

FCC Test Report

Product Name : Multi-Service Modular Router
Brand Name : BEC, Billion
Model No. : BEC MX-600
FCC ID : QI3BEC-MX600

Applicant : Billion Electric Co., Ltd.
Address : 8F., No.192, Sec. 2, Zhongxing Rd., Xindian
Dist., New Taipei City 231, Taiwan (R.O.C.)

Date of Receipt : Aug. 27, 2021
Issued Date : Nov. 04, 2021
Report No. : 2181152R-RFUSWL5V01
Report Version : V1.0



The test results relate only to the samples tested.

The test results shown in the test report are traceable to the national/international standard through the calibration of the equipment and evaluated measurement uncertainty herein.

This report must not be used to claim product endorsement by TAF or any agency of the government.

Measurement uncertainties evaluated for each testing system and associated connections are given here to provide the system information for reference. Compliance determinations do not take into account measurement uncertainties for each testing system, but are based on the results of the compliance measurement.

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Test Report Certification



Product Name : Multi-Service Modular Router
 Applicant : Billion Electric Co., Ltd.
 Address : 8F., No.192, Sec. 2, Zhongxing Rd., Xindian Dist., New Taipei City 231, Taiwan (R.O.C.)
 Manufacturer : Billion Electric Co., Ltd.
 Address : 8F., No.192, Sec. 2, Zhongxing Rd., Xindian Dist., New Taipei City 231, Taiwan (R.O.C.)
 Brand Name : BEC, Billion
 Model No. : BEC MX-600
 FCC ID : QI3BEC-MX600
 EUT Voltage : DC 12V or DC 15V (adapter)
 Testing Voltage : AC 120V/60Hz
 Applicable Standard : FCC CFR Title 47 Part 15 Subpart E Section 15.407
 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 : *Amelia Wu*

(Amelia Wu / Project Specialist)

Approved By : *Louis Hsu*

(Louis Hsu / Deputy Manager)

The test results relate only to the samples tested.
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Revision History

Version	Description	Issued Date
V1.0	Initial issue of report	Nov. 04, 2021

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1. General Information

1.1. EUT Description

Product Name	Multi-Service Modular Router	
Brand Name	BEC, Billion	
Model No.	BEC MX-600	
Frequency Range / Channel Number	IEEE 802.11a / IEEE 802.11n (20 MHz) / IEEE 802.11ac (20 MHz)	5180 ~ 5240 MHz / 4 Channels 5745 ~ 5825 MHz / 5 Channels
	IEEE 802.11n (40 MHz) / IEEE 802.11ac (40 MHz) /	5190 ~ 5230 MHz / 2 Channels 5755 ~ 5795 MHz / 2 Channels
	IEEE 802.11ac (80 MHz)	5210 MHz / 1 Channel 5775 MHz / 1 Channel
Type of Modulation	IEEE 802.11a/n/ac	OFDM
Data Rate	IEEE 802.11a	6, 9, 12, 18, 24, 36, 48, 54 Mbps
	IEEE 802.11n	Support a subset of the combination of GI, MCS 0 ~ MCS 15 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

Accessories Information				
No.	Equipment Name	Brand Name	Model No.	Rating
1	Adapter	BILLION	BA024-150160AXU	INPUT: AC 100-240V, 0.7A, 50/60Hz OUTPUT: DC 15V, 1.6A
No.	Equipment Name	Description		
2	RJ-45 Cable	Non-Shielded, 1.8m		

The difference for each model is shown as below:

Brand Name	Description
BEC	There is nothing different of two brand names, just for different marketing use.
Billion	

Antenna Information				
Ant.	Brand Name	Model No.	Type	Antenna Gain (dBi)
0	Master	98612PRSX000	Dipole	3.54
1	Master	98612PRSX000	Dipole	3.54

Ant.	Maximum Antenna Gain (dBi)		Directional Gain (dBi)	
	U-NII 1	U-NII 3	U-NII 1	U-NII 3
0~1	3.54	3.54	6.55	6.55

$$\text{Directional Gain} = 10 \log [(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / N_{\text{Ant}}]$$

For IEEE 802.11a Mode: (1TX, 1RX)

The EUT supports the antenna with TX and RX diversity functions.

Both Ant. 0 and Ant. 1 support transmit and receive functions, but only one of them will be used at one time.

The Ant. 0 generated the worst case, so it was selected to test and record in the report.

For IEEE 802.11n/ac Mode: (2TX, 2RX)

Both Ant. 0 and Ant. 1 can be used as transmitting/receiving antennas, and they can transmit/receive signal simultaneously.

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

Working Frequency of Each Channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
36	5180 MHz	40	5200 MHz	44	5220 MHz	48	5240 MHz
149	5745 MHz	153	5765 MHz	157	5785 MHz	161	5805 MHz
165	5825 MHz	-	-	-	-	-	-

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

Working Frequency of Each Channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
38	5190 MHz	46	5230 MHz	151	5755 MHz	159	5795 MHz

IEEE 802.11ac (80 MHz)

Working Frequency of Each Channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
42	5210 MHz	155	5775 MHz	-	-	-	-

Note:

1. 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.
2. The above EUT information is declared by the manufacturer.

1.2. 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				
Test Items	Test Mode	Modulation	Channel	Antenna	Result
AC Power Line Conducted Emission	Mode 1	11ac (80 MHz)	42	0+1	Pass
Emission Bandwidth	Mode 1	11a	36/44/48/149/157/165	0/1	Pass
		11ac (20 MHz)	36/44/48/149/157/165	0/1	Pass
		11ac (40 MHz)	38/46/151/159	0/1	Pass
		11ac (80 MHz)	42/155	0/1	Pass
Maximum Conducted Output Power	Mode 1	11a	36/44/48/149/157/165	0	Pass
		11ac (20 MHz)	36/44/48/149/157/165	0+1	Pass
		11ac (40 MHz)	38/46/151/159	0+1	Pass
		11ac (80 MHz)	42/155	0+1	Pass
Maximum Power Spectral Density	Mode 1	11a	36/44/48/149/157/165	0	Pass
		11ac (20 MHz)	36/44/48/149/157/165	0+1	Pass
		11ac (40 MHz)	38/46/151/159	0+1	Pass
		11ac (80 MHz)	42/155	0+1	Pass
Radiated Emission Below 1 GHz	Mode 1	11ac (80 MHz)	42	0+1	Pass
Radiated Emission Above 1 GHz	Mode 1	11a	36/44/48/149/157/165	0	Pass
		11ac (20 MHz)	36/44/48/149/157/165	0+1	Pass
		11ac (40 MHz)	38/46/151/159	0+1	Pass
		11ac (80 MHz)	42/155	0+1	Pass
Radiated Emission Band Edge	Mode 1	11a	36/44/48/149/157/165	0	Pass
	Mode 1	11ac (20 MHz)	36/44/48/149/157/165	0+1	Pass
	Mode 1	11ac (40 MHz)	38/46/151/159	0+1	Pass
	Mode 1	11ac (80 MHz)	42/155	0+1	Pass

Note:

- Determining compliance shall be based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.
- The worst case of data rate for 802.11a is 6 Mbps, for 802.11ac (20 MHz)/802.11ac (40 MHz)/802.11ac (80 MHz) are MCS 0, Nss1.
- For below 1 GHz radiated emission and AC Power Line Conducted Emission have performed all modes of operation were investigated and the worst-case emissions are reported.
- The EUT was performed at X axis and Z axis position for radiated emission and band edge tests. The worst case was found at X axis, so the measurement will follow this same test configuration.

5. The EUT could be applied with WLAN 2.4 GHz function, WLAN 5 GHz function and WWAN LTE function; therefore Co-location Maximum Permissible Exposure (Please refer to DEKRA Report No.: 2181152R-RFUSMPEV02) and Radiated Emission Co-location (Please refer to Appendix A) tests are added for simultaneously transmit between WLAN 2.4 GHz function, WLAN 5 GHz function and WWAN LTE function.

1.3. Comments and Remarks

The product specification and testing instructions for the EUT declared in the report are provided by the manufacturer who will take all responsibilities for the accuracy.

1.4. Tested System Details

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

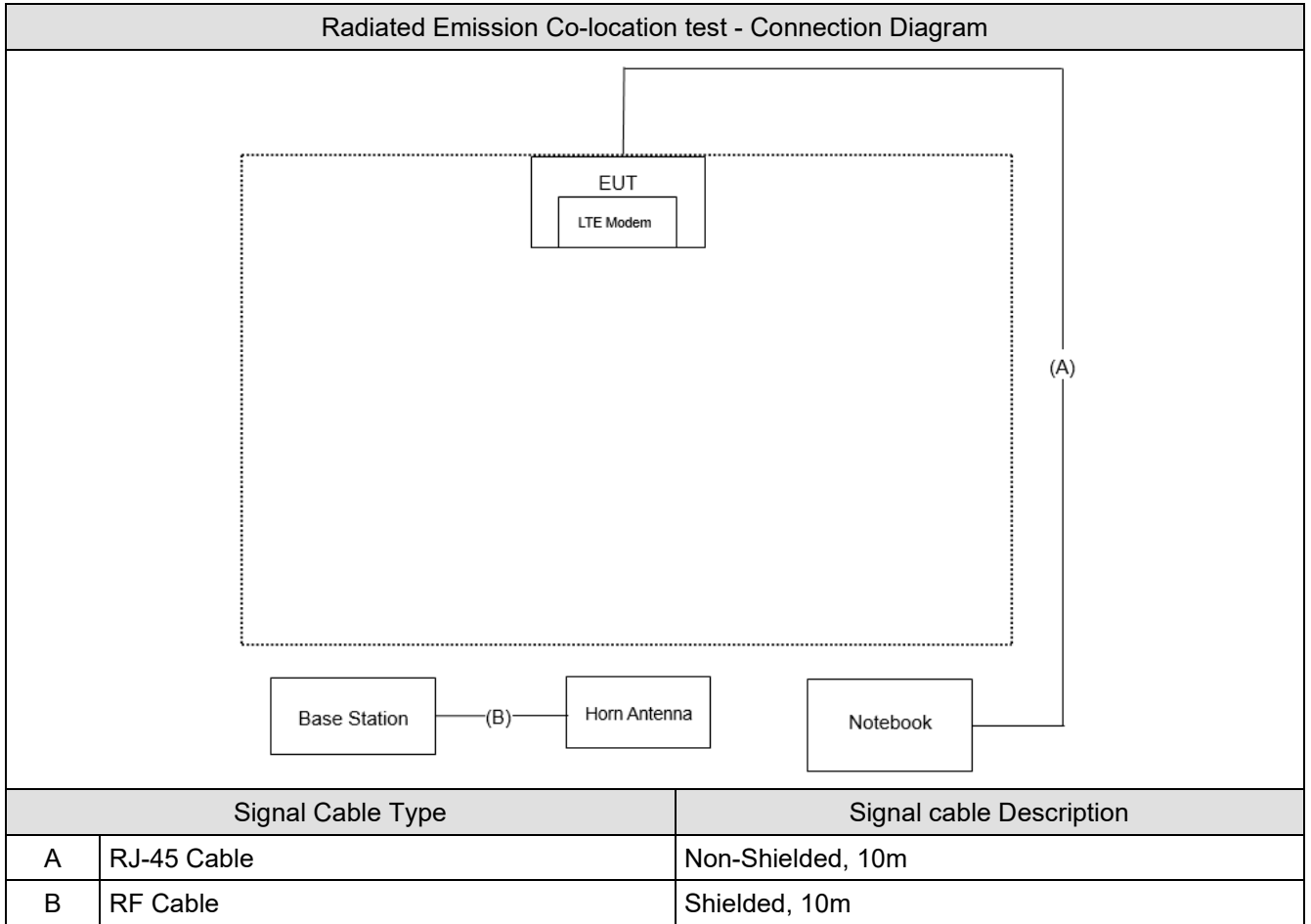
For Radiated Emission Co-location test:

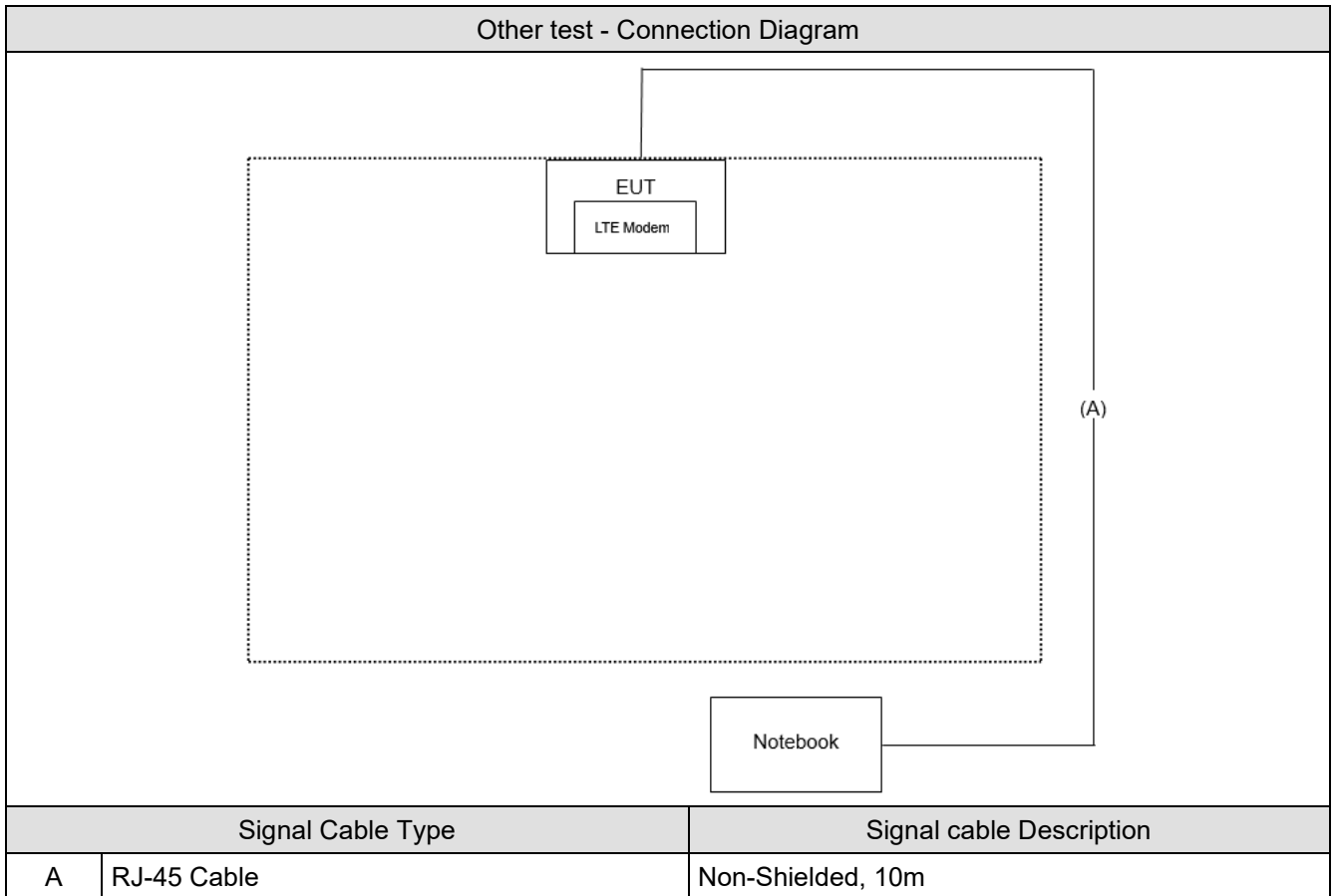
	Product	Manufacturer	Model No.	Serial No.	FCC ID
1	LTE Modem	BEC	MX-100UG	N/A	Contains module FCC ID: RI7LM960
2	Notebook	DELL	Latitude E6320	8611271467	N/A
3	Horn Antenna	Schwarzbeck	BBHA 9120D	1640	N/A
4	Base Station	R&S	CMW500	106071	N/A

For other test:

	Product	Manufacturer	Model No.	Serial No.	FCC ID
1	LTE Modem	BEC	MX-100UG	N/A	Contains module FCC ID: RI7LM960
2	Notebook	DELL	Latitude E6320	8611271467	N/A

1.5. Configuration of tested System





1.6. EUT Operation of during Test

For Radiated Emission Co-location test:

1	Set the EUT as shown.
2	Execute the control software MT7615 QA 0.0.1.88
3	Configure test mode, test channel and data rate.
4	Let the EUT start sending transmit continuously.
5	EUT is connected through the base station
6	Verify that device is working properly

For other test:

1	Set the EUT as shown.
2	Execute the control software MT7615 QA 0.0.1.88
3	Configure test mode, test channel and data rate.
4	Let the EUT start sending transmit continuously.
5	Verify that device is working properly

1.7. Test Facility

Ambient conditions in the laboratory:

Items	Test Item	Actually	Tested by	Test Date	Test Site
Temperature (°C)	AC Power Line Conducted Emission	24.5	Elwin Lin	2021/9/30	SR2-H
Humidity (%RH)		57			
Temperature (°C)	Emission Bandwidth	23 ~ 25	Clemens Fang Elwin Lin	2021/9/24 ~ 2021/10/18	SR12-H
Humidity (%RH)		56 ~ 67			
Temperature (°C)	Maximum Conducted Output Power	21 ~ 24	Clemens Fang Elwin Lin	2021/10/14 ~ 2021/10/21	SR12-H
Humidity (%RH)		60 ~ 70			
Temperature (°C)	Peak Power Spectral Density	21 ~ 23	Clemens Fang Elwin Lin	2021/10/18 ~ 2021/10/21	SR12-H
Humidity (%RH)		60 ~ 67			
Temperature (°C)	Radiated Emission	22 ~ 24	Cyril Chen Getaz Yang Ling Chen	2021/9/22 ~ 2021/10/20	CB2-H
Humidity (%RH)		60 ~ 62			
Temperature (°C)	Radiated Emission Band Edge	22 ~ 24	Cyril Chen Getaz Yang Ling Chen	2021/9/22 ~ 2021/10/20	CB2-H
Humidity (%RH)		60 ~ 62			

Note: Test site information refers to Laboratory Information.

USA : **FCC Registration Number: TW3024**
Canada : **CAB identifier : 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.372-2, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu County 31061, Taiwan, R.O.C. 2. No.372, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu County 31061, Taiwan, R.O.C.
Phone number	1. +886-3-582-8001 2. +886-3-582-8001
Fax number	1. +886-3-582-8958 2. +886-3-582-8958
E mail address	info.tw@dekra.com
Website	http://www.dekra.com.tw
Note: Test site number for address 1 includes SR2-H. Test site number for address 2 includes CB2-H, CB3-H, CB4-H, SR10-H and SR12-H.	

1.8. List of Test Equipment

SR2-H

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
Artificial Mains Network	R&S	ENV4200	848411/010	2020/12/24	2021/12/23
Test Receiver	R&S	ESCS 30	836858/022	2021/02/22	2022/02/21
LISN	R&S	ENV216	100092	2021/06/08	2022/06/07

SR12-H

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
High Speed Peak Power Meter Dual Input	Anritsu	ML2496A	1602004	2020/11/30	2021/11/29
Pulse Power Sensor	Anritsu	MA2411B	1531043	2020/11/30	2021/11/29
EXA Signal Analyzer	Keysight	N9010A	MY51440132	2021/01/25	2022/01/24
Pulse Power Sensor	Anritsu	MA2411B	1531044	2020/11/30	2021/11/29
Power Meter	Keysight	8990B	MY51000248	2021/05/21	2022/05/20
Power Sensor	Keysight	N1923A	MY57240005	2021/05/21	2022/05/20
Spectrum Analyzer	Keysight	N9030B	MY57140404	2021/05/14	2022/05/13
Spectrum Analyzer	Keysight	N9010B	MY57110159	2021/03/29	2022/03/28
Spectrum Analyzer	Agilent	N9010A	US47140172	2021/05/28	2022/05/27
Signal & Spectrum Analyzer	R&S	FSV40	101049	2021/03/31	2022/03/30

CB2-H

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
Signal Analyzer	R&S	FSVA40	101455	2020/10/12	2021/10/11
Signal & Spectrum Analyzer	R&S	FSV40	101049	2021/03/31	2022/03/30
Signal Analyzer	R&S	FSVA40	101435	2021/06/04	2022/06/03
EXA Signal Analyzer	Keysight	N9010A	MY51440132	2021/01/25	2022/01/24
Trilog Broadband Antenna	Schwarzbeck	VULB 9168	1272	2021/08/20	2022/08/19
Bilog Antenna	Teseq	CBL6112D	23191	2021/02/26	2022/02/25
Horn Antenna	Schwarzbeck	BBHA 9120D	639	2021/05/17	2022/05/16
Horn Antenna	Schwarzbeck	BBHA 9170	202	2020/12/16	2021/12/15
Pre-Amplifier	EMCI	EMC01820I	980365	2021/05/28	2022/05/27
Pre-Amplifier	E MEC	EM01G18GA	060741	2021/07/02	2022/07/01
Pre-Amplifier	DEKRA	AP-400C	201801231	2020/11/16	2021/11/15
Coaxial Cable(13m)	Huber+Suhner	SF104	CB2-H	2021/08/17	2022/08/16
Radiated Software	AUDIX	e3 V9	CB2-H	N/A	N/A

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

1.9. Measurement Uncertainty

Uncertainties have been calculated according to the DEKRA internal document with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2)).

Test Item	Uncertainty
AC Power Line Conducted Emission	± 2.1 dB
Emission Bandwidth	± 637 Hz
Maximum Conducted Output Power	± 1.16dB
Maximum Power Spectral Density	± 2.11dB
Radiated Emission	± 3.40 dB below 1 GHz ± 3.46 dB above 1 GHz
Radiated Emission Band Edge	± 3.40 dB below 1 GHz ± 3.46 dB above 1 GHz

1.10. Duty Cycle

Modulation	On Time (ms)	On+Off Time (ms)	Duty Cycle (%)	Duty Factor (dB)	1/T Minimum VBW (kHz)
802.11a	1.390	1.720	80.81	0.925	0.719
802.11ac (20 MHz)	1.310	1.670	78.44	1.054	0.763
802.11ac (40 MHz)	0.640	1.120	57.14	2.430	1.563
802.11ac (80 MHz)	0.310	0.670	46.27	3.347	3.226

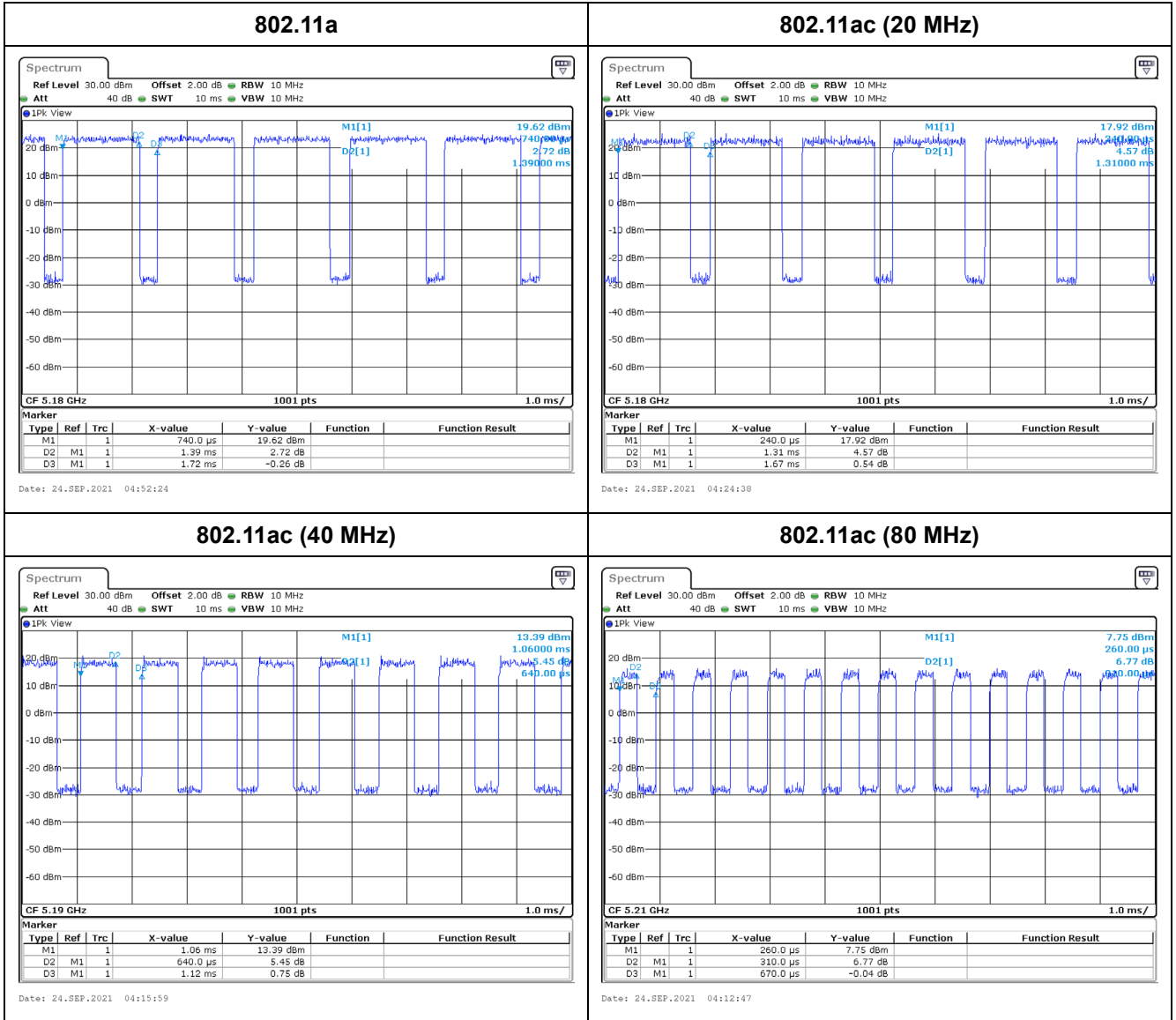
Note:

Offset = $20 \log(1/\text{duty cycle})$

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.

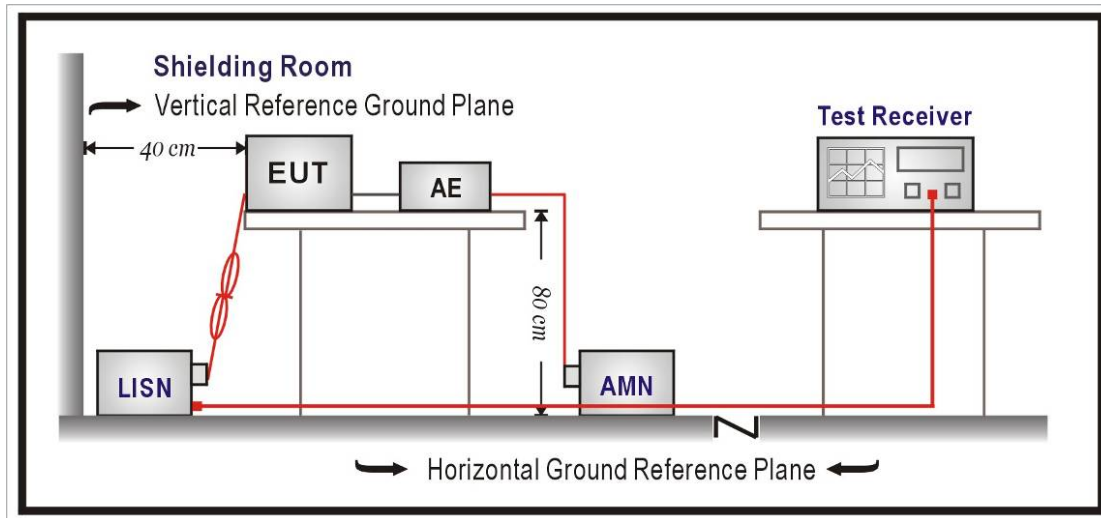


2. Antenna Requirements

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. AC Power Line Conducted Emission

3.1. Test Setup



3.2. Test Limit

Frequency (MHz)	QP (dBuV)	AV (dBuV)
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.

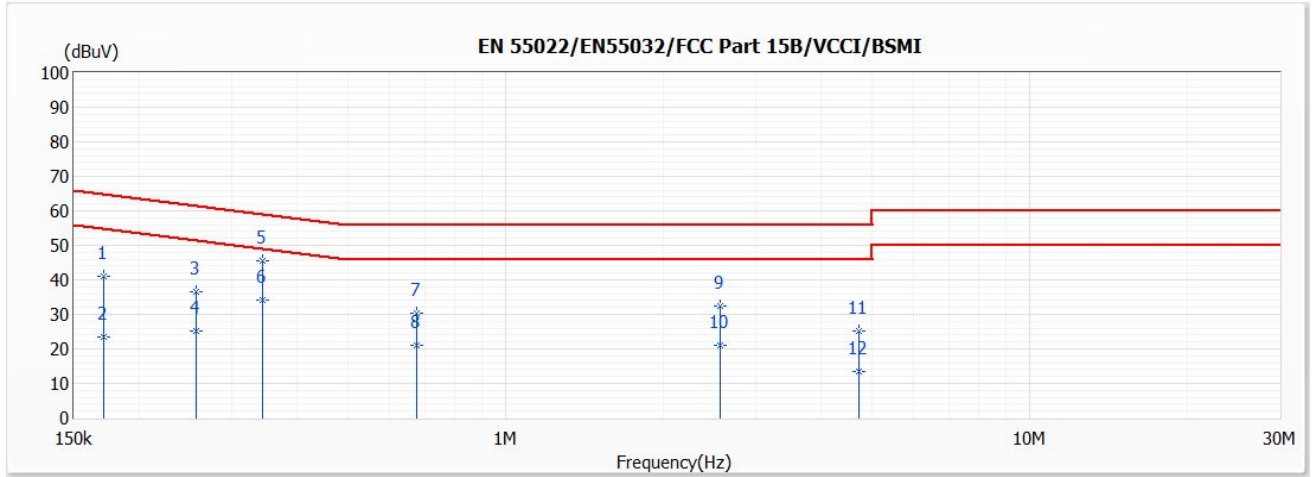
Conducted emissions were investigated over the frequency range from 0.15 MHz to 30 MHz using a receiver bandwidth of 9 kHz.

3.4. Test Specification

According to FCC CFR Title 47 Part 15 Subpart E.

3.5. Test Result of AC Power Line Conducted Emission

Test Mode	Mode 1: Transmit	Phase	Line
Test Condition	802.11ac (80 MHz) / Ant. 0 + Ant. 1 / 5210 MHz		

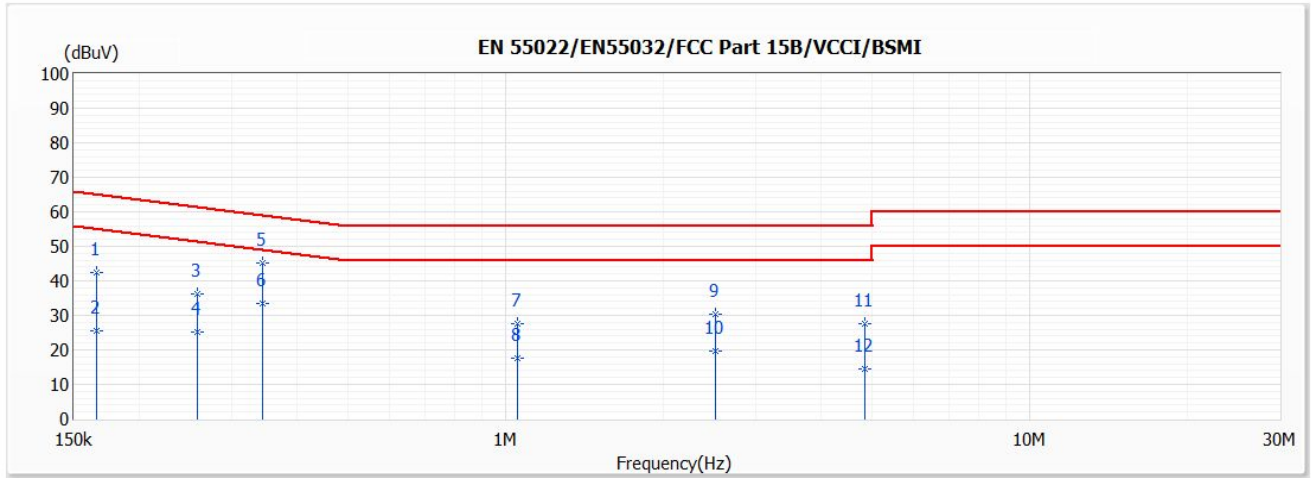


No	Frequency (MHz)	Emission Level (dBuV)	Limit (dBuV)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	0.171	41.02	64.94	-23.92	31.39	9.63	QP
2	0.171	23.52	54.94	-31.42	13.89	9.63	AV
3	0.256	36.53	61.54	-25.01	26.89	9.64	QP
4	0.256	25.13	51.54	-26.41	15.49	9.64	AV
*5	0.343	45.47	59.14	-13.67	35.82	9.65	QP
6	0.343	34.25	49.14	-14.89	24.60	9.65	AV
7	0.676	30.40	56.00	-25.60	20.72	9.68	QP
8	0.676	21.16	46.00	-24.84	11.48	9.68	AV
9	2.559	32.40	56.00	-23.60	22.59	9.81	QP
10	2.559	21.08	46.00	-24.92	11.27	9.81	AV
11	4.727	25.29	56.00	-30.71	15.37	9.92	QP
12	4.727	13.51	46.00	-32.49	3.59	9.92	AV

Remark:

1. "*" means this data is the worst emission level.
2. Emission Level = Reading Level + Correct Factor (Correct Factor = LISN Insertion Loss + Cable Loss).
3. Margin = Emission Level - Limit.

Test Mode	Mode 1: Transmit	Phase	Neutral
Test Condition	802.11ac (80 MHz) / Ant. 0 + Ant. 1 / 5210 MHz		



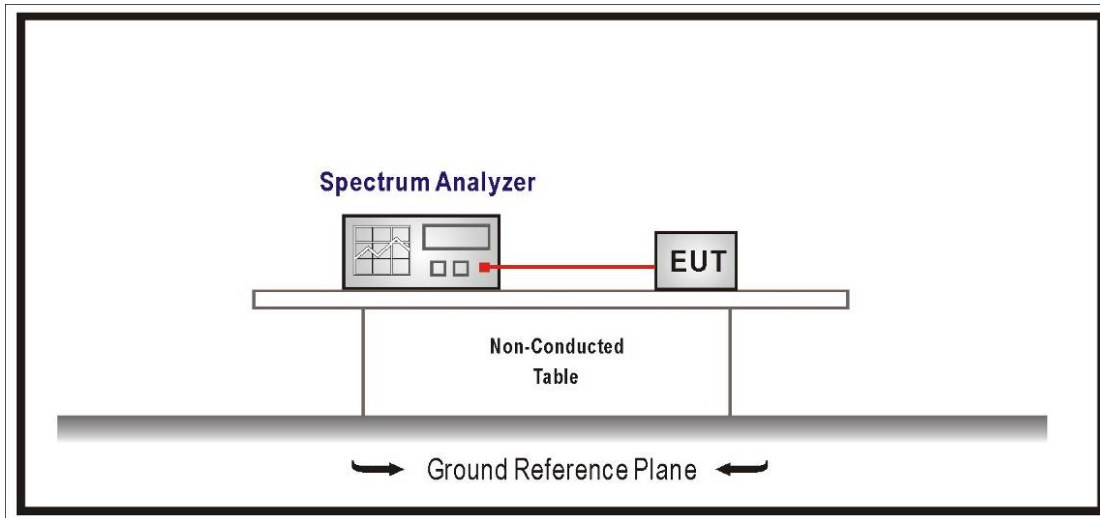
No	Frequency (MHz)	Emission Level (dBuV)	Limit (dBuV)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	0.165	42.34	65.19	-22.85	32.70	9.64	QP
2	0.165	25.59	55.19	-29.60	15.95	9.64	AV
3	0.258	36.29	61.51	-25.22	26.65	9.64	QP
4	0.258	25.15	51.51	-26.36	15.51	9.64	AV
*5	0.343	45.09	59.13	-14.04	35.43	9.66	QP
6	0.343	33.58	49.13	-15.55	23.92	9.66	AV
7	1.054	27.57	56.00	-28.43	17.84	9.73	QP
8	1.054	17.54	46.00	-28.46	7.81	9.73	AV
9	2.509	30.34	56.00	-25.66	20.52	9.82	QP
10	2.509	19.82	46.00	-26.18	10.00	9.82	AV
11	4.843	27.54	56.00	-28.46	17.61	9.93	QP
12	4.843	14.58	46.00	-31.42	4.65	9.93	AV

Remark:

1. "*" means this data is the worst emission level.
2. Emission Level = Reading Level + Correct Factor (Correct Factor = LISN Insertion Loss + Cable Loss).
3. Margin = Emission Level - Limit.

4. Emission Bandwidth

4.1. Test Setup



4.2. Test Limit

99% & 26dB Bandwidth : No Required

6dB Bandwidth \geq 500kHz

4.3. Test Procedure

99% & 26dB Bandwidth :

The EUT was tested according to U-NII test procedure of KDB 789033.D02 V02r01

Set RBW 1% of the emission bandwidth, VBW equal to 3 times the RBW.

DTS Bandwidth :

Set RBW = 100kHz, VBW \geq 3xRBW, Sweep time=Auto, Set Peak detector.

4.4. Test Specification

According to FCC CFR Title 47 Part 15 Subpart E.

4.5. Test Result of Emission Bandwidth

Modulation	Channel	Frequency (MHz)	99% Bandwidth (MHz)		26dB Bandwidth (MHz)		Limit (MHz)	
			Ant. 0	Ant. 1	Ant. 0	Ant. 1	99% & 26dB Bandwidth	
802.11a	36	5180	17.102		20.340		-	
	44	5220	17.262		21.219		-	
	48	5240	17.182		23.616		-	
Modulation	Channel	Frequency (MHz)	99% Bandwidth (MHz)		DTS Bandwidth (MHz)		Limit (MHz)	
			Ant. 0	Ant. 1	Ant. 0	Ant. 1	99% Bandwidth	DTS Bandwidth
802.11a	149	5745	17.182		15.105		-	≥ 0.50
	157	5785	16.783		15.105		-	≥ 0.50
	165	5825	17.102		15.105		-	≥ 0.50

Modulation	Channel	Frequency (MHz)	99% Bandwidth (MHz)		26dB Bandwidth (MHz)		Limit (MHz)	
			Ant. 0	Ant. 1	Ant. 0	Ant. 1	99% & 26dB Bandwidth	
802.11ac (20 MHz)	36	5180	17.942	17.742	20.739	20.340	-	
	44	5220	17.942	17.622	20.819	20.220	-	
	48	5240	17.982	17.622	21.939	20.260	-	
Modulation	Channel	Frequency (MHz)	99% Bandwidth (MHz)		DTS Bandwidth (MHz)		Limit (MHz)	
			Ant. 0	Ant. 1	Ant. 0	Ant. 1	99% Bandwidth	DTS Bandwidth
802.11ac (20 MHz)	149	5745	17.902	17.662	15.105	16.304		≥ 0.50
	157	5785	17.942	17.622	15.105	15.704	-	≥ 0.50
	165	5825	17.862	17.582	15.105	16.304	-	≥ 0.50

Modulation	Channel	Frequency (MHz)	99% Bandwidth (MHz)		26dB Bandwidth (MHz)		Limit (MHz)	
			Ant. 0	Ant. 1	Ant. 0	Ant. 1	99% & 26dB Bandwidth	
802.11ac (40 MHz)	38	5190	36.123	36.043	40.040	39.640	-	
	46	5230	36.123	36.123	40.280	39.481	-	
Modulation	Channel	Frequency (MHz)	99% Bandwidth (MHz)		DTS Bandwidth (MHz)		Limit (MHz)	
			Ant. 0	Ant. 1	Ant. 0	Ant. 1	99% Bandwidth	DTS Bandwidth
802.11ac (40 MHz)	151	5755	36.123	36.203	35.165	35.005	-	≥ 0.50
	159	5795	36.043	36.123	35.085	35.085	-	≥ 0.50

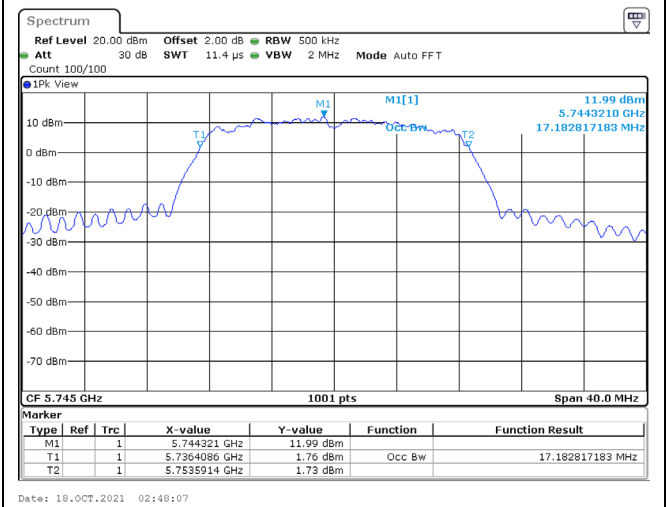
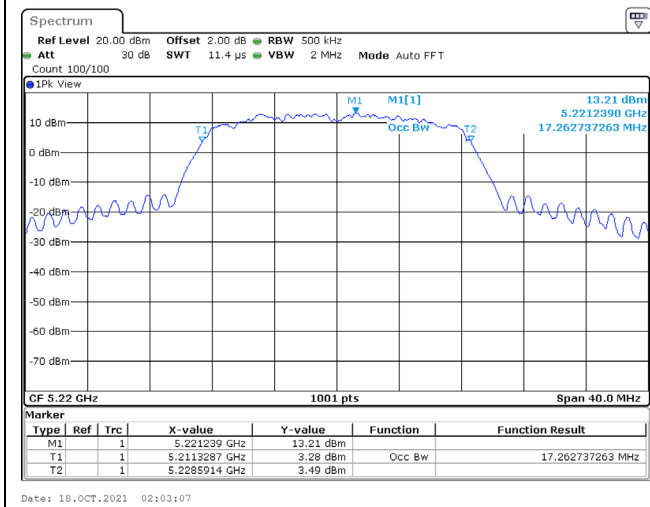
Modulation	Channel	Frequency (MHz)	99% Bandwidth (MHz)		26dB Bandwidth (MHz)		Limit (MHz)	
			Ant. 0	Ant. 1	Ant. 0	Ant. 1	99% & 26dB Bandwidth	
802.11ac (80 MHz)	42	5210	75.284	74.965	80.400	78.961	-	
Modulation	Channel	Frequency (MHz)	99% Bandwidth (MHz)		DTS Bandwidth (MHz)		Limit (MHz)	
			Ant. 0	Ant. 1	Ant. 0	Ant. 1	99% Bandwidth	DTS Bandwidth
802.11ac (80 MHz)	155	5755	74.965	74.965	73.846	75.125	-	≥ 0.50

For 99% Bandwidth:

Spectrum plot of maximum value

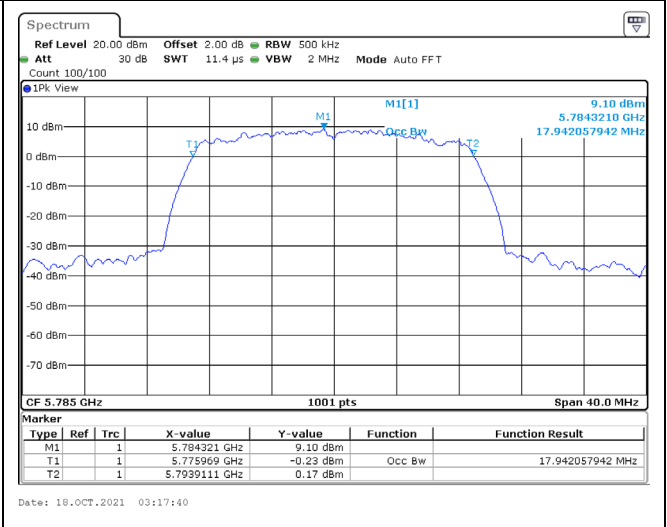
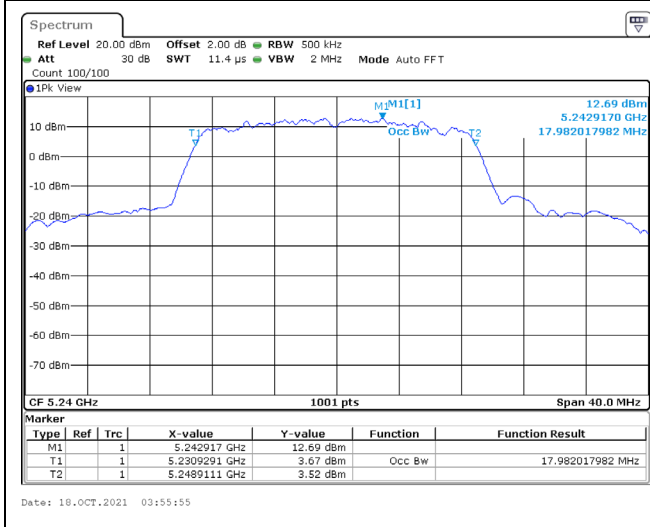
802.11a / Ant. 0 / 5220 MHz (U-NII-1)

802.11a / Ant. 0 / 5745 MHz (U-NII-3)



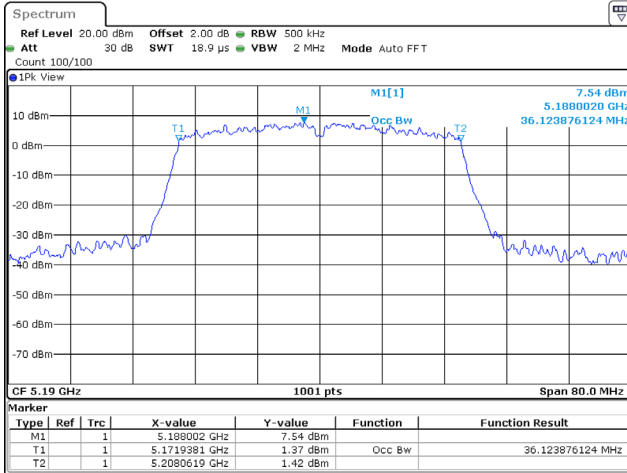
802.11ac (20 MHz) / Ant. 0 / 5240 MHz (U-NII-1)

802.11ac (20 MHz) / Ant. 0 / 5785 MHz (U-NII-3)



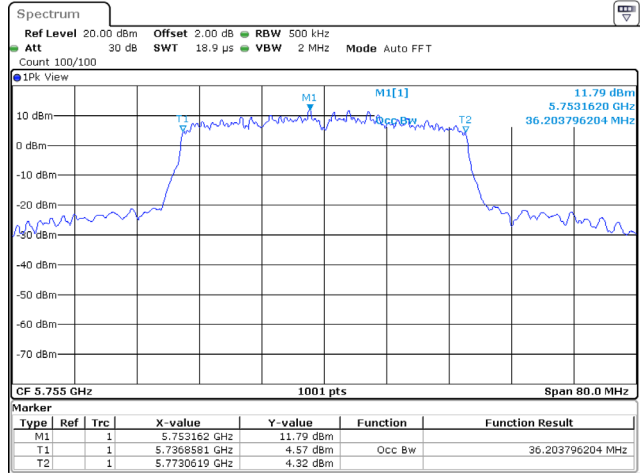
Spectrum plot of maximum value

802.11ac (40 MHz) / Ant. 0 / 5190 MHz (U-NII-1)



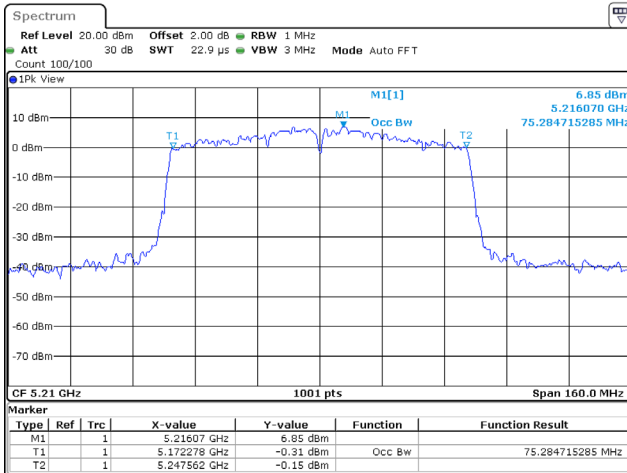
Date: 18.OCT.2021 03:57:01

802.11ac (40 MHz) / Ant. 1 / 5755 MHz (U-NII-3)



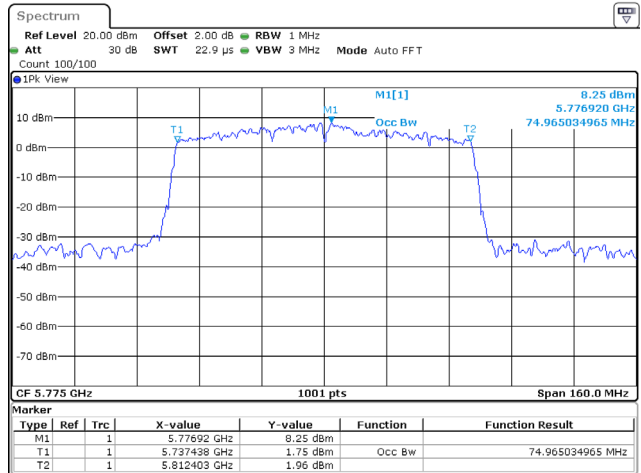
Date: 18.OCT.2021 04:01:56

802.11ac (80 MHz) / Ant. 0 / 5210 MHz (U-NII-1)



Date: 18.OCT.2021 04:07:45

802.11ac (80 MHz) / Ant. 0 / 5775 MHz (U-NII-3)

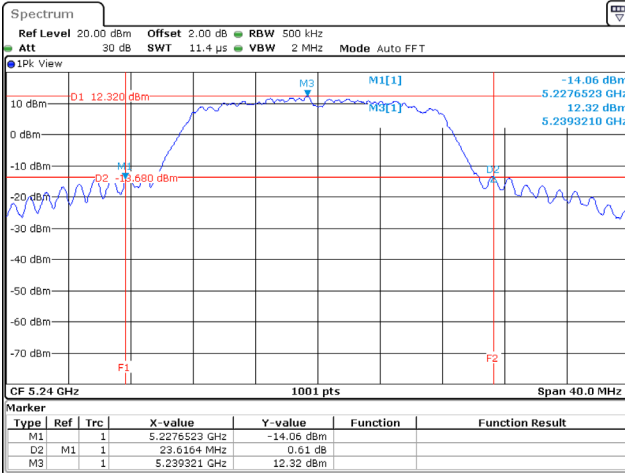


Date: 18.OCT.2021 04:04:44

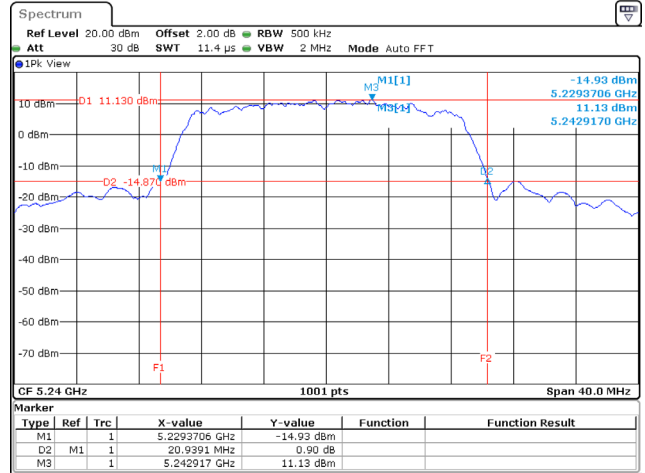
For 26dB Bandwidth:

Spectrum plot of maximum value

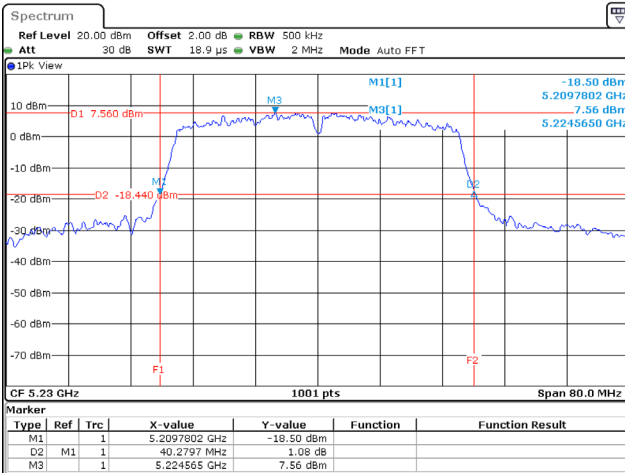
802.11a / Ant. 0 / 5240 MHz (U-NII-1)



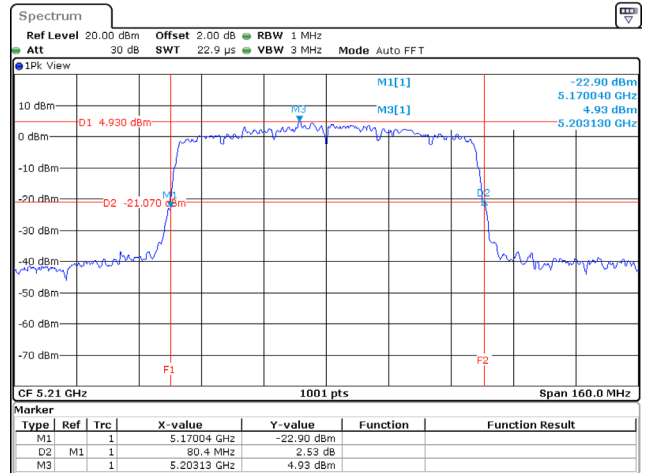
802.11ac (20 MHz) / Ant. 0 / 5240 MHz (U-NII-1)



802.11ac (40 MHz) / Ant. 0 / 5230 MHz (U-NII-1)

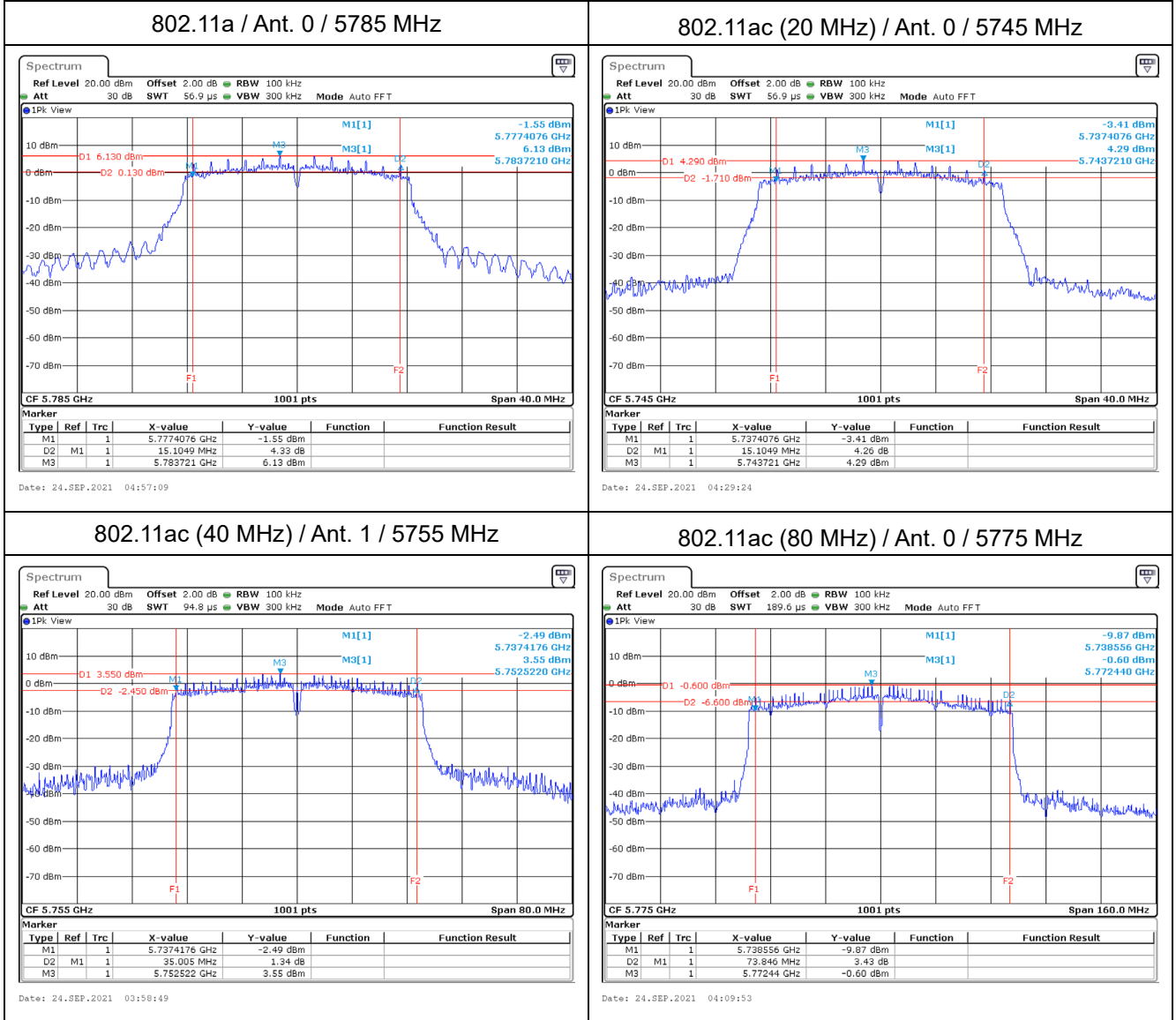


802.11ac (80 MHz) / Ant. 0 / 5210 MHz (U-NII-1)



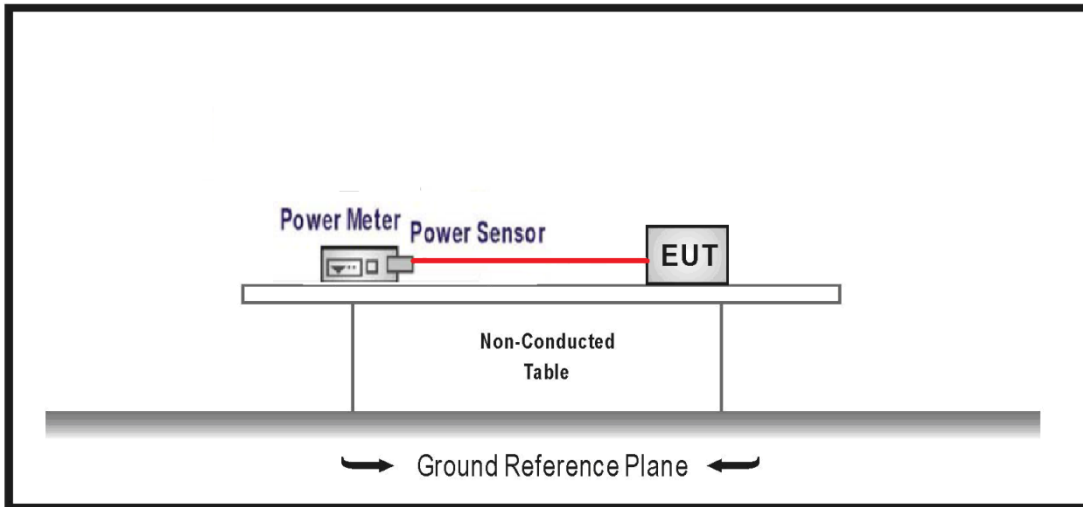
For DTS Bandwidth:

Spectrum plot of worst value



5. Maximum Conducted Output Power

5.1. Test Setup



5.2. Test Limit

1. For the band 5.15 ~ 5.25 GHz, the peak transmit power over the frequency band of operation shall not exceed the lesser of 1W. If transmitting antenna of directional gain greater than 6 dBi are used, the peak transmit power shall be reduced by the amount in dB that directional gain of the antenna exceeds 6 dBi. 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. 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 band 5.25 ~ 5.35 GHz, the peak transmit power over the frequency band of operation shall not exceed the lesser of 250 mW. If transmitting antenna of directional gain greater than 6 dBi are used, the peak transmit power shall be reduced by the amount in dB that directional gain of the antenna exceeds 6 dBi.
3. For the band 5.725 ~ 5.850 GHz, the peak transmit power over the frequency band of operation shall not exceed the lesser of 1W. If transmitting antenna of directional gain greater than 6 dBi are used, the peak transmit power shall be reduced by the amount in dB that directional gain of the antenna exceeds 6 dBi.

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 CFR Title 47 Part 15 Subpart E.

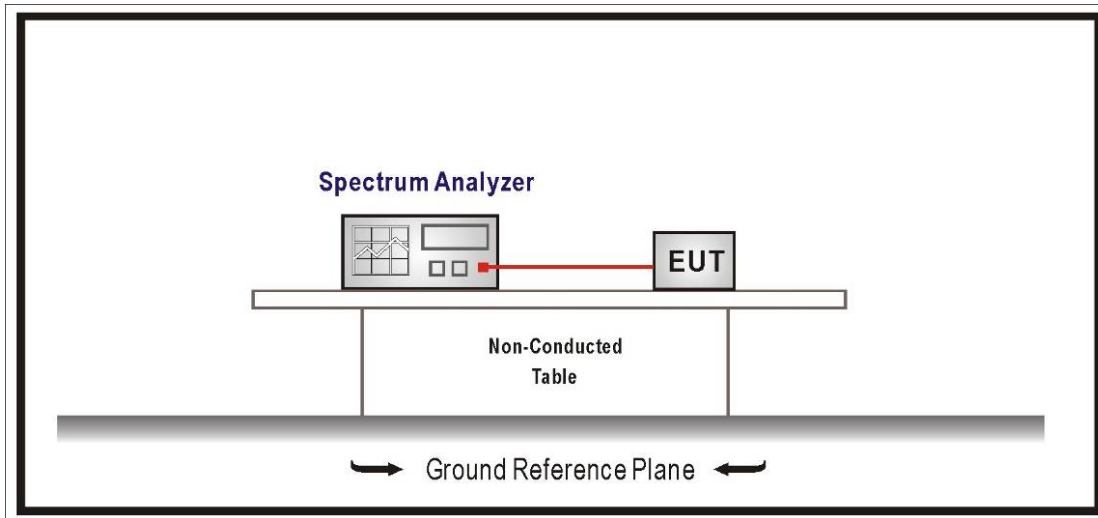
5.4. Test Result of Maximum Conducted Output Power

Modulation	Channel	Frequency (MHz)	Maximum Conducted Output Power (dBm)		Limit (dBm)	Result
			Ant. 0			
802.11a	36	5180	20.680		≤ 30.00	Pass
	44	5220	20.250		≤ 30.00	Pass
	48	5240	20.110		≤ 30.00	Pass
	149	5745	19.480		≤ 30.00	Pass
	157	5785	20.050		≤ 30.00	Pass
	165	5825	19.680		≤ 30.00	Pass

Modulation	Channel	Frequency (MHz)	Maximum Conducted Output Power (dBm)			Limit (dBm)	Result
			Ant. 0	Ant. 1	Total		
802.11ac (20 MHz)	36	5180	18.280	18.030	21.167	≤ 30.00	Pass
	44	5220	18.520	17.970	21.264	≤ 30.00	Pass
	48	5240	18.500	17.870	21.207	≤ 30.00	Pass
	149	5745	15.470	16.940	19.277	≤ 30.00	Pass
	157	5785	15.240	17.010	19.225	≤ 30.00	Pass
	165	5825	15.810	16.580	19.222	≤ 30.00	Pass
802.11ac (40 MHz)	38	5190	16.440	15.720	19.105	≤ 30.00	Pass
	46	5230	16.680	15.870	19.304	≤ 30.00	Pass
	151	5755	16.740	17.700	20.257	≤ 30.00	Pass
	159	5795	16.830	17.940	20.431	≤ 30.00	Pass
802.11ac (80 MHz)	42	5210	13.920	13.030	16.508	≤ 30.00	Pass
	155	5775	15.740	17.010	19.432	≤ 30.00	Pass

6. Maximum Power Spectral Density

6.1. Test Setup



6.2. Test Limit

1. For the band 5.15 ~ 5.25 GHz, the peak power spectral density shall not exceed 17 dBm in any 1 MHz band. If transmitting antenna of directional gain greater than 6 dBi are used, the peak 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 5.25 ~ 5.35 GHz ,5470 ~ 5600 MHz and 5650 ~ 5725 MHz, the peak 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 peak 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 peak power spectral density shall not exceed 30 dBm in any 500 kHz band. If transmitting antenna of directional gain greater than 6 dBi are used, the peak 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 CFR Title 47 Part 15 Subpart E requirements.

For Band1 : Set RBW=1 MHz, VBW=3 MHz 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=500 kHz, VBW=1.5 MHz with RMS detector. The PPSD is the highest level found across the emission in any 500 kHz band after 100 sweeps of averaging.

6.4. Test Result of Maximum Power Spectral Density

Modulation	Channel	Frequency (MHz)	Power Spectral Density (dBm)		Limit (dBm)	Result
			Ant. 0	Total		
802.11a	36	5180	10.210	11.135	≤ 16.45	Pass
	44	5220	10.040	10.965	≤ 16.45	Pass
	48	5240	10.600	11.525	≤ 16.45	Pass
	149	5745	7.350	8.275	≤ 29.45	Pass
	157	5785	7.440	8.365	≤ 29.45	Pass
	165	5825	7.280	8.205	≤ 29.45	Pass

Modulation	Channel	Frequency (MHz)	Power Spectral Density (dBm)			Limit (dBm)	Result
			Ant. 0	Ant. 1	Total		
802.11ac (20 MHz)	36	5180	7.020	8.280	11.760	≤ 16.45	Pass
	44	5220	8.040	7.550	11.867	≤ 16.45	Pass
	48	5240	7.560	6.770	11.248	≤ 16.45	Pass
	149	5745	3.060	3.800	7.510	≤ 29.45	Pass
	157	5785	1.120	2.990	6.220	≤ 29.45	Pass
	165	5825	0.430	2.370	5.572	≤ 29.45	Pass
802.11ac (40 MHz)	38	5190	1.770	1.970	7.312	≤ 16.45	Pass
	46	5230	3.210	2.300	8.219	≤ 16.45	Pass
	151	5755	-0.440	0.940	5.745	≤ 29.45	Pass
	159	5795	-1.300	0.860	5.354	≤ 29.45	Pass
802.11ac (80 MHz)	42	5210	-4.470	-4.470	1.887	≤ 16.45	Pass
	155	5775	-4.640	-3.260	2.462	≤ 29.45	Pass

Note: 1. Directional Gain = $10\log [(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / N_{Ant}] = 6.55\text{dBi} > 6\text{dBi}$

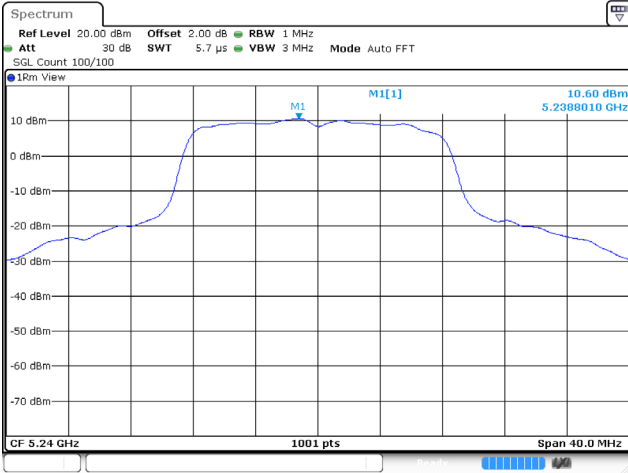
(1) U-NII-1 limit = $17 - (6.55 - 6) = 16.45\text{dBm}$.

(2) U-NII-3 limit = $30 - (6.55 - 6) = 29.45\text{dBm}$.

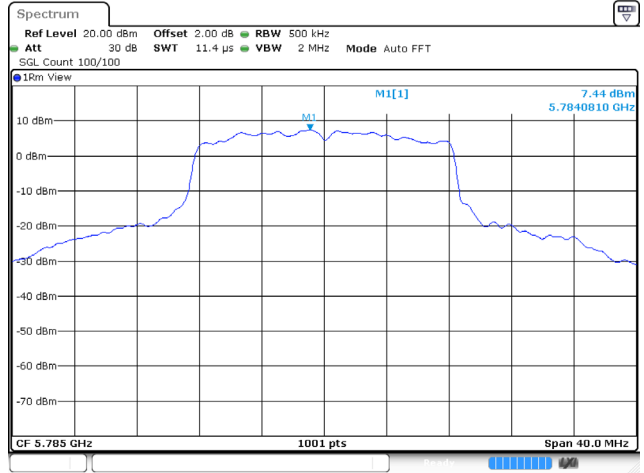
2. Total power spectral density = power spectral density + duty factor, and the duty factor refer to section 1.10.

Spectrum plot of worst value

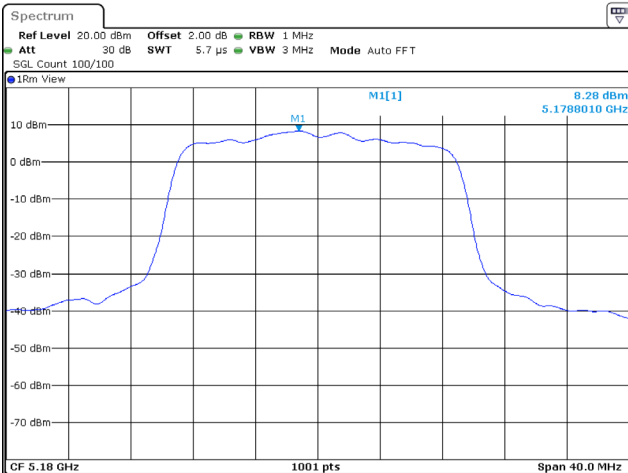
802.11a / Ant. 0 / 5240 MHz (U-NII-1)



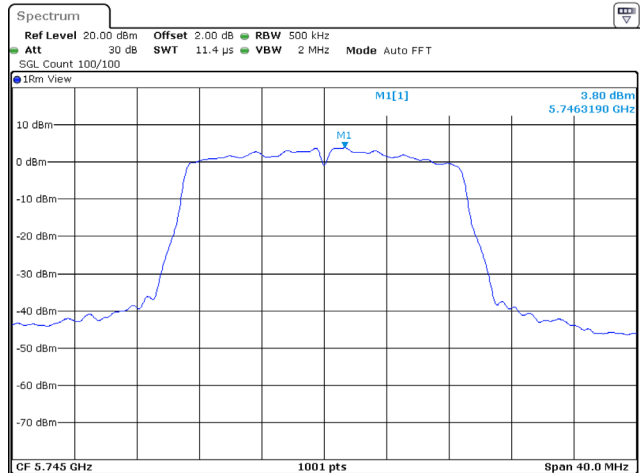
802.11a / Ant. 0 / 5785 MHz (U-NII-3)



802.11ac (20 MHz) / Ant. 1 / 5180 MHz (U-NII-1)

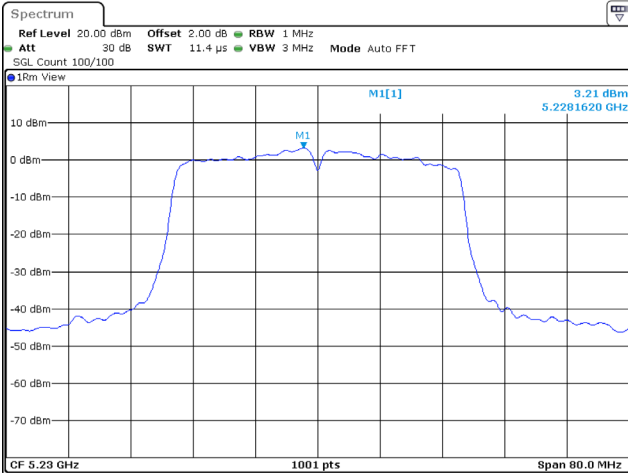


802.11ac (20 MHz) / Ant. 1 / 5745 MHz (U-NII-3)



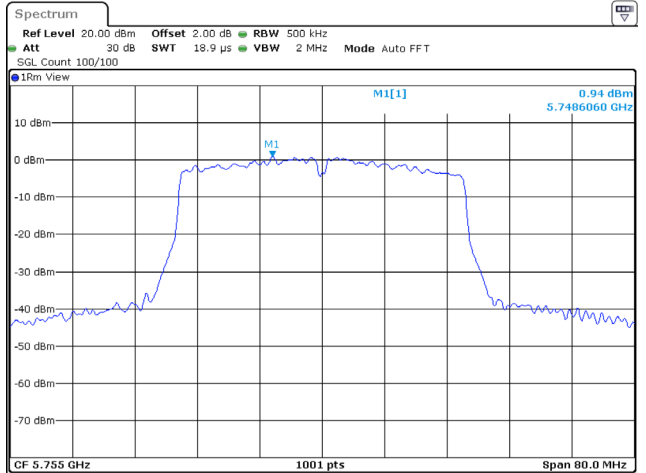
Spectrum plot of worst value

802.11ac (40 MHz) / Ant. 0 / 5230 MHz (U-NII-1)



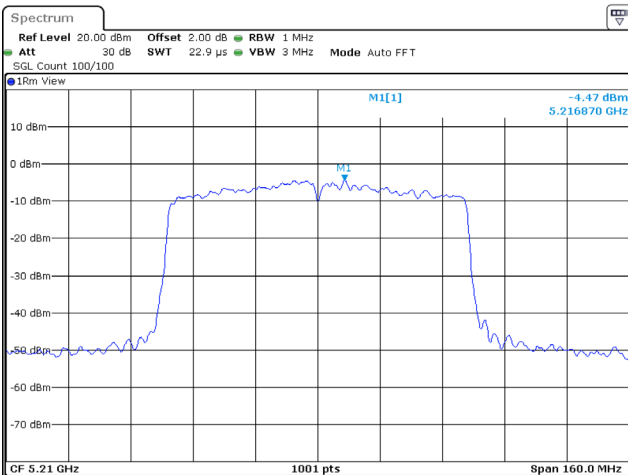
Date: 18.OCT.2021 04:00:10

802.11ac (40 MHz) / Ant. 1 / 5755 MHz (U-NII-3)



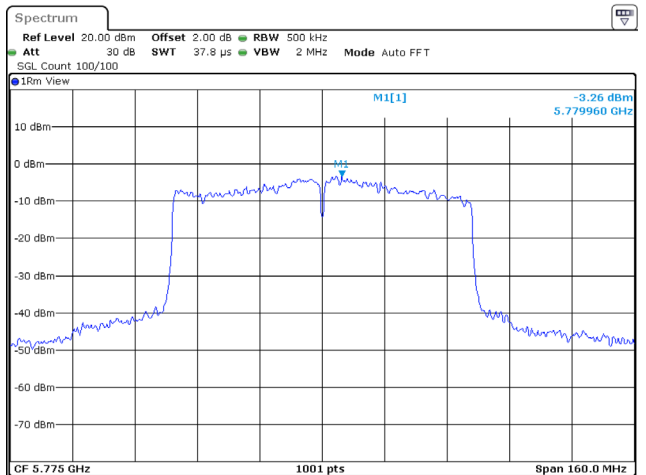
Date: 18.OCT.2021 04:02:05

802.11ac (80 MHz) / Ant. 0 / 5210 MHz (U-NII-1)



Date: 18.OCT.2021 04:07:54

802.11ac (80 MHz) / Ant. 1 / 5775 MHz (U-NII-3)

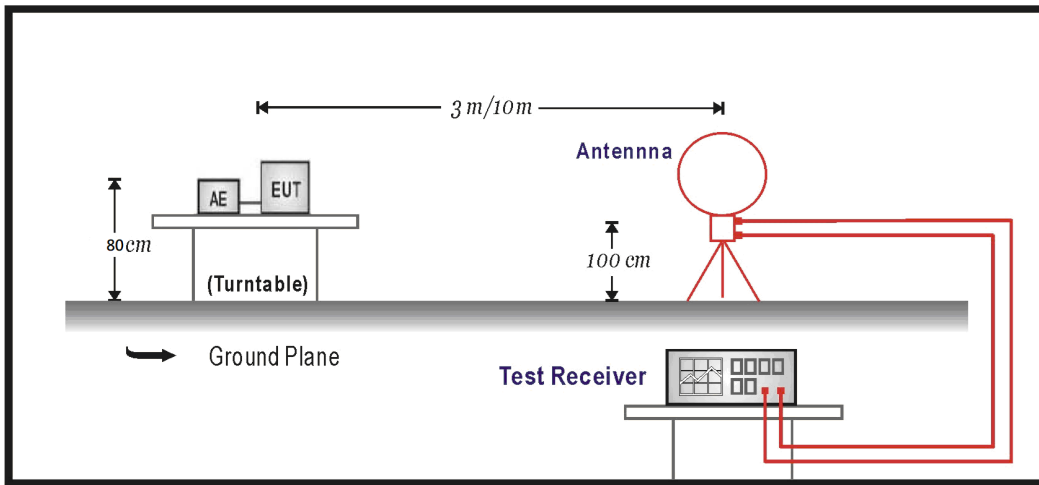


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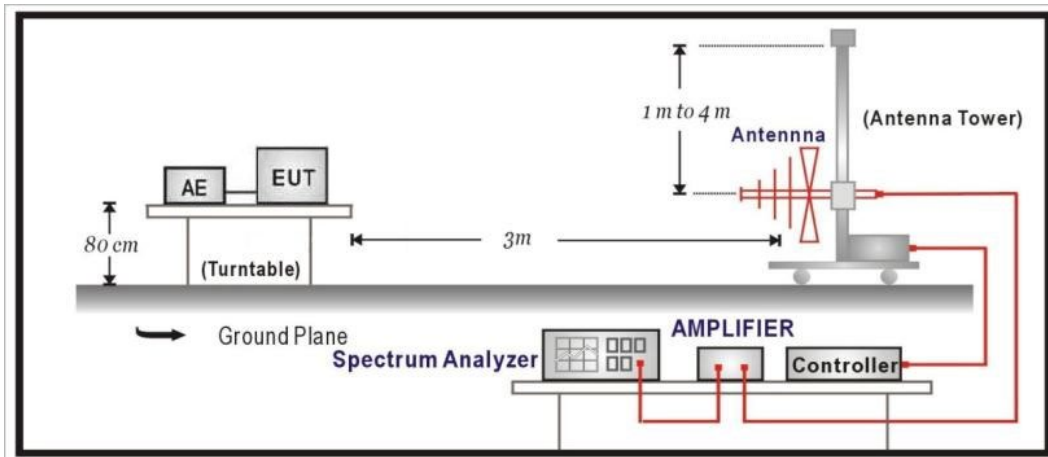
7. Radiated Emission

7.1. Test Setup

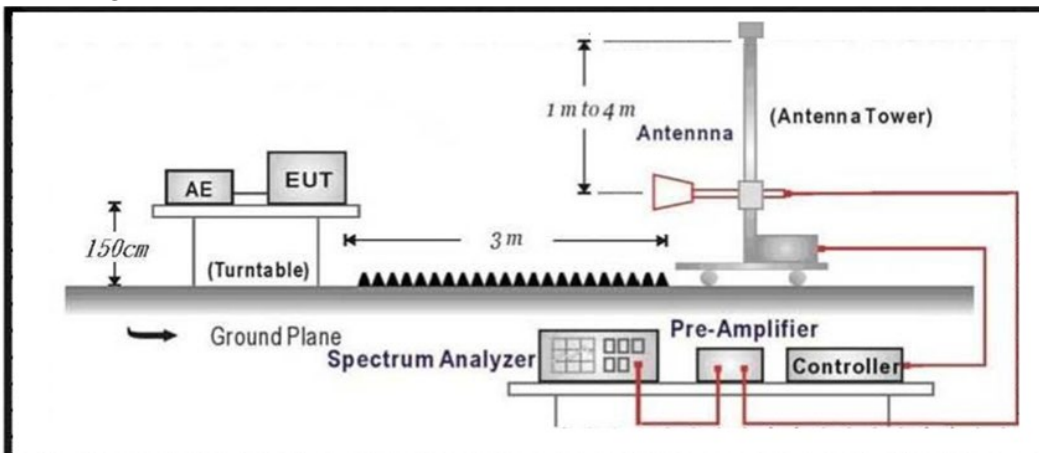
9 kHz ~ 30 MHz



30 MHz ~ 1 GHz



Above 1 GHz



7.2. Test Limit

General Radiated Emission Test Limit

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 30 dB below the level of the fundamental or to the general radiated emission limit in paragraph 15.209, whichever is the lesser attenuation.

Frequency (MHz)	Field strength (uV/m)	Field strength (dBuV/m)	Measurement distance (m)
0.009 – 0.490	2400/F(kHz)	20 log (2400/F(kHz))	300
0.490 – 1.705	24000/F(kHz)	20 log (24000/F(kHz))	30
1.705 - 30	30	29.5	30
30 - 88	100	40	3
88 - 216	150	43.5	3
216 - 960	200	46	3
Above 960	500	54	3

Remarks:

1. Field strength (dBuV/m) = 20 log Field strength (uV/m)
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 Test Limit

Frequency (MHz)	EIRP Limit (dBm/MHz)	Equivalent Field Strength (dBuV/m@3m)
5150 - 5250	-27	68.2
5250 - 5350	-27	68.2
5470 - 5725	-27	68.2
5725 - 5850	-27 * ¹	68.2 * ¹
	10 * ²	105.2 * ²
	15.6 * ³	110.8 * ³
	27 * ⁴	122.2 * ⁴

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

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

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

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

Remark:

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

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

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 1 GHz was used to measure the level of harmonics radiated emission during field strength of harmonics measurement.

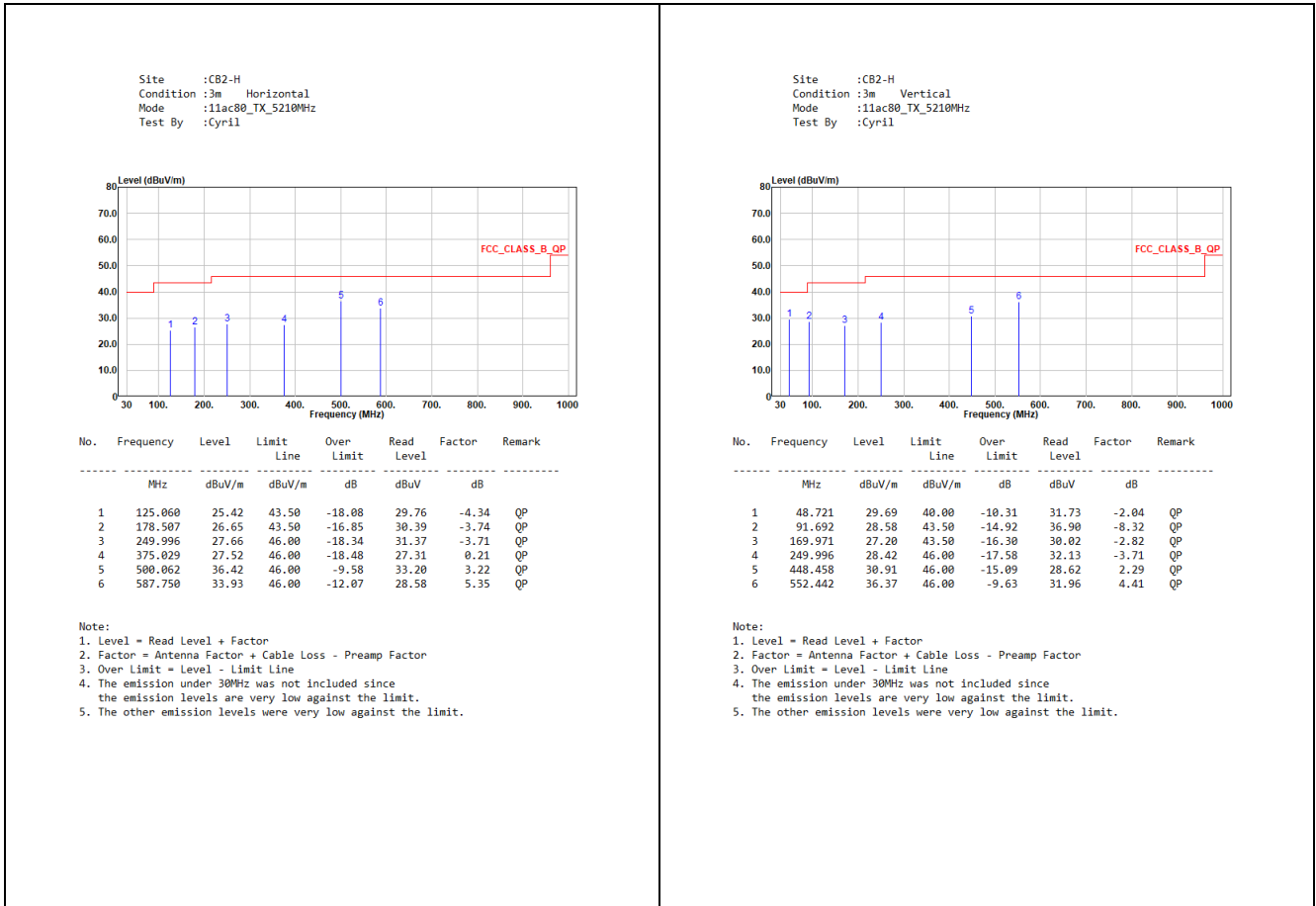
The bandwidth below 1 GHz setting on the field strength meter is 120 kHz, above 1 GHz are 1 MHz.

The frequency range from 30 MHz 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 Specification

According to FCC CFR Title 47 Part 15 Subpart E.

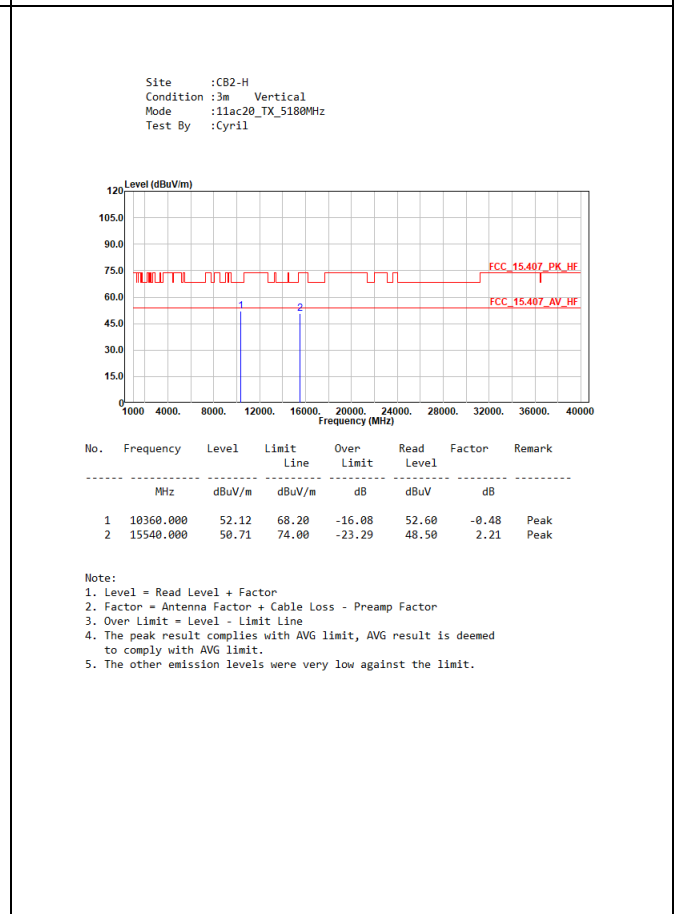
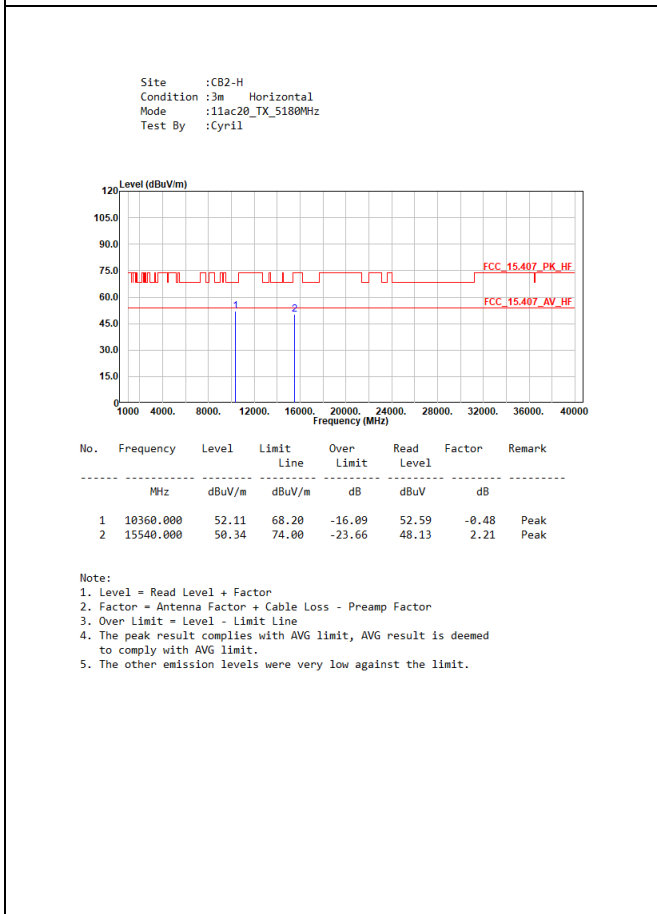
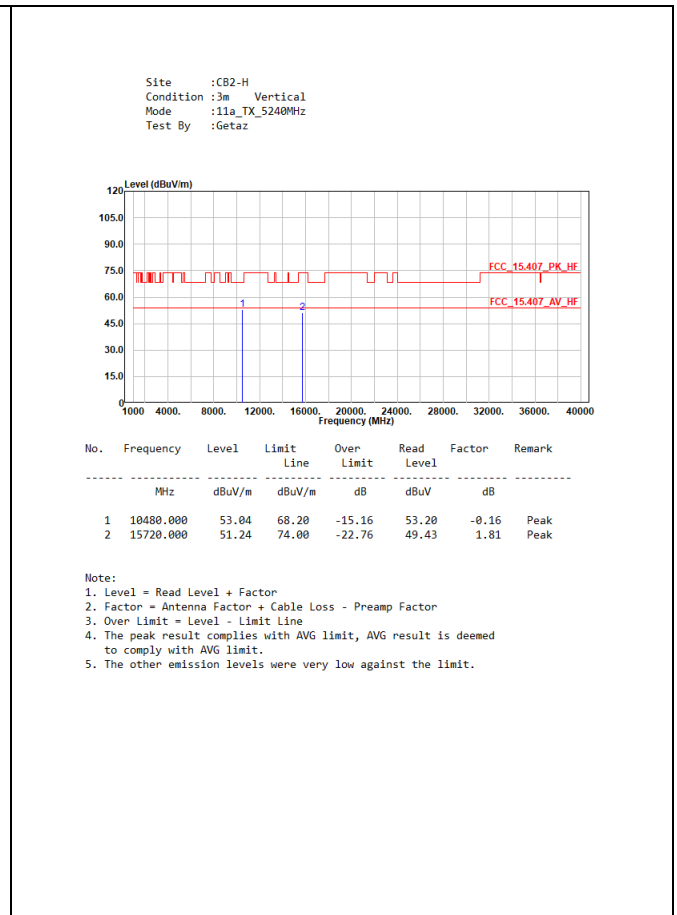
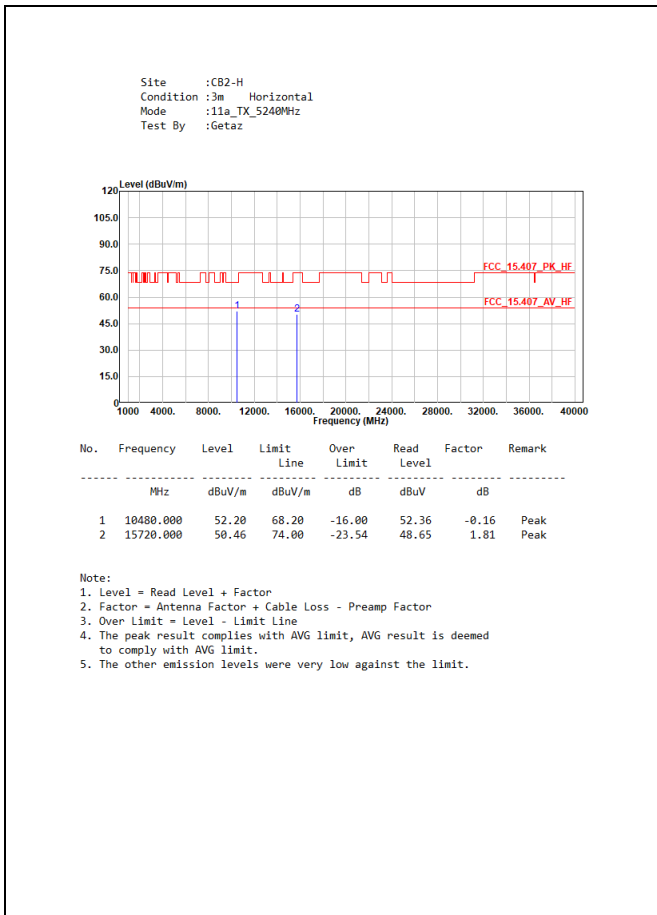
7.5. Test Result of Radiated Emissions (30 MHz ~ 1 GHz)

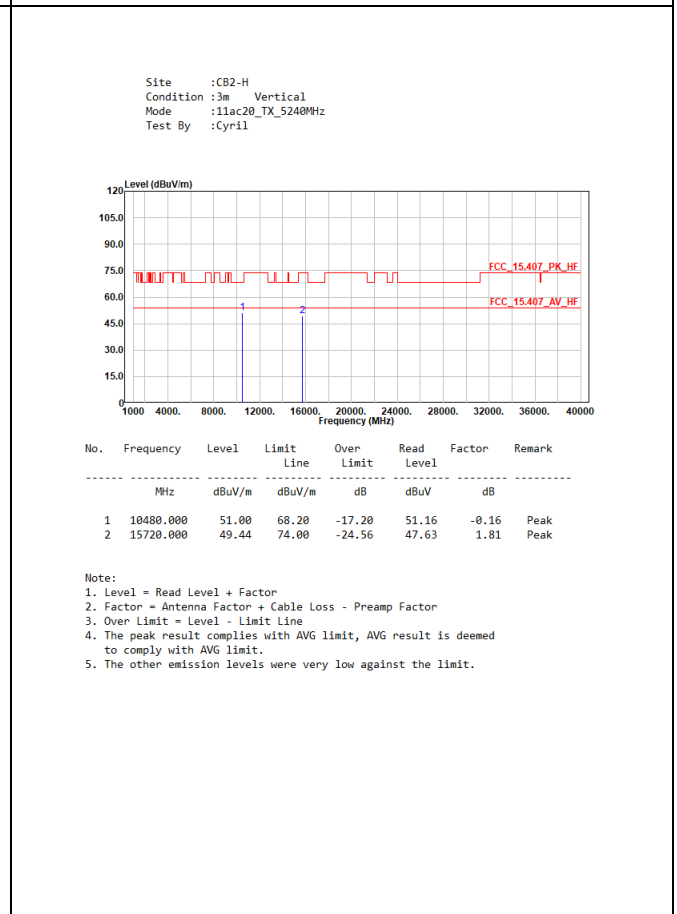
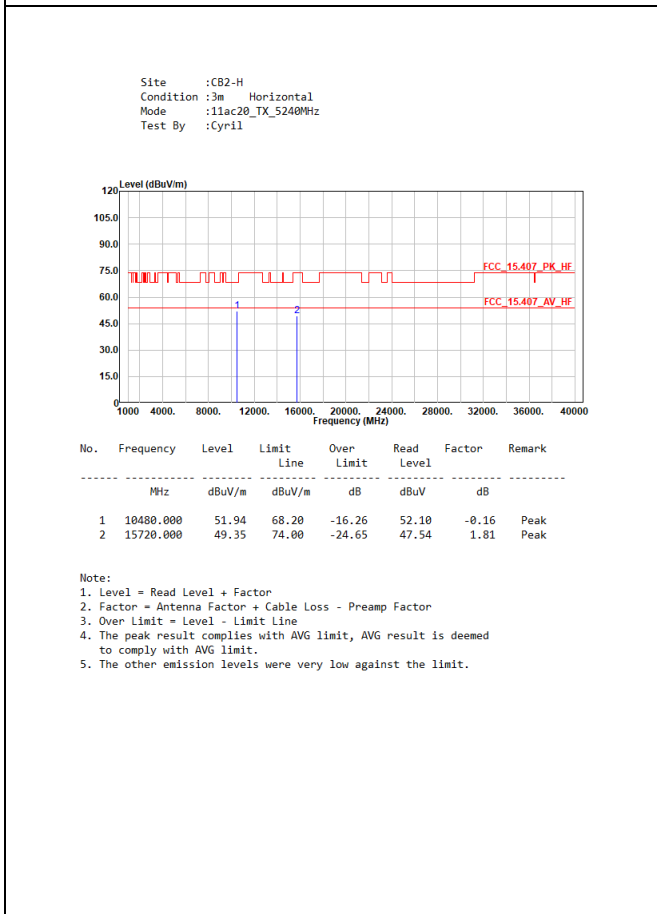
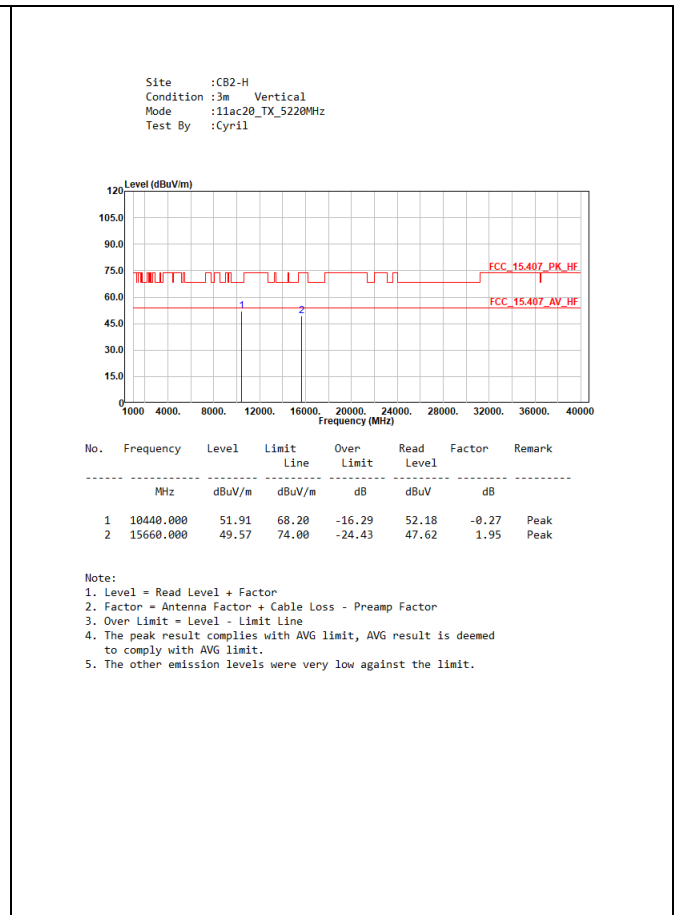
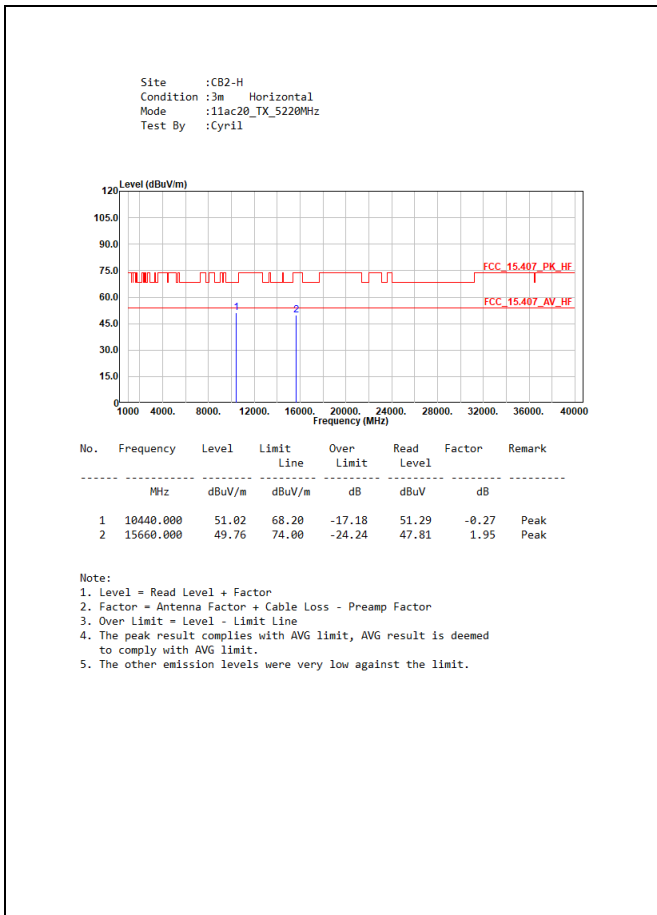


7.6. Test Result of Radiated Emissions (1 GHz ~ 10th Harmonic)

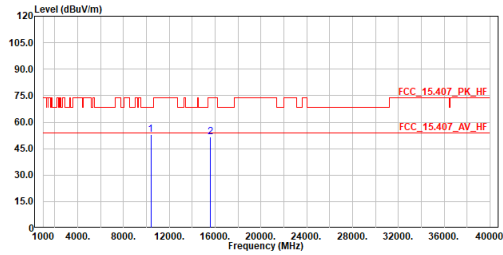
For U-NII-1:

<p>Site :CB2-H Condition :3m Horizontal Mode :11a_TX_5180MHz Test By :Getaz</p> <table border="1"> <thead> <tr> <th>No.</th> <th>Frequency</th> <th>Level</th> <th>Limit</th> <th>Over</th> <th>Read</th> <th>Factor</th> <th>Remark</th> </tr> <tr> <th></th> <th>MHz</th> <th>dBuV/m</th> <th>dBuV/m</th> <th>dB</th> <th>dBuV</th> <th>dB</th> <th></th> </tr> </thead> <tbody> <tr> <td>1</td> <td>10360.000</td> <td>50.49</td> <td>68.20</td> <td>-17.71</td> <td>50.97</td> <td>-0.48</td> <td>Peak</td> </tr> <tr> <td>2</td> <td>15540.000</td> <td>51.93</td> <td>74.00</td> <td>-22.07</td> <td>49.72</td> <td>2.21</td> <td>Peak</td> </tr> </tbody> </table> <p>Note: 1. Level = Read Level + Factor 2. Factor = Antenna Factor + Cable Loss - Preamp Factor 3. Over Limit = Level - Limit Line 4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit. 5. The other emission levels were very low against the limit.</p>	No.	Frequency	Level	Limit	Over	Read	Factor	Remark		MHz	dBuV/m	dBuV/m	dB	dBuV	dB		1	10360.000	50.49	68.20	-17.71	50.97	-0.48	Peak	2	15540.000	51.93	74.00	-22.07	49.72	2.21	Peak	<p>Site :CB2-H Condition :3m Vertical Mode :11a_TX_5180MHz Test By :Getaz</p> <table border="1"> <thead> <tr> <th>No.</th> <th>Frequency</th> <th>Level</th> <th>Limit</th> <th>Over</th> <th>Read</th> <th>Factor</th> <th>Remark</th> </tr> <tr> <th></th> <th>MHz</th> <th>dBuV/m</th> <th>dBuV/m</th> <th>dB</th> <th>dBuV</th> <th>dB</th> <th></th> </tr> </thead> <tbody> <tr> <td>1</td> <td>10360.000</td> <td>51.59</td> <td>68.20</td> <td>-16.61</td> <td>52.07</td> <td>-0.48</td> <td>Peak</td> </tr> <tr> <td>2</td> <td>15540.000</td> <td>51.97</td> <td>74.00</td> <td>-22.03</td> <td>49.76</td> <td>2.21</td> <td>Peak</td> </tr> </tbody> </table> <p>Note: 1. Level = Read Level + Factor 2. Factor = Antenna Factor + Cable Loss - Preamp Factor 3. Over Limit = Level - Limit Line 4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit. 5. The other emission levels were very low against the limit.</p>	No.	Frequency	Level	Limit	Over	Read	Factor	Remark		MHz	dBuV/m	dBuV/m	dB	dBuV	dB		1	10360.000	51.59	68.20	-16.61	52.07	-0.48	Peak	2	15540.000	51.97	74.00	-22.03	49.76	2.21	Peak
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<p>Site :CB2-H Condition :3m Horizontal Mode :11a_TX_5220MHz Test By :Getaz</p> <table border="1"> <thead> <tr> <th>No.</th> <th>Frequency</th> <th>Level</th> <th>Limit</th> <th>Over</th> <th>Read</th> <th>Factor</th> <th>Remark</th> </tr> <tr> <th></th> <th>MHz</th> <th>dBuV/m</th> <th>dBuV/m</th> <th>dB</th> <th>dBuV</th> <th>dB</th> <th></th> </tr> </thead> <tbody> <tr> <td>1</td> <td>10440.000</td> <td>52.54</td> <td>68.20</td> <td>-15.66</td> <td>52.81</td> <td>-0.27</td> <td>Peak</td> </tr> <tr> <td>2</td> <td>15660.000</td> <td>51.97</td> <td>74.00</td> <td>-22.03</td> <td>50.02</td> <td>1.95</td> <td>Peak</td> </tr> </tbody> </table> <p>Note: 1. Level = Read Level + Factor 2. Factor = Antenna Factor + Cable Loss - Preamp Factor 3. Over Limit = Level - Limit Line 4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit. 5. The other emission levels were very low against the limit.</p>	No.	Frequency	Level	Limit	Over	Read	Factor	Remark		MHz	dBuV/m	dBuV/m	dB	dBuV	dB		1	10440.000	52.54	68.20	-15.66	52.81	-0.27	Peak	2	15660.000	51.97	74.00	-22.03	50.02	1.95	Peak	<p>Site :CB2-H Condition :3m Vertical Mode :11a_TX_5220MHz Test By :Getaz</p> <table border="1"> <thead> <tr> <th>No.</th> <th>Frequency</th> <th>Level</th> <th>Limit</th> <th>Over</th> <th>Read</th> <th>Factor</th> <th>Remark</th> </tr> <tr> <th></th> <th>MHz</th> <th>dBuV/m</th> <th>dBuV/m</th> <th>dB</th> <th>dBuV</th> <th>dB</th> <th></th> </tr> </thead> <tbody> <tr> <td>1</td> <td>10440.000</td> <td>51.70</td> <td>68.20</td> <td>-16.50</td> <td>51.97</td> <td>-0.27</td> <td>Peak</td> </tr> <tr> <td>2</td> <td>15660.000</td> <td>50.88</td> <td>74.00</td> <td>-23.12</td> <td>48.93</td> <td>1.95</td> <td>Peak</td> </tr> </tbody> </table> <p>Note: 1. Level = Read Level + Factor 2. Factor = Antenna Factor + Cable Loss - Preamp Factor 3. Over Limit = Level - Limit Line 4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit. 5. The other emission levels were very low against the limit.</p>	No.	Frequency	Level	Limit	Over	Read	Factor	Remark		MHz	dBuV/m	dBuV/m	dB	dBuV	dB		1	10440.000	51.70	68.20	-16.50	51.97	-0.27	Peak	2	15660.000	50.88	74.00	-23.12	48.93	1.95	Peak
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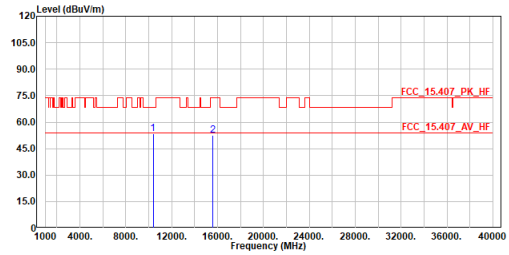
Site :CB2-H
 Condition :3m Horizontal
 Mode :11ac40_TX_5190MHz
 Test By :Cyril



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	10380.000	53.10	68.20	-15.10	53.52	-0.42	Peak
2	15570.000	51.66	74.00	-22.34	49.51	2.15	Peak

- Note:
1. Level = Read Level + Factor
 2. Factor = Antenna Factor + Cable Loss - Preamp Factor
 3. Over Limit = Level - Limit Line
 4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
 5. The other emission levels were very low against the limit.

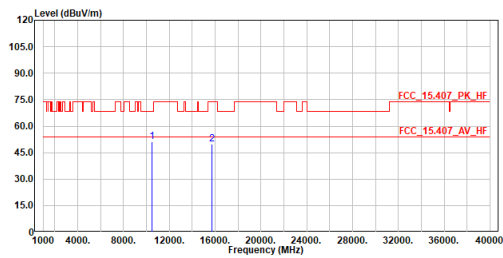
Site :CB2-H
 Condition :3m Vertical
 Mode :11ac40_TX_5190MHz
 Test By :Cyril



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	10380.000	53.23	68.20	-14.97	53.65	-0.42	Peak
2	15570.000	52.40	74.00	-21.60	50.25	2.15	Peak

- Note:
1. Level = Read Level + Factor
 2. Factor = Antenna Factor + Cable Loss - Preamp Factor
 3. Over Limit = Level - Limit Line
 4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
 5. The other emission levels were very low against the limit.

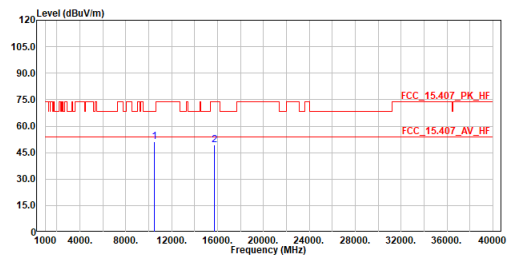
Site :CB2-H
 Condition :3m Horizontal
 Mode :11ac40_TX_5230MHz
 Test By :Cyril



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	10460.000	51.14	68.20	-17.06	51.35	-0.21	Peak
2	15690.000	49.89	74.00	-24.11	48.01	1.88	Peak

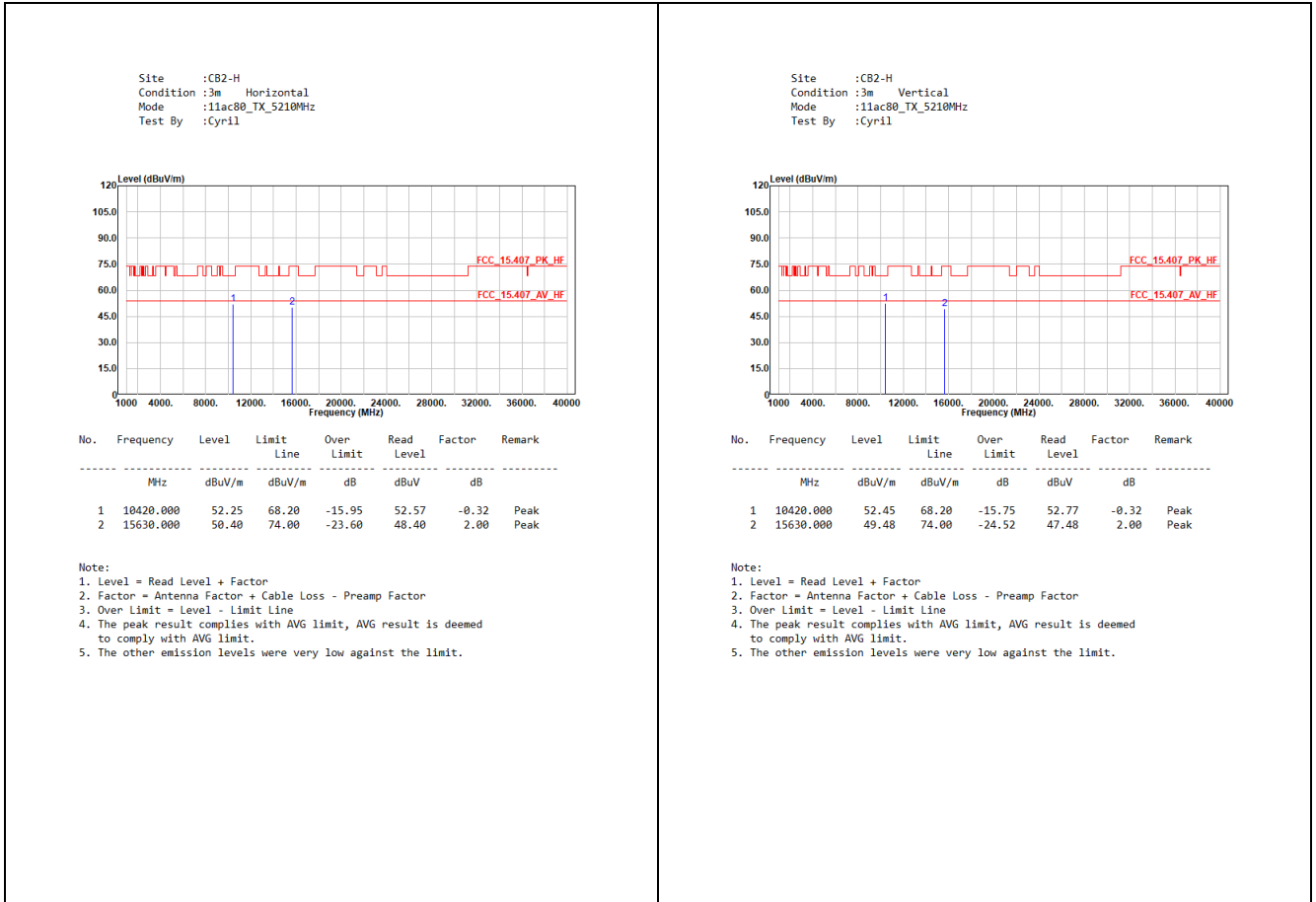
- Note:
1. Level = Read Level + Factor
 2. Factor = Antenna Factor + Cable Loss - Preamp Factor
 3. Over Limit = Level - Limit Line
 4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
 5. The other emission levels were very low against the limit.

Site :CB2-H
 Condition :3m Vertical
 Mode :11ac40_TX_5230MHz
 Test By :Cyril



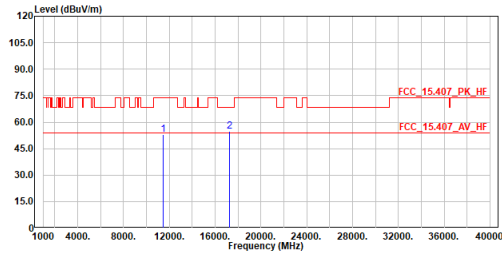
No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	10460.000	51.20	68.20	-17.00	51.41	-0.21	Peak
2	15690.000	49.20	74.00	-24.80	47.32	1.88	Peak

- Note:
1. Level = Read Level + Factor
 2. Factor = Antenna Factor + Cable Loss - Preamp Factor
 3. Over Limit = Level - Limit Line
 4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
 5. The other emission levels were very low against the limit.



For U-NII-3:

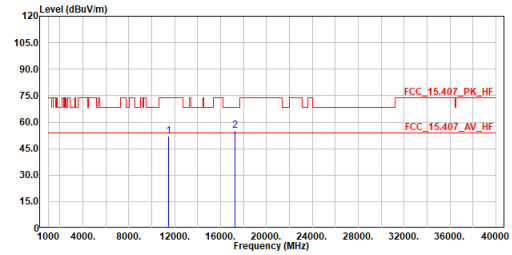
Site :CB2-H
 Condition :3m Horizontal
 Mode :11a_TX_5745MHz
 Test By :Getaz



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	11490.000	53.07	74.00	-20.93	51.86	1.21	Peak
2	17235.000	54.64	68.20	-13.56	50.20	4.44	Peak

Note:
 1. Level = Read Level + Factor
 2. Factor = Antenna Factor + Cable Loss - Preamp Factor
 3. Over Limit = Level - Limit Line
 4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
 5. The other emission levels were very low against the limit.

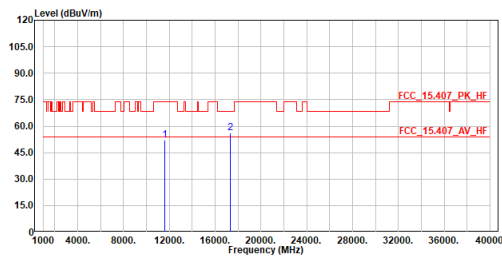
Site :CB2-H
 Condition :3m Vertical
 Mode :11a_TX_5745MHz
 Test By :Getaz



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	11490.000	52.21	74.00	-21.79	51.00	1.21	Peak
2	17235.000	55.07	68.20	-13.13	50.63	4.44	Peak

Note:
 1. Level = Read Level + Factor
 2. Factor = Antenna Factor + Cable Loss - Preamp Factor
 3. Over Limit = Level - Limit Line
 4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
 5. The other emission levels were very low against the limit.

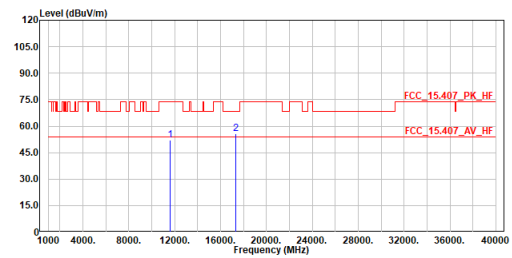
Site :CB2-H
 Condition :3m Horizontal
 Mode :11a_TX_5785MHz
 Test By :Getaz



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	11570.000	52.29	74.00	-21.71	51.15	1.14	Peak
2	17355.000	56.15	68.20	-12.05	51.15	5.00	Peak

Note:
 1. Level = Read Level + Factor
 2. Factor = Antenna Factor + Cable Loss - Preamp Factor
 3. Over Limit = Level - Limit Line
 4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
 5. The other emission levels were very low against the limit.

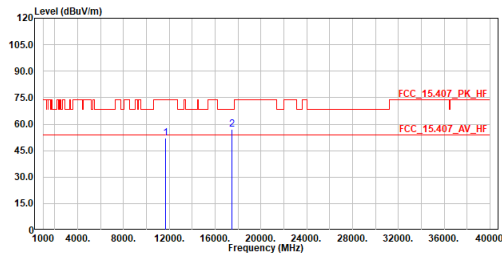
Site :CB2-H
 Condition :3m Vertical
 Mode :11a_TX_5785MHz
 Test By :Getaz



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	11570.000	52.04	74.00	-21.96	50.90	1.14	Peak
2	17355.000	55.82	68.20	-12.38	50.82	5.00	Peak

Note:
 1. Level = Read Level + Factor
 2. Factor = Antenna Factor + Cable Loss - Preamp Factor
 3. Over Limit = Level - Limit Line
 4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
 5. The other emission levels were very low against the limit.

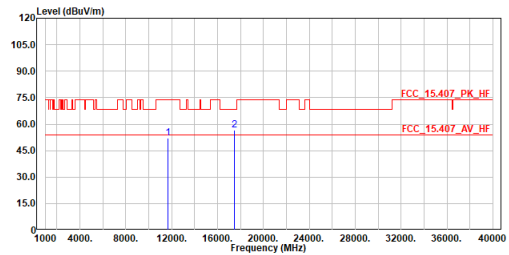
Site :CB2-H
 Condition :3m Horizontal
 Mode :11a_TX_5825MHz
 Test By :Getaz



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	11650.000	52.19	74.00	-21.81	51.14	1.05	Peak
2	17475.000	57.27	68.20	-10.93	51.71	5.56	Peak

Note:
 1. Level = Read Level + Factor
 2. Factor = Antenna Factor + Cable Loss - Preamp Factor
 3. Over Limit = Level - Limit Line
 4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
 5. The other emission levels were very low against the limit.

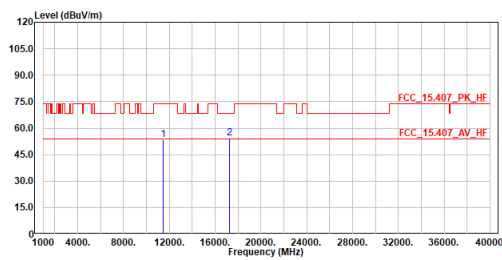
Site :CB2-H
 Condition :3m Vertical
 Mode :11a_TX_5825MHz
 Test By :Getaz



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	11650.000	52.24	74.00	-21.76	51.19	1.05	Peak
2	17475.000	56.60	68.20	-11.60	51.04	5.56	Peak

Note:
 1. Level = Read Level + Factor
 2. Factor = Antenna Factor + Cable Loss - Preamp Factor
 3. Over Limit = Level - Limit Line
 4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
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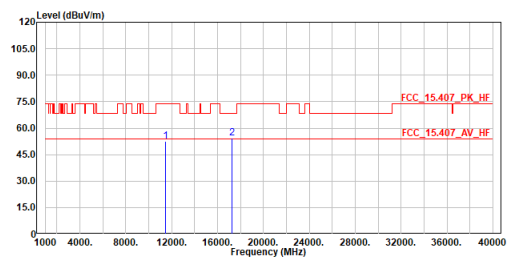
Site :CB2-H
 Condition :3m Horizontal
 Mode :11ac20_TX_5745MHz
 Test By :Cyril



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	11490.000	53.21	74.00	-20.79	52.00	1.21	Peak
2	17235.000	54.31	68.20	-13.89	49.87	4.44	Peak

Note:
 1. Level = Read Level + Factor
 2. Factor = Antenna Factor + Cable Loss - Preamp Factor
 3. Over Limit = Level - Limit Line
 4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
 5. The other emission levels were very low against the limit.

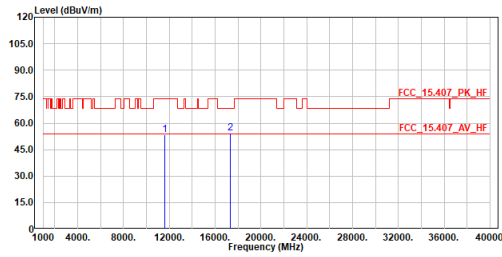
Site :CB2-H
 Condition :3m Vertical
 Mode :11ac20_TX_5745MHz
 Test By :Cyril



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	11490.000	52.66	74.00	-21.34	51.45	1.21	Peak
2	17235.000	54.18	68.20	-14.02	49.74	4.44	Peak

Note:
 1. Level = Read Level + Factor
 2. Factor = Antenna Factor + Cable Loss - Preamp Factor
 3. Over Limit = Level - Limit Line
 4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
 5. The other emission levels were very low against the limit.

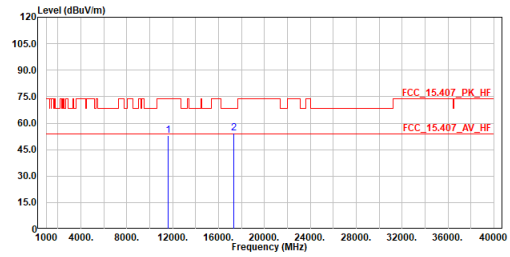
Site :CB2-H
 Condition :3m Horizontal
 Mode :i1ac20_TX_5785MHz
 Test By :Cyril



No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	11570.000	53.49	74.00	-20.51	52.35	1.14	Peak
2	17355.000	54.26	68.20	-13.94	49.26	5.00	Peak

Note:
 1. Level = Read Level + Factor
 2. Factor = Antenna Factor + Cable Loss - Preamp Factor
 3. Over Limit = Level - Limit Line
 4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
 5. The other emission levels were very low against the limit.

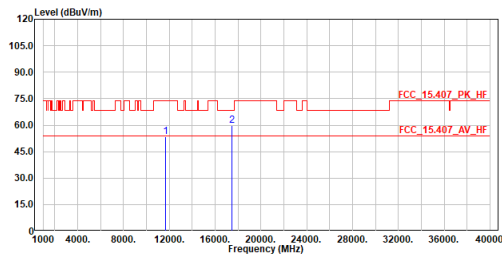
Site :CB2-H
 Condition :3m Vertical
 Mode :i1ac20_TX_5785MHz
 Test By :Cyril



No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	11570.000	53.10	74.00	-20.90	51.96	1.14	Peak
2	17355.000	54.24	68.20	-13.96	49.24	5.00	Peak

Note:
 1. Level = Read Level + Factor
 2. Factor = Antenna Factor + Cable Loss - Preamp Factor
 3. Over Limit = Level - Limit Line
 4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
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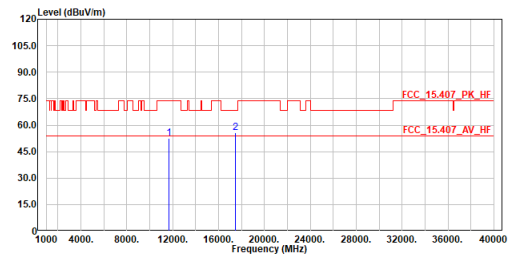
Site :CB2-H
 Condition :3m Horizontal
 Mode :i1ac20_TX_5825MHz
 Test By :Cyril



No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	11650.000	53.40	74.00	-20.60	52.35	1.05	Peak
2	17475.000	59.55	68.20	-8.65	53.99	5.56	Peak

Note:
 1. Level = Read Level + Factor
 2. Factor = Antenna Factor + Cable Loss - Preamp Factor
 3. Over Limit = Level - Limit Line
 4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
 5. The other emission levels were very low against the limit.

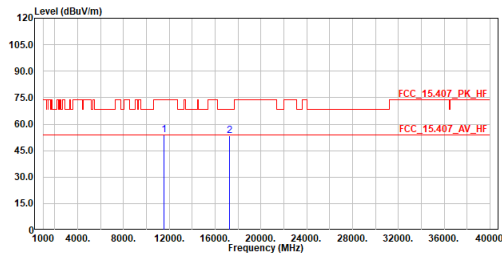
Site :CB2-H
 Condition :3m Vertical
 Mode :i1ac20_TX_5825MHz
 Test By :Cyril



No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	11650.000	52.48	74.00	-21.52	51.43	1.05	Peak
2	17475.000	55.72	68.20	-12.48	50.16	5.56	Peak

Note:
 1. Level = Read Level + Factor
 2. Factor = Antenna Factor + Cable Loss - Preamp Factor
 3. Over Limit = Level - Limit Line
 4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
 5. The other emission levels were very low against the limit.

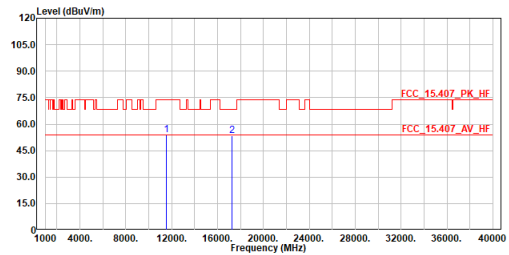
Site :CB2-H
 Condition :3m Horizontal
 Mode :11ac40_TX_5755MHz
 Test By :Cyril



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	11510.000	53.83	74.00	-20.17	52.63	1.20	Peak
2	17265.000	53.34	68.20	-14.86	48.76	4.58	Peak

Note:
 1. Level = Read Level + Factor
 2. Factor = Antenna Factor + Cable Loss - Preamp Factor
 3. Over Limit = Level - Limit Line
 4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
 5. The other emission levels were very low against the limit.

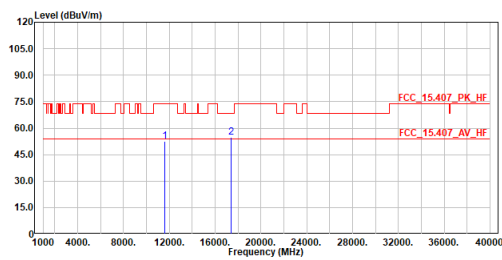
Site :CB2-H
 Condition :3m Vertical
 Mode :11ac40_TX_5755MHz
 Test By :Cyril



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	11510.000	53.75	74.00	-20.25	52.55	1.20	Peak
2	17265.000	53.47	68.20	-14.73	48.89	4.58	Peak

Note:
 1. Level = Read Level + Factor
 2. Factor = Antenna Factor + Cable Loss - Preamp Factor
 3. Over Limit = Level - Limit Line
 4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
 5. The other emission levels were very low against the limit.

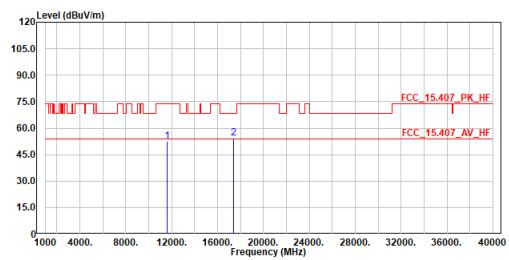
Site :CB2-H
 Condition :3m Horizontal
 Mode :11ac40_TX_5795MHz
 Test By :Cyril



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	11590.000	52.52	74.00	-21.48	51.40	1.12	Peak
2	17385.000	54.70	68.20	-13.50	49.56	5.14	Peak

Note:
 1. Level = Read Level + Factor
 2. Factor = Antenna Factor + Cable Loss - Preamp Factor
 3. Over Limit = Level - Limit Line
 4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
 5. The other emission levels were very low against the limit.

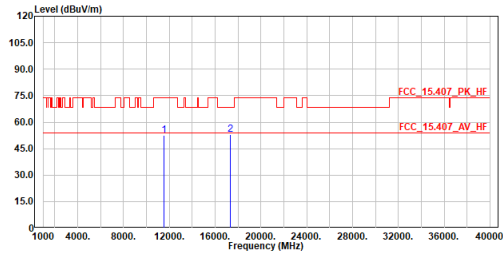
Site :CB2-H
 Condition :3m Vertical
 Mode :11ac40_TX_5795MHz
 Test By :Cyril



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	11590.000	52.39	74.00	-21.61	51.27	1.12	Peak
2	17385.000	54.50	68.20	-13.70	49.36	5.14	Peak

Note:
 1. Level = Read Level + Factor
 2. Factor = Antenna Factor + Cable Loss - Preamp Factor
 3. Over Limit = Level - Limit Line
 4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
 5. The other emission levels were very low against the limit.

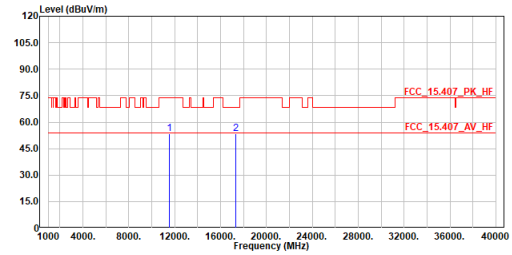
Site :CB2-H
 Condition :3m Horizontal
 Mode :11ac80_TX_5775MHz
 Test By :Cyril



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	11550.000	52.52	74.00	-21.48	51.36	1.16	Peak
2	17325.000	52.88	68.20	-15.32	48.02	4.86	Peak

Note:
 1. Level = Read Level + Factor
 2. Factor = Antenna Factor + Cable Loss - Preamp Factor
 3. Over Limit = Level - Limit Line
 4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
 5. The other emission levels were very low against the limit.

Site :CB2-H
 Condition :3m Vertical
 Mode :11ac80_TX_5775MHz
 Test By :Cyril

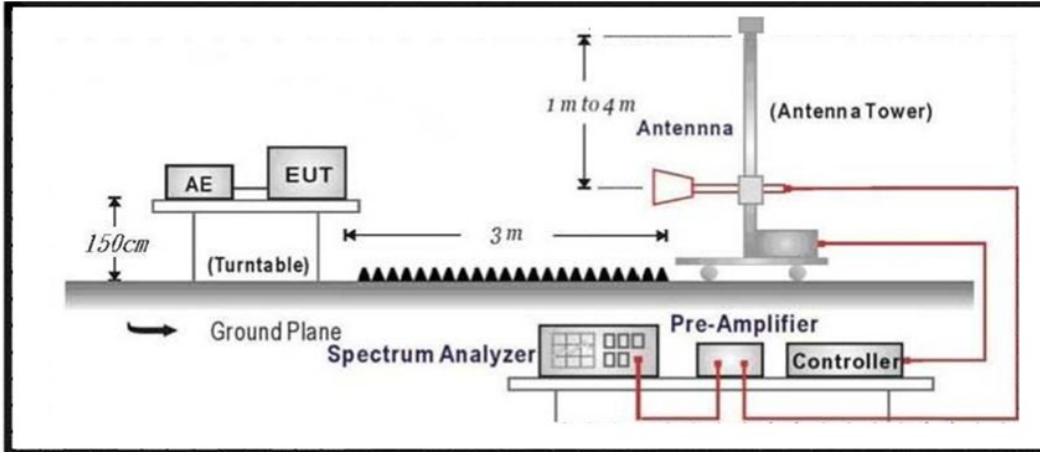


No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	11550.000	53.24	74.00	-20.76	52.08	1.16	Peak
2	17325.000	53.39	68.20	-14.81	48.53	4.86	Peak

Note:
 1. Level = Read Level + Factor
 2. Factor = Antenna Factor + Cable Loss - Preamp Factor
 3. Over Limit = Level - Limit Line
 4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
 5. The other emission levels were very low against the limit.

8. Radiated Emission Band Edge

8.1. Test Setup



8.2. Test Limit

General Radiated Emission Test Limit

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 30 dB below the level of the fundamental or to the general radiated emission limit in paragraph 15.209, whichever is the lesser attenuation.

Frequency (MHz)	Field strength (uV/m)	Field strength (dBuV/m)	Measurement distance (m)
30 - 88	100	40	3
88 - 216	150	43.5	3
216 - 960	200	46	3
Above 960	500	54	3

Remarks:

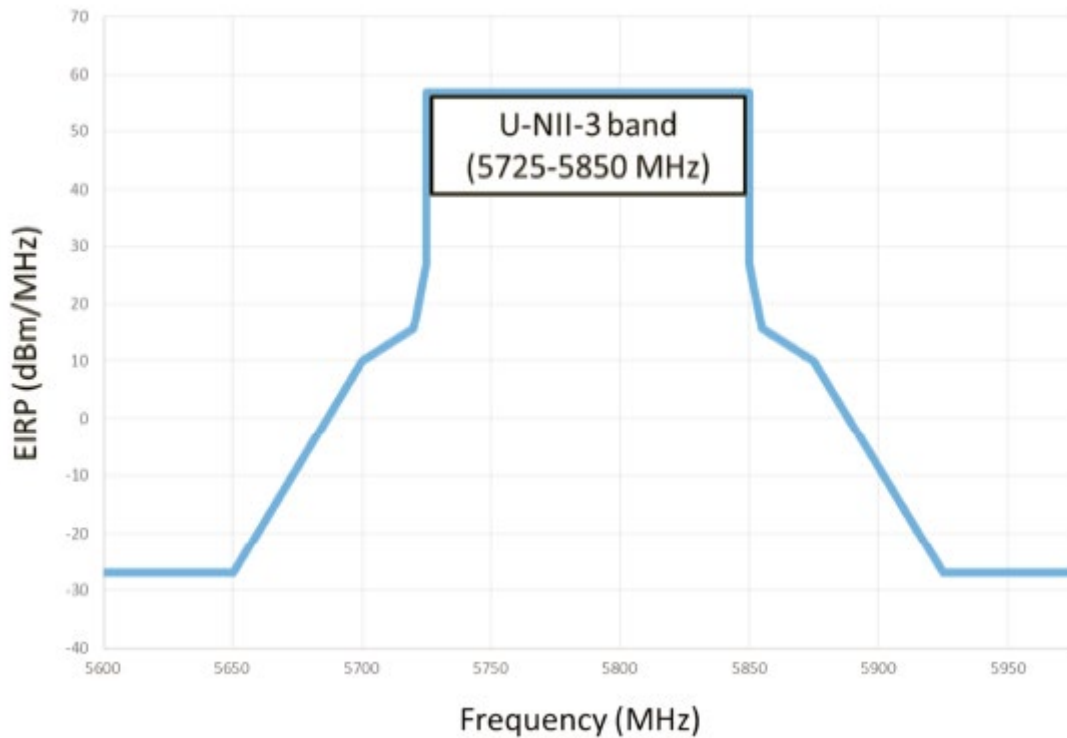
1. Field strength (dBuV/m) = 20 log Field strength (uV/m)
2. In the Above Table, the tighter limit applies at the band edges.
3. Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system

Unwanted Emission out of the restricted bands Test Limit

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

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 27 dBm/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: 2013 on radiated measurement.

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

8.4. Test Specification

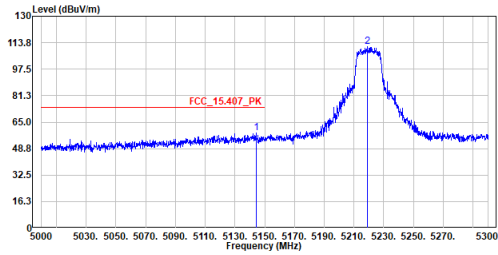
According to FCC CFR Title 47 Part 15 Subpart E.

8.5. Test Result of Radiated Emission Band Edge

For U-NII-1:

<p>Site :CB2-H Condition :3m Horizontal Mode :11a_TX_5180MHz Test By :Ling</p> <table border="1"> <thead> <tr> <th>No.</th> <th>Frequency MHz</th> <th>Level dBuV/m</th> <th>Limit Line dBuV/m</th> <th>Over Limit dB</th> <th>Read Level dBuV</th> <th>Factor dB</th> <th>Remark</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>5146.850</td> <td>65.88</td> <td>74.00</td> <td>-8.12</td> <td>41.72</td> <td>24.16</td> <td>Peak</td> </tr> <tr> <td>2</td> <td>5182.100</td> <td>110.51</td> <td>-----</td> <td>-----</td> <td>86.22</td> <td>24.29</td> <td>Peak</td> </tr> </tbody> </table> <p>Note: 1. Level = Read Level + Factor 2. Factor = Antenna Factor + Cable Loss - Preamp Factor 3. Over Limit = Level - Limit Line 4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit. 5. The other emission levels were very low against the limit.</p>	No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark	1	5146.850	65.88	74.00	-8.12	41.72	24.16	Peak	2	5182.100	110.51	-----	-----	86.22	24.29	Peak	<p>Site :CB2-H Condition :3m Horizontal Mode :11a_TX_5180MHz Test By :Ling</p> <table border="1"> <thead> <tr> <th>No.</th> <th>Frequency MHz</th> <th>Level dBuV/m</th> <th>Limit Line dBuV/m</th> <th>Over Limit dB</th> <th>Read Level dBuV</th> <th>Factor dB</th> <th>Remark</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>5150.000</td> <td>50.48</td> <td>54.00</td> <td>-3.52</td> <td>26.31</td> <td>24.17</td> <td>Average</td> </tr> <tr> <td>2</td> <td>5178.950</td> <td>101.66</td> <td>-----</td> <td>-----</td> <td>77.38</td> <td>24.28</td> <td>Average</td> </tr> </tbody> </table> <p>Note: 1. Level = Read Level + Factor 2. Factor = Antenna Factor + Cable Loss - Preamp Factor 3. Over Limit = Level - Limit Line 4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit. 5. The other emission levels were very low against the limit.</p>	No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark	1	5150.000	50.48	54.00	-3.52	26.31	24.17	Average	2	5178.950	101.66	-----	-----	77.38	24.28	Average
No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark																																										
1	5146.850	65.88	74.00	-8.12	41.72	24.16	Peak																																										
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<p>Site :CB2-H Condition :3m Vertical Mode :11a_TX_5180MHz Test By :Ling</p> <table border="1"> <thead> <tr> <th>No.</th> <th>Frequency MHz</th> <th>Level dBuV/m</th> <th>Limit Line dBuV/m</th> <th>Over Limit dB</th> <th>Read Level dBuV</th> <th>Factor dB</th> <th>Remark</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>5149.400</td> <td>65.49</td> <td>74.00</td> <td>-8.51</td> <td>41.32</td> <td>24.17</td> <td>Peak</td> </tr> <tr> <td>2</td> <td>5174.300</td> <td>113.01</td> <td>-----</td> <td>-----</td> <td>88.75</td> <td>24.26</td> <td>Peak</td> </tr> </tbody> </table> <p>Note: 1. Level = Read Level + Factor 2. Factor = Antenna Factor + Cable Loss - Preamp Factor 3. Over Limit = Level - Limit Line 4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit. 5. The other emission levels were very low against the limit.</p>	No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark	1	5149.400	65.49	74.00	-8.51	41.32	24.17	Peak	2	5174.300	113.01	-----	-----	88.75	24.26	Peak	<p>Site :CB2-H Condition :3m Vertical Mode :11a_TX_5180MHz Test By :Ling</p> <table border="1"> <thead> <tr> <th>No.</th> <th>Frequency MHz</th> <th>Level dBuV/m</th> <th>Limit Line dBuV/m</th> <th>Over Limit dB</th> <th>Read Level dBuV</th> <th>Factor dB</th> <th>Remark</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>5150.000</td> <td>53.50</td> <td>54.00</td> <td>-0.50</td> <td>29.33</td> <td>24.17</td> <td>Average</td> </tr> <tr> <td>2</td> <td>5181.500</td> <td>103.71</td> <td>-----</td> <td>-----</td> <td>79.42</td> <td>24.29</td> <td>Average</td> </tr> </tbody> </table> <p>Note: 1. Level = Read Level + Factor 2. Factor = Antenna Factor + Cable Loss - Preamp Factor 3. Over Limit = Level - Limit Line 4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit. 5. The other emission levels were very low against the limit.</p>	No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark	1	5150.000	53.50	54.00	-0.50	29.33	24.17	Average	2	5181.500	103.71	-----	-----	79.42	24.29	Average
No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark																																										
1	5149.400	65.49	74.00	-8.51	41.32	24.17	Peak																																										
2	5174.300	113.01	-----	-----	88.75	24.26	Peak																																										
No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark																																										
1	5150.000	53.50	54.00	-0.50	29.33	24.17	Average																																										
2	5181.500	103.71	-----	-----	79.42	24.29	Average																																										

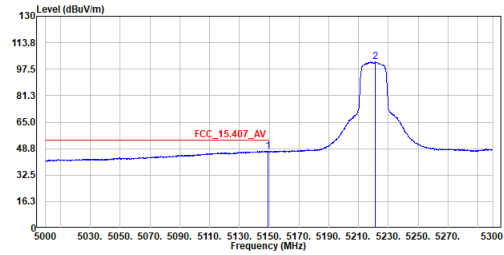
Site :CB2-H
 Condition :3m Horizontal
 Mode :11a_TX_5220MHz
 Test By :Ling



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	5144.300	58.41	74.00	-15.59	34.25	24.16	Peak
2	5219.000	111.19	-----	-----	86.77	24.42	Peak

Note:
 1. Level = Read Level + Factor
 2. Factor = Antenna Factor + Cable Loss - Preamp Factor
 3. Over Limit = Level - Limit Line
 4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
 5. The other emission levels were very low against the limit.

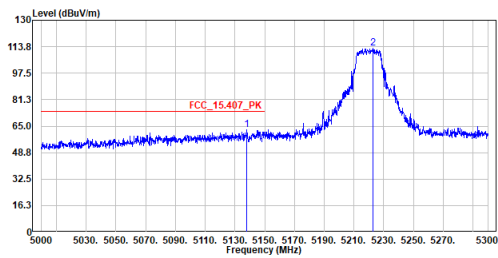
Site :CB2-H
 Condition :3m Horizontal
 Mode :11a_TX_5220MHz
 Test By :Ling



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	5149.250	47.18	54.00	-6.82	23.01	24.17	Average
2	5220.950	101.90	-----	-----	77.48	24.42	Average

Note:
 1. Level = Read Level + Factor
 2. Factor = Antenna Factor + Cable Loss - Preamp Factor
 3. Over Limit = Level - Limit Line
 4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
 5. The other emission levels were very low against the limit.

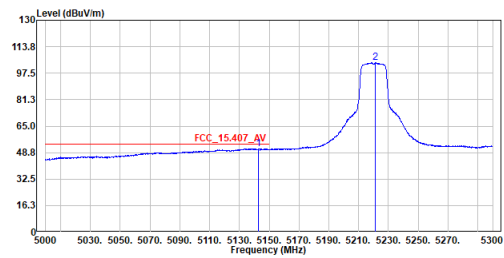
Site :CB2-H
 Condition :3m Vertical
 Mode :11a_TX_5220MHz
 Test By :Ling



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	5138.000	62.56	74.00	-11.44	38.43	24.13	Peak
2	5222.900	112.66	-----	-----	88.24	24.42	Peak

Note:
 1. Level = Read Level + Factor
 2. Factor = Antenna Factor + Cable Loss - Preamp Factor
 3. Over Limit = Level - Limit Line
 4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
 5. The other emission levels were very low against the limit.

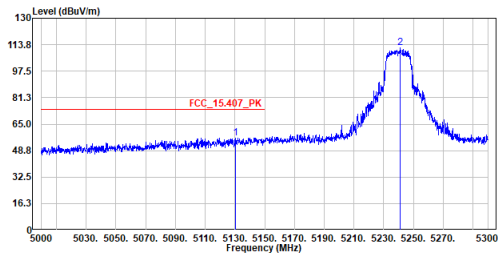
Site :CB2-H
 Condition :3m Vertical
 Mode :11a_TX_5220MHz
 Test By :Ling



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	5142.650	51.07	54.00	-2.93	26.92	24.15	Average
2	5221.400	104.06	-----	-----	79.64	24.42	Average

Note:
 1. Level = Read Level + Factor
 2. Factor = Antenna Factor + Cable Loss - Preamp Factor
 3. Over Limit = Level - Limit Line
 4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
 5. The other emission levels were very low against the limit.

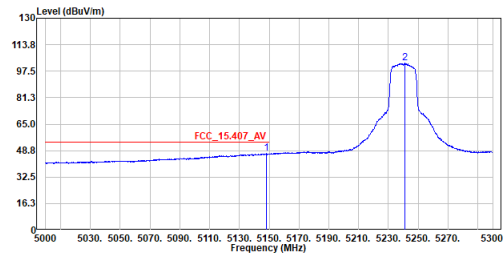
Site :CB2-H
 Condition :3m Horizontal
 Mode :11a_TX_5240MHz
 Test By :Ling



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	5130.350	56.61	74.00	-17.39	32.50	24.11	Peak
2	5240.900	111.69	-----	-----	87.19	24.50	Peak

Note:
 1. Level = Read Level + Factor
 2. Factor = Antenna Factor + Cable Loss - Preamp Factor
 3. Over Limit = Level - Limit Line
 4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
 5. The other emission levels were very low against the limit.

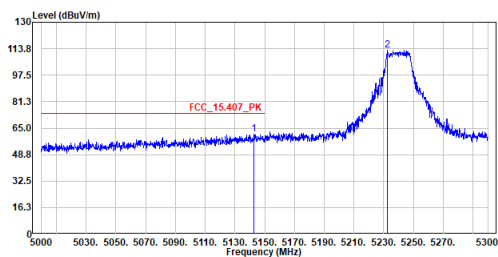
Site :CB2-H
 Condition :3m Horizontal
 Mode :11a_TX_5240MHz
 Test By :Ling



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	5148.200	46.86	54.00	-7.14	22.69	24.17	Average
2	5241.200	102.28	-----	-----	77.78	24.50	Average

Note:
 1. Level = Read Level + Factor
 2. Factor = Antenna Factor + Cable Loss - Preamp Factor
 3. Over Limit = Level - Limit Line
 4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
 5. The other emission levels were very low against the limit.

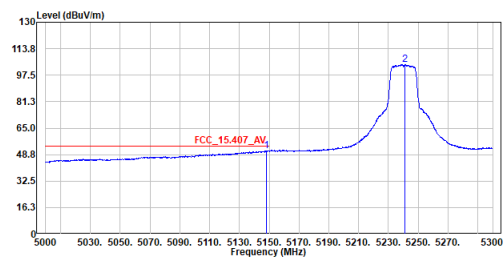
Site :CB2-H
 Condition :3m Vertical
 Mode :11a_TX_5240MHz
 Test By :Ling



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	5142.800	61.52	74.00	-12.48	37.37	24.15	Peak
2	5232.350	112.73	-----	-----	88.26	24.47	Peak

Note:
 1. Level = Read Level + Factor
 2. Factor = Antenna Factor + Cable Loss - Preamp Factor
 3. Over Limit = Level - Limit Line
 4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
 5. The other emission levels were very low against the limit.

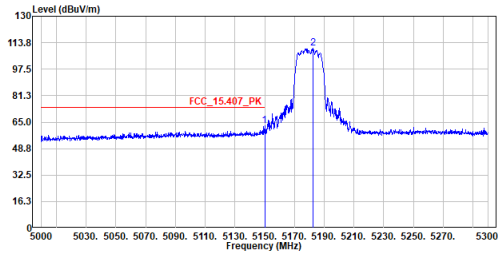
Site :CB2-H
 Condition :3m Vertical
 Mode :11a_TX_5240MHz
 Test By :Ling



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	5147.900	51.05	54.00	-2.95	26.89	24.16	Average
2	5241.200	103.98	-----	-----	79.48	24.50	Average

Note:
 1. Level = Read Level + Factor
 2. Factor = Antenna Factor + Cable Loss - Preamp Factor
 3. Over Limit = Level - Limit Line
 4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
 5. The other emission levels were very low against the limit.

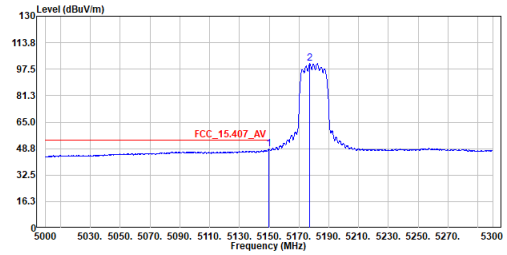
Site :CB2-H
 Condition :3m Horizontal
 Mode :11ac20_TX_5180MHz
 Test By :Cyril



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	5150.000	62.98	74.00	-11.02	38.81	24.17	Peak
2	5182.250	110.21	-----	-----	85.92	24.29	Peak

Note:
 1. Level = Read Level + Factor
 2. Factor = Antenna Factor + Cable Loss - Preamp Factor
 3. Over Limit = Level - Limit Line
 4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
 5. The other emission levels were very low against the limit.

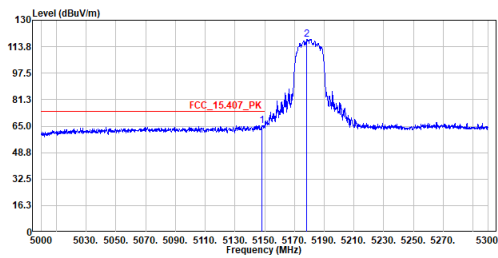
Site :CB2-H
 Condition :3m Horizontal
 Mode :11ac20_TX_5180MHz
 Test By :Cyril



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	5149.700	48.32	54.00	-5.68	24.15	24.17	Average
2	5177.300	100.87	-----	-----	76.59	24.28	Average

Note:
 1. Level = Read Level + Factor
 2. Factor = Antenna Factor + Cable Loss - Preamp Factor
 3. Over Limit = Level - Limit Line
 4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
 5. The other emission levels were very low against the limit.

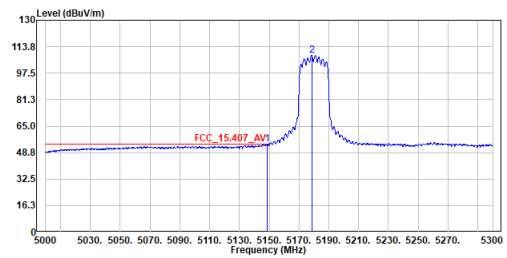
Site :CB2-H
 Condition :3m Vertical
 Mode :11ac20_TX_5180MHz
 Test By :Cyril



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	5148.350	65.41	74.00	-8.59	41.24	24.17	Peak
2	5178.200	118.30	-----	-----	94.02	24.28	Peak

Note:
 1. Level = Read Level + Factor
 2. Factor = Antenna Factor + Cable Loss - Preamp Factor
 3. Over Limit = Level - Limit Line
 4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
 5. The other emission levels were very low against the limit.

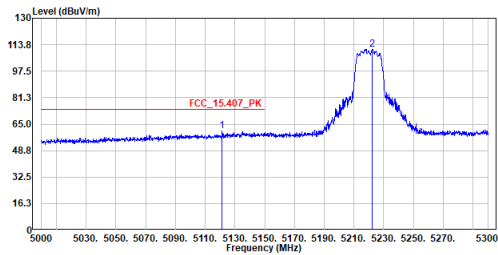
Site :CB2-H
 Condition :3m Vertical
 Mode :11ac20_TX_5180MHz
 Test By :Cyril



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	5148.800	53.91	54.00	-0.09	29.74	24.17	Average
2	5178.650	108.57	-----	-----	84.29	24.28	Average

Note:
 1. Level = Read Level + Factor
 2. Factor = Antenna Factor + Cable Loss - Preamp Factor
 3. Over Limit = Level - Limit Line
 4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
 5. The other emission levels were very low against the limit.

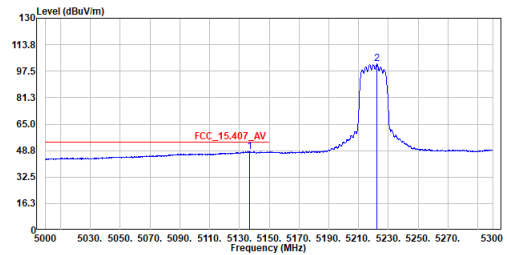
Site :CB2-H
 Condition :3m Horizontal
 Mode :11ac20_TX_5220MHz
 Test By :Cyril



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	5121.500	60.99	74.00	-13.01	36.92	24.07	Peak
2	5222.450	111.08	-----	-----	86.66	24.42	Peak

Note:
 1. Level = Read Level + Factor
 2. Factor = Antenna Factor + Cable Loss - Preamp Factor
 3. Over Limit = Level - Limit Line
 4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
 5. The other emission levels were very low against the limit.

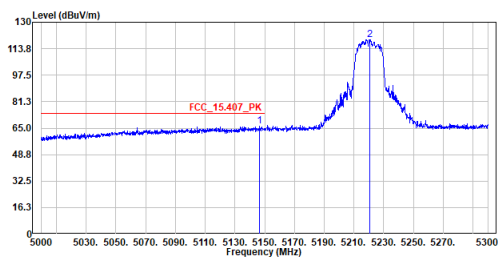
Site :CB2-H
 Condition :3m Horizontal
 Mode :11ac20_TX_5220MHz
 Test By :Cyril



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	5137.100	48.09	54.00	-5.91	23.96	24.13	Average
2	5222.300	101.87	-----	-----	77.45	24.42	Average

Note:
 1. Level = Read Level + Factor
 2. Factor = Antenna Factor + Cable Loss - Preamp Factor
 3. Over Limit = Level - Limit Line
 4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
 5. The other emission levels were very low against the limit.

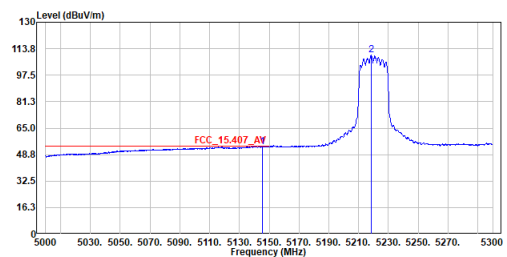
Site :CB2-H
 Condition :3m Vertical
 Mode :11ac20_TX_5220MHz
 Test By :Cyril



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	5146.550	65.99	74.00	-8.01	41.83	24.16	Peak
2	5220.500	119.12	-----	-----	94.70	24.42	Peak

Note:
 1. Level = Read Level + Factor
 2. Factor = Antenna Factor + Cable Loss - Preamp Factor
 3. Over Limit = Level - Limit Line
 4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
 5. The other emission levels were very low against the limit.

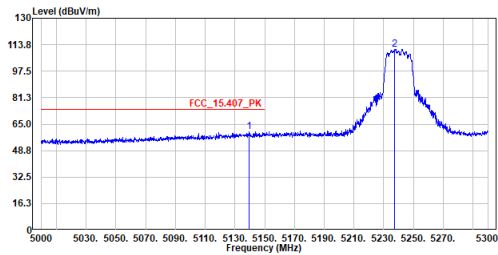
Site :CB2-H
 Condition :3m Vertical
 Mode :11ac20_TX_5220MHz
 Test By :Cyril



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	5145.650	53.71	54.00	-0.29	29.55	24.16	Average
2	5218.400	109.84	-----	-----	85.43	24.41	Average

Note:
 1. Level = Read Level + Factor
 2. Factor = Antenna Factor + Cable Loss - Preamp Factor
 3. Over Limit = Level - Limit Line
 4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
 5. The other emission levels were very low against the limit.

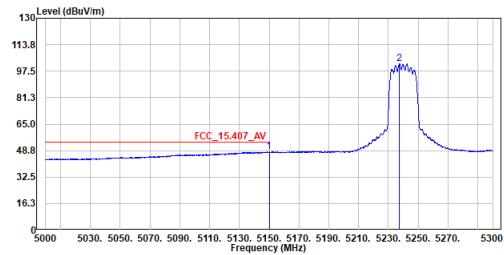
Site :CB2-H
 Condition :3m Horizontal
 Mode :11ac20_TX_5240MHz
 Test By :Cyril



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	5139.350	60.45	74.00	-13.55	36.31	24.14	Peak
2	5237.300	111.06	-----	-----	86.58	24.48	Peak

Note:
 1. Level = Read Level + Factor
 2. Factor = Antenna Factor + Cable Loss - Preamp Factor
 3. Over Limit = Level - Limit Line
 4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
 5. The other emission levels were very low against the limit.

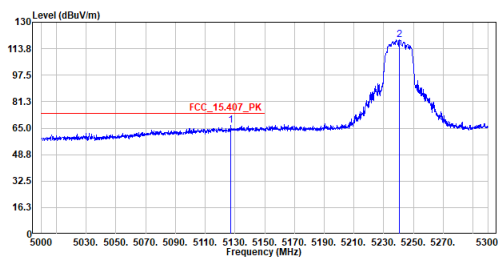
Site :CB2-H
 Condition :3m Horizontal
 Mode :11ac20_TX_5240MHz
 Test By :Cyril



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	5150.000	47.90	54.00	-6.10	23.73	24.17	Average
2	5237.450	102.08	-----	-----	77.60	24.48	Average

Note:
 1. Level = Read Level + Factor
 2. Factor = Antenna Factor + Cable Loss - Preamp Factor
 3. Over Limit = Level - Limit Line
 4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
 5. The other emission levels were very low against the limit.

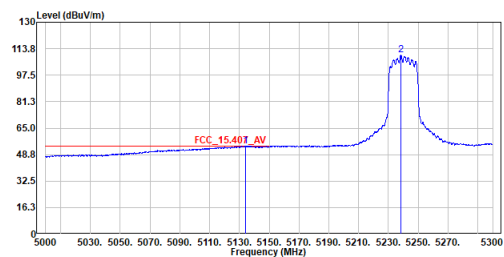
Site :CB2-H
 Condition :3m Vertical
 Mode :11ac20_TX_5240MHz
 Test By :Cyril



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	5127.350	66.67	74.00	-7.33	42.57	24.10	Peak
2	5240.450	119.20	-----	-----	94.70	24.50	Peak

Note:
 1. Level = Read Level + Factor
 2. Factor = Antenna Factor + Cable Loss - Preamp Factor
 3. Over Limit = Level - Limit Line
 4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
 5. The other emission levels were very low against the limit.

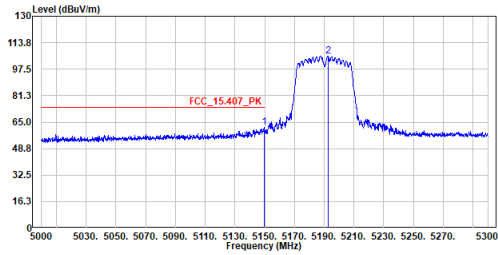
Site :CB2-H
 Condition :3m Vertical
 Mode :11ac20_TX_5240MHz
 Test By :Cyril



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	5134.400	53.92	54.00	-0.08	29.80	24.12	Average
2	5238.350	110.03	-----	-----	85.55	24.48	Average

Note:
 1. Level = Read Level + Factor
 2. Factor = Antenna Factor + Cable Loss - Preamp Factor
 3. Over Limit = Level - Limit Line
 4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
 5. The other emission levels were very low against the limit.

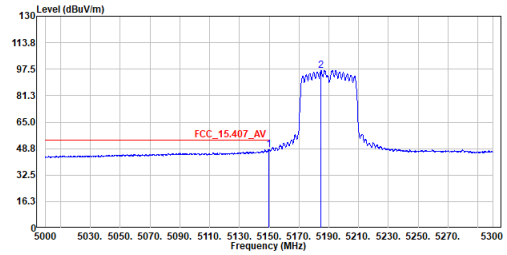
Site :CB2-H
 Condition :3m Horizontal
 Mode :11ac40_TX_5190MHz
 Test By :Cyril



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	5149.700	61.70	74.00	-12.30	37.53	24.17	Peak
2	5192.450	105.65	-----	-----	81.33	24.32	Peak

Note:
 1. Level = Read Level + Factor
 2. Factor = Antenna Factor + Cable Loss - Preamp Factor
 3. Over Limit = Level - Limit Line
 4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
 5. The other emission levels were very low against the limit.

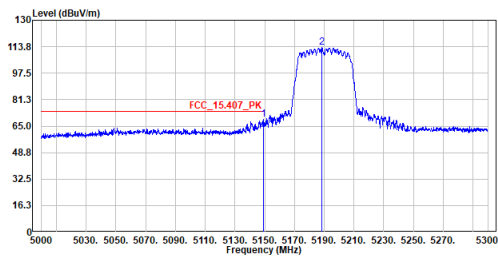
Site :CB2-H
 Condition :3m Horizontal
 Mode :11ac40_TX_5190MHz
 Test By :Cyril



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	5149.850	48.23	54.00	-5.77	24.06	24.17	Average
2	5184.650	96.64	-----	-----	72.34	24.30	Average

Note:
 1. Level = Read Level + Factor
 2. Factor = Antenna Factor + Cable Loss - Preamp Factor
 3. Over Limit = Level - Limit Line
 4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
 5. The other emission levels were very low against the limit.

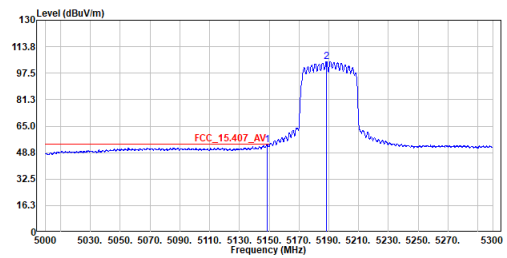
Site :CB2-H
 Condition :3m Vertical
 Mode :11ac40_TX_5190MHz
 Test By :Cyril



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	5149.250	68.97	74.00	-5.03	44.80	24.17	Peak
2	5188.400	113.30	-----	-----	88.99	24.31	Peak

Note:
 1. Level = Read Level + Factor
 2. Factor = Antenna Factor + Cable Loss - Preamp Factor
 3. Over Limit = Level - Limit Line
 4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
 5. The other emission levels were very low against the limit.

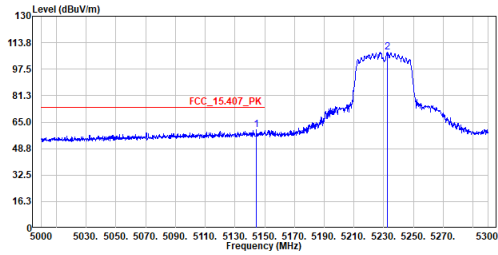
Site :CB2-H
 Condition :3m Vertical
 Mode :11ac40_TX_5190MHz
 Test By :Cyril



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	5148.800	53.60	54.00	-0.40	29.43	24.17	Average
2	5188.550	104.73	-----	-----	80.42	24.31	Average

Note:
 1. Level = Read Level + Factor
 2. Factor = Antenna Factor + Cable Loss - Preamp Factor
 3. Over Limit = Level - Limit Line
 4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
 5. The other emission levels were very low against the limit.

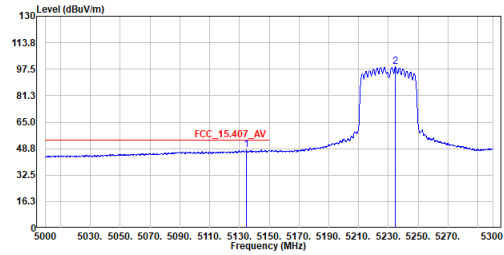
Site :CB2-H
 Condition :3m Horizontal
 Mode :11ac40_TX_5230MHz
 Test By :Cyril



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	5144.450	60.33	74.00	-13.67	36.17	24.16	Peak
2	5232.650	107.81	-----	-----	83.34	24.47	Peak

Note:
 1. Level = Read Level + Factor
 2. Factor = Antenna Factor + Cable Loss - Preamp Factor
 3. Over Limit = Level - Limit Line
 4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
 5. The other emission levels were very low against the limit.

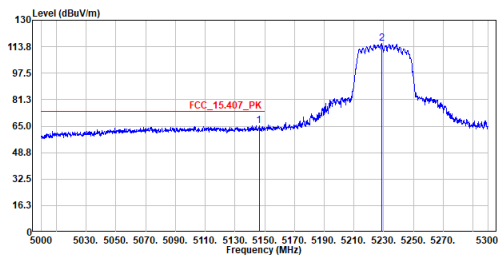
Site :CB2-H
 Condition :3m Horizontal
 Mode :11ac40_TX_5230MHz
 Test By :Cyril



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	5134.700	47.93	54.00	-6.07	23.81	24.12	Average
2	5234.750	98.86	-----	-----	74.39	24.47	Average

Note:
 1. Level = Read Level + Factor
 2. Factor = Antenna Factor + Cable Loss - Preamp Factor
 3. Over Limit = Level - Limit Line
 4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
 5. The other emission levels were very low against the limit.

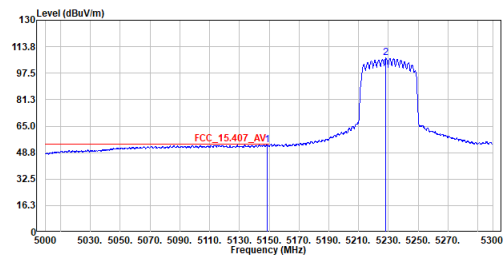
Site :CB2-H
 Condition :3m Vertical
 Mode :11ac40_TX_5230MHz
 Test By :Cyril



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	5146.250	65.20	74.00	-8.80	41.04	24.16	Peak
2	5228.450	115.54	-----	-----	91.08	24.46	Peak

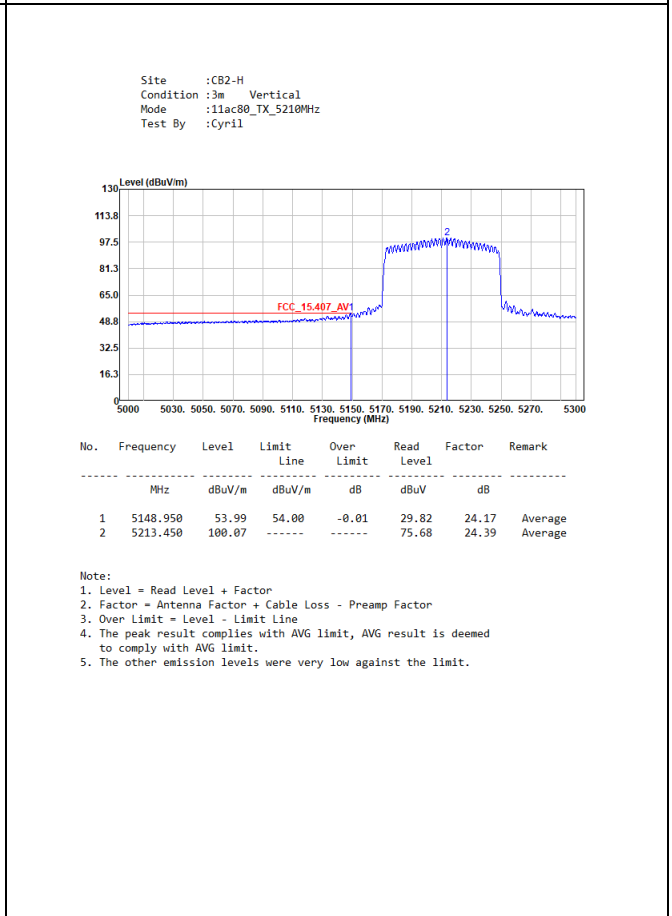
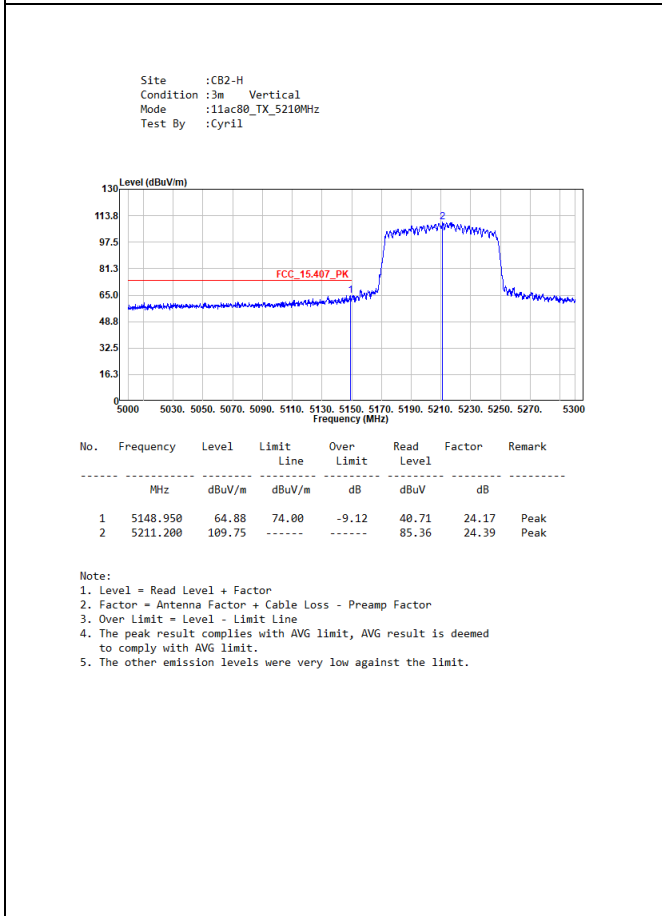
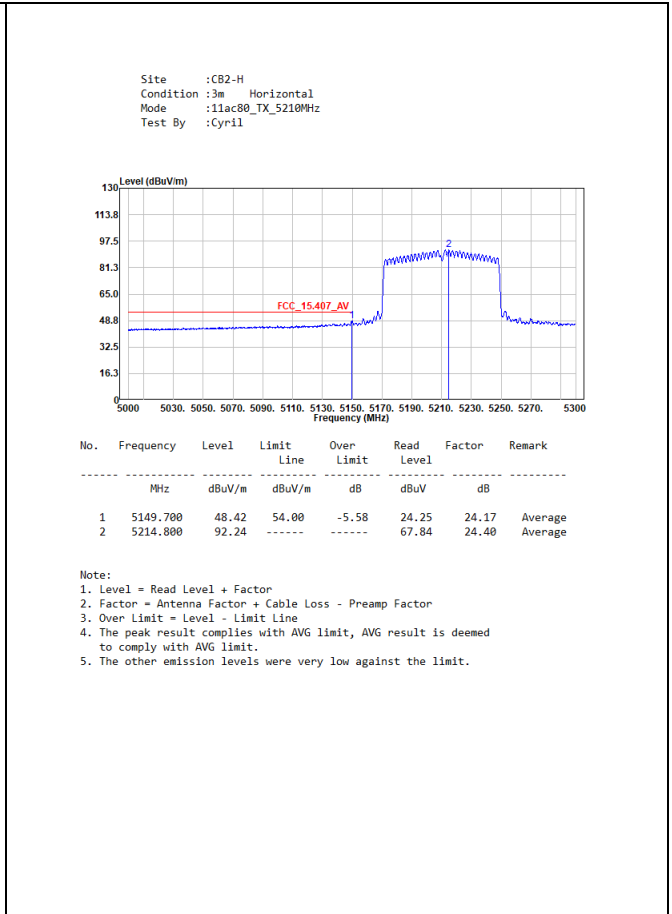
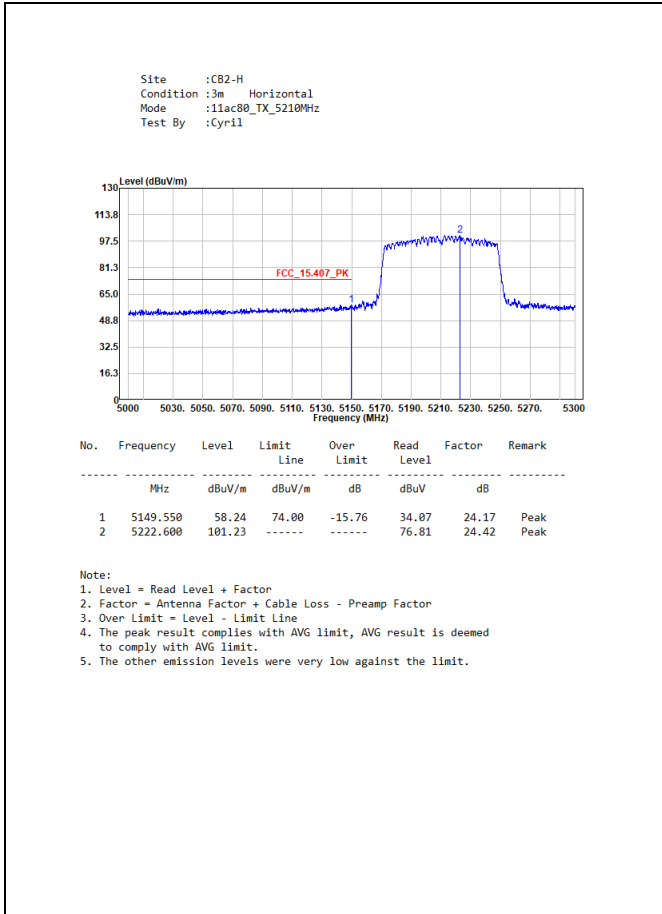
Note:
 1. Level = Read Level + Factor
 2. Factor = Antenna Factor + Cable Loss - Preamp Factor
 3. Over Limit = Level - Limit Line
 4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
 5. The other emission levels were very low against the limit.

Site :CB2-H
 Condition :3m Vertical
 Mode :11ac40_TX_5230MHz
 Test By :Cyril



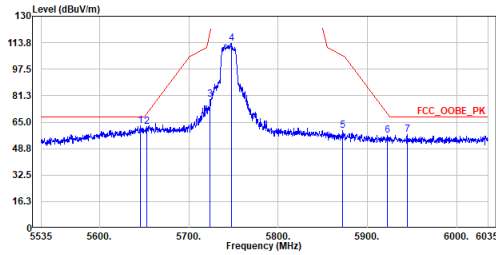
No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	5148.800	53.62	54.00	-0.38	29.45	24.17	Average
2	5228.300	106.72	-----	-----	82.26	24.46	Average

Note:
 1. Level = Read Level + Factor
 2. Factor = Antenna Factor + Cable Loss - Preamp Factor
 3. Over Limit = Level - Limit Line
 4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
 5. The other emission levels were very low against the limit.



For U-NII-3:

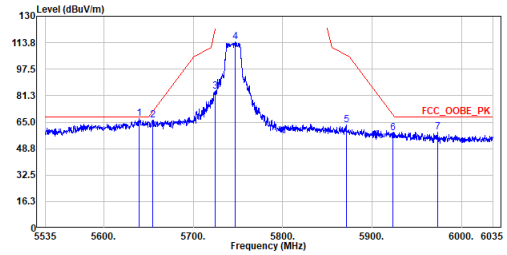
Site :CB2-H
 Condition :3m Horizontal
 Mode :11a_TX_5745MHz
 Test By :Getaz



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	5646.000	62.99	68.20	-5.21	36.81	26.18	Peak
2	5653.000	62.37	70.43	-8.06	36.16	26.21	Peak
3	5724.000	79.17	119.92	-40.75	52.58	26.59	Peak
4	5748.250	113.41	-----	-----	86.69	26.72	Peak
5	5872.500	60.04	105.90	-45.86	32.66	27.38	Peak
6	5922.750	56.83	69.87	-13.04	29.19	27.64	Peak
7	5944.500	57.20	68.20	-11.00	29.43	27.77	Peak

Note:
 1. Level = Read Level + Factor
 2. Factor = Antenna Factor + Cable Loss - Preamp Factor
 3. Over Limit = Level - Limit Line
 4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
 5. The other emission levels were very low against the limit.

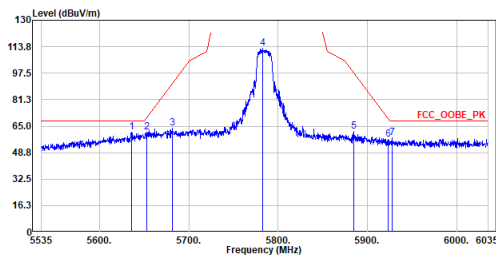
Site :CB2-H
 Condition :3m Vertical
 Mode :11a_TX_5745MHz
 Test By :Getaz



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	5639.500	67.34	68.20	-0.86	41.20	26.14	Peak
2	5655.000	66.09	71.91	-5.82	39.87	26.22	Peak
3	5725.000	83.89	122.20	-38.31	57.30	26.59	Peak
4	5747.250	114.15	-----	-----	87.43	26.72	Peak
5	5871.000	63.17	106.32	-43.15	35.79	27.38	Peak
6	5923.250	58.36	69.50	-11.14	30.72	27.64	Peak
7	5973.500	59.07	68.20	-9.13	31.16	27.91	Peak

Note:
 1. Level = Read Level + Factor
 2. Factor = Antenna Factor + Cable Loss - Preamp Factor
 3. Over Limit = Level - Limit Line
 4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
 5. The other emission levels were very low against the limit.

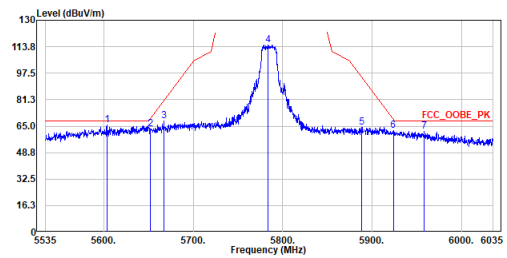
Site :CB2-H
 Condition :3m Horizontal
 Mode :11a_TX_5785MHz
 Test By :Getaz



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	5636.250	61.36	68.20	-6.84	35.24	26.12	Peak
2	5652.750	61.24	70.24	-9.00	35.03	26.21	Peak
3	5682.000	63.63	91.88	-28.25	37.26	26.37	Peak
4	5782.750	112.70	-----	-----	85.79	26.91	Peak
5	5804.500	61.63	98.17	-36.54	34.19	27.44	Peak
6	5923.500	56.97	69.32	-12.35	29.33	27.64	Peak
7	5927.750	57.87	68.20	-10.33	30.19	27.68	Peak

Note:
 1. Level = Read Level + Factor
 2. Factor = Antenna Factor + Cable Loss - Preamp Factor
 3. Over Limit = Level - Limit Line
 4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
 5. The other emission levels were very low against the limit.

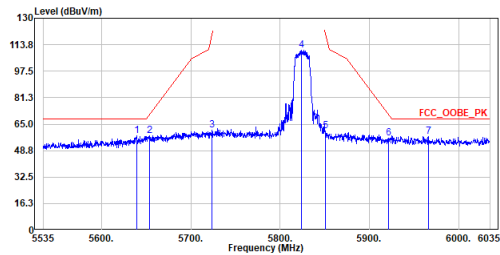
Site :CB2-H
 Condition :3m Vertical
 Mode :11a_TX_5785MHz
 Test By :Getaz



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	5603.500	65.67	68.20	-2.53	39.72	25.95	Peak
2	5651.750	63.36	69.50	-6.14	37.15	26.21	Peak
3	5667.250	68.06	80.97	-12.91	41.77	26.29	Peak
4	5783.750	114.93	-----	-----	88.02	26.91	Peak
5	5888.000	64.29	95.50	-31.20	36.83	27.46	Peak
6	5923.750	62.28	69.13	-6.85	34.63	27.65	Peak
7	5958.250	61.87	68.20	-6.33	34.04	27.83	Peak

Note:
 1. Level = Read Level + Factor
 2. Factor = Antenna Factor + Cable Loss - Preamp Factor
 3. Over Limit = Level - Limit Line
 4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
 5. The other emission levels were very low against the limit.

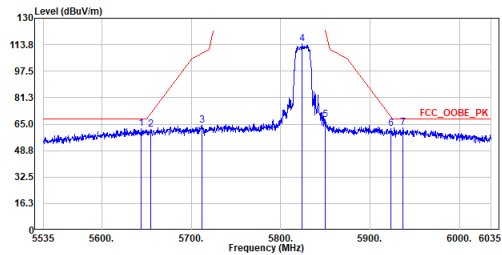
Site :CB2-H
 Condition :3m Horizontal
 Mode :i1a_TX_5825MHz
 Test By :Getaz



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	5639.250	57.76	68.20	-10.44	31.62	26.14	Peak
2	5654.250	58.10	71.35	-13.25	31.88	26.22	Peak
3	5723.750	61.24	119.35	-58.11	34.65	26.59	Peak
4	5823.750	110.56	-----	-----	83.44	27.12	Peak
5	5851.000	60.97	119.92	-58.95	33.71	27.26	Peak
6	5921.250	56.34	70.98	-14.64	28.70	27.64	Peak
7	5966.000	57.32	68.20	-10.88	29.44	27.88	Peak

Note:
 1. Level = Read Level + Factor
 2. Factor = Antenna Factor + Cable Loss - Preamp Factor
 3. Over Limit = Level - Limit Line
 4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
 5. The other emission levels were very low against the limit.

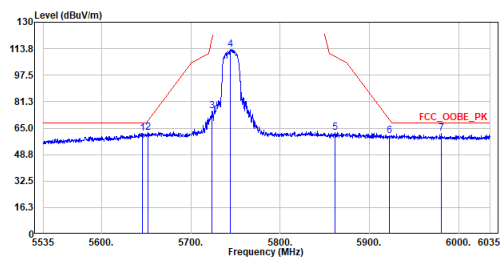
Site :CB2-H
 Condition :3m Vertical
 Mode :i1a_TX_5825MHz
 Test By :Getaz



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	5644.000	62.31	68.20	-5.89	36.14	26.17	Peak
2	5654.750	62.03	71.72	-9.69	35.81	26.22	Peak
3	5712.500	64.45	108.70	-44.25	37.92	26.53	Peak
4	5823.750	114.28	-----	-----	87.16	27.12	Peak
5	5850.000	67.73	122.20	-54.47	40.47	27.26	Peak
6	5923.250	62.13	69.50	-7.37	34.49	27.64	Peak
7	5936.750	62.91	68.20	-5.29	35.19	27.72	Peak

Note:
 1. Level = Read Level + Factor
 2. Factor = Antenna Factor + Cable Loss - Preamp Factor
 3. Over Limit = Level - Limit Line
 4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
 5. The other emission levels were very low against the limit.

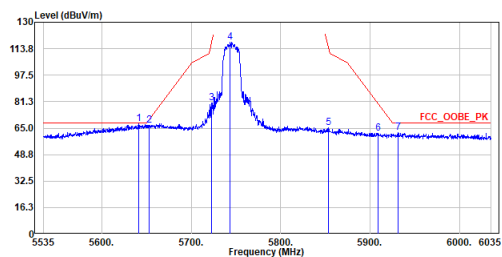
Site :CB2-H
 Condition :3m Horizontal
 Mode :i1ac20_TX_5745MHz
 Test By :Cyril



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	5646.250	61.70	68.20	-6.50	35.52	26.18	Peak
2	5651.750	62.12	69.50	-7.38	35.91	26.21	Peak
3	5723.500	75.57	118.78	-43.21	48.99	26.58	Peak
4	5744.500	113.40	-----	-----	86.70	26.70	Peak
5	5861.750	62.48	108.91	-46.43	35.15	27.33	Peak
6	5922.500	60.32	70.06	-9.74	32.68	27.64	Peak
7	5980.500	61.76	68.20	-6.44	33.80	27.96	Peak

Note:
 1. Level = Read Level + Factor
 2. Factor = Antenna Factor + Cable Loss - Preamp Factor
 3. Over Limit = Level - Limit Line
 4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
 5. The other emission levels were very low against the limit.

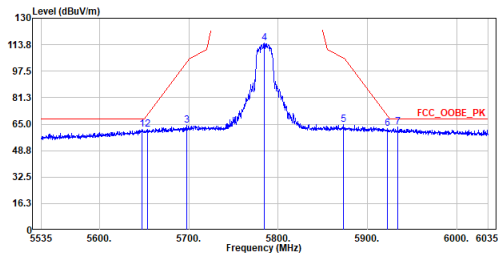
Site :CB2-H
 Condition :3m Vertical
 Mode :i1ac20_TX_5745MHz
 Test By :Cyril



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	5641.750	67.82	68.20	-0.38	41.66	26.16	Peak
2	5653.000	66.78	70.43	-3.65	40.57	26.21	Peak
3	5723.000	80.53	117.64	-37.11	53.95	26.58	Peak
4	5743.500	117.62	-----	-----	90.92	26.70	Peak
5	5853.250	65.45	114.79	-49.34	38.17	27.28	Peak
6	5908.750	61.96	80.23	-18.27	34.38	27.58	Peak
7	5931.750	62.42	68.20	-5.78	34.73	27.69	Peak

Note:
 1. Level = Read Level + Factor
 2. Factor = Antenna Factor + Cable Loss - Preamp Factor
 3. Over Limit = Level - Limit Line
 4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
 5. The other emission levels were very low against the limit.

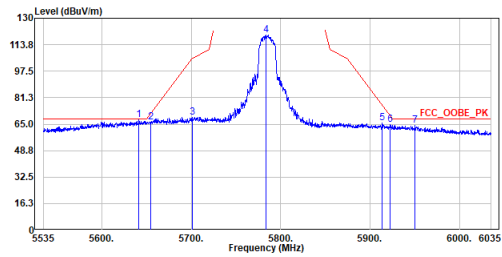
Site :CB2-H
 Condition :3m Horizontal
 Mode :i1ac20_TX_5785MHz
 Test By :Cyril



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	5647.500	61.80	68.20	-6.40	35.61	26.19	Peak
2	5653.500	61.86	70.80	-8.94	35.65	26.21	Peak
3	5698.000	64.13	103.72	-39.59	37.68	26.45	Peak
4	5784.500	114.62	-----	-----	87.71	26.91	Peak
5	5873.250	64.85	105.69	-40.84	37.47	27.38	Peak
6	5922.750	62.43	69.87	-7.44	34.79	27.64	Peak
7	5934.000	63.09	68.20	-5.11	35.38	27.71	Peak

Note:
 1. Level = Read Level + Factor
 2. Factor = Antenna Factor + Cable Loss - Preamp Factor
 3. Over Limit = Level - Limit Line
 4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
 5. The other emission levels were very low against the limit.

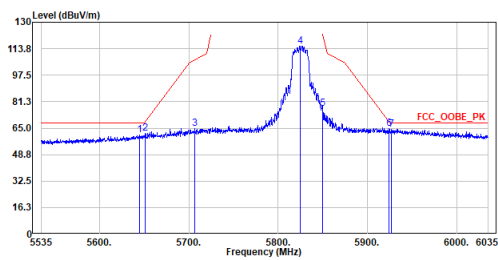
Site :CB2-H
 Condition :3m Vertical
 Mode :i1ac20_TX_5785MHz
 Test By :Cyril



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	5641.750	67.79	68.20	-0.41	41.63	26.16	Peak
2	5655.000	66.36	71.91	-5.55	40.14	26.22	Peak
3	5701.750	69.41	105.69	-36.28	42.93	26.48	Peak
4	5783.500	119.92	-----	-----	93.01	26.91	Peak
5	5913.750	65.87	76.53	-10.66	38.27	27.60	Peak
6	5922.750	64.61	69.87	-5.26	36.97	27.64	Peak
7	5950.250	64.43	68.20	-3.77	36.64	27.79	Peak

Note:
 1. Level = Read Level + Factor
 2. Factor = Antenna Factor + Cable Loss - Preamp Factor
 3. Over Limit = Level - Limit Line
 4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
 5. The other emission levels were very low against the limit.

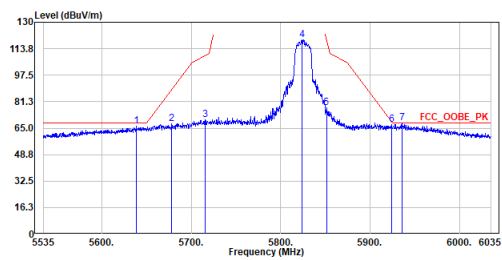
Site :CB2-H
 Condition :3m Horizontal
 Mode :i1ac20_TX_5825MHz
 Test By :Cyril



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	5645.250	60.62	68.20	-7.58	34.45	26.17	Peak
2	5651.500	61.76	69.32	-7.56	35.55	26.21	Peak
3	5706.750	64.75	107.09	-42.34	38.26	26.49	Peak
4	5824.500	115.46	-----	-----	88.34	27.12	Peak
5	5850.000	77.18	122.20	-45.02	49.92	27.26	Peak
6	5924.000	64.86	68.95	-4.09	37.21	27.65	Peak
7	5927.250	64.19	68.20	-4.01	36.51	27.68	Peak

Note:
 1. Level = Read Level + Factor
 2. Factor = Antenna Factor + Cable Loss - Preamp Factor
 3. Over Limit = Level - Limit Line
 4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
 5. The other emission levels were very low against the limit.

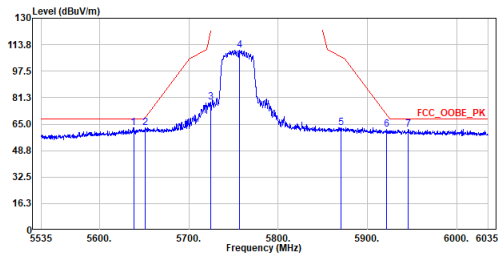
Site :CB2-H
 Condition :3m Vertical
 Mode :i1ac20_TX_5825MHz
 Test By :Cyril



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	5638.500	66.46	68.20	-1.74	40.32	26.14	Peak
2	5678.250	67.67	89.11	-21.44	41.32	26.35	Peak
3	5716.000	70.39	109.68	-39.29	43.84	26.55	Peak
4	5823.750	119.20	-----	-----	92.08	27.12	Peak
5	5851.250	77.56	119.35	-41.79	50.30	27.26	Peak
6	5924.000	67.22	68.95	-1.73	39.57	27.65	Peak
7	5935.500	68.12	68.20	-0.08	40.40	27.72	Peak

Note:
 1. Level = Read Level + Factor
 2. Factor = Antenna Factor + Cable Loss - Preamp Factor
 3. Over Limit = Level - Limit Line
 4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
 5. The other emission levels were very low against the limit.

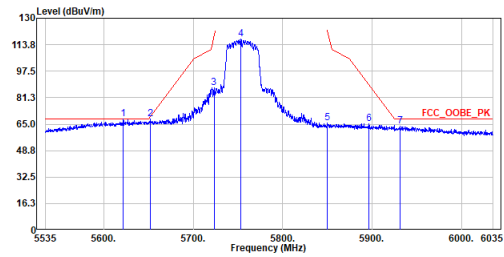
Site :CB2-H
 Condition :3m Horizontal
 Mode :i1ac40_TX_5755MHz
 Test By :Cyril



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	5638.250	62.81	68.20	-5.39	36.68	26.13	Peak
2	5651.000	62.96	68.95	-5.99	36.76	26.20	Peak
3	5724.250	78.55	120.49	-41.94	51.96	26.59	Peak
4	5756.750	110.49	-----	-----	83.73	26.76	Peak
5	5870.500	62.80	106.46	-43.66	35.44	27.36	Peak
6	5921.500	61.97	70.80	-8.83	34.33	27.64	Peak
7	5946.000	61.83	68.20	-6.37	34.05	27.78	Peak

Note:
 1. Level = Read Level + Factor
 2. Factor = Antenna Factor + Cable Loss - Preamp Factor
 3. Over Limit = Level - Limit Line
 4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
 5. The other emission levels were very low against the limit.

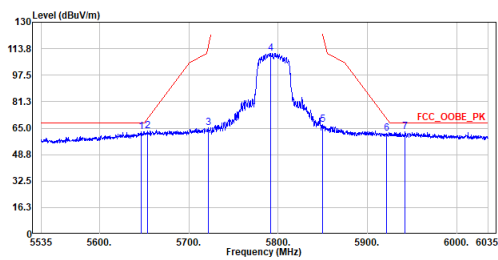
Site :CB2-H
 Condition :3m Vertical
 Mode :i1ac40_TX_5755MHz
 Test By :Cyril



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	5622.000	68.19	68.20	-0.01	42.14	26.05	Peak
2	5652.250	68.01	69.87	-1.86	41.80	26.21	Peak
3	5723.250	87.48	118.21	-30.73	60.90	26.58	Peak
4	5753.250	117.04	-----	-----	90.30	26.74	Peak
5	5850.250	65.77	121.63	-55.86	38.51	27.26	Peak
6	5896.750	65.33	89.11	-23.78	37.82	27.51	Peak
7	5931.250	63.88	68.20	-4.32	36.19	27.69	Peak

Note:
 1. Level = Read Level + Factor
 2. Factor = Antenna Factor + Cable Loss - Preamp Factor
 3. Over Limit = Level - Limit Line
 4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
 5. The other emission levels were very low against the limit.

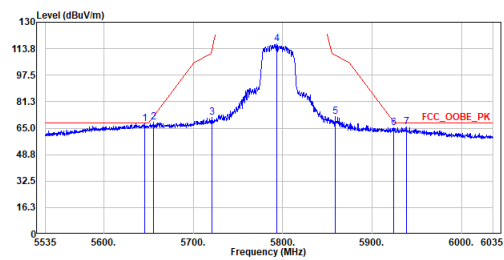
Site :CB2-H
 Condition :3m Horizontal
 Mode :i1ac40_TX_5795MHz
 Test By :Cyril



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	5646.500	62.60	68.20	-5.60	36.42	26.18	Peak
2	5653.500	63.20	70.80	-7.60	36.99	26.21	Peak
3	5721.750	65.19	114.79	-49.60	38.61	26.58	Peak
4	5791.500	111.06	-----	-----	84.11	26.95	Peak
5	5850.250	67.10	121.63	-54.53	39.84	27.26	Peak
6	5921.500	61.57	70.80	-9.23	33.93	27.64	Peak
7	5942.250	62.68	68.20	-5.52	34.92	27.76	Peak

Note:
 1. Level = Read Level + Factor
 2. Factor = Antenna Factor + Cable Loss - Preamp Factor
 3. Over Limit = Level - Limit Line
 4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
 5. The other emission levels were very low against the limit.

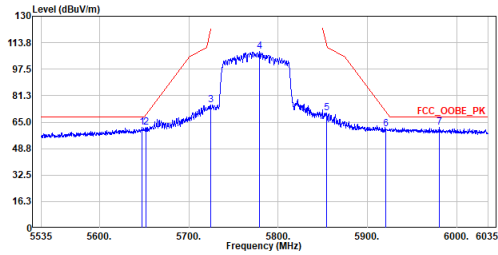
Site :CB2-H
 Condition :3m Vertical
 Mode :i1ac40_TX_5795MHz
 Test By :Cyril



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	5645.750	67.79	68.20	-0.41	41.62	26.17	Peak
2	5655.500	68.63	72.28	-3.65	42.41	26.22	Peak
3	5720.750	71.43	112.51	-41.08	44.86	26.57	Peak
4	5793.500	116.66	-----	-----	89.69	26.97	Peak
5	5850.750	72.08	109.75	-37.67	44.77	27.31	Peak
6	5924.000	65.11	68.95	-3.84	37.46	27.65	Peak
7	5938.250	65.66	68.20	-2.54	37.93	27.73	Peak

Note:
 1. Level = Read Level + Factor
 2. Factor = Antenna Factor + Cable Loss - Preamp Factor
 3. Over Limit = Level - Limit Line
 4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
 5. The other emission levels were very low against the limit.

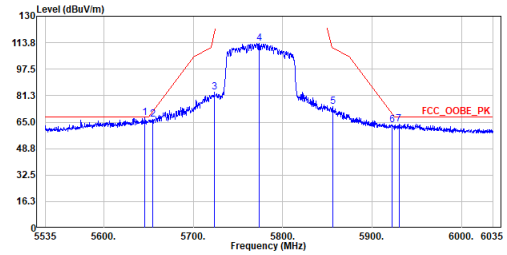
Site :CB2-H
 Condition :3m Horizontal
 Mode :11ac80_TX_5775MHz
 Test By :Cyril



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	Mhz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	5647.750	61.99	68.20	-6.21	35.80	26.19	Peak
2	5652.000	61.79	69.69	-7.90	35.58	26.21	Peak
3	5724.250	75.35	120.49	-45.14	48.76	26.59	Peak
4	5779.500	108.52	-----	-----	81.63	26.89	Peak
5	5854.000	70.52	113.08	-42.56	43.24	27.28	Peak
6	5921.000	60.67	71.17	-10.50	33.03	27.64	Peak
7	5981.000	61.86	68.20	-6.34	33.90	27.96	Peak

Note:
 1. Level = Read Level + Factor
 2. Factor = Antenna Factor + Cable Loss - Preamp Factor
 3. Over Limit = Level - Limit Line
 4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
 5. The other emission levels were very low against the limit.

Site :CB2-H
 Condition :3m Vertical
 Mode :11ac80_TX_5775MHz
 Test By :Cyril

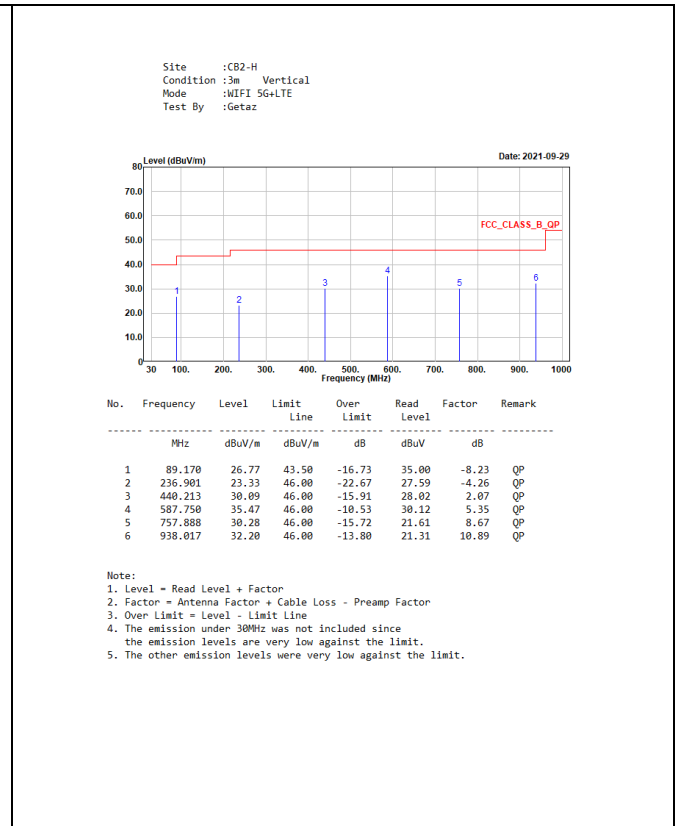
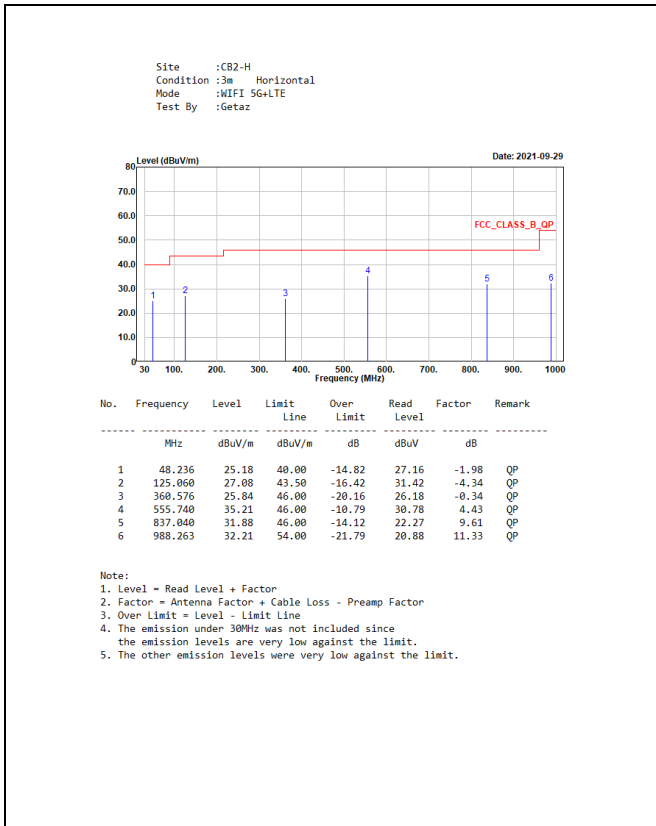


No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	Mhz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	5646.250	67.73	68.20	-0.47	41.55	26.18	Peak
2	5654.750	66.69	71.72	-5.03	40.47	26.22	Peak
3	5723.500	83.34	118.78	-35.44	56.76	26.58	Peak
4	5773.500	113.27	-----	-----	86.42	26.85	Peak
5	5856.000	74.35	110.52	-36.17	47.06	27.29	Peak
6	5922.000	63.25	70.43	-7.18	35.61	27.64	Peak
7	5930.000	63.88	68.20	-4.32	36.19	27.69	Peak

Note:
 1. Level = Read Level + Factor
 2. Factor = Antenna Factor + Cable Loss - Preamp Factor
 3. Over Limit = Level - Limit Line
 4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
 5. The other emission levels were very low against the limit.

Appendix A

➤ Test Result of Radiated Emissions Co-location WLAN 5 GHz function + WWAN LTE function 30 MHz ~ 1 GHz:



Above 1 GHz:

