) : 57.3		



No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	54.25	27.61	40.00	-12.39	54.28	-26.67	QP
2	117.3	31.18	43.50	-12.32	52.74	-21.56	QP
3	232.366	35.21	46.00	-10.79	56.84	-21.63	QP
4	300.024	31.81	46.00	-14.19	51.44	-19.63	QP
* 5	500.086	35.80	46.00	-10.20	50.16	-14.36	QP
6	636.129	29.64	46.00	-16.36	42.48	-12.84	QP

Note:

1. All reading levels is Quasi-Peak value.
2. “ * ”, means this data is the worst value.
3. Emission Level = Reading Level + Correct Factor.
4. The emission under 30MHz were not included is because their levels are lower than 20dB from limit.

Site :	CB2-H	Engineer :	Elwin
Model No :	USB-AC56	Test Date :	2019/10/17
Test Voltage :	DC 5V (Power by PC)	Polarity :	Horizontal
Test Mode :	Mode 2: Transmit (PIFA Antenna)		
Note :	802.11ac(80M)_5775MHz_MIMO		
Environmental Condition:	Temperature ( ) : 24.6 ; Relative Humidity (%RH) : 57.3		

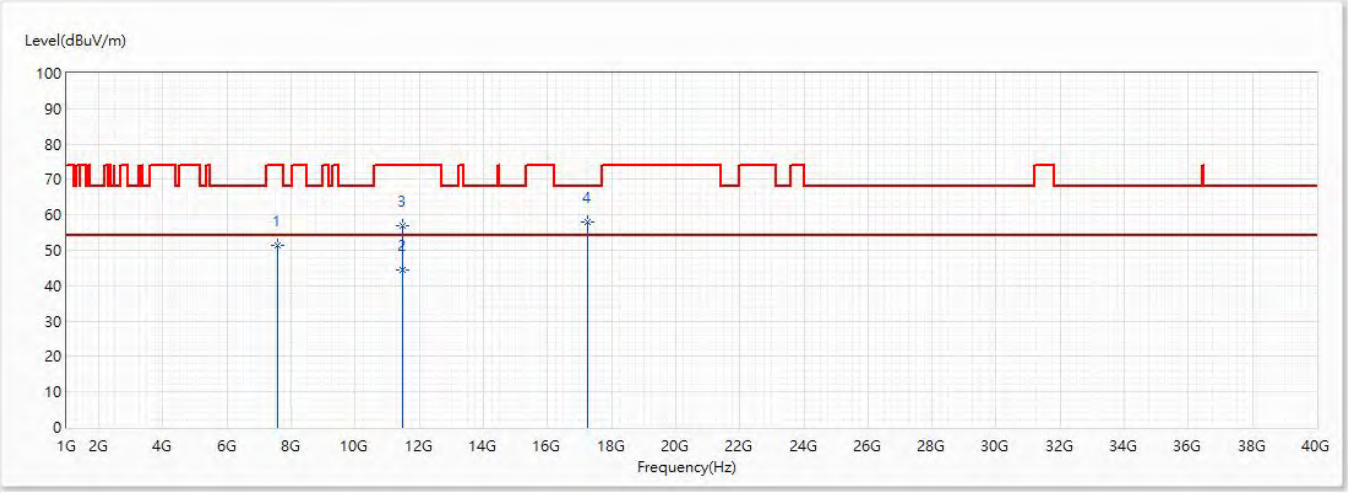
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	45.278	30.38	40.00	-9.62	52.90	-22.52	QP
2	162.769	30.97	43.50	-12.53	54.06	-23.09	QP
3	278.926	29.90	46.00	-16.10	49.94	-20.04	QP
4	366.59	27.77	46.00	-18.23	45.13	-17.36	QP
* 5	479.959	38.57	46.00	-7.43	53.28	-14.71	QP
6	645.223	29.03	46.00	-16.97	41.76	-12.73	QP

Note:

1. All reading levels is Quasi-Peak value.
2. “ * ”, means this data is the worst value.
3. Emission Level = Reading Level + Correct Factor.
4. The emission under 30MHz were not included is because their levels are lower than 20dB from limit.

Harmonic & Spurious:

Site :	CB2-H	Engineer :	Scott
Model No :	USB-AC56	Test Date :	2019/10/16
Test Voltage :	DC 5V (Power by PC)	Polarity :	Horizontal
Test Mode :	Mode 1: Transmit (Dipole Antenna)		
Note :	802.11a_5745MHz_SISO		
Environmental Condition:	Temperature ( ) : 24.6 ; Relative Humidity (%RH) : 57.3		

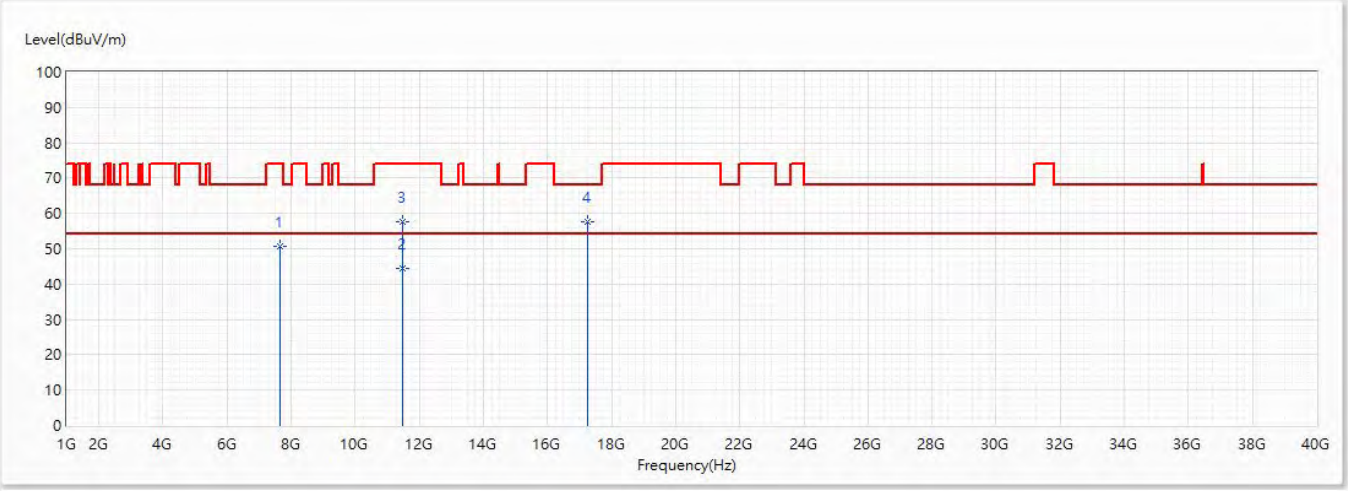


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	7574	51.35	74.00	-22.65	50.47	0.88	PK
* 2	11490	44.58	54.00	-9.42	36.15	8.43	AV
3	11490	57.11	74.00	-16.89	48.68	8.43	PK
4	17235	57.90	68.20	-10.30	45.50	12.40	PK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst value.
3. Emission Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The Emission above 18GHz were not included is because their levels are lower than 20dBm form limit.

Site :	CB2-H	Engineer :	Scott
Model No :	USB-AC56	Test Date :	2019/10/16
Test Voltage :	DC 5V (Power by PC)	Polarity :	Vertical
Test Mode :	Mode 1: Transmit (Dipole Antenna)		
Note :	802.11a_5745MHz_SISO		
Environmental Condition:	Temperature ( ) : 24.6 ; Relative Humidity (%RH) : 57.3		



No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	7661	50.58	74.00	-23.42	49.60	0.98	PK
* 2	11490	44.32	54.00	-9.68	35.89	8.43	AV
3	11490	57.80	74.00	-16.20	49.37	8.43	PK
4	17235	57.67	68.20	-10.53	45.27	12.40	PK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst value.
3. Emission Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The Emission above 18GHz were not included is because their levels are lower than 20dBm form limit.

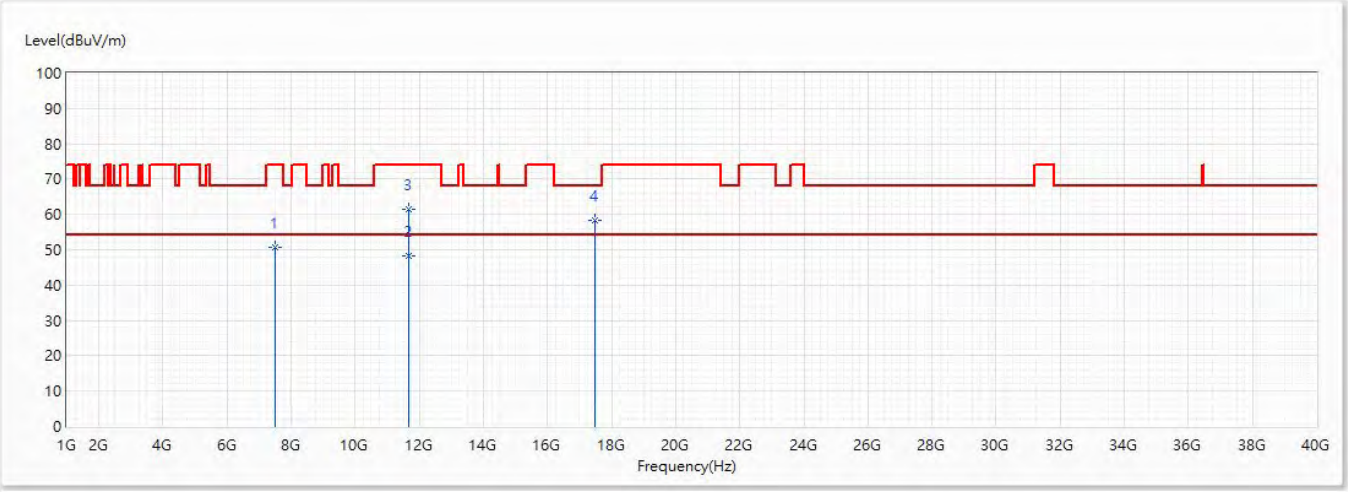
Site :	CB2-H	Engineer :	Scott
Model No :	USB-AC56	Test Date :	2019/10/16
Test Voltage :	DC 5V (Power by PC)	Polarity :	Horizontal
Test Mode :	Mode 1: Transmit (Dipole Antenna)		
Note :	802.11a_5785MHz_SISO		
Environmental Condition:	Temperature ( ) : 24.6 ; Relative Humidity (%RH) : 57.3		

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	7540	43.91	54.00	-10.09	43.07	0.84	AV
2	7540	57.64	74.00	-16.36	56.80	0.84	PK
3	11570	43.29	54.00	-10.71	34.75	8.54	AV
4	11570	56.87	74.00	-17.13	48.33	8.54	PK
* 5	17355	58.67	68.20	-9.53	45.86	12.81	PK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst value.
3. Emission Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The Emission above 18GHz were not included is because their levels are lower than 20dBm form limit.

Site :	CB2-H	Engineer :	Scott
Model No :	USB-AC56	Test Date :	2019/10/16
Test Voltage :	DC 5V (Power by PC)	Polarity :	Horizontal
Test Mode :	Mode 1: Transmit (Dipole Antenna)		
Note :	802.11a_5825MHz_SISO		
Environmental Condition:	Temperature ( ) : 24.6 ; Relative Humidity (%RH) : 57.3		



No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	7516	50.79	74.00	-23.21	49.98	0.81	PK
* 2	11650	48.21	54.00	-5.79	39.55	8.66	AV
3	11650	61.33	74.00	-12.67	52.67	8.66	PK
4	17475	58.27	68.20	-9.93	45.04	13.23	PK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst value.
3. Emission Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The Emission above 18GHz were not included is because their levels are lower than 20dBm form limit.

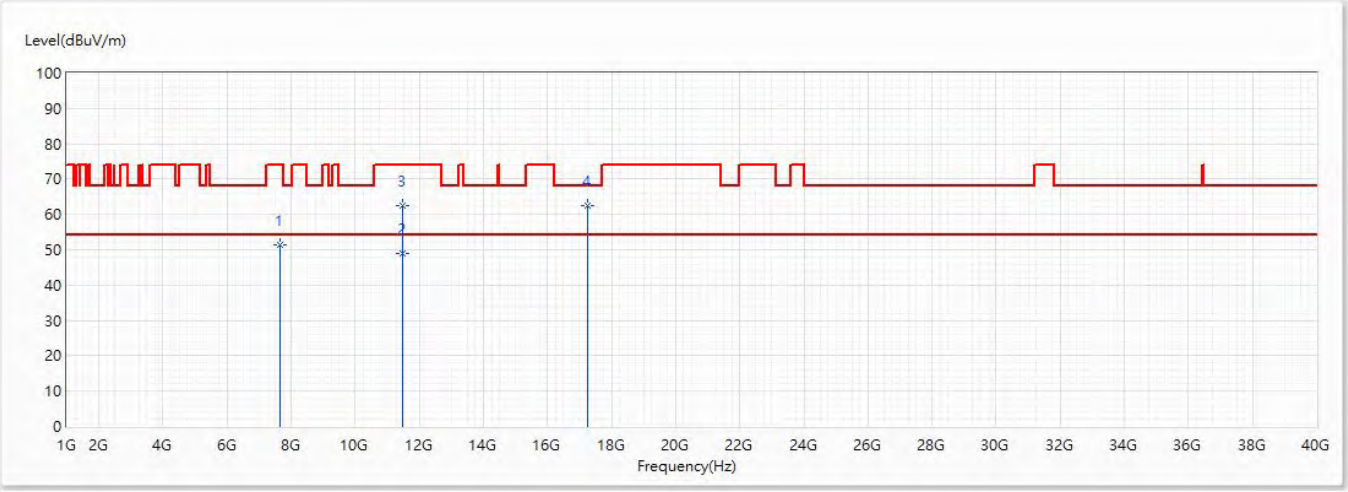
Site :	CB2-H	Engineer :	Scott
Model No :	USB-AC56	Test Date :	2019/10/16
Test Voltage :	DC 5V (Power by PC)	Polarity :	Vertical
Test Mode :	Mode 1: Transmit (Dipole Antenna)		
Note :	802.11a_5825MHz_SISO		
Environmental Condition:	Temperature ( ) : 24.6 ; Relative Humidity (%RH) : 57.3		

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	7496	44.33	54.00	-9.67	43.55	0.78	AV
2	7496	57.84	74.00	-16.16	57.06	0.78	PK
* 3	11650	48.69	54.00	-5.31	40.03	8.66	AV
4	11650	59.09	74.00	-14.91	50.43	8.66	PK
5	17475	57.64	68.20	-10.56	44.41	13.23	PK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst value.
3. Emission Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The Emission above 18GHz were not included is because their levels are lower than 20dBm form limit.

Site :	CB2-H	Engineer :	Lion
Model No :	USB-AC56	Test Date :	2019/10/25
Test Voltage :	DC 5V (Power by PC)	Polarity :	Vertical
Test Mode :	Mode 1: Transmit (Dipole Antenna)		
Note :	802.11n(20M)_5745MHz_MIMO		
Environmental Condition:	Temperature ( ) : 24.6 ; Relative Humidity (%RH) : 57.3		

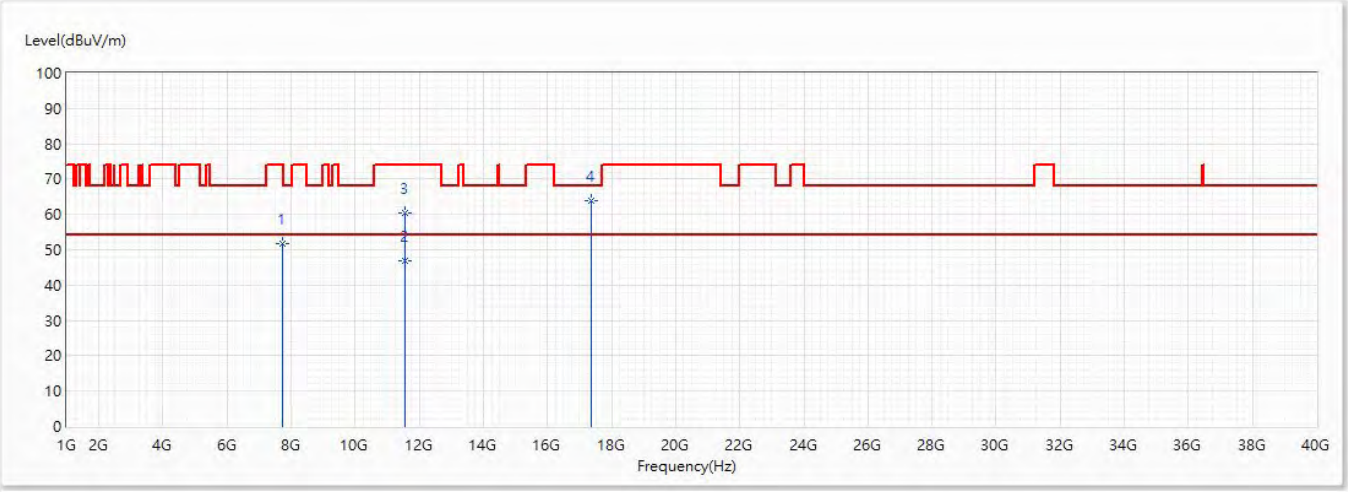


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	7660	51.56	74.00	-22.44	50.58	0.98	PK
* 2	11490	49.02	54.00	-4.98	40.59	8.43	AV
3	11490	62.56	74.00	-11.44	54.13	8.43	PK
4	17235	62.64	68.20	-5.56	50.24	12.40	PK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst value.
3. Emission Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The Emission above 18GHz were not included is because their levels are lower than 20dBm form limit.

Site :	CB2-H	Engineer :	Lion
Model No :	USB-AC56	Test Date :	2019/10/25
Test Voltage :	DC 5V (Power by PC)	Polarity :	Horizontal
Test Mode :	Mode 1: Transmit (Dipole Antenna)		
Note :	802.11n(20M)_5785MHz_MIMO		
Environmental Condition:	Temperature ( ) : 24.6 ; Relative Humidity (%RH) : 57.3		

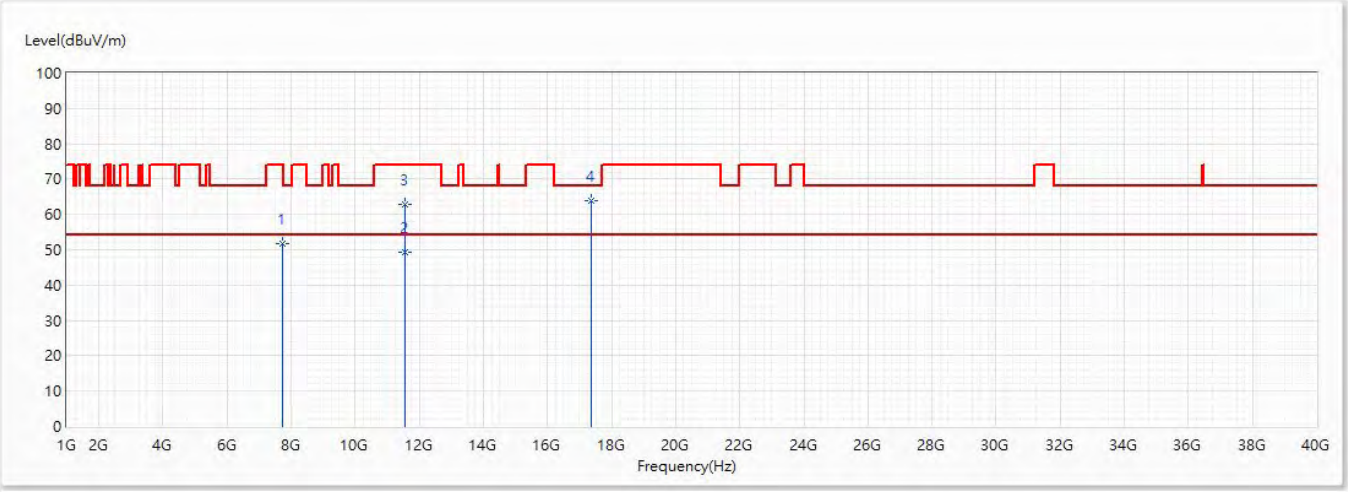


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	7713.333	51.77	74.00	-22.23	50.73	1.04	PK
2	11570	46.99	54.00	-7.01	38.45	8.54	AV
3	11570	60.33	74.00	-13.67	51.79	8.54	PK
* 4	17355	63.73	68.20	-4.47	50.92	12.81	PK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst value.
3. Emission Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The Emission above 18GHz were not included is because their levels are lower than 20dBm form limit.

Site :	CB2-H	Engineer :	Lion
Model No :	USB-AC56	Test Date :	2019/10/25
Test Voltage :	DC 5V (Power by PC)	Polarity :	Vertical
Test Mode :	Mode 1: Transmit (Dipole Antenna)		
Note :	802.11n(20M)_5785MHz_MIMO		
Environmental Condition:	Temperature ( ) : 24.6 ; Relative Humidity (%RH) : 57.3		

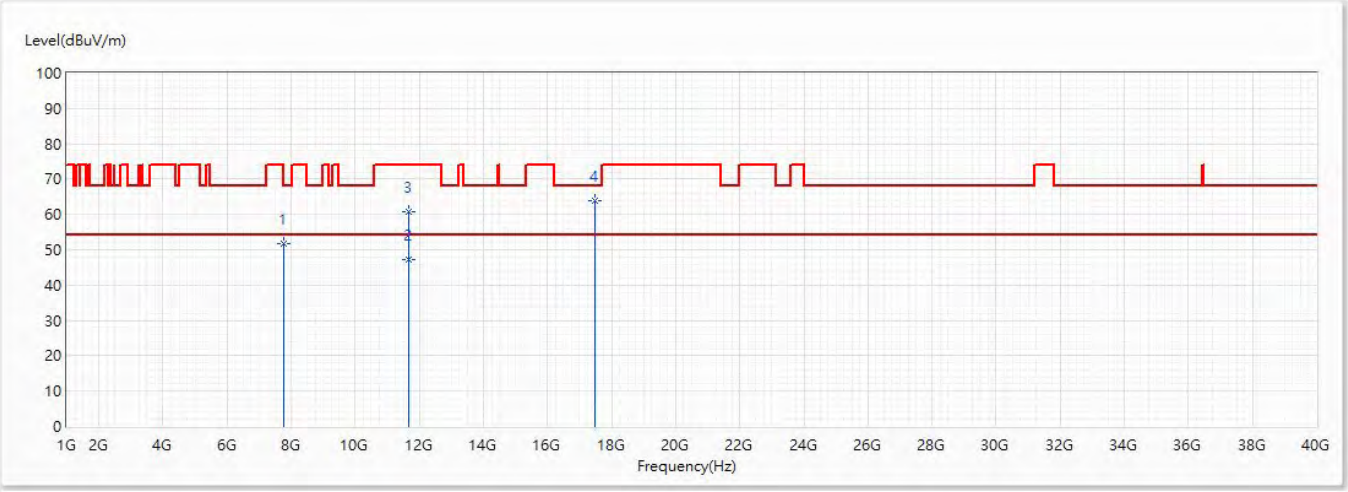


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	7713.333	51.69	74.00	-22.31	50.65	1.04	PK
2	11570	49.14	54.00	-4.86	40.60	8.54	AV
3	11570	62.68	74.00	-11.32	54.14	8.54	PK
* 4	17355	63.85	68.20	-4.35	51.04	12.81	PK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst value.
3. Emission Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The Emission above 18GHz were not included is because their levels are lower than 20dBm form limit.

Site :	CB2-H	Engineer :	Lion
Model No :	USB-AC56	Test Date :	2019/10/25
Test Voltage :	DC 5V (Power by PC)	Polarity :	Horizontal
Test Mode :	Mode 1: Transmit (Dipole Antenna)		
Note :	802.11n(20M)_5825MHz_MIMO		
Environmental Condition:	Temperature ( ) : 24.6 ; Relative Humidity (%RH) : 57.3		

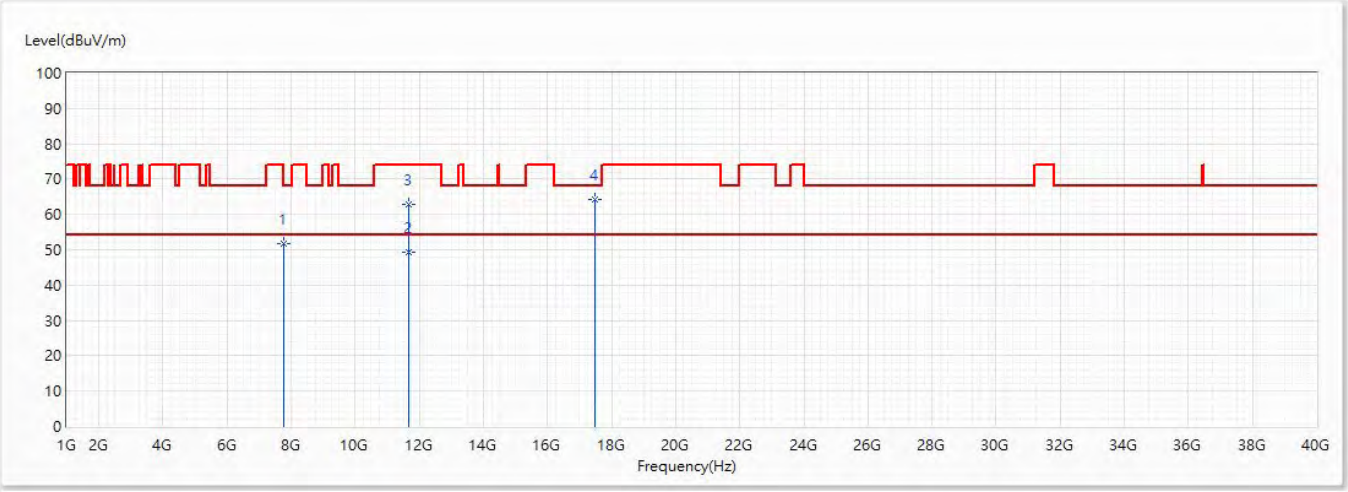


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	7766.667	51.87	68.20	-16.33	50.77	1.10	PK
2	11650	47.13	54.00	-6.87	38.47	8.66	AV
3	11650	60.77	74.00	-13.23	52.11	8.66	PK
* 4	17475	64.01	68.20	-4.19	50.78	13.23	PK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst value.
3. Emission Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The Emission above 18GHz were not included is because their levels are lower than 20dBm form limit.

Site :	CB2-H	Engineer :	Lion
Model No :	USB-AC56	Test Date :	2019/10/25
Test Voltage :	DC 5V (Power by PC)	Polarity :	Vertical
Test Mode :	Mode 1: Transmit (Dipole Antenna)		
Note :	802.11n(20M)_5825MHz_MIMO		
Environmental Condition:	Temperature ( ) : 24.6 ; Relative Humidity (%RH) : 57.3		

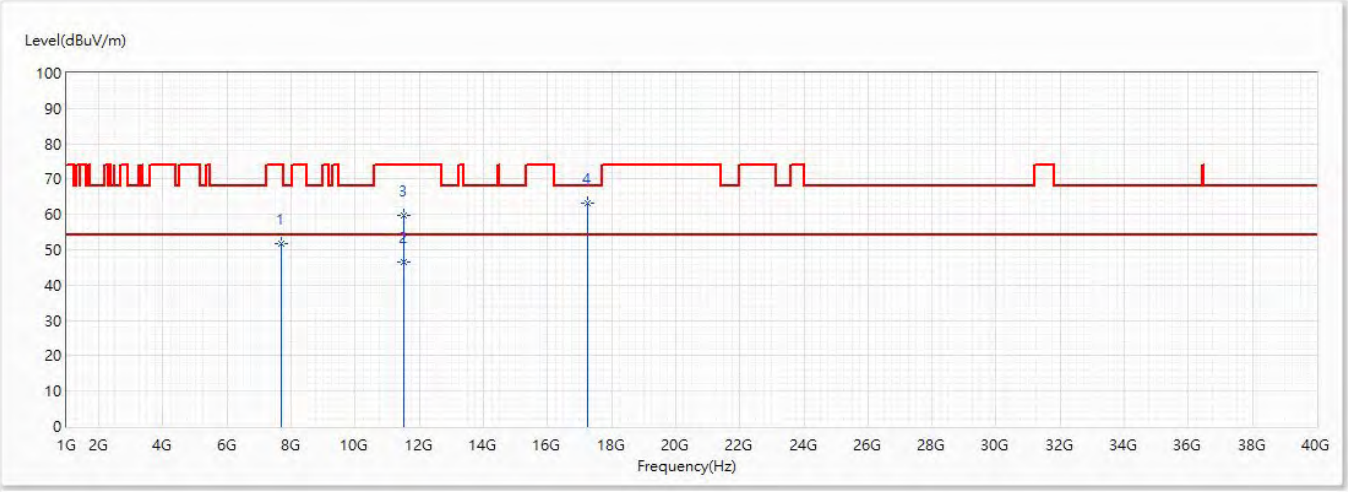


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	7766.667	51.69	68.20	-16.51	50.59	1.10	PK
2	11650	49.21	54.00	-4.79	40.55	8.66	AV
3	11650	62.87	74.00	-11.13	54.21	8.66	PK
* 4	17475	64.17	68.20	-4.03	50.94	13.23	PK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst value.
3. Emission Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The Emission above 18GHz were not included is because their levels are lower than 20dBm form limit.

Site :	CB2-H	Engineer :	Lion
Model No :	USB-AC56	Test Date :	2019/10/25
Test Voltage :	DC 5V (Power by PC)	Polarity :	Horizontal
Test Mode :	Mode 1: Transmit (Dipole Antenna)		
Note :	802.11n(40M)_5755MHz_MIMO		
Environmental Condition:	Temperature ( ) : 24.6 ; Relative Humidity (%RH) : 57.3		

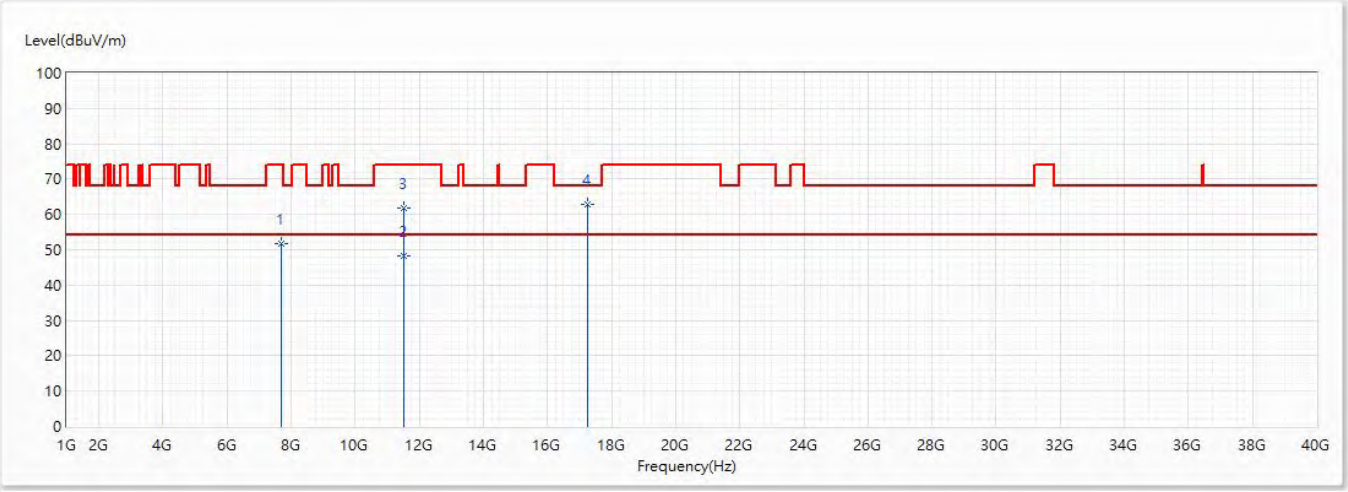


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	7673.333	51.85	74.00	-22.15	50.86	0.99	PK
2	11510	46.47	54.00	-7.53	38.02	8.45	AV
3	11510	59.58	74.00	-14.42	51.13	8.45	PK
* 4	17265	63.07	68.20	-5.13	50.58	12.49	PK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst value.
3. Emission Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The Emission above 18GHz were not included is because their levels are lower than 20dBm form limit.

Site :	CB2-H	Engineer :	Lion
Model No :	USB-AC56	Test Date :	2019/10/25
Test Voltage :	DC 5V (Power by PC)	Polarity :	Vertical
Test Mode :	Mode 1: Transmit (Dipole Antenna)		
Note :	802.11n(40M)_5755MHz_MIMO		
Environmental Condition:	Temperature ( ) : 24.6 ; Relative Humidity (%RH) : 57.3		

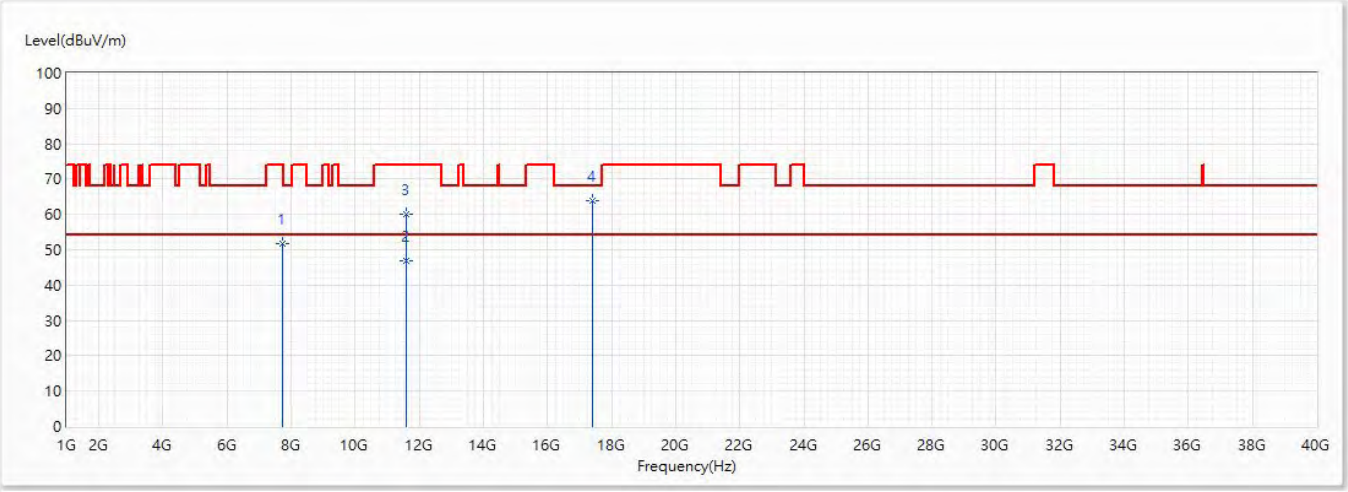


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	7673.333	51.71	74.00	-22.29	50.72	0.99	PK
2	11510	48.17	54.00	-5.83	39.72	8.45	AV
3	11510	61.81	74.00	-12.19	53.36	8.45	PK
* 4	17265	62.81	68.20	-5.39	50.32	12.49	PK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst value.
3. Emission Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The Emission above 18GHz were not included is because their levels are lower than 20dBm form limit.

Site :	CB2-H	Engineer :	Lion
Model No :	USB-AC56	Test Date :	2019/10/25
Test Voltage :	DC 5V (Power by PC)	Polarity :	Horizontal
Test Mode :	Mode 1: Transmit (Dipole Antenna)		
Note :	802.11n(40M)_5795MHz_MIMO		
Environmental Condition:	Temperature ( ) : 24.6 ; Relative Humidity (%RH) : 57.3		

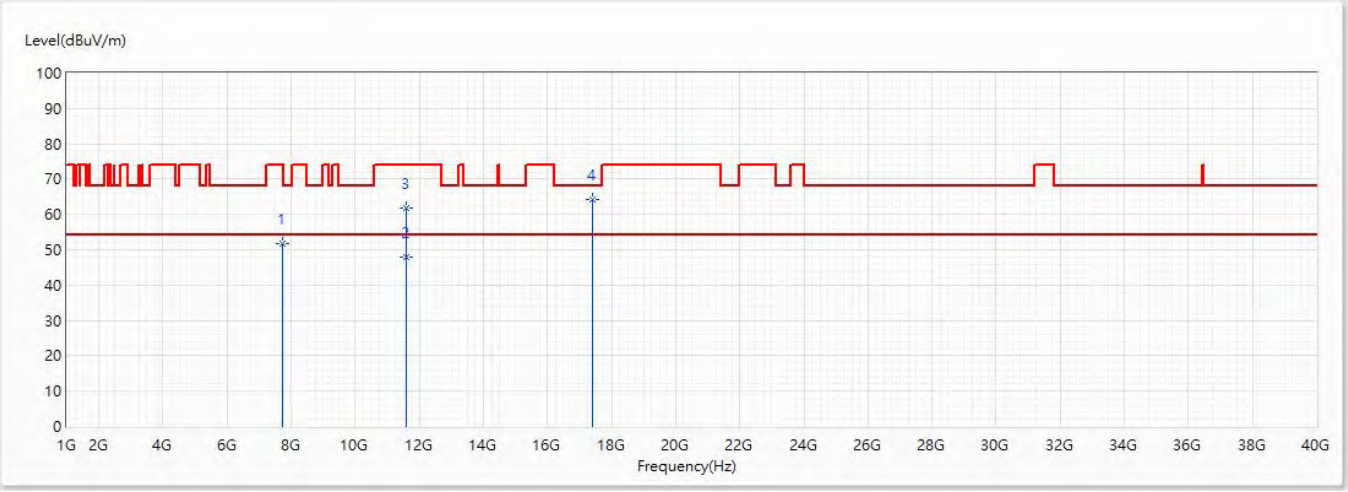


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	7726.667	51.68	74.00	-22.32	50.63	1.05	PK
2	11590	46.72	54.00	-7.28	38.15	8.57	AV
3	11590	60.19	74.00	-13.81	51.62	8.57	PK
* 4	17385	64.01	68.20	-4.19	51.09	12.92	PK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst value.
3. Emission Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The Emission above 18GHz were not included is because their levels are lower than 20dBm form limit.

Site :	CB2-H	Engineer :	Lion
Model No :	USB-AC56	Test Date :	2019/10/25
Test Voltage :	DC 5V (Power by PC)	Polarity :	Vertical
Test Mode :	Mode 1: Transmit (Dipole Antenna)		
Note :	802.11n(40M)_5795MHz_MIMO		
Environmental Condition:	Temperature ( ) : 24.6 ; Relative Humidity (%RH) : 57.3		

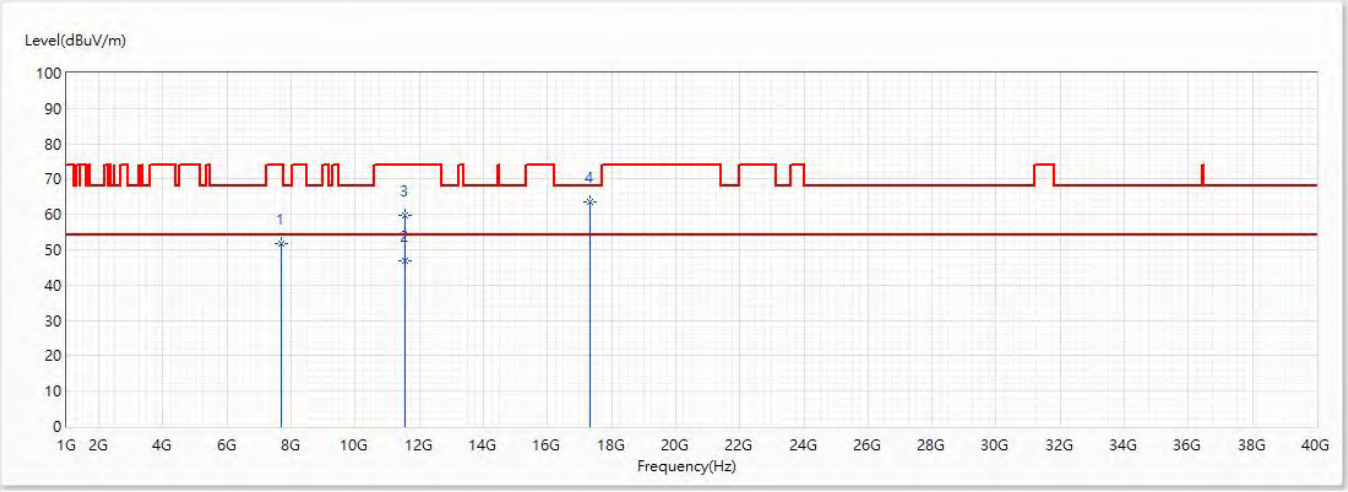


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	7726.667	51.81	74.00	-22.19	50.76	1.05	PK
2	11590	48.01	54.00	-5.99	39.44	8.57	AV
3	11590	61.87	74.00	-12.13	53.30	8.57	PK
* 4	17385	64.09	68.20	-4.11	51.17	12.92	PK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst value.
3. Emission Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The Emission above 18GHz were not included is because their levels are lower than 20dBm form limit.

Site :	CB2-H	Engineer :	Lion
Model No :	USB-AC56	Test Date :	2019/10/25
Test Voltage :	DC 5V (Power by PC)	Polarity :	Horizontal
Test Mode :	Mode 1: Transmit (Dipole Antenna)		
Note :	802.11ac(80M)_5775MHz_MIMO		
Environmental Condition:	Temperature ( ) : 24.6 ; Relative Humidity (%RH) : 57.3		

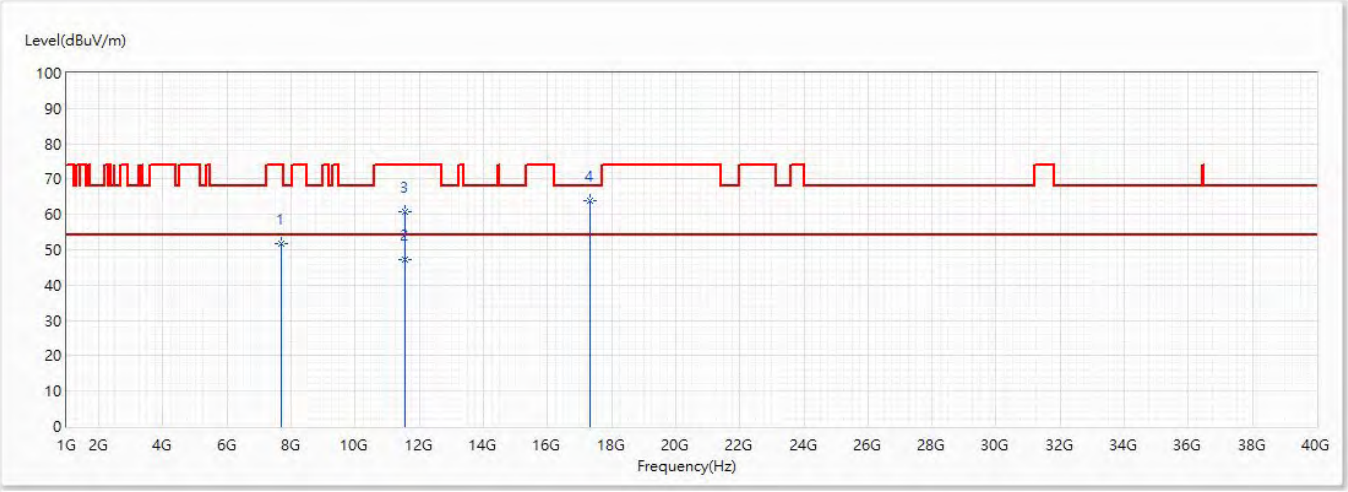


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	7700	51.89	74.00	-22.11	50.86	1.03	PK
2	11550	46.90	54.00	-7.10	38.39	8.51	AV
3	11550	59.71	74.00	-14.29	51.20	8.51	PK
* 4	17325	63.51	68.20	-4.69	50.81	12.70	PK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst value.
3. Emission Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The Emission above 18GHz were not included is because their levels are lower than 20dBm form limit.

Site :	CB2-H	Engineer :	Lion
Model No :	USB-AC56	Test Date :	2019/10/25
Test Voltage :	DC 5V (Power by PC)	Polarity :	Vertical
Test Mode :	Mode 1: Transmit (Dipole Antenna)		
Note :	802.11ac(80M)_5775MHz_MIMO		
Environmental Condition:	Temperature ( ) : 24.6 ; Relative Humidity (%RH) : 57.3		

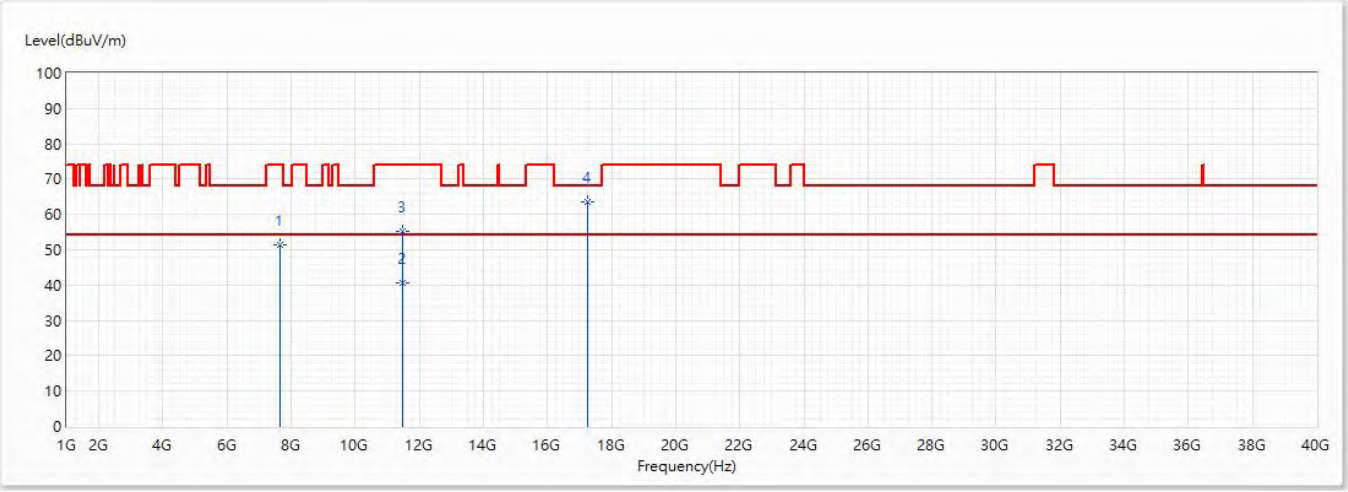


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	7700	51.79	74.00	-22.21	50.76	1.03	PK
2	11550	47.21	54.00	-6.79	38.70	8.51	AV
3	11550	60.93	74.00	-13.07	52.42	8.51	PK
* 4	17325	63.81	68.20	-4.39	51.11	12.70	PK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst value.
3. Emission Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The Emission above 18GHz were not included is because their levels are lower than 20dBm form limit.

Site :	CB2-H	Engineer :	Scott
Model No :	USB-AC56	Test Date :	2019/10/16
Test Voltage :	DC 5V (Power by PC)	Polarity :	Horizontal
Test Mode :	Mode 2: Transmit (PIFA Antenna)		
Note :	802.11a_5745MHz_SISO		
Environmental Condition:	Temperature ( ) : 24.6 ; Relative Humidity (%RH) : 57.3		



No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	7660	51.49	74.00	-22.51	50.51	0.98	PK
2	11490	40.62	54.00	-13.38	32.19	8.43	AV
3	11490	55.32	74.00	-18.68	46.89	8.43	PK
* 4	17235	63.41	68.20	-4.79	51.01	12.40	PK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst value.
3. Emission Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The Emission above 18GHz were not included is because their levels are lower than 20dBm form limit.

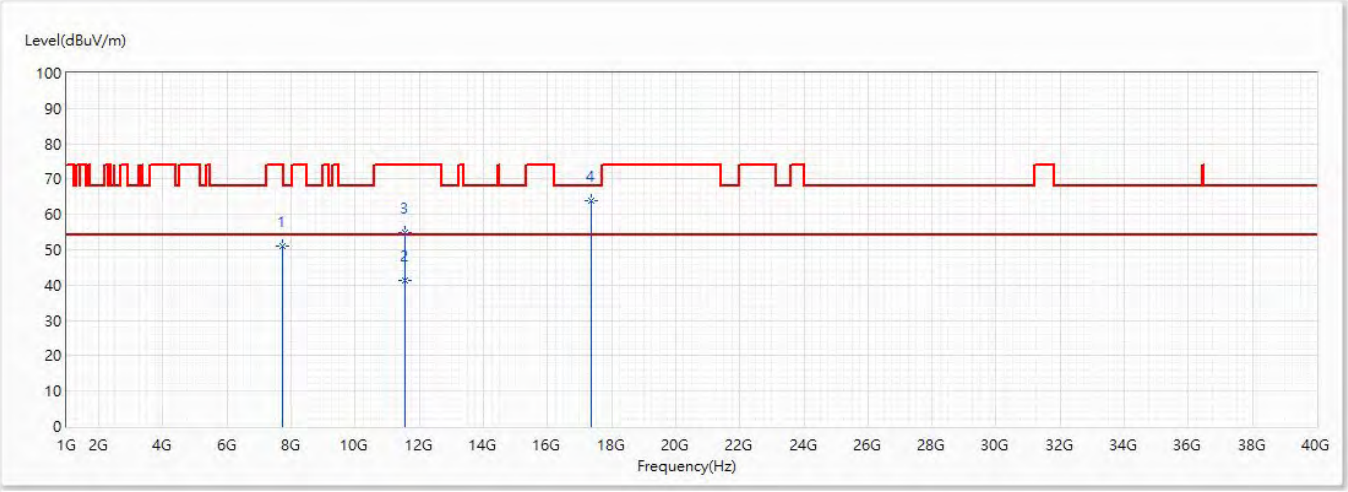
Site :	CB2-H	Engineer :	Scott
Model No :	USB-AC56	Test Date :	2019/10/16
Test Voltage :	DC 5V (Power by PC)	Polarity :	Vertical
Test Mode :	Mode 2: Transmit (PIFA Antenna)		
Note :	802.11a_5745MHz_SISO		
Environmental Condition:	Temperature ( ) : 24.6 ; Relative Humidity (%RH) : 57.3		

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	7660	51.04	74.00	-22.96	50.06	0.98	PK
2	11490	41.59	54.00	-12.41	33.16	8.43	AV
3	11490	54.77	74.00	-19.23	46.34	8.43	PK
* 4	17235	64.05	68.20	-4.15	51.65	12.40	PK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst value.
3. Emission Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The Emission above 18GHz were not included is because their levels are lower than 20dBm form limit.

Site :	CB2-H	Engineer :	Scott
Model No :	USB-AC56	Test Date :	2019/10/16
Test Voltage :	DC 5V (Power by PC)	Polarity :	Vertical
Test Mode :	Mode 2: Transmit (PIFA Antenna)		
Note :	802.11a_5785MHz_SISO		
Environmental Condition:	Temperature ( ) : 24.6 ; Relative Humidity (%RH) : 57.3		

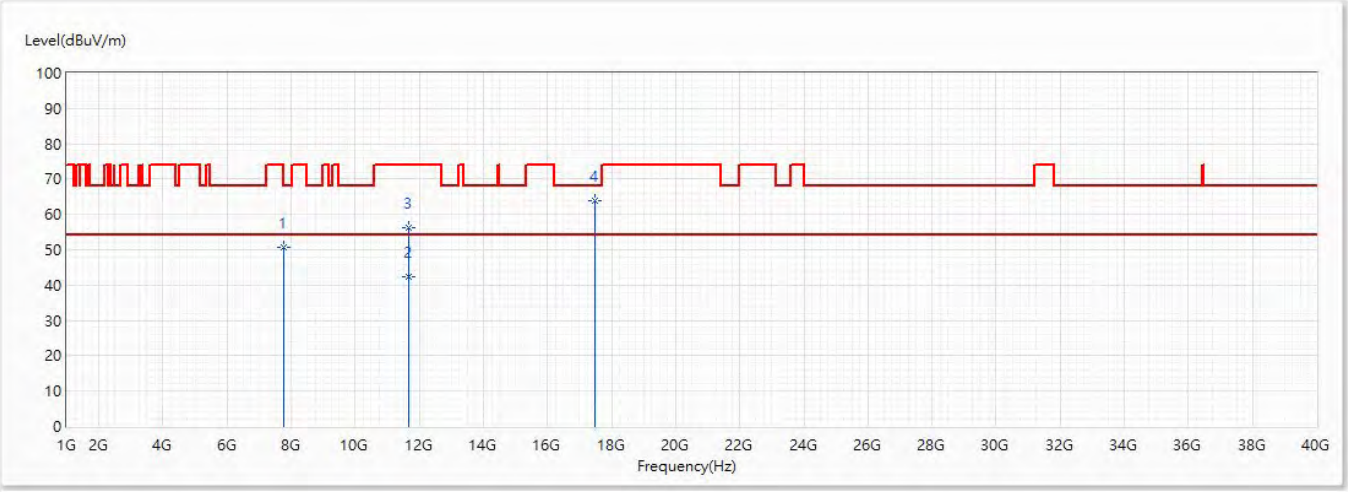


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	7713	51.02	74.00	-22.98	49.98	1.04	PK
2	11570	41.35	54.00	-12.65	32.81	8.54	AV
3	11570	54.96	74.00	-19.04	46.42	8.54	PK
* 4	17355	63.98	68.20	-4.22	51.17	12.81	PK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst value.
3. Emission Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The Emission above 18GHz were not included is because their levels are lower than 20dBm form limit.

Site :	CB2-H	Engineer :	Scott
Model No :	USB-AC56	Test Date :	2019/10/16
Test Voltage :	DC 5V (Power by PC)	Polarity :	Horizontal
Test Mode :	Mode 2: Transmit (PIFA Antenna)		
Note :	802.11a_5825MHz_SISO		
Environmental Condition:	Temperature ( ) : 24.6 ; Relative Humidity (%RH) : 57.3		

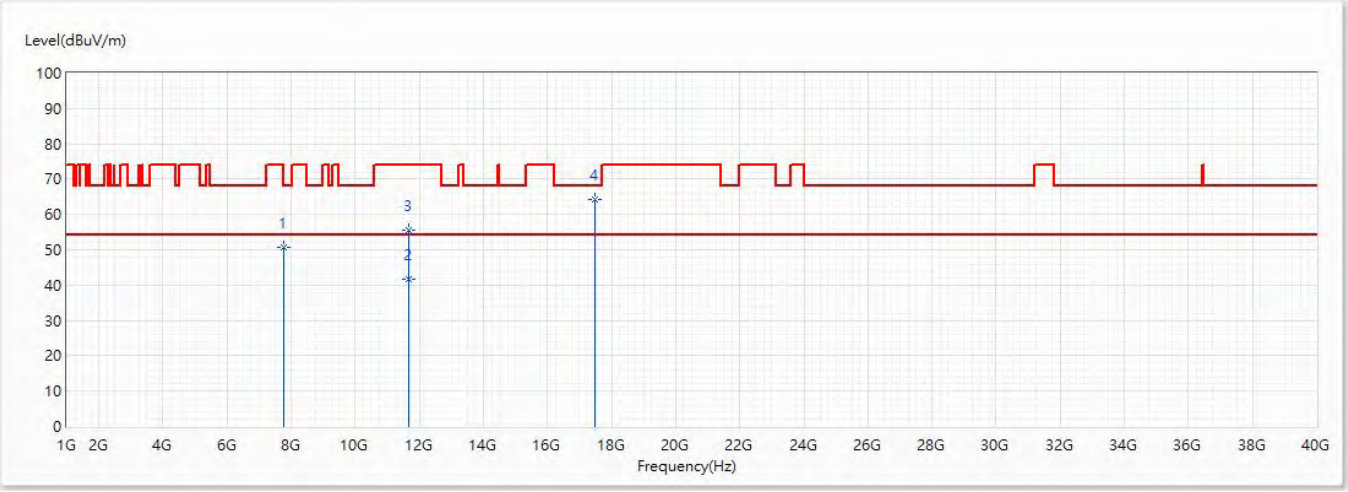


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	7766	50.84	68.20	-17.36	49.74	1.10	PK
2	11650	42.19	54.00	-11.81	33.53	8.66	AV
3	11650	56.28	74.00	-17.72	47.62	8.66	PK
* 4	17475	63.85	68.20	-4.35	50.62	13.23	PK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst value.
3. Emission Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The Emission above 18GHz were not included is because their levels are lower than 20dBm form limit.

Site :	CB2-H	Engineer :	Scott
Model No :	USB-AC56	Test Date :	2019/10/16
Test Voltage :	DC 5V (Power by PC)	Polarity :	Vertical
Test Mode :	Mode 2: Transmit (PIFA Antenna)		
Note :	802.11a_5825MHz_SISO		
Environmental Condition:	Temperature ( ) : 24.6 ; Relative Humidity (%RH) : 57.3		

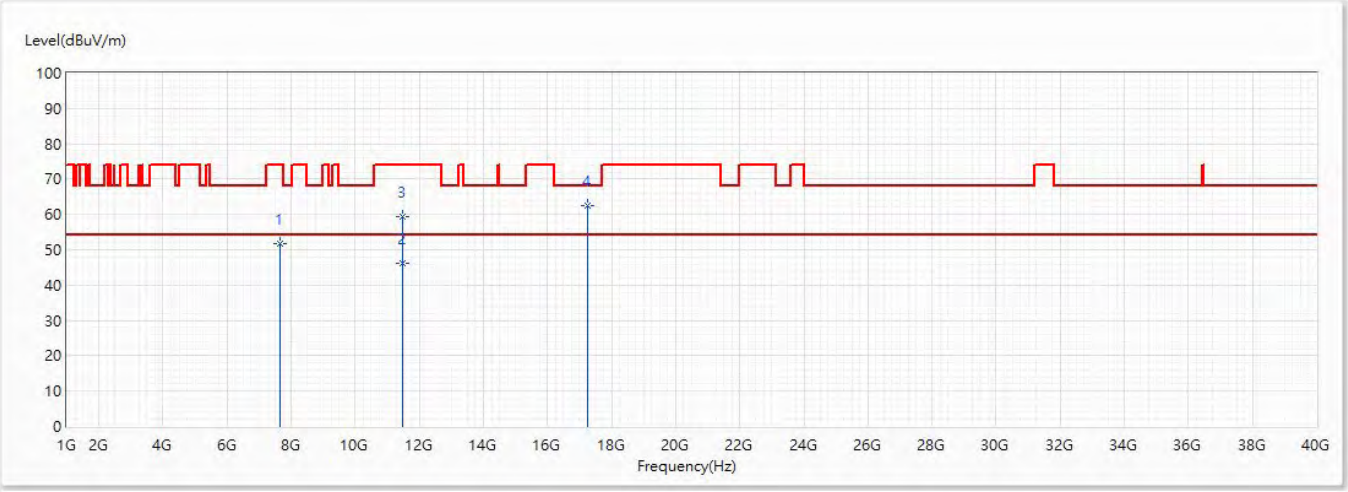


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	7766	50.74	68.20	-17.46	49.64	1.10	PK
2	11650	41.75	54.00	-12.25	33.09	8.66	AV
3	11650	55.60	74.00	-18.40	46.94	8.66	PK
* 4	17475	64.12	68.20	-4.08	50.89	13.23	PK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst value.
3. Emission Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The Emission above 18GHz were not included is because their levels are lower than 20dBm form limit.

Site :	CB2-H	Engineer :	Scott
Model No :	USB-AC56	Test Date :	2019/10/24
Test Voltage :	DC 5V (Power by PC)	Polarity :	Horizontal
Test Mode :	Mode 2: Transmit (PIFA Antenna)		
Note :	802.11n(20M)_5745MHz_MIMO		
Environmental Condition:	Temperature ( ) : 24.6 ; Relative Humidity (%RH) : 57.3		

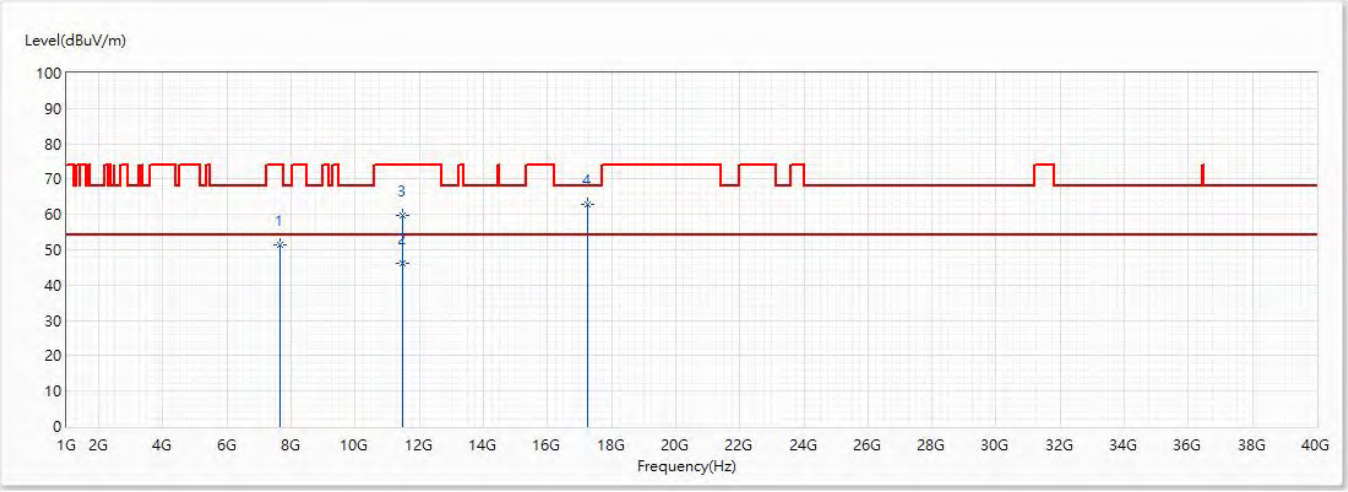


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	7660	51.59	74.00	-22.41	50.61	0.98	PK
2	11490	46.12	54.00	-7.88	37.69	8.43	AV
3	11490	59.43	74.00	-14.57	51.00	8.43	PK
* 4	17235	62.49	68.20	-5.71	50.09	12.40	PK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst value.
3. Emission Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The Emission above 18GHz were not included is because their levels are lower than 20dBm form limit.

Site :	CB2-H	Engineer :	Lion
Model No :	USB-AC56	Test Date :	2019/10/24
Test Voltage :	DC 5V (Power by PC)	Polarity :	Vertical
Test Mode :	Mode 2: Transmit (PIFA Antenna)		
Note :	802.11n(20M)_5745MHz_MIMO		
Environmental Condition:	Temperature ( ) : 24.6 ; Relative Humidity (%RH) : 57.3		

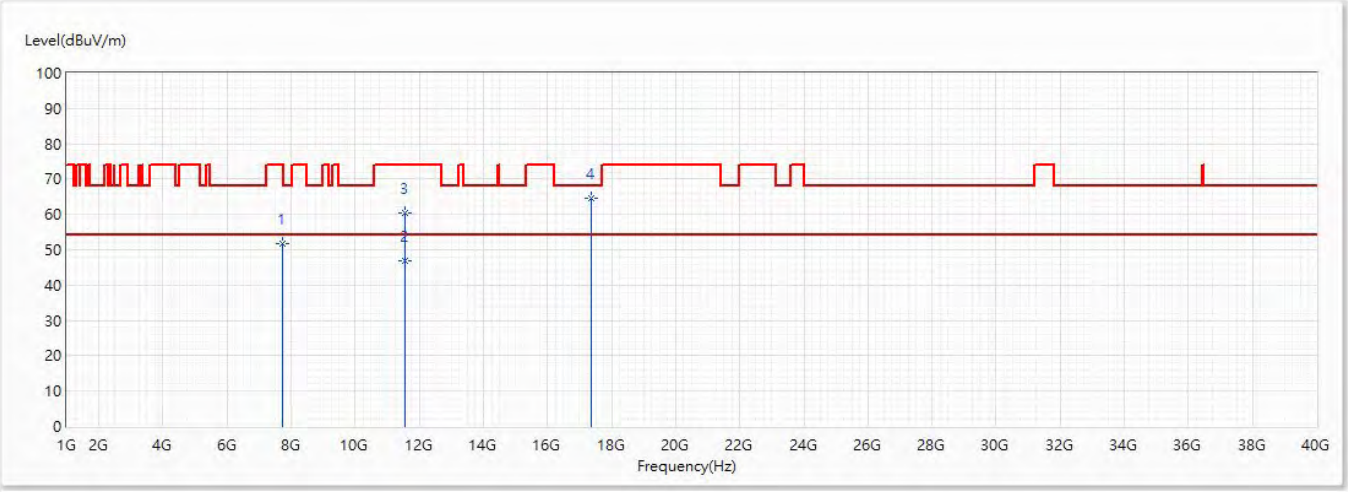


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	7660	51.42	74.00	-22.58	50.44	0.98	PK
2	11490	46.21	54.00	-7.79	37.78	8.43	AV
3	11490	59.84	74.00	-14.16	51.41	8.43	PK
* 4	17235	62.72	68.20	-5.48	50.32	12.40	PK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst value.
3. Emission Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The Emission above 18GHz were not included is because their levels are lower than 20dBm form limit.

Site :	CB2-H	Engineer :	Lion
Model No :	USB-AC56	Test Date :	2019/10/24
Test Voltage :	DC 5V (Power by PC)	Polarity :	Horizontal
Test Mode :	Mode 2: Transmit (PIFA Antenna)		
Note :	802.11n(20M)_5785MHz_MIMO		
Environmental Condition:	Temperature ( ) : 24.6 ; Relative Humidity (%RH) : 57.3		

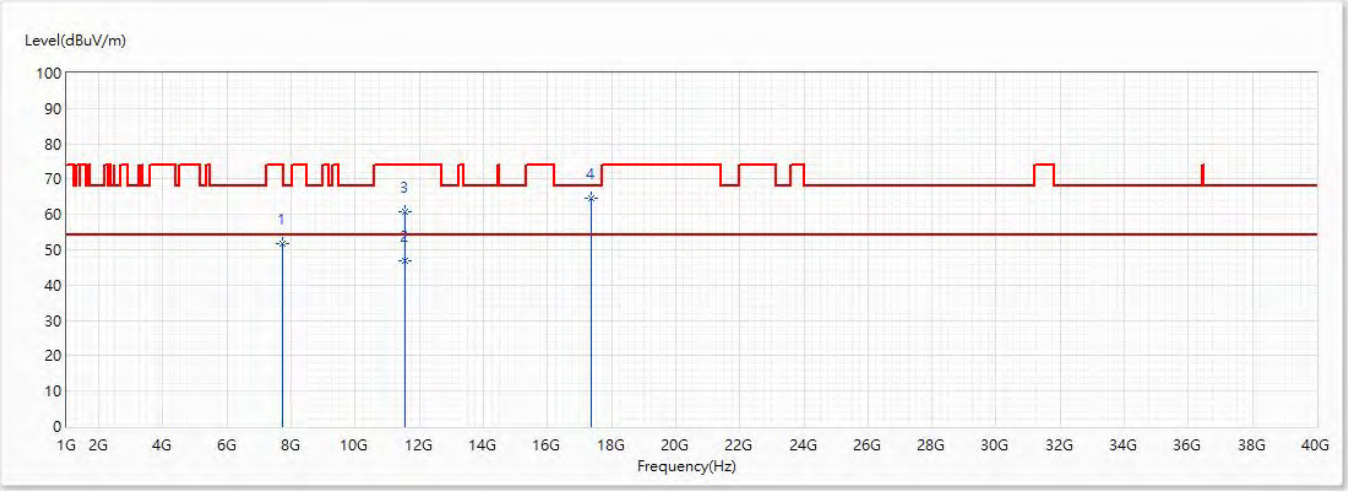


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	7713.333	51.77	74.00	-22.23	50.73	1.04	PK
2	11570	46.88	54.00	-7.12	38.34	8.54	AV
3	11570	60.57	74.00	-13.43	52.03	8.54	PK
* 4	17355	64.51	68.20	-3.69	51.70	12.81	PK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst value.
3. Emission Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The Emission above 18GHz were not included is because their levels are lower than 20dBm form limit.

Site :	CB2-H	Engineer :	Lion
Model No :	USB-AC56	Test Date :	2019/10/24
Test Voltage :	DC 5V (Power by PC)	Polarity :	Vertical
Test Mode :	Mode 2: Transmit (PIFA Antenna)		
Note :	802.11n(20M)_5785MHz_MIMO		
Environmental Condition:	Temperature ( ) : 24.6 ; Relative Humidity (%RH) : 57.3		



No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	7713.333	51.68	74.00	-22.32	50.64	1.04	PK
2	11570	46.95	54.00	-7.05	38.41	8.54	AV
3	11570	60.69	74.00	-13.31	52.15	8.54	PK
* 4	17355	64.49	68.20	-3.71	51.68	12.81	PK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst value.
3. Emission Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The Emission above 18GHz were not included is because their levels are lower than 20dBm form limit.

Site :	CB2-H	Engineer :	Lion
Model No :	USB-AC56	Test Date :	2019/10/24
Test Voltage :	DC 5V (Power by PC)	Polarity :	Horizontal
Test Mode :	Mode 2: Transmit (PIFA Antenna)		
Note :	802.11n(20M)_5825MHz_MIMO		
Environmental Condition:	Temperature ( ) : 24.6 ; Relative Humidity (%RH) : 57.3		

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	7766.667	51.72	68.20	-16.48	50.62	1.10	PK
2	11650	47.18	54.00	-6.82	38.52	8.66	AV
3	11650	60.33	74.00	-13.67	51.67	8.66	PK
* 4	17475	63.86	68.20	-4.34	50.63	13.23	PK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst value.
3. Emission Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The Emission above 18GHz were not included is because their levels are lower than 20dBm form limit.

Site :	CB2-H	Engineer :	Lion
Model No :	USB-AC56	Test Date :	2019/10/24
Test Voltage :	DC 5V (Power by PC)	Polarity :	Vertical
Test Mode :	Mode 2: Transmit (PIFA Antenna)		
Note :	802.11n(20M)_5825MHz_MIMO		
Environmental Condition:	Temperature ( ) : 24.6 ; Relative Humidity (%RH) : 57.3		

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	7766.667	51.69	68.20	-16.51	50.59	1.10	PK
2	11650	47.25	54.00	-6.75	38.59	8.66	AV
3	11650	60.45	74.00	-13.55	51.79	8.66	PK
* 4	17475	63.95	68.20	-4.25	50.72	13.23	PK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst value.
3. Emission Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The Emission above 18GHz were not included is because their levels are lower than 20dBm form limit.

Site :	CB2-H	Engineer :	Lion
Model No :	USB-AC56	Test Date :	2019/10/24
Test Voltage :	DC 5V (Power by PC)	Polarity :	Horizontal
Test Mode :	Mode 2: Transmit (PIFA Antenna)		
Note :	802.11n(40M)_5755MHz_MIMO		
Environmental Condition:	Temperature ( ) : 24.6 ; Relative Humidity (%RH) : 57.3		

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	7673.333	51.58	74.00	-22.42	50.59	0.99	PK
2	11510	46.50	54.00	-7.50	38.05	8.45	AV
3	11510	60.42	74.00	-13.58	51.97	8.45	PK
* 4	17265	62.21	68.20	-5.99	49.72	12.49	PK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst value.
3. Emission Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The Emission above 18GHz were not included is because their levels are lower than 20dBm form limit.

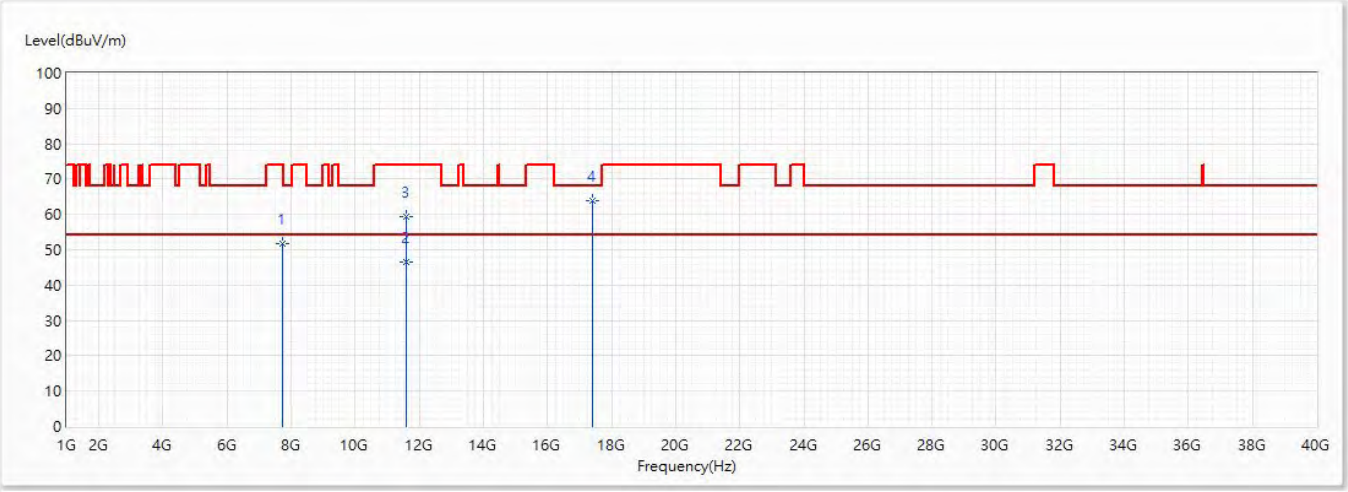
Site :	CB2-H	Engineer :	Lion
Model No :	USB-AC56	Test Date :	2019/10/24
Test Voltage :	DC 5V (Power by PC)	Polarity :	Vertical
Test Mode :	Mode 2: Transmit (PIFA Antenna)		
Note :	802.11n(40M)_5755MHz_MIMO		
Environmental Condition:	Temperature ( ) : 24.6 ; Relative Humidity (%RH) : 57.3		

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	7673.333	51.68	74.00	-22.32	50.69	0.99	PK
2	11510	46.53	54.00	-7.47	38.08	8.45	AV
3	11510	60.53	74.00	-13.47	52.08	8.45	PK
* 4	17265	62.14	68.20	-6.06	49.65	12.49	PK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst value.
3. Emission Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The Emission above 18GHz were not included is because their levels are lower than 20dBm form limit.

Site :	CB2-H	Engineer :	Lion
Model No :	USB-AC56	Test Date :	2019/10/24
Test Voltage :	DC 5V (Power by PC)	Polarity :	Horizontal
Test Mode :	Mode 2: Transmit (PIFA Antenna)		
Note :	802.11n(40M)_5795MHz_MIMO		
Environmental Condition:	Temperature ( ) : 24.6 ; Relative Humidity (%RH) : 57.3		

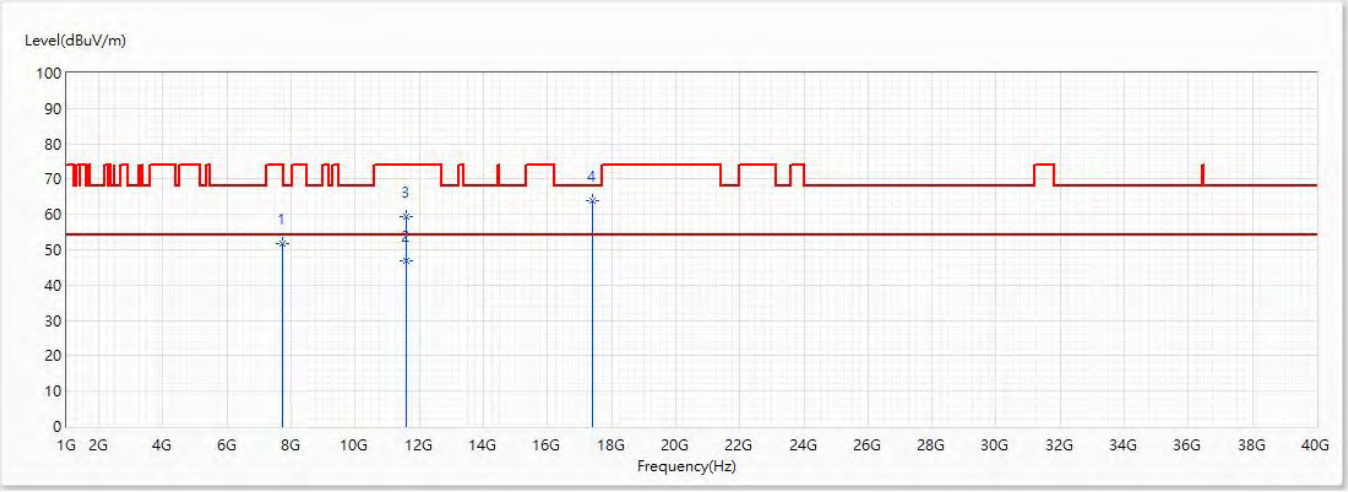


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	7726.667	51.57	74.00	-22.43	50.52	1.05	PK
2	11590	46.62	54.00	-7.38	38.05	8.57	AV
3	11590	59.33	74.00	-14.67	50.76	8.57	PK
* 4	17385	64.06	68.20	-4.14	51.14	12.92	PK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst value.
3. Emission Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The Emission above 18GHz were not included is because their levels are lower than 20dBm form limit.

Site :	CB2-H	Engineer :	Lion
Model No :	USB-AC56	Test Date :	2019/10/24
Test Voltage :	DC 5V (Power by PC)	Polarity :	Vertical
Test Mode :	Mode 2: Transmit (PIFA Antenna)		
Note :	802.11n(40M)_5795MHz_MIMO		
Environmental Condition:	Temperature ( ) : 24.6 ; Relative Humidity (%RH) : 57.3		

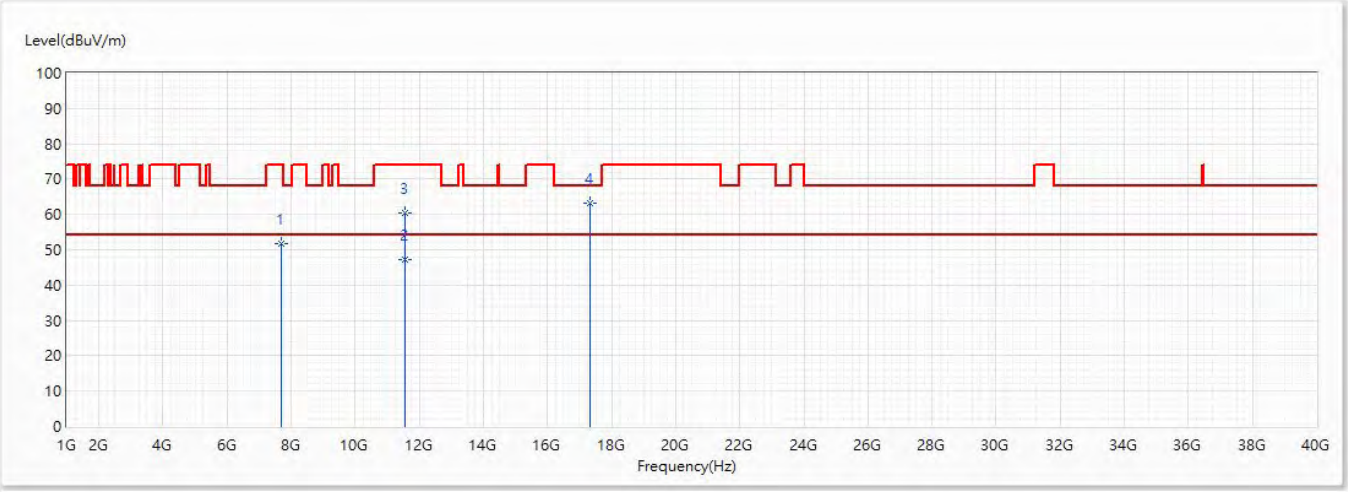


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	7726.667	51.79	74.00	-22.21	50.74	1.05	PK
2	11590	46.71	54.00	-7.29	38.14	8.57	AV
3	11590	59.42	74.00	-14.58	50.85	8.57	PK
* 4	17385	63.98	68.20	-4.22	51.06	12.92	PK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst value.
3. Emission Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The Emission above 18GHz were not included is because their levels are lower than 20dBm form limit.

Site :	CB2-H	Engineer :	Lion
Model No :	USB-AC56	Test Date :	2019/10/24
Test Voltage :	DC 5V (Power by PC)	Polarity :	Horizontal
Test Mode :	Mode 2: Transmit (PIFA Antenna)		
Note :	802.11ac(80M)_5775MHz_MIMO		
Environmental Condition:	Temperature ( ) : 24.6 ; Relative Humidity (%RH) : 57.3		

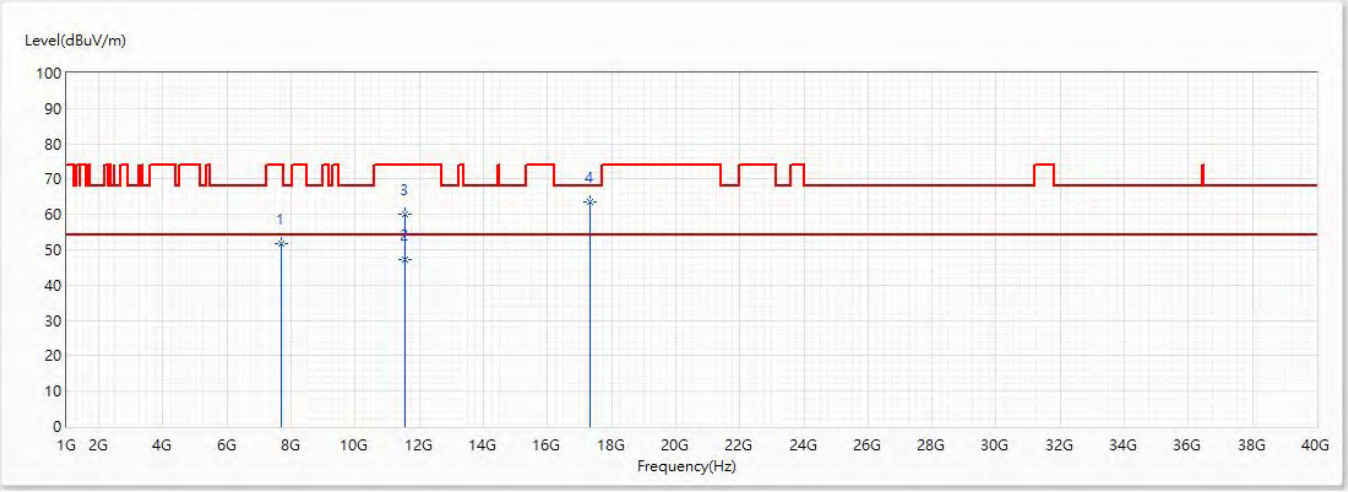


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	7700	51.88	74.00	-22.12	50.85	1.03	PK
2	11550	47.11	54.00	-6.89	38.60	8.51	AV
3	11550	60.25	74.00	-13.75	51.74	8.51	PK
* 4	17325	63.05	68.20	-5.15	50.35	12.70	PK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst value.
3. Emission Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The Emission above 18GHz were not included is because their levels are lower than 20dBm form limit.

Site :	CB2-H	Engineer :	Lion
Model No :	USB-AC56	Test Date :	2019/10/24
Test Voltage :	DC 5V (Power by PC)	Polarity :	Vertical
Test Mode :	Mode 2: Transmit (PIFA Antenna)		
Note :	802.11ac(80M)_5775MHz_MIMO		
Environmental Condition:	Temperature ( ) : 24.6 ; Relative Humidity (%RH) : 57.3		



No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	7700	51.68	74.00	-22.32	50.65	1.03	PK
2	11550	47.05	54.00	-6.95	38.54	8.51	AV
3	11550	59.97	74.00	-14.03	51.46	8.51	PK
* 4	17325	63.59	68.20	-4.61	50.89	12.70	PK

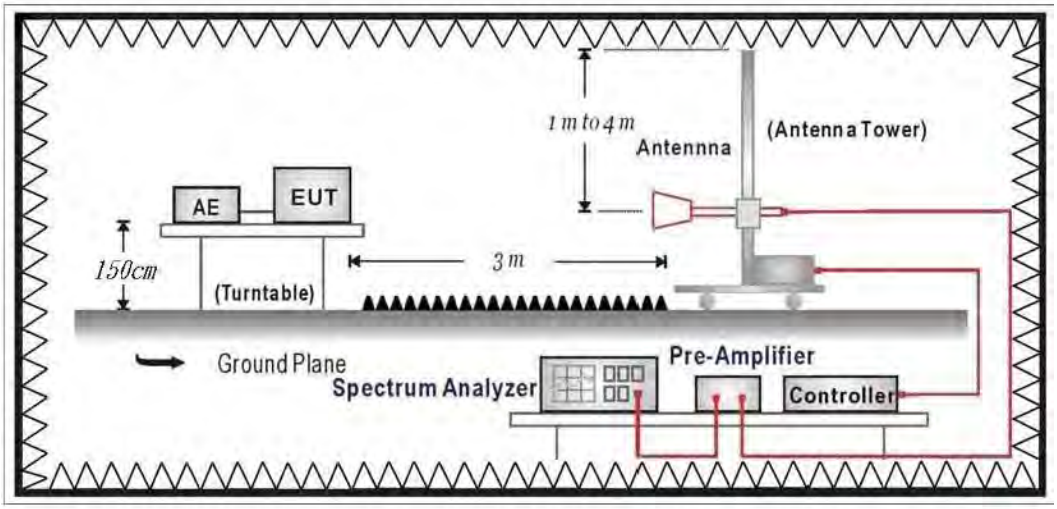
Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst value.
3. Emission Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The Emission above 18GHz were not included is because their levels are lower than 20dBm form limit.

8. Band Edge

8.1. Test Setup

RF Radiated Measurement:



8.2. Limits

➢ **General Radiated Emission Limits**

The provisions of Section 15.205 of this part apply to intentional radiators operating under this section. Radiated emissions which fall in the restricted bands, as defined in Section 15.205, must also comply with the radiated emission limits specified in Section 15.209:

FCC Part 15 Subpart C Paragraph 15.209 Limits		
Frequency MHz	uV/m @3m	dBuV/m@3m
30 - 88	100	40
88 - 216	150	43.5
216 - 960	200	46
Above 960	500	54

Remark:

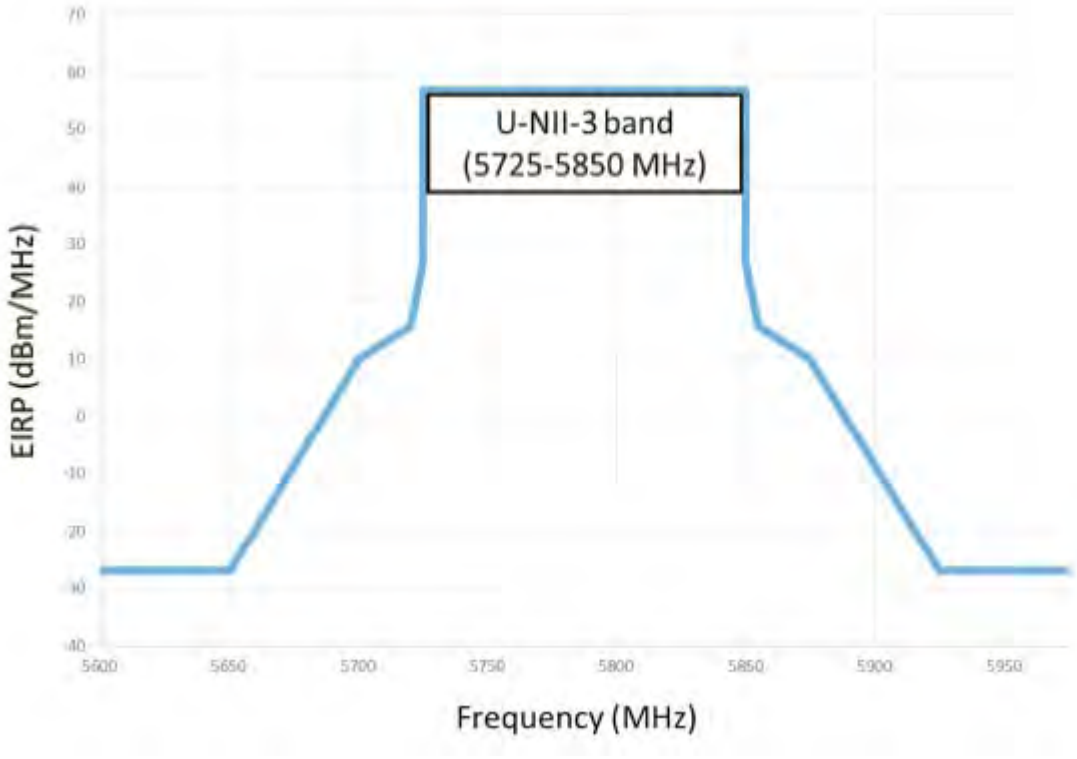
1. RF Voltage (dBuV) = 20 log RF Voltage (uV)
2. In the Above Table, the tighter limit applies at the band edges.
3. Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.

➢ **Unwanted Emission out of the restricted bands Limits**

FCC Part 15 Subpart E Paragraph 15.407(b) Limits		
Frequency (MHz)	EIRP Limit (dBm)	Equivalent Field Strength (dBuV/m@3m)
5150 - 5250	-27	68.3
5250 - 5350	-27	68.3
5470 - 5725	-27	68.3
5725 - 5850	-27 (Note1)	68.3
	-17 (Note2)	78.3

4. For transmitters operating in the 5.725-5.85 GHz band

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 27dBm/MHz at the band edge.



Remark:

1. For frequencies more than 10 MHz above or below the band edges.
2. For frequency range from the band edges to 10 MHz above or below the band edges.
3. uV/m = $\frac{1000000\sqrt{30 \times EIRP}}{3}$, RF Voltage (dBuV/m) = 20 log RF Voltage (uV/m)

8.3. Test Procedure

The EUT and its simulators are placed on a turn table which is 1.5 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.

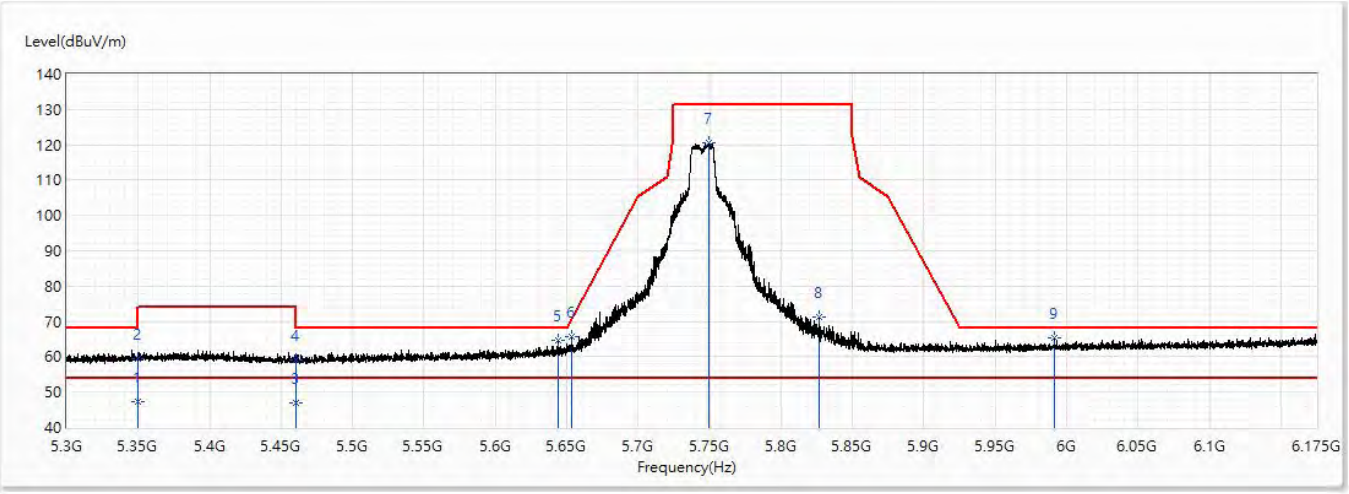
The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level.

Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated according to ANSI C63.10: 2013on radiated measurement.

The bandwidth below 1GHz setting on the field strength meter is 120 KHz, above 1GHz are 1 MHz.

8.4. Test Result

Site :	CB2-H	Engineer :	Scott
Model No :	USB-AC56	Test Date :	2019/10/8
Test Voltage :	DC 5V (Power by PC)	Polarity :	Horizontal
Test Mode :	Mode 1: Transmit (Dipole Antenna)		
Note :	802.11a_5745MHz_SISO		
Environmental Condition:	Temperature ( ) : 24.6 ; Relative Humidity (%RH) : 57.3		

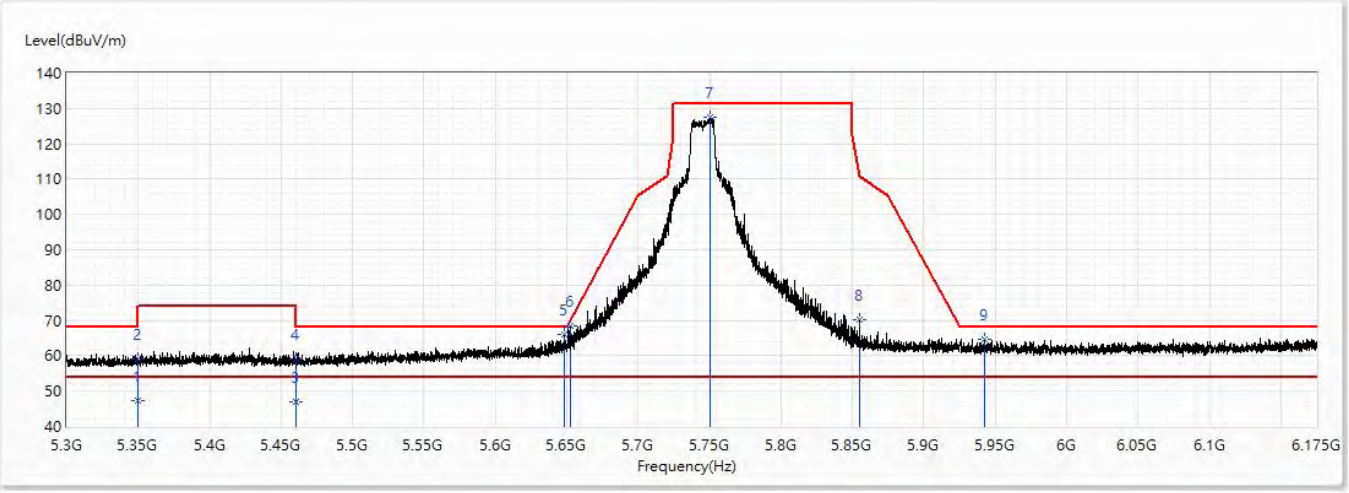


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	5350.001	47.32	54.00	-6.68	19.80	27.52	AV
2	5350.001	59.47	74.00	-14.53	31.95	27.52	PK
3	5459.99	46.91	54.00	-7.09	19.28	27.63	AV
4	5459.99	59.21	74.00	-14.79	31.58	27.63	PK
5	5643.656	64.79	68.20	-3.41	36.32	28.47	PK
6	5653.828	65.63	71.04	-5.41	37.09	28.54	PK
7	5749.094	120.53	131.20	-10.67	91.47	29.06	PK
8	5827.078	71.17	131.20	-60.03	41.67	29.50	PK
* 9	5991.141	65.27	68.20	-2.93	34.86	30.41	PK

Note:

1. All reading above 1GHz is performed with peak measurements as necessary.
2. Emission Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.
4. The fundamental for reference only, it’s not restricted by unwanted emission limit.

Site :	CB2-H	Engineer :	Scott
Model No :	USB-AC56	Test Date :	2019/10/15
Test Voltage :	DC 5V (Power by PC)	Polarity :	Vertical
Test Mode :	Mode 1: Transmit (Dipole Antenna)		
Note :	802.11a_5745MHz_SISO		
Environmental Condition:	Temperature ( ) : 24.6 ; Relative Humidity (%RH) : 57.3		

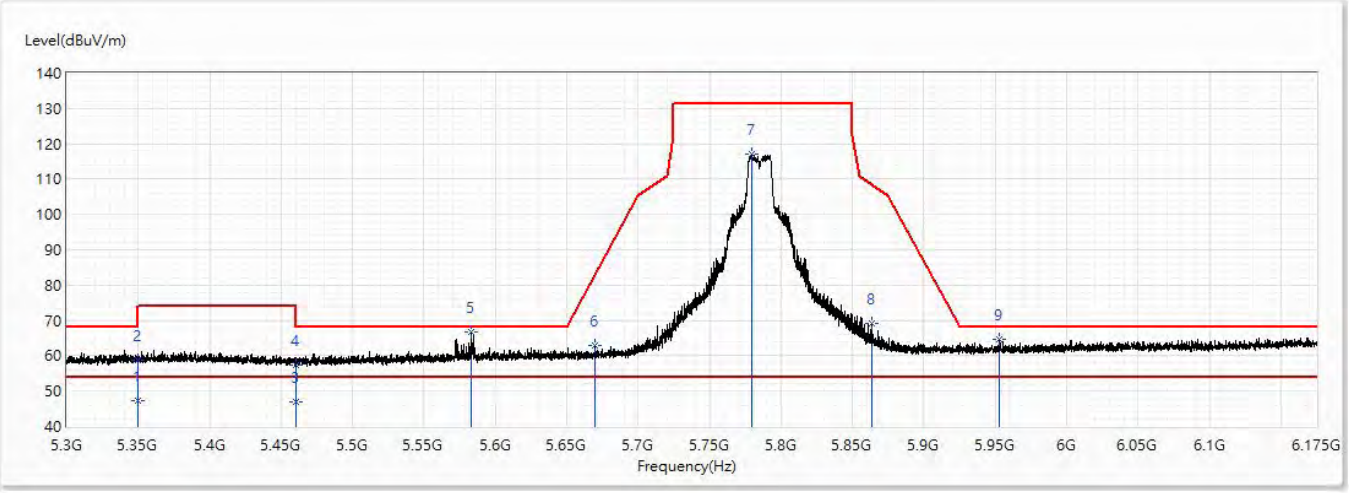


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	5350.001	47.38	54.00	-6.62	19.86	27.52	AV
2	5350.001	59.10	74.00	-14.90	31.58	27.52	PK
3	5459.99	46.85	54.00	-7.15	19.22	27.63	AV
4	5459.99	59.13	74.00	-14.87	31.50	27.63	PK
5	5648.359	65.87	68.20	-2.33	37.37	28.50	PK
* 6	5652.188	68.40	69.83	-1.43	39.89	28.51	PK
7	5750.188	127.41	131.20	-3.79	98.34	29.07	PK
8	5855.188	70.19	110.75	-40.56	40.53	29.66	PK
9	5942.141	64.57	68.20	-3.63	34.43	30.14	PK

Note:

1. All reading above 1GHz is performed with peak measurements as necessary.
2. Emission Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.
4. The fundamental for reference only, it’s not restricted by unwanted emission limit.

Site :	CB2-H	Engineer :	Scott
Model No :	USB-AC56	Test Date :	2019/10/15
Test Voltage :	DC 5V (Power by PC)	Polarity :	Horizontal
Test Mode :	Mode 1: Transmit (Dipole Antenna)		
Note :	802.11a_5785MHz_SISO		
Environmental Condition:	Temperature ( ) : 24.6 ; Relative Humidity (%RH) : 57.3		

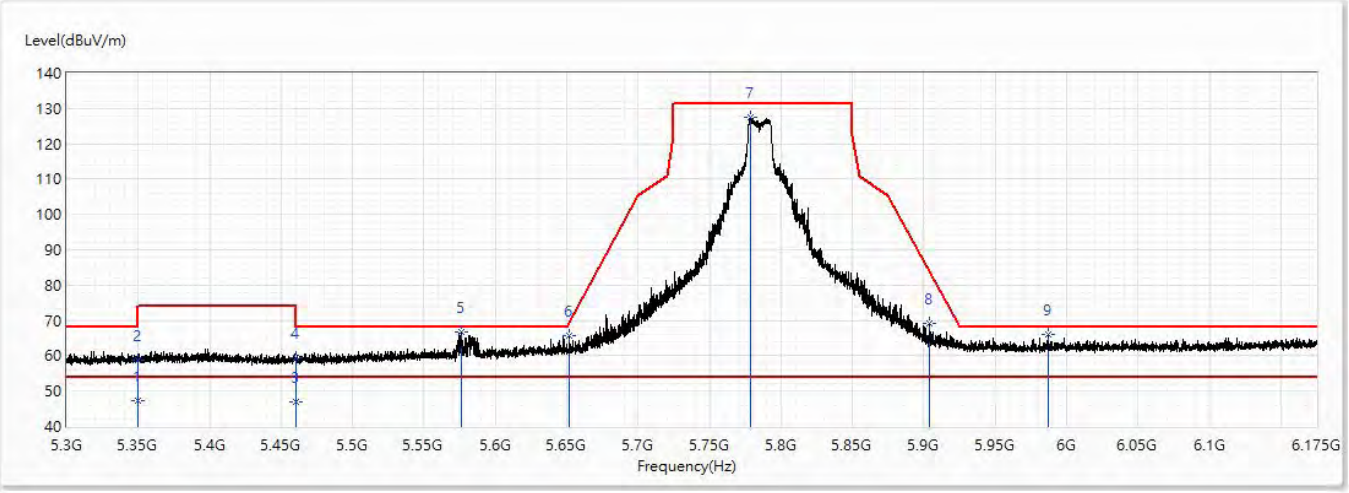


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	5350.001	47.25	54.00	-6.75	19.73	27.52	AV
2	5350.001	58.84	74.00	-15.16	31.32	27.52	PK
3	5459.99	46.92	54.00	-7.08	19.29	27.63	AV
4	5459.99	57.31	74.00	-16.69	29.68	27.63	PK
* 5	5583.172	66.69	68.20	-1.51	38.56	28.13	PK
6	5669.688	62.79	82.81	-20.02	34.17	28.62	PK
7	5779.5	117.19	131.20	-14.01	87.97	29.22	PK
8	5863.719	69.00	108.36	-39.36	39.30	29.70	PK
9	5953.188	64.50	68.20	-3.70	34.29	30.21	PK

Note:

1. All reading above 1GHz is performed with peak measurements as necessary.
2. Emission Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.
4. The fundamental for reference only, it’s not restricted by unwanted emission limit.

Site :	CB2-H	Engineer :	Scott
Model No :	USB-AC56	Test Date :	2019/10/15
Test Voltage :	DC 5V (Power by PC)	Polarity :	Vertical
Test Mode :	Mode 1: Transmit (Dipole Antenna)		
Note :	802.11a_5785MHz_SISO		
Environmental Condition:	Temperature ( ) : 24.6 ; Relative Humidity (%RH) : 57.3		

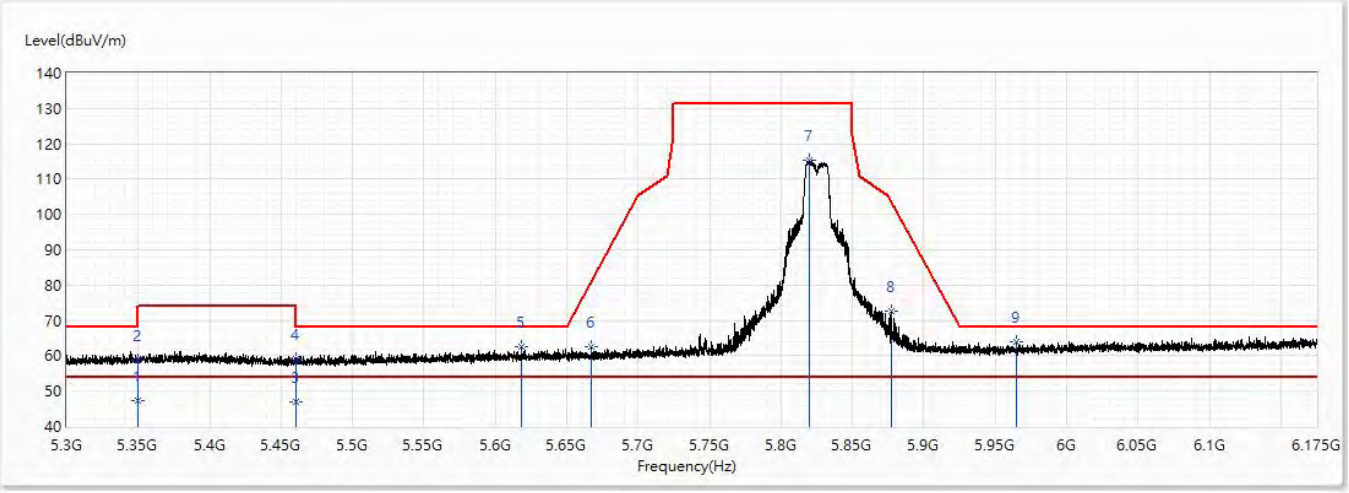


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	5350.001	47.19	54.00	-6.81	19.67	27.52	AV
2	5350.001	58.69	74.00	-15.31	31.17	27.52	PK
3	5459.99	46.97	54.00	-7.03	19.34	27.63	AV
4	5459.99	59.30	74.00	-14.70	31.67	27.63	PK
* 5	5575.844	66.73	68.20	-1.47	38.63	28.10	PK
6	5651.641	65.69	69.42	-3.73	37.18	28.51	PK
7	5778.844	127.38	131.20	-3.82	98.16	29.22	PK
8	5903.859	69.07	83.81	-14.74	39.14	29.93	PK
9	5986.766	66.01	68.20	-2.19	35.62	30.39	PK

Note:

1. All reading above 1GHz is performed with peak measurements as necessary.
2. Emission Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.
4. The fundamental for reference only, it’s not restricted by unwanted emission limit.

Site :	CB2-H	Engineer :	Scott
Model No :	USB-AC56	Test Date :	2019/10/15
Test Voltage :	DC 5V (Power by PC)	Polarity :	Horizontal
Test Mode :	Mode 1: Transmit (Dipole Antenna)		
Note :	802.11a_5825MHz_SISO		
Environmental Condition:	Temperature ( ) : 24.6 ; Relative Humidity (%RH) : 57.3		

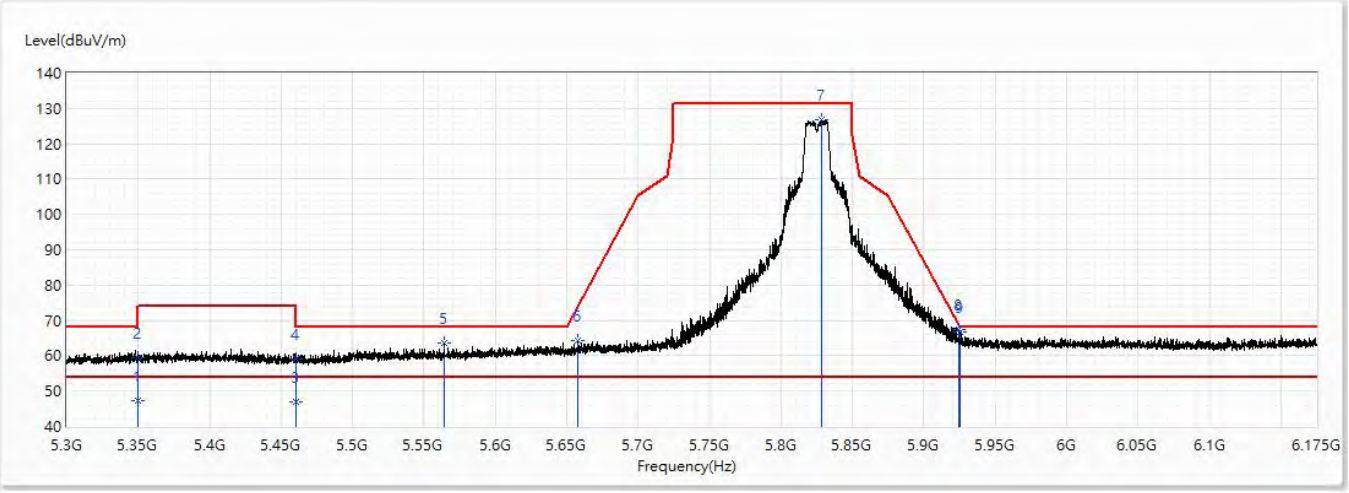


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	5350.001	47.20	54.00	-6.80	19.68	27.52	AV
2	5350.001	58.70	74.00	-15.30	31.18	27.52	PK
3	5459.99	46.95	54.00	-7.05	19.32	27.63	AV
4	5459.99	59.16	74.00	-14.84	31.53	27.63	PK
5	5618.063	62.58	68.20	-5.62	34.25	28.33	PK
6	5666.953	62.67	80.78	-18.11	34.07	28.60	PK
7	5819.75	115.33	131.20	-15.87	85.87	29.46	PK
8	5877.281	72.79	103.51	-30.72	43.01	29.78	PK
* 9	5965.109	64.07	68.20	-4.13	33.81	30.26	PK

Note:

1. All reading above 1GHz is performed with peak measurements as necessary.
2. Emission Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.
4. The fundamental for reference only, it’s not restricted by unwanted emission limit.

Site :	CB2-H	Engineer :	Scott
Model No :	USB-AC56	Test Date :	2019/10/15
Test Voltage :	DC 5V (Power by PC)	Polarity :	Vertical
Test Mode :	Mode 1: Transmit (Dipole Antenna)		
Note :	802.11a_5825MHz_SISO		
Environmental Condition:	Temperature ( ) : 24.6 ; Relative Humidity (%RH) : 57.3		

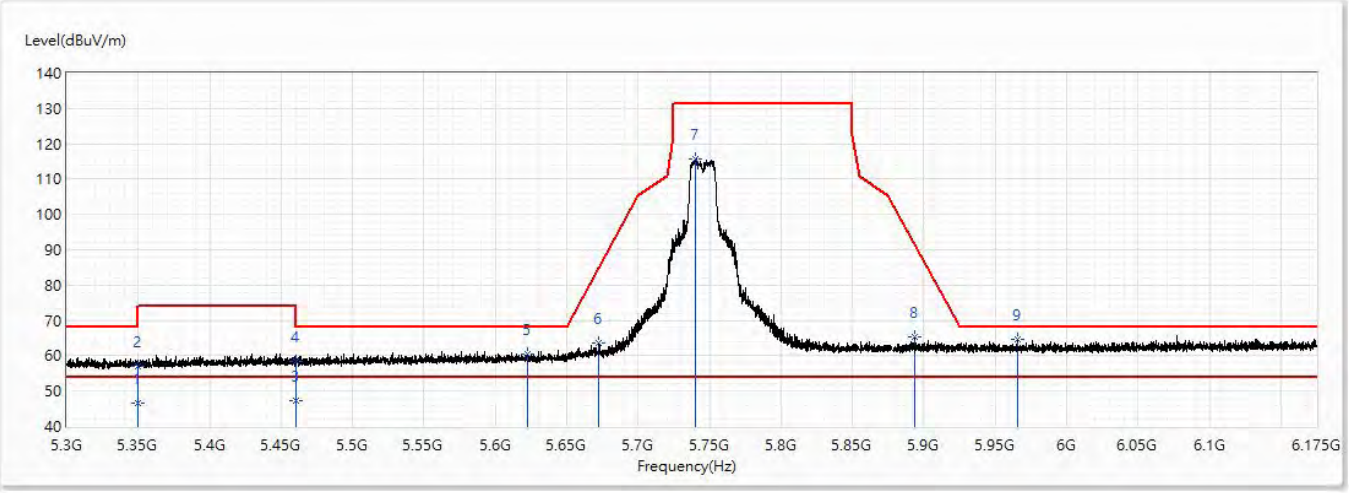


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	5350.001	47.28	54.00	-6.72	19.76	27.52	AV
2	5350.001	59.53	74.00	-14.47	32.01	27.52	PK
3	5459.99	46.92	54.00	-7.08	19.29	27.63	AV
4	5459.99	58.99	74.00	-15.01	31.36	27.63	PK
5	5564.031	63.50	68.20	-4.70	35.46	28.04	PK
6	5658.094	64.26	74.21	-9.95	35.71	28.55	PK
7	5828.391	126.67	131.20	-4.53	97.17	29.50	PK
* 8	5924.422	67.58	68.63	-1.05	37.54	30.04	PK
9	5925.625	66.81	68.20	-1.39	36.76	30.05	PK

Note:

1. All reading above 1GHz is performed with peak measurements as necessary.
2. Emission Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.
4. The fundamental for reference only, it’s not restricted by unwanted emission limit.

Site :	CB2-H	Engineer :	Scott
Model No :	USB-AC56	Test Date :	2019/10/23
Test Voltage :	DC 5V (Power by PC)	Polarity :	Horizontal
Test Mode :	Mode 1: Transmit (Dipole Antenna)		
Note :	802.11n(20M)_5745MHz_MIMO		
Environmental Condition:	Temperature ( ) : 24.6 ; Relative Humidity (%RH) : 57.3		

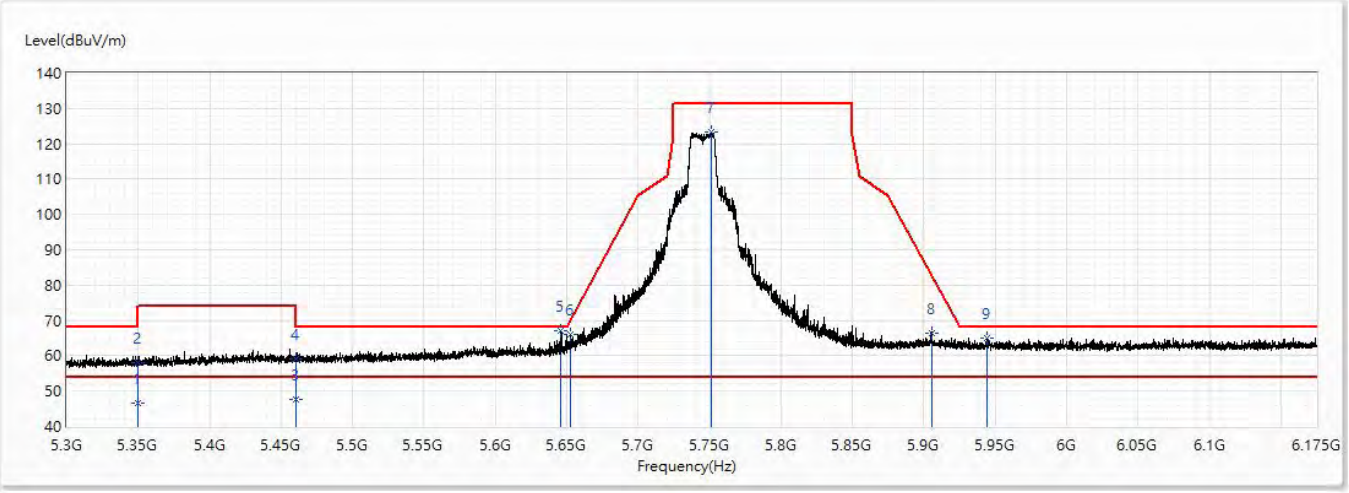


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	5350.001	46.43	54.00	-7.57	18.91	27.52	AV
2	5350.001	57.13	74.00	-16.87	29.61	27.52	PK
3	5459.999	47.20	54.00	-6.80	19.57	27.63	AV
4	5459.999	58.41	74.00	-15.59	30.78	27.63	PK
5	5622.656	60.63	68.20	-7.57	32.28	28.35	PK
6	5672.422	63.47	84.83	-21.36	34.84	28.63	PK
7	5740.453	115.78	131.20	-15.42	86.77	29.01	PK
8	5893.469	65.23	91.50	-26.27	35.36	29.87	PK
* 9	5965.875	64.54	68.20	-3.66	34.27	30.27	PK

Note:

1. All reading above 1GHz is performed with peak measurements as necessary.
2. Emission Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.
4. The fundamental for reference only, it’s not restricted by unwanted emission limit.

Site :	CB2-H	Engineer :	Scott
Model No :	USB-AC56 (SAR Sample)	Test Date :	2019/10/23
Test Voltage :	DC 5V (Power by PC)	Polarity :	Vertical
Test Mode :	Mode 1: Transmit (Dipole Antenna)		
Note :	802.11n(20M)_5745MHz_MIMO		
Environmental Condition:	Temperature ( ) : 24.6 ; Relative Humidity (%RH) : 57.3		

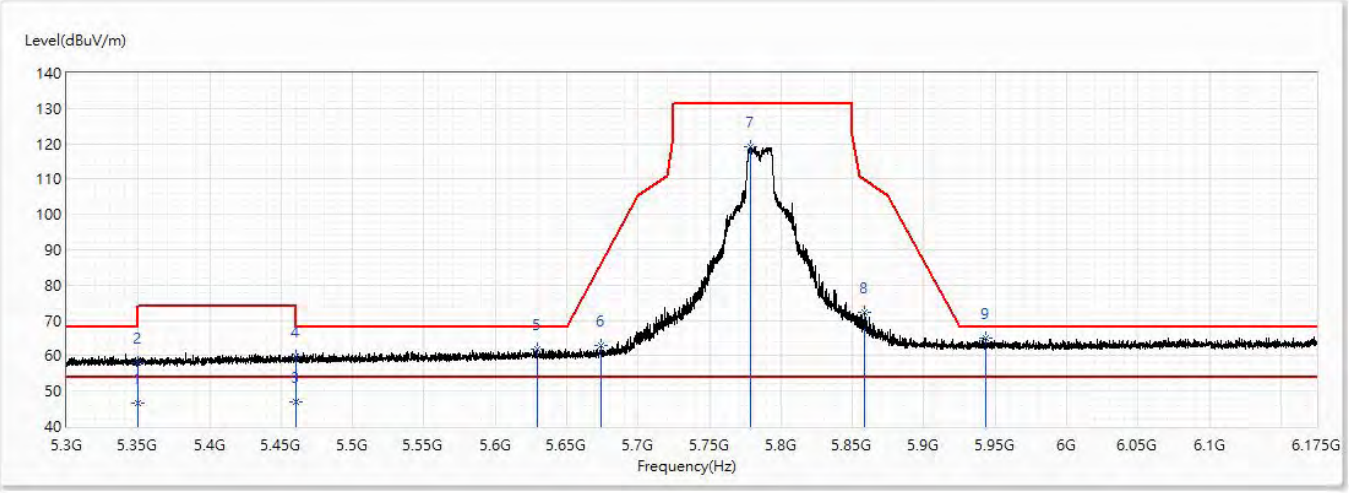


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	5350.001	46.64	54.00	-7.36	19.12	27.52	AV
2	5350.001	57.97	74.00	-16.03	30.45	27.52	PK
3	5459.999	47.62	54.00	-6.38	19.99	27.63	AV
4	5459.999	59.16	74.00	-14.84	31.53	27.63	PK
* 5	5645.734	67.10	68.20	-1.10	38.61	28.49	PK
6	5652.188	65.99	69.83	-3.83	37.48	28.51	PK
7	5751.5	123.44	131.20	-7.76	94.37	29.07	PK
8	5905.281	66.56	82.75	-16.23	36.63	29.93	PK
9	5944.438	65.10	68.20	-3.10	34.95	30.15	PK

Note:

1. All reading above 1GHz is performed with peak measurements as necessary.
2. Emission Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.
4. The fundamental for reference only, it’s not restricted by unwanted emission limit.

Site :	CB2-H	Engineer :	Scott
Model No :	USB-AC56	Test Date :	2019/10/23
Test Voltage :	DC 5V (Power by PC)	Polarity :	Horizontal
Test Mode :	Mode 1: Transmit (Dipole Antenna)		
Note :	802.11n(20M)_5785MHz_MIMO		
Environmental Condition:	Temperature ( ) : 24.6 ; Relative Humidity (%RH) : 57.3		



No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	5350.001	46.53	54.00	-7.47	19.01	27.52	AV
2	5350.001	58.10	74.00	-15.90	30.58	27.52	PK
3	5459.999	47.09	54.00	-6.91	19.46	27.63	AV
4	5459.999	59.72	74.00	-14.28	32.09	27.63	PK
5	5629.328	61.95	68.20	-6.25	33.56	28.39	PK
6	5674.172	62.78	86.13	-23.35	34.15	28.63	PK
7	5778.734	119.09	131.20	-12.11	89.87	29.22	PK
8	5858.031	72.18	109.95	-37.77	42.52	29.66	PK
* 9	5943.563	65.17	68.20	-3.03	35.03	30.14	PK

Note:

1. All reading above 1GHz is performed with peak measurements as necessary.
2. Emission Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.
4. The fundamental for reference only, it’s not restricted by unwanted emission limit.

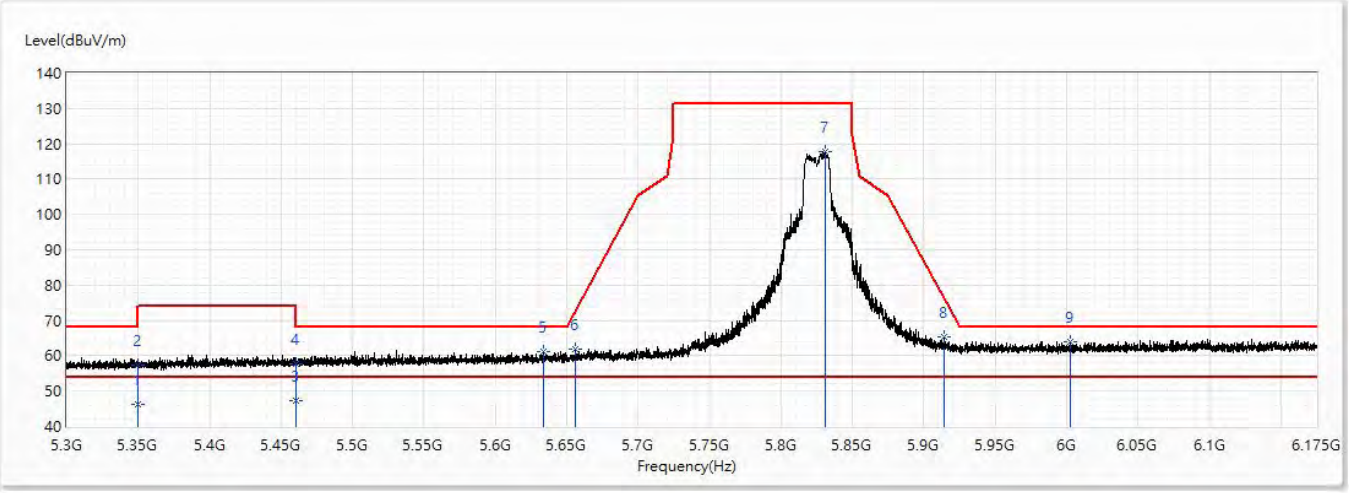
Site :	CB2-H	Engineer :	Scott
Model No :	USB-AC56	Test Date :	2019/10/23
Test Voltage :	DC 5V (Power by PC)	Polarity :	Vertical
Test Mode :	Mode 1: Transmit (Dipole Antenna)		
Note :	802.11n(20M)_5785MHz_MIMO		
Environmental Condition:	Temperature ( ) : 24.6 ; Relative Humidity (%RH) : 57.3		

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	5350.001	47.22	54.00	-6.78	19.70	27.52	AV
2	5350.001	58.57	74.00	-15.43	31.05	27.52	PK
3	5459.999	47.01	54.00	-6.99	19.38	27.63	AV
4	5459.999	60.32	74.00	-13.68	32.69	27.63	PK
* 5	5646.938	66.62	68.20	-1.58	38.13	28.49	PK
6	5675.922	69.40	87.42	-17.98	40.74	28.66	PK
7	5791.969	124.25	131.20	-6.95	94.95	29.30	PK
8	5877.281	73.69	103.51	-29.82	43.91	29.78	PK
9	5942.906	65.63	68.20	-2.57	35.49	30.14	PK

Note:

1. All reading above 1GHz is performed with peak measurements as necessary.
2. Emission Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.
4. The fundamental for reference only, it’s not restricted by unwanted emission limit.

Site :	CB2-H	Engineer :	Scott
Model No :	USB-AC56	Test Date :	2019/10/23
Test Voltage :	DC 5V (Power by PC)	Polarity :	Horizontal
Test Mode :	Mode 1: Transmit (Dipole Antenna)		
Note :	802.11n(20M)_5825MHz_MIMO		
Environmental Condition:	Temperature ( ) : 24.6 ; Relative Humidity (%RH) : 57.3		

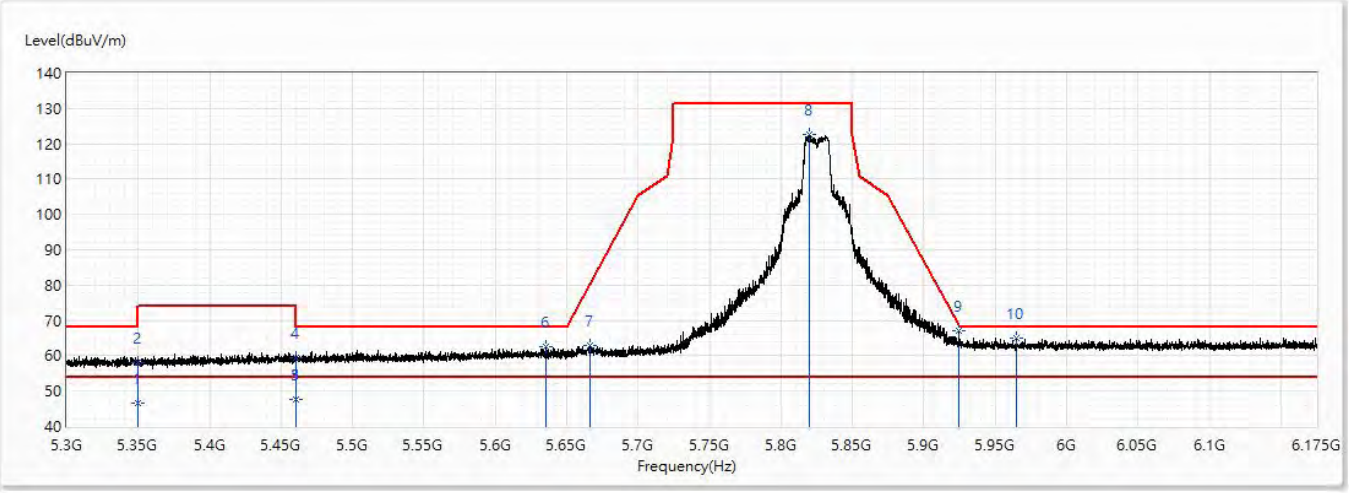


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	5350.001	46.22	54.00	-7.78	18.70	27.52	AV
2	5350.001	57.43	74.00	-16.57	29.91	27.52	PK
3	5459.999	47.22	54.00	-6.78	19.59	27.63	AV
4	5459.999	57.59	74.00	-16.41	29.96	27.63	PK
5	5633.375	61.14	68.20	-7.06	32.72	28.42	PK
6	5656.234	61.71	72.83	-11.13	33.17	28.54	PK
7	5831.125	117.69	131.20	-13.51	88.17	29.52	PK
8	5914.25	65.25	76.13	-10.88	35.26	29.99	PK
* 9	6002.406	63.83	68.20	-4.37	33.36	30.47	PK

Note:

1. All reading above 1GHz is performed with peak measurements as necessary.
2. Emission Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.
4. The fundamental for reference only, it’s not restricted by unwanted emission limit.

Site :	CB2-H	Engineer :	Scott
Model No :	USB-AC56	Test Date :	2019/10/23
Test Voltage :	DC 5V (Power by PC)	Polarity :	Vertical
Test Mode :	Mode 1: Transmit (Dipole Antenna)		
Note :	802.11n(20M)_5825MHz_MIMO		
Environmental Condition:	Temperature ( ) : 24.6 ; Relative Humidity (%RH) : 57.3		

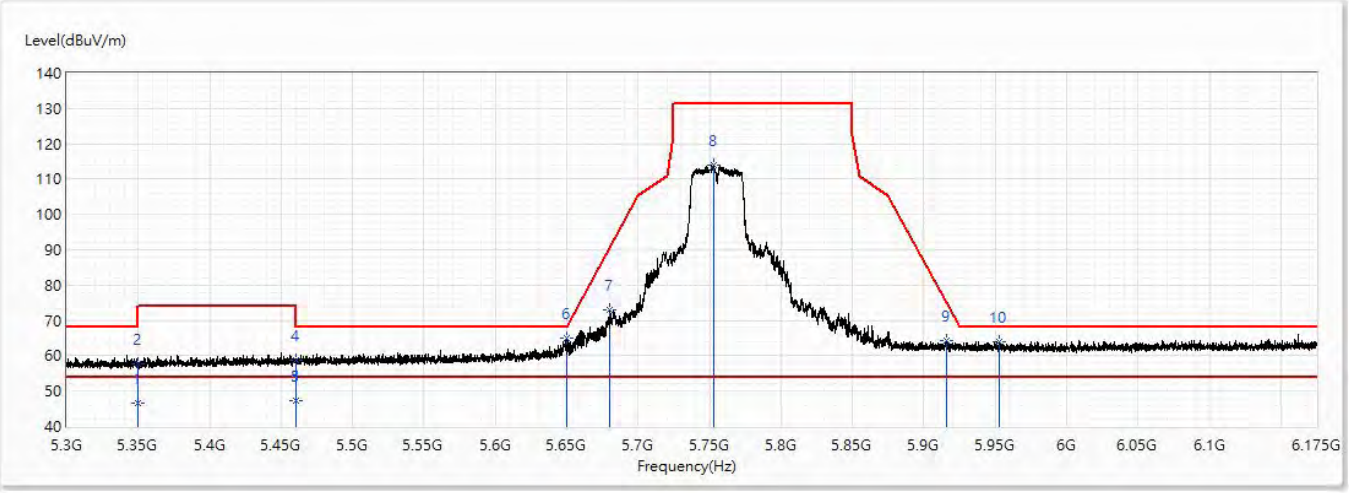


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	5350.001	46.74	54.00	-7.26	19.22	27.52	AV
2	5350.001	58.12	74.00	-15.88	30.60	27.52	PK
3	5459.999	47.73	54.00	-6.27	20.10	27.63	AV
4	5459.999	59.56	74.00	-14.44	31.93	27.63	PK
5	5460	47.73	54.00	-6.27	20.10	27.63	AV
6	5635.563	62.48	68.20	-5.72	34.06	28.42	PK
7	5665.969	62.89	80.05	-17.12	34.30	28.59	PK
8	5819.859	122.47	131.20	-8.73	93.01	29.46	PK
* 9	5924.531	67.12	68.55	-1.43	37.08	30.04	PK
10	5964.672	64.95	68.20	-3.25	34.69	30.26	PK

Note:

1. All reading above 1GHz is performed with peak measurements as necessary.
2. Emission Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.
4. The fundamental for reference only, it’s not restricted by unwanted emission limit.

Site :	CB2-H	Engineer :	Scott
Model No :	USB-AC56	Test Date :	2019/10/23
Test Voltage :	DC 5V (Power by PC)	Polarity :	Horizontal
Test Mode :	Mode 1: Transmit (Dipole Antenna)		
Note :	802.11n(40M)_5755MHz_MIMO		
Environmental Condition:	Temperature ( ) : 24.6 ; Relative Humidity (%RH) : 57.3		

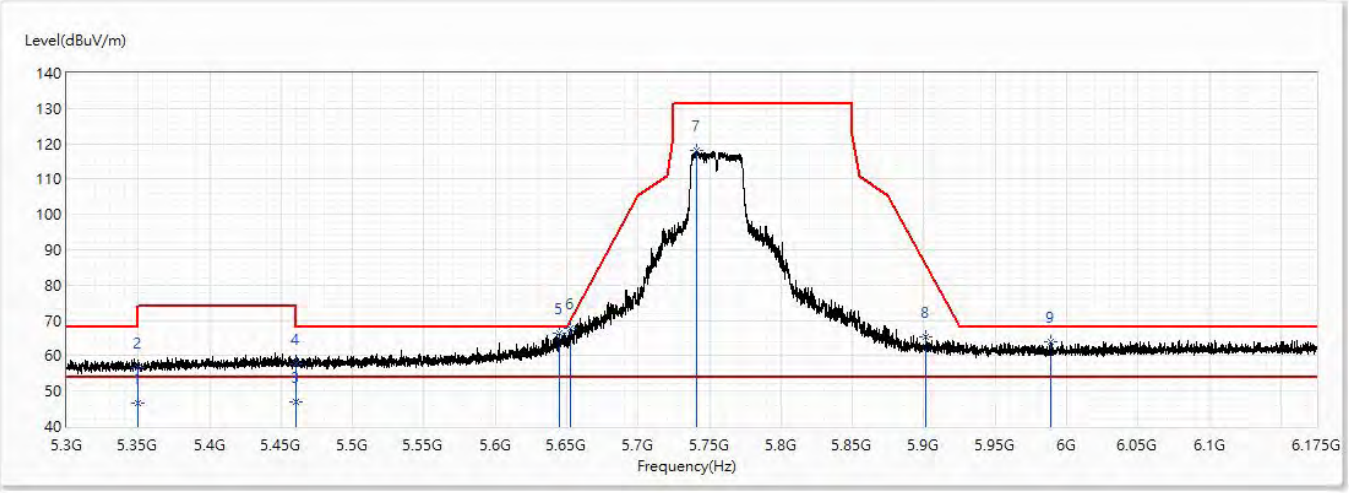


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	5350.001	46.55	54.00	-7.45	19.03	27.52	AV
2	5350.001	57.67	74.00	-16.33	30.15	27.52	PK
3	5459.999	47.12	54.00	-6.88	19.49	27.63	AV
4	5459.999	58.77	74.00	-15.23	31.14	27.63	PK
5	5460	47.12	54.00	-6.88	19.49	27.63	AV
* 6	5649.672	65.08	68.20	-3.12	36.57	28.51	PK
7	5680.297	72.83	90.66	-17.83	44.16	28.67	PK
8	5752.703	113.94	131.20	-17.26	84.86	29.08	PK
9	5915.781	64.46	75.00	-10.54	34.47	29.99	PK
10	5952.969	63.87	68.20	-4.33	33.66	30.21	PK

Note:

1. All reading above 1GHz is performed with peak measurements as necessary.
2. Emission Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.
4. The fundamental for reference only, it’s not restricted by unwanted emission limit.

Site :	CB2-H	Engineer :	Scott
Model No :	USB-AC56	Test Date :	2019/10/23
Test Voltage :	DC 5V (Power by PC)	Polarity :	Vertical
Test Mode :	Mode 1: Transmit (Dipole Antenna)		
Note :	802.11n(40M)_5755MHz_MIMO		
Environmental Condition:	Temperature ( ) : 24.6 ; Relative Humidity (%RH) : 57.3		



No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	5350.001	46.75	54.00	-7.25	19.23	27.52	AV
2	5350.001	56.72	74.00	-17.28	29.20	27.52	PK
3	5459.999	47.09	54.00	-6.91	19.46	27.63	AV
4	5459.999	57.64	74.00	-16.36	30.01	27.63	PK
* 5	5644.641	66.52	68.20	-1.68	38.05	28.47	PK
6	5652.844	67.92	70.31	-2.39	39.40	28.52	PK
7	5741.219	117.96	131.20	-13.24	88.95	29.01	PK
8	5901.125	65.52	85.83	-20.30	35.61	29.91	PK
9	5988.844	63.80	68.20	-4.40	33.40	30.40	PK

Note:

1. All reading above 1GHz is performed with peak measurements as necessary.
2. Emission Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.
4. The fundamental for reference only, it’s not restricted by unwanted emission limit.

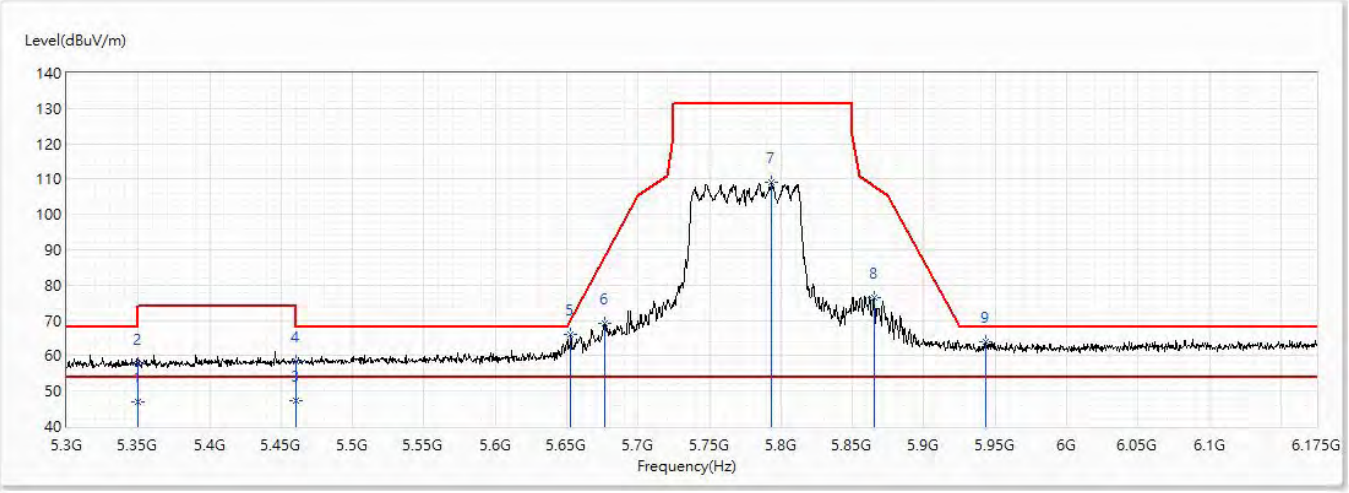
Site :	CB2-H	Engineer :	Scott
Model No :	USB-AC56	Test Date :	2019/10/23
Test Voltage :	DC 5V (Power by PC)	Polarity :	Horizontal
Test Mode :	Mode 1: Transmit (Dipole Antenna)		
Note :	802.11n(40M)_5795MHz_MIMO		
Environmental Condition:	Temperature ( ) : 24.6 ; Relative Humidity (%RH) : 57.3		

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	5350.001	46.53	54.00	-7.47	19.01	27.52	AV
2	5350.001	58.43	74.00	-15.57	30.91	27.52	PK
3	5459.999	47.19	54.00	-6.81	19.56	27.63	AV
4	5459.999	59.27	74.00	-14.73	31.64	27.63	PK
5	5639.391	63.42	68.20	-4.78	34.97	28.45	PK
6	5656.344	64.12	72.91	-8.79	35.58	28.54	PK
7	5790.766	114.83	131.20	-16.37	85.54	29.29	PK
8	5914.031	68.00	76.29	-8.29	38.02	29.98	PK
* 9	5927.156	65.85	68.20	-2.35	35.80	30.05	PK

Note:

1. All reading above 1GHz is performed with peak measurements as necessary.
2. Emission Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.
4. The fundamental for reference only, it’s not restricted by unwanted emission limit.

Site :	CB2-H	Engineer :	Scott
Model No :	USB-AC56	Test Date :	2019/10/23
Test Voltage :	DC 5V (Power by PC)	Polarity :	Horizontal
Test Mode :	Mode 1: Transmit (Dipole Antenna)		
Note :	802.11ac(80M)_5775MHz_MIMO		
Environmental Condition:	Temperature ( ) : 24.6 ; Relative Humidity (%RH) : 57.3		

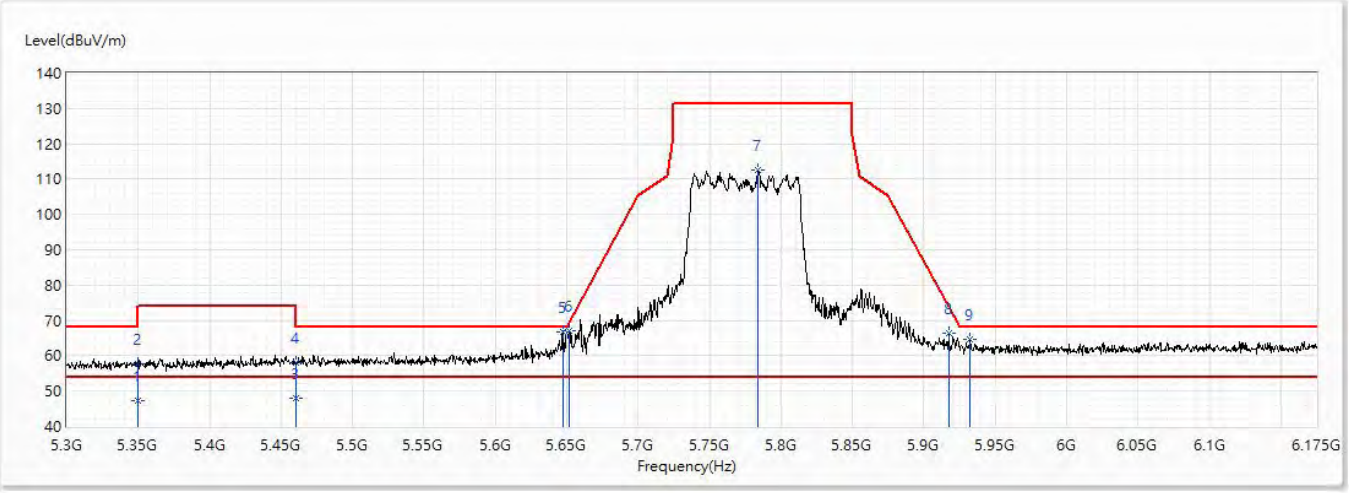


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	5350.001	46.83	54.00	-7.17	19.31	27.52	AV
2	5350.001	57.86	74.00	-16.14	30.34	27.52	PK
3	5459.999	47.24	54.00	-6.76	19.61	27.63	AV
4	5459.999	58.26	74.00	-15.74	30.63	27.63	PK
* 5	5652.625	66.12	70.15	-4.03	37.61	28.51	PK
6	5676.688	69.00	87.99	-18.99	40.34	28.66	PK
7	5793.5	108.98	131.20	-22.22	79.67	29.31	PK
8	5865.25	76.51	107.93	-31.42	46.80	29.71	PK
9	5943.125	63.89	68.20	-4.31	33.75	30.14	PK

Note:

1. All reading above 1GHz is performed with peak measurements as necessary.
2. Emission Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.
4. The fundamental for reference only, it’s not restricted by unwanted emission limit.

Site :	CB2-H	Engineer :	Scott
Model No :	USB-AC56	Test Date :	2019/10/23
Test Voltage :	DC 5V (Power by PC)	Polarity :	Vertical
Test Mode :	Mode 1: Transmit (Dipole Antenna)		
Note :	802.11ac(80M)_5775MHz_MIMO		
Environmental Condition:	Temperature ( ) : 24.6 ; Relative Humidity (%RH) : 57.3		

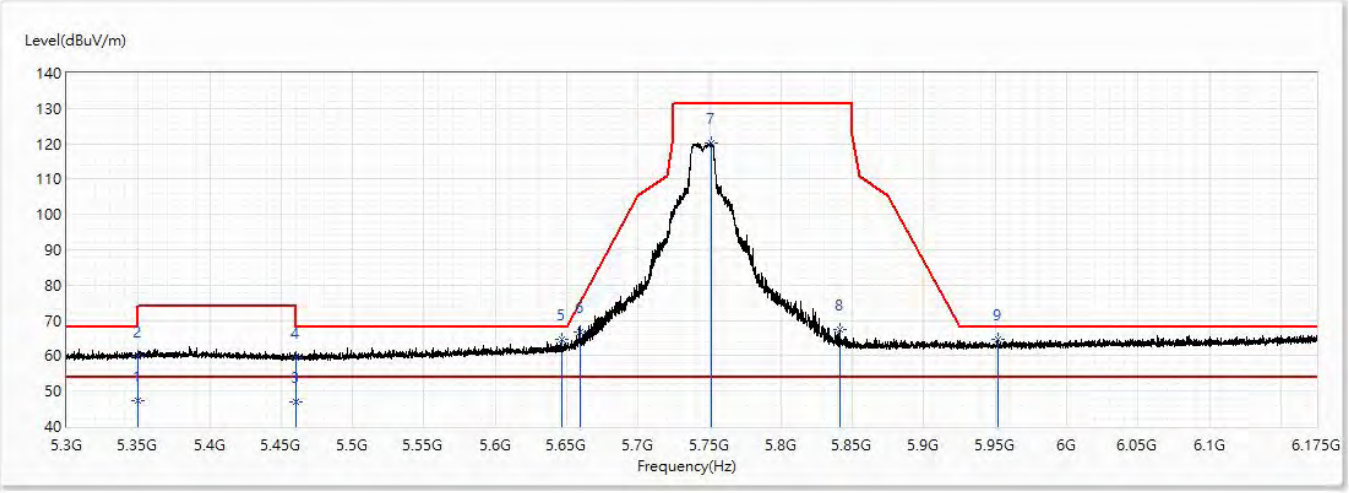


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	5350.001	47.22	54.00	-6.78	19.70	27.52	AV
2	5350.001	57.56	74.00	-16.44	30.04	27.52	PK
3	5459.999	47.83	54.00	-6.17	20.20	27.63	AV
4	5459.999	57.90	74.00	-16.10	30.27	27.63	PK
* 5	5647.375	66.76	68.20	-1.44	38.26	28.50	PK
6	5651.75	67.23	69.50	-2.27	38.72	28.51	PK
7	5783.875	112.42	131.20	-18.78	83.17	29.25	PK
8	5917.313	66.52	73.87	-7.35	36.52	30.00	PK
9	5932.625	64.75	68.20	-3.45	34.66	30.09	PK

Note:

1. All reading above 1GHz is performed with peak measurements as necessary.
2. Emission Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.
4. The fundamental for reference only, it’s not restricted by unwanted emission limit.

Site :	CB2-H	Engineer :	Scott
Model No :	USB-AC56	Test Date :	2019/10/15
Test Voltage :	DC 5V (Power by PC)	Polarity :	Horizontal
Test Mode :	Mode 2: Transmit (PIFA Antenna)		
Note :	802.11a_5745MHz_SISO		
Environmental Condition:	Temperature ( ) : 24.6 ; Relative Humidity (%RH) : 57.3		

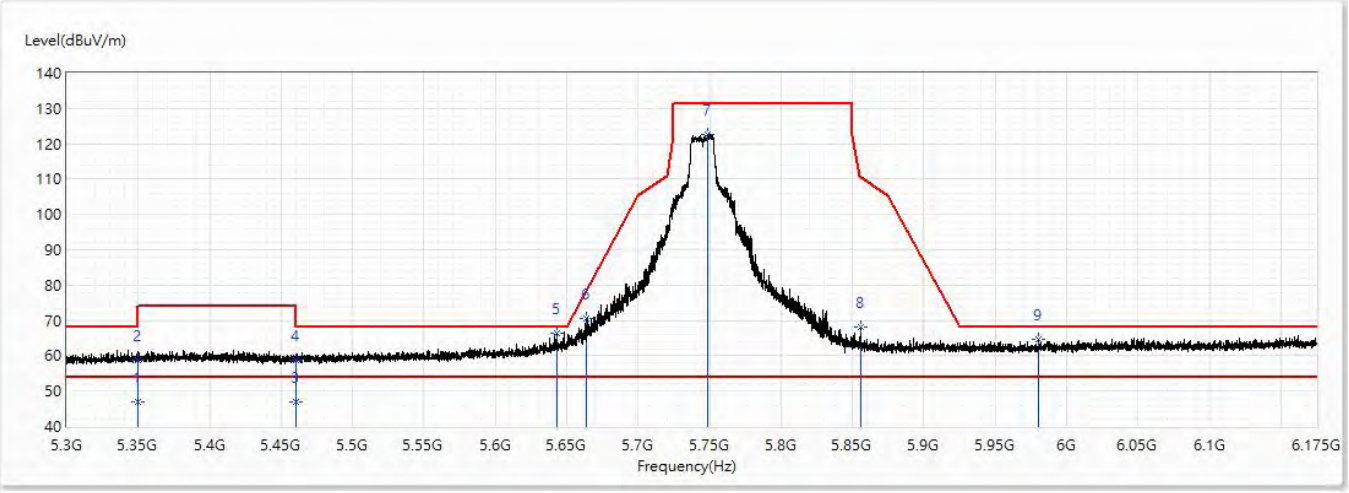


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	5350.001	47.32	54.00	-6.68	19.80	27.52	AV
2	5350.001	59.72	74.00	-14.28	32.20	27.52	PK
3	5459.99	46.79	54.00	-7.21	19.16	27.63	AV
4	5459.99	59.50	74.00	-14.50	31.87	27.63	PK
* 5	5646.172	64.79	68.20	-3.41	36.30	28.49	PK
6	5659.297	66.65	75.10	-8.46	38.09	28.56	PK
7	5751.063	120.17	131.20	-11.03	91.10	29.07	PK
8	5841.516	67.31	131.20	-63.89	37.74	29.57	PK
9	5951.547	64.52	68.20	-3.68	34.33	30.19	PK

Note:

1. All reading above 1GHz is performed with peak measurements as necessary.
2. Emission Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.
4. The fundamental for reference only, it’s not restricted by unwanted emission limit.

Site :	CB2-H	Engineer :	Scott
Model No :	USB-AC56	Test Date :	2019/10/15
Test Voltage :	DC 5V (Power by PC)	Polarity :	Vertical
Test Mode :	Mode 2: Transmit (PIFA Antenna)		
Note :	802.11a_5745MHz_SISO		
Environmental Condition:	Temperature ( ) : 24.6 ; Relative Humidity (%RH) : 57.3		

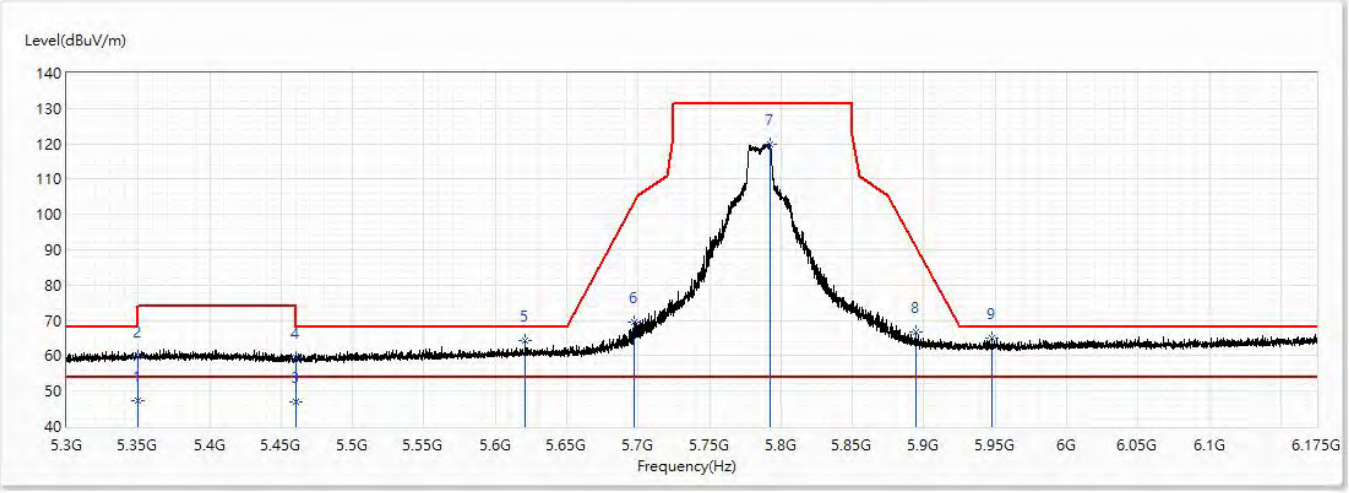


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	5350.001	47.07	54.00	-6.93	19.55	27.52	AV
2	5350.001	58.68	74.00	-15.32	31.16	27.52	PK
3	5459.99	46.91	54.00	-7.09	19.28	27.63	AV
4	5459.99	58.92	74.00	-15.08	31.29	27.63	PK
* 5	5642.781	66.36	68.20	-1.84	37.89	28.47	PK
6	5663.344	70.50	78.11	-7.60	41.92	28.58	PK
7	5748.984	122.76	131.20	-8.44	93.70	29.06	PK
8	5856.172	68.22	110.47	-42.25	38.56	29.66	PK
9	5980.531	64.74	68.20	-3.46	34.40	30.34	PK

Note:

1. All reading above 1GHz is performed with peak measurements as necessary.
2. Emission Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.
4. The fundamental for reference only, it’s not restricted by unwanted emission limit.

Site :	CB2-H	Engineer :	Scott
Model No :	USB-AC56	Test Date :	2019/10/15
Test Voltage :	DC 5V (Power by PC)	Polarity :	Horizontal
Test Mode :	Mode 2: Transmit (PIFA Antenna)		
Note :	802.11a_5785MHz_SISO		
Environmental Condition:	Temperature ( ) : 24.6 ; Relative Humidity (%RH) : 57.3		

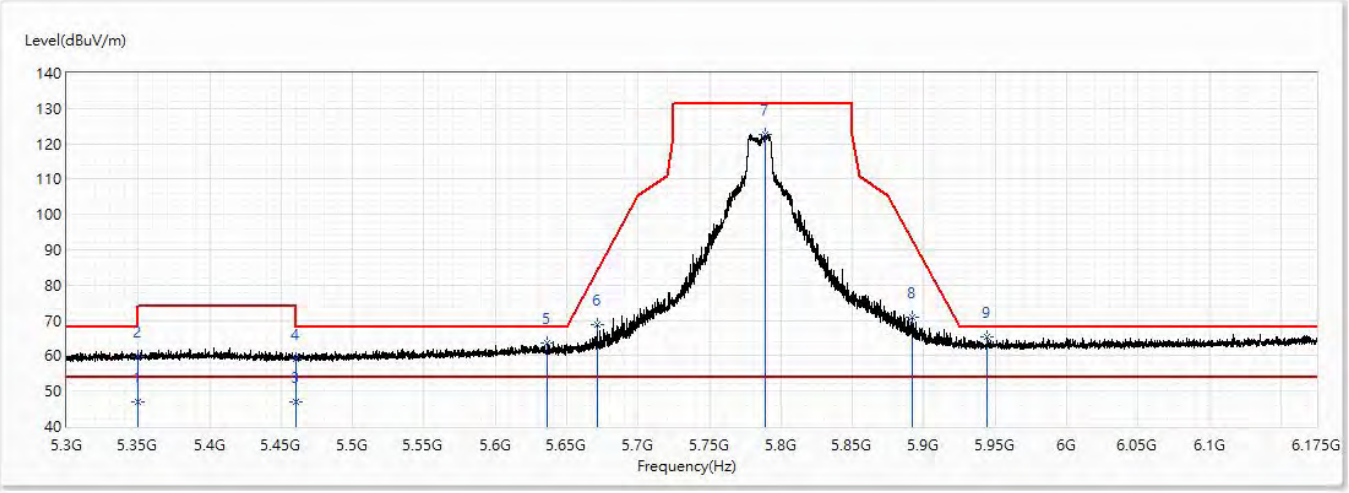


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	5350.001	47.28	54.00	-6.72	19.76	27.52	AV
2	5350.001	59.63	74.00	-14.37	32.11	27.52	PK
3	5459.99	46.97	54.00	-7.03	19.34	27.63	AV
4	5459.99	59.59	74.00	-14.41	31.96	27.63	PK
5	5621.125	64.22	68.20	-3.98	35.87	28.35	PK
6	5697.578	69.68	103.42	-33.73	40.91	28.77	PK
7	5792.078	119.93	131.20	-11.27	90.63	29.30	PK
8	5894.234	66.69	90.93	-24.24	36.82	29.87	PK
* 9	5947.391	64.84	68.20	-3.36	34.67	30.17	PK

Note:

1. All reading above 1GHz is performed with peak measurements as necessary.
2. Emission Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.
4. The fundamental for reference only, it’s not restricted by unwanted emission limit.

Site :	CB2-H	Engineer :	Scott
Model No :	USB-AC56	Test Date :	2019/10/15
Test Voltage :	DC 5V (Power by PC)	Polarity :	Vertical
Test Mode :	Mode 2: Transmit (PIFA Antenna)		
Note :	802.11a_5785MHz_SISO		
Environmental Condition:	Temperature ( ) : 24.6 ; Relative Humidity (%RH) : 57.3		

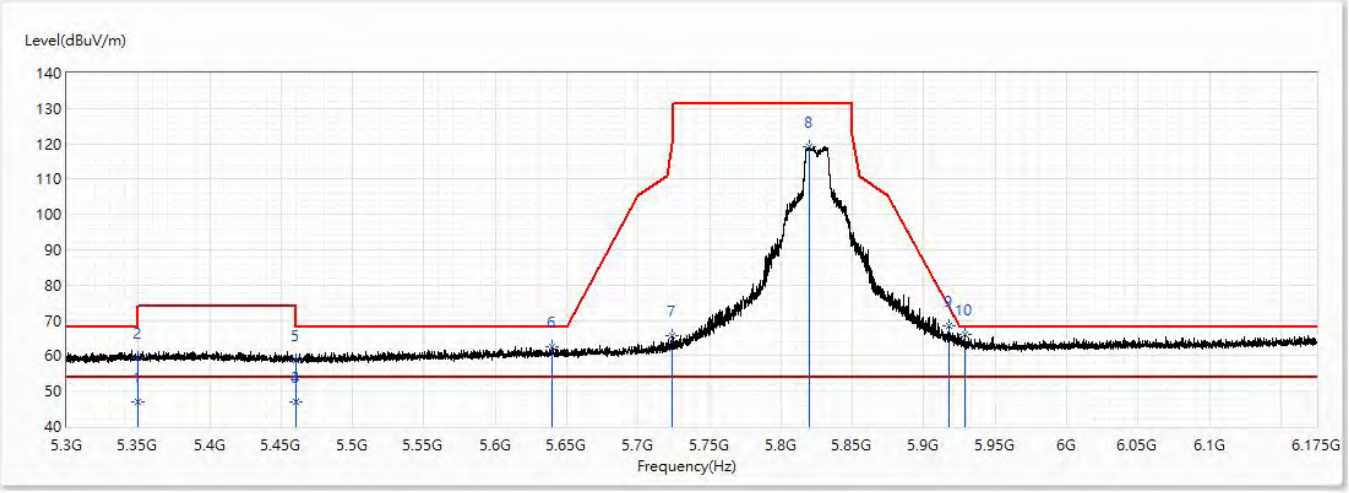


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	5350.001	47.10	54.00	-6.90	19.58	27.52	AV
2	5350.001	59.84	74.00	-14.16	32.32	27.52	PK
3	5459.99	46.86	54.00	-7.14	19.23	27.63	AV
4	5459.99	59.05	74.00	-14.95	31.42	27.63	PK
5	5636	63.54	68.20	-4.66	35.12	28.42	PK
6	5671.656	68.87	84.27	-15.40	40.24	28.63	PK
7	5789.125	122.76	131.20	-8.44	93.47	29.29	PK
8	5891.719	70.79	92.79	-22.00	40.93	29.86	PK
* 9	5944.219	65.28	68.20	-2.92	35.13	30.15	PK

Note:

1. All reading above 1GHz is performed with peak measurements as necessary.
2. Emission Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.
4. The fundamental for reference only, it’s not restricted by unwanted emission limit.

Site :	CB2-H	Engineer :	Scott
Model No :	USB-AC56	Test Date :	2019/10/15
Test Voltage :	DC 5V (Power by PC)	Polarity :	Horizontal
Test Mode :	Mode 2: Transmit (PIFA Antenna)		
Note :	802.11a_5825MHz_SISO		
Environmental Condition:	Temperature ( ) : 24.6 ; Relative Humidity (%RH) : 57.3		

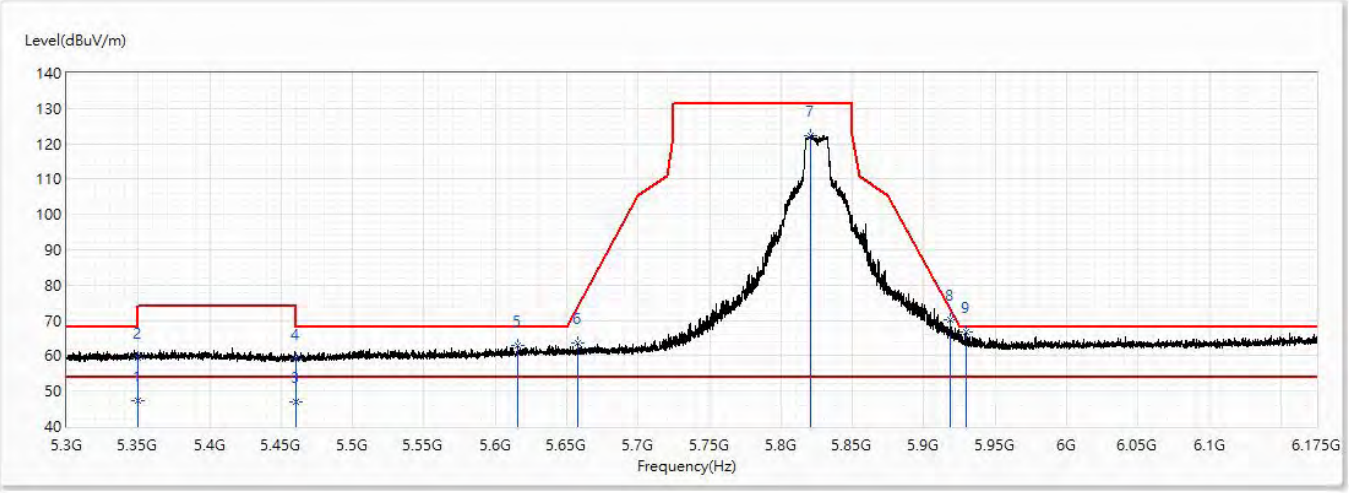


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	5350.001	47.11	54.00	-6.89	19.59	27.52	AV
2	5350.001	59.53	74.00	-14.47	32.01	27.52	PK
3	5459.99	46.93	54.00	-7.07	19.30	27.63	AV
4	5459.99	46.98	74.00	-27.02	19.35	27.63	PK
5	5459.99	58.90	74.00	-15.10	31.27	27.63	PK
6	5639.281	62.41	68.20	-5.79	33.96	28.45	PK
7	5723.828	65.85	119.53	-53.68	36.93	28.92	PK
8	5819.641	119.18	131.20	-12.02	89.72	29.46	PK
9	5917.641	68.47	73.63	-5.16	38.47	30.00	PK
* 10	5928.906	66.10	68.20	-2.10	36.04	30.06	PK

Note:

1. All reading above 1GHz is performed with peak measurements as necessary.
2. Emission Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.
4. The fundamental for reference only, it’s not restricted by unwanted emission limit.

Site :	CB2-H	Engineer :	Scott
Model No :	USB-AC56	Test Date :	2019/10/15
Test Voltage :	DC 5V (Power by PC)	Polarity :	Vertical
Test Mode :	Mode 2: Transmit (PIFA Antenna)		
Note :	802.11a_5825MHz_SISO		
Environmental Condition:	Temperature ( ) : 24.6 ; Relative Humidity (%RH) : 57.3		

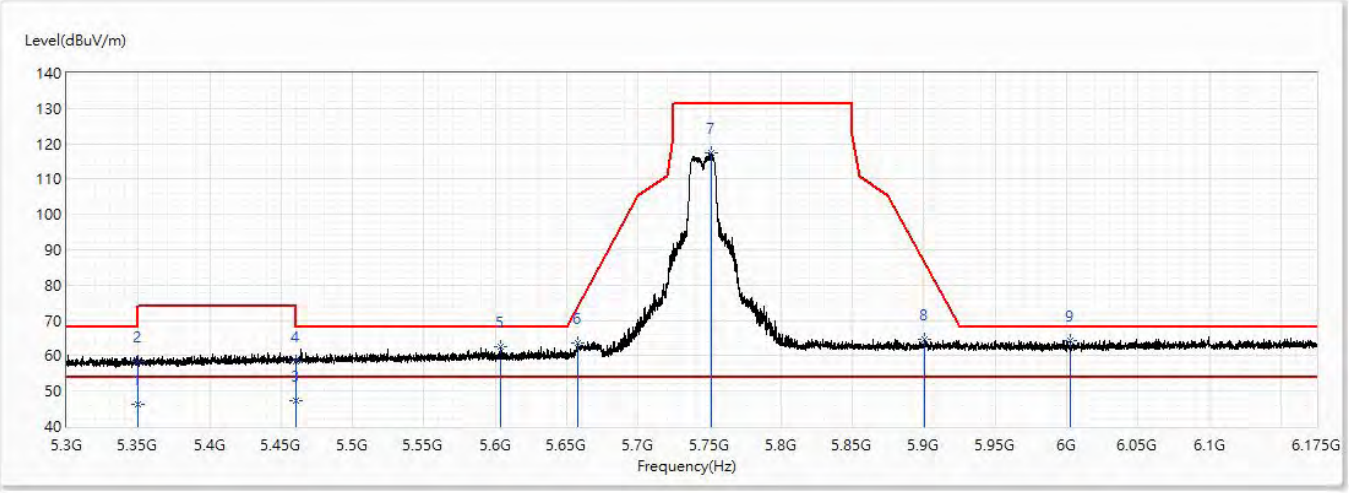


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	5350.001	47.31	54.00	-6.69	19.79	27.52	AV
2	5350.001	59.51	74.00	-14.49	31.99	27.52	PK
3	5459.99	47.02	54.00	-6.98	19.39	27.63	AV
4	5459.99	59.16	74.00	-14.84	31.53	27.63	PK
5	5615.766	62.98	68.20	-5.22	34.66	28.32	PK
6	5657.656	63.68	73.89	-10.20	35.14	28.54	PK
7	5821.063	122.32	131.20	-8.88	92.86	29.46	PK
8	5918.516	70.37	72.98	-2.61	40.37	30.00	PK
* 9	5929.234	66.82	68.20	-1.38	36.75	30.07	PK

Note:

1. All reading above 1GHz is performed with peak measurements as necessary.
2. Emission Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.
4. The fundamental for reference only, it’s not restricted by unwanted emission limit.

Site :	CB2-H	Engineer :	Scott
Model No :	USB-AC56	Test Date :	2019/10/24
Test Voltage :	DC 5V (Power by PC)	Polarity :	Horizontal
Test Mode :	Mode 2: Transmit (PIFA Antenna)		
Note :	802.11n(20M)_5745MHz_MIMO		
Environmental Condition:	Temperature ( ) : 24.6 ; Relative Humidity (%RH) : 57.3		

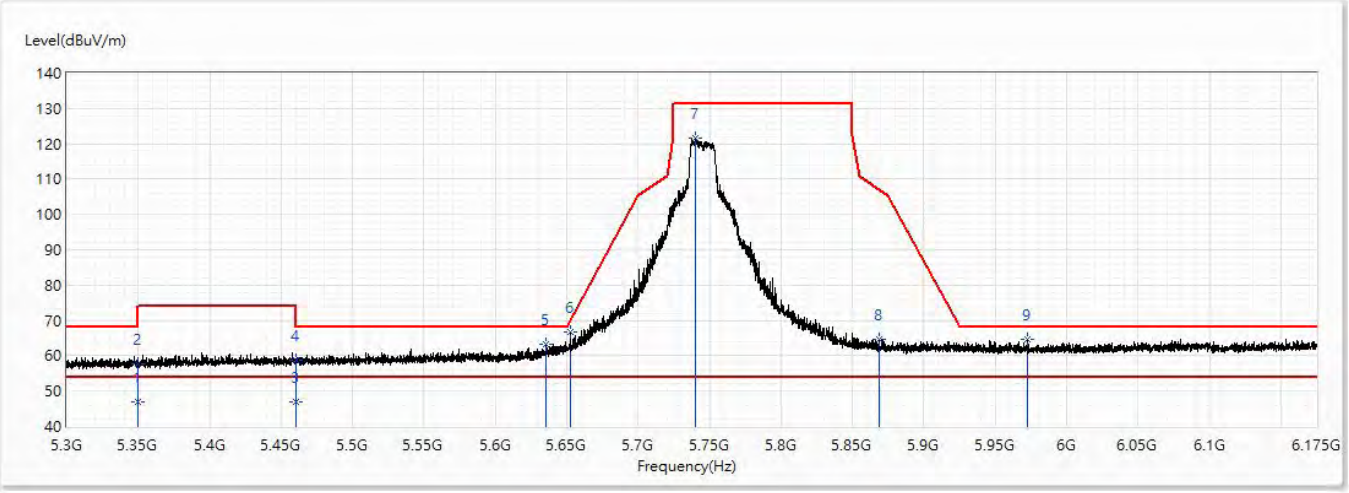


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	5350.001	46.36	54.00	-7.64	18.84	27.52	AV
2	5350.001	58.52	74.00	-15.48	31.00	27.52	PK
3	5459.999	47.17	54.00	-6.83	19.54	27.63	AV
4	5459.999	58.45	74.00	-15.55	30.82	27.63	PK
5	5603.953	62.52	68.20	-5.68	34.27	28.25	PK
6	5657.984	63.63	74.13	-10.50	35.08	28.55	PK
7	5751.172	117.48	131.20	-13.72	88.41	29.07	PK
8	5900.469	64.64	86.31	-21.68	34.73	29.91	PK
* 9	6002.734	64.19	68.20	-4.01	33.72	30.47	PK

Note:

1. All reading above 1GHz is performed with peak measurements as necessary.
2. Emission Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.
4. The fundamental for reference only, it’s not restricted by unwanted emission limit.

Site :	CB2-H	Engineer :	Scott
Model No :	USB-AC56	Test Date :	2019/10/24
Test Voltage :	DC 5V (Power by PC)	Polarity :	Vertical
Test Mode :	Mode 2: Transmit (PIFA Antenna)		
Note :	802.11n(20M)_5745MHz_MIMO		
Environmental Condition:	Temperature ( ) : 24.6 ; Relative Humidity (%RH) : 57.3		

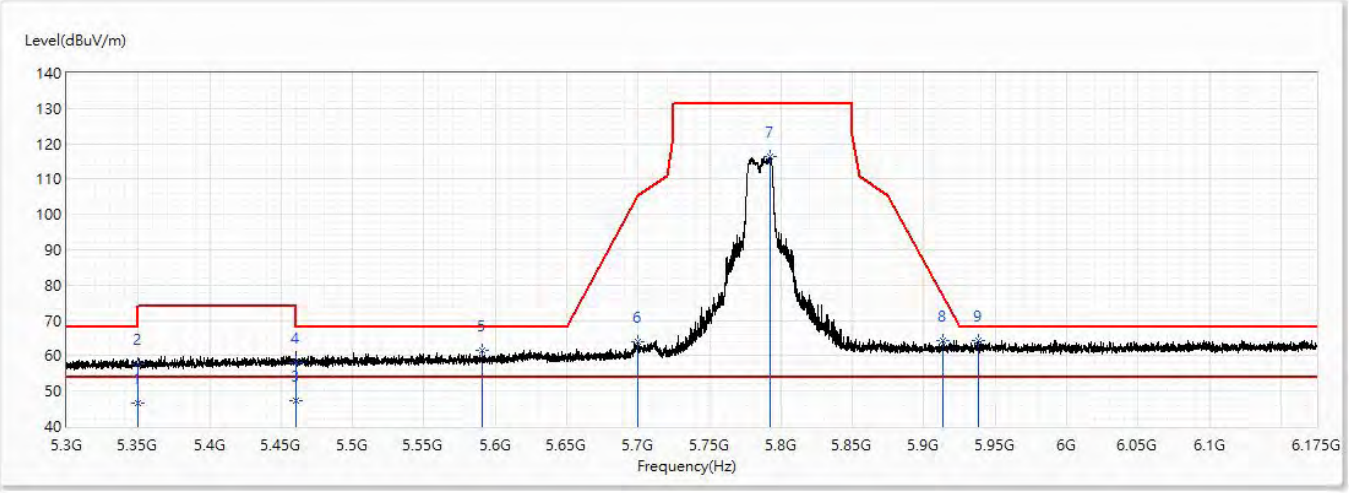


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	5350.001	47.04	54.00	-6.96	19.52	27.52	AV
2	5350.001	57.79	74.00	-16.21	30.27	27.52	PK
3	5459.999	47.11	54.00	-6.89	19.48	27.63	AV
4	5459.999	58.90	74.00	-15.10	31.27	27.63	PK
5	5635.563	63.18	68.20	-5.02	34.76	28.42	PK
* 6	5652.844	66.87	70.31	-3.44	38.35	28.52	PK
7	5740.125	121.68	131.20	-9.52	92.67	29.01	PK
8	5868.859	64.50	106.92	-42.42	34.78	29.72	PK
9	5972.328	64.62	68.20	-3.58	34.32	30.30	PK

Note:

1. All reading above 1GHz is performed with peak measurements as necessary.
2. Emission Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.
4. The fundamental for reference only, it’s not restricted by unwanted emission limit.

Site :	CB2-H	Engineer :	Scott
Model No :	USB-AC56	Test Date :	2019/10/24
Test Voltage :	DC 5V (Power by PC)	Polarity :	Horizontal
Test Mode :	Mode 2: Transmit (PIFA Antenna)		
Note :	802.11n(20M)_5785MHz_MIMO		
Environmental Condition:	Temperature ( ) : 24.6 ; Relative Humidity (%RH) : 57.3		



No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	5350.001	46.55	54.00	-7.45	19.03	27.52	AV
2	5350.001	57.63	74.00	-16.37	30.11	27.52	PK
3	5459.999	47.45	54.00	-6.55	19.82	27.63	AV
4	5459.999	58.11	74.00	-15.89	30.48	27.63	PK
5	5590.938	61.37	68.20	-6.83	33.20	28.17	PK
6	5699.766	63.83	105.03	-41.20	35.04	28.79	PK
7	5792.297	116.40	131.20	-14.80	87.10	29.30	PK
8	5913.703	64.15	76.53	-12.39	34.18	29.97	PK
* 9	5938.313	64.26	68.20	-3.94	34.14	30.12	PK

Note:

1. All reading above 1GHz is performed with peak measurements as necessary.
2. Emission Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.
4. The fundamental for reference only, it’s not restricted by unwanted emission limit.

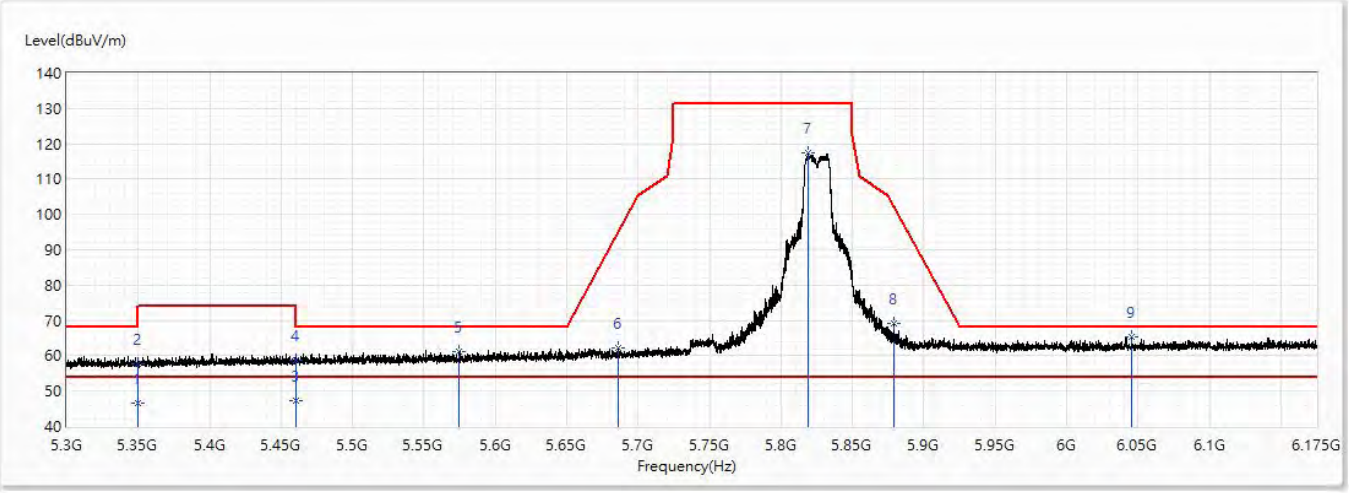
Site :	CB2-H	Engineer :	Scott
Model No :	USB-AC56	Test Date :	2019/10/24
Test Voltage :	DC 5V (Power by PC)	Polarity :	Vertical
Test Mode :	Mode 2: Transmit (PIFA Antenna)		
Note :	802.11n(20M)_5785MHz_MIMO		
Environmental Condition:	Temperature ( ) : 24.6 ; Relative Humidity (%RH) : 57.3		

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	5350.001	46.60	54.00	-7.40	19.08	27.52	AV
2	5350.001	57.16	74.00	-16.84	29.64	27.52	PK
3	5459.999	47.60	54.00	-6.40	19.97	27.63	AV
4	5459.999	58.34	74.00	-15.66	30.71	27.63	PK
5	5647.484	62.62	68.20	-5.58	34.12	28.50	PK
6	5678.109	65.89	89.04	-23.15	37.23	28.66	PK
7	5791.531	121.30	131.20	-9.90	92.01	29.29	PK
8	5901.672	66.06	85.42	-19.37	36.15	29.91	PK
* 9	5945.094	64.37	68.20	-3.83	34.21	30.16	PK

Note:

1. All reading above 1GHz is performed with peak measurements as necessary.
2. Emission Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.
4. The fundamental for reference only, it’s not restricted by unwanted emission limit.

Site :	CB2-H	Engineer :	Scott
Model No :	USB-AC56	Test Date :	2019/10/24
Test Voltage :	DC 5V (Power by PC)	Polarity :	Horizontal
Test Mode :	Mode 2: Transmit (PIFA Antenna)		
Note :	802.11n(20M)_5825MHz_MIMO		
Environmental Condition:	Temperature ( ) : 24.6 ; Relative Humidity (%RH) : 57.3		

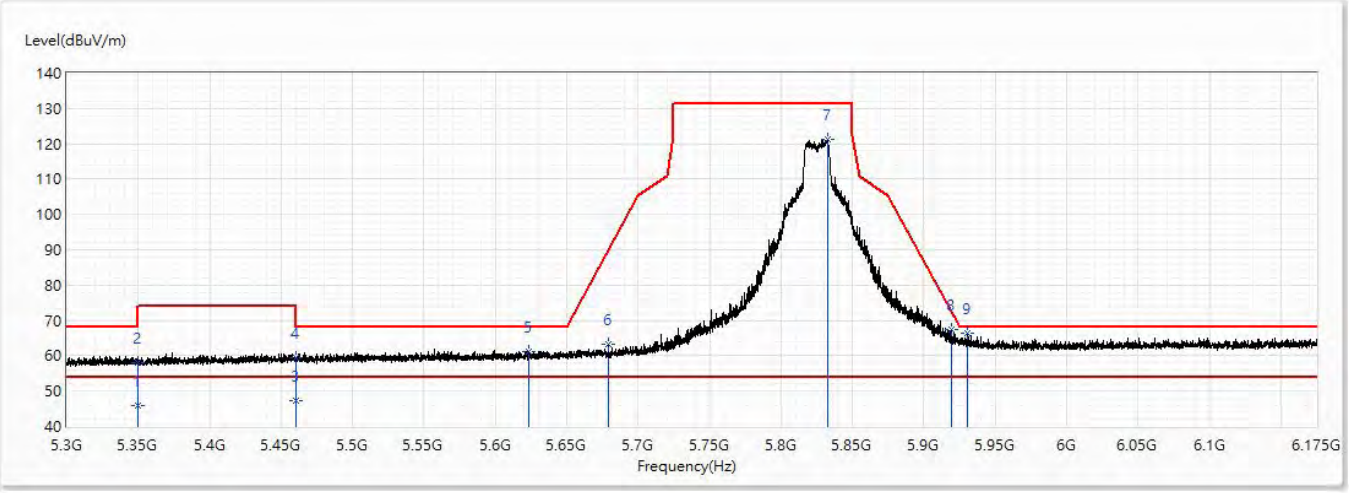


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	5350.001	46.47	54.00	-7.53	18.95	27.52	AV
2	5350.001	57.74	74.00	-16.26	30.22	27.52	PK
3	5459.999	47.28	54.00	-6.72	19.65	27.63	AV
4	5459.999	58.87	74.00	-15.13	31.24	27.63	PK
5	5574.531	61.31	68.20	-6.89	33.23	28.08	PK
6	5685.656	62.18	94.62	-32.44	33.48	28.70	PK
7	5819.313	117.28	131.20	-13.92	87.83	29.45	PK
8	5879.031	69.29	102.21	-32.91	39.51	29.78	PK
* 9	6045.391	65.22	68.20	-2.98	34.51	30.71	PK

Note:

1. All reading above 1GHz is performed with peak measurements as necessary.
2. Emission Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.
4. The fundamental for reference only, it’s not restricted by unwanted emission limit.

Site :	CB2-H	Engineer :	Scott
Model No :	USB-AC56	Test Date :	2019/10/24
Test Voltage :	DC 5V (Power by PC)	Polarity :	Vertical
Test Mode :	Mode 2: Transmit (PIFA Antenna)		
Note :	802.11n(20M)_5785MHz_MIMO		
Environmental Condition:	Temperature ( ) : 24.6 ; Relative Humidity (%RH) : 57.3		

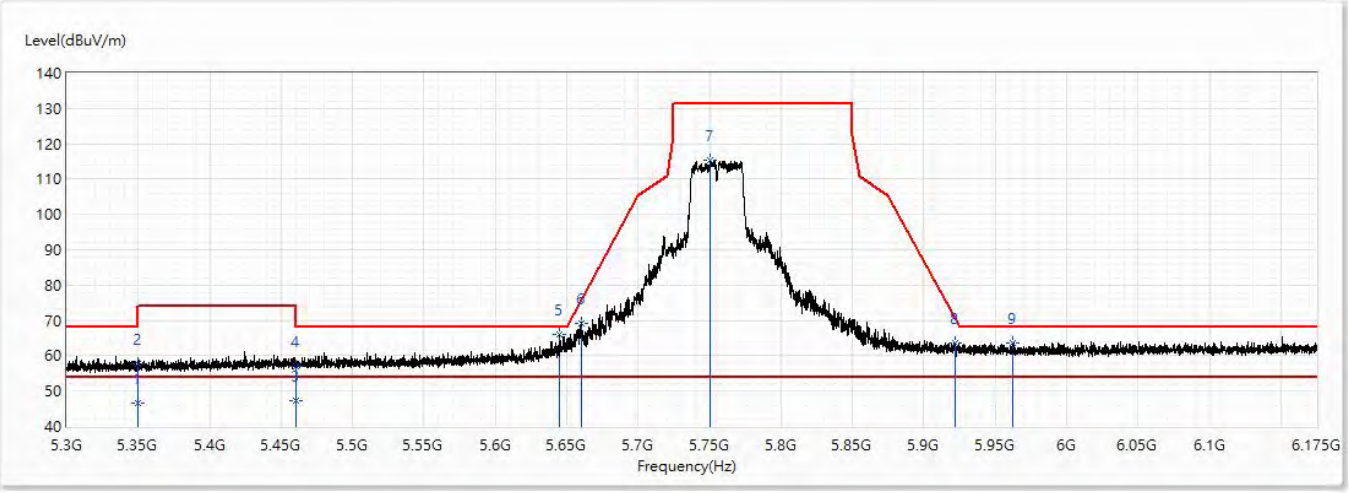


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	5350.001	46.06	54.00	-7.94	18.54	27.52	AV
2	5350.001	58.03	74.00	-15.97	30.51	27.52	PK
3	5459.999	47.26	54.00	-6.74	19.63	27.63	AV
4	5459.999	59.28	74.00	-14.72	31.65	27.63	PK
5	5623.641	61.07	68.20	-7.13	32.71	28.36	PK
6	5678.875	63.28	89.61	-26.32	34.61	28.67	PK
7	5832.328	121.27	131.20	-9.93	91.74	29.53	PK
8	5918.953	67.51	72.66	-5.15	37.51	30.00	PK
* 9	5930.109	66.22	68.20	-1.98	36.15	30.07	PK

Note:

1. All reading above 1GHz is performed with peak measurements as necessary.
2. Emission Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.
4. The fundamental for reference only, it’s not restricted by unwanted emission limit.

Site :	CB2-H	Engineer :	Scott
Model No :	USB-AC56	Test Date :	2019/10/24
Test Voltage :	DC 5V (Power by PC)	Polarity :	Horizontal
Test Mode :	Mode 2: Transmit (PIFA Antenna)		
Note :	802.11n(40M)_5755MHz_MIMO		
Environmental Condition:	Temperature ( ) : 24.6 ; Relative Humidity (%RH) : 57.3		

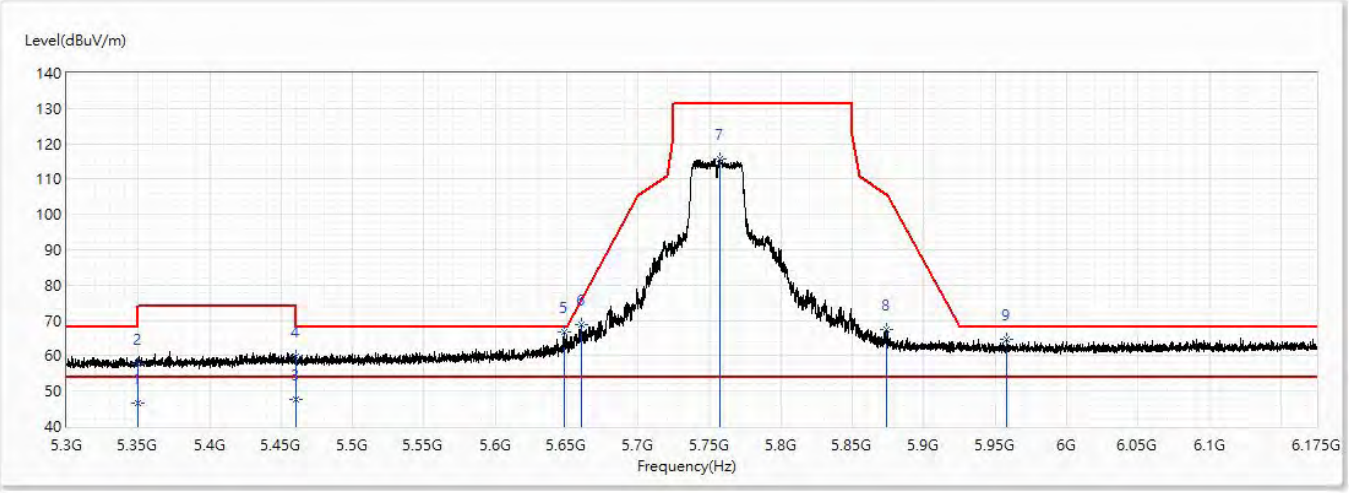


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	5350.001	46.62	54.00	-7.38	19.10	27.52	AV
2	5350.001	57.75	74.00	-16.25	30.23	27.52	PK
3	5459.999	47.38	54.00	-6.62	19.75	27.63	AV
4	5459.999	57.16	74.00	-16.84	29.53	27.63	PK
* 5	5644.75	66.03	68.20	-2.17	37.56	28.47	PK
6	5660.063	69.33	75.67	-6.34	40.77	28.56	PK
7	5750.297	115.25	131.20	-15.95	86.18	29.07	PK
8	5922.016	63.50	70.40	-6.90	33.47	30.03	PK
9	5962.594	63.73	68.20	-4.47	33.48	30.25	PK

Note:

1. All reading above 1GHz is performed with peak measurements as necessary.
2. Emission Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.
4. The fundamental for reference only, it’s not restricted by unwanted emission limit.

Site :	CB2-H	Engineer :	Scott
Model No :	USB-AC56	Test Date :	2019/10/24
Test Voltage :	DC 5V (Power by PC)	Polarity :	Vertical
Test Mode :	Mode 2: Transmit (PIFA Antenna)		
Note :	802.11n(40M)_5755MHz_MIMO		
Environmental Condition:	Temperature ( ) : 24.6 ; Relative Humidity (%RH) : 57.3		



No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	5350.001	46.77	54.00	-7.23	19.25	27.52	AV
2	5350.001	57.63	74.00	-16.37	30.11	27.52	PK
3	5459.999	47.64	54.00	-6.36	20.01	27.63	AV
4	5459.999	59.92	74.00	-14.08	32.29	27.63	PK
* 5	5648.031	66.68	68.20	-1.52	38.18	28.50	PK
6	5660.063	68.69	75.67	-6.96	40.13	28.56	PK
7	5757.516	115.55	131.20	-15.65	86.44	29.11	PK
8	5874.219	67.47	105.42	-37.95	37.72	29.75	PK
9	5958	64.55	68.20	-3.65	34.33	30.22	PK

Note:

1. All reading above 1GHz is performed with peak measurements as necessary.
2. Emission Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.
4. The fundamental for reference only, it’s not restricted by unwanted emission limit.

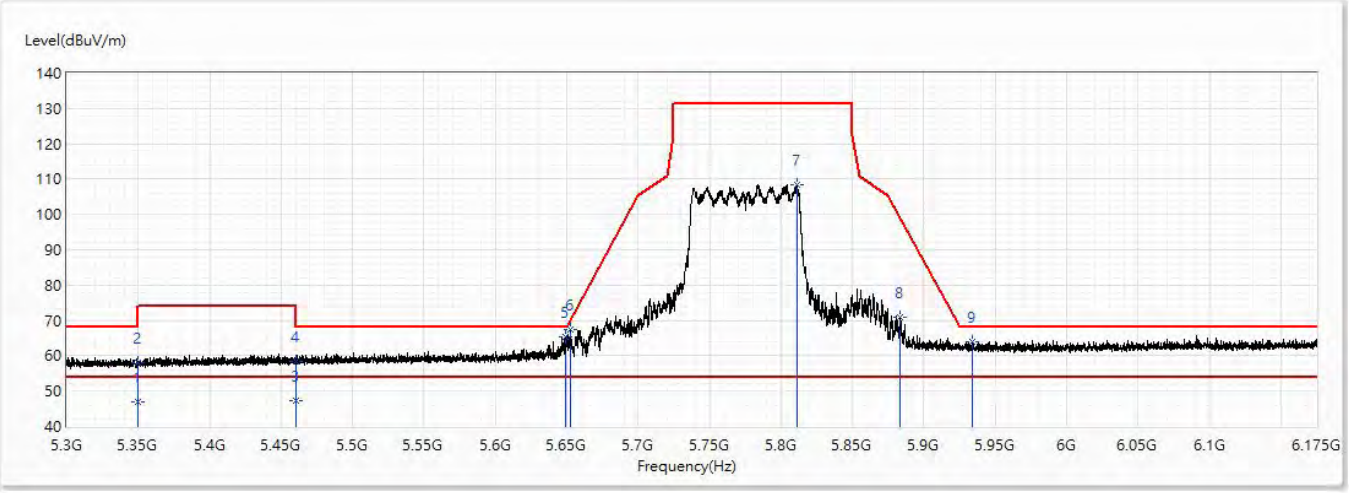
Site :	CB2-H	Engineer :	Scott
Model No :	USB-AC56	Test Date :	2019/10/24
Test Voltage :	DC 5V (Power by PC)	Polarity :	Horizontal
Test Mode :	Mode 2: Transmit (PIFA Antenna)		
Note :	802.11n(40M)_5795MHz_MIMO		
Environmental Condition:	Temperature ( ) : 24.6 ; Relative Humidity (%RH) : 57.3		

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	5350.001	47.33	54.00	-6.67	19.81	27.52	AV
2	5350.001	57.52	74.00	-16.48	30.00	27.52	PK
3	5459.999	47.01	54.00	-6.99	19.38	27.63	AV
4	5459.999	58.94	74.00	-15.06	31.31	27.63	PK
5	5644.969	61.49	68.20	-6.71	33.02	28.47	PK
6	5668.375	63.12	81.84	-18.71	34.51	28.61	PK
7	5810.016	113.74	131.20	-17.46	84.33	29.41	PK
8	5913.813	66.18	76.45	-10.27	36.21	29.97	PK
* 9	5981.406	64.71	68.20	-3.49	34.35	30.36	PK

Note:

1. All reading above 1GHz is performed with peak measurements as necessary.
2. Emission Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.
4. The fundamental for reference only, it’s not restricted by unwanted emission limit.

Site :	CB2-H	Engineer :	Scott
Model No :	USB-AC56	Test Date :	2019/10/24
Test Voltage :	DC 5V (Power by PC)	Polarity :	Horizontal
Test Mode :	Mode 2: Transmit (PIFA Antenna)		
Note :	802.11ac(80M)_5775MHz_MIMO		
Environmental Condition:	Temperature ( ) : 24.6 ; Relative Humidity (%RH) : 57.3		

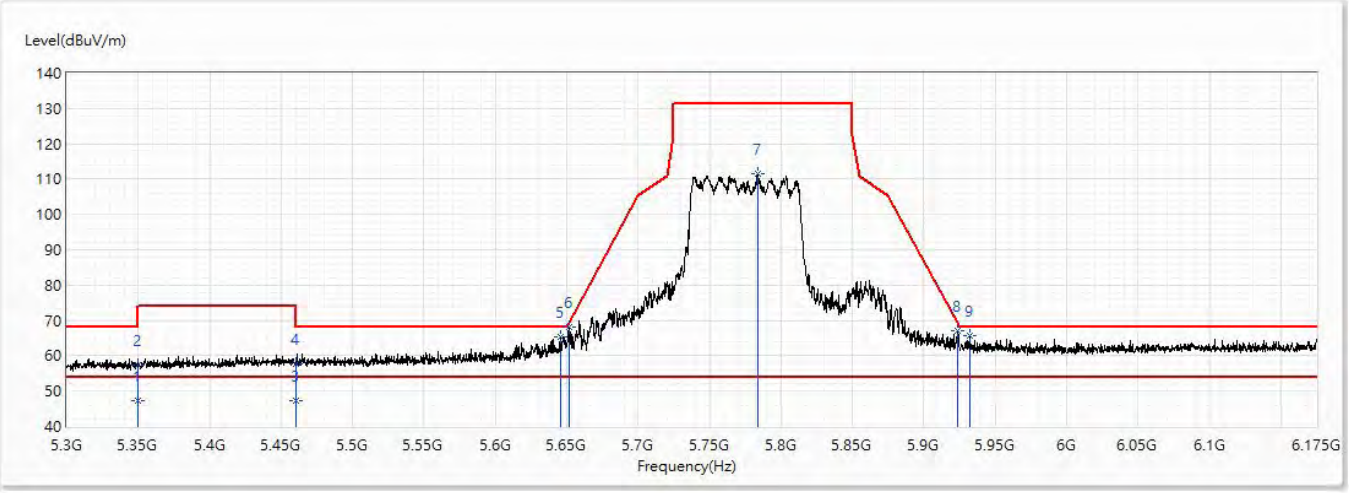


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	5350.001	46.79	54.00	-7.21	19.27	27.52	AV
2	5350.001	57.99	74.00	-16.01	30.47	27.52	PK
3	5459.999	47.41	54.00	-6.59	19.78	27.63	AV
4	5459.999	58.23	74.00	-15.77	30.60	27.63	PK
* 5	5649.344	65.25	68.20	-2.95	36.75	28.50	PK
6	5652.844	67.33	70.31	-2.99	38.81	28.52	PK
7	5811.219	108.56	131.20	-22.64	79.15	29.41	PK
8	5883.078	70.89	99.20	-28.31	41.09	29.80	PK
9	5934.156	63.88	68.20	-4.32	33.79	30.09	PK

Note:

1. All reading above 1GHz is performed with peak measurements as necessary.
2. Emission Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.
4. The fundamental for reference only, it’s not restricted by unwanted emission limit.

Site :	CB2-H	Engineer :	Scott
Model No :	USB-AC56	Test Date :	2019/10/24
Test Voltage :	DC 5V (Power by PC)	Polarity :	Vertical
Test Mode :	Mode 2: Transmit (PIFA Antenna)		
Note :	802.11ac(80M)_5775MHz_MIMO		
Environmental Condition:	Temperature ( ) : 24.6 ; Relative Humidity (%RH) : 57.3		



No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	5350.001	47.24	54.00	-6.76	19.72	27.52	AV
2	5350.001	57.36	74.00	-16.64	29.84	27.52	PK
3	5459.999	47.39	54.00	-6.61	19.76	27.63	AV
4	5459.999	57.88	74.00	-16.12	30.25	27.63	PK
5	5646.063	65.39	68.20	-2.81	36.90	28.49	PK
* 6	5651.313	68.01	69.18	-1.16	39.50	28.51	PK
7	5783.875	111.56	131.20	-19.64	82.31	29.25	PK
8	5923.656	66.92	69.19	-2.27	36.89	30.03	PK
9	5931.969	65.72	68.20	-2.48	35.64	30.08	PK

Note:

1. All reading above 1GHz is performed with peak measurements as necessary.
2. Emission Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.
4. The fundamental for reference only, it’s not restricted by unwanted emission limit.