

FCC Test Report

Product Name : Tablet
Brand Name : MiTAC
Model No. : Cappuccino-Tablet
FCC ID : 2ADL6-CAPPUCCINO

Applicant : MITAC COMPUTING TECHNOLOGY
CORPORATION

Address : No. 200, Wen Hwa 2nd Rd., Kuei Shan Dist.,
TAOYUAN, 33383 Taiwan

Date of Receipt : Jan. 26, 2022
Issued Date : Mar. 16, 2022
Report No. : 2210786R-RFUSWL5V01-A
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 : Tablet
Applicant : MITAC COMPUTING TECHNOLOGY CORPORATION
Address : No. 200, Wen Hwa 2nd Rd., Kuei Shan Dist., TAOYUAN,
33383 Taiwan
Manufacturer : MITAC COMPUTING TECHNOLOGY CORPORATION
Address : No. 200, Wen Hwa 2nd Rd., Kuei Shan Dist., TAOYUAN,
33383 Taiwan
Brand Name : MiTAC
Model No. : Cappuccino-Tablet
FCC ID : 2ADL6-CAPPUCCINO
EUT Voltage : AC 120 ~ 240V, 50-60Hz (Adapter)
DC 7.6V (Battery)
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 :



(Hailey Peng / Senior Engineer)

Approved By :



(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	Mar. 16, 2022

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1. General Information

1.1. EUT Description

Product Name	Tablet	
Brand Name	MiTAC	
Model No.	Cappuccino-Tablet	
Frequency Range / Channel Number	IEEE 802.11a / IEEE 802.11n (20 MHz) / IEEE 802.11ac (20 MHz)	5260 ~ 5320 MHz / 4 Channels 5500 ~ 5700 MHz / 11 Channels
	IEEE 802.11n (40 MHz) / IEEE 802.11ac (40 MHz)	5270 ~ 5310 MHz / 2 Channels 5510 ~ 5670 MHz / 5 Channels
	IEEE 802.11ac (80 MHz)	5290 MHz / 1 Channel 5530 ~ 5610 MHz / 2 Channels
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
TPC Function	<input type="checkbox"/> With TPC Function	
	<input checked="" type="checkbox"/> Without TPC Function	
Weather Band (5600 ~ 5650 MHz)	<input checked="" type="checkbox"/> With 5600 ~ 5650 MHz	
	<input type="checkbox"/> Without 5600 ~ 5650 MHz	

Accessories Information				
No.	Equipment Name	Brand Name	Model No.	Rating
1	Power Adapter with power cord (for EUT)	APD	NB65B19	INPUT: 100 ~ 240V,50/60Hz, 1.6A OUTPUT: 19V, 3.42A Cable In: Non-Shielded, 0.9 m Cable Out: Non-Shielded, 1.7m
2	Power Adapter (for Docking Station or Extension Cover)	DELTA	DPS-180AB-21	INPUT: 100 ~ 240V,50/60Hz, 3-1.5A OUTPUT: 24V, 7.5A Cable Out: Non-Shielded, 1.2m with 2 ferrite cores
3	Power cord (for Docking Station or Extension Cover)	DELTA	CCBL-0317	Cable In: Non-Shielded, 1.7 m
4	Battery	Getac	BP-CAP-21/2570 VKB	7.6V, 2570mAh, 19.532Wh
No.	Equipment Name	Brand Name		Model No.
5	Docking Station	Cappuccino		Cappuccino-Docking Station
6	Extension Cover	Cappuccino		Cappuccino-Extension Cover
7	Charging Cradle	Cappuccino		Cappuccino-Charging Cradle
No.	Equipment Name	Remark		
8	Strap	1Pcs		

Antenna Information						
Ant.	Brand Name	Model No.	Type	Antenna Gain (dBi)	Maximum Antenna Gain (dBi)	Directional Gain (dBi)
0	ARISTOTLE	RFA-25-AP957-MAIN	PIFA Antenna	4.06	4.06	7.01
1	ARISTOTLE	RFA-25-AP957-AUX	PIFA Antenna	3.94		

For IEEE 802.11a/n/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/ac (20 MHz)

Working Frequency of Each Channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
52	5260 MHz	56	5280 MHz	60	5300 MHz	64	5320 MHz
100	5500 MHz	104	5520 MHz	108	5540 MHz	112	5560 MHz
116	5580 MHz	120	5600 MHz	124	5620 MHz	128	5640 MHz
132	5660 MHz	136	5680 MHz	140	5700 MHz	-	-

IEEE 802.11n/ac (40 MHz)

Working Frequency of Each Channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
54	5270 MHz	62	5310 MHz	102	5510 MHz	110	5550 MHz
118	5590 MHz	126	5630 MHz	134	5670 MHz	-	-

IEEE 802.11ac (80 MHz)

Working Frequency of Each Channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
58	5290 MHz	106	5530 MHz	122	5610 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.
3. This product is an extension of original one reported under DEKRA project number: 2040094R.
Adding 5GHz band 2~band 3 for the changed of the product with respect to the original one, and it was performance checked for all test items.

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_Adapter Mode 2: Transmit_Docking Station Mode 3 : Transmit_Extension Cover
-----------	---

Test Items	Test Mode	Modulation	Channel	Antenna	Result
AC Power Line Conducted Emission	Mode 1, Mode 2, Mode 3	11ac (20 MHz)	100	0+1	Pass
Emission Bandwidth	Mode 1	11a	52/60/64/100/116/140	0/1	Pass
		11ac (20 MHz)	52/60/64/100/116/140	0/1	Pass
		11ac (40 MHz)	54/62/102/134	0/1	Pass
		11ac (80 MHz)	58/106/122	0/1	Pass
Maximum Conducted Output Power	Mode 1	11a	52/60/64/100/116/140	0+1	Pass
		11ac (20 MHz)	52/60/64/100/116/140	0+1	Pass
		11ac (40 MHz)	54/62/102/134	0+1	Pass
		11ac (80 MHz)	58/106/122	0+1	Pass
Maximum Power Spectral Density	Mode 1	11a	52/60/64/100/116/140	0+1	Pass
		11ac (20 MHz)	52/60/64/100/116/140	0+1	Pass
		11ac (40 MHz)	54/62/102/134	0+1	Pass
		11ac (80 MHz)	58/106/122	0+1	Pass
Radiated Emission Below 1 GHz	Mode 1, Mode 2, Mode 3	11ac (20 MHz)	100	0+1	Pass
Radiated Emission Above 1 GHz	Mode 3	11a	52/60/64/100/116/140	0+1	Pass
		11ac (20 MHz)	52/60/64/100/116/140	0+1	Pass
		11ac (40 MHz)	54/62/102/134	0+1	Pass
		11ac (80 MHz)	58/106/122	0+1	Pass
Radiated Emission Band Edge	Mode 3	11a	52/60/64/100/116/140	0+1	Pass
		11ac (20 MHz)	52/60/64/100/116/140	0+1	Pass
		11ac (40 MHz)	54/62/102/134	0+1	Pass
		11ac (80 MHz)	58/106/122	0+1	Pass

Note:

1. Determining compliance shall be based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.
2. 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.
3. For radiated emission below 1 GHz and AC power line conducted emission have performed all modes of operation were investigated and the worst-case emissions are reported.
4. The modulation and bandwidth are similar for 802.11n mode for HT20/HT40 and 802.11ac mode for VHT20/VHT40, therefore investigated worst case to representative mode in test report.
5. The EUT was investigated in five modes X axis, Y axis, Z axis, docking station, and extension cover. Pre-scan radiated emission and radiated emission band edge has been determined by the extension cover mode (the worst-case).

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.

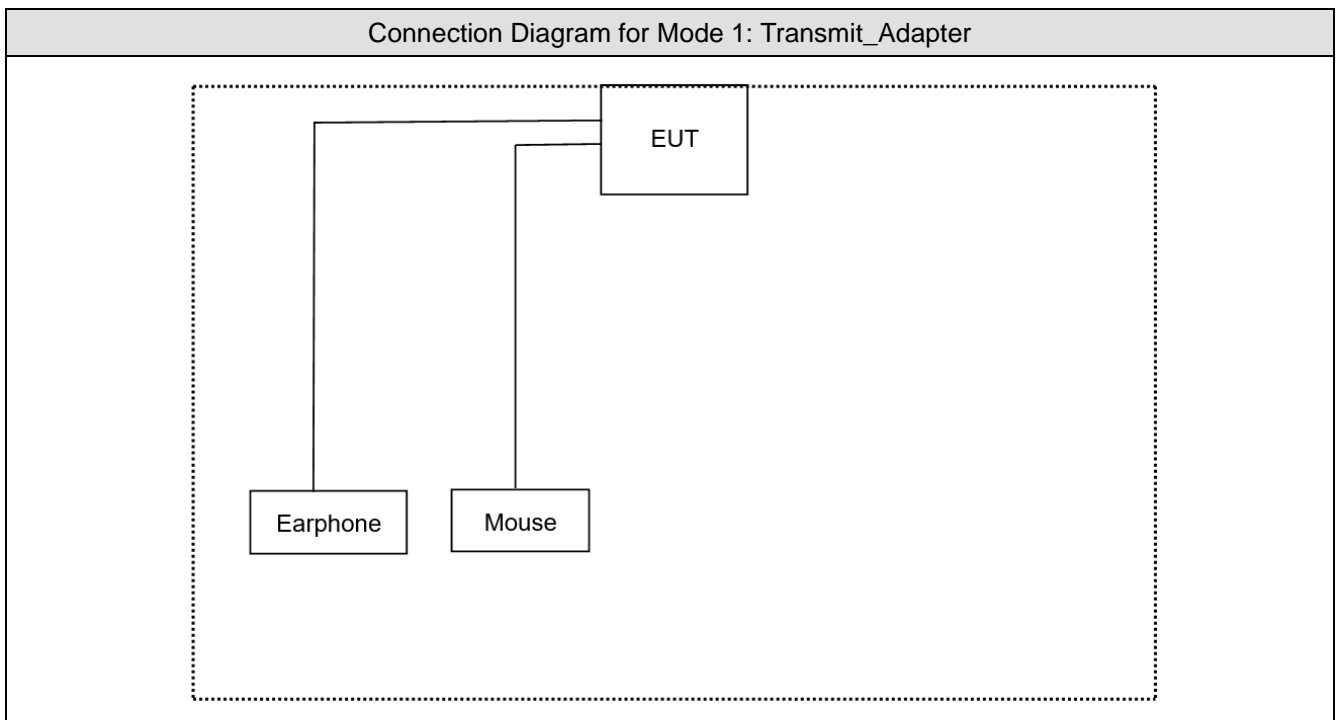
Mode 1: Transmit_Adapter

	Product	Manufacturer	Model No.	Serial No.
1	Mouse	HP	M150	B1M150210802968
2	Earphone	ASUS	3.5mm	N/A

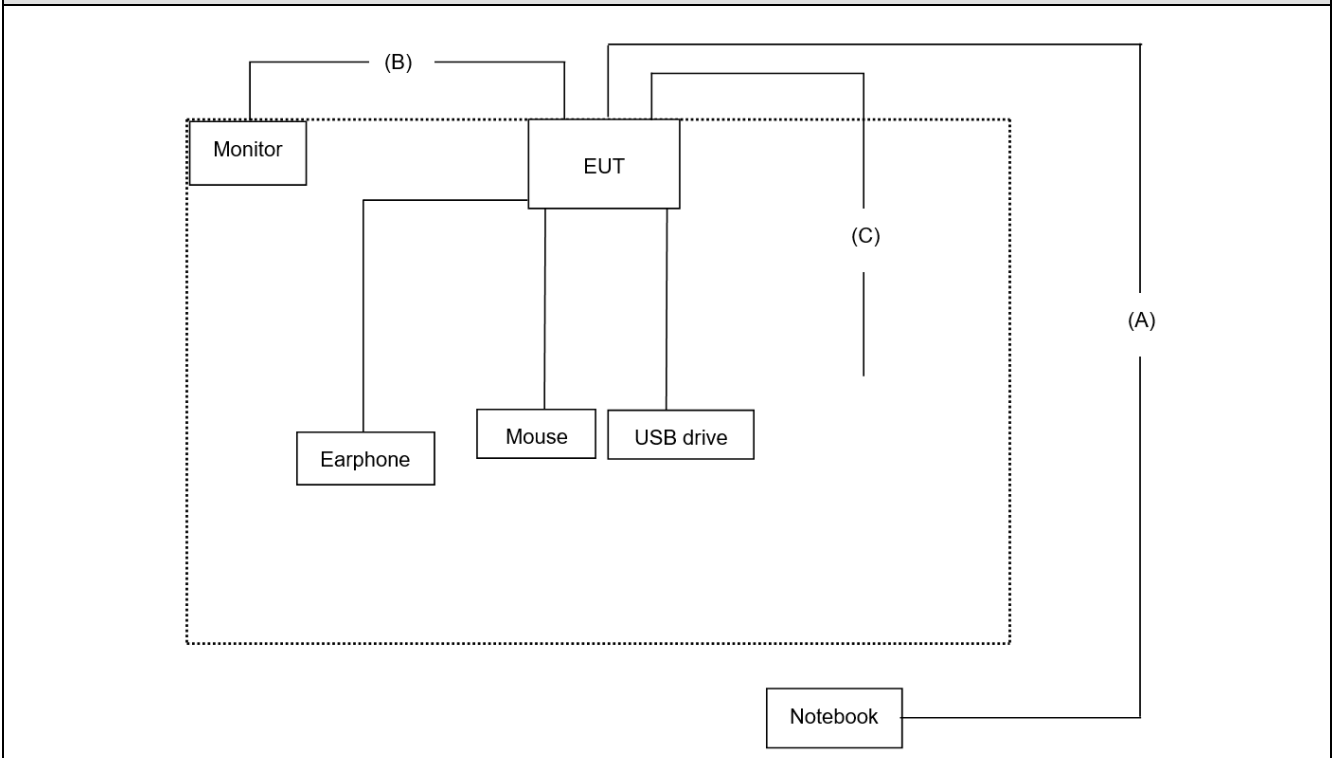
Mode 2: Transmit_Docking Station / Mode 3 : Transmit_Extension Cover

	Product	Manufacturer	Model No.	Serial No.
1	Mouse	HP	M150	B1M150210802968
2	Monitor	Philps	223V5LHSB2	QMZ081201587
3	USB drive	Verbatim	OTG Tiny	N/A
4	Earphone	ASUS	3.5mm	N/A
5	Notebook	DELL	Latitude E6320	8208580717

1.5. Configuration of tested System



Connection Diagram for Mode 2: Transmit_Docking Station / Mode 3 : Transmit_Extension Cover



Signal Cable Type		Signal cable Description
A	Ethernet cable	Non-Shielded, 2m
B	HDMI cable	Shielded, 2m
C	RS232 cable	Shielded, 2m

1.6. EUT Operation of during Test

1	Set the EUT as shown.
2	Execute control command by software "QRCT v3.0.169.0".
3	Configure test mode, test channel and data rate.
4	Let the EUT start transmitting signal 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	19.4	Ling Chen	2022/02/21	SR2-H
Humidity (%RH)		59			
Temperature (°C)	99% & 26dB Bandwidth	22	Clemons Fang	2022/02/11	SR12-H
Humidity (%RH)		68			
Temperature (°C)	Maximum Conducted Output Power	22	Clemons Fang	2022/02/11	SR12-H
Humidity (%RH)		68			
Temperature (°C)	Peak Power Spectral Density	22	Clemons Fang	2022/02/11	SR12-H
Humidity (%RH)		68			
Temperature (°C)	Radiated Emission	22.1 ~ 22.2	Scott Chang, Ling Chen	2022/02/10 ~ 2022/02/18	CB4-H
Humidity (%RH)		54 ~ 55			
Temperature (°C)	Radiated Emission Band Edge	22.1 ~ 23	Gary Liao Scott Chang	2022/02/09 ~ 2022/02/10	CB4-H
Humidity (%RH)		55 ~ 61			

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	2021/12/27	2022/12/26
EMI Test Receiver	R&S	ESR3	102608	2021/06/03	2022/06/02
LISN	R&S	ENV216	100092	2021/06/08	2022/06/07
Coaxial Cable(9 m)	Harbour	RG-400	SR2-H	2021/08/15	2022/08/14
DEKRA Testing System	DEKRA	Version 2.0	SR2-H	N/A	N/A

SR12-H

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
High Speed Peak Power Meter Dual Input	Anritsu	ML2496A	1602004	2021/11/12	2022/11/11
Pulse Power Sensor	Anritsu	MA2411B	1531043	2021/11/12	2022/11/11
EXA Signal Analyzer	Keysight	N9010A	MY51440132	2022/01/07	2023/01/06
Pulse Power Sensor	Anritsu	MA2411B	1531044	2021/11/12	2022/11/11
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

CB4-H

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
Signal Analyzer	R&S	FSVA40	101455	2021/10/22	2022/10/21
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	2022/01/07	2023/01/06
Trilog Broadband Antenna	Schwarzbeck	VULB 9168	1209	2021/05/28	2022/05/27
Horn Antenna	Schwarzbeck	BBHA 9120D	01640	2021/09/03	2022/09/02
Horn Antenna	Schwarzbeck	BBHA 9170	203	2021/03/11	2022/03/10
Pre-Amplifier	EMCI	EMC01820I	980364	2021/08/27	2022/08/26
Pre-Amplifier	EMCI	EMC0031835	980233	2021/11/26	2022/11/25
Pre-Amplifier	EMEC	EM01G18GA	060835	2021/07/12	2022/07/11
Pre-Amplifier	DEKRA	AP-400C	201801231	2021/12/24	2022/12/23
EMI Test Receiver	R&S	ESR7	102260	2021/12/22	2022/12/21
Magnetic Loop Antenna	Teseq	HLA 6121	44287	2021/09/06	2022/09/05
Coaxial Cable(10m)	Suhner	SF102_SF104	CB4-H	2021/08/09	2022/08/08
Coaxial Cable(3m)	Suhnerr,Rosnol	SF102_Rosnol	CB4-H	2021/08/17	2022/08/18
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	± 2.10 dB
99% & 26dB Bandwidth	± 636.54 Hz
Maximum Conducted Output Power	± 1.16 dB
Maximum Power Spectral Density	± 1.60 dB
Radiated Emission	± 3.25 dB below 1 GHz ± 3.32 dB above 1 GHz
Radiated Emission Band Edge	± 3.32 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	2.050	2.170	94.47	0.247	0.488
802.11ac (20 MHz)	1.930	2.040	94.61	0.241	0.518
802.11ac (40 MHz)	0.940	1.040	90.38	0.439	1.064
802.11ac (80 MHz)	0.455	0.550	82.73	0.824	2.198

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.

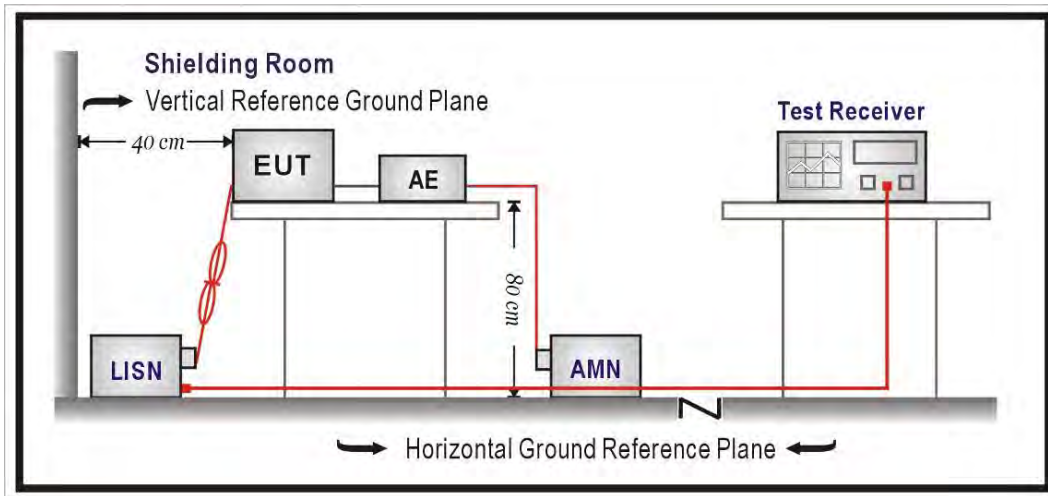


2. Antenna Requirements

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.

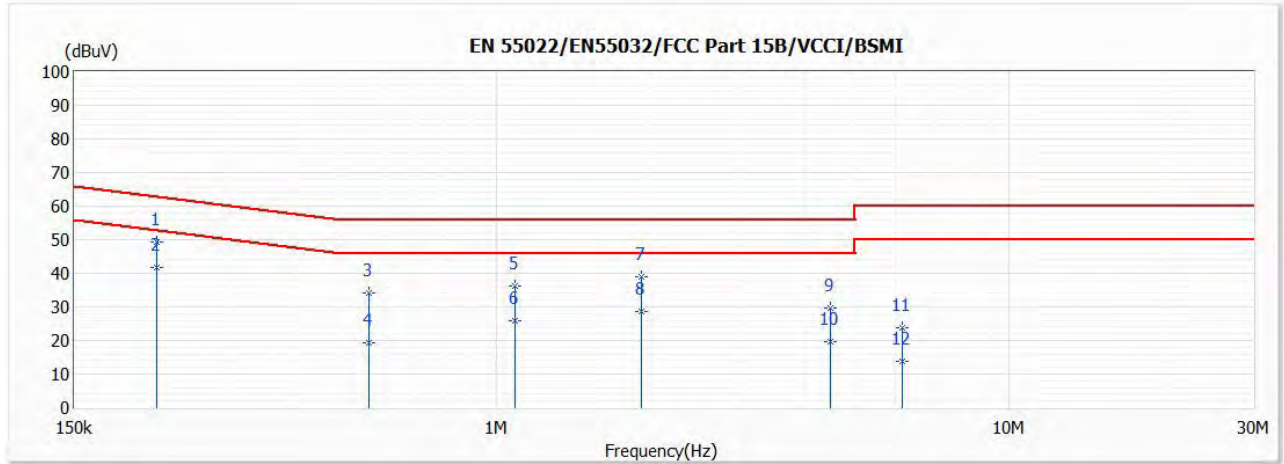
Conducted emissions were investigated over the frequency range from 0.15 MHz to 30 MHz using a receiver bandwidth of 9 kHz.

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_Adapter	Phase	Line
Test Condition	11ac (20 MHz) / Ant. 0 + Ant. 1 / 5500 MHz		

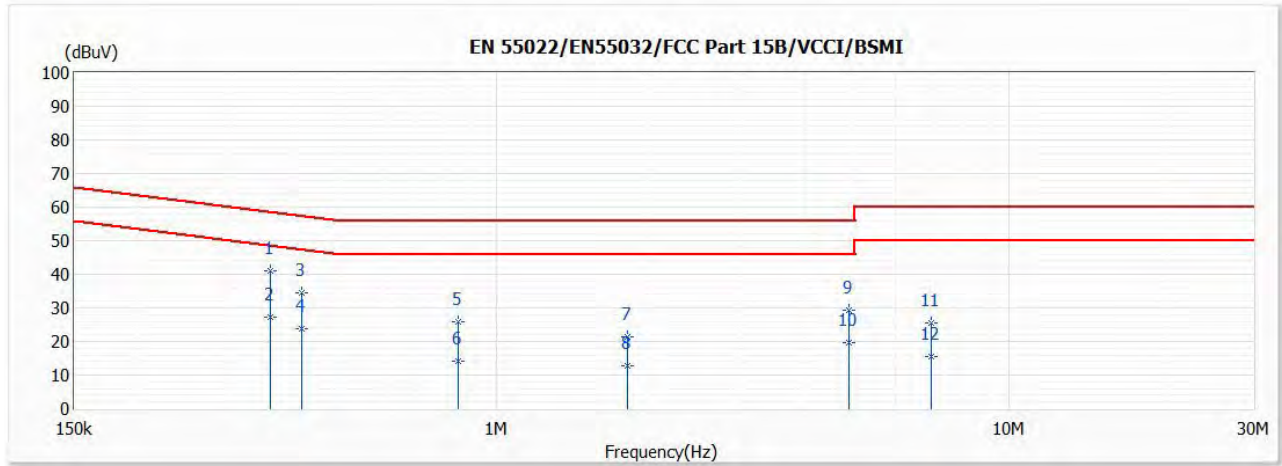


No	Frequency (MHz)	Emission Level (dBuV)	Limit (dBuV)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	0.217	49.44	62.92	-13.48	39.80	9.64	QP
*2	0.217	41.77	52.92	-11.15	32.13	9.64	AV
3	0.564	34.21	56.00	-21.79	24.53	9.68	QP
4	0.564	19.43	46.00	-26.57	9.75	9.68	AV
5	1.087	36.28	56.00	-19.72	26.56	9.72	QP
6	1.087	25.99	46.00	-20.01	16.27	9.72	AV
7	1.916	38.94	56.00	-17.06	29.16	9.78	QP
8	1.916	28.48	46.00	-17.52	18.70	9.78	AV
9	4.469	29.67	56.00	-26.33	19.77	9.90	QP
10	4.469	19.60	46.00	-26.40	9.70	9.90	AV
11	6.180	23.68	60.00	-36.32	13.71	9.97	QP
12	6.180	13.90	50.00	-36.10	3.93	9.97	AV

Note:

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

Test Mode	Mode 1: Transmit_Adapter	Phase	Neutral
Test Condition	11ac (20 MHz) / Ant. 0 + Ant. 1 / 5500 MHz		

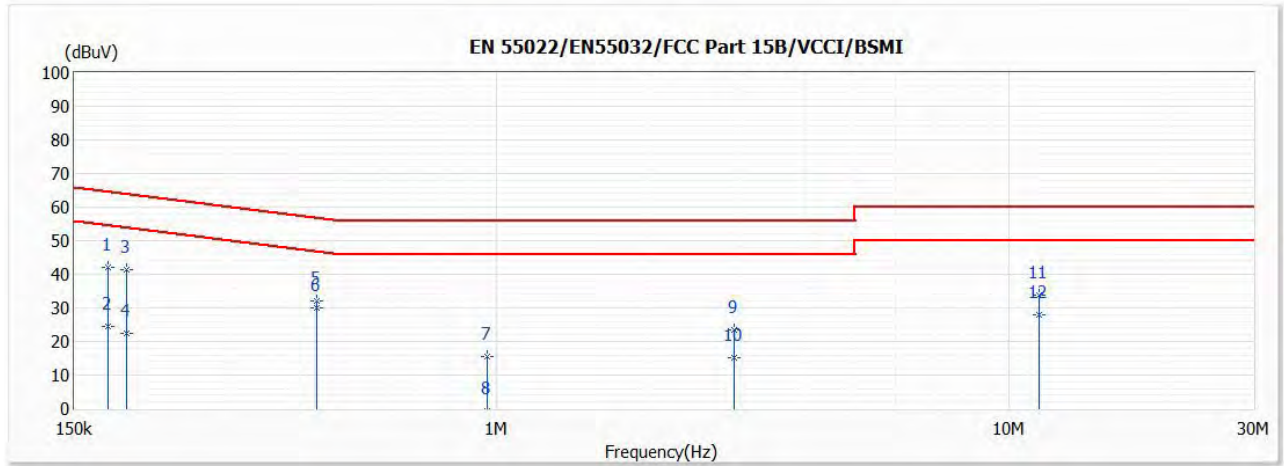


No	Frequency (MHz)	Emission Level (dBuV)	Limit (dBuV)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
*1	0.362	40.95	58.67	-17.72	31.30	9.65	QP
2	0.362	27.33	48.67	-21.34	17.68	9.65	AV
3	0.418	34.37	57.50	-23.13	24.71	9.66	QP
4	0.418	23.70	47.50	-23.80	14.04	9.66	AV
5	0.841	25.84	56.00	-30.16	16.13	9.71	QP
6	0.841	14.09	46.00	-31.91	4.38	9.71	AV
7	1.796	21.33	56.00	-34.67	11.56	9.77	QP
8	1.796	12.72	46.00	-33.28	2.95	9.77	AV
9	4.872	29.18	56.00	-26.82	19.26	9.92	QP
10	4.872	19.60	46.00	-26.40	9.68	9.92	AV
11	7.048	25.51	60.00	-34.49	15.49	10.02	QP
12	7.048	15.58	50.00	-34.42	5.56	10.02	AV

Note:

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

Test Mode	Mode 2: Transmit_Docking Station	Phase	Line
Test Condition	11ac (20 MHz) / Ant. 0 + Ant. 1 / 5500 MHz		

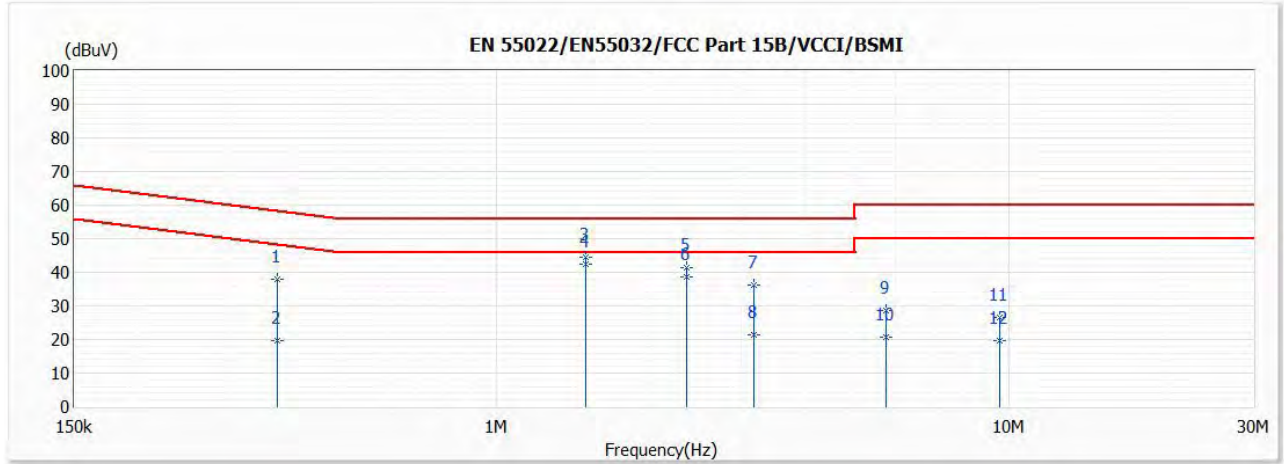


No	Frequency (MHz)	Emission Level (dBuV)	Limit (dBuV)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	0.174	42.21	64.75	-22.54	32.58	9.63	QP
2	0.174	24.37	54.75	-30.38	14.74	9.63	AV
3	0.189	41.50	64.07	-22.57	31.87	9.63	QP
4	0.189	22.54	54.07	-31.53	12.91	9.63	AV
5	0.446	32.05	56.95	-24.90	22.39	9.66	QP
*6	0.446	30.00	46.95	-16.95	20.34	9.66	AV
7	0.960	15.41	56.00	-40.59	5.69	9.72	QP
8	0.960	-0.82	46.00	-46.82	-10.54	9.72	AV
9	2.900	23.54	56.00	-32.46	13.71	9.83	QP
10	2.900	15.18	46.00	-30.82	5.35	9.83	AV
11	11.473	33.65	60.00	-26.35	23.51	10.14	QP
12	11.473	27.82	50.00	-22.18	17.68	10.14	AV

Note:

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

Test Mode	Mode 2: Transmit_Docking Station	Phase	Neutral
Test Condition	11ac (20 MHz) / Ant. 0 + Ant. 1 / 5500 MHz		

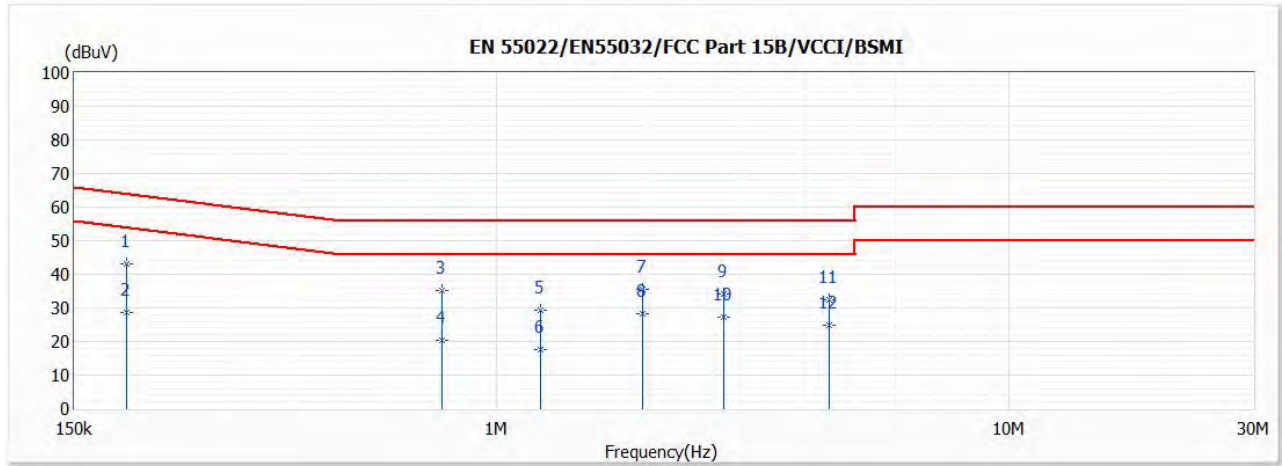


No	Frequency (MHz)	Emission Level (dBuV)	Limit (dBuV)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	0.374	37.83	58.41	-20.58	28.17	9.66	QP
2	0.374	19.51	48.41	-28.90	9.85	9.66	AV
3	1.493	44.43	56.00	-11.57	34.69	9.74	QP
*4	1.493	42.51	46.00	-3.49	32.77	9.74	AV
5	2.345	41.54	56.00	-14.46	31.75	9.79	QP
6	2.345	38.60	46.00	-7.40	28.81	9.79	AV
7	3.184	36.22	56.00	-19.78	26.38	9.84	QP
8	3.184	21.51	46.00	-24.49	11.67	9.84	AV
9	5.757	28.51	60.00	-31.49	18.54	9.97	QP
10	5.757	20.58	50.00	-29.42	10.61	9.97	AV
11	9.604	26.65	60.00	-33.35	16.53	10.12	QP
12	9.604	19.79	50.00	-30.21	9.67	10.12	AV

Note:

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

Test Mode	Mode 3 : Transmit_Extension Cover	Phase	Line
Test Condition	11ac (20 MHz) / Ant. 0 + Ant. 1 / 5500 MHz		

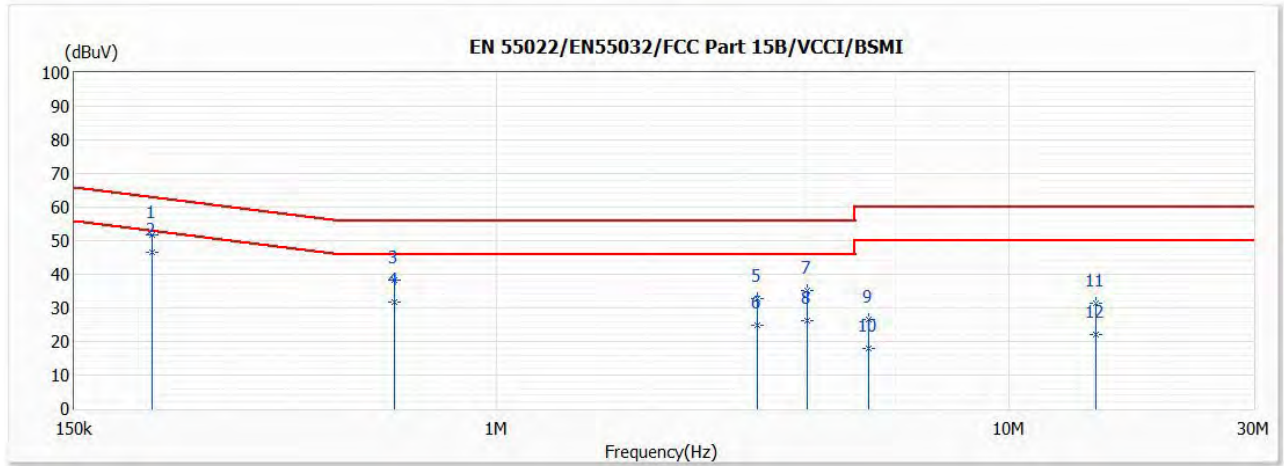


No	Frequency (MHz)	Emission Level (dBuV)	Limit (dBuV)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	0.189	43.02	64.07	-21.05	33.39	9.63	QP
2	0.189	28.47	54.07	-25.60	18.84	9.63	AV
3	0.783	35.08	56.00	-20.92	25.38	9.70	QP
4	0.783	20.48	46.00	-25.52	10.78	9.70	AV
5	1.217	29.37	56.00	-26.63	19.64	9.73	QP
6	1.217	17.70	46.00	-28.30	7.97	9.73	AV
7	1.928	35.57	56.00	-20.43	25.79	9.78	QP
*8	1.928	28.15	46.00	-17.85	18.37	9.78	AV
9	2.780	34.03	56.00	-21.97	24.21	9.82	QP
10	2.780	27.34	46.00	-18.66	17.52	9.82	AV
11	4.460	32.33	56.00	-23.67	22.43	9.90	QP
12	4.460	24.94	46.00	-21.06	15.04	9.90	AV

Note:

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

Test Mode	Mode 3 : Transmit_Extension Cover	Phase	Neutral
Test Condition	11ac (20 MHz) / Ant. 0 + Ant. 1 / 5500 MHz		



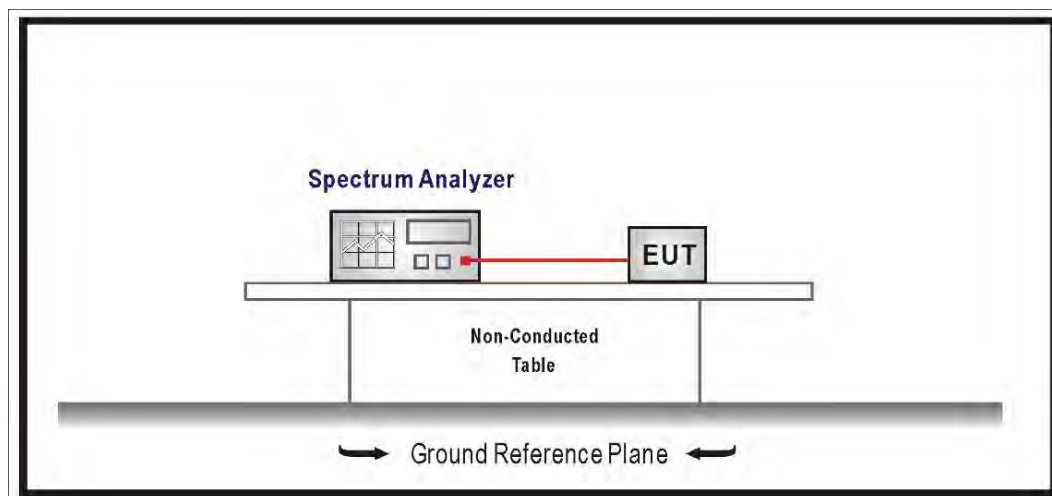
No	Frequency (MHz)	Emission Level (dBuV)	Limit (dBuV)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	0.213	51.65	63.08	-11.43	42.02	9.63	QP
*2	0.213	46.47	53.08	-6.61	36.84	9.63	AV
3	0.633	38.20	56.00	-17.80	28.52	9.68	QP
4	0.633	31.88	46.00	-14.12	22.20	9.68	AV
5	3.220	32.68	56.00	-23.32	22.84	9.84	QP
6	3.220	24.84	46.00	-21.16	15.00	9.84	AV
7	4.039	35.13	56.00	-20.87	25.25	9.88	QP
8	4.039	26.23	46.00	-19.77	16.35	9.88	AV
9	5.316	26.65	60.00	-33.35	16.70	9.95	QP
10	5.316	18.03	50.00	-31.97	8.08	9.95	AV
11	14.753	31.41	60.00	-28.59	21.07	10.34	QP
12	14.753	22.08	50.00	-27.92	11.74	10.34	AV

Note:

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

4. Emission Bandwidth

4.1. Test Setup



4.2. Test Limit

99% & 26dB Bandwidth : No Required

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.

4.4. Test Specification

According to FCC CFR Title 47 Part 15 Subpart E.

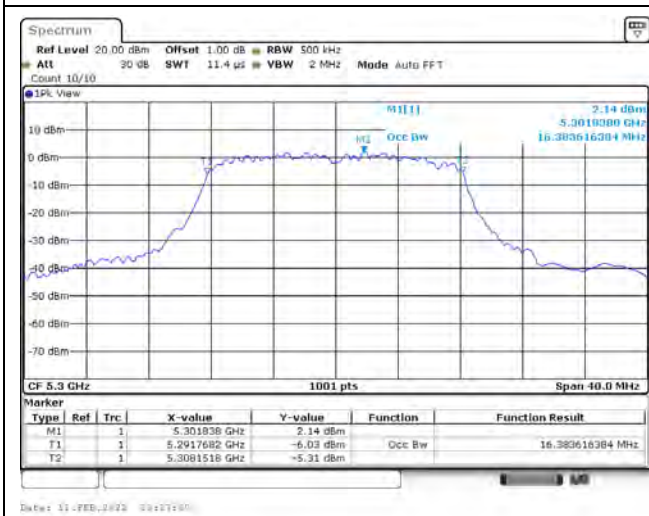
4.5. Test Result of Emission Bandwidth

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	52	5260	16.543	16.383	19.660	19.380	-
	60	5300	16.463	16.383	19.580	19.100	-
	64	5320	16.463	16.463	19.820	19.380	-
	100	5500	16.503	16.383	19.700	19.100	-
	116	5580	16.423	16.383	19.900	19.100	-
	140	5700	16.463	16.383	19.820	19.460	-
802.11ac (20 MHz)	52	5260	17.542	17.502	20.819	20.299	-
	60	5300	17.542	17.542	21.538	20.699	-
	64	5320	17.502	17.502	20.619	20.499	-
	100	5500	17.542	17.542	20.539	20.379	-
	116	5580	17.542	17.502	20.739	21.098	-
	140	5700	17.542	17.542	20.899	20.459	-
802.11ac (40 MHz)	54	5270	35.884	35.804	40.919	42.837	-
	62	5310	35.964	35.884	40.999	41.638	-
	102	5510	35.884	35.884	40.519	40.519	-
	110	5550	35.884	35.884	40.599	40.519	-
	134	5670	35.884	35.884	40.679	40.279	-
802.11ac (80 MHz)	58	5290	74.645	74.805	82.957	81.199	-
	106	5530	74.805	74.805	81.838	81.359	-
	122	5610	74.645	74.645	81.359	81.838	-

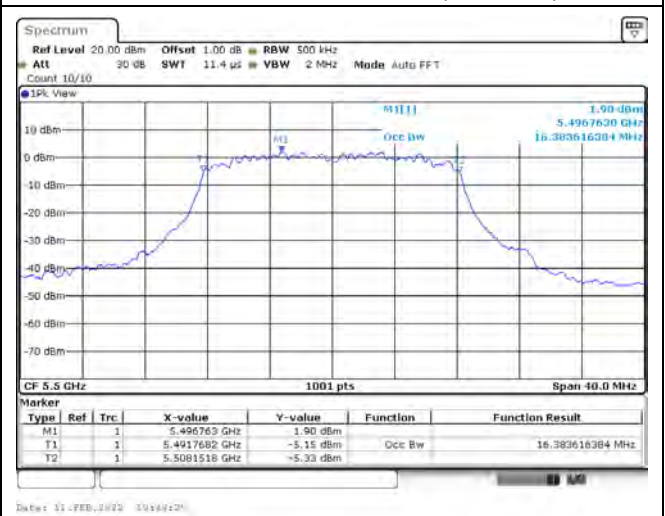
For 99% Bandwidth:

Spectrum plot of worst value

802.11a / Ant. 1 / 5300 MHz (U-NII-2A)



802.11a / Ant. 1 / 5500 MHz (U-NII-2C)



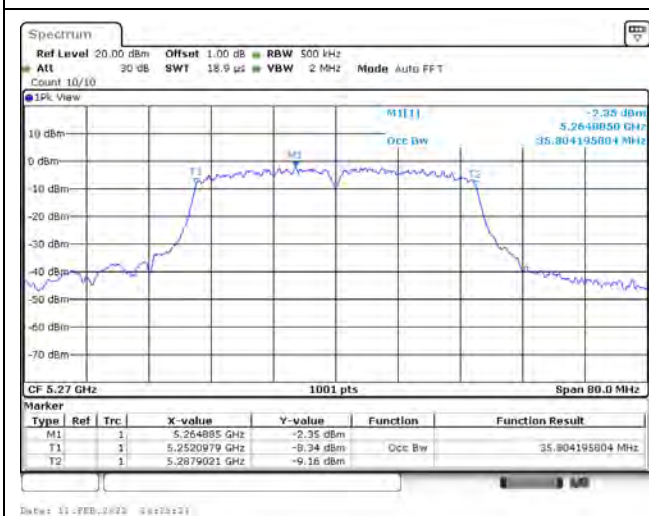
802.11ac (20 MHz) / Ant. 1 / 5260 MHz (U-NII-2A)



802.11ac (20 MHz) / Ant. 1 / 5580 MHz (U-NII-2C)



802.11ac (40 MHz) / Ant. 1 / 5270 MHz (U-NII-2A)



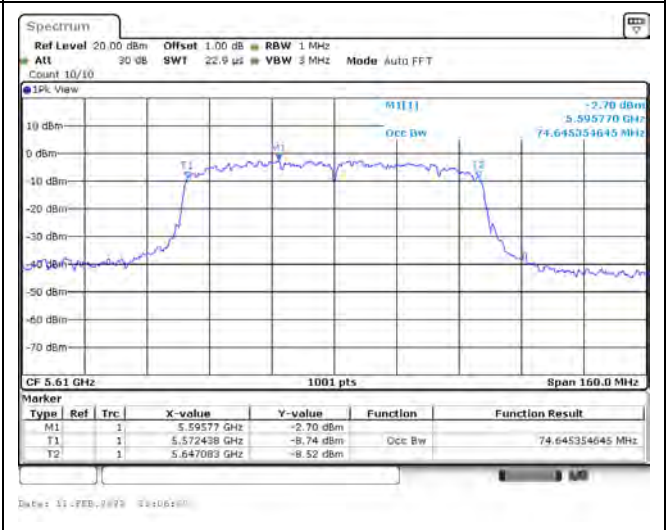
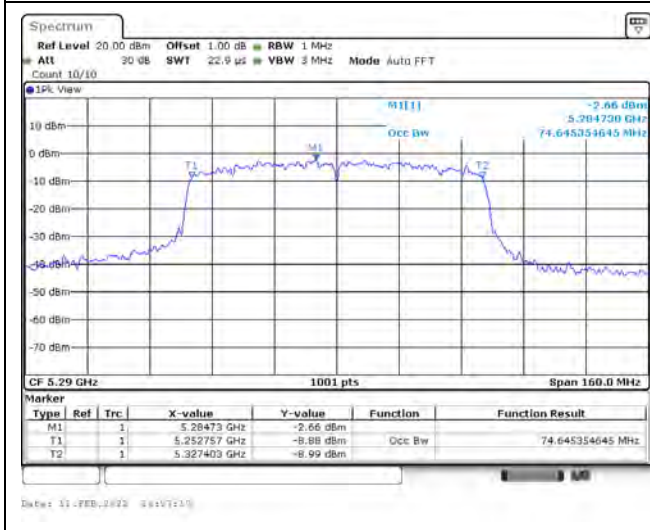
802.11ac (40 MHz) / Ant. 0 / 5510 MHz (U-NII-2C)



Spectrum plot of worst value

802.11ac (80 MHz) / Ant. 0 / 5290 MHz (U-NII-2A)

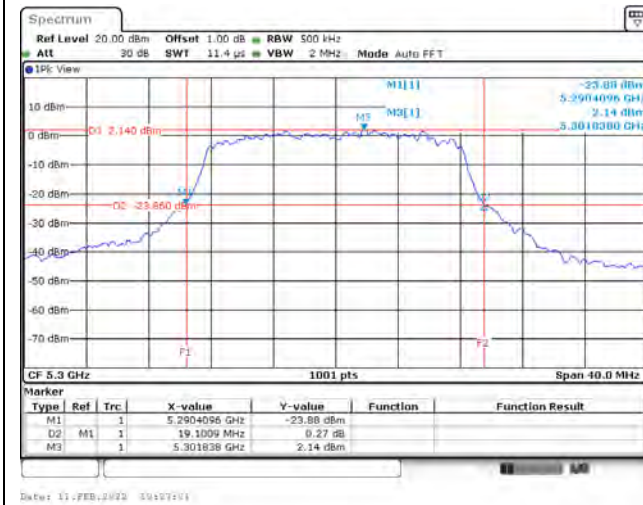
802.11ac (80 MHz) / Ant. 0 / 5610 MHz (U-NII-2C)



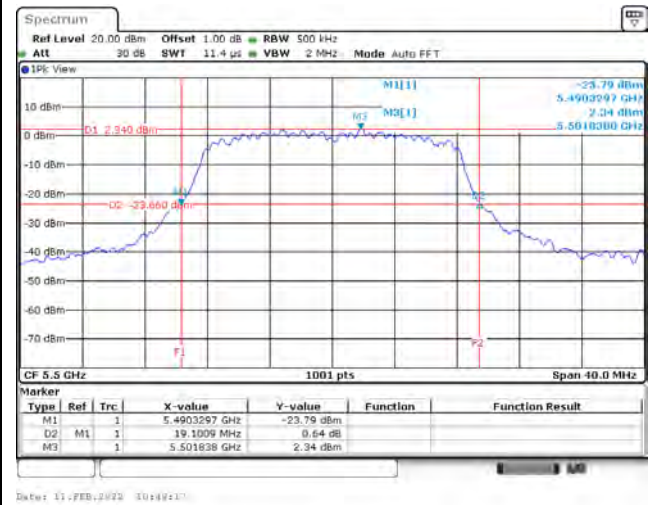
For 26dB Bandwidth:

Spectrum plot of worst value

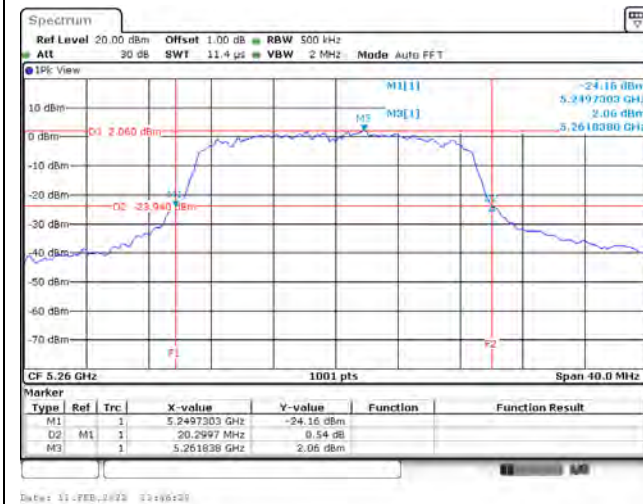
802.11a / Ant. 1 / 5300 MHz (U-NII-2A)



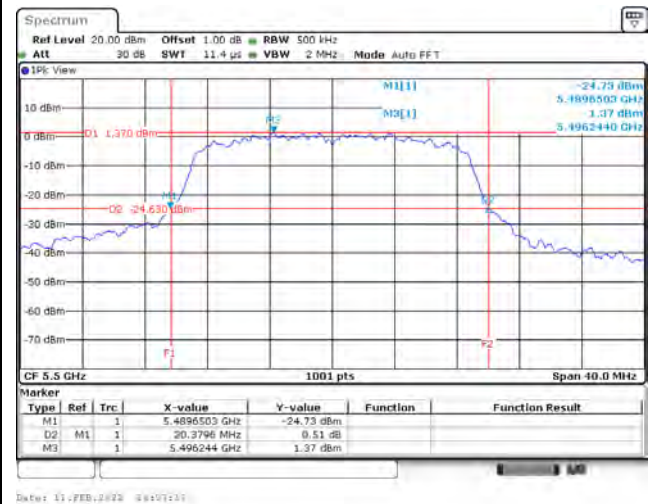
802.11a / Ant. 1 / 5500 MHz (U-NII-2C)



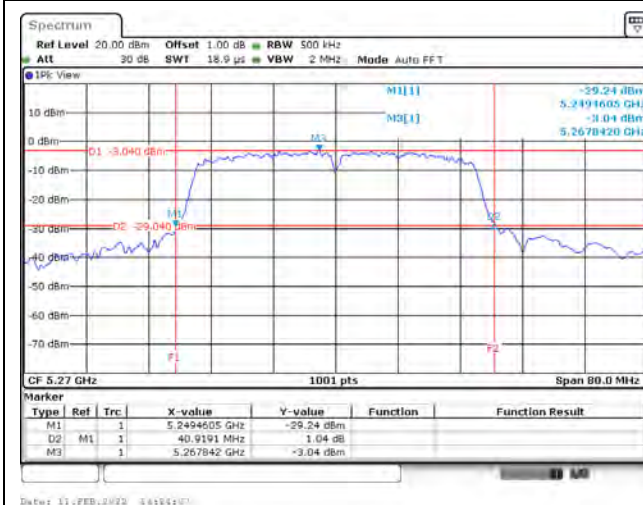
802.11ac (20 MHz) / Ant. 1 / 5260 MHz (U-NII-2A)



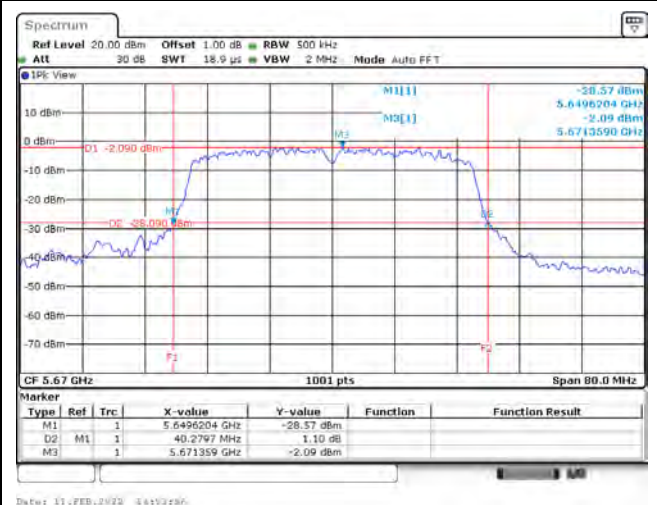
802.11ac (20 MHz) / Ant. 1 / 5500 MHz (U-NII-2C)



802.11ac (40 MHz) / Ant. 0 / 5270 MHz (U-NII-2A)



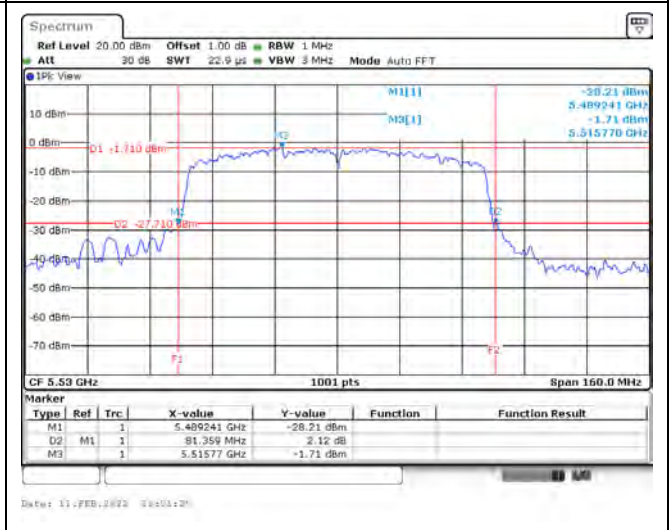
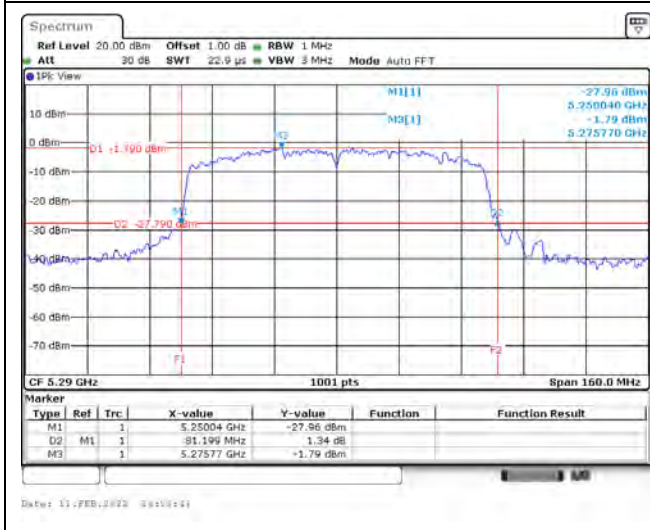
802.11ac (40 MHz) / Ant. 1 / 5670 MHz (U-NII-2C)



Spectrum plot of worst value

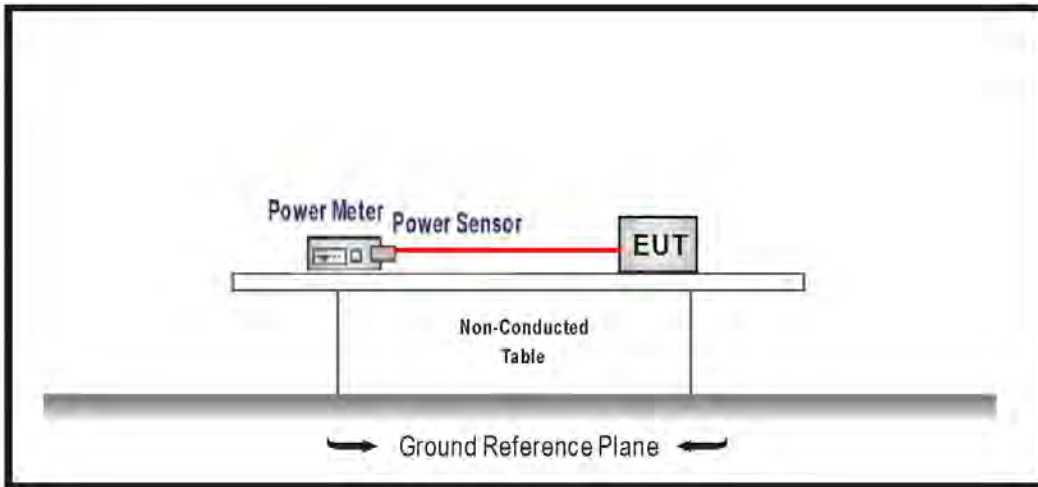
802.11ac (80 MHz) / Ant. 1 / 5290 MHz (U-NII-2A)

802.11ac (80 MHz) / Ant. 1 / 5530 MHz (U-NII-2C)



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

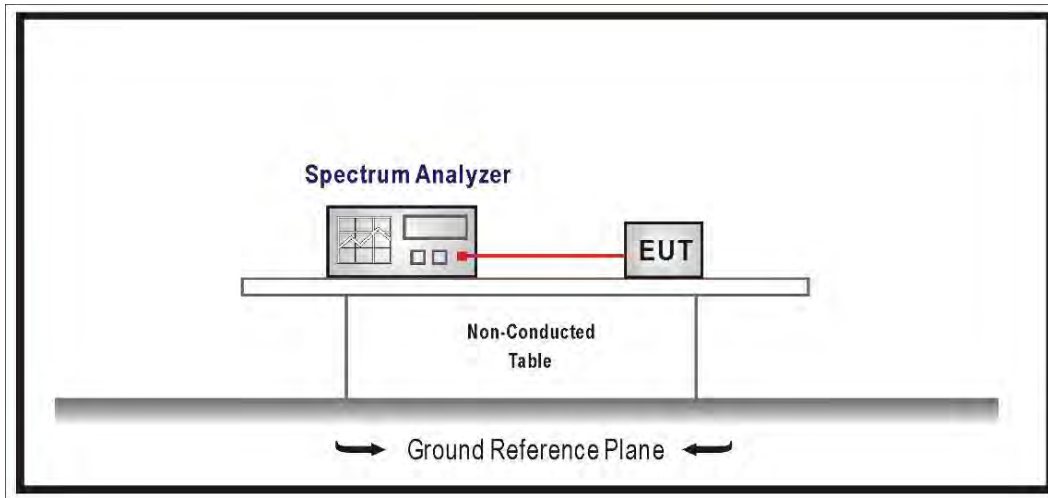
Modulation	Channel	Frequency (MHz)	Maximum Conducted Output Power (dBm)			Limit (dBm)	Result
			Ant. 0	Ant. 1	Total		
802.11a	52	5260	7.210	7.480	10.357	≤ 23.87	Pass
	60	5300	7.020	7.170	10.106	≤ 23.81	Pass
	64	5320	7.040	7.310	10.187	≤ 23.87	Pass
	100	5500	7.110	7.270	10.201	≤ 23.81	Pass
	116	5580	7.030	7.160	10.106	≤ 23.81	Pass
	140	5700	7.040	7.280	10.172	≤ 23.89	Pass
802.11ac (20 MHz)	52	5260	7.010	7.410	10.225	≤ 24.00	Pass
	60	5300	7.060	7.370	10.228	≤ 24.00	Pass
	64	5320	7.210	7.350	10.291	≤ 24.00	Pass
	100	5500	7.350	7.220	10.296	≤ 24.00	Pass
	116	5580	7.340	7.170	10.266	≤ 24.00	Pass
	140	5700	7.120	7.500	10.324	≤ 24.00	Pass
802.11ac (40 MHz)	54	5270	7.010	7.230	10.132	≤ 24.00	Pass
	62	5310	7.040	7.260	10.162	≤ 24.00	Pass
	102	5510	7.320	7.000	10.173	≤ 24.00	Pass
	110	5550	7.180	7.250	10.225	≤ 24.00	Pass
	134	5670	7.010	7.100	10.066	≤ 24.00	Pass
802.11ac (80 MHz)	58	5290	7.040	7.010	10.035	≤ 24.00	Pass
	106	5530	7.020	7.060	10.050	≤ 24.00	Pass
	122	5610	7.040	6.960	10.010	≤ 24.00	Pass

Note:

1. 802.11a, 5260 MHz limit= $11+10*\log(B)$ or 24dBm; $11+10*\log(19.380)=23.87\text{dBm}<24\text{dBm}$, so limit=23.87dBm.
2. 802.11a, 5300 MHz limit= $11+10*\log(B)$ or 24dBm; $11+10*\log(19.100)=23.81\text{dBm}<24\text{dBm}$, so limit=23.81dBm.
3. 802.11a, 5320 MHz limit= $11+10*\log(B)$ or 24dBm; $11+10*\log(19.380)=23.87\text{dBm}<24\text{dBm}$, so limit=23.87dBm.
4. 802.11a, 5500 MHz limit= $11+10*\log(B)$ or 24dBm; $11+10*\log(19.100)=23.81\text{dBm}<24\text{dBm}$, so limit=23.81dBm.
5. 802.11a, 5580 MHz limit= $11+10*\log(B)$ or 24dBm; $11+10*\log(19.100)=23.81\text{dBm}<24\text{dBm}$, so limit=23.81dBm.
6. 802.11a, 5700 MHz limit= $11+10*\log(B)$ or 24dBm; $11+10*\log(19.460)=23.89\text{dBm}<24\text{dBm}$, so limit=23.89dBm.

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

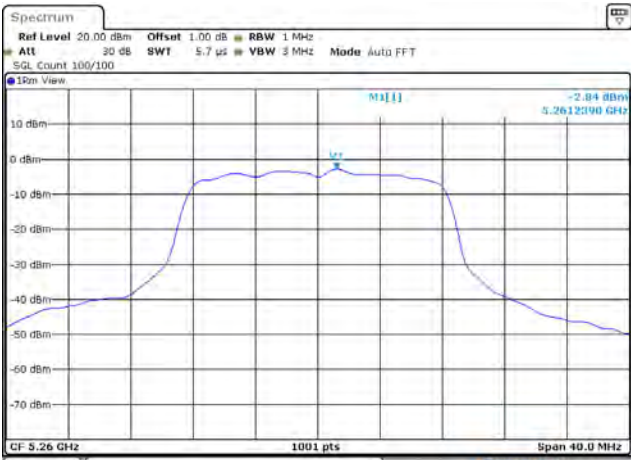
Modulation	Channel	Frequency (MHz)	Power Spectral Density (dBm)			Limit (dBm)	Result
			Ant. 0	Ant. 1	Total		
802.11a	52	5260	-2.840	-3.030	0.323	≤ 9.99	Pass
	60	5300	-3.750	-3.860	-0.547	≤ 9.99	Pass
	64	5320	-3.530	-3.070	-0.037	≤ 9.99	Pass
	100	5500	-3.810	-3.760	-0.528	≤ 9.99	Pass
	116	5580	-3.480	-3.650	-0.307	≤ 9.99	Pass
	140	5700	-3.830	-3.460	-0.384	≤ 9.99	Pass
802.11ac (20 MHz)	52	5260	-4.180	-3.430	-0.531	≤ 9.99	Pass
	60	5300	-4.010	-3.890	-0.692	≤ 9.99	Pass
	64	5320	-4.010	-3.830	-0.662	≤ 9.99	Pass
	100	5500	-3.940	-3.820	-0.622	≤ 9.99	Pass
	116	5580	-4.070	-4.000	-0.778	≤ 9.99	Pass
	140	5700	-3.860	-3.650	-0.496	≤ 9.99	Pass
802.11ac (40 MHz)	54	5270	-7.110	-6.770	-3.686	≤ 9.99	Pass
	62	5310	-6.930	-7.250	-3.836	≤ 9.99	Pass
	102	5510	-7.260	-7.160	-3.959	≤ 9.99	Pass
	110	5550	-7.310	-7.000	-3.901	≤ 9.99	Pass
	134	5670	-7.340	-7.320	-4.079	≤ 9.99	Pass
802.11ac (80 MHz)	58	5290	-10.520	-10.580	-7.101	≤ 9.99	Pass
	106	5530	-10.150	-10.350	-6.799	≤ 9.99	Pass
	122	5610	-10.600	-10.410	-7.055	≤ 9.99	Pass

Note:

1. Total power spectral density=power spectral density + duty factor, and the duty factor refer to section 1.10.
2. Directional gain= $10 \log [(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / N_{Ant}] = 7.01 \text{dBi} > 6 \text{dBi}$, so limit = $11 - (7.01 - 6) = 9.99 \text{dBm}$.

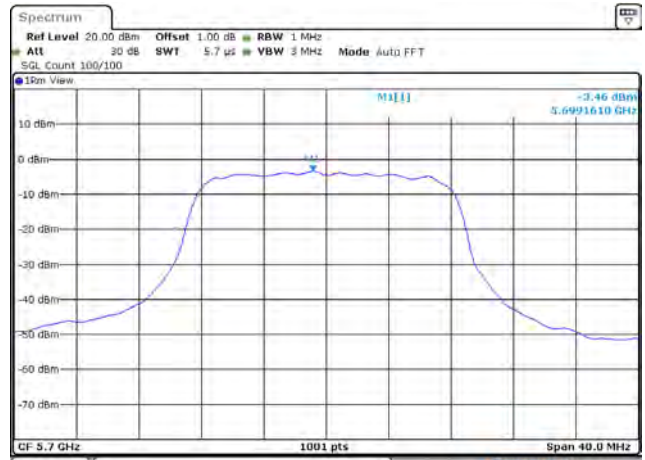
Spectrum plot of worst value

802.11a / Ant. 0 / 5260 MHz (U-NII-2A)



Date: 11-FEB-2022 08:19:16

802.11a / Ant. 1 / 5700 MHz (U-NII-2C)



Date: 11-FEB-2022 01:31:01

802.11ac (20 MHz) / Ant. 1 / 5260 MHz (U-NII-2A)



Date: 11-FEB-2022 08:19:25

802.11ac (20 MHz) / Ant. 1 / 5700 MHz (U-NII-2C)



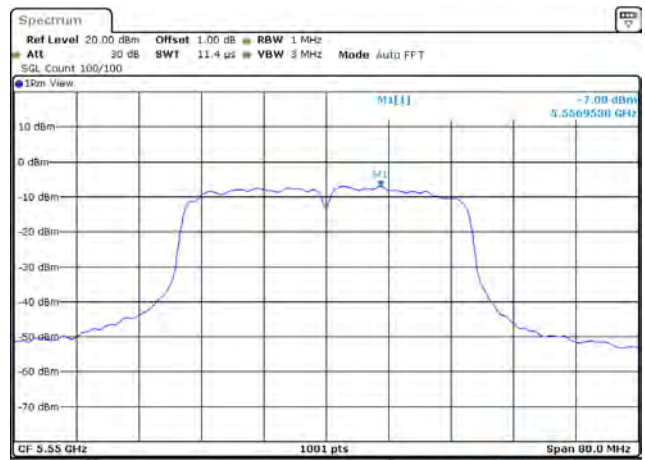
Date: 11-FEB-2022 08:11:27

802.11ac (40 MHz) / Ant. 1 / 5270 MHz (U-NII-2A)



Date: 11-FEB-2022 08:23:20

802.11ac (40 MHz) / Ant. 1 / 5500 MHz (U-NII-2C)

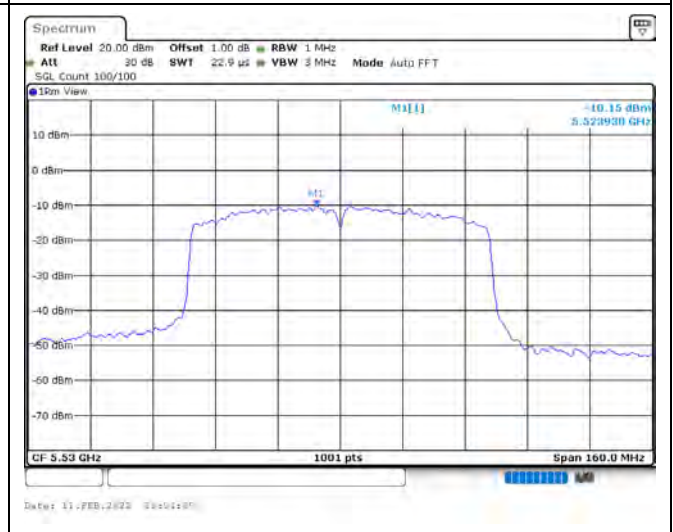
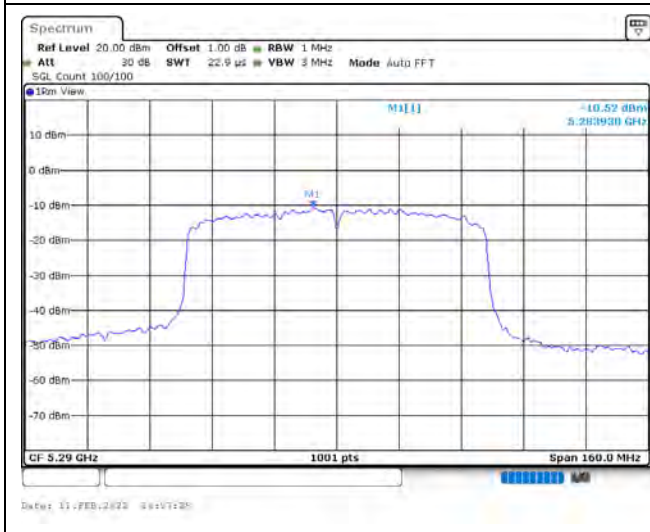


Date: 11-FEB-2022 08:23:20

Spectrum plot of worst value

802.11ac (80 MHz) / Ant. 0 / 5290 MHz (U-NII-2A)

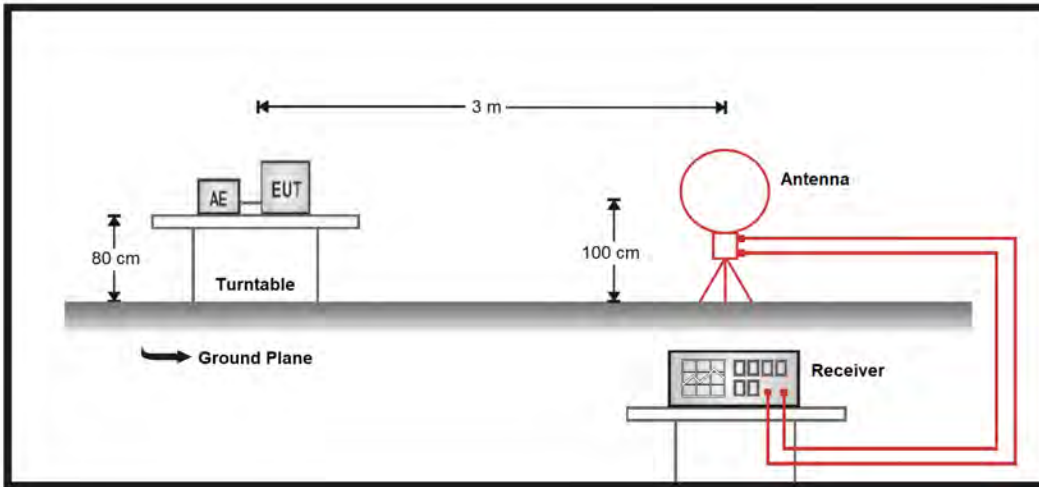
802.11ac (80 MHz) / Ant. 0 / 5530 MHz (U-NII-2C)



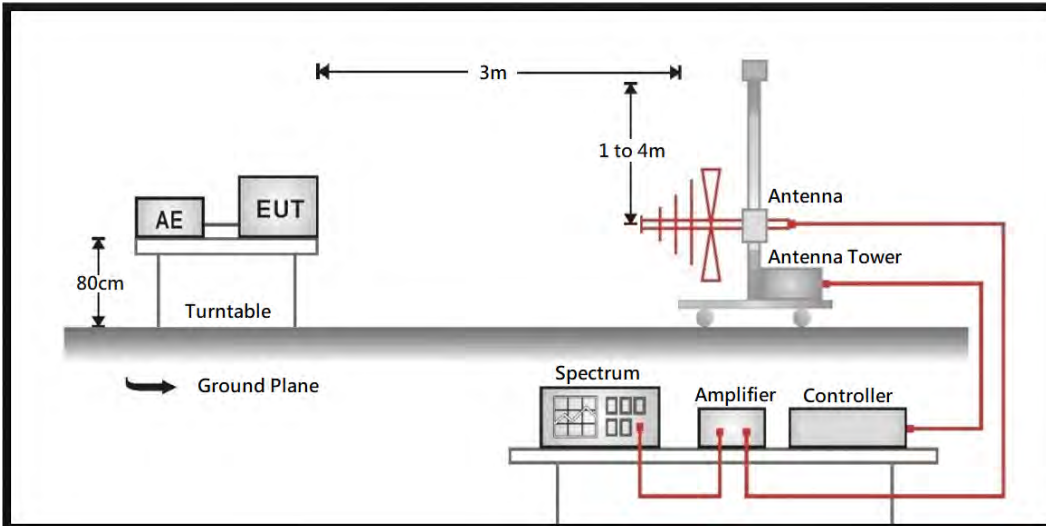
7. Radiated Emission

7.1. Test Setup

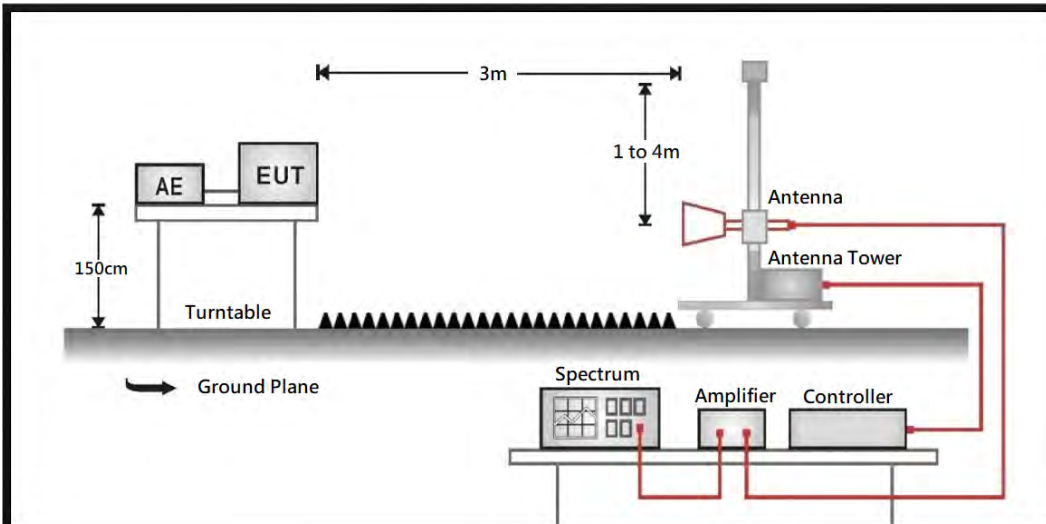
9 kHz ~ 30 MHz



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.

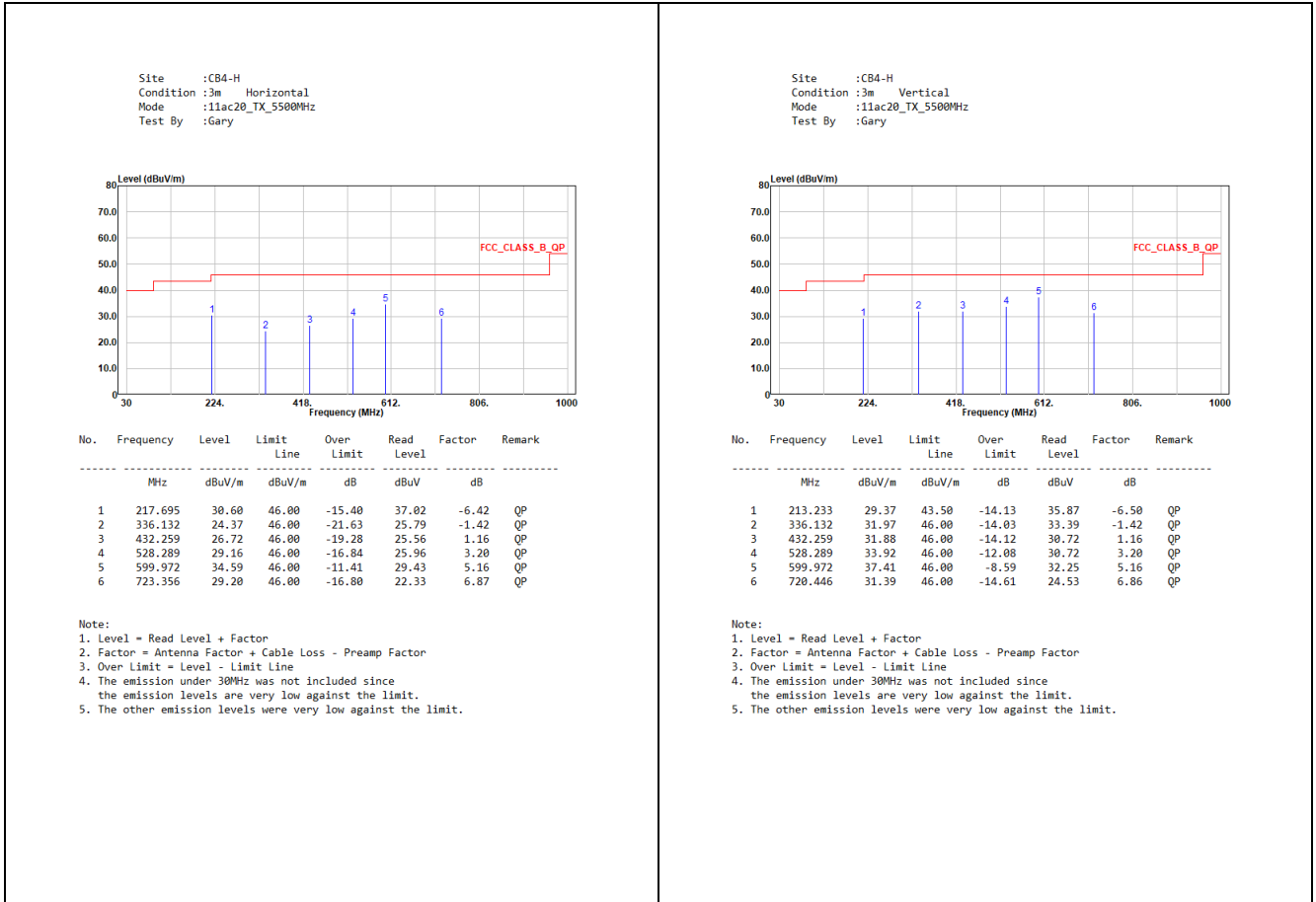
The frequency range from 30 MHz to 10th harmonics and included The frequency range from the lowest oscillator frequency generated within the device up to the 10th harmonic was checked is checked.

7.4. Test Specification

According to FCC CFR Title 47 Part 15 Subpart E.

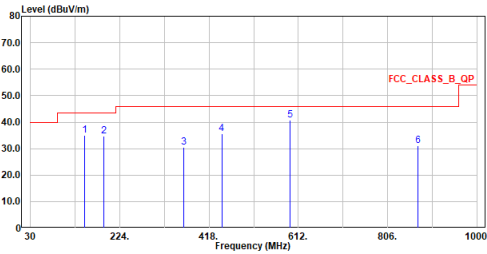
7.5. Test Result of Radiated Emissions (30 MHz ~ 1 GHz)

Mode 1: Transmit_Adapter



Mode 2: Transmit_Docking Station

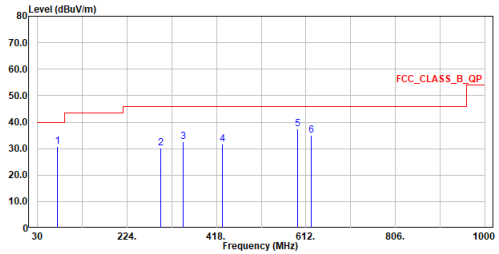
Site :CB4-H
 Condition :3m Horizontal
 Mode :11ac20_TX_5500MHz
 Test By :Ling



No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	148.534	35.02	43.50	-8.48	38.26	-3.24	QP
2	189.856	34.69	43.50	-8.81	40.25	-5.56	QP
3	363.486	30.39	46.00	-15.61	31.25	-0.86	QP
4	445.548	35.52	46.00	-10.48	33.99	1.53	QP
5	593.958	40.90	46.00	-5.10	36.01	4.89	QP
6	871.184	31.02	46.00	-14.98	22.28	8.74	QP

Note:
 1. Level = Read Level + Factor
 2. Factor = Antenna Factor + Cable Loss - Preamp Factor
 3. Over Limit = Level - Limit Line
 4. The emission under 30MHz was not included since the emission levels are very low against the limit.
 5. The other emission levels were very low against the limit.

Site :CB4-H
 Condition :3m Vertical
 Mode :11ac20_TX_5500MHz
 Test By :Ling

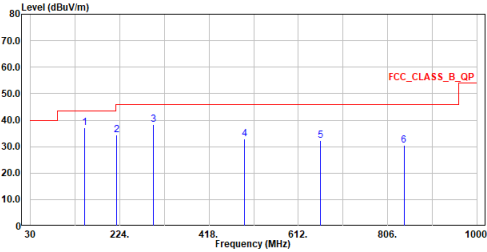


No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	72.777	30.87	40.00	-9.13	35.94	-5.07	QP
2	297.041	30.19	46.00	-15.81	32.67	-2.48	QP
3	344.959	32.61	46.00	-13.39	33.99	-1.38	QP
4	431.289	31.69	46.00	-14.31	30.58	1.11	QP
5	593.958	37.37	46.00	-8.63	32.48	4.89	QP
6	624.319	34.90	46.00	-11.10	29.56	5.34	QP

Note:
 1. Level = Read Level + Factor
 2. Factor = Antenna Factor + Cable Loss - Preamp Factor
 3. Over Limit = Level - Limit Line
 4. The emission under 30MHz was not included since the emission levels are very low against the limit.
 5. The other emission levels were very low against the limit.

Mode 3 : Transmit_Extension Cover

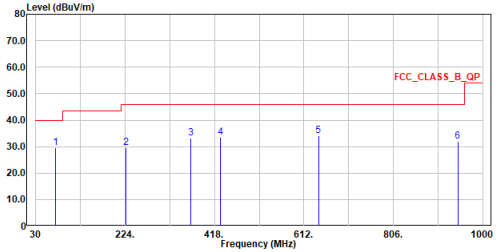
Site :CB4-H
 Condition :3m Horizontal
 Mode :11ac20_TX_5500MHz
 Test By :Ling



No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	148.534	37.11	43.50	-6.39	40.35	-3.24	QP
2	217.889	34.42	46.00	-11.58	40.83	-6.41	QP
3	297.041	38.46	46.00	-7.54	40.94	-2.48	QP
4	495.018	32.78	46.00	-13.22	30.30	2.48	QP
5	660.015	32.29	46.00	-13.71	26.63	5.66	QP
6	841.502	30.58	46.00	-15.42	22.13	8.45	QP

Note:
 1. Level = Read Level + Factor
 2. Factor = Antenna Factor + Cable Loss - Preamp Factor
 3. Over Limit = Level - Limit Line
 4. The emission under 30MHz was not included since the emission levels are very low against the limit.
 5. The other emission levels were very low against the limit.

Site :CB4-H
 Condition :3m Vertical
 Mode :11ac20_TX_5500MHz
 Test By :Ling



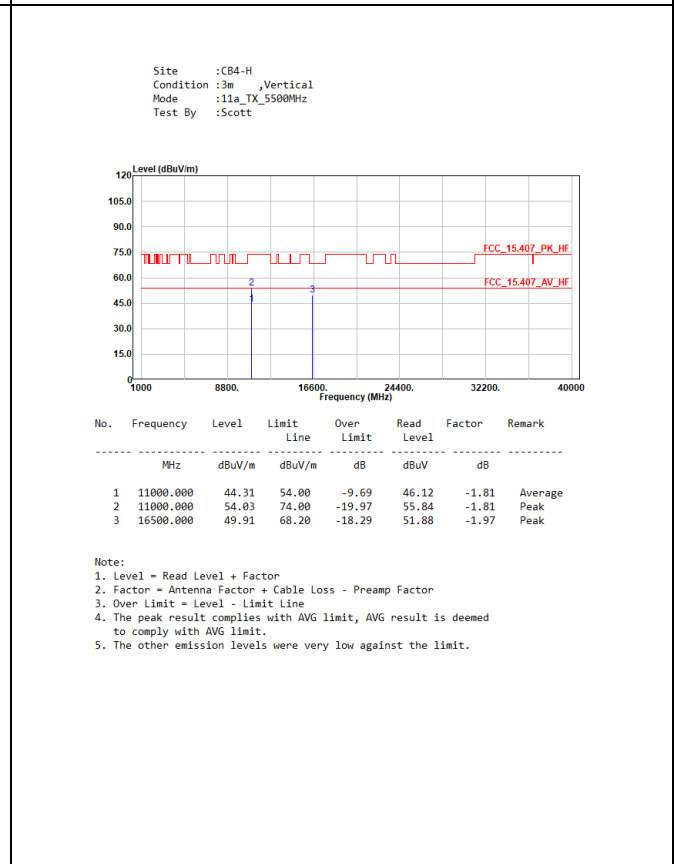
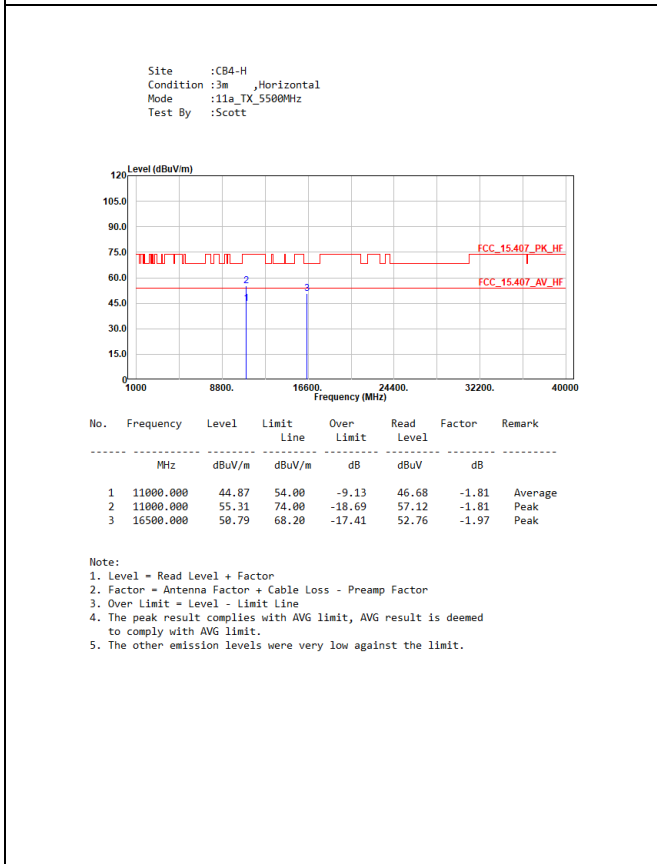
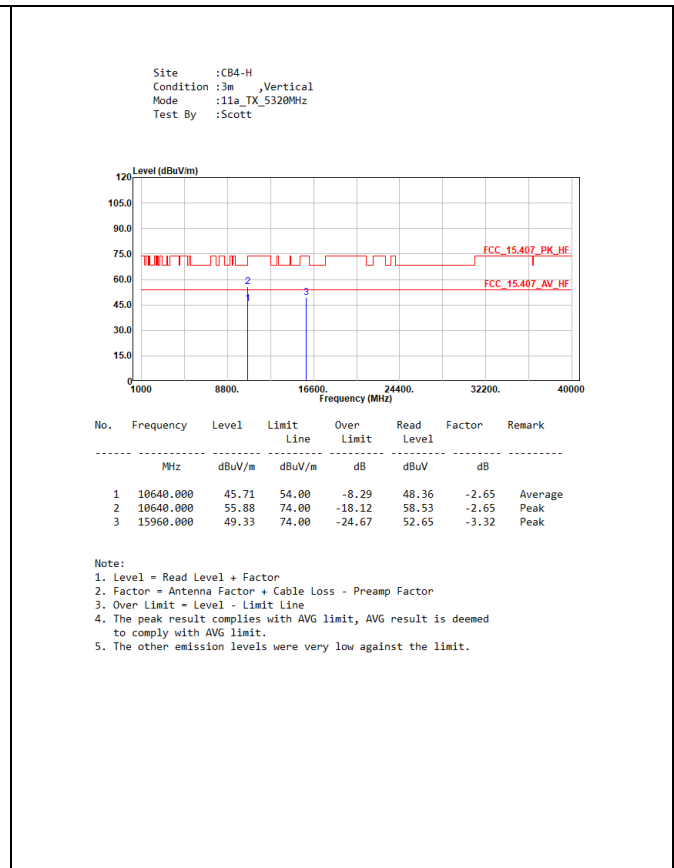
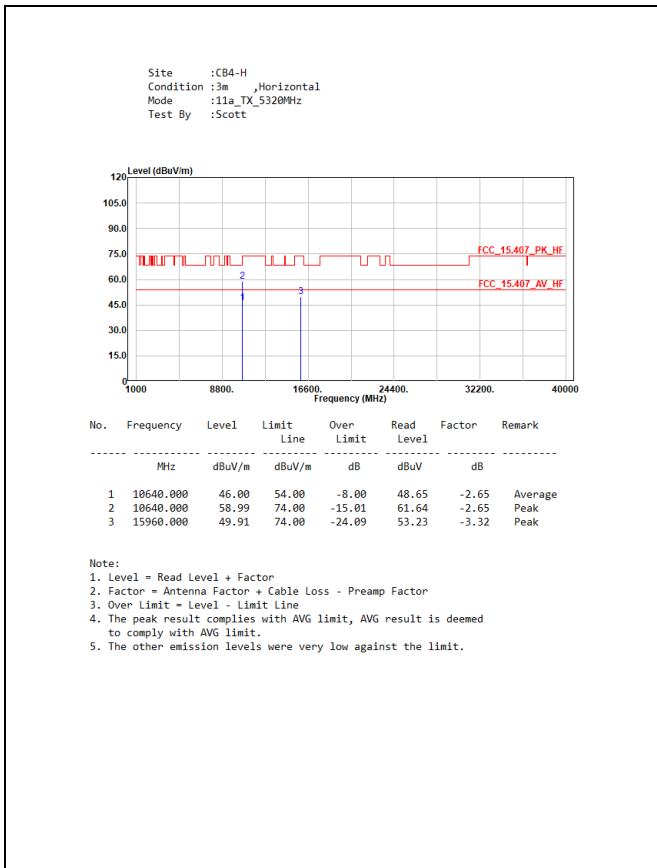
No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	72.680	29.50	40.00	-10.50	34.55	-5.05	QP
2	225.843	29.71	46.00	-16.29	35.75	-6.04	QP
3	365.911	33.30	46.00	-12.70	34.06	-0.76	QP
4	431.386	33.55	46.00	-12.45	32.43	1.12	QP
5	643.525	34.25	46.00	-11.75	28.37	5.88	QP
6	945.680	32.12	46.00	-13.88	22.22	9.90	QP

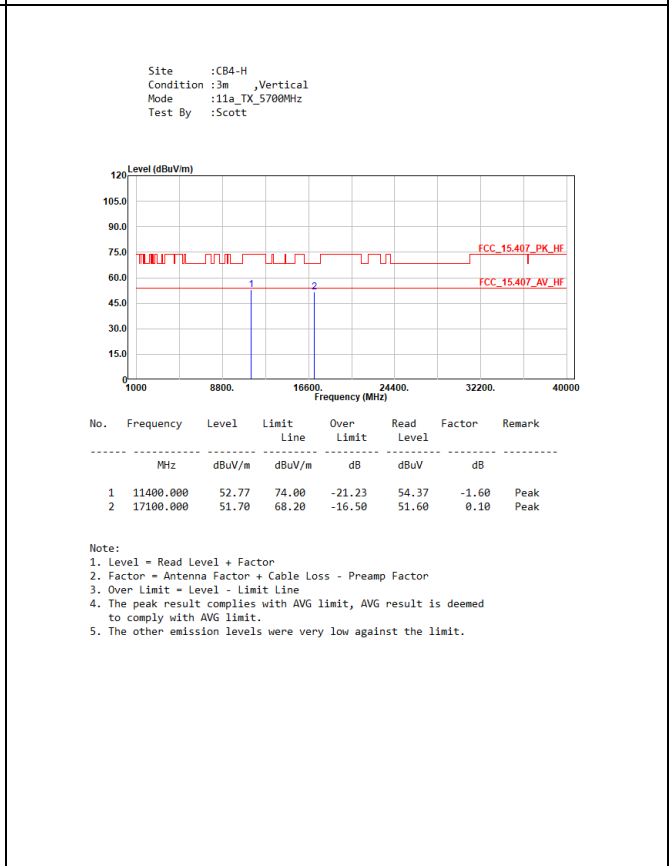
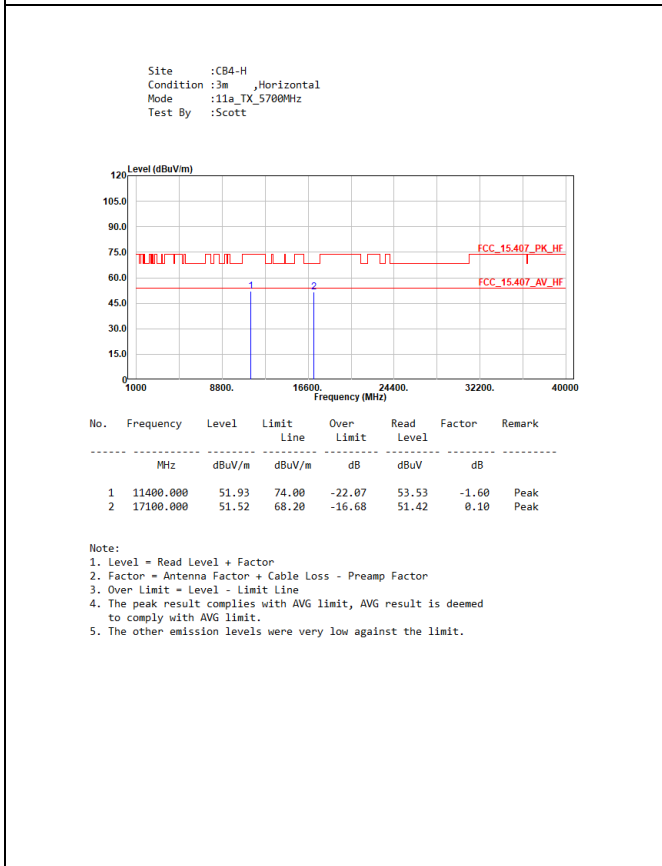
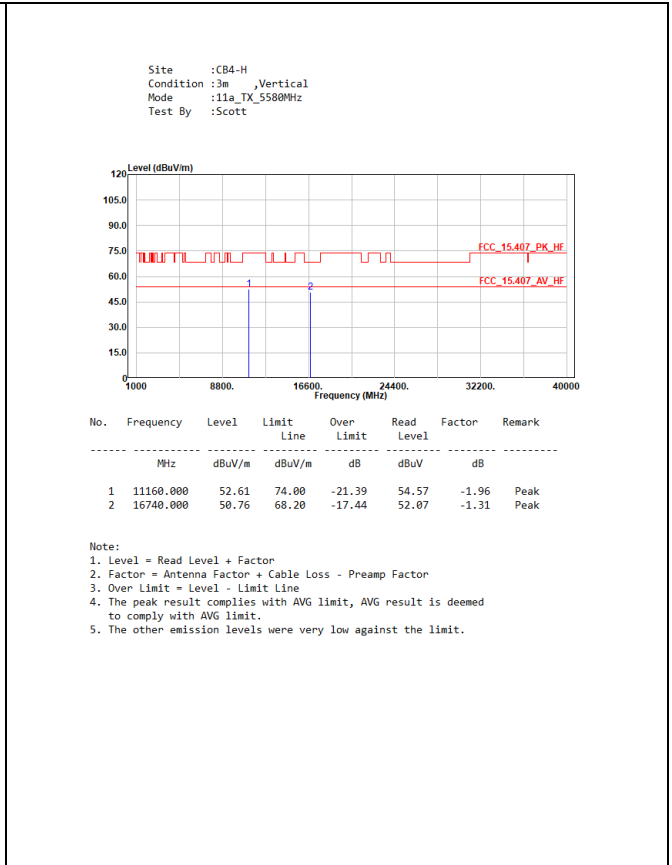
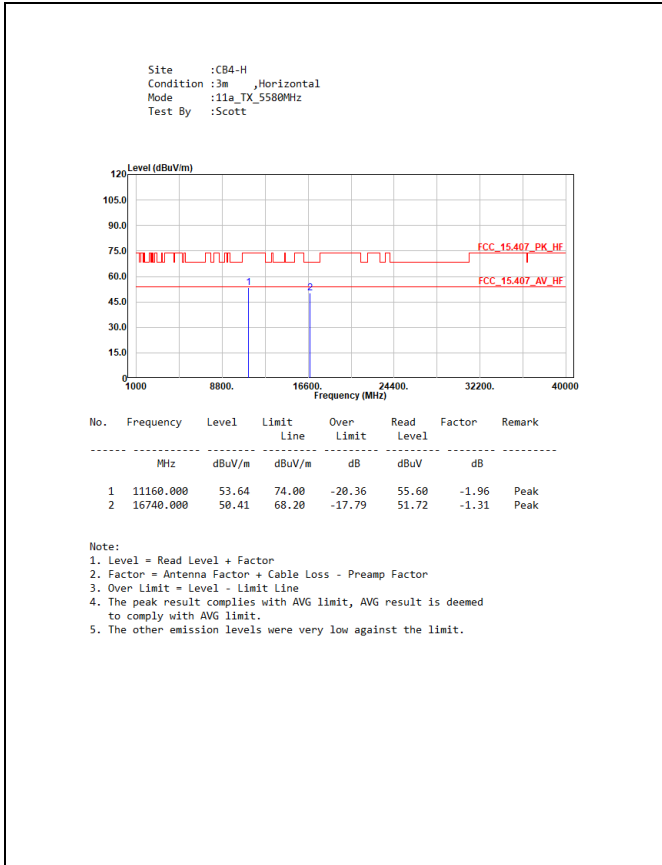
Note:
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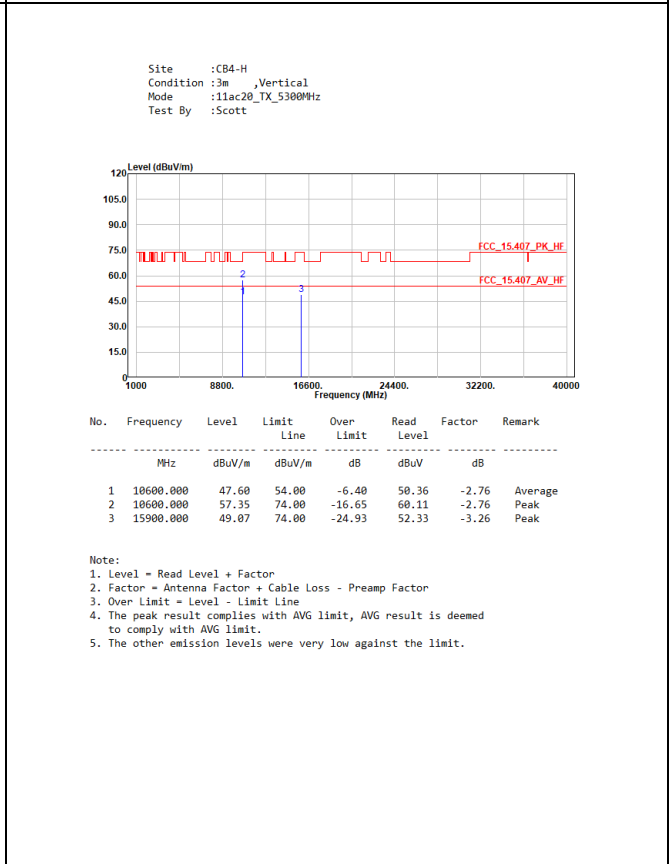
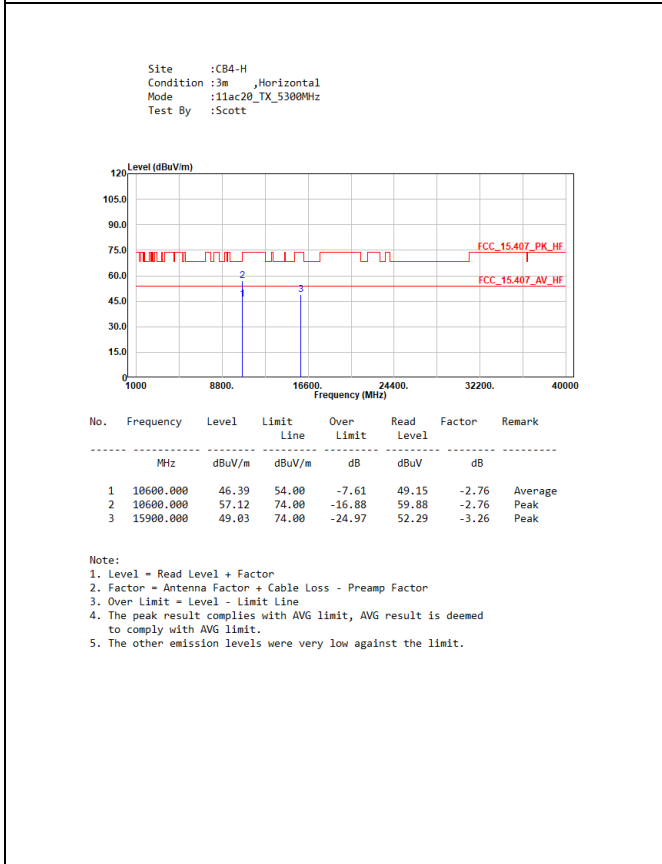
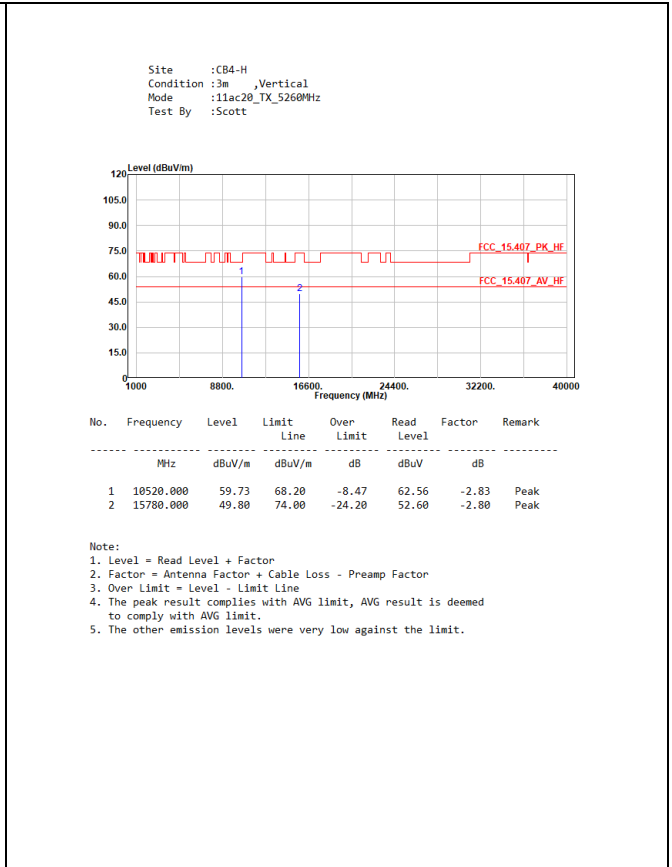
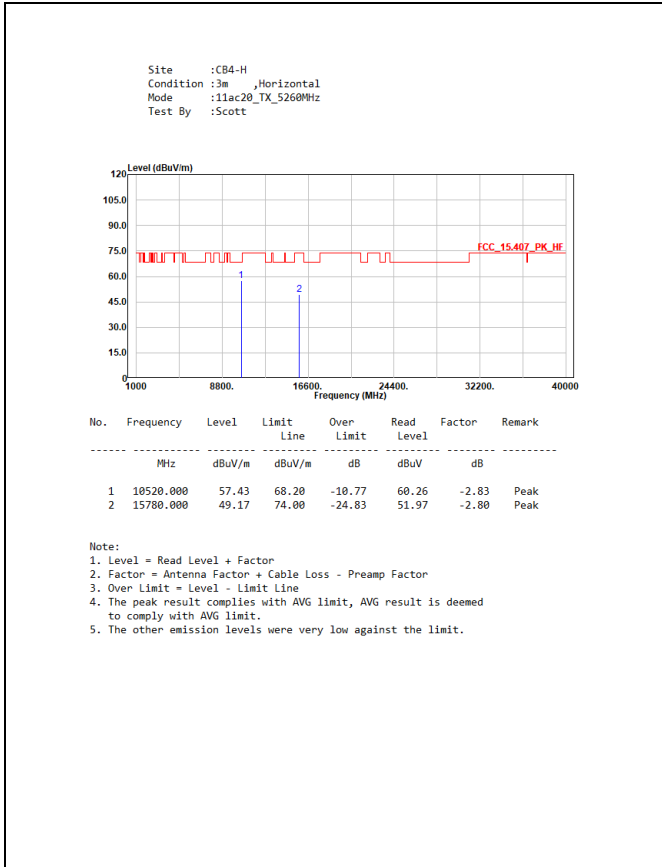
7.6. Test Result of Radiated Emissions (1 GHz ~ 10th Harmonic)

Mode 3 : Transmit_Extension Cover

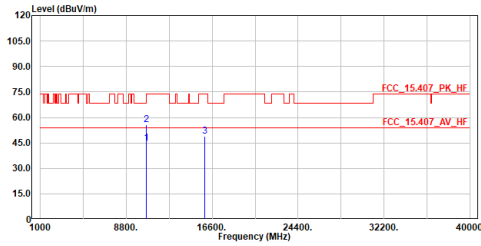
<p>Site :CB4-H Condition :3m ,Horizontal Mode :11a_TX_5260MHz Test By :Scott</p> <table border="1"> <thead> <tr> <th>No.</th> <th>Frequency</th> <th>Level</th> <th>Limit</th> <th>Over</th> <th>Read</th> <th>Factor</th> <th>Remark</th> </tr> <tr> <th></th> <th>MHz</th> <th>dBuV/m</th> <th>dBuV/m</th> <th>dB</th> <th>dBuV</th> <th>dB</th> <th></th> </tr> </thead> <tbody> <tr> <td>1</td> <td>10520.000</td> <td>59.49</td> <td>68.20</td> <td>-8.71</td> <td>62.32</td> <td>-2.83</td> <td>Peak</td> </tr> <tr> <td>2</td> <td>15780.000</td> <td>49.85</td> <td>74.00</td> <td>-24.15</td> <td>52.65</td> <td>-2.80</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	10520.000	59.49	68.20	-8.71	62.32	-2.83	Peak	2	15780.000	49.85	74.00	-24.15	52.65	-2.80	Peak	<p>Site :CB4-H Condition :3m ,Vertical Mode :11a_TX_5260MHz Test By :Scott</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>10520.000</td> <td>58.66</td> <td>68.20</td> <td>-9.54</td> <td>61.49</td> <td>-2.83</td> <td>Peak</td> </tr> <tr> <td>2</td> <td>15780.000</td> <td>50.11</td> <td>74.00</td> <td>-23.89</td> <td>52.91</td> <td>-2.80</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	10520.000	58.66	68.20	-9.54	61.49	-2.83	Peak	2	15780.000	50.11	74.00	-23.89	52.91	-2.80	Peak																
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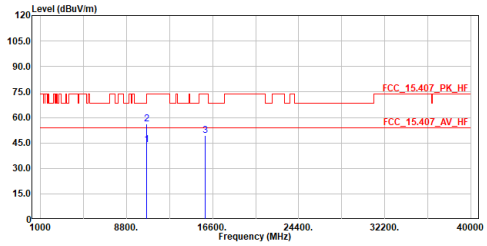
Site :CB4-H
 Condition :3m ,Horizontal
 Mode :11ac20_TX_5320MHz
 Test By :Scott



No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	10640.000	44.80	54.00	-9.20	47.45	-2.65	Average
2	10640.000	55.90	74.00	-18.10	58.55	-2.65	Peak
3	15960.000	48.89	74.00	-25.11	52.21	-3.32	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.

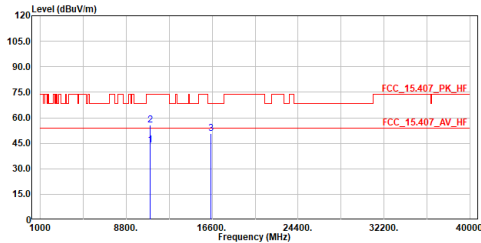
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 Condition :3m ,Vertical
 Mode :11ac20_TX_5320MHz
 Test By :Scott



No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	10640.000	44.12	54.00	-9.88	46.77	-2.65	Average
2	10640.000	56.06	74.00	-17.94	58.71	-2.65	Peak
3	15960.000	49.49	74.00	-24.51	52.81	-3.32	Peak

Note:
 1. Level = Read Level + Factor
 2. Factor = Antenna Factor + Cable Loss - Preamp Factor
 3. Over Limit = Level - Limit Line
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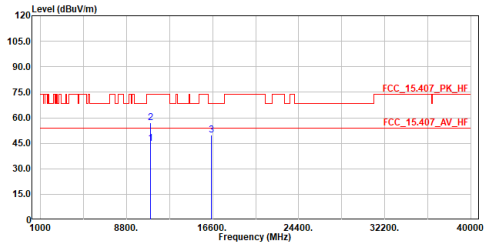
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 Mode :11ac20_TX_5500MHz
 Test By :Scott



No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	11000.000	43.81	54.00	-10.19	45.62	-1.81	Average
2	11000.000	55.80	74.00	-18.20	57.61	-1.81	Peak
3	16500.000	50.54	68.20	-17.66	52.51	-1.97	Peak

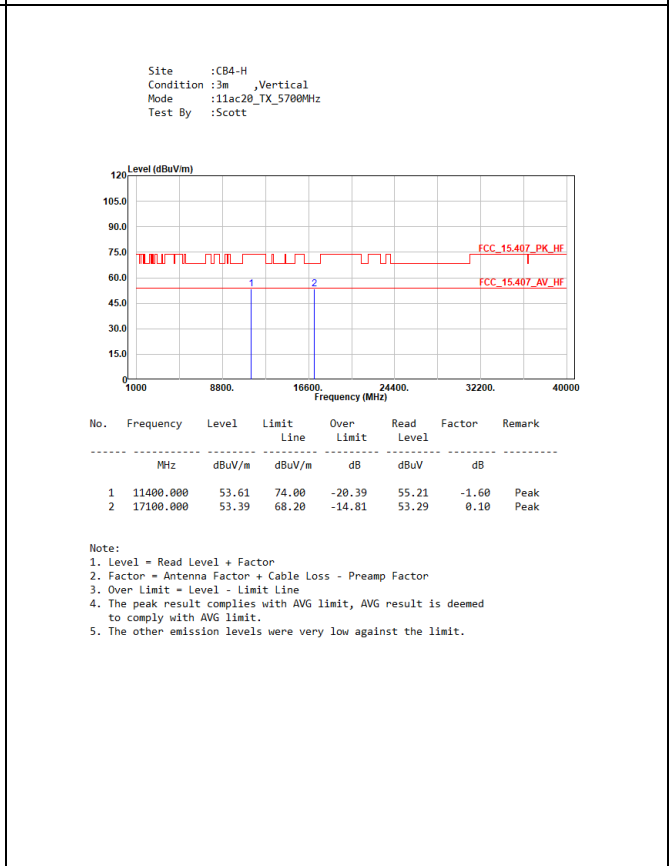
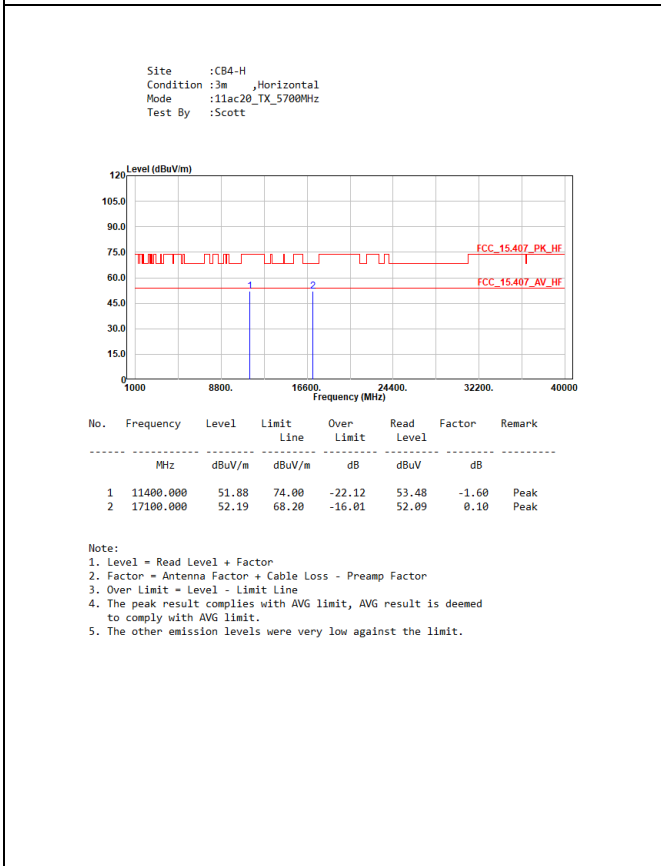
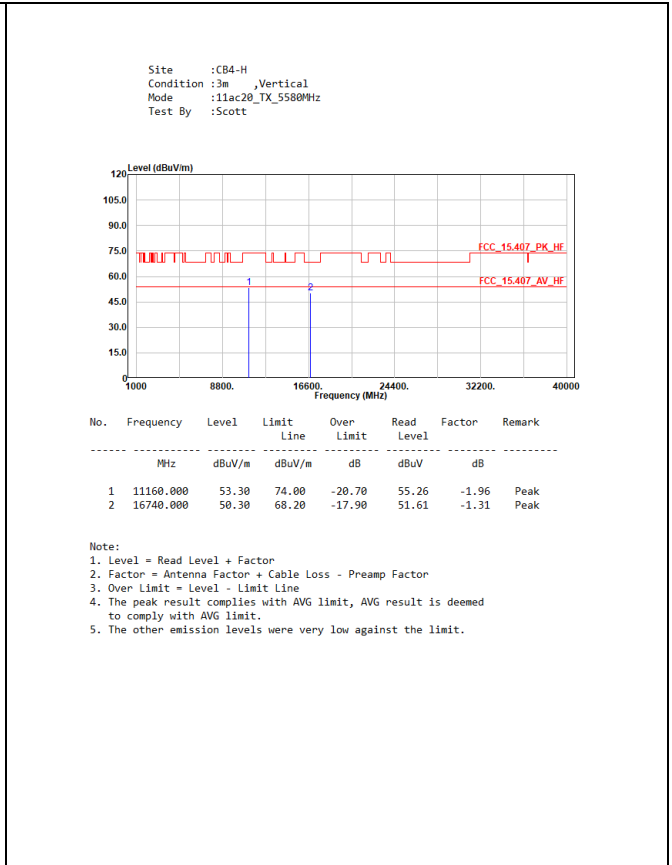
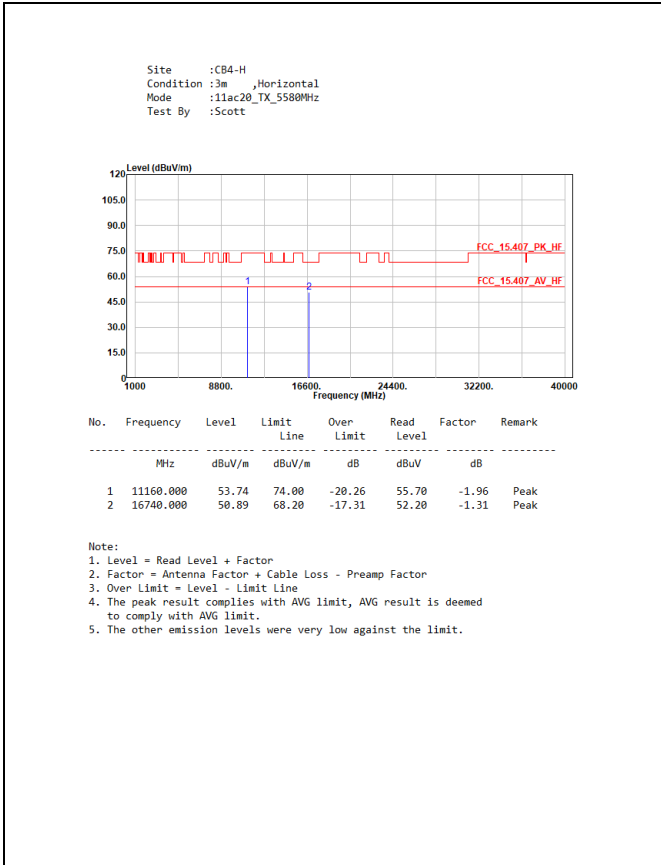
Note:
 1. Level = Read Level + Factor
 2. Factor = Antenna Factor + Cable Loss - Preamp Factor
 3. Over Limit = Level - Limit Line
 4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
 5. The other emission levels were very low against the limit.

Site :CB4-H
 Condition :3m ,Vertical
 Mode :11ac20_TX_5500MHz
 Test By :Scott

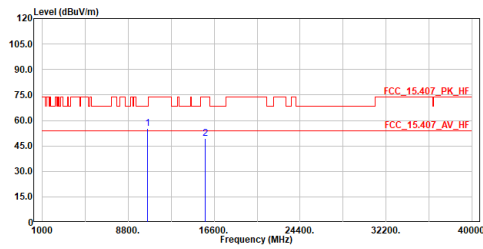


No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	11000.000	44.68	54.00	-9.32	46.49	-1.81	Average
2	11000.000	56.93	74.00	-17.07	58.74	-1.81	Peak
3	16500.000	49.81	68.20	-18.39	51.78	-1.97	Peak

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.



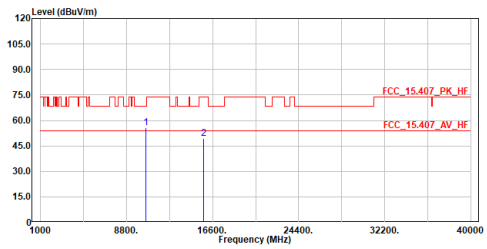
Site :CB4-H
 Condition :3m ,Horizontal
 Mode :11ac40_TX_5270MHz
 Test By :Scott



No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	10540.000	55.10	68.20	-13.10	57.91	-2.81	Peak
2	15810.000	49.53	74.00	-24.47	52.41	-2.88	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.

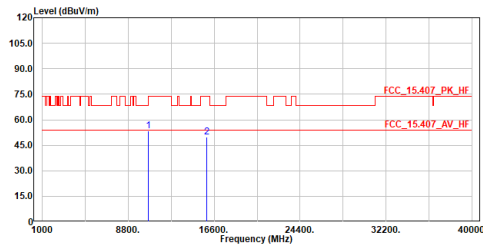
Site :CB4-H
 Condition :3m ,Vertical
 Mode :11ac40_TX_5270MHz
 Test By :Scott



No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	10540.000	55.69	68.20	-12.51	58.50	-2.81	Peak
2	15810.000	49.24	74.00	-24.76	52.12	-2.88	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.

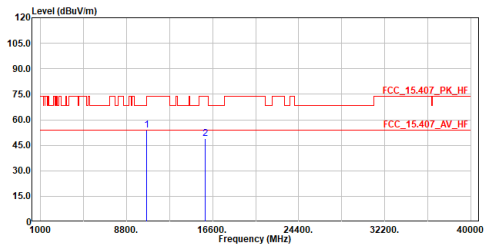
Site :CB4-H
 Condition :3m ,Horizontal
 Mode :11ac40_TX_5310MHz
 Test By :Scott



No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	10620.000	53.65	74.00	-20.35	56.36	-2.71	Peak
2	15930.000	49.96	74.00	-24.04	53.25	-3.29	Peak

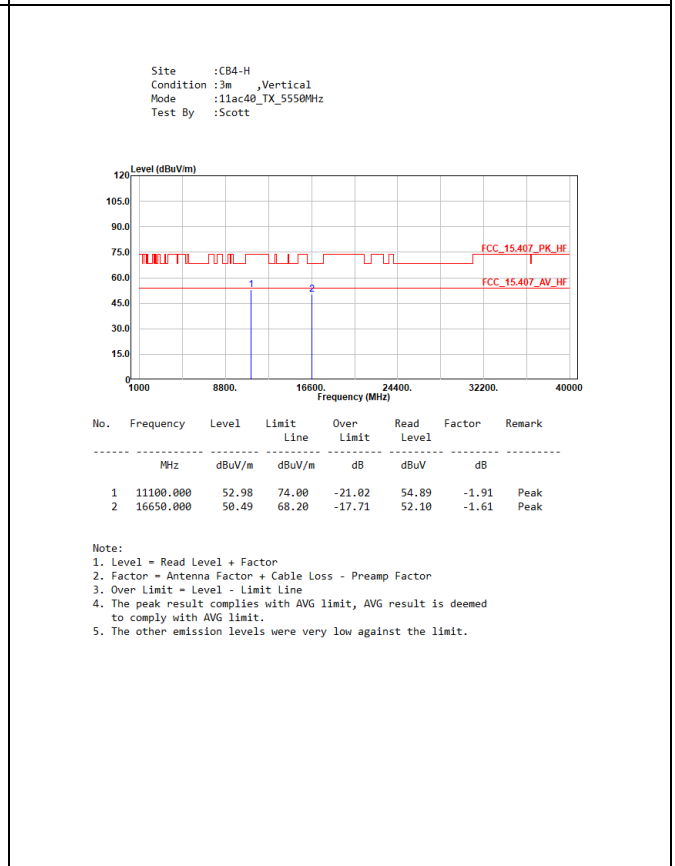
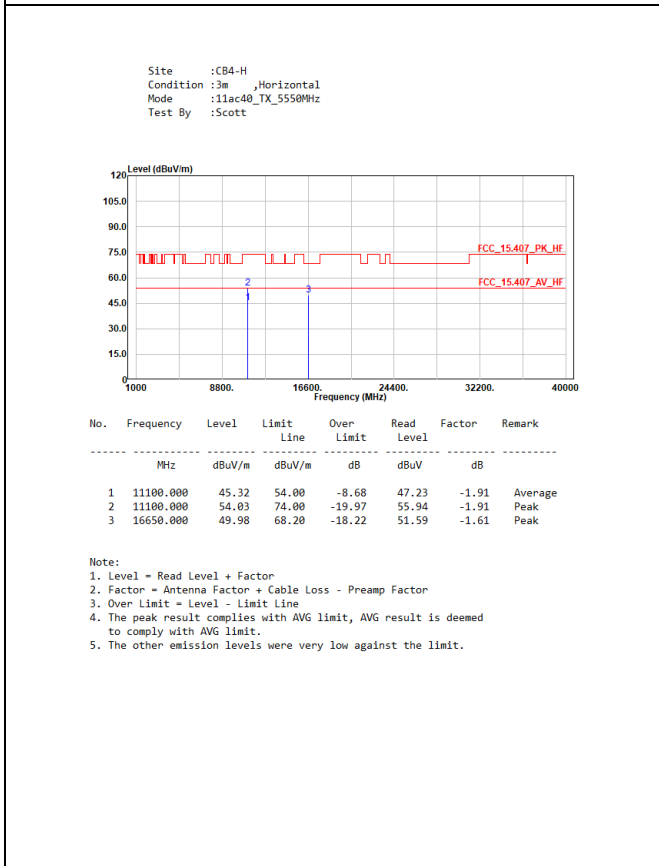
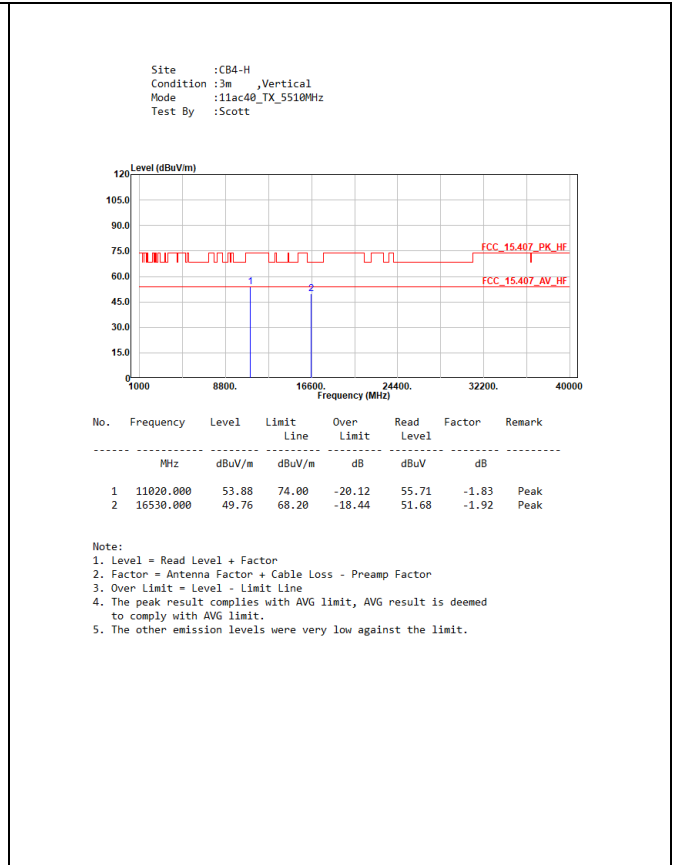
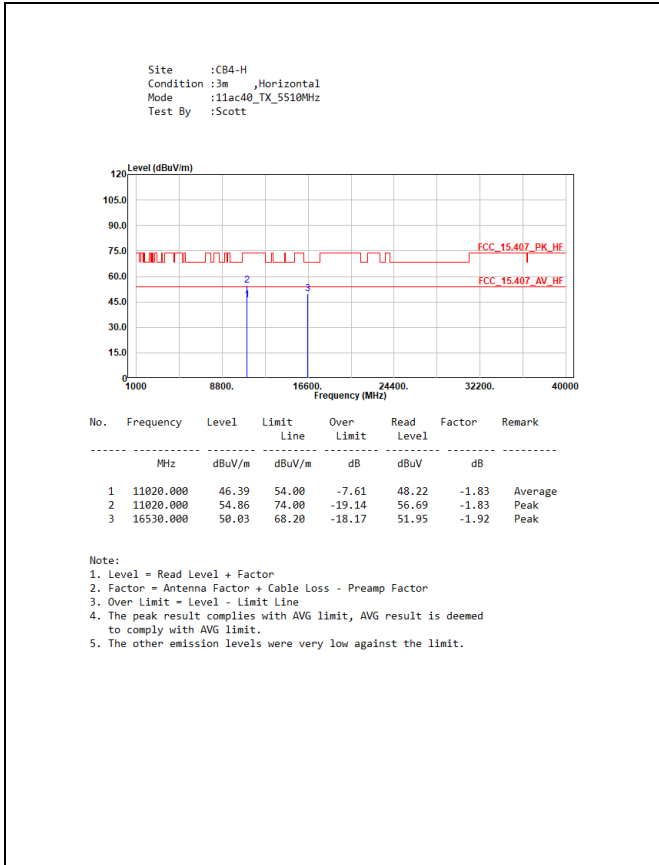
Note:
 1. Level = Read Level + Factor
 2. Factor = Antenna Factor + Cable Loss - Preamp Factor
 3. Over Limit = Level - Limit Line
 4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
 5. The other emission levels were very low against the limit.

Site :CB4-H
 Condition :3m ,Vertical
 Mode :11ac40_TX_5310MHz
 Test By :Scott

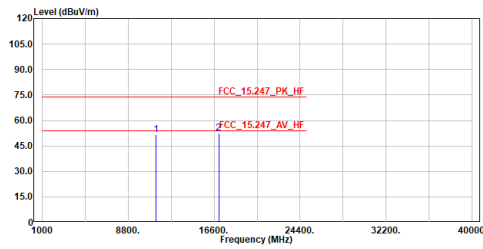


No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	10620.000	53.91	74.00	-20.09	56.62	-2.71	Peak
2	15930.000	49.06	74.00	-24.94	52.35	-3.29	Peak

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.



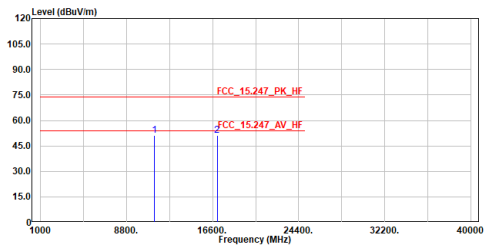
Site :CB4-H
 Condition :3m ,Horizontal
 Mode :11ac40_TX_5670MHz
 Test By :Scott



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	11340.000	51.58	74.00	-22.42	53.42	-1.84	Peak
2	17010.000	52.33	74.00	-21.67	52.77	-0.44	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.

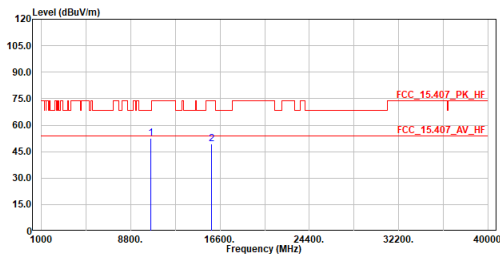
Site :CB4-H
 Condition :3m ,Vertical
 Mode :11ac40_TX_5670MHz
 Test By :Scott



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	11340.000	51.03	74.00	-22.97	52.87	-1.84	Peak
2	17010.000	51.24	74.00	-22.76	51.68	-0.44	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.

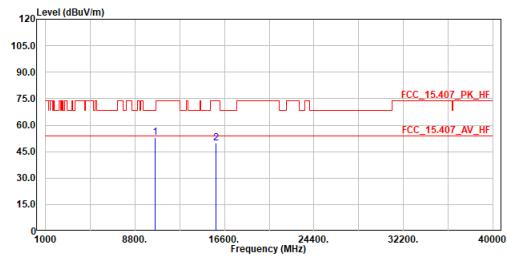
Site :CB4-H
 Condition :3m ,Horizontal
 Mode :11ac80_TX_5290MHz
 Test By :Scott



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	10580.000	52.74	68.20	-15.46	55.51	-2.77	Peak
2	15870.000	49.53	74.00	-24.47	52.66	-3.13	Peak

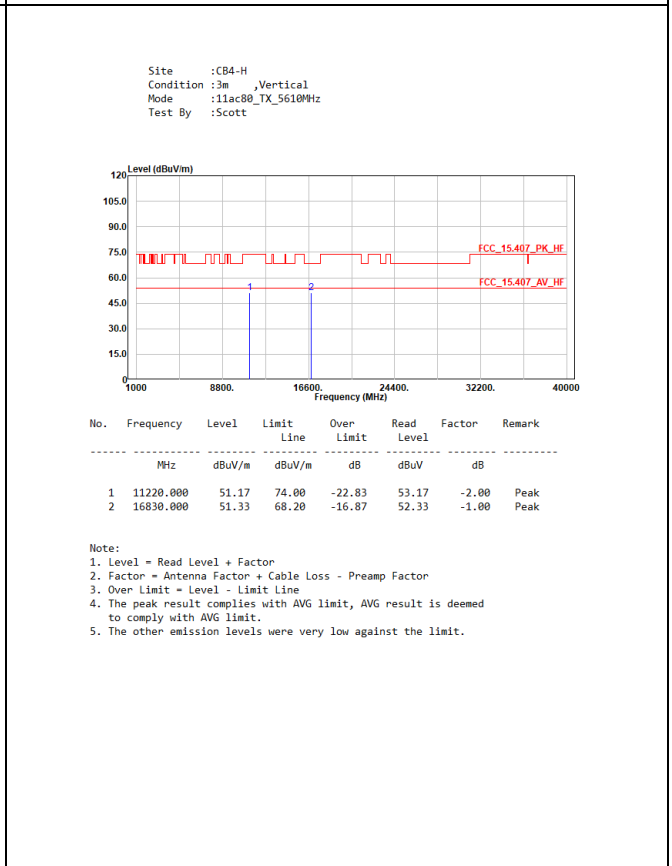
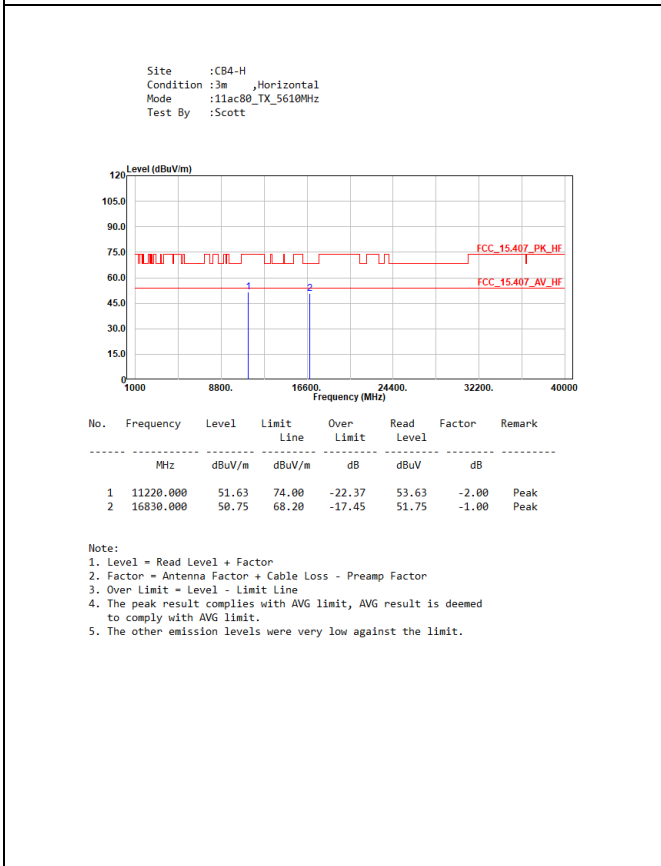
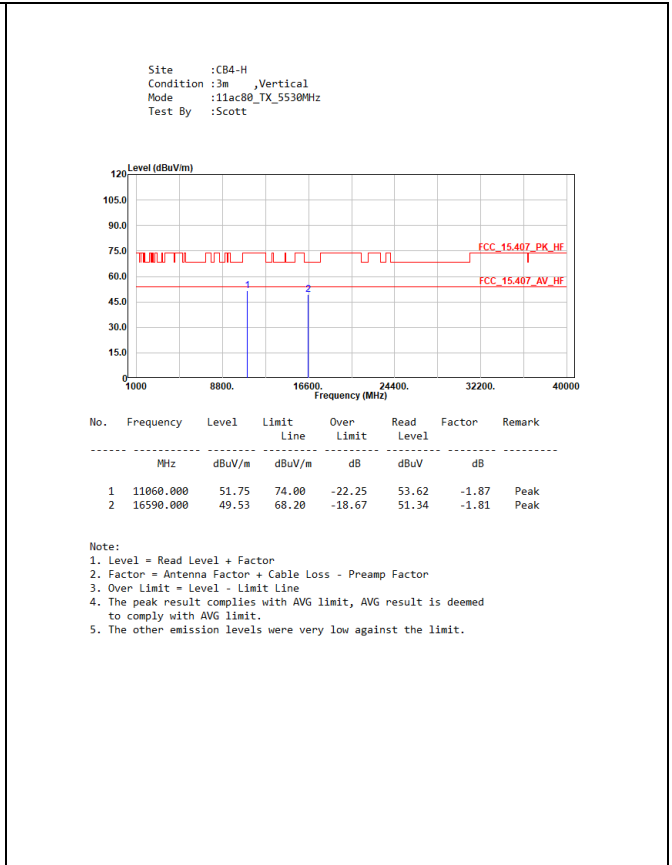
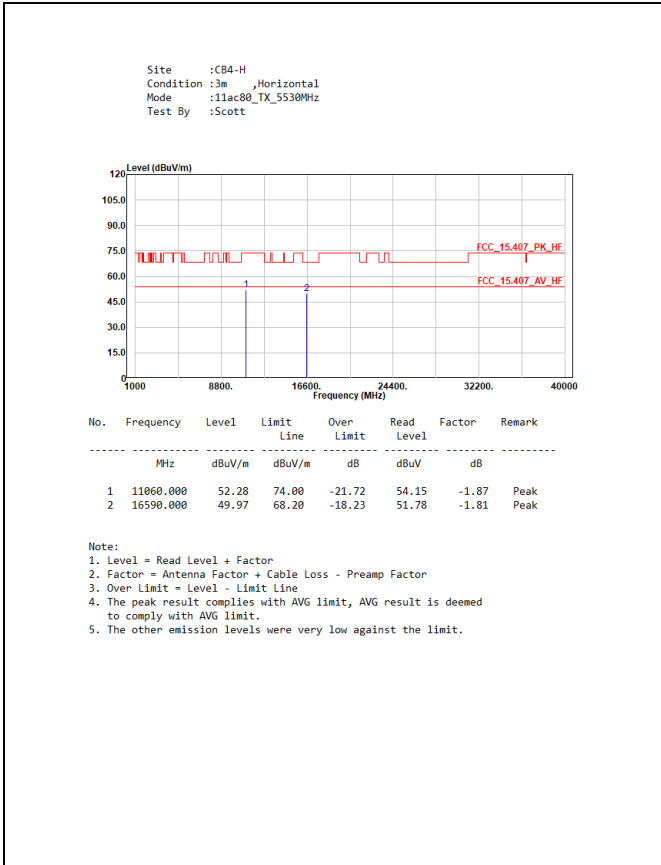
Note:
 1. Level = Read Level + Factor
 2. Factor = Antenna Factor + Cable Loss - Preamp Factor
 3. Over Limit = Level - Limit Line
 4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
 5. The other emission levels were very low against the limit.

Site :CB4-H
 Condition :3m ,Vertical
 Mode :11ac80_TX_5290MHz
 Test By :Scott



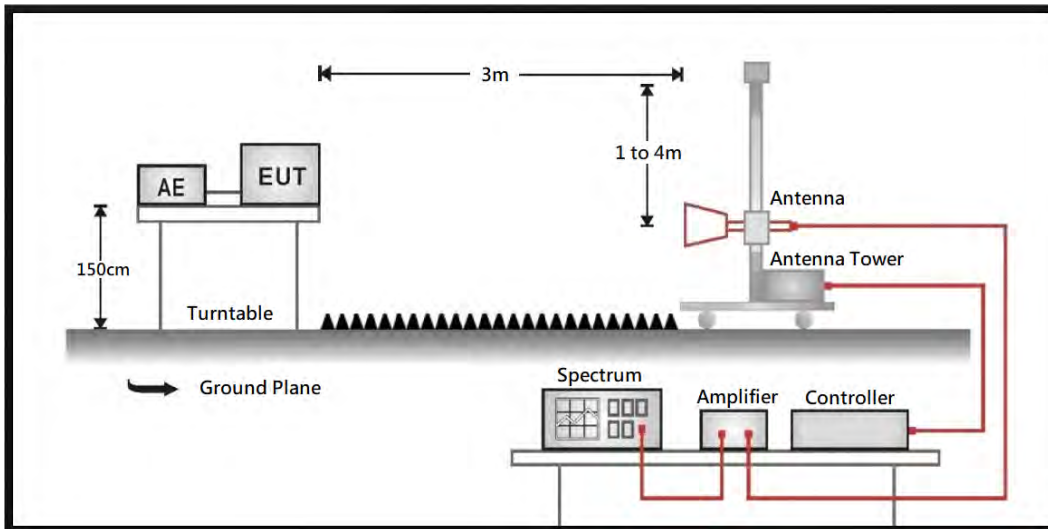
No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	10580.000	52.83	68.20	-15.37	55.60	-2.77	Peak
2	15870.000	49.84	74.00	-24.16	52.97	-3.13	Peak

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:

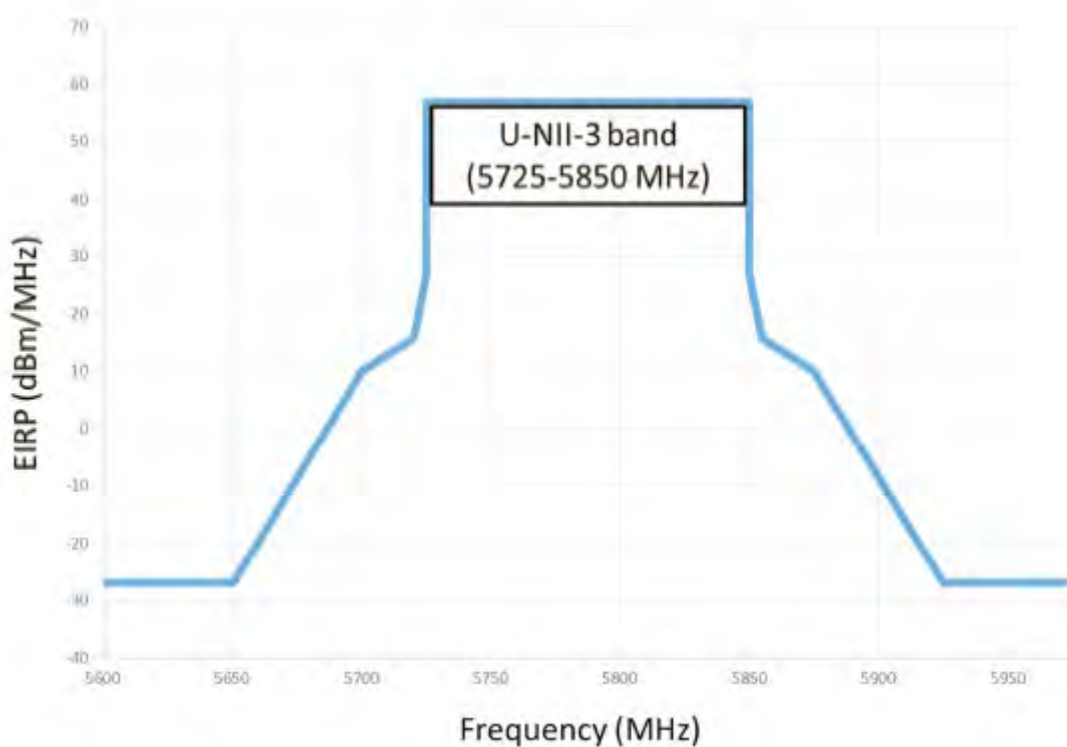
1. Field strength (dBuV/m) = 20 log Field strength (uV/m)
2. In the Above Table, the tighter limit applies at the band edges.
3. Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system

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.

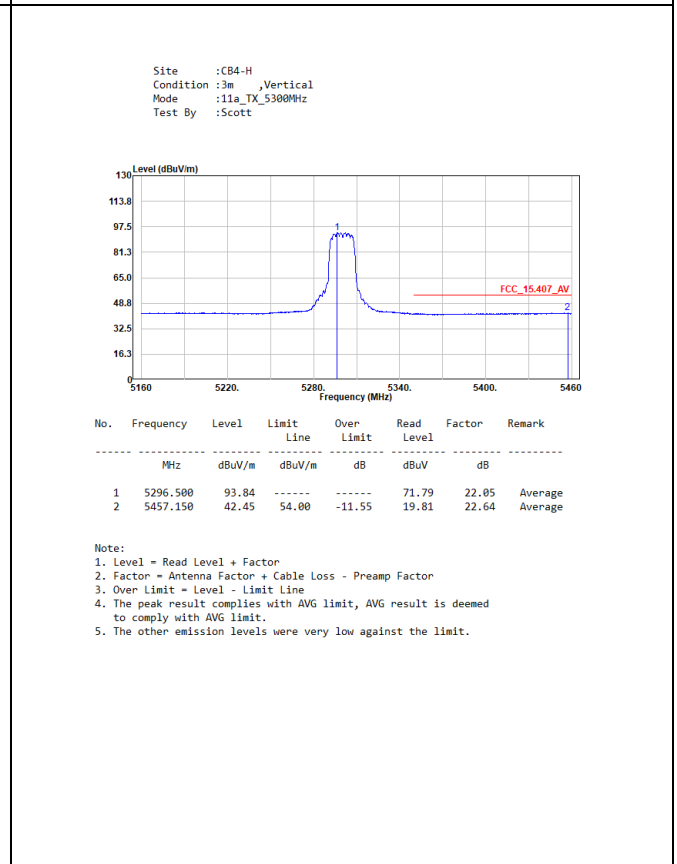
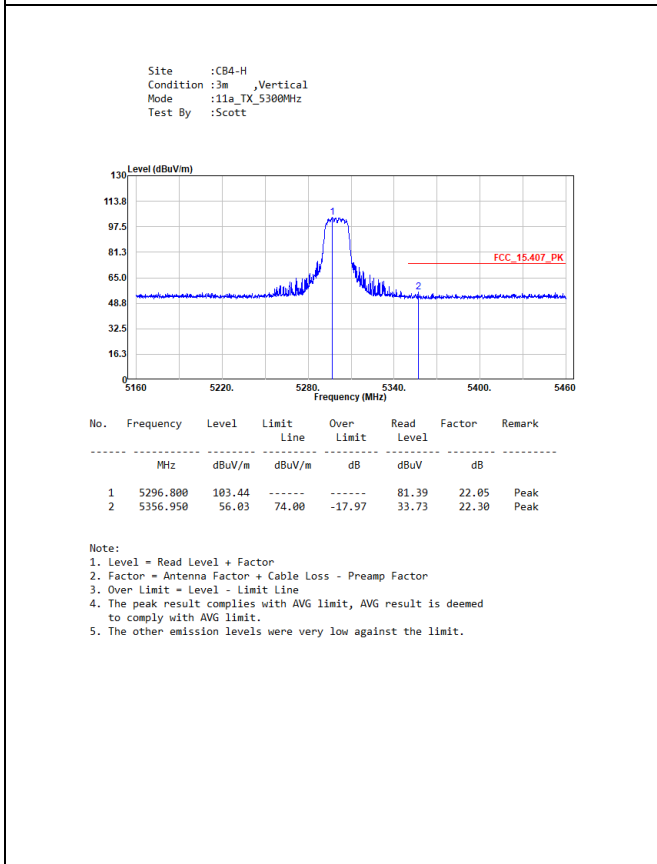
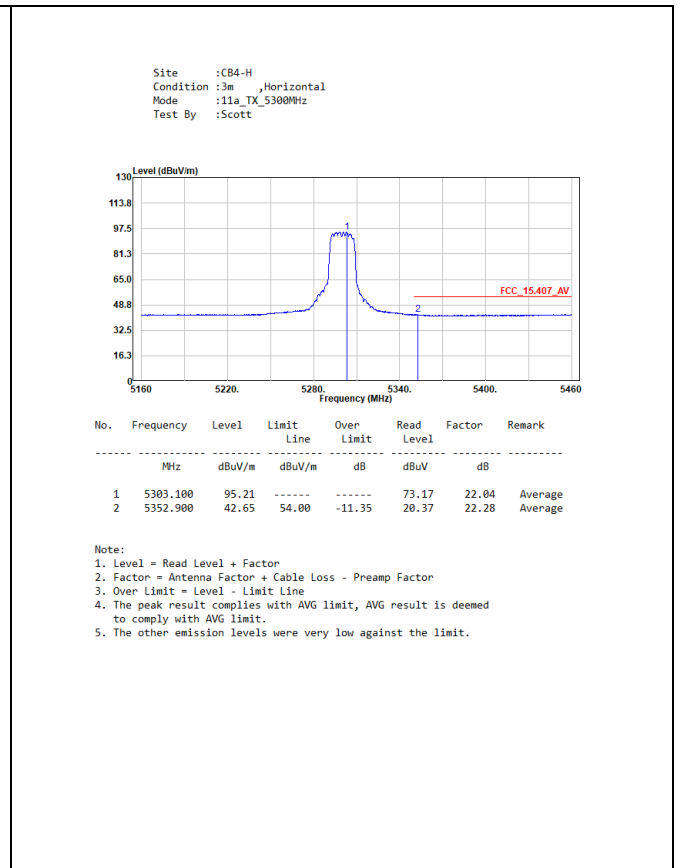
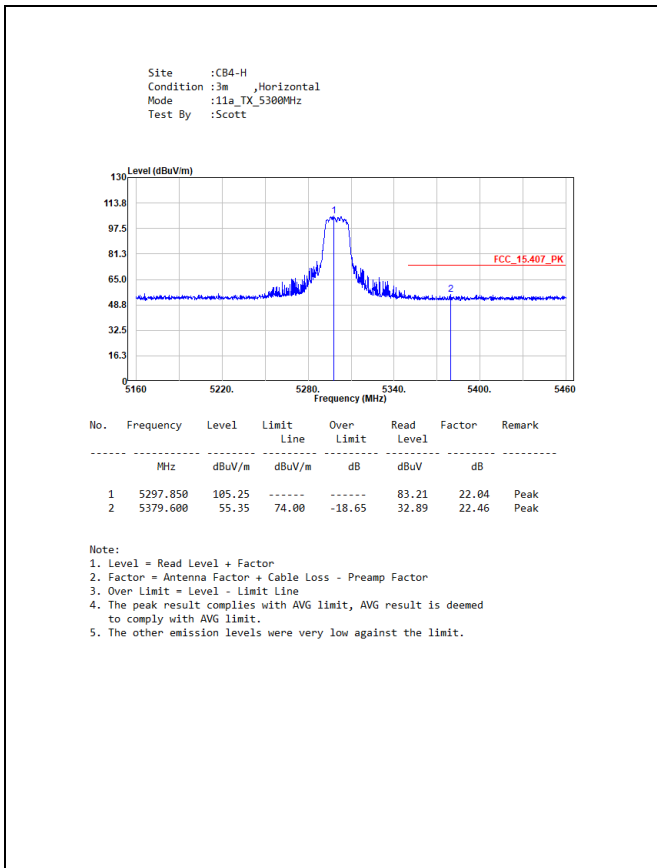
8.4. Test Specification

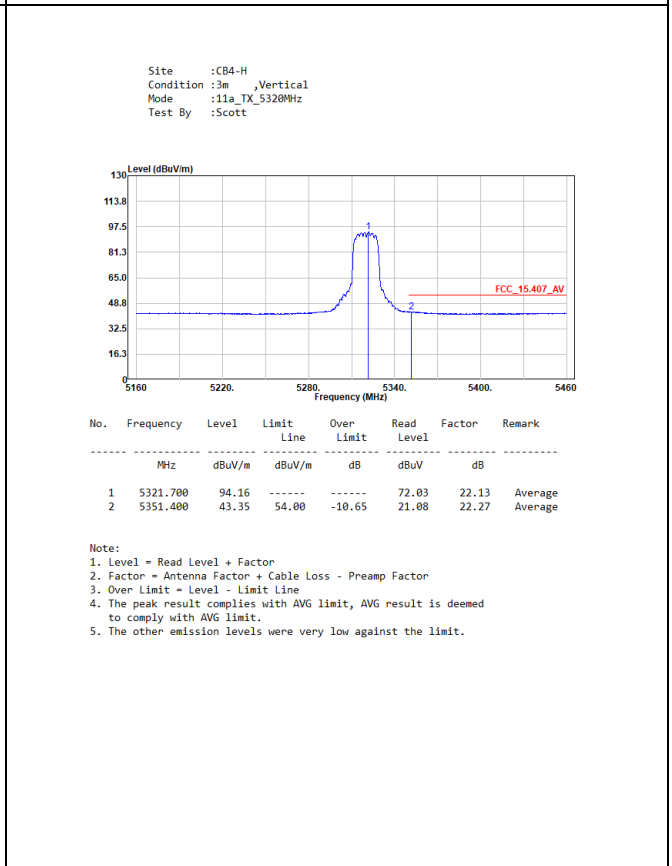
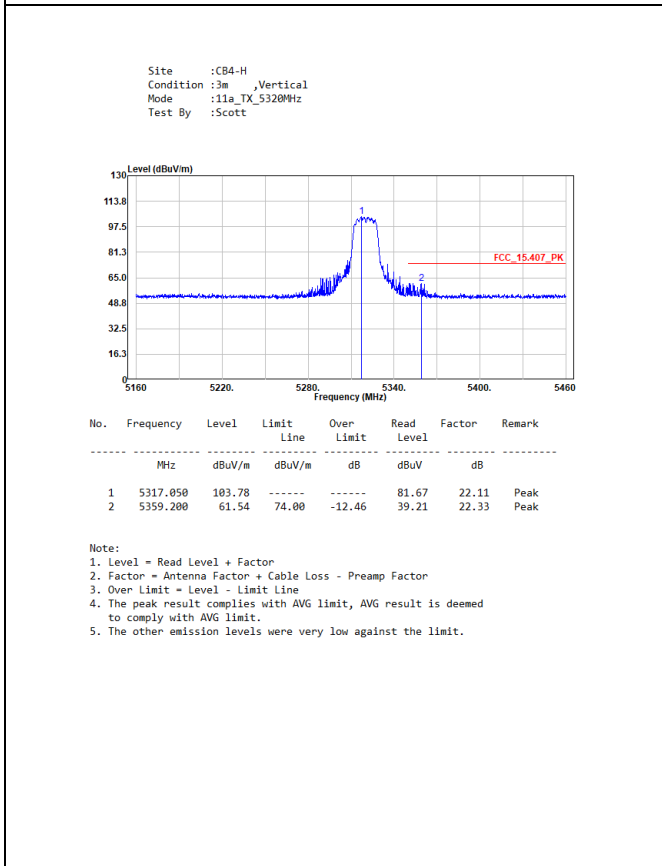
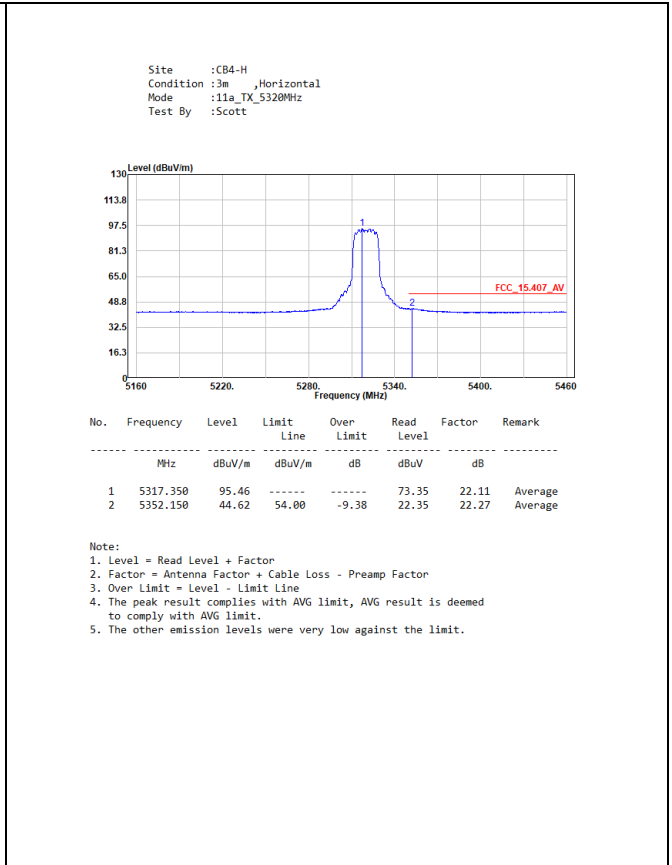
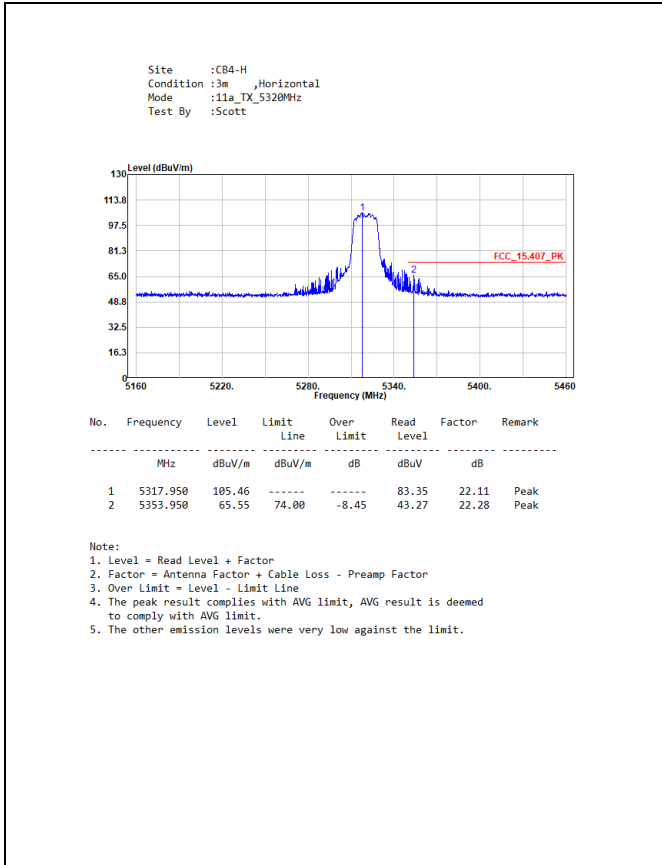
According to FCC CFR Title 47 Part 15 Subpart E.

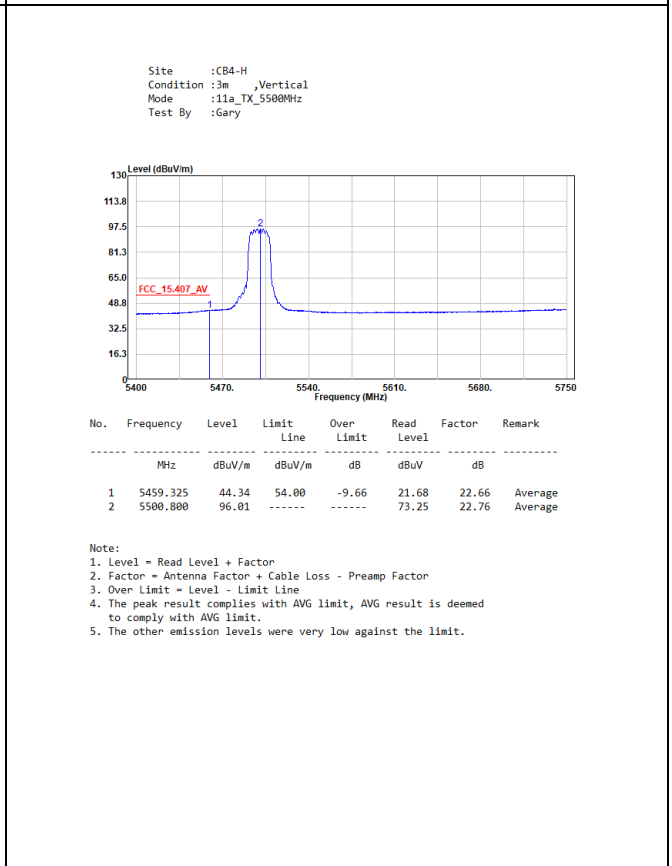
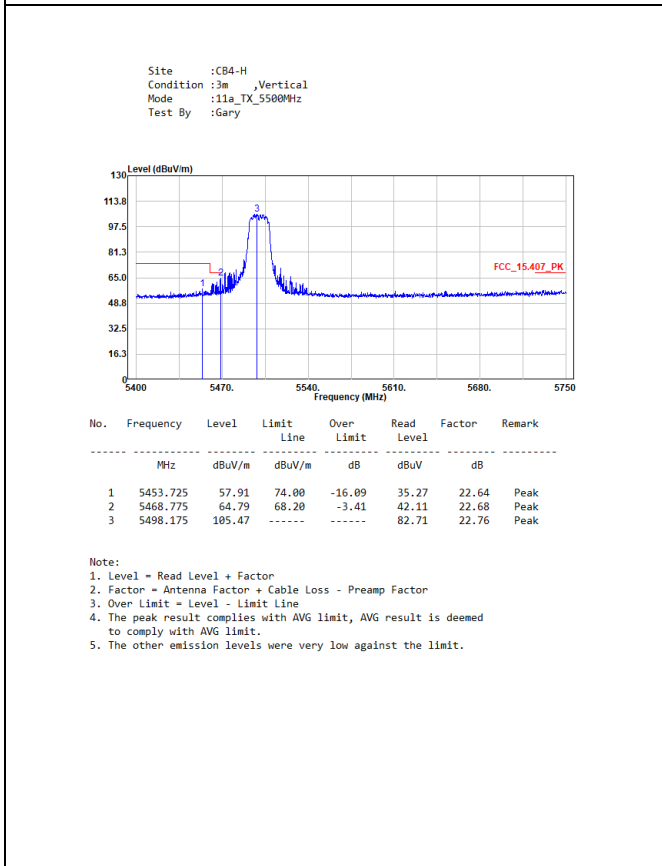
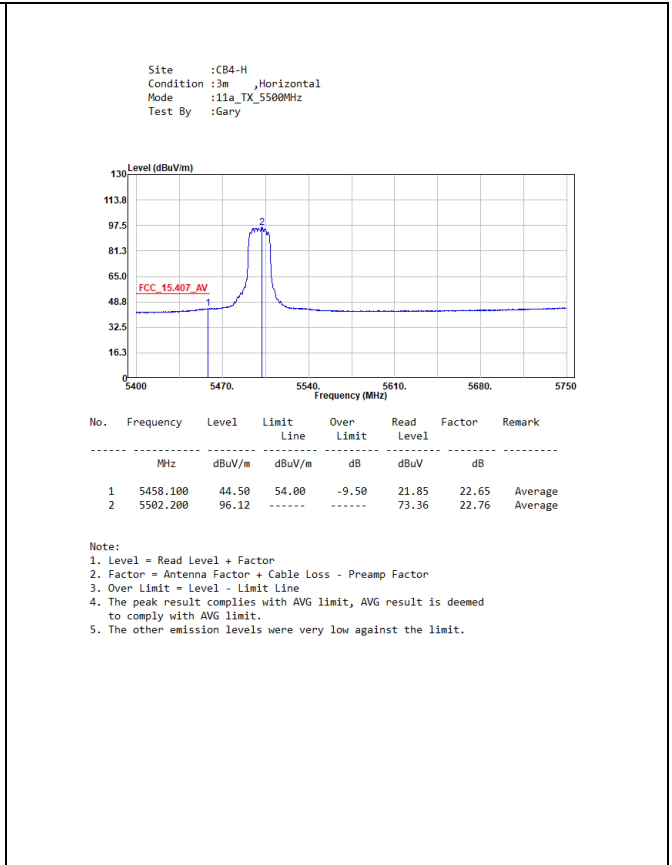
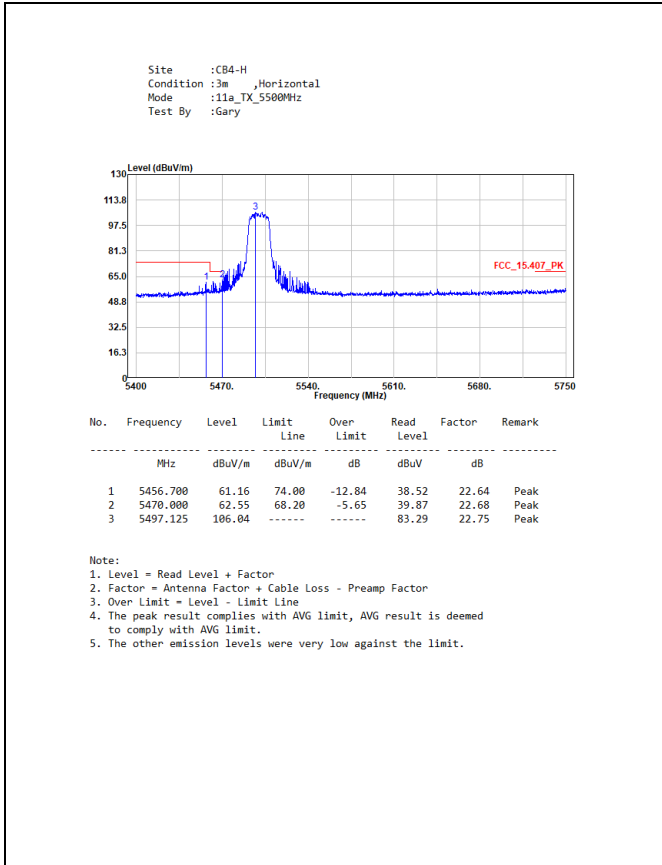
8.5. Test Result of Radiated Emission Band Edge

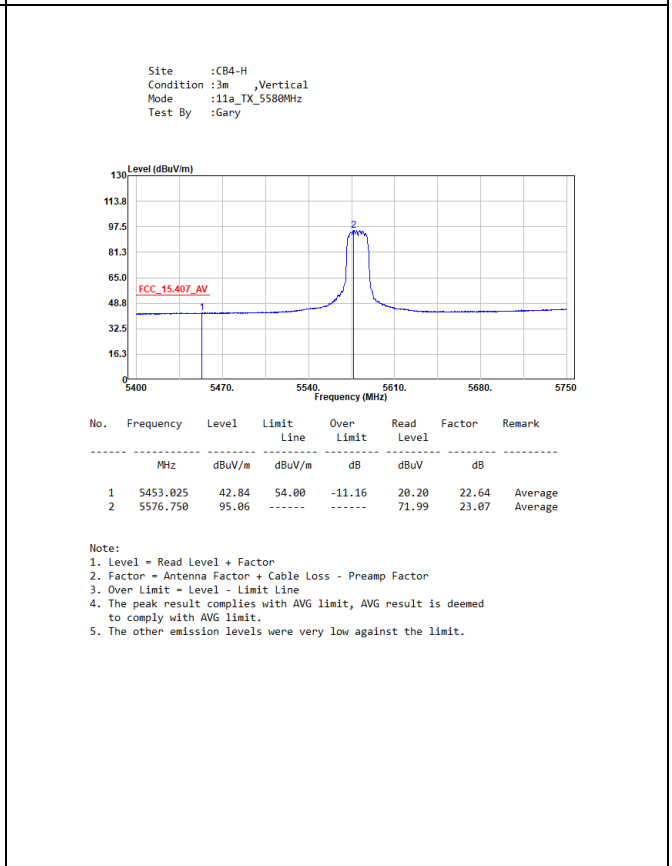
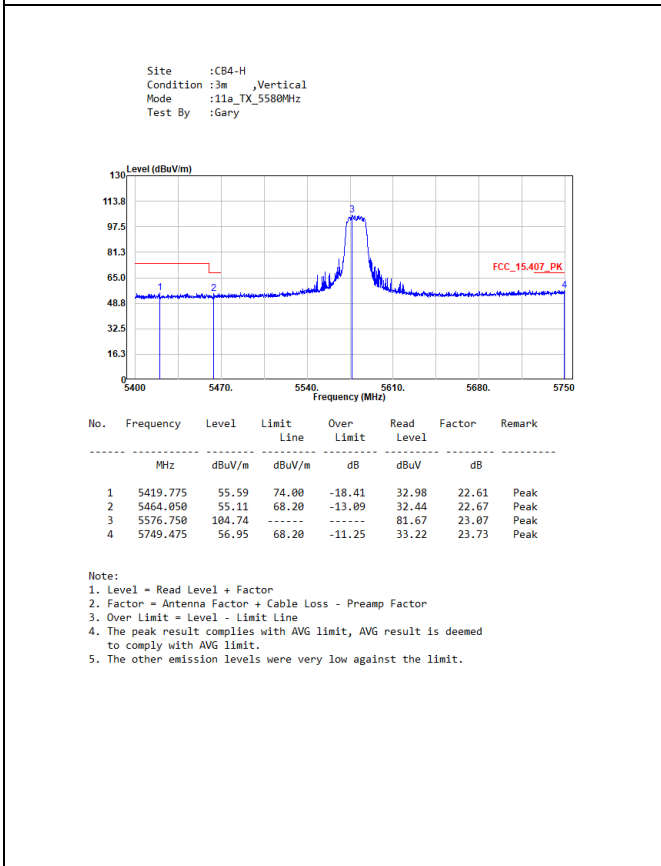
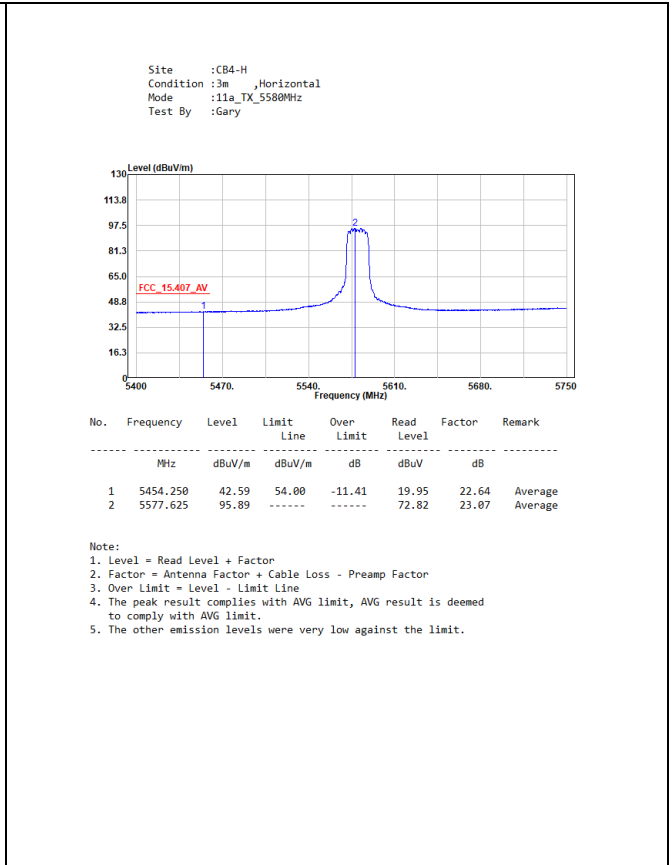
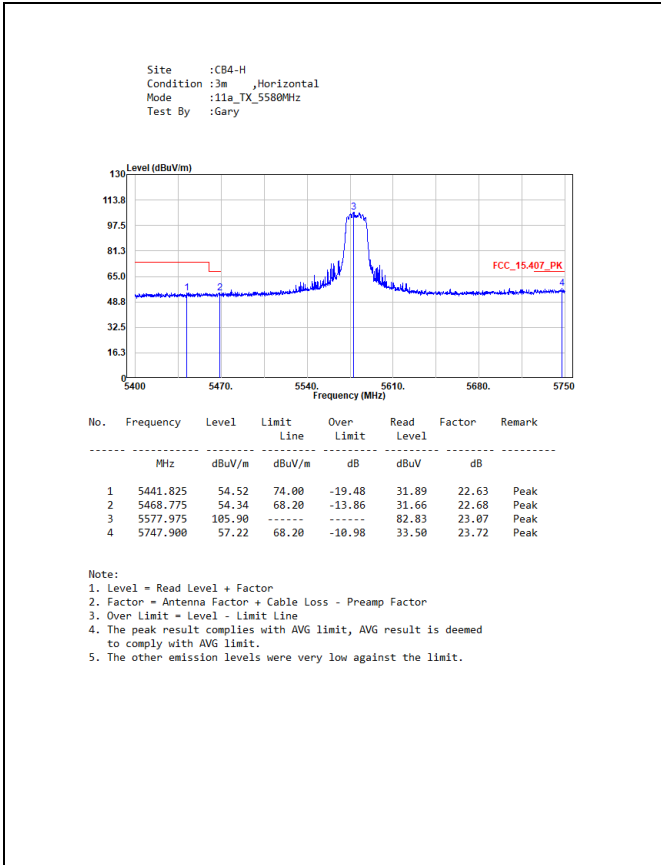
Mode 3 : Transmit_Extension Cover

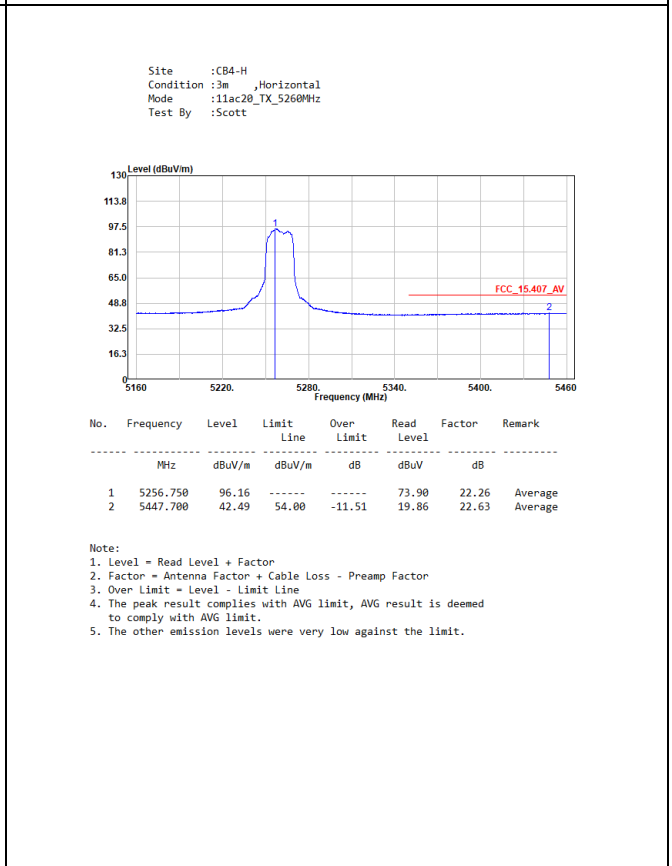
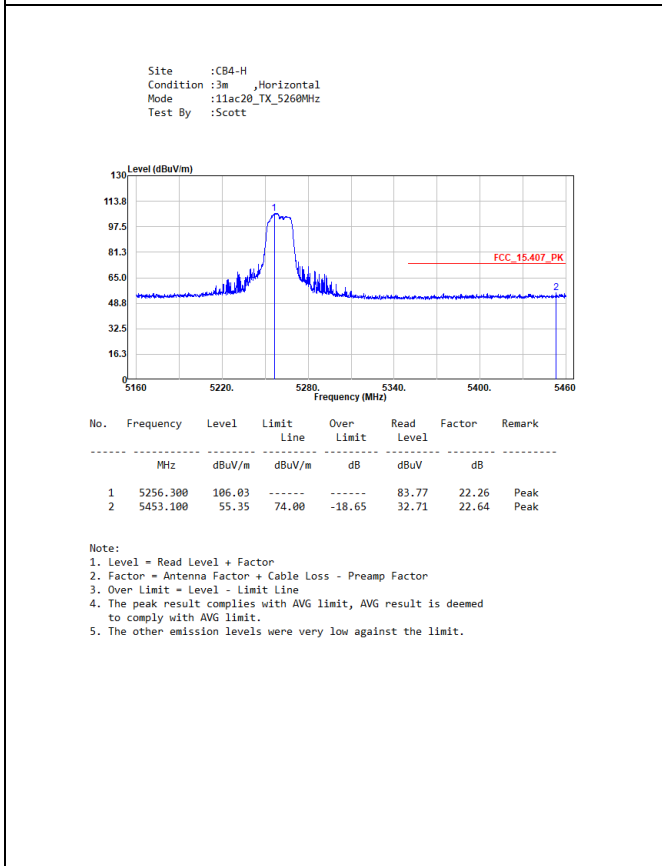
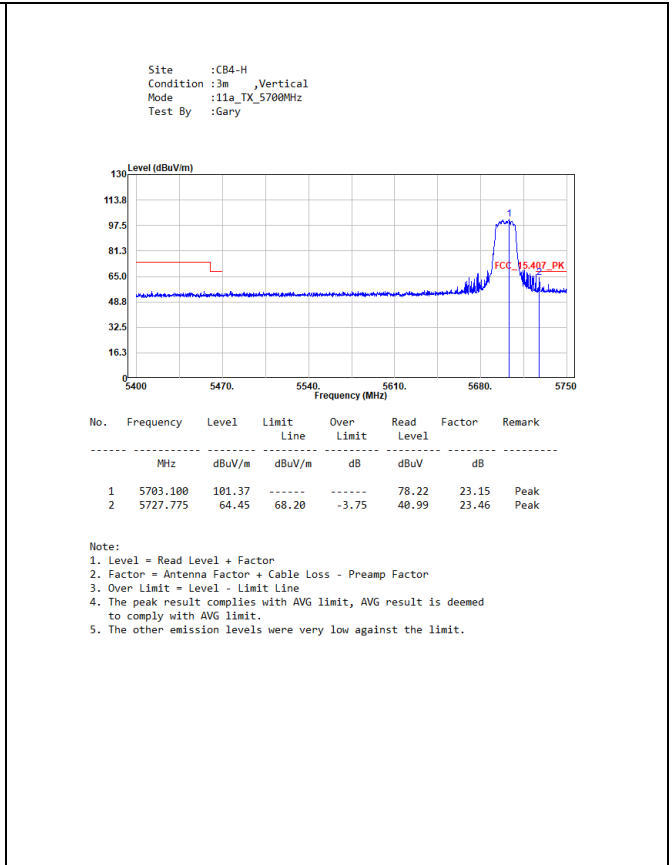
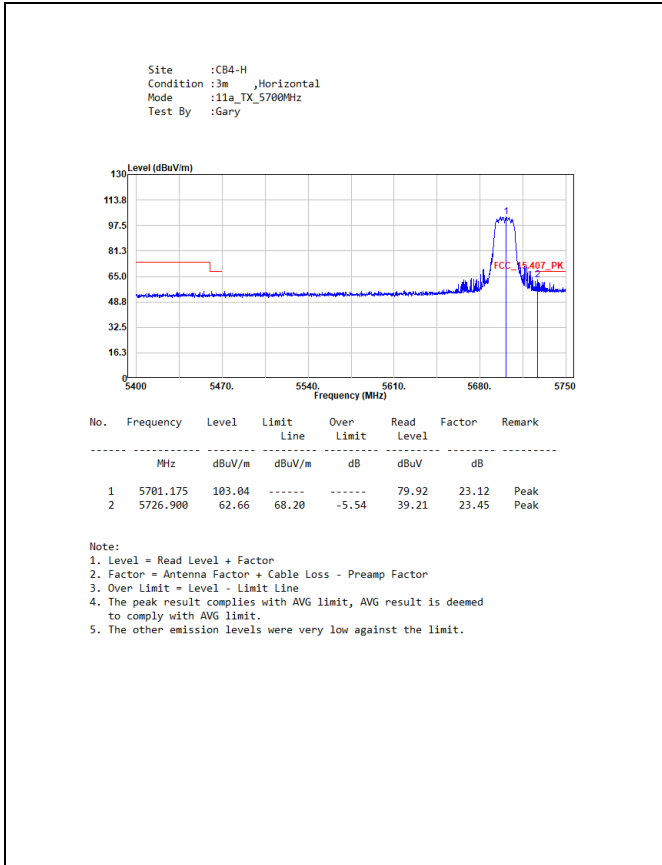
<p>Site :CB4-H Condition :3m ,Horizontal Mode :11a_TX_5260MHz Test By :Scott</p> <table border="1"> <thead> <tr> <th>No.</th> <th>Frequency MHz</th> <th>Level dBuV/m</th> <th>Limit Line dBuV/m</th> <th>Over Limit dB</th> <th>Read Level dBuV</th> <th>Factor dB</th> <th>Remark</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>5257.590</td> <td>105.81</td> <td>-----</td> <td>83.55</td> <td>22.26</td> <td>22.26</td> <td>Peak</td> </tr> <tr> <td>2</td> <td>5444.550</td> <td>55.18</td> <td>74.00</td> <td>-18.82</td> <td>32.55</td> <td>22.63</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	5257.590	105.81	-----	83.55	22.26	22.26	Peak	2	5444.550	55.18	74.00	-18.82	32.55	22.63	Peak	<p>Site :CB4-H Condition :3m ,Horizontal Mode :11a_TX_5260MHz Test By :Scott</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>5257.650</td> <td>95.76</td> <td>-----</td> <td>73.51</td> <td>22.25</td> <td>22.25</td> <td>Average</td> </tr> <tr> <td>2</td> <td>5455.350</td> <td>42.49</td> <td>54.00</td> <td>-11.51</td> <td>19.85</td> <td>22.64</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	5257.650	95.76	-----	73.51	22.25	22.25	Average	2	5455.350	42.49	54.00	-11.51	19.85	22.64	Average
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1	5257.650	95.76	-----	73.51	22.25	22.25	Average																																										
2	5455.350	42.49	54.00	-11.51	19.85	22.64	Average																																										
<p>Site :CB4-H Condition :3m ,Vertical Mode :11a_TX_5260MHz Test By :Scott</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>5256.750</td> <td>103.65</td> <td>-----</td> <td>81.39</td> <td>22.26</td> <td>22.26</td> <td>Peak</td> </tr> <tr> <td>2</td> <td>5396.850</td> <td>55.80</td> <td>74.00</td> <td>-18.20</td> <td>33.23</td> <td>22.57</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	5256.750	103.65	-----	81.39	22.26	22.26	Peak	2	5396.850	55.80	74.00	-18.20	33.23	22.57	Peak	<p>Site :CB4-H Condition :3m ,Vertical Mode :11a_TX_5260MHz Test By :Scott</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>5256.750</td> <td>93.82</td> <td>-----</td> <td>71.56</td> <td>22.26</td> <td>22.26</td> <td>Average</td> </tr> <tr> <td>2</td> <td>5412.450</td> <td>42.59</td> <td>54.00</td> <td>-11.41</td> <td>19.99</td> <td>22.60</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	5256.750	93.82	-----	71.56	22.26	22.26	Average	2	5412.450	42.59	54.00	-11.41	19.99	22.60	Average
No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark																																										
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No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark																																										
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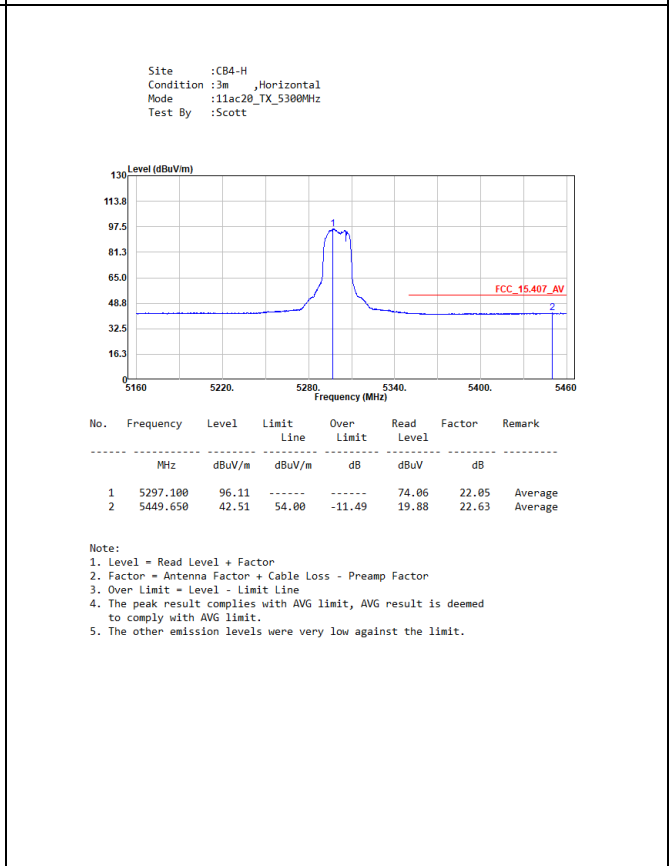
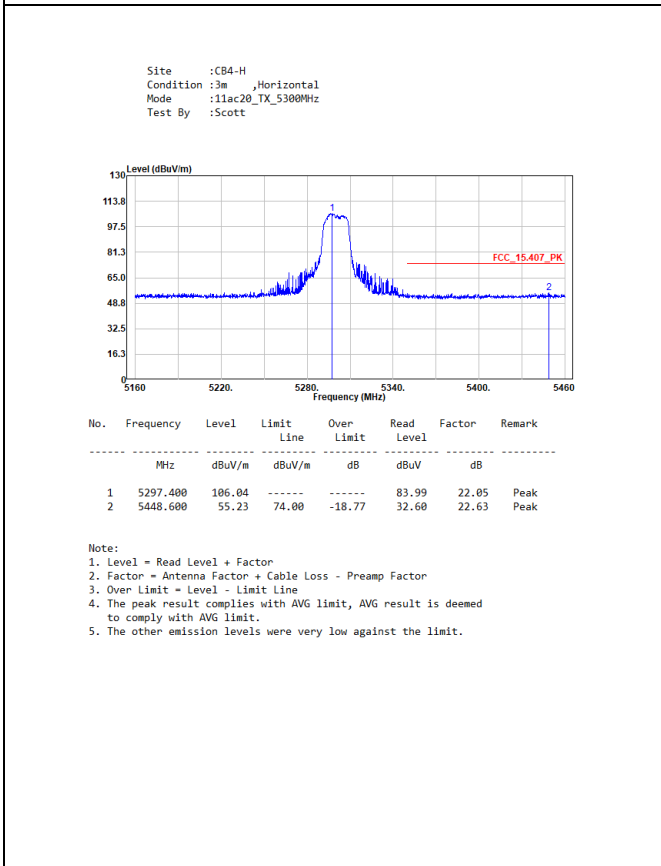
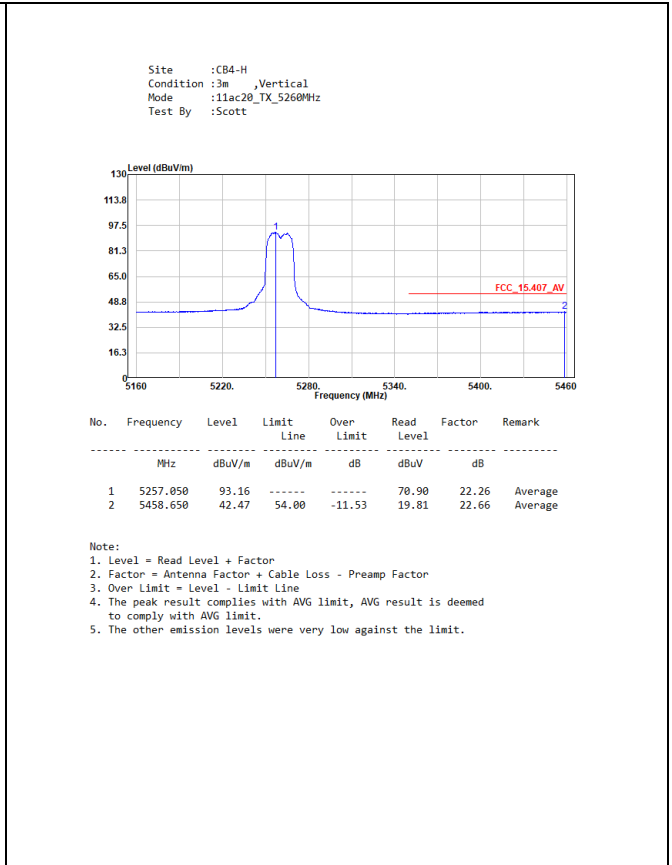
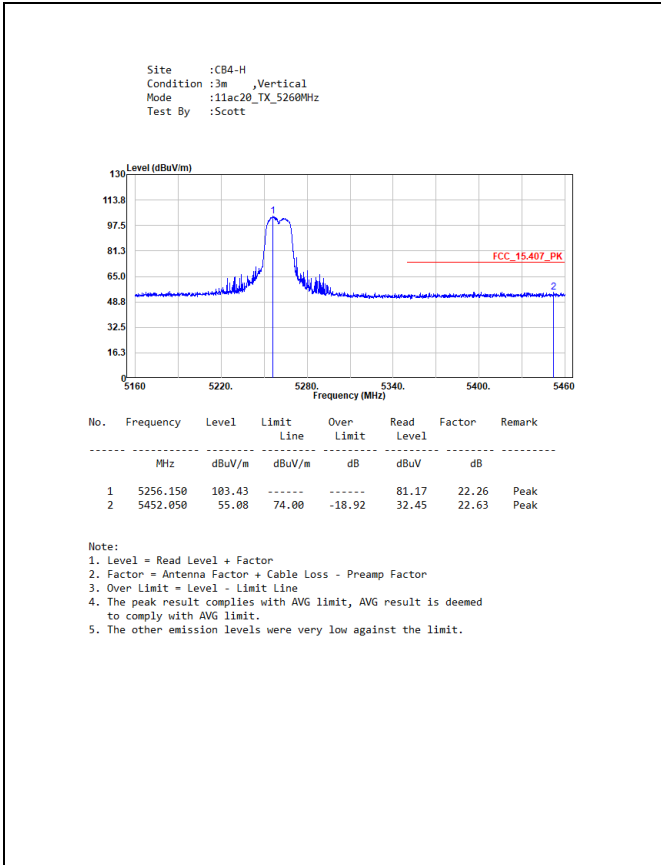


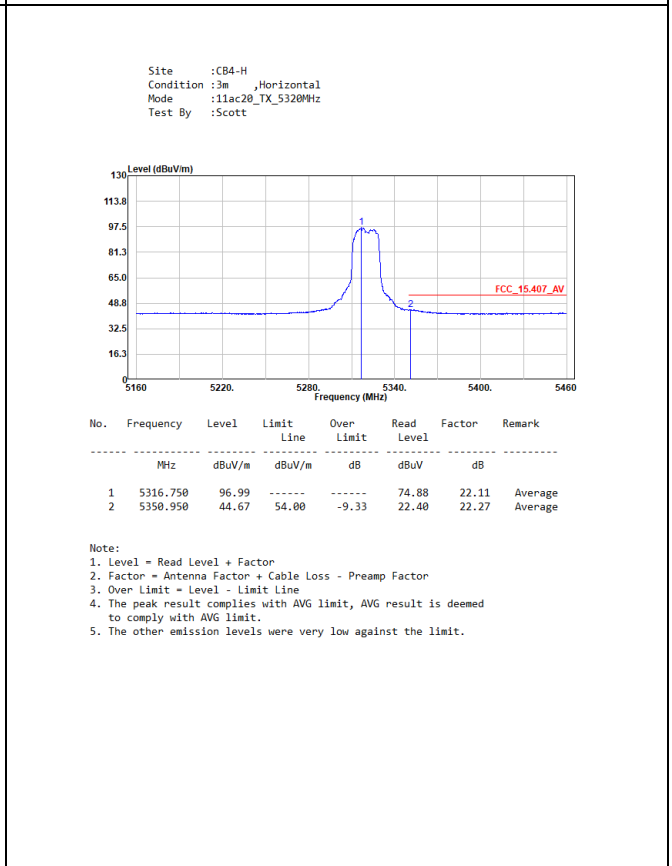
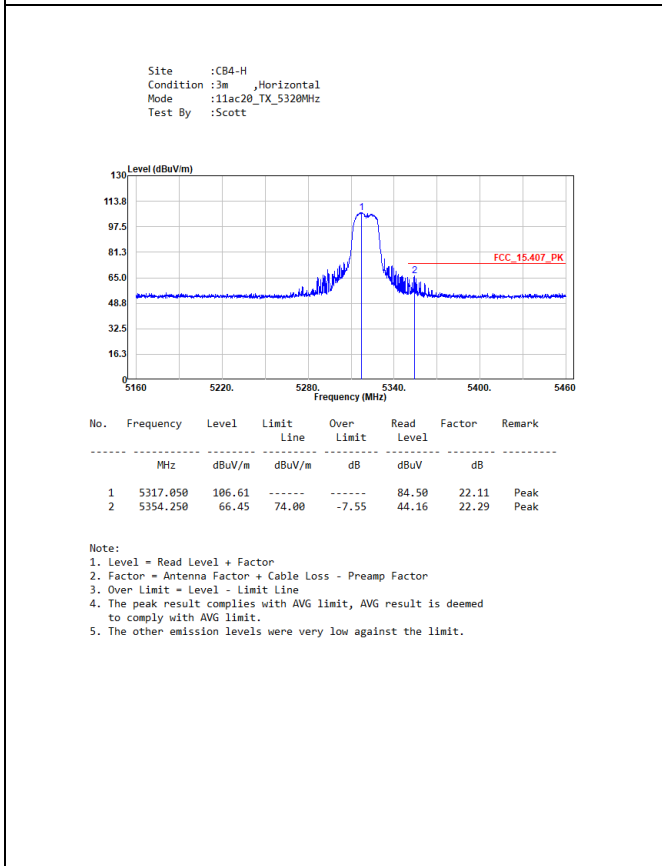
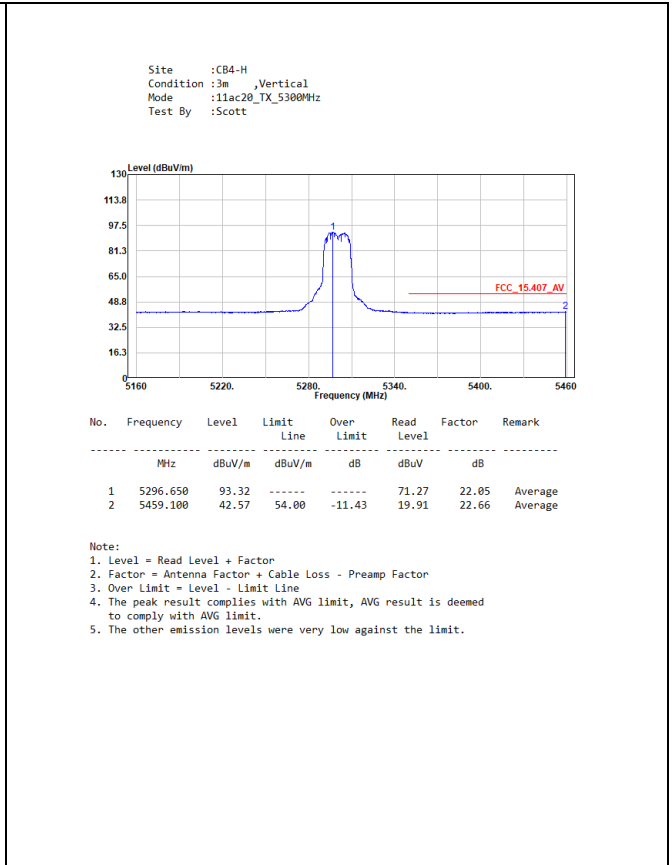
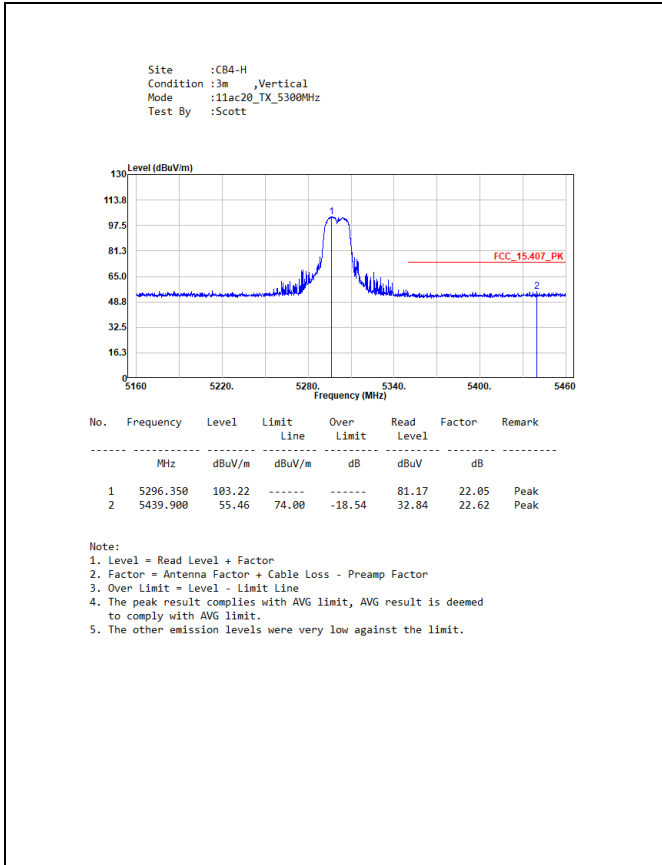




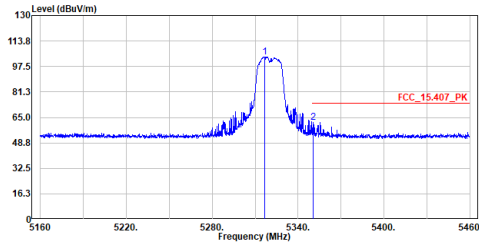








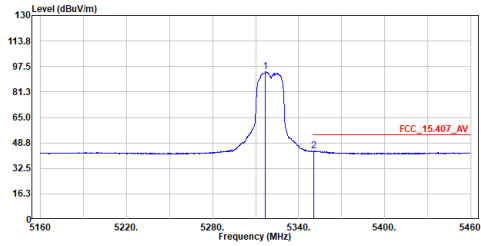
Site :CB4-H
 Condition :3m ,Vertical
 Mode :11ac20_TX_5320MHz
 Test By :Scott



No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	5316.600	103.70	-----	-----	81.59	22.11	Peak
2	5350.800	61.92	74.00	-12.08	39.66	22.26	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.

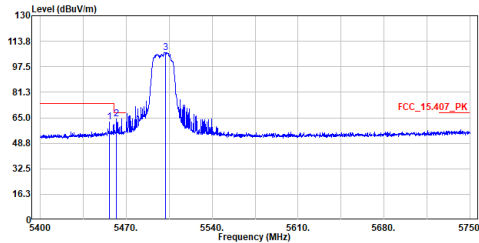
Site :CB4-H
 Condition :3m ,Vertical
 Mode :11ac20_TX_5320MHz
 Test By :Scott



No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	5316.750	94.02	-----	-----	71.91	22.11	Average
2	5350.500	43.57	54.00	-10.43	21.31	22.26	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.

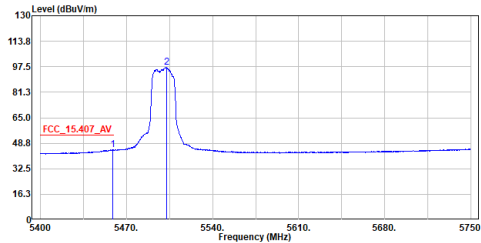
Site :CB4-H
 Condition :3m ,Horizontal
 Mode :11ac20_TX_5500MHz
 Test By :Gary



No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	5456.350	62.51	74.00	-11.49	39.87	22.64	Peak
2	5461.950	64.43	68.20	-3.77	41.77	22.66	Peak
3	5502.200	106.63	-----	-----	83.87	22.76	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.

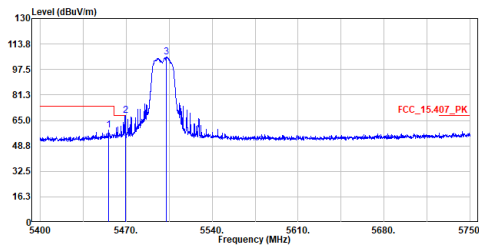
Site :CB4-H
 Condition :3m ,Horizontal
 Mode :11ac20_TX_5500MHz
 Test By :Gary



No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	5458.975	44.61	54.00	-9.39	21.95	22.66	Average
2	5502.725	97.05	-----	-----	74.28	22.77	Average

Note:
 1. Level = Read Level + Factor
 2. Factor = Antenna Factor + Cable Loss - Preamp Factor
 3. Over Limit = Level - Limit Line
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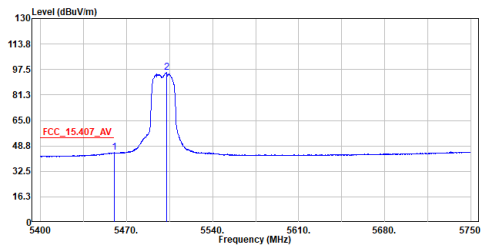
Site :CB4-H
 Condition :3m ,Vertical
 Mode :11ac20_TX_5500MHz
 Test By :Gary



No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	5455.825	58.95	74.00	-15.05	36.31	22.64	Peak
2	5469.300	68.12	68.20	-0.08	45.44	22.68	Peak
3	5502.725	105.50	-----	-----	82.73	22.77	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.

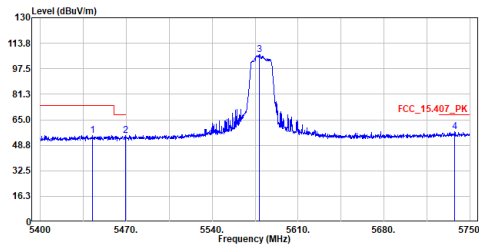
Site :CB4-H
 Condition :3m ,Vertical
 Mode :11ac20_TX_5500MHz
 Test By :Gary



No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	5459.850	44.41	54.00	-9.59	21.75	22.66	Average
2	5502.900	95.56	-----	-----	72.79	22.77	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.

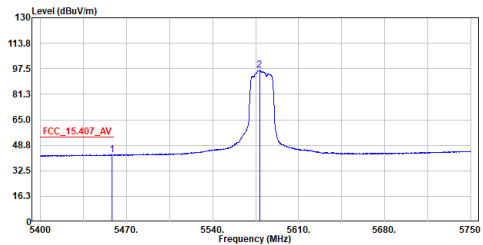
Site :CB4-H
 Condition :3m ,Horizontal
 Mode :11ac20_TX_5580MHz
 Test By :Gary



No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	5442.350	55.02	74.00	-18.98	32.39	22.63	Peak
2	5469.475	54.72	68.20	-13.48	32.04	22.68	Peak
3	5578.500	106.47	-----	-----	83.40	23.07	Peak
4	5737.750	57.38	68.20	-10.82	33.78	23.60	Peak

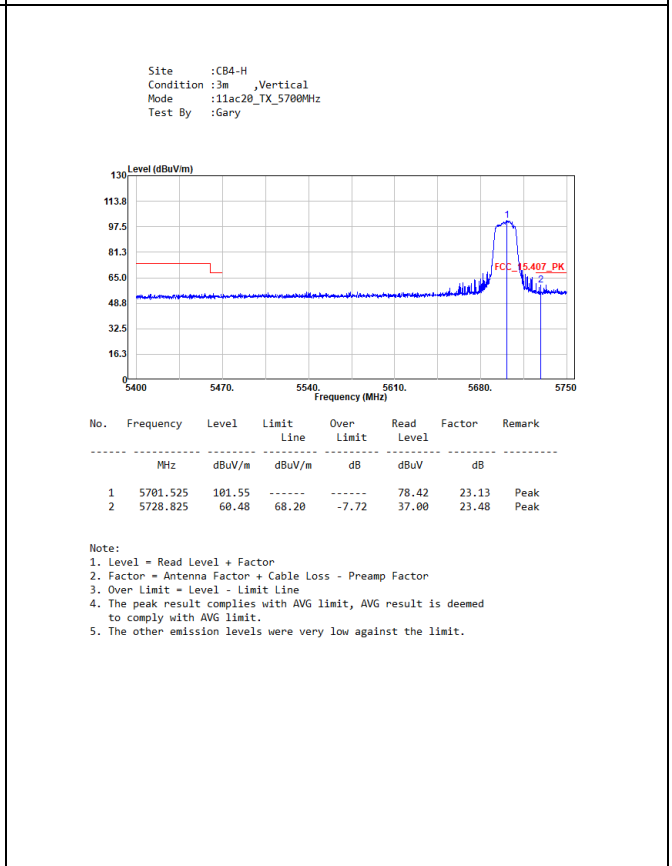
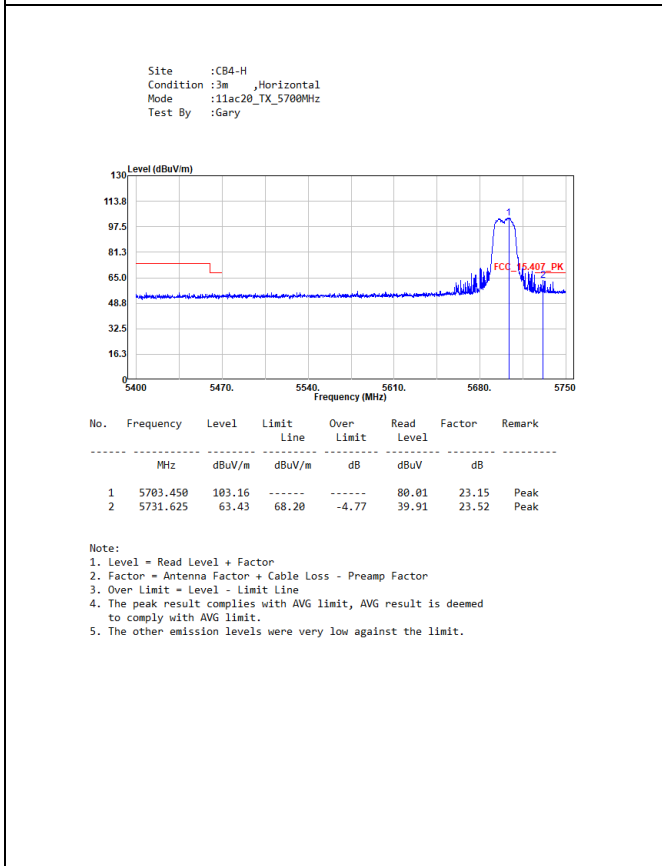
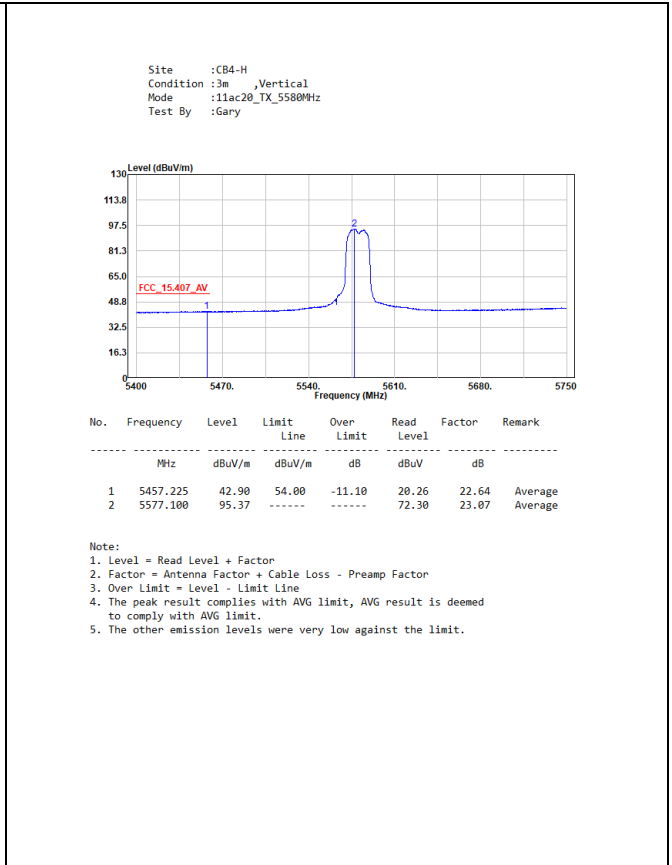
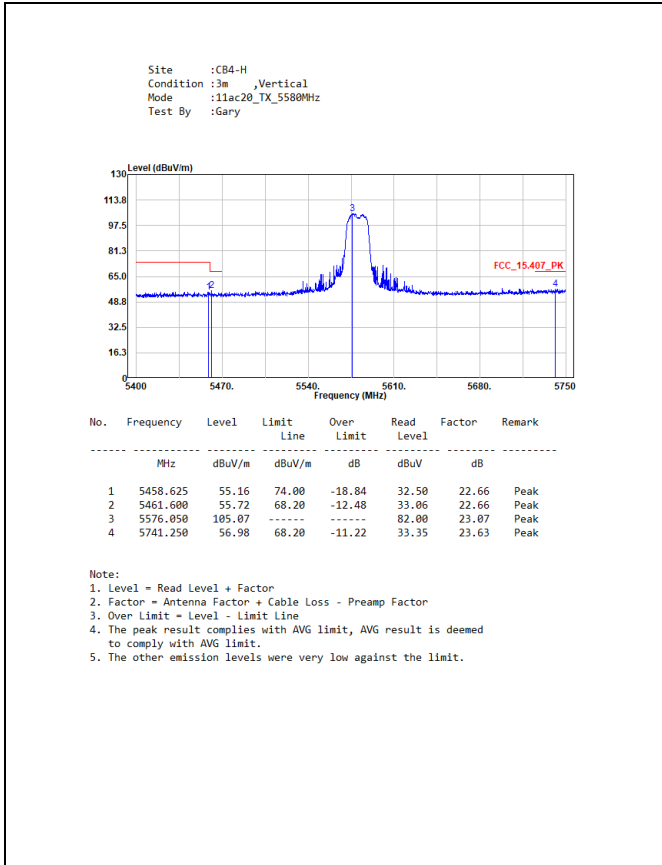
Note:
 1. Level = Read Level + Factor
 2. Factor = Antenna Factor + Cable Loss - Preamp Factor
 3. Over Limit = Level - Limit Line
 4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
 5. The other emission levels were very low against the limit.

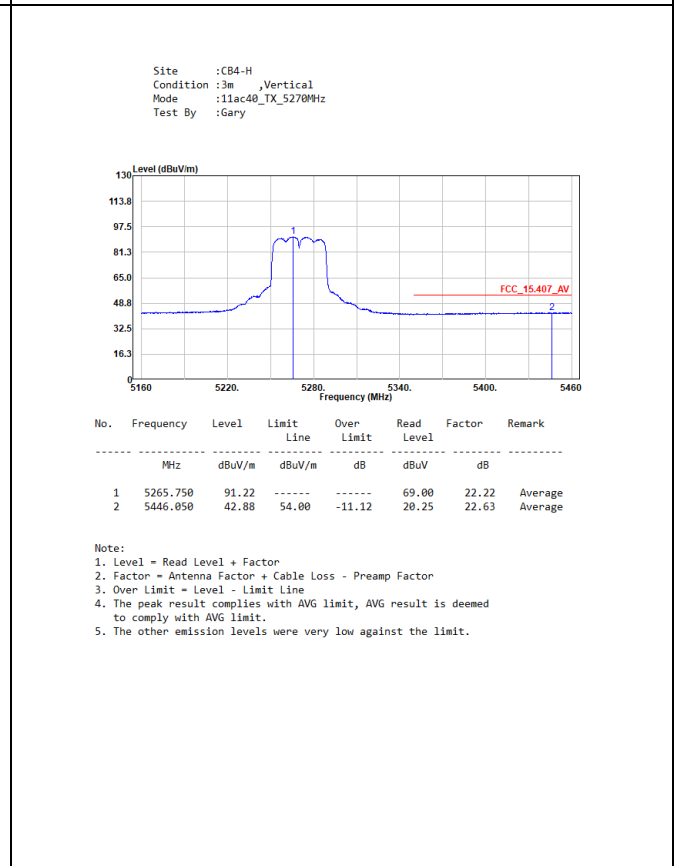
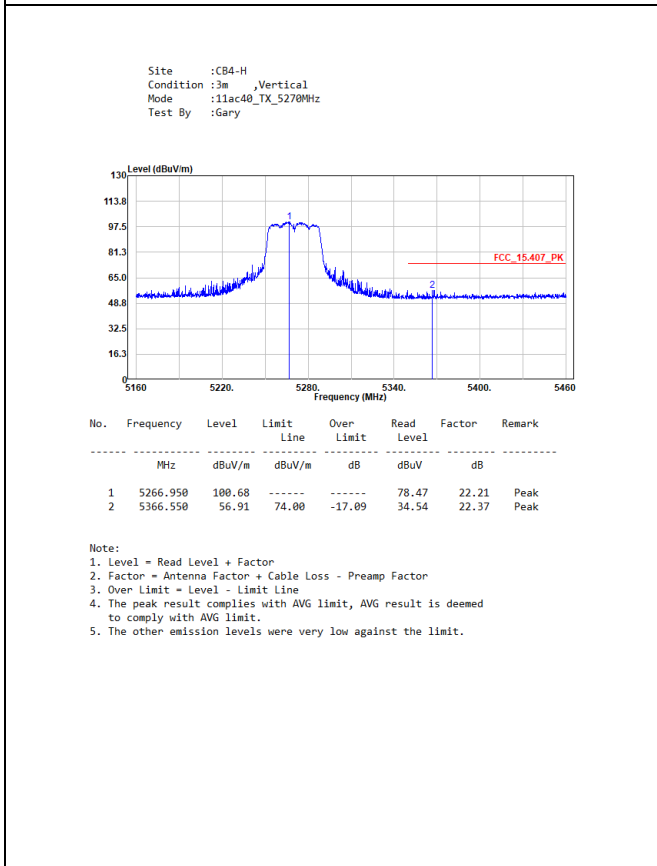
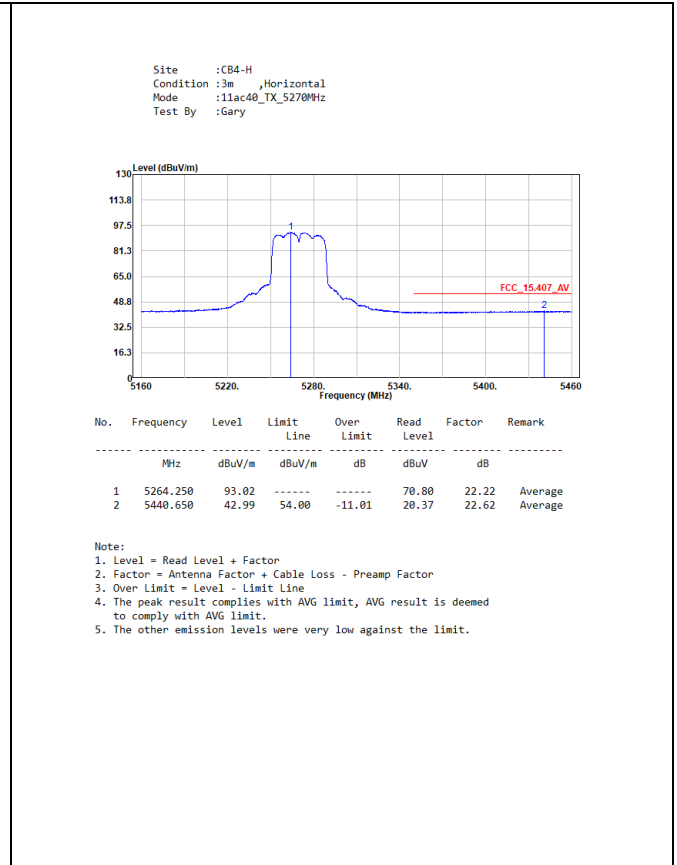
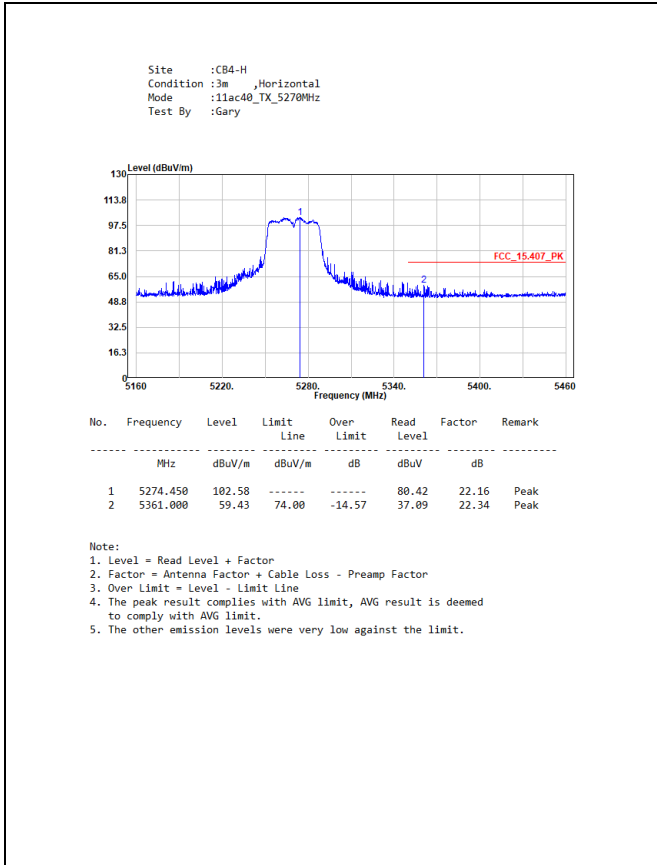
Site :CB4-H
 Condition :3m ,Horizontal
 Mode :11ac20_TX_5580MHz
 Test By :Gary



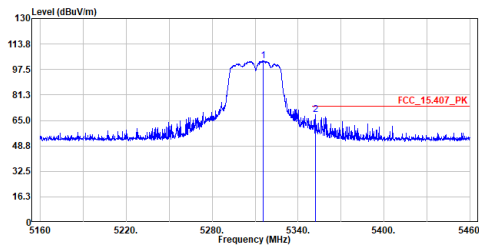
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1	5457.925	42.76	54.00	-11.24	20.11	22.65	Average
2	5578.150	96.51	-----	-----	73.44	23.07	Average

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.





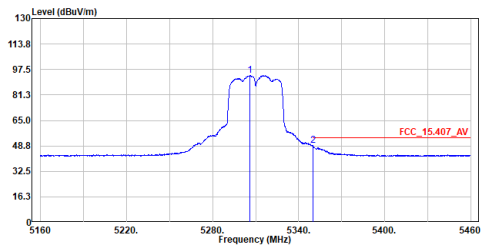
Site :CB4-H
 Condition :3m ,Horizontal
 Mode :11ac40_TX_5310MHz
 Test By :Gary



No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	5315.550	103.13	-----	-----	81.03	22.10	Peak
2	5352.150	68.62	74.00	-5.38	46.35	22.27	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.

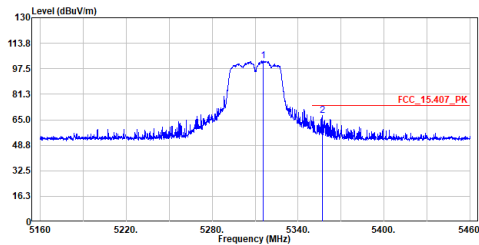
Site :CB4-H
 Condition :3m ,Horizontal
 Mode :11ac40_TX_5310MHz
 Test By :Gary



No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	5305.950	93.61	-----	-----	71.56	22.05	Average
2	5350.000	48.92	54.00	-5.08	26.66	22.26	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.
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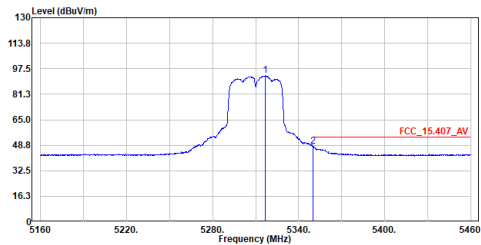
Site :CB4-H
 Condition :3m ,Vertical
 Mode :11ac40_TX_5310MHz
 Test By :Gary



No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	5315.550	102.39	-----	-----	80.29	22.10	Peak
2	5356.950	67.70	74.00	-6.30	45.40	22.30	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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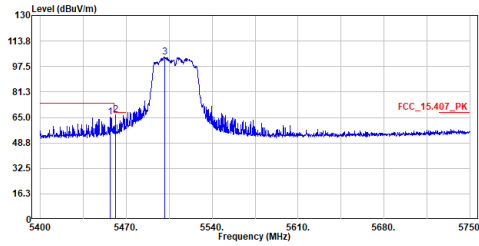
Site :CB4-H
 Condition :3m ,Vertical
 Mode :11ac40_TX_5310MHz
 Test By :Gary



No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	5316.750	93.10	-----	-----	70.99	22.11	Average
2	5350.000	48.28	54.00	-5.72	26.02	22.26	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.

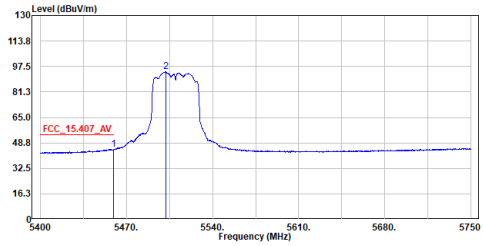
Site :CB4-H
 Condition :3m ,Horizontal
 Mode :11ac40_TX_5510MHz
 Test By :Gary



No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	5456.875	65.40	74.00	-8.60	42.76	22.64	Peak
2	5461.250	66.67	68.20	-1.53	44.01	22.66	Peak
3	5501.325	103.55	-----	-----	80.79	22.76	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.
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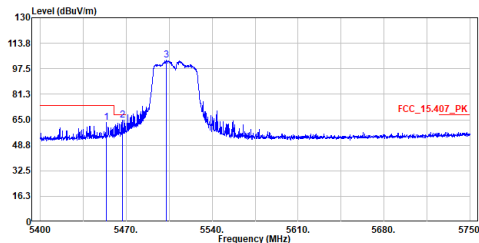
Site :CB4-H
 Condition :3m ,Horizontal
 Mode :11ac40_TX_5510MHz
 Test By :Gary



No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	5459.675	44.61	54.00	-9.39	21.95	22.66	Average
2	5501.850	94.01	-----	-----	71.25	22.76	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.
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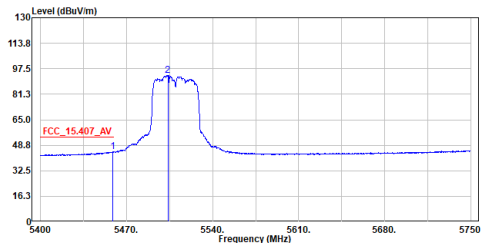
Site :CB4-H
 Condition :3m ,Vertical
 Mode :11ac40_TX_5510MHz
 Test By :Gary



No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	5453.725	63.29	74.00	-10.71	40.65	22.64	Peak
2	5466.850	64.81	68.20	-3.39	42.14	22.67	Peak
3	5502.725	102.90	-----	-----	80.13	22.77	Peak

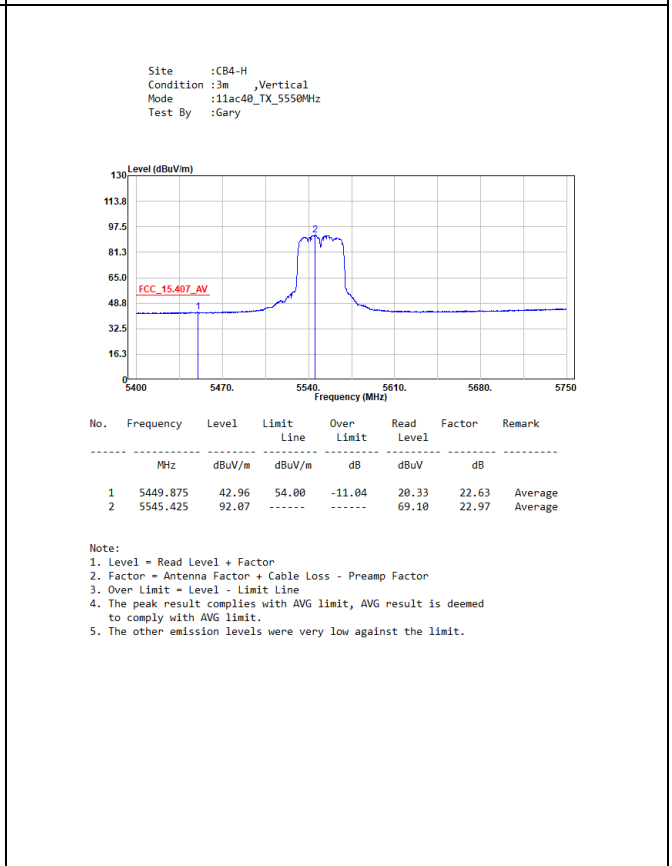
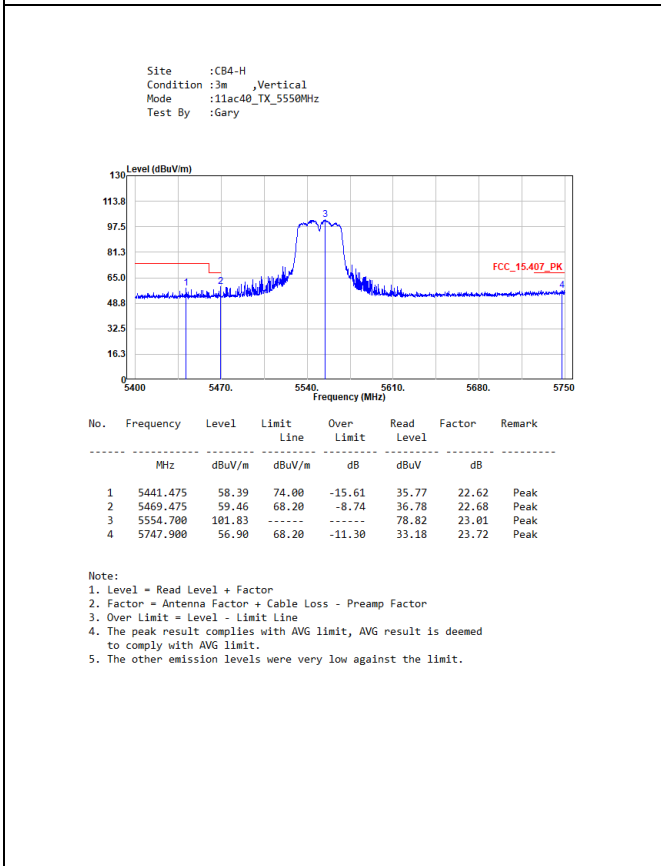
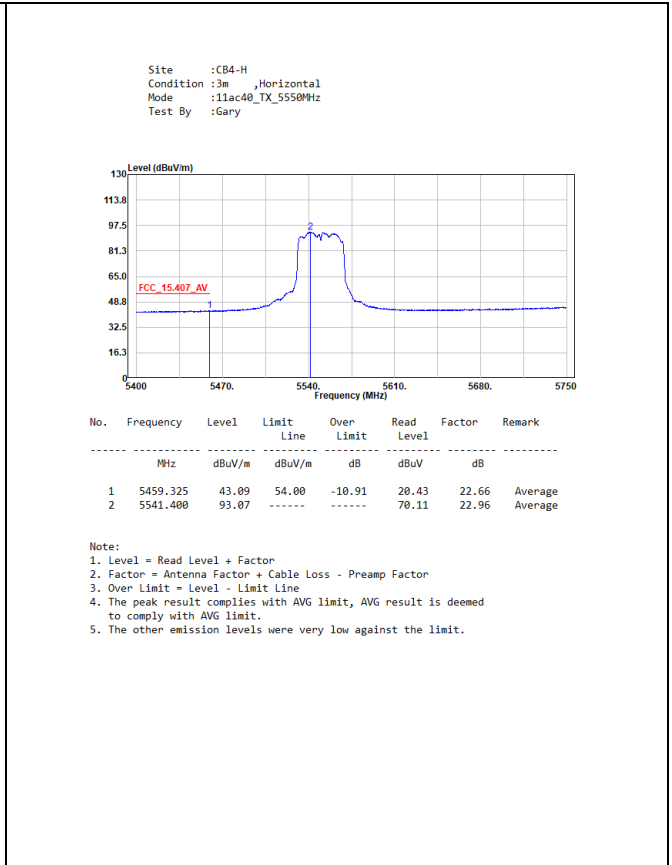
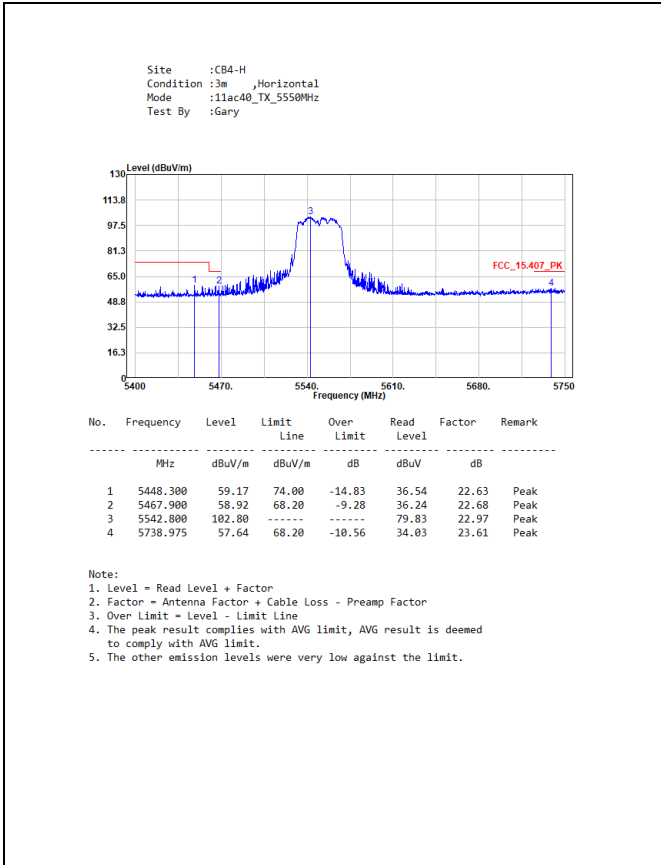
Note:
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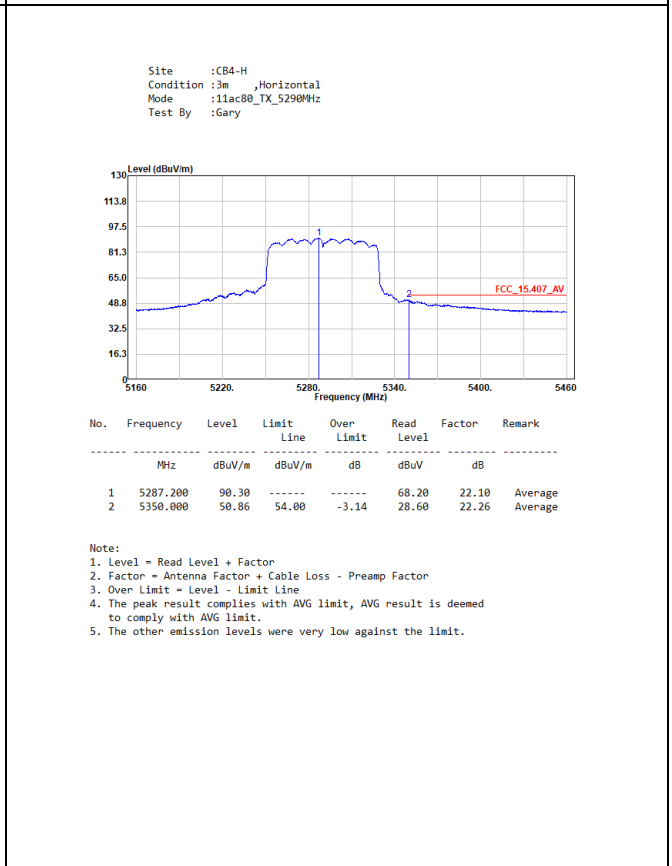
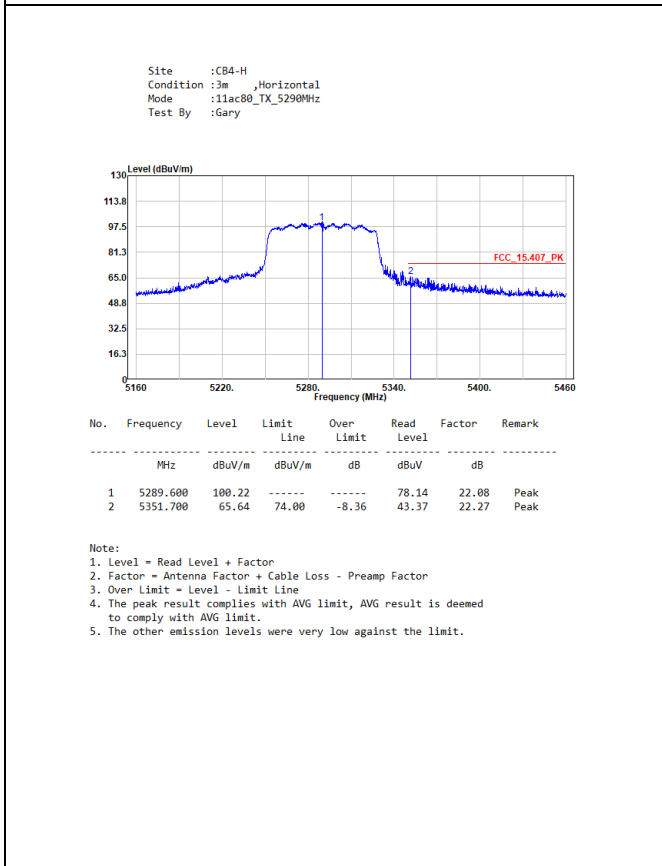
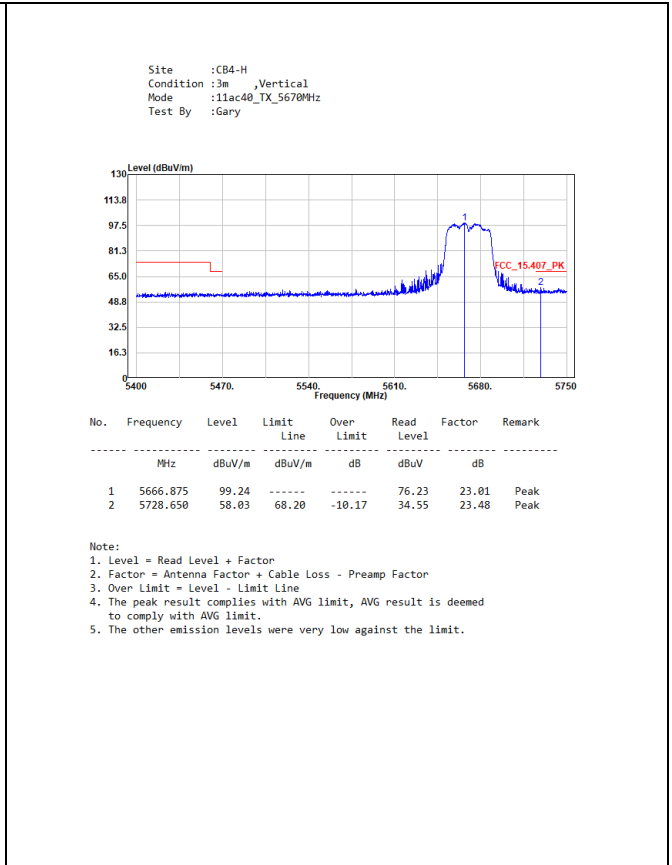
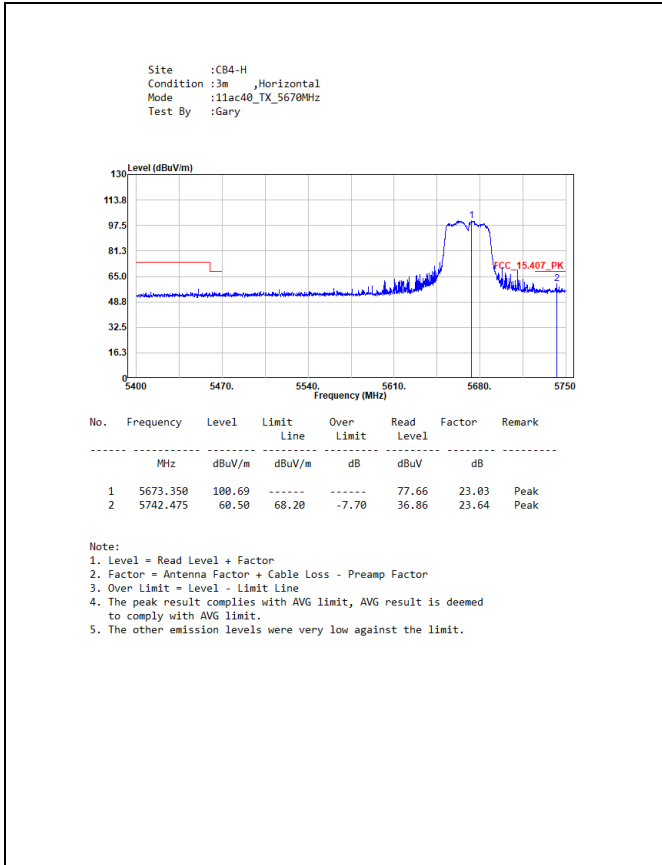
Site :CB4-H
 Condition :3m ,Vertical
 Mode :11ac40_TX_5510MHz
 Test By :Gary



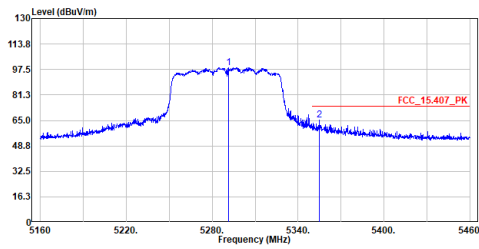
No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	5458.800	44.64	54.00	-9.36	21.98	22.66	Average
2	5503.600	93.23	-----	-----	70.45	22.78	Average

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.





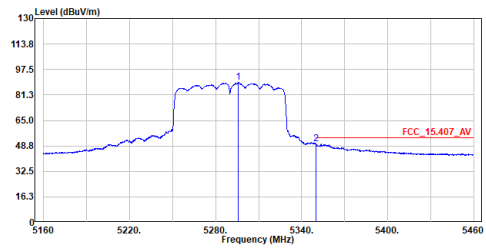
Site :CB4-H
 Condition :3m ,Vertical
 Mode :11ac80_TX_5290MHz
 Test By :Gary



No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	5291.250	98.53	-----	-----	76.46	22.07	Peak
2	5354.850	65.01	74.00	-8.99	42.72	22.29	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.

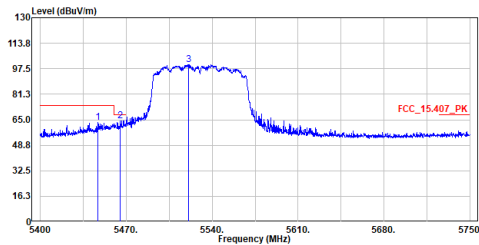
Site :CB4-H
 Condition :3m ,Vertical
 Mode :11ac80_TX_5290MHz
 Test By :Gary



No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	5295.900	89.33	-----	-----	67.28	22.05	Average
2	5350.000	49.87	54.00	-4.13	27.61	22.26	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.

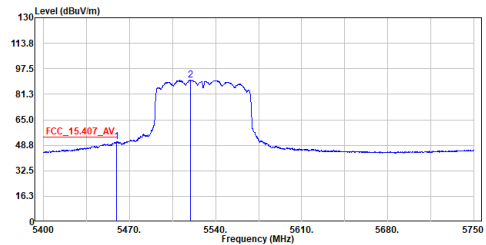
Site :CB4-H
 Condition :3m ,Horizontal
 Mode :11ac80_TX_5530MHz
 Test By :Gary



No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	5447.075	63.53	74.00	-10.47	40.90	22.63	Peak
2	5465.275	64.37	68.20	-3.83	41.70	22.67	Peak
3	5520.925	100.25	-----	-----	77.40	22.85	Peak

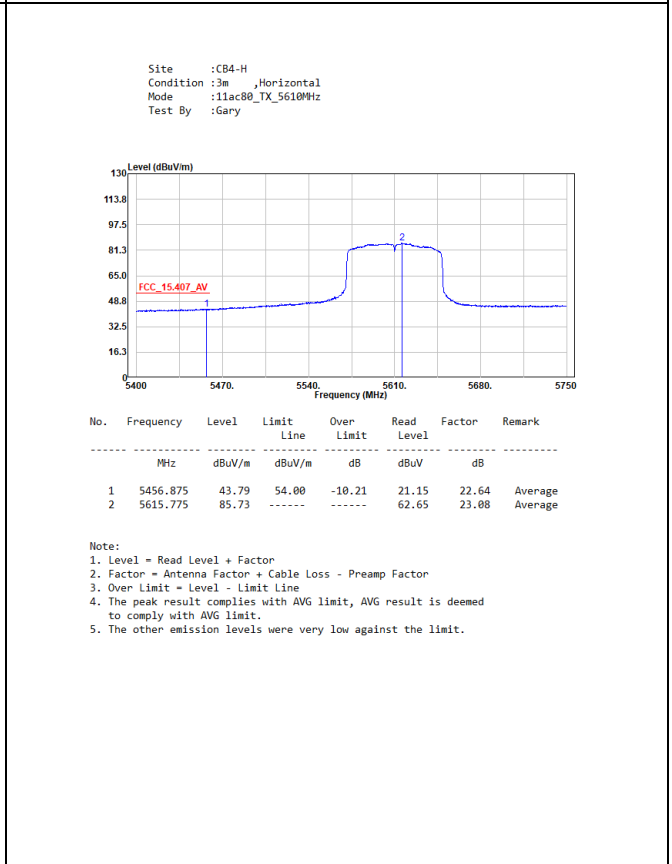
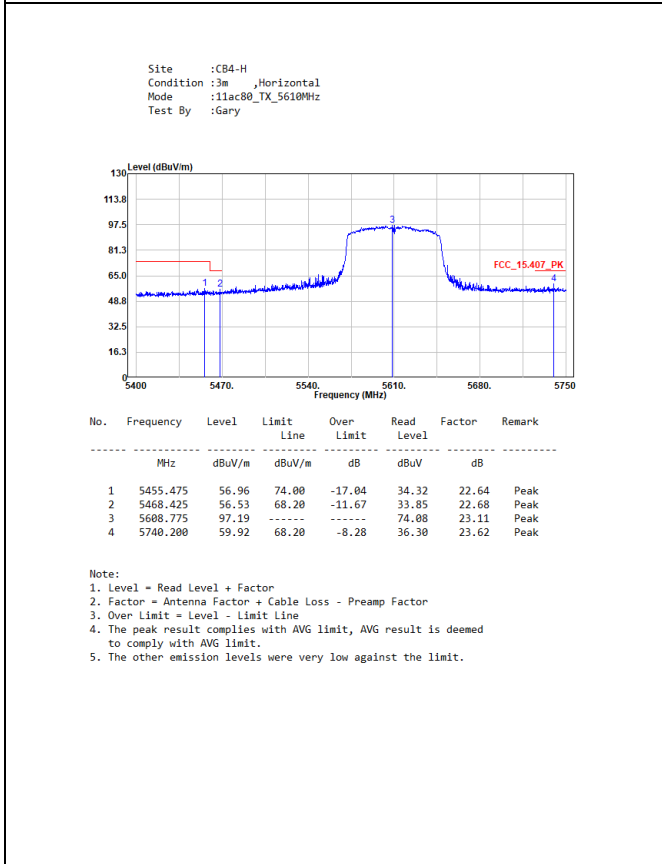
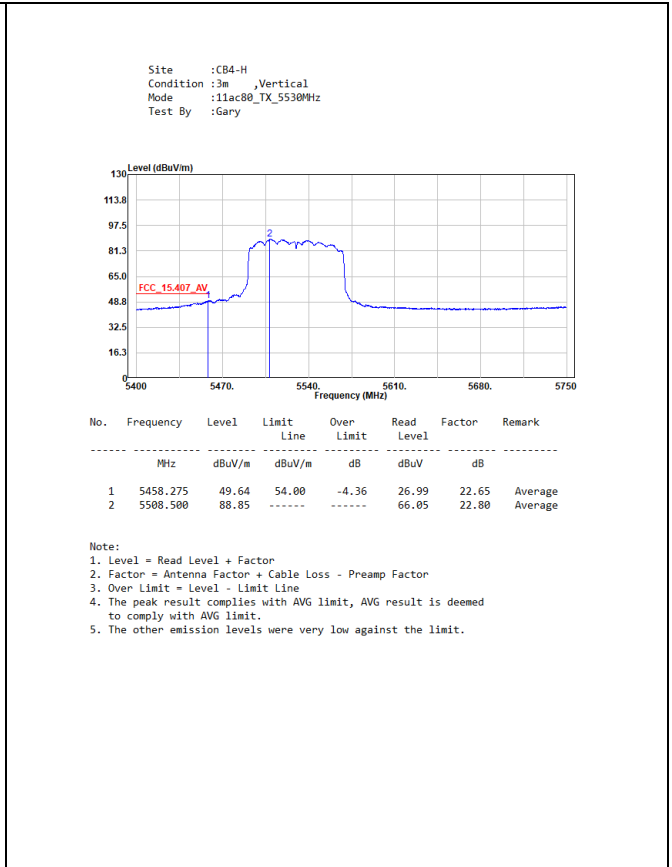
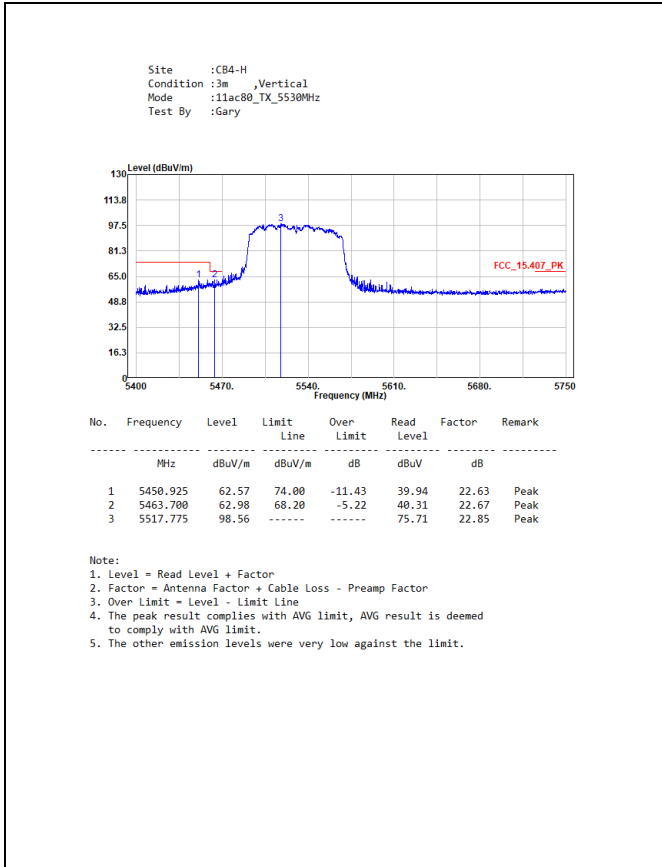
Note:
 1. Level = Read Level + Factor
 2. Factor = Antenna Factor + Cable Loss - Preamp Factor
 3. Over Limit = Level - Limit Line
 4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
 5. The other emission levels were very low against the limit.

Site :CB4-H
 Condition :3m ,Horizontal
 Mode :11ac80_TX_5530MHz
 Test By :Gary

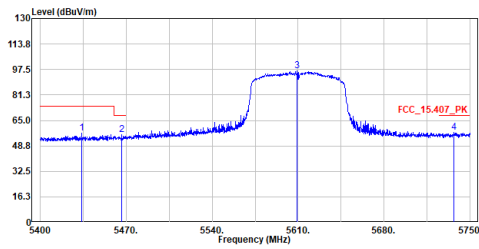


No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	5459.325	50.95	54.00	-3.05	28.29	22.66	Average
2	5519.350	90.08	-----	-----	67.23	22.85	Average

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.



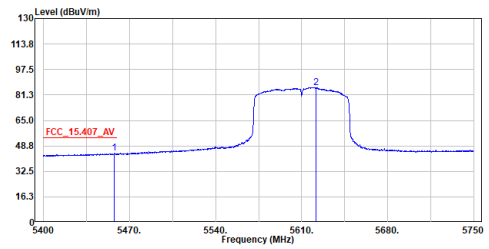
Site :CB4-H
 Condition :3m ,Vertical
 Mode :11ac80_TX_5610MHz
 Test By :Gary



No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	5433.775	56.93	74.00	-17.07	34.31	22.62	Peak
2	5466.325	56.03	68.20	-12.17	33.36	22.67	Peak
3	5609.300	96.78	-----	-----	73.68	23.10	Peak
4	5736.875	57.51	68.20	-10.69	33.94	23.57	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 :CB4-H
 Condition :3m ,Vertical
 Mode :11ac80_TX_5610MHz
 Test By :Gary



No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	5457.400	43.91	54.00	-10.09	21.27	22.64	Average
2	5621.725	86.05	-----	-----	62.99	23.06	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.