Test report No.: 2360237R-RFUSV03S-A

TEST REPORT

Product Name	Peplink Pepwave Wireless Product
Trademark	peplink PEPWAVE
Model and /or type reference	B One 5G B-ONE-5GN-T-PRM B One B-ONE-T-PRM B One Plus B-ONE-PLUS-LTE-US-T-PRM
FCC ID	U8G-P1AX23
Applicant´s name / address	PISMO LABS TECHNOLOGY LIMITED A8, 5/F, HK Spinners Industrial Building, Phase 6, 481 Castle Peak Road, Cheung Sha Wan, Hong Kong
Manufacturer´s name	PISMO LABS TECHNOLOGY LIMITED
Test method requested, standard	FCC CFR Title 47 Part 15 Subpart E ANSI C63.4: 2014, ANSI C63.10: 2013 KDB Publication 789033
Verdict Summary	IN COMPLIANCE
Documented By (Project Specialist / Ida Tung)	Ida Tung
Tested By (Senior Engineer / Bill Lin)	Bill Lin
Approved By (Senior Engineer / Jack Hsu)	Jack Hsu
Date of Receipt	2023/06/07
Date of Issue	2024/03/06
Report Version	V1.0

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Competences and Guarantees

DEKRA is a testing laboratory competent to carry out the tests described in this report.

In order to assure the traceability to other national and international laboratories, DEKRA has a calibration and maintenance program for its measurement equipment.

DEKRA guarantees the reliability of the data presented in this report, which is the result of the measurements and the tests performed to the item under test on the date and under the conditions stated in the report and it is based on the knowledge and technical facilities available at DEKRA at the time of performance of the test.

DEKRA is liable to the client for the maintenance of the confidentiality of all information related to the item under test and the results of the test.

The results presented in this Test Report apply only to the particular item under test established in this document.

General conditions

1. The test results relate only to the samples tested.
2. The test results shown in the test report are traceable to the national/international standard through the calibration report of the equipment and evaluated measurement uncertainty herein.
3. This report must not be used to claim product endorsement by TAF or any agency of the government.
4. The test report shall not be reproduced without the written approval of DEKRA Testing and Certification Co., Ltd.
5. 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.

Revision History

Report No.	Version	Description	Issued Date
2360237R-RFUSV03S-A	V1.0	Initial issue of report.	2024/03/06

1. General Information

1.1. EUT Description

Product Name	Peplink Pepwave Wireless Product
Trademark	peplink PEPWAVE
Model and /or type reference	B One 5G B-ONE-5GN-T-PRM B One B-ONE-T-PRM B One Plus B-ONE-PLUS-LTE-US-T-PRM
EUT Rated Voltage	DC 10~30V
EUT Test Voltage	AC 120V/60Hz to DC 12V (power by adapter)
Frequency Range	802.11a/n/ac/ax-20 MHz: 5180-5240 MHz, 5745-5825 MHz 802.11n/ac/ax-40 MHz: 5190-5230 MHz, 5755-5795 MHz 802.11ac/ax-80 MHz: 5210 MHz, 5775 MHz
Number of Channels	802.11a/n/ac/ax-20 MHz: 9CH, 802.11n/ac/ax-40 MHz: 4CH 802.11ac/ax-80 MHz: 2CH
Data Rate	802.11a: 6-54 Mbps, 802.11n: up to 300 MHz 802.11ac: up to 866.7 MHz, 802.11ax: up to 1201 MHz
Type of Modulation	OFDM, OFDMA, BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM
Channel Control	Auto
Adapter #1	MFR: Zhuzhou Dachuan Electronic Technology Co., Ltd. M/N: DCT36W120300ZZ-D2 Input: AC 100-240V~50/60Hz, 1.0A max. Output: 12.0V⎓3.0A, 36.0W Cable Out: Non-shielded, 1.5m
Adapter #2	MFR: FLYPOWER M/N: PS36LA120K3000UD Input: AC 100-240V~50/60Hz, 1.0A Max. Output: 12.0V⎓3.0A, 36.0W Cable Out: Non-shielded, 1.5m

Antenna List

No.	Manufacturer	Part No.	Antenna Type	Peak Gain
1	INPAQ	RFDPA191300SBLB813	Omni-directional	4.46 dBi for 5150~5250 MHz 4.51 dBi for 5725~5850 MHz
2	INPAQ	RFDPA191300SBLB813	Omni-directional	4.46 dBi for 5150~5250 MHz 4.51 dBi for 5725~5850 MHz

Note: 1. The antenna of EUT is conforming to FCC 15.203.

2. The antenna gain as by the manufacturer provided.

For CDD mode:

For Power Directional gain

5150MHz-5250MHz: Directional gain = 4.46 dBi

5725MHz-5850MHz: Directional gain = 4.51 dBi

(Directional gain = $G_{ANT\ MAX}$ + Array Gain, Array Gain = 0 dB for $N_{ANT} \leq 4$)

For PSD Directional gain

5150MHz-5250MHz: Directional gain = 7.47 dBi

5725MHz-5850MHz: Directional gain = 7.52 dBi

Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20})^2 / N_{ANT}]$ dBi

802.11a/n/ac/ax-20 MHz Center Working Frequency of Each Channel:

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

802.11n/ac/ax-40 MHz Center Working Frequency of Each Channel:

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
38	5190	46	5230	151	5755	159	5795

802.11ac/ax-80 MHz Center Working Frequency of Each Channel:

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
42	5210	155	5775	--	--	--	--

Note:

1. This device is a Peplink Pepwave Wireless Product with built-in WLAN and Bluetooth transceiver, this report for 5 GHz WLAN.
2. Difference of Models

Model	WWAN module	WWAN function	WIFI function	BT function
B One 5G B-ONE-5GN-T-PRM	Quectel RM520N-GL	V	V	V
B One B-ONE-T-PRM	N/A	N/A	V	V
B One Plus B-ONE-PLUS-LTE-US-T-PRM	Quectel EC25-AFXD	V	V	V

   The EUT is available in different model names for marketing purposes. The identification of test sample is B One 5G.
3. Regarding to the operation frequency, the lowest, middle and highest frequency are selected to perform the test.
4. Lowest data rates are tested in each mode. Only worst case is shown in the report. (802.11a is 6Mbps, 802.11ax-20BW/40BW/80BW is MCS0)
5. The CDD mode are presented in the power output test item. For other test items, CDD mode is the worst case for the final test and shown in this report.
6. The spectrum plot against conducted item only shows the worst case.
7. This device does not support partial RU function.
8. 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.
9. These tests were conducted on a sample for the purpose of demonstrating compliance of 802.11a/n/ac/ax transmitter with Part 15 Subpart E for Unlicensed National Information Infrastructure devices.

Test Mode	Mode 1	Transmit (802.11a-CDD) Transmit (802.11n-20BW-CDD) Transmit (802.11n-40BW-CDD) Transmit (802.11ac-20BW-CDD) Transmit (802.11ac-40BW-CDD) Transmit (802.11ac-80BW-CDD) Transmit (802.11ax-20BW-CDD) Transmit (802.11ax-40BW-CDD) Transmit (802.11ax-80BW-CDD)

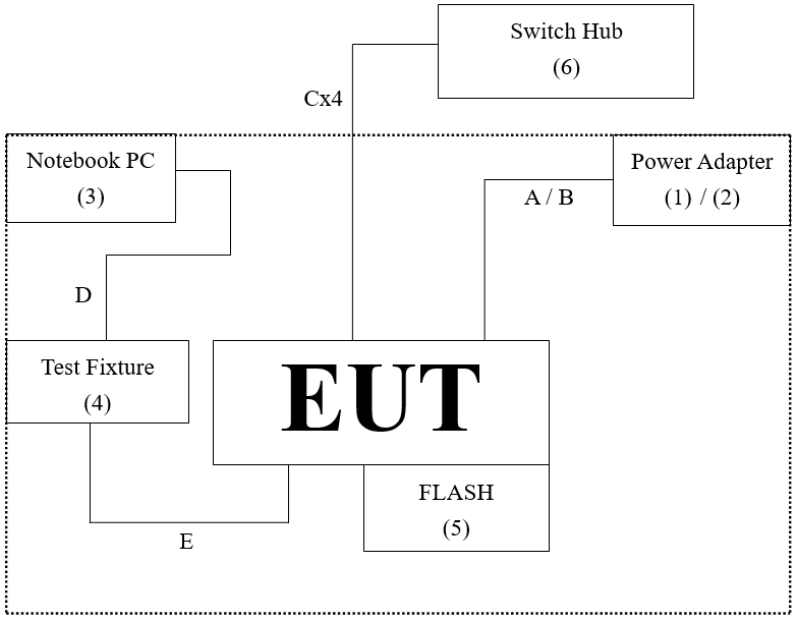
1.2. Tested System Datails

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

Product		Manufacturer	Model No.	Serial No.	Power Cord
1	Power Adapter	Zhuzhou Dachuan Electronic Technology Co., Ltd.	DCT36W120300ZZ-D2	N/A	N/A
2	Power Adapter	FLYPOWER	PS36LA120K3000UD	N/A	N/A
3	Notebook PC	DELL	Latitude 5501	8JHGL13	N/A
4	Test Fixture	Askey	BBS tool Rev03	N/A	N/A
5	FLASH	Transcend	JetFlash 790C/64GB	N/A	N/A
6	Switch Hub	ZYXEL	GS-108B v3	N/A	N/A

Cable Type		Cable Description
A	Power Cable	Non-shielded, 1.5m
B	Power Cable	Non-shielded, 1.5m
C	LAN Cable	Non-shielded, 3m, four PCS.
D	USB TO MicroB Cable	Shielded, 1m
E	Signal Cable	Non-shielded, 0.1m

1.3. Configuration of tested System



1.4. EUT Exercise Software

1	Setup the EUT as shown in Section 1.3.
2	Execute software “Qualcomm Sequence Profiling Resource Version 5.0-00197” on the Notebook PC.
3	Configure the test mode, the test channel, and the data rate.
4	Verify that the EUT works properly.

1.5. Test Facility

Ambient conditions in the laboratory:

Performed Item	Items	Required	Actual
Conducted Emission	Temperature (°C)	10~40 °C	27.3 °C
	Humidity (%RH)	10~90 %	48.5 %
Radiated Emission	Temperature (°C)	10~40 °C	21.4 °C
	Humidity (%RH)	10~90 %	62.6 %
Conductive	Temperature (°C)	10~40 °C	27.0 °C
	Humidity (%RH)	10~90 %	52.2 %

USA	FCC Registration Number: TW0033
Canada	CAB Identifier Number: TW3023 / Company Number: 26930

Site Description	Accredited by TAF
	Accredited Number: 3023

Test Laboratory	DEKRA Testing and Certification Co., Ltd.
	Linkou Laboratory
Address	No.5-22, Ruishukeng Linkou District, New Taipei City, 24451, Taiwan, R.O.C.
Performed Location	No. 26, Huaya 1st Rd., Guishan Dist.,Taoyuan City 333411, Taiwan, R.O.C.
Phone Number	+886-3-275-7255
Fax Number	+886-3-327-8031

1.6. List of Test Equipment

For Conduction Measurements / HY-SR01

	Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Due Date
V	EMI Test Receiver	R&S	ESR7	101601	2023/06/20	2024/06/19
V	Two-Line V-Network	R&S	ENV216	101306	2023/03/16	2024/03/15
V	Two-Line V-Network	R&S	ENV216	102202	2022/08/08	2023/08/07
V	Coaxial Cable	SUHNER	RG400_BNC	RF001	2023/01/10	2024/01/09

Note:
1. All equipments are calibrated every one year.
2. The test instruments marked with "V" are used to measure the final test results.
3. Test Software Version: e3 230303 dekra V9.

For Conducted Measurements / HY-SR02

	Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Due Date
V	Spectrum Analyzer	R&S	FSV30	103466	2022/12/22	2023/12/21
V	Peak Power Analyzer	KEYSIGHT	8990B	MY51000539	2023/05/15	2024/05/14
V	Power Sensor	KEYSIGHT	N1923A	MY59240002	2023/05/18	2024/05/17
V	Power Sensor	KEYSIGHT	N1923A	MY59240003	2023/05/18	2024/05/17

Note:
1. All equipments are calibrated every one year.
2. The test instruments marked with "V" are used to measure the final test results.
3. Test Software Version: RF Conducted Test Tools R3 V3.0.0.14.

For Radiated Measurements /HY-CB01

	Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Due Date
V	Loop Antenna	AMETEK	HLA6121	56736	2023/05/23	2024/05/24
V	Bi-Log Antenna	SCHWARZBECK	VULB9168	9168-0675	2021/08/11	2023/08/10
V	Horn Antenna	RF SPIN	DRH18-E	210802A18ES	2023/03/23	2024/03/22
V	Horn Antenna	Com-Power	AH-840	101101	2021/11/30	2023/11/29
V	Pre-Asmplifier	SGH	0301	20211007-7	2023/01/10	2024/01/09
V	Pre-Amplifier	EMCI	EMC051845SE	980632	2023/01/10	2024/01/09
V	Pre-Amplifier	EMCI	EMC05820SE	980362	2023/01/10	2024/01/09
V	Pre-Amplifier	EMCI	EMC184045SE	980369	2023/01/10	2024/01/09
	Coaxial Cable	EMCI	EMC102-KM-KM-600	1160314		
	Coaxial Cable	EMCI	EMC102-KM-KM-7000	170242		
	Filter	MICRO TRONICS	BRM50702	G251	2023/01/05	2024/01/04
V	Filter	MICRO TRONICS	BRM50716	067	2023/01/05	2024/01/04
V	EMI Test Receiver	R&S	ESR3	102792	2022/12/29	2023/12/28
V	Spectrum Analyzer	R&S	FSV3044	101115	2023/01/06	2024/01/05
V	Coaxial Cable	SUHNER	SUCOFLEX 106	25450/6	2023/01/10	2024/01/09
	Coaxial Cable	SGH	HA800	GD20110222-8		
	Coaxial Cable	SGH	SGH18	2021003-8		
	Coaxial Cable	EMCI	EMC106	151113		

Note:
1. Bi-Log Antenna and Horn Antenna (AH-840) is calibrated every two years, the other equipments are calibrated every one year.
2. The test instruments marked with "V" are used to measure the final test results.
3. Test Software Version: e3 230303 dekra V9.

1.7. Uncertainty

Uncertainties have been calculated according to the DEKRA internal document.

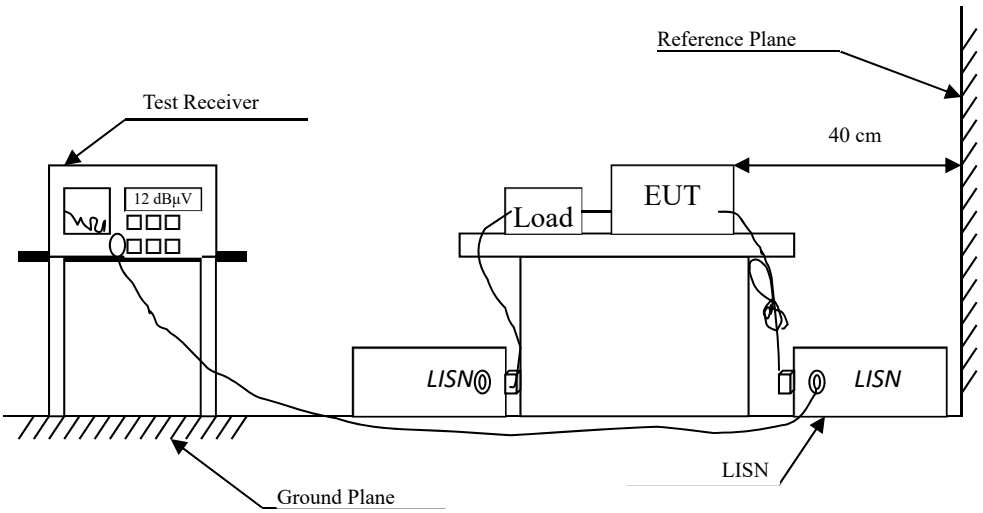
The reported expanded uncertainties are based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95 %.

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.

Test item	**Uncertainty**
Conducted Emission	±3.50 dB
Maximum conducted output power	Spectrum Analyzer: ±2.14 dB Power Meter: ±1.05 dB
Maximun Power Spectral Density	±2.14 dB
Radiated Emission	9 kHz~30 MHz: ±3.88 dB 30 MHz~1 GHz: ±4.42 dB 1 GHz~18 GHz: ±4.28 dB 18 GHz~40 GHz: ±3.90 dB
Band Edge	9 kHz~30 MHz: ±3.88 dB 30 MHz~1 GHz: ±4.42 dB 1 GHz~18 GHz: ±4.28 dB 18 GHz~40 GHz: ±3.90 dB
Occupied Bandwidth	±1580.61 Hz
Duty Cycle	±0.53 %

2. Conducted Emission

2.1. Test Setup



2.2. Limits

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

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

2.3. Test Procedure

The EUT and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50 ohm /50 uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50 ohm /50 uH coupling impedance with 50ohm termination. (Please refers to the block diagram of the test setup and photographs.)

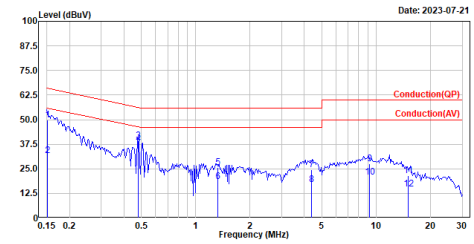
Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4:2014 on conducted measurement.

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

2.4. Test Result of Conducted Emission

Adapter #1 (M/N: DCT36W120300ZZ-D2)

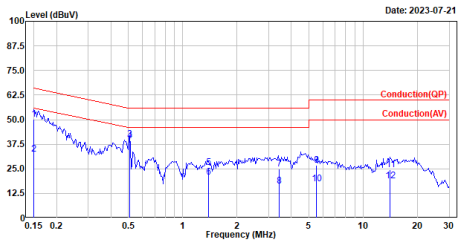
Site :HY-SR01
Condition :Line
Mode :TX_ax80_5775MHz
test by :Jimmy



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	0.151	49.65	65.97	-16.32	39.97	9.68	QP
2	0.151	31.71	55.97	-24.26	22.03	9.68	Average
3	0.479	39.41	56.36	-16.95	29.73	9.68	QP
4	0.479	37.59	46.36	-8.77	27.91	9.68	Average
5	1.331	25.78	56.00	-30.22	16.03	9.75	QP
6	1.331	18.47	46.00	-27.53	8.72	9.75	Average
7	4.385	24.63	56.00	-31.37	14.00	10.63	QP
8	4.385	16.88	46.00	-29.12	6.25	10.63	Average
9	9.172	27.70	60.00	-32.30	16.89	10.81	QP
10	9.172	20.84	50.00	-29.16	10.03	10.81	Average
11	15.018	21.69	60.00	-38.31	10.90	10.79	QP
12	15.018	14.78	50.00	-35.22	3.99	10.79	Average

Note:
1. Level = Read Level + Factor
2. Factor = LISN insertion loss + Cable loss
3. Over Limit = Level - Limit Line

Site :HY-SR01
Condition :Neutral
Mode :TX_ax80_5775MHz
test by :Jimmy

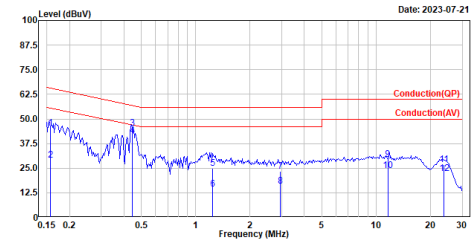


No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	0.150	50.29	65.99	-15.70	40.63	9.66	QP
2	0.150	32.49	55.99	-23.50	22.83	9.66	Average
3	0.508	40.15	56.00	-15.85	30.49	9.66	QP
4	0.508	39.18	46.00	-6.82	29.52	9.66	Average
5	1.385	25.84	56.00	-30.16	16.11	9.73	QP
6	1.385	20.71	46.00	-25.29	10.98	9.73	Average
7	3.430	24.96	56.00	-31.04	14.67	10.29	QP
8	3.430	16.26	46.00	-29.74	5.97	10.29	Average
9	5.486	26.71	60.00	-33.29	15.89	10.82	QP
10	5.486	17.34	50.00	-32.66	6.52	10.82	Average
11	14.122	24.61	60.00	-35.39	13.79	10.82	QP
12	14.122	18.69	50.00	-31.31	7.87	10.82	Average

Note:
1. Level = Read Level + Factor
2. Factor = LISN insertion loss + Cable loss
3. Over Limit = Level - Limit Line

Adapter #2 (M/N: PS36LA120K3000UD)

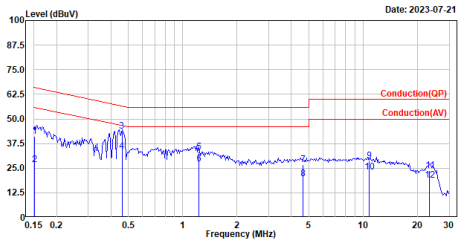
Site :HY-SR01
Condition :Line
Mode :TX_ax80_5775MHz
test by :Jimmy



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	0.156	45.35	65.65	-20.30	35.67	9.68	QP
2	0.156	28.94	55.65	-26.71	19.26	9.68	Average
3	0.446	45.44	56.94	-11.50	35.76	9.68	QP
4	0.446	41.33	46.94	-5.61	31.65	9.68	Average
5	1.238	24.96	56.00	-31.04	15.22	9.74	QP
6	1.238	14.26	46.00	-31.74	4.52	9.74	Average
7	2.956	23.41	56.00	-32.59	13.26	10.15	QP
8	2.956	15.94	46.00	-30.06	5.79	10.15	Average
9	11.585	29.42	60.00	-30.58	18.62	10.80	QP
10	11.585	23.68	50.00	-26.32	12.88	10.80	Average
11	23.687	26.94	60.00	-33.06	16.35	10.59	QP
12	23.687	22.36	50.00	-27.64	11.77	10.59	Average

Note:
1. Level = Read Level + Factor
2. Factor = LISN insertion loss + Cable loss
3. Over Limit = Level - Limit Line

Site :HY-SR01
Condition :Neutral
Mode :TX_ax80_5775MHz
test by :Jimmy



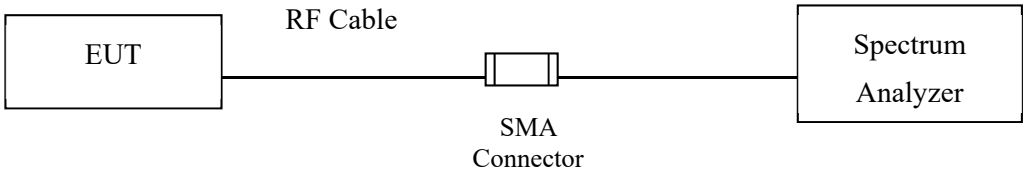
No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	0.152	41.26	65.91	-24.65	31.60	9.66	QP
2	0.152	26.71	55.91	-29.20	17.05	9.66	Average
3	0.461	43.65	56.68	-13.03	33.99	9.66	QP
4	0.461	33.74	46.68	-12.94	24.08	9.66	Average
5	1.227	33.27	56.00	-22.73	23.55	9.72	QP
6	1.227	27.18	46.00	-18.82	17.46	9.72	Average
7	4.625	26.63	56.00	-29.37	15.94	10.69	QP
8	4.625	19.79	46.00	-26.21	9.10	10.69	Average
9	10.795	28.71	60.00	-31.29	17.92	10.79	QP
10	10.795	22.83	50.00	-27.17	12.04	10.79	Average
11	23.354	23.59	60.00	-36.41	12.87	10.72	QP
12	23.354	18.81	50.00	-31.19	8.09	10.72	Average

Note:
1. Level = Read Level + Factor
2. Factor = LISN insertion loss + Cable loss
3. Over Limit = Level - Limit Line

3. Maximun conducted output power

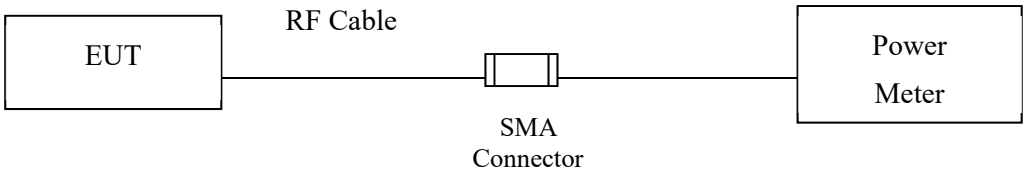
3.1. Test Setup

26 dB Occupied Bandwidth

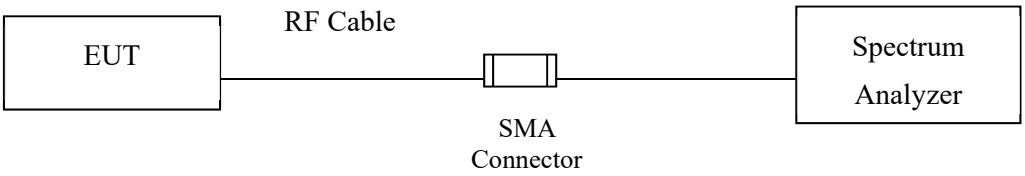


Conduction Power Measurement

Conduction Power Measurement (for 802.11an)



Conduction Power Measurement (for 802.11ac/ax)



3.2. Limits

For the band 5.15-5.25 GHz,

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

(ii) For an indoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

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

(iv) For mobile and portable client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. In addition. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or 11 dBm 10 log B, where B is the 99% emission bandwidth in megahertz. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point UNII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

The maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For CDD mode:

5150MHz-5250MHz: Directional gain = 4.46 dBi, Limit= 30dBm

5725MHz-5850MHz: Directional gain = 4.51 dBi, Limit= 30dBm

(Directional gain = $G_{ANT\ MAX}$ + Array Gain, Array Gain = 0 dB for $N_{ANT} \leq 2$)

3.3. Test Procedure

As an alternative to FCC KDB-789033, the EUT maximum conducted output power was measured with an average power meter employing a video bandwidth greater the 6dB BW of the emission under test. Maximum conducted output power was read directly from the meter across all data rates, and across three channels within each sub-band. Special care was used to make sure that the EUT was transmitting in continuous mode. This method exceeds the limitations of FCC KDB-789033, and provides more accurate measurements.

802.11an (BW≦40 MHz) Maximum conducted output power using KDB 789033 section E)3)b) Method PM-G (Measurement using a gated RF average power meter)

Note: the power meter have a video bandwidth that is greater than or equal to the measurement bandwidth, (Anritsu/ MA2411B video bandwidth: 65MHz)

802.11ac (BW=80 MHz) Maximum conducted output power using KDB 789033 section E)2)b) Method SA-1 (trace averaging with the EUT transmitting at full power throughout each sweep).

When transmitted signals consist of two or more non-contiguous spectrum segments (e.g., 80+80 MHz mode) or when a single spectrum segment of a transmission crosses the boundary between two adjacent U-NII bands, KDB 644545 D03 section D) procedure is used for measurements.

3.4. Test Result of Maximum conducted output power

Product : Peplink Pepwave Wireless Product
Test Item : Maximum conducted output power
Test Mode : Transmit (802.11a-CDD)_Master
Test Date : 2023/06/21

Maximum conducted output power Measurement:

Channel No.	Frequency (MHz)	26 dB Bandwidth (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Output Power (dBm)	Duty factor (dB)	Output Power Limit		Result
							(dBm)	dBm+10log(BW)	
36	5180	--	19.02	19.22	22.13	--	30	--	Pass
44	5220	--	22.60	23.93	26.33	--	30	--	Pass
48	5240	--	22.44	23.49	26.01	--	30	--	Pass
149	5745	--	19.71	20.47	23.12	--	30	--	Pass
157	5785	--	19.45	20.54	23.04	--	30	--	Pass
165	5825	--	19.61	20.38	23.02	--	30	--	Pass

Note:
1. Output Power Value (dBm) = 10*LOG (Chain A(mW)+ Chain B(mW))
2. 26 dB Bandwidth is the bandwidth of chain A or B whichever is less bandwidth, output power limitation is more stringent.

Product : Peplink Pepwave Wireless Product
Test Item : Maximum conducted output power
Test Mode : Transmit (802.11n-20BW-CDD)_Master
Test Date : 2023/06/21

Maximum conducted output power Measurement:

Channel No.	Frequency (MHz)	26 dB Bandwidth (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Output Power (dBm)	Duty factor (dB)	Output Power Limit		Result
							(dBm)	dBm+10log(BW)	
36	5180	--	18.74	18.88	21.82	--	30	--	Pass
44	5220	--	23.19	24.35	26.82	--	30	--	Pass
48	5240	--	22.56	23.58	26.11	--	30	--	Pass
149	5745	--	19.20	20.05	22.66	--	30	--	Pass
157	5785	--	18.11	19.07	21.63	--	30	--	Pass
165	5825	--	19.26	20.13	22.73	--	30	--	Pass

Note:

1. Output Power Value (dBm) = 10*LOG (Chain A(mW)+ Chain B(mW))
2. 26 dB Bandwidth is the bandwidth of chain A or B whichever is less bandwidth, output power limitation is more stringent.

Product : Peplink Pepwave Wireless Product
Test Item : Maximum conducted output power
Test Mode : Transmit (802.11n-40BW-CDD)_Master
Test Date : 2023/06/21

Maximum conducted output power Measurement:

Channel No.	Frequency (MHz)	26 dB Bandwidth (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Output Power (dBm)	Duty factor (dB)	Output Power Limit		Result
							(dBm)	dBm+10log(BW)	
38	5190	--	11.45	11.53	14.50	--	30	--	Pass
46	5230	--	21.38	21.47	24.44	--	30	--	Pass
151	5755	--	21.79	22.83	25.35	--	30	--	Pass
159	5795	--	20.18	21.11	23.68	--	30	--	Pass

Note:
1. Output Power Value (dBm) = 10*LOG (Chain A(mW)+ Chain B(mW))
2. 26 dB Bandwidth is the bandwidth of chain A or B whichever is less bandwidth, output power limitation is more stringent.

Product : Peplink Pepwave Wireless Product
Test Item : Maximum conducted output power
Test Mode : Transmit (802.11ac-20BW-CDD)_Master
Test Date : 2023/06/26

Maximum conducted output power Measurement:

Channel No.	Frequency (MHz)	26 dB Bandwidth (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Output Power (dBm)	Duty factor (dB)	Output Power Limit		Result
							(dBm)	dBm+10log(BW)	
36	5180	--	18.78	18.93	21.87	--	30	--	Pass
44	5220	--	23.26	24.41	26.88	--	30	--	Pass
48	5240	--	22.63	23.67	26.19	--	30	--	Pass
149	5745	--	19.25	20.11	22.71	--	30	--	Pass
157	5785	--	18.14	19.10	21.66	--	30	--	Pass
165	5825	--	19.35	20.16	22.78	--	30	--	Pass

Note:
1. Output Power Value (dBm) = 10*LOG (Chain A(mW)+ Chain B(mW))
2. 26 dB Bandwidth is the bandwidth of chain A or B whichever is less bandwidth, output power limitation is more stringent.

Product : Peplink Pepwave Wireless Product
Test Item : Maximum conducted output power
Test Mode : Transmit (802.11ac-40BW-CDD)_Master
Test Date : 2023/06/26

Maximum conducted output power Measurement:

Channel No.	Frequency (MHz)	26 dB Bandwidth (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Output Power (dBm)	Duty factor (dB)	Output Power Limit		Result
							(dBm)	dBm+10log(BW)	
38	5190	--	11.48	11.57	14.54	--	30	--	Pass
46	5230	--	21.43	21.55	24.50	--	30	--	Pass
151	5755	--	21.83	22.87	25.39	--	30	--	Pass
159	5795	--	20.22	21.19	23.74	--	30	--	Pass

Note:
1. Output Power Value (dBm) = 10*LOG (Chain A(mW)+ Chain B(mW))
2. 26 dB Bandwidth is the bandwidth of chain A or B whichever is less bandwidth, output power limitation is more stringent.

Product : Peplink Pepwave Wireless Product
Test Item : Maximum conducted output power
Test Mode : Transmit (802.11ac-80BW-CDD)_Master
Test Date : 2023/06/26

Maximum conducted output power Measurement:

Channel No.	Frequency (MHz)	26 dB Bandwidth (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Output Power (dBm)	Duty factor (dB)	Output Power Limit		Result
							(dBm)	dBm+10log(BW)	
42	5210	--	11.41	11.55	14.49	--	30	--	Pass
155	5775	--	16.97	17.43	20.22	--	30	--	Pass

Note:
1. Output Power Value (dBm) = 10*LOG (Chain A(mW)+ Chain B(mW))
2. 26 dB Bandwidth is the bandwidth of chain A or B whichever is less bandwidth, output power limitation is more stringent.

Product : Peplink Pepwave Wireless Product
Test Item : Maximum conducted output power
Test Mode : Transmit (802.11ax-20BW-CDD)_Master
Test Date : 2023/06/26

Maximum conducted output power Measurement:

Channel No.	Frequency (MHz)	26 dB Bandwidth (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Output Power (dBm)	Duty factor (dB)	Output Power Limit		Result
							(dBm)	dBm+10log(BW)	
36	5180	--	18.82	18.97	21.91	--	30	--	Pass
44	5220	--	23.34	24.49	26.96	--	30	--	Pass
48	5240	--	22.68	23.71	26.24	--	30	--	Pass
149	5745	--	19.29	20.19	22.77	--	30	--	Pass
157	5785	--	18.16	19.16	21.70	--	30	--	Pass
165	5825	--	19.39	20.20	22.82	--	30	--	Pass

Note:
1. Output Power Value (dBm) = 10*LOG (Chain A(mW)+ Chain B(mW))
2. 26 dB Bandwidth is the bandwidth of chain A or B whichever is less bandwidth, output power limitation is more stringent.

Product : Peplink Pepwave Wireless Product
Test Item : Maximum conducted output power
Test Mode : Transmit (802.11ax-40BW-CDD)_Master
Test Date : 2023/06/26

Maximum conducted output power Measurement:

Channel No.	Frequency (MHz)	26 dB Bandwidth (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Output Power (dBm)	Duty factor (dB)	Output Power Limit		Result
							(dBm)	dBm+10log(BW)	
38	5190	--	11.52	11.63	14.59	--	30	--	Pass
46	5230	--	21.49	21.59	24.55	--	30	--	Pass
151	5755	--	21.89	22.91	25.44	--	30	--	Pass
159	5795	--	20.28	21.26	23.81	--	30	--	Pass

Note:
1. Output Power Value (dBm) = 10*LOG (Chain A(mW)+ Chain B(mW))
2. 26 dB Bandwidth is the bandwidth of chain A or B whichever is less bandwidth, output power limitation is more stringent.

Product : Peplink Pepwave Wireless Product
Test Item : Maximum conducted output power
Test Mode : Transmit (802.11ax-80BW-CDD)_Master
Test Date : 2023/06/26

Maximum conducted output power Measurement:

Channel No.	Frequency (MHz)	26 dB Bandwidth (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Output Power (dBm)	Duty factor (dB)	Output Power Limit		Result
							(dBm)	dBm+10log(BW)	
42	5210	--	11.44	11.59	14.53	--	30	--	Pass
155	5775	--	17.09	17.49	20.30	--	30	--	Pass

Note:
1. Output Power Value (dBm) = 10*LOG (Chain A(mW)+ Chain B(mW))
2. 26 dB Bandwidth is the bandwidth of chain A or B whichever is less bandwidth, output power limitation is more stringent.

Product : Peplink Pepwave Wireless Product
Test Item : Maximum conducted output power
Test Mode : Transmit (802.11a-CDD)_Slave
Test Date : 2023/06/26

Maximum conducted output power Measurement:

Channel No.	Frequency (MHz)	26 dB Bandwidth (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Output Power (dBm)	Duty factor (dB)	Output Power Limit		Result
							(dBm)	dBm+10log(BW)	
36	5180	--	17.61	18.52	21.10	--	24	--	Pass
44	5220	--	17.65	17.97	20.82	--	24	--	Pass
48	5240	--	17.62	17.80	20.72	--	24	--	Pass

Note:
1. Output Power Value (dBm) = 10*LOG (Chain A(mW)+ Chain B(mW))
2. 26 dB Bandwidth is the bandwidth of chain A or B whichever is less bandwidth, output power limitation is more stringent.

Product : Peplink Pepwave Wireless Product
Test Item : Maximum conducted output power
Test Mode : Transmit (802.11n-20BW-CDD)_Slave
Test Date : 2023/06/26

Maximum conducted output power Measurement:

Channel No.	Frequency (MHz)	26 dB Bandwidth (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Output Power (dBm)	Duty factor (dB)	Output Power Limit		Result
							(dBm)	dBm+10log(BW)	
36	5180	--	18.02	18.15	21.10	--	24	--	Pass
44	5220	--	17.63	18.04	20.85	--	24	--	Pass
48	5240	--	18.17	18.42	21.31	--	24	--	Pass

Note:
1. Output Power Value (dBm) = 10*LOG (Chain A(mW)+ Chain B(mW))
2. 26 dB Bandwidth is the bandwidth of chain A or B whichever is less bandwidth, output power limitation is more stringent.

Product : Peplink Pepwave Wireless Product
Test Item : Maximum conducted output power
Test Mode : Transmit (802.11n-40BW-CDD)_Slave
Test Date : 2023/06/26

Maximum conducted output power Measurement:

Channel No.	Frequency (MHz)	26 dB Bandwidth (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Output Power (dBm)	Duty factor (dB)	Output Power Limit		Result
							(dBm)	dBm+10log(BW)	
38	5190	--	11.45	11.53	14.5	--	24	--	Pass
46	5230	--	20.83	20.86	23.86	--	24	--	Pass

Note:
1. Output Power Value (dBm) = 10*LOG (Chain A(mW)+ Chain B(mW))
2. 26 dB Bandwidth is the bandwidth of chain A or B whichever is less bandwidth, output power limitation is more stringent.

Product : Peplink Pepwave Wireless Product
Test Item : Maximum conducted output power
Test Mode : Transmit (802.11ac-20BW-CDD)_Slave
Test Date : 2023/06/26

Maximum conducted output power Measurement:

Channel No.	Frequency (MHz)	26 dB Bandwidth (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Output Power (dBm)	Duty factor (dB)	Output Power Limit		Result
							(dBm)	dBm+10log(BW)	
36	5180	--	18.07	18.19	21.14	--	24	--	Pass
44	5220	--	17.68	18.11	20.91	--	24	--	Pass
48	5240	--	18.23	18.49	21.37	--	24	--	Pass

Note:
1. Output Power Value (dBm) = 10*LOG (Chain A(mW)+ Chain B(mW))
2. 26 dB Bandwidth is the bandwidth of chain A or B whichever is less bandwidth, output power limitation is more stringent.

Product : Peplink Pepwave Wireless Product
Test Item : Maximum conducted output power
Test Mode : Transmit (802.11ac-40BW-CDD)_Slave
Test Date : 2023/06/26

Maximum conducted output power Measurement:

Channel No.	Frequency (MHz)	26 dB Bandwidth (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Output Power (dBm)	Duty factor (dB)	Output Power Limit		Result
							(dBm)	dBm+10log(BW)	
38	5190	--	11.48	11.57	14.54	--	24	--	Pass
46	5230	--	20.87	20.91	23.90	--	24	--	Pass

Note:
1. Output Power Value (dBm) = 10*LOG (Chain A(mW)+ Chain B(mW))
2. 26 dB Bandwidth is the bandwidth of chain A or B whichever is less bandwidth, output power limitation is more stringent.

Product : Peplink Pepwave Wireless Product
Test Item : Maximum conducted output power
Test Mode : Transmit (802.11ac-80BW-CDD)_Slave
Test Date : 2023/06/26

Maximum conducted output power Measurement:

Channel No.	Frequency (MHz)	26 dB Bandwidth (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Output Power (dBm)	Duty factor (dB)	Output Power Limit		Result
							(dBm)	dBm+10log(BW)	
42	5210	--	11.41	11.55	14.49	--	24	--	Pass

Note:
1. Output Power Value (dBm) = 10*LOG (Chain A(mW)+ Chain B(mW))
2. 26 dB Bandwidth is the bandwidth of chain A or B whichever is less bandwidth, output power limitation is more stringent.

Product : Peplink Pepwave Wireless Product
Test Item : Maximum conducted output power
Test Mode : Transmit (802.11ax-20BW-CDD)_Slave
Test Date : 2023/06/26

Maximum conducted output power Measurement:

Channel No.	Frequency (MHz)	26 dB Bandwidth (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Output Power (dBm)	Duty factor (dB)	Output Power Limit		Result
							(dBm)	dBm+10log(BW)	
36	5180	--	18.14	18.27	21.22	--	24	--	Pass
44	5220	--	17.71	18.15	20.95	--	24	--	Pass
48	5240	--	18.28	18.52	21.41	--	24	--	Pass

Note:
1. Output Power Value (dBm) = 10*LOG (Chain A(mW)+ Chain B(mW))
2. 26 dB Bandwidth is the bandwidth of chain A or B whichever is less bandwidth, output power limitation is more stringent.

Product : Peplink Pepwave Wireless Product
Test Item : Maximum conducted output power
Test Mode : Transmit (802.11ax-40BW-CDD)_Slave
Test Date : 2023/06/26

Maximum conducted output power Measurement:

Channel No.	Frequency (MHz)	26 dB Bandwidth (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Output Power (dBm)	Duty factor (dB)	Output Power Limit		Result
							(dBm)	dBm+10log(BW)	
38	5190	--	11.52	11.63	14.59	--	24	--	Pass
46	5230	--	20.90	20.95	23.94	--	24	--	Pass

Note:
1. Output Power Value (dBm) = 10*LOG (Chain A(mW)+ Chain B(mW))
2. 26 dB Bandwidth is the bandwidth of chain A or B whichever is less bandwidth, output power limitation is more stringent.

Product : Peplink Pepwave Wireless Product
Test Item : Maximum conducted output power
Test Mode : Transmit (802.11ax-80BW-CDD)_Slave
Test Date : 2023/06/26

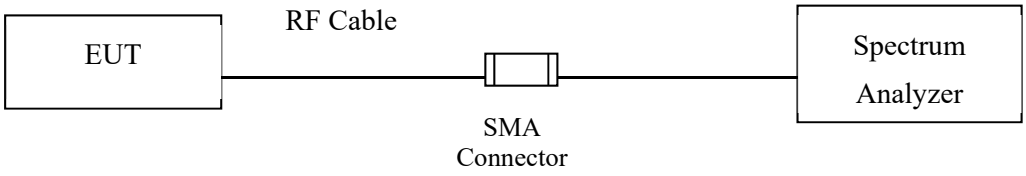
Maximum conducted output power Measurement:

Channel No.	Frequency (MHz)	26 dB Bandwidth (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Output Power (dBm)	Duty factor (dB)	Output Power Limit		Result
							(dBm)	dBm+10log(BW)	
42	5210	--	11.44	11.59	14.53	--	24	--	Pass

Note:
1. Output Power Value (dBm) = 10*LOG (Chain A(mW)+ Chain B(mW))
2. 26 dB Bandwidth is the bandwidth of chain A or B whichever is less bandwidth, output power limitation is more stringent.

4. Maximun Power Spectral Density

4.1. Test Setup



4.2. Limits

For the band 5.15-5.25 GHz,

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

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

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

(iv) For mobile and portable 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, the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum 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, the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For the band 5.725-5.85 GHz, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point UNII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

The maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For CDD mode:

5150MHz-5250MHz: Directional gain = 7.47 dBi, Limit= 15.53 dBm

5725MHz-5850MHz: Directional gain = 7.52 dBi, Limit= 28.48 dBm

Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20})^2$ / N_{ANT}] dBi

4.3. Test Procedure

The EUT was setup to ANSI C63.10, 2013; tested to UNII test procedure of FCC KDB-789033 for compliance to FCC 47CFR Subpart E requirements.

The Peak Power Spectral Density using KDB 789033 section F) procedure, Create an average power spectrum for the EUT operating mode being tested by following the instructions in section E)2) for measuring maximum conducted output power using a spectrum analyzer.

SA-1 method is selected to run the test.

4.4. Test Result of Maximun Power Spectral Density

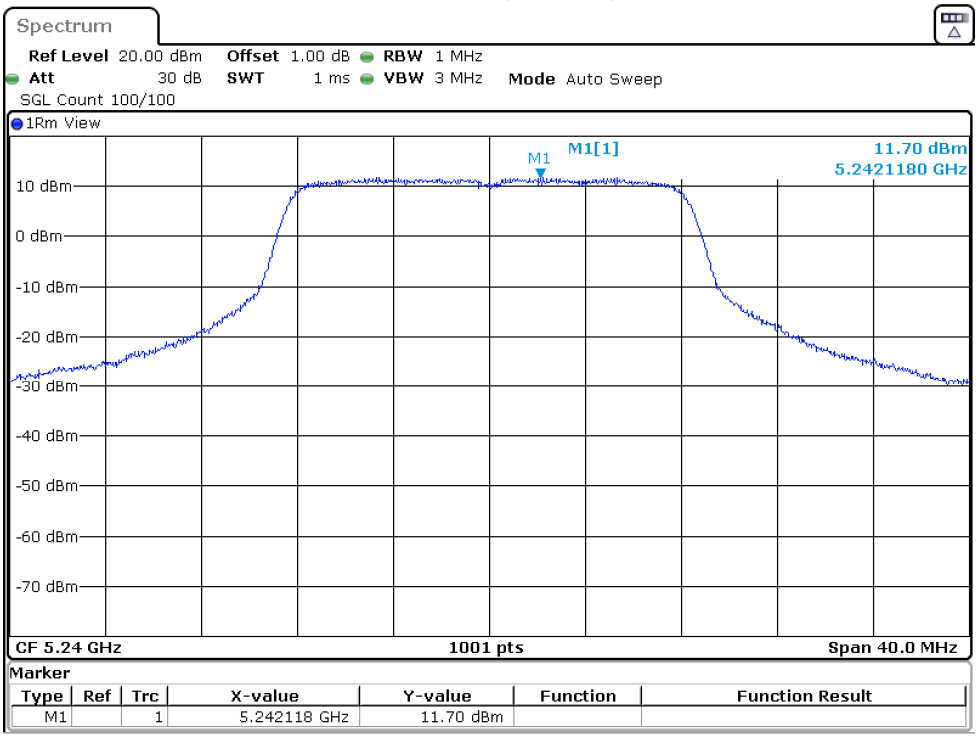
Product : Peplink Pepwave Wireless Product
Test Item : Maximun Power Spectral Density
Test Mode : Transmit (802.11a-CDD) _Master

Channel No.	Frequency (MHz)	Data Rate (Mbps)	Chain	PPSD/MHz (dBm)	Duty factor (dB)	Total PPSD/MHz (dBm)	Limit (dBm)	Result
36	5180	6	A	7.56	0.46	11.39	15.53	Pass
			B	8.26				
44	5220	6	A	11.60	0.46	15.11	15.53	Pass
			B	11.68				
48	5240	6	A	11.47	0.46	15.06	15.53	Pass
			B	11.70				

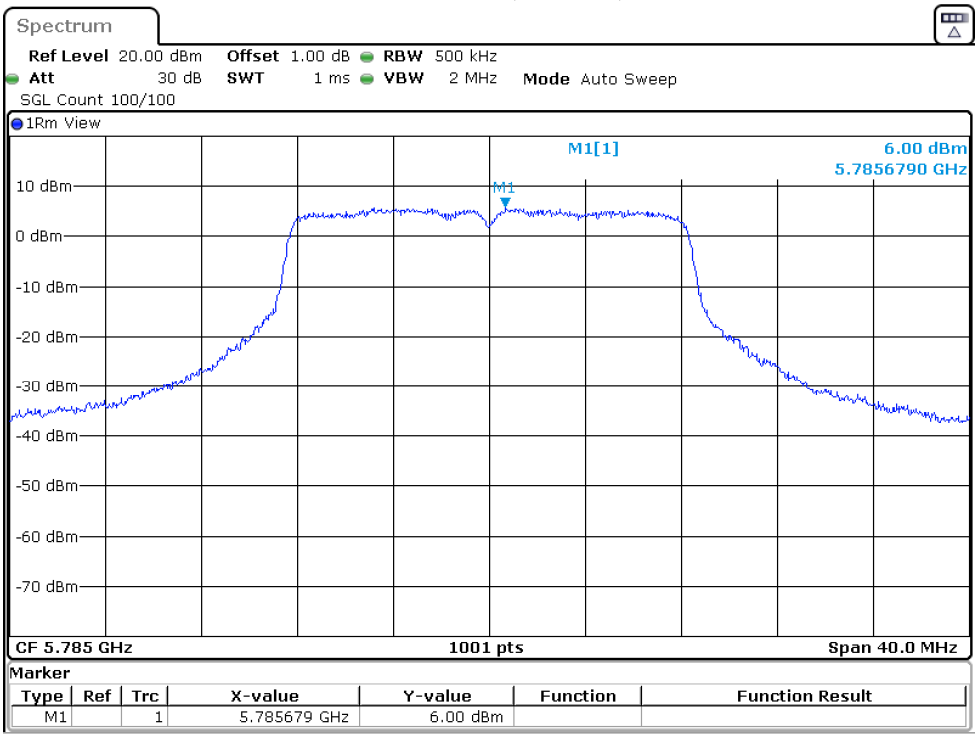
Channel No.	Frequency (MHz)	Data Rate (Mbps)	Chain	PPSD/MHz (dBm)	Duty factor (dB)	Total PPSD/MHz (dBm)	Limit (dBm)	Result
149	5745	6	A	5.64	0.46	9.27	28.48	Pass
			B	5.96				
157	5785	6	A	5.39	0.46	9.18	28.48	Pass
			B	6.00				
165	5825	6	A	5.38	0.46	8.72	28.48	Pass
			B	5.11				

Note: Total PPSD = 10*log(Chain A (mW) + Chain B (mW) + Duty factor.

Channel 48 (Chain B):



Channel 157 (Chain B):



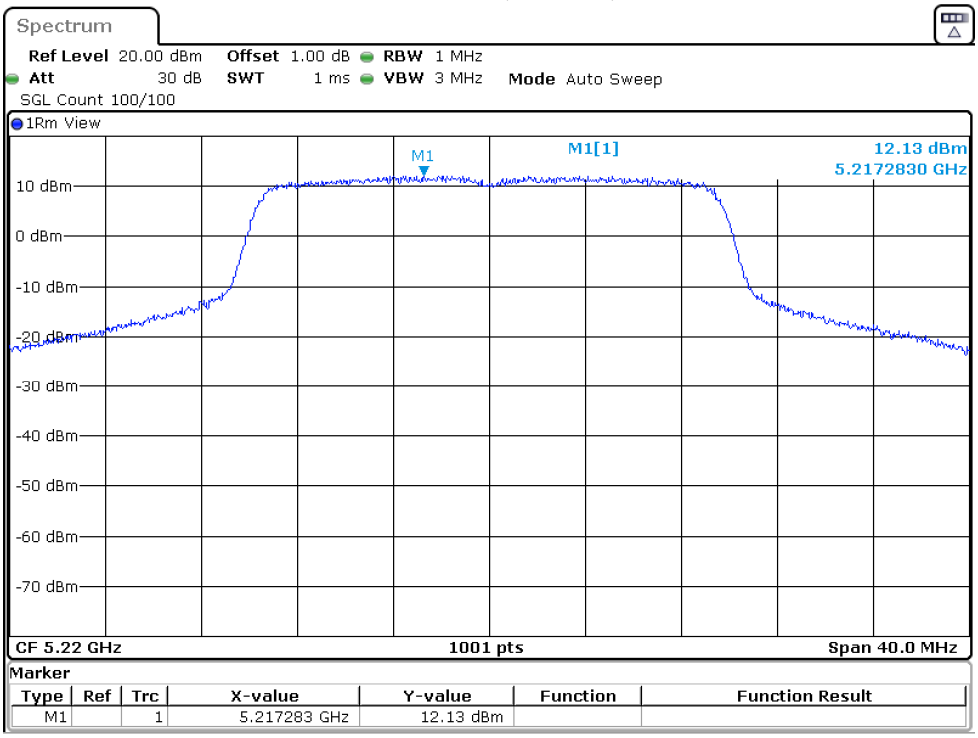
Product : Peplink Pepwave Wireless Product
Test Item : Maximun Power Spectral Density
Test Mode : Transmit (802.11ax-20BW-CDD)_Master

Channel No.	Frequency (MHz)	Data Rate	Chain	PPSD/MHz (dBm)	Duty factor (dB)	Total PPSD/MHz (dBm)	Limit (dBm)	Result
36	5180	MCS0	A	6.68	0.25	10.05	15.53	Pass
			B	6.90				
44	5220	MCS0	A	11.81	0.25	15.23	15.53	Pass
			B	12.13				
48	5240	MCS0	A	11.16	0.25	14.52	15.53	Pass
			B	11.36				

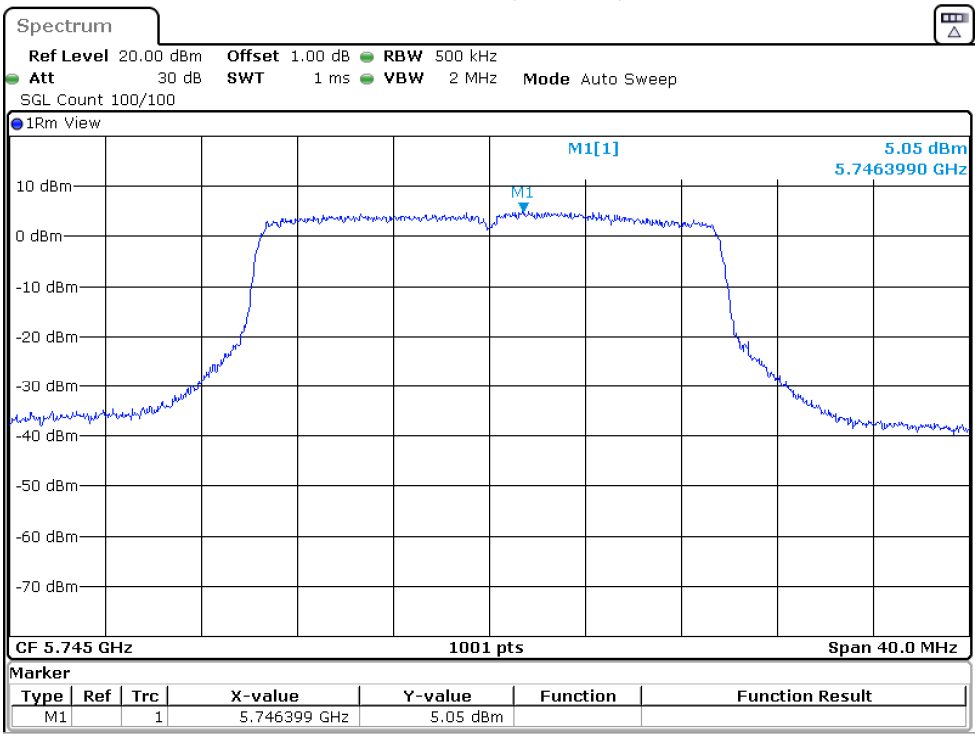
Channel No.	Frequency (MHz)	Data Rate	Chain	PPSD/MHz (dBm)	Duty factor (dB)	Total PPSD/MHz (dBm)	Limit (dBm)	Result
149	5745	MCS0	A	4.61	0.25	8.09	28.48	Pass
			B	5.05				
157	5785	MCS0	A	3.77	0.25	7.08	28.48	Pass
			B	3.88				
165	5825	MCS0	A	4.55	0.25	7.70	28.48	Pass
			B	4.32				

Note: Total PPSD = 10*log(Chain A (mW) + Chain B (mW) + Duty factor.

Channel 44 (Chain B):



Channel 149 (Chain B):



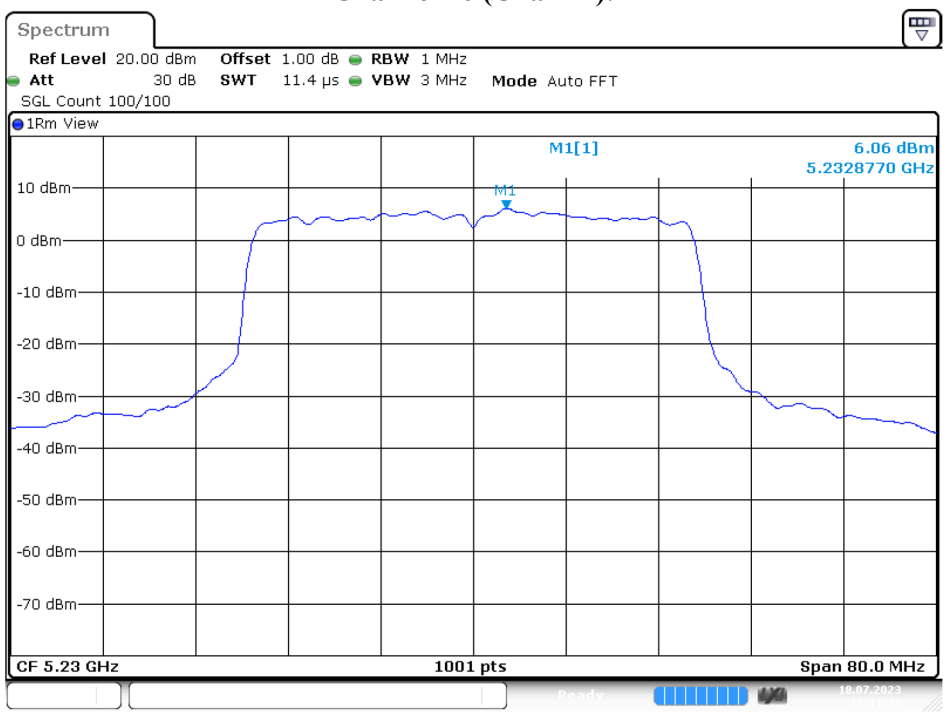
Product : Peplink Pepwave Wireless Product
Test Item : Maximun Power Spectral Density
Test Mode : Transmit (802.11ax-40BW-CDD)_Master

Channel No.	Frequency (MHz)	Data Rate	Chain	PPSD/MHz (dBm)	Duty factor (dB)	Total PPSD/MHz (dBm)	Limit (dBm)	Result
38	5190	MCS0	A	-3.43	0.26	-0.15	15.53	Pass
			B	-3.42				
46	5230	MCS0	A	5.62	0.26	9.12	15.53	Pass
			B	6.06				

Channel No.	Frequency (MHz)	Data Rate	Chain	PPSD/MHz (dBm)	Duty factor (dB)	Total PPSD/MHz (dBm)	Limit (dBm)	Result
151	5755	MCS0	A	4.25	0.26	8.00	28.48	Pass
			B	5.15				
159	5795	MCS0	A	2.63	0.26	5.98	28.48	Pass
			B	2.77				

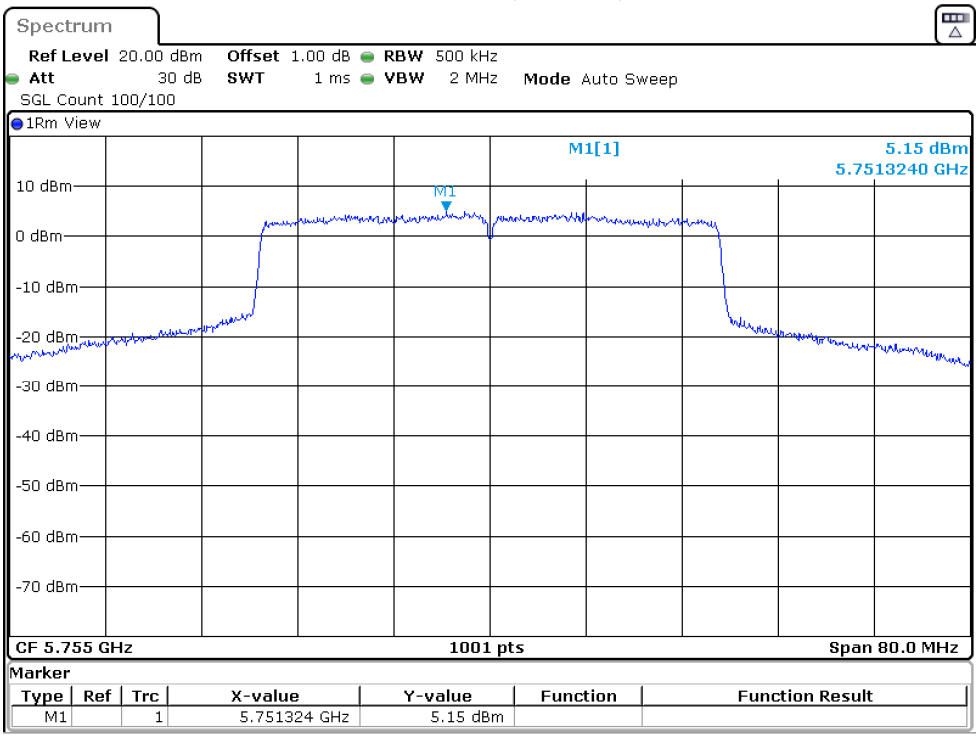
Note: Total PPSD = 10*log(Chain A (mW) + Chain B (mW) + Duty factor.

Channel 46 (Chain A):



Date: 18.JUL.2023 17:11:21

Channel 151 (Chain B):



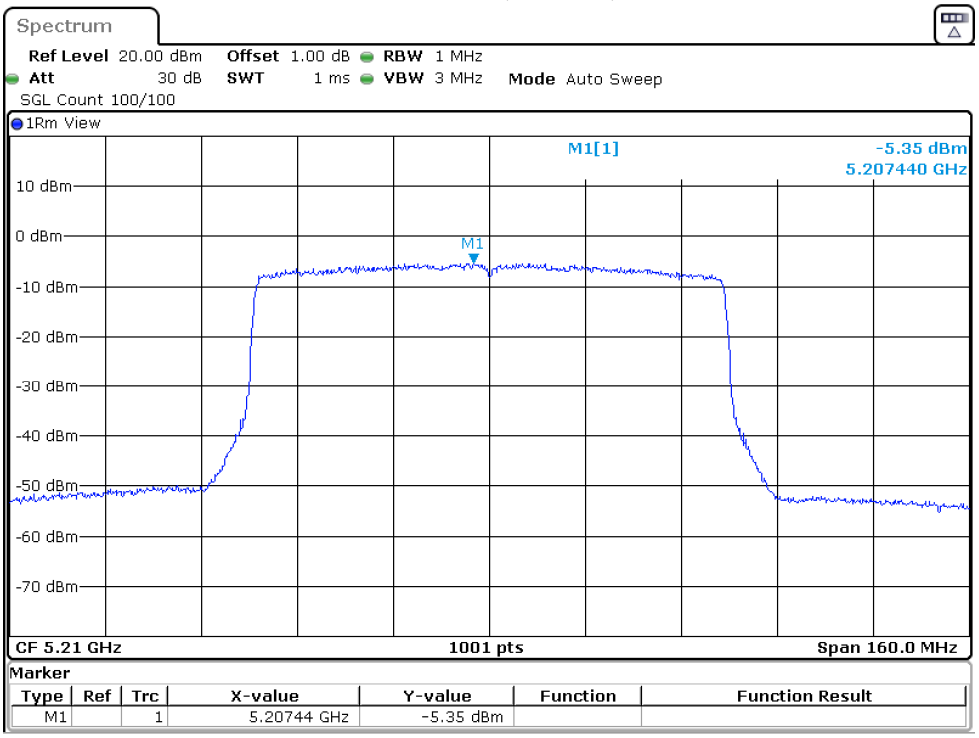
Product : Peplink Pepwave Wireless Product
Test Item : Maximun Power Spectral Density
Test Mode : Transmit (802.11ax-80BW-CDD)_Master

Channel No.	Frequency (MHz)	Data Rate	Chain	PPSD/MHz (dBm)	Duty factor (dB)	Total PPSD/MHz (dBm)	Limit (dBm)	Result
42	5210	MCS0	A	-5.60	0.34	-2.12	15.53	Pass
			B	-5.35				

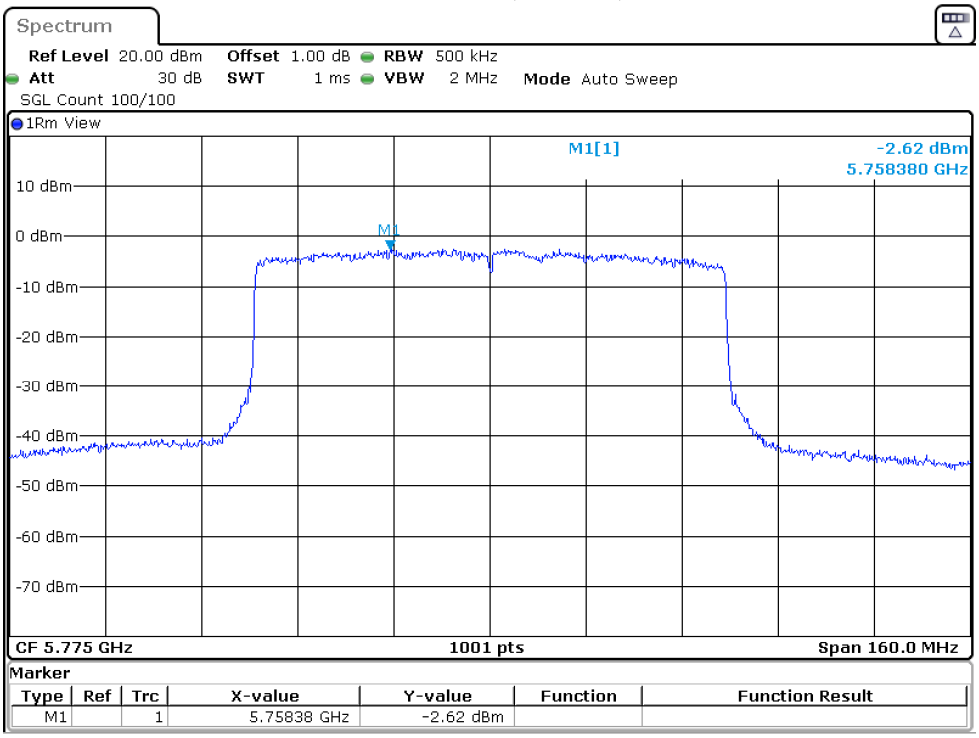
Channel No.	Frequency (MHz)	Data Rate	Chain	PPSD/MHz (dBm)	Duty factor (dB)	Total PPSD/MHz (dBm)	Limit (dBm)	Result
155	5775	MCS0	A	-2.65	0.34	0.72	28.48	Pass
			B	-2.62				

Note: Total PPSD = 10*log(Chain A (mW) + Chain B (mW) + Duty factor.

Channel 42 (Chain B):



Channel 155 (Chain B):

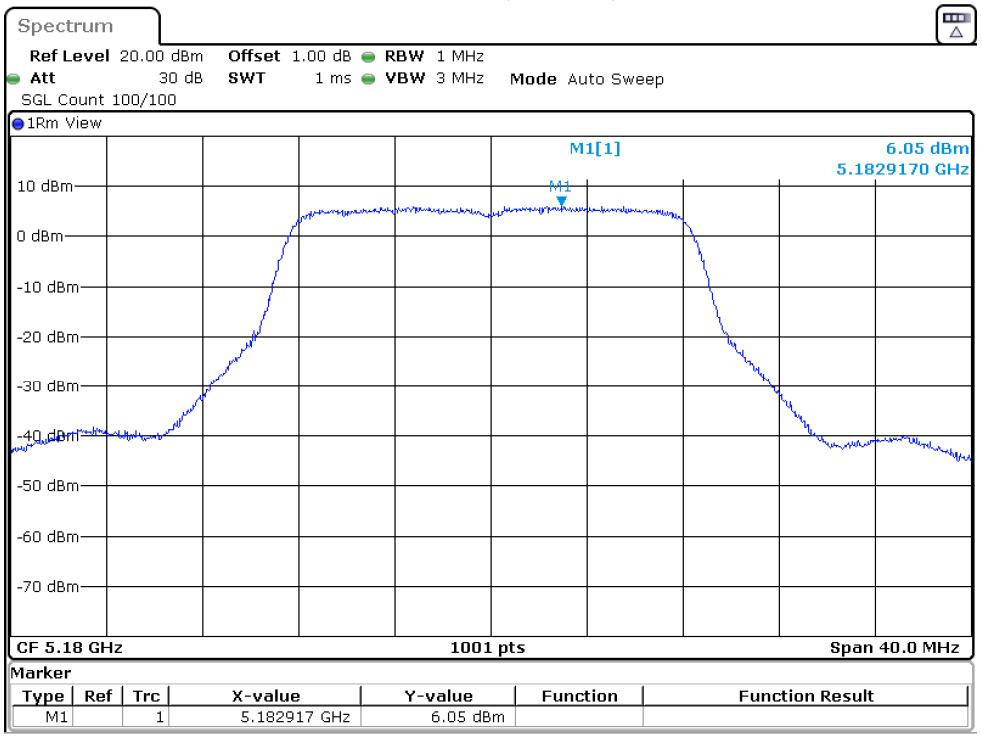


Product : Peplink Pepwave Wireless Product
Test Item : Maximun Power Spectral Density
Test Mode : Transmit (802.11a-CDD) _Slave

Channel No.	Frequency (MHz)	Data Rate (Mbps)	Chain	PPSD/MHz (dBm)	Duty factor (dB)	Total PPSD/MHz (dBm)	Limit (dBm)	Result
36	5180	6	A	5.89	0.46	9.44	9.53	Pass
			B	6.05				
44	5220	6	A	5.96	0.46	9.44	9.53	Pass
			B	5.98				
48	5240	6	A	6.02	0.46	9.50	9.53	Pass
			B	6.04				

Note: Total PPSD = 10*log(Chain A (mW) + Chain B (mW) + Duty factor.

Channel 36 (Chain B):

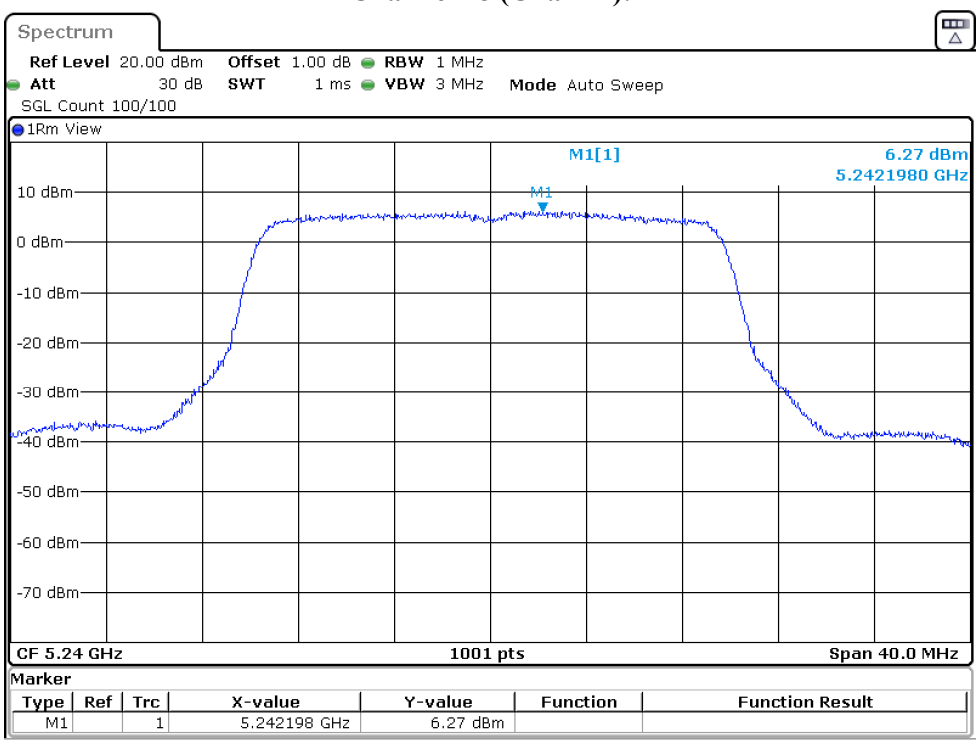


Product : Peplink Pepwave Wireless Product
Test Item : Maximun Power Spectral Density
Test Mode : Transmit (802.11ax-20BW-CDD)_Slave

Channel No.	Frequency (MHz)	Data Rate	Chain	PPSD/MHz (dBm)	Duty factor (dB)	Total PPSD/MHz (dBm)	Limit (dBm)	Result
36	5180	MCS0	A	6.01	0.25	9.33	9.53	Pass
			B	6.13				
44	5220	MCS0	A	5.61	0.25	9.19	9.53	Pass
			B	6.24				
48	5240	MCS0	A	6.20	0.25	9.49	9.53	Pass
			B	6.27				

Note: Total PPSD = 10*log(Chain A (mW) + Chain B (mW) + Duty factor.

Channel 48 (Chain B):

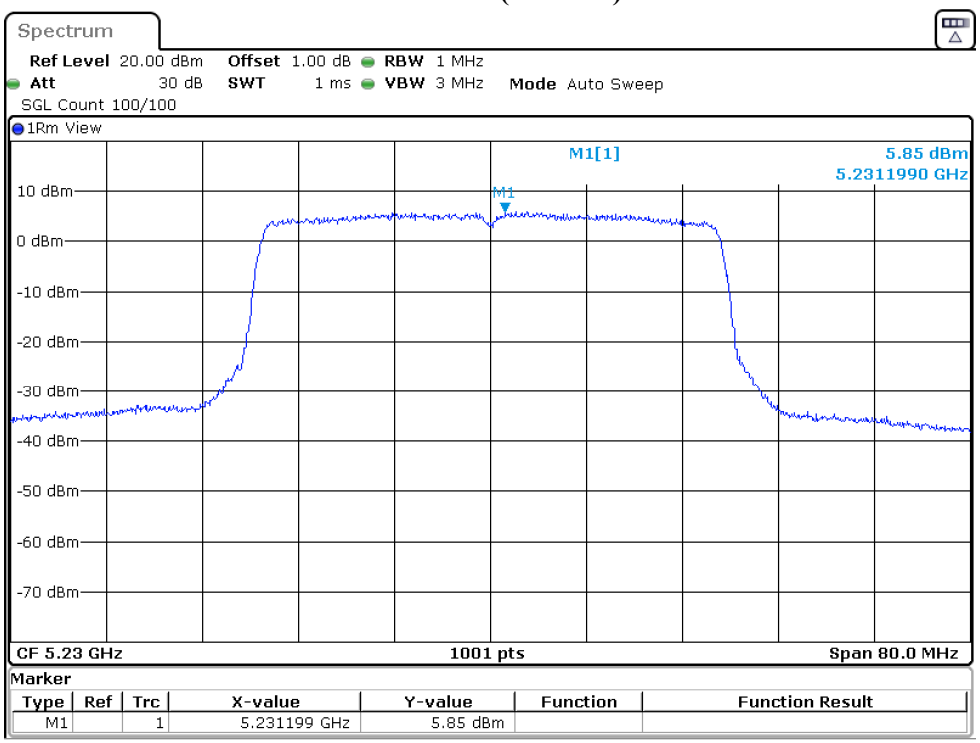


Product : Peplink Pepwave Wireless Product
Test Item : Maximun Power Spectral Density
Test Mode : Transmit (802.11ax-40BW-CDD)_Slave

Channel No.	Frequency (MHz)	Data Rate	Chain	PPSD/MHz (dBm)	Duty factor (dB)	Total PPSD/MHz (dBm)	Limit (dBm)	Result
38	5190	MCS0	A	-3.43	0.26	-0.15	9.53	Pass
			B	-3.42				
46	5230	MCS0	A	5.45	0.26	8.93	9.53	Pass
			B	5.85				

Note: Total PPSD = 10*log(Chain A (mW) + Chain B (mW) + Duty factor.

Channel 46 (Chain B):

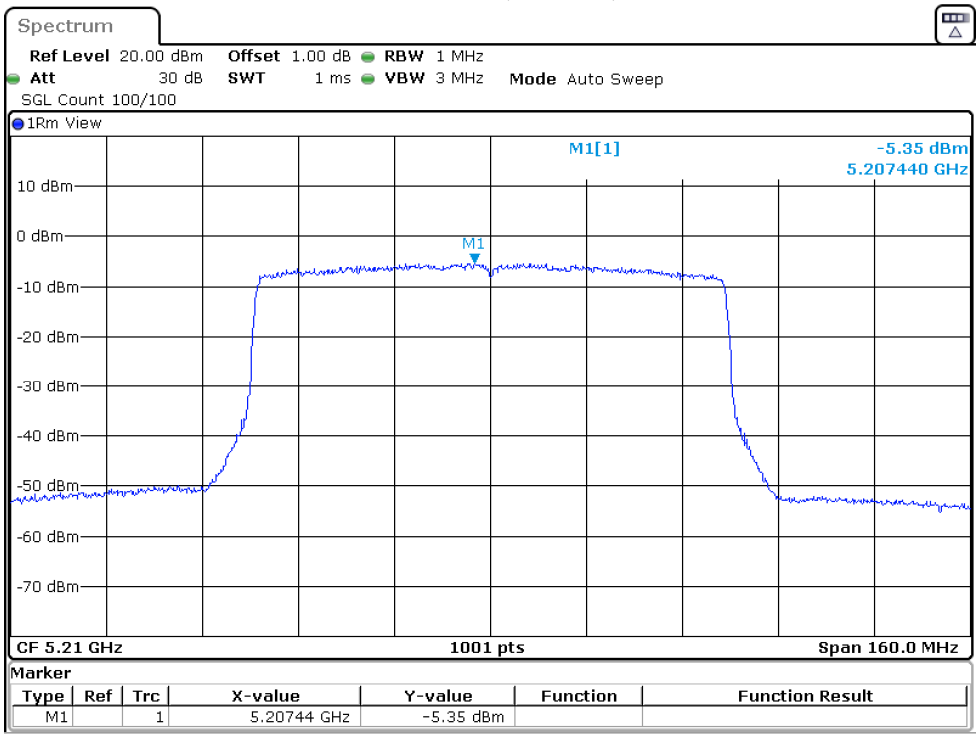


Product : Peplink Pepwave Wireless Product
Test Item : Maximun Power Spectral Density
Test Mode : Transmit (802.11ax-80BW-CDD)_Slave

Channel No.	Frequency (MHz)	Data Rate	Chain	PPSD/MHz (dBm)	Duty factor (dB)	Total PPSD/MHz (dBm)	Limit (dBm)	Result
42	5210	MCS0	A	-5.60	0.34	-2.12	9.53	Pass
			B	-5.35				

Note: Total PPSD = 10*log(Chain A (mW) + Chain B (mW) + Duty factor.

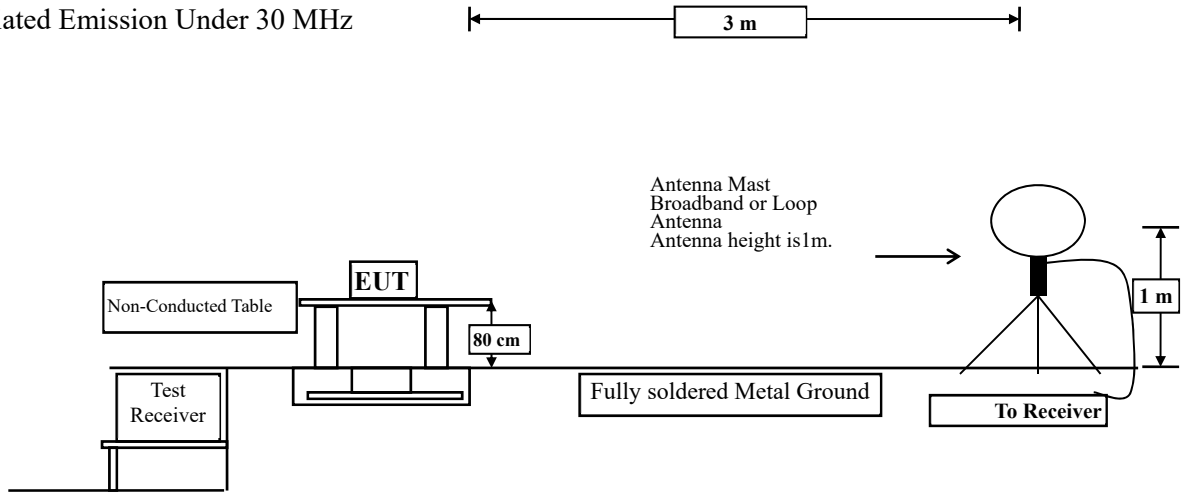
Channel 42 (Chain B):



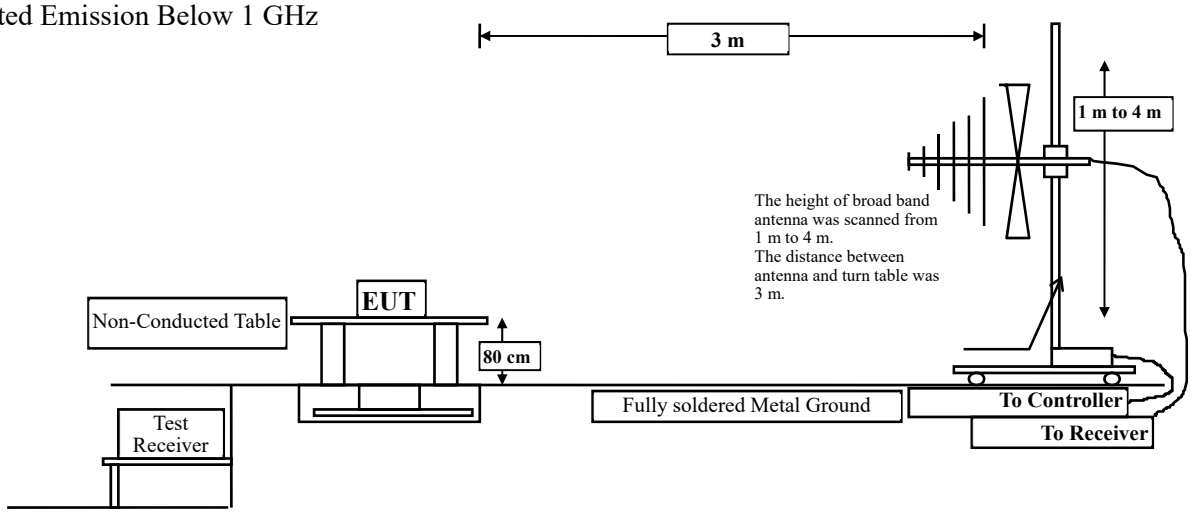
5. Radiated Emission

5.1. Test Setup

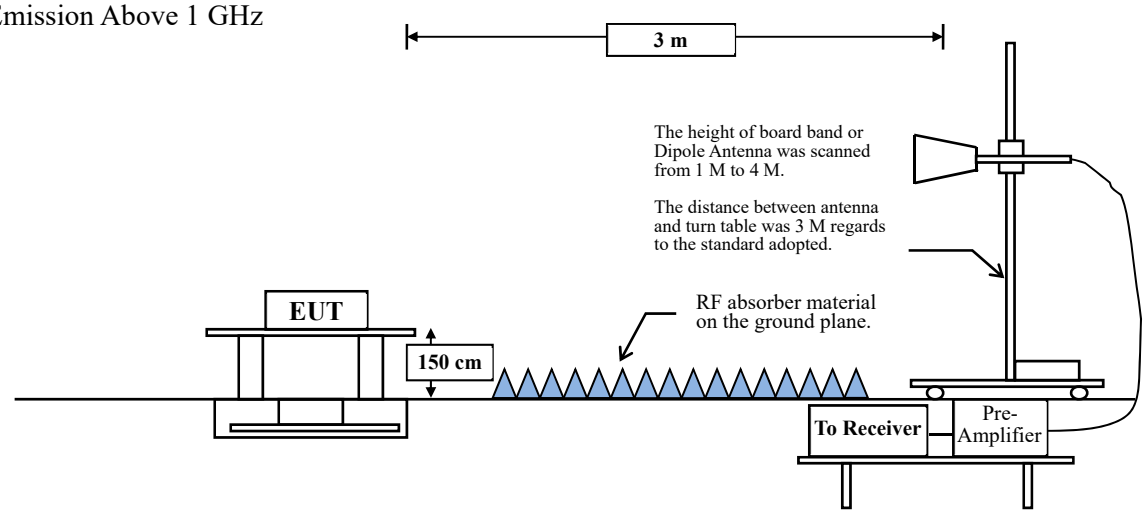
Radiated Emission Under 30 MHz



Radiated Emission Below 1 GHz



Radiated Emission Above 1 GHz



5.2. Limits

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 20 dB below the level of the fundamental or to the general radiated emission limits in paragraph 15.209, whichever is the lesser attenuation.

FCC Part 15 Subpart C Paragraph 15.209(a) Limits		
Frequency MHz	Field strength (microvolts/meter)	Measurement distance (meter)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Remarks: E field strength (dBμV/m) = 20 log E field strength (uV/m)

5.3. Test Procedure

The EUT was setup according to ANSI C63.10, 2013 and tested according to FCC KDB-789033 test procedure for compliance to FCC 47CFR 15. 407 requirements.

Measuring the frequency range below 1 GHz, the EUT is placed on a turn table which is 0.8 meter above ground,when measuring the frequency range above 1 GHz, the EUT is placed on a turn table which is 1.5 meter above ground.

The turn table is rotated 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 is scanned between 1 meter and 4 meters to find out the maximum emission level. This is repeated for both horizontal and vertical polarization of the antenna. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.10: 2013 on radiated measurement.

The resolution bandwidth below 30 MHz setting on the field strength meter is 9 kHz and 30 MHz~1 GHz is 120 kHz and above 1 GHz is 1 MHz.

Radiated emission measurements below 30 MHz are made using Loop Antenna and 30 MHz~1 GHz are made using broadband Bilog antenna and above 1 GHz are made using Horn Antennas.

The measurement is divided into the Preliminary Measurement and the Final Measurement.

The suspected frequencies are searched for in Preliminary Measurement with the measurement antenna kept pointed at the source of the emission both in azimuth and elevation, with the polarization of the antenna oriented for maximum response. The antenna is pointed at an angle towards the source of the emission, and the EUT is rotated in both height and polarization to maximize the measured emission. The emission is kept within the illumination area of the 3 dB bandwidth of the antenna.

The measurement frequency range form 9 kHz - 10th Harmonic of fundamental was investigated.

RBW and VBW Parameter setting:

According to KDB 789033 section II.G.5 Procedure for Unwanted Maximum Emissions Measurements above 1000 MHz.

RBW = 1 MHz.

VBW ≥ 3 MHz.

According to KDB 789033 section II.G.6 Procedures for Average Unwanted Emissions Measurements above 1000 MHz.

RBW = 1 MHz.

VBW = 10 Hz, when duty cycle ≥ 98 %

VBW ≥ 1/T, when duty cycle < 98 %

(T refers to the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.)

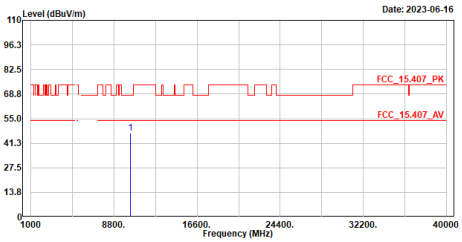
CDD Mode:

5 GHz band	Duty Cycle (%)	T (ms)	1/T (Hz)	VBW (Hz)
802.11a	89.94	3.2400	699	1000
802.11ax20	94.44	5.4400	184	200
802.11ax40	94.10	5.4200	185	200
802.11ax80	92.41	5.3600	187	200

Note: Duty Cycle Refer to Section 8.

5.4. Test Result of Radiated Emission

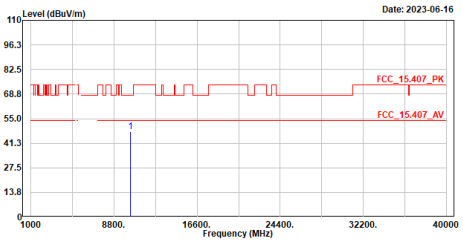
Site :HY-CB01
Condition :3m ,HORIZONTAL
Mode :TX_a_5180MHz
TEST BY :Caster



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	10360.000	46.92	68.22	-21.30	55.96	-9.04	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

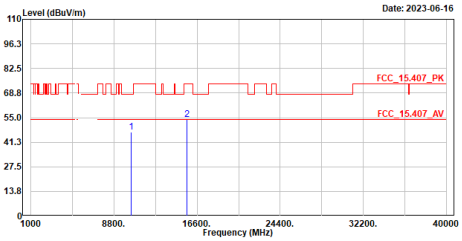
Site :HY-CB01
Condition :3m ,VERTICAL
Mode :TX_a_5180MHz
TEST BY :Caster



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	10360.000	47.92	68.22	-20.30	56.96	-9.04	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

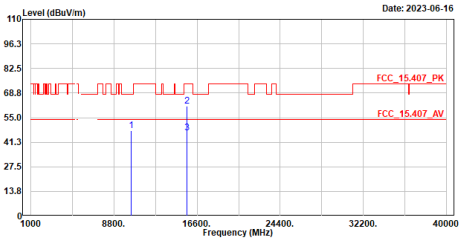
Site :HY-CB01
Condition :3m ,HORIZONTAL
Mode :TX_a_5220MHz
TEST BY :Caster



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	10440.000	47.03	68.22	-21.19	56.01	-8.98	Peak
2	15660.000	53.91	74.00	-20.09	54.69	-0.78	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

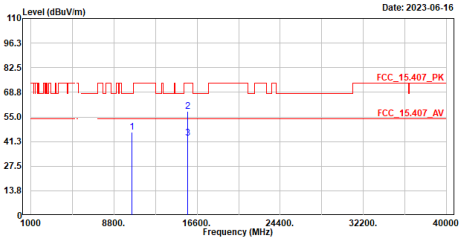
Site :HY-CB01
Condition :3m ,VERTICAL
Mode :TX_a_5220MHz
TEST BY :Caster



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	10440.000	47.55	68.22	-20.67	56.53	-8.98	Peak
2	15660.000	61.30	74.00	-12.70	62.08	-0.78	Peak
3	15660.000	46.49	54.00	-7.51	47.27	-0.78	Average

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

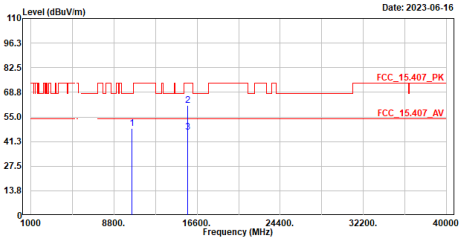
Site :HY-CB01
Condition :3m ,HORIZONTAL
Mode :TX_a_5240MHz
TEST BY :Caster



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	10480.000	46.52	68.22	-21.70	55.45	-8.93	Peak
2	15720.000	58.09	74.00	-15.91	58.86	-0.77	Peak
3	15720.000	42.99	54.00	-11.01	43.76	-0.77	Average

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

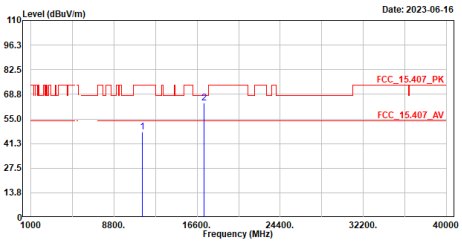
Site :HY-CB01
Condition :3m ,VERTICAL
Mode :TX_a_5240MHz
TEST BY :Caster



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	10480.000	48.55	68.22	-19.67	57.48	-8.93	Peak
2	15720.000	61.45	74.00	-12.55	62.22	-0.77	Peak
3	15720.000	46.51	54.00	-7.49	47.28	-0.77	Average

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

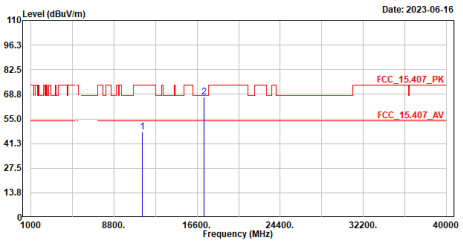
Site :HY-CB01
Condition :3m ,HORIZONTAL
Mode :TX_a_5745MHz
TEST BY :Caster



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	11490.000	47.88	74.00	-26.12	55.14	-7.26	Peak
2	17235.000	63.83	68.22	-4.39	64.38	-0.55	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

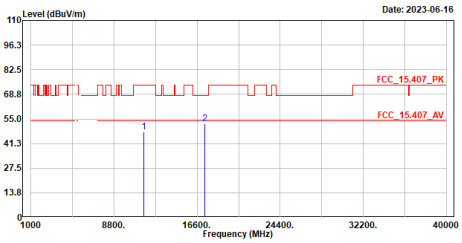
Site :HY-CB01
Condition :3m ,VERTICAL
Mode :TX_a_5745MHz
TEST BY :Caster



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	11490.000	47.73	74.00	-26.27	54.99	-7.26	Peak
2	17235.000	67.05	68.22	-1.17	67.60	-0.55	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

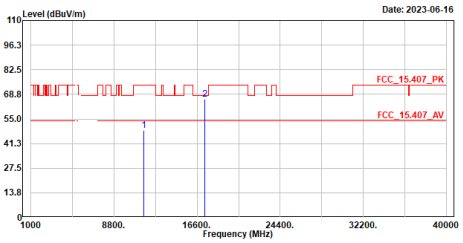
Site :HY-CB01
Condition :3m ,HORIZONTAL
Mode :TX_a_5785MHz
TEST BY :Caster



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	11570.000	47.60	74.00	-26.40	54.88	-7.28	Peak
2	17355.000	52.47	68.22	-15.75	52.50	-0.03	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

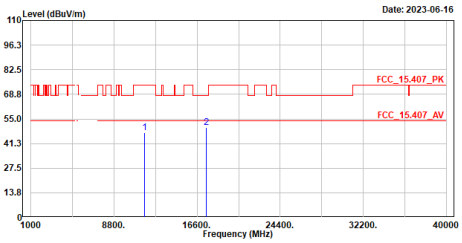
Site :HY-CB01
Condition :3m ,VERTICAL
Mode :TX_a_5785MHz
TEST BY :Caster



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	11570.000	48.77	74.00	-25.23	56.05	-7.28	Peak
2	17355.000	66.14	68.22	-2.08	66.17	-0.03	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

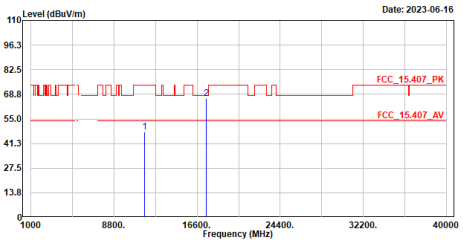
Site :HY-CB01
Condition :3m ,HORIZONTAL
Mode :TX_a_5825MHz
TEST BY :Caster



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	11650.000	47.45	74.00	-26.55	54.72	-7.27	Peak
2	17475.000	50.41	68.22	-17.81	50.58	-0.17	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

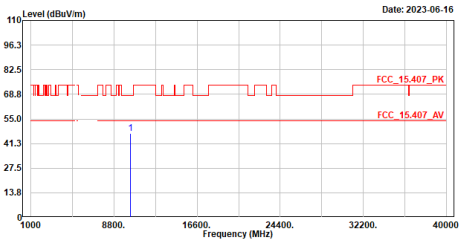
Site :HY-CB01
Condition :3m ,VERTICAL
Mode :TX_a_5825MHz
TEST BY :Caster



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	11650.000	47.70	74.00	-26.30	54.97	-7.27	Peak
2	17475.000	66.55	68.22	-1.67	66.72	-0.17	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

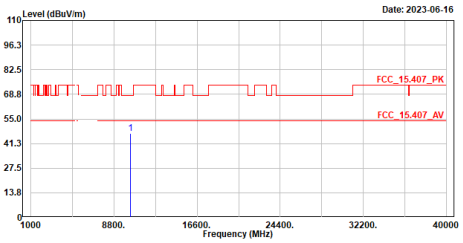
Site :HY-CB01
Condition :3m ,HORIZONTAL
Mode :TX_ax20_5180MHz
TEST BY :Caster



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	10360.000	46.99	68.22	-21.23	56.03	-9.04	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

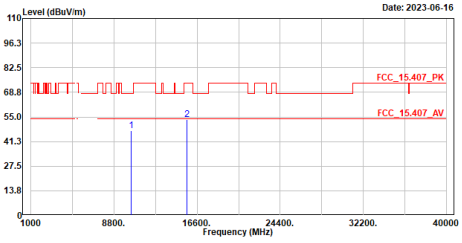
Site :HY-CB01
Condition :3m ,VERTICAL
Mode :TX_ax20_5180MHz
TEST BY :Caster



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	10360.000	46.74	68.22	-21.48	55.78	-9.04	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

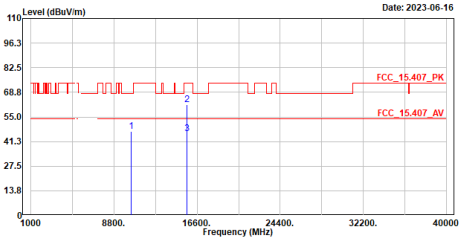
Site :HY-CB01
Condition :3m ,HORIZONTAL
Mode :TX_ax20_5220MHz
TEST BY :Caster



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	10440.000	47.23	68.22	-20.99	56.21	-8.98	Peak
2	15660.000	53.35	74.00	-20.65	54.13	-0.78	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

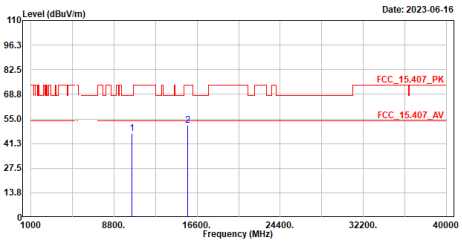
Site :HY-CB01
Condition :3m ,VERTICAL
Mode :TX_ax20_5220MHz
TEST BY :Caster



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	10440.000	46.84	68.22	-21.38	55.82	-8.98	Peak
2	15660.000	61.78	74.00	-12.22	62.56	-0.78	Peak
3	15660.000	45.49	54.00	-8.51	46.27	-0.78	Average

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

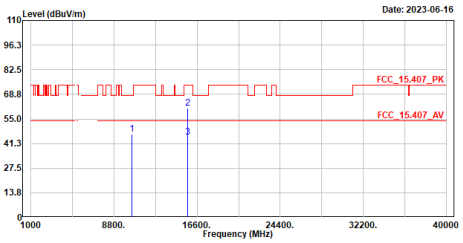
Site :HY-CB01
Condition :3m ,HORIZONTAL
Mode :TX_ax20_5240MHz
TEST BY :Caster



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	10480.000	47.05	68.22	-21.17	55.98	-8.93	Peak
2	15720.000	51.34	74.00	-22.66	52.11	-0.77	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

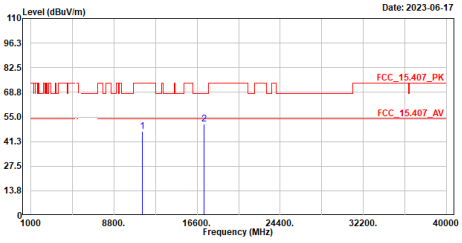
Site :HY-CB01
Condition :3m ,VERTICAL
Mode :TX_ax20_5240MHz
TEST BY :Caster



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	10480.000	46.42	68.22	-21.80	55.35	-8.93	Peak
2	15720.000	61.17	74.00	-12.83	61.94	-0.77	Peak
3	15720.000	44.89	54.00	-9.11	45.66	-0.77	Average

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

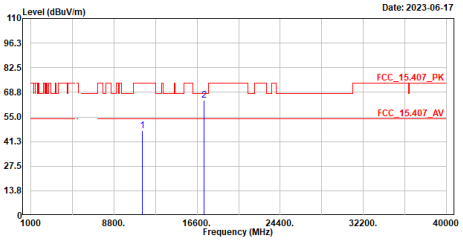
Site :HY-CB01
Condition :3m ,HORIZONTAL
Mode :TX_ax20_5745MHz
TEST BY :Caster



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	11490.000	46.86	74.00	-27.14	54.12	-7.26	Peak
2	17235.000	51.18	68.22	-17.04	51.73	-0.55	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

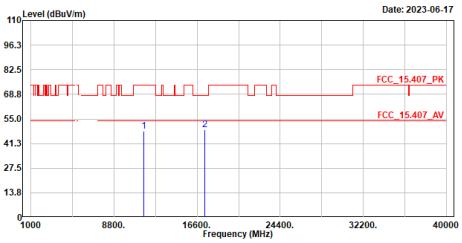
Site :HY-CB01
Condition :3m ,VERTICAL
Mode :TX_ax20_5745MHz
TEST BY :Caster



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	11490.000	47.18	74.00	-26.82	54.44	-7.26	Peak
2	17235.000	64.24	68.22	-3.98	64.79	-0.55	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

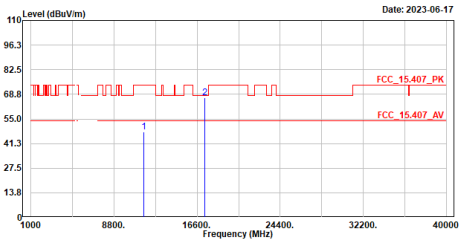
Site :HY-CB01
Condition :3m ,HORIZONTAL
Mode :TX_ax20_5785MHz
TEST BY :Caster



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	11570.000	48.15	74.00	-25.85	55.43	-7.28	Peak
2	17355.000	48.79	68.22	-19.43	48.82	-0.03	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

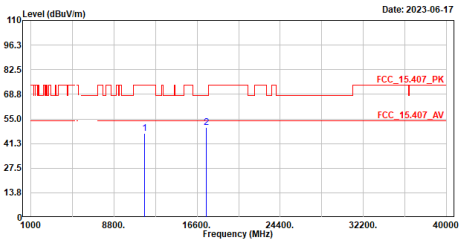
Site :HY-CB01
Condition :3m ,VERTICAL
Mode :TX_ax20_5785MHz
TEST BY :Caster



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	11570.000	47.59	74.00	-26.41	54.87	-7.28	Peak
2	17355.000	66.93	68.22	-1.29	66.96	-0.03	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

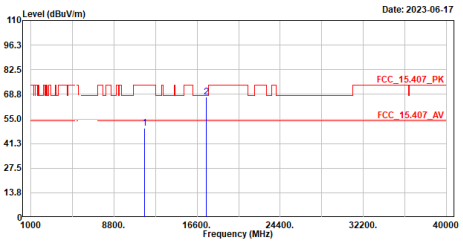
Site :HY-CB01
Condition :3m ,HORIZONTAL
Mode :TX_ax20_5825MHz
TEST BY :Caster



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	11650.000	46.85	74.00	-27.15	54.12	-7.27	Peak
2	17475.000	50.10	68.22	-18.12	50.27	-0.17	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

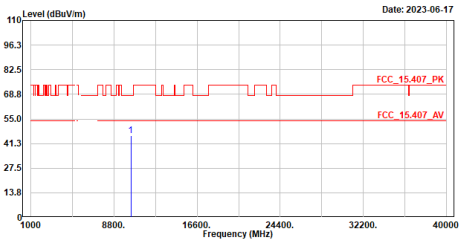
Site :HY-CB01
Condition :3m ,VERTICAL
Mode :TX_ax20_5825MHz
TEST BY :Caster



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	11650.000	49.61	74.00	-24.39	56.88	-7.27	Peak
2	17475.000	67.05	68.22	-1.17	67.22	-0.17	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

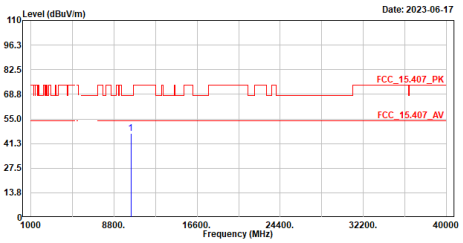
Site :HY-CB01
Condition :3m ,HORIZONTAL
Mode :TX_ax40_5190MHz
TEST BY :Sam



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	10380.000	45.86	68.22	-22.36	54.89	-9.03	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

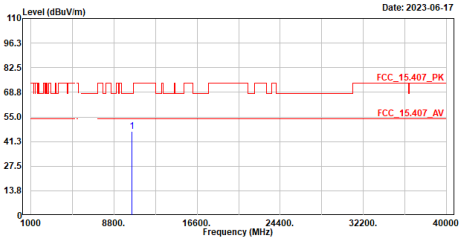
Site :HY-CB01
Condition :3m ,VERTICAL
Mode :TX_ax40_5190MHz
TEST BY :Sam



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	10380.000	46.73	68.22	-21.49	55.76	-9.03	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

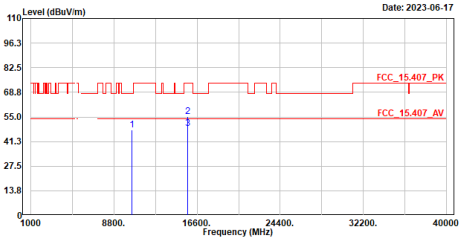
Site :HY-CB01
Condition :3m ,HORIZONTAL
Mode :TX_ax40_5230MHz
TEST BY :Sam



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	10460.000	46.76	68.22	-21.46	55.71	-8.95	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

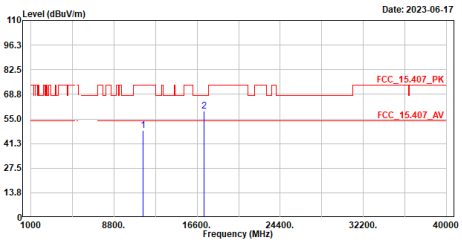
Site :HY-CB01
Condition :3m ,VERTICAL
Mode :TX_ax40_5230MHz
TEST BY :Sam



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	10460.000	47.60	68.22	-20.62	56.55	-8.95	Peak
2	15690.000	55.31	74.00	-18.69	56.08	-0.77	Peak
3	15690.000	48.45	54.00	-5.55	49.22	-0.77	Average

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

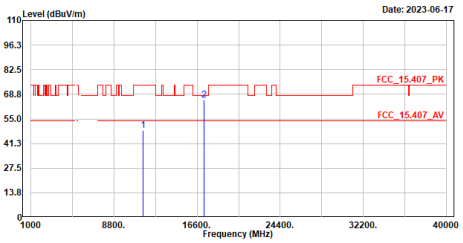
Site :HY-CB01
Condition :3m ,HORIZONTAL
Mode :TX_ax40_5755MHz
TEST BY :Sam



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	11510.000	48.49	74.00	-25.51	55.74	-7.25	Peak
2	17265.000	59.55	68.22	-8.67	60.05	-0.50	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

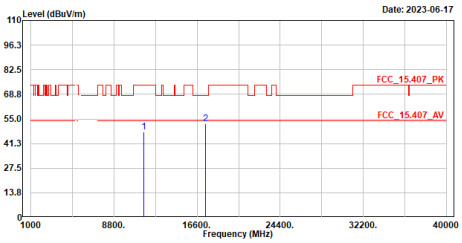
Site :HY-CB01
Condition :3m ,VERTICAL
Mode :TX_ax40_5755MHz
TEST BY :Sam



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	11510.000	48.64	74.00	-25.36	55.89	-7.25	Peak
2	17265.000	65.64	68.22	-2.58	66.02	-0.38	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

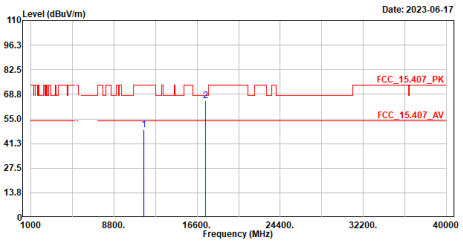
Site :HY-CB01
Condition :3m ,HORIZONTAL
Mode :TX_ax40_5795MHz
TEST BY :Sam



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	11590.000	47.58	74.00	-26.42	54.90	-7.32	Peak
2	17385.000	52.44	68.22	-15.78	52.41	0.03	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

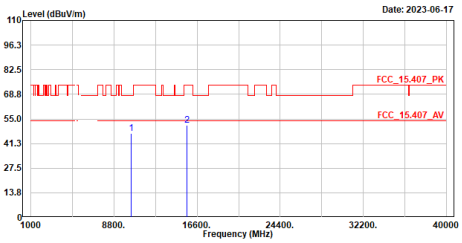
Site :HY-CB01
Condition :3m ,VERTICAL
Mode :TX_ax40_5795MHz
TEST BY :Sam



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	11590.000	49.06	74.00	-24.94	56.38	-7.32	Peak
2	17385.000	65.32	68.22	-2.90	65.34	-0.02	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

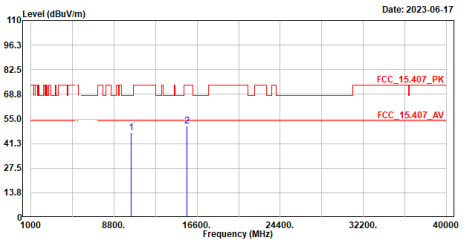
Site :HY-CB01
Condition :3m ,HORIZONTAL
Mode :TX_ax80_5210MHz
TEST BY :Sam



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	10420.000	47.03	68.22	-21.19	56.03	-9.00	Peak
2	15630.000	51.35	74.00	-22.65	52.14	-0.79	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

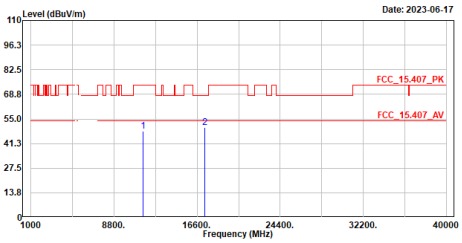
Site :HY-CB01
Condition :3m ,VERTICAL
Mode :TX_ax80_5210MHz
TEST BY :Sam



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	10420.000	47.17	68.22	-21.05	56.17	-9.00	Peak
2	15630.000	51.18	74.00	-22.82	51.97	-0.79	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

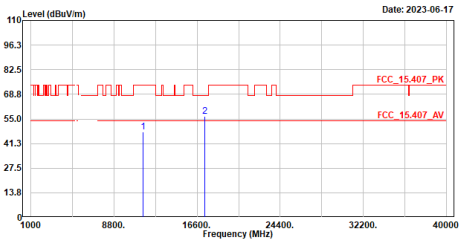
Site :HY-CB01
Condition :3m ,HORIZONTAL
Mode :TX_ax80_5775MHz
TEST BY :Sam



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	11550.000	48.29	74.00	-25.71	55.54	-7.25	Peak
2	17325.000	50.04	68.22	-18.18	50.15	-0.11	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

Site :HY-CB01
Condition :3m ,VERTICAL
Mode :TX_ax80_5775MHz
TEST BY :Sam

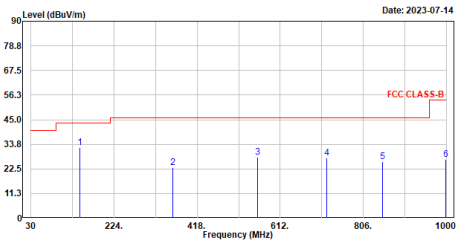


No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	11550.000	47.73	74.00	-26.27	54.98	-7.25	Peak
2	17325.000	56.47	68.22	-11.75	56.59	-0.12	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

Adapter #1 (M/N: DCT36W120300ZZ-D2)

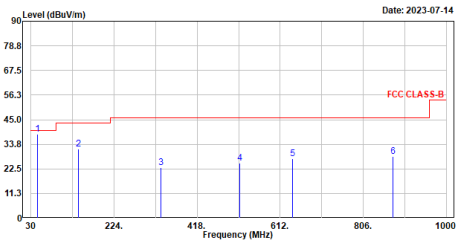
Site :HY-CB01
Condition :3m ,HORIZONTAL
Mode :TX_ax80_5775MHz
TEST BY :Caster



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	144.460	32.25	43.50	-11.25	56.29	-24.04	QP
2	361.740	23.26	46.00	-22.74	44.97	-21.71	QP
3	559.620	27.68	46.00	-18.32	44.90	-17.22	QP
4	720.640	27.66	46.00	-18.34	41.91	-14.25	QP
5	850.620	25.68	46.00	-20.32	38.28	-12.60	QP
6	999.030	26.90	54.00	-27.10	38.09	-11.19	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.

Site :HY-CB01
Condition :3m ,VERTICAL
Mode :TX_ax80_5775MHz
TEST BY :Caster

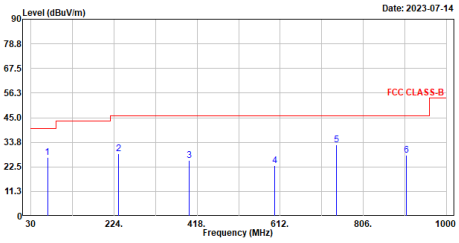


No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	44.550	38.32	40.00	-1.68	61.87	-23.55	QP
2	140.580	31.69	43.50	-11.81	56.00	-24.31	QP
3	333.610	23.16	46.00	-22.84	45.42	-22.26	QP
4	517.910	25.21	46.00	-20.79	43.09	-17.88	QP
5	640.130	27.10	46.00	-18.90	42.36	-15.26	QP
6	875.840	28.09	46.00	-17.91	40.56	-12.47	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.

Adapter #2 (M/N: PS36LA120K3000UD)

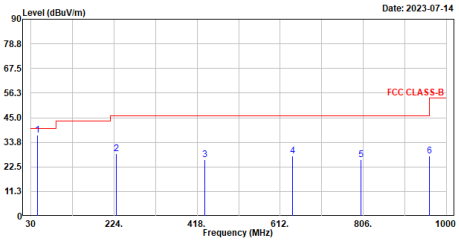
Site :HY-CB01
Condition :3m ,HORIZONTAL
Mode :TX_ax80_5775MHz
TEST BY :Caster



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	68.800	26.71	40.00	-13.29	52.60	-25.89	QP
2	234.670	28.64	46.00	-17.36	54.10	-25.46	QP
3	399.570	25.47	46.00	-20.53	46.26	-20.79	QP
4	598.420	22.99	46.00	-23.01	38.78	-15.79	QP
5	742.950	32.47	46.00	-13.53	46.05	-13.58	QP
6	906.880	27.72	46.00	-18.28	39.50	-11.78	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.

Site :HY-CB01
Condition :3m ,VERTICAL
Mode :TX_ax80_5775MHz
TEST BY :Caster

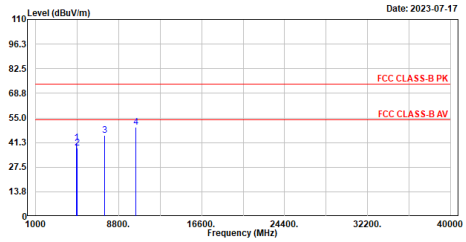


No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	44.550	37.06	40.00	-2.94	60.61	-23.55	QP
2	228.850	28.41	46.00	-17.59	54.46	-26.05	QP
3	436.430	25.93	46.00	-20.07	45.54	-19.61	QP
4	640.130	27.41	46.00	-18.59	42.67	-15.26	QP
5	800.180	25.76	46.00	-20.24	38.85	-13.09	QP
6	960.230	27.42	54.00	-26.58	38.66	-11.24	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.

Test Result of Radiated Emission co-location

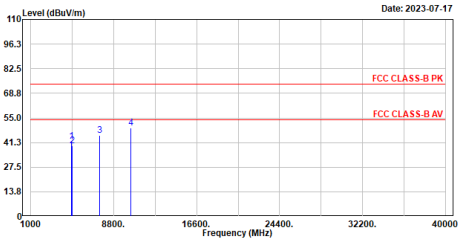
Site :HY-CB01
Condition :3m ,HORIZONTAL
Mode :TX_11b_2437M+11ax20_5220M+ble2m 2402M+5G NR N77
TEST BY :Caster



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	4804.000	41.27	74.00	-32.73	54.82	-13.55	Peak
2	4874.000	38.34	74.00	-35.66	51.68	-13.34	Peak
3	7500.000	45.35	74.00	-28.65	54.56	-9.21	Peak
4	10440.000	49.72	74.00	-24.28	58.70	-8.98	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

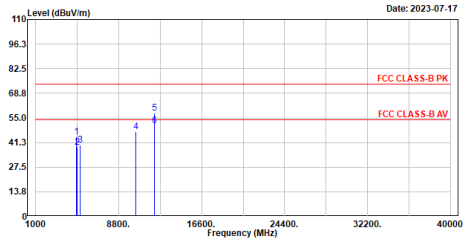
Site :HY-CB01
Condition :3m ,VERTICAL
Mode :TX_11b_2437M+11ax20_5220M+ble2m 2402M+5G NR N77
TEST BY :Caster



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	4804.000	41.87	74.00	-32.13	55.42	-13.55	Peak
2	4874.000	39.44	74.00	-34.56	52.78	-13.34	Peak
3	7500.000	45.14	74.00	-28.86	54.35	-9.21	Peak
4	10440.000	49.27	74.00	-24.73	58.25	-8.98	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

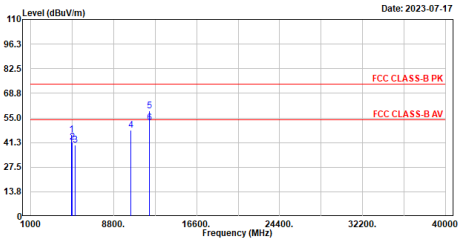
Site :HY-CB01
Condition :3m ,HORIZONTAL
Mode :TX_11b_2437M+11ax20_5220M+ble2m 2402M+LTE B38
TEST BY :Caster



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	4804.000	44.22	74.00	-29.78	57.77	-13.55	Peak
2	4874.000	38.76	74.00	-35.24	52.10	-13.34	Peak
3	5200.000	39.69	74.00	-34.31	52.85	-13.16	Peak
4	10440.000	47.18	74.00	-26.82	56.16	-8.98	Peak
5	12185.000	57.60	74.00	-16.40	64.43	-6.83	Peak
6	12185.000	50.53	54.00	-3.47	57.36	-6.83	Average

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

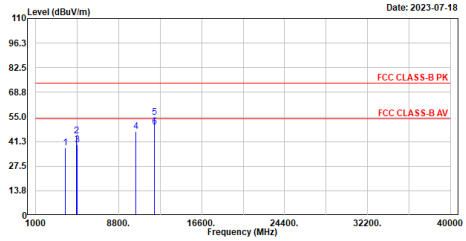
Site :HY-CB01
Condition :3m ,VERTICAL
Mode :TX_11b_2437M+11ax20_5220M+ble2m 2402M+LTE B38
TEST BY :Caster



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	4804.000	45.54	74.00	-28.46	59.09	-13.55	Peak
2	4874.000	41.56	74.00	-32.44	54.90	-13.34	Peak
3	5200.000	39.94	74.00	-34.06	53.10	-13.16	Peak
4	10440.000	48.22	74.00	-25.78	57.20	-8.98	Peak
5	12185.000	58.95	74.00	-15.05	65.78	-6.83	Peak
6	12185.000	52.41	54.00	-1.59	59.24	-6.83	Average

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

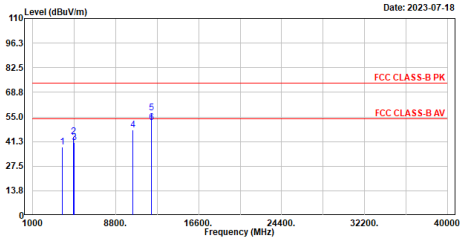
Site :HY-CB01
Condition :3m ,HORIZONTAL
Mode :TX_11b_2437M+11ax20_5220M+ble2m 2402M+WCDMA
TEST BY :Sam



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	3760.000	37.95	74.00	-36.05	53.99	-16.04	Peak
2	4804.000	44.47	74.00	-29.53	58.02	-13.55	Peak
3	4874.000	39.38	74.00	-34.62	52.72	-13.34	Peak
4	10440.000	46.97	74.00	-27.03	55.95	-8.98	Peak
5	12185.000	54.94	74.00	-19.06	61.77	-6.83	Peak
6	12185.000	49.30	54.00	-4.70	56.13	-6.83	Average

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

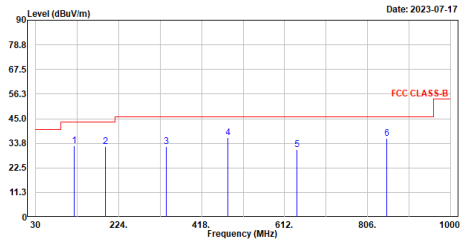
Site :HY-CB01
Condition :3m ,VERTICAL
Mode :TX_11b_2437M+11ax20_5220M+ble2m 2402M+WCDMA
TEST BY :Sam



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	3760.000	38.31	74.00	-35.69	54.35	-16.04	Peak
2	4804.000	43.98	74.00	-30.02	57.53	-13.55	Peak
3	4874.000	40.70	74.00	-33.30	54.04	-13.34	Peak
4	10440.000	47.70	74.00	-26.30	56.68	-8.98	Peak
5	12185.000	57.32	74.00	-16.68	64.15	-6.83	Peak
6	12185.000	51.80	54.00	-2.20	58.63	-6.83	Average

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

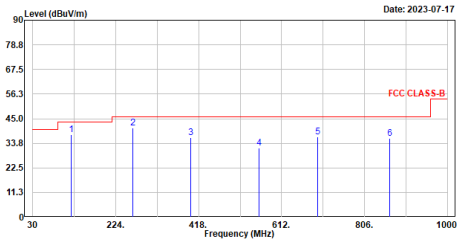
Site :HY-CB01
Condition :3m ,HORIZONTAL
Mode :TX_11b_2437M+11ax20_5220M+ble2m 2402M+5G NR N77
TEST BY :Sam



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	119.240	32.69	43.50	-10.81	58.67	-25.98	QP
2	192.960	32.37	43.50	-11.13	59.04	-26.67	QP
3	335.550	32.27	46.00	-13.73	54.51	-22.24	QP
4	480.080	36.47	46.00	-9.53	55.28	-18.81	QP
5	640.130	30.96	46.00	-15.04	46.22	-15.26	QP
6	850.620	35.95	46.00	-10.05	48.55	-12.60	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.

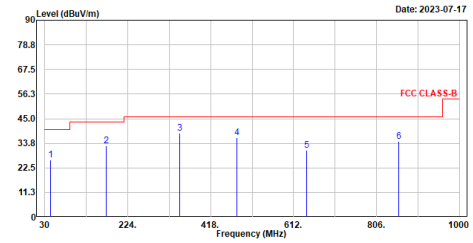
Site :HY-CB01
Condition :3m ,VERTICAL
Mode :TX_11b_2437M+11ax20_5220M+ble2m 2402M+5G NR N77
TEST BY :Sam



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	120.210	37.60	43.50	-5.90	63.56	-25.96	QP
2	263.770	40.66	46.00	-5.34	65.46	-24.80	QP
3	399.570	36.41	46.00	-9.59	57.20	-20.79	QP
4	559.620	31.71	46.00	-14.29	48.93	-17.22	QP
5	696.390	36.81	46.00	-9.19	51.38	-14.57	QP
6	865.170	35.86	46.00	-10.14	48.36	-12.50	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.

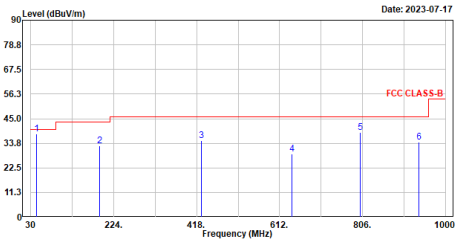
Site :HY-CB01
Condition :3m ,HORIZONTAL
Mode :TX_11b_2437M+11ax20_5220M+ble2m 2402M+LTE B38
TEST BY :Sam



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	43.580	26.26	40.00	-13.74	49.88	-23.62	QP
2	173.560	32.59	43.50	-10.91	56.83	-24.24	QP
3	345.250	38.48	46.00	-7.52	60.63	-22.15	QP
4	480.080	36.39	46.00	-9.61	55.20	-18.81	QP
5	643.040	30.47	46.00	-15.53	45.66	-15.19	QP
6	857.410	34.74	46.00	-11.26	47.31	-12.57	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.

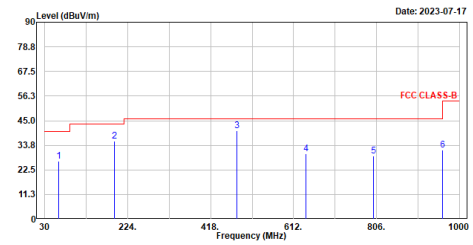
Site :HY-CB01
Condition :3m ,VERTICAL
Mode :TX_11b_2437M+11ax20_5220M+ble2m 2402M+LTE B38
TEST BY :Sam



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	43.580	38.14	40.00	-1.86	61.76	-23.62	QP
2	191.990	32.44	43.50	-11.06	59.02	-26.58	QP
3	428.670	34.96	46.00	-11.04	54.93	-19.97	QP
4	640.130	28.94	46.00	-17.06	44.20	-15.26	QP
5	800.180	38.63	46.00	-7.37	51.72	-13.09	QP
6	937.920	34.40	46.00	-11.60	45.99	-11.59	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.

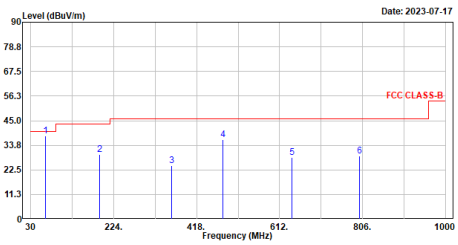
Site :HY-CB01
Condition :3m ,HORIZONTAL
Mode :TX_11b_2437M+11ax20_5220M+ble2m 2402M+WCDMA
TEST BY :Sam



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	62.980	26.37	40.00	-13.63	51.34	-24.97	QP
2	192.960	35.78	43.50	-7.72	62.45	-26.67	QP
3	480.080	40.40	46.00	-5.60	59.21	-18.81	QP
4	640.130	29.92	46.00	-16.08	45.18	-15.26	QP
5	799.210	28.72	46.00	-17.28	41.79	-13.07	QP
6	960.230	31.55	54.00	-22.45	42.79	-11.24	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.

Site :HY-CB01
Condition :3m ,VERTICAL
Mode :TX_11b_2437M+11ax20_5220M+ble2m 2402M+WCDMA
TEST BY :Sam



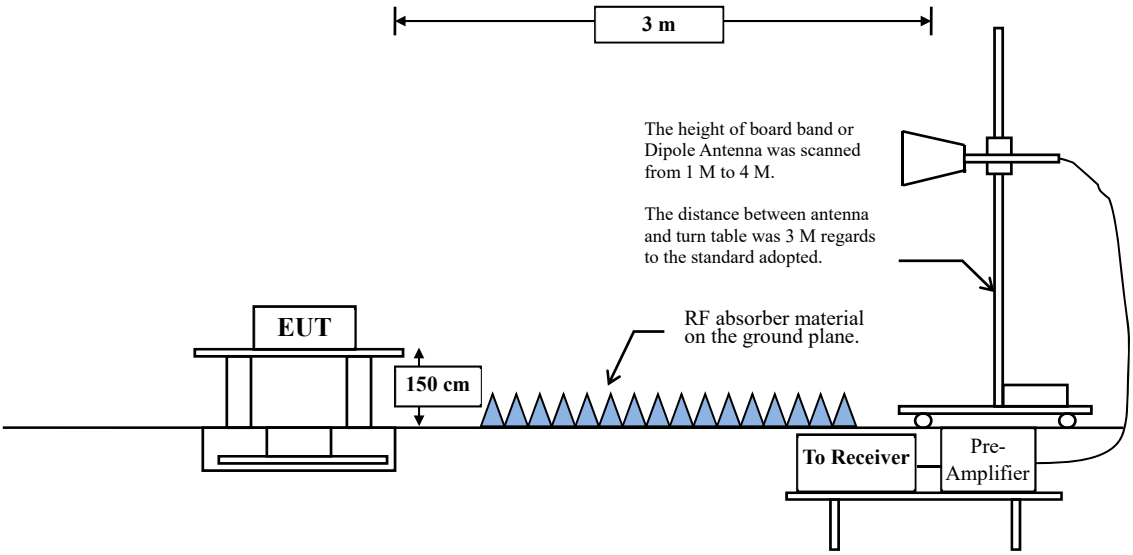
No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	63.950	38.01	40.00	-1.99	63.10	-25.09	QP
2	191.020	29.49	43.50	-14.01	55.98	-26.49	QP
3	359.800	24.32	46.00	-21.68	46.07	-21.75	QP
4	480.080	36.24	46.00	-9.76	55.05	-18.81	QP
5	640.130	28.11	46.00	-17.89	43.37	-15.26	QP
6	799.210	28.98	46.00	-17.02	42.05	-13.07	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.

6. Band Edge

6.1. Test Setup

RF Radiated Measurement:



6.2. Limits

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

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

Remarks:

1. RF Voltage (dBµV) = 20 log RF Voltage (µV).
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.

6.3. Test Procedure

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

The EUT was setup to ANSI C63.10, 2013; tested to UNII test procedure of FCC KDB-789033 for compliance to FCC 47CFR Subpart E requirements.

RBW and VBW Parameter setting:

According to KDB 789033 section II.G.5 Procedure for Unwanted Maximum Emissions Measurements above 1000 MHz.

RBW = 1 MHz.

VBW ≥ 3 MHz.

According to KDB 789033 section II.G.6 Procedures for Average Unwanted Emissions Measurements above 1000 MHz.

RBW = 1 MHz.

VBW = 10 Hz, when duty cycle ≥ 98 %

VBW ≥ 1/T, when duty cycle < 98 %

(T refers to the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.)

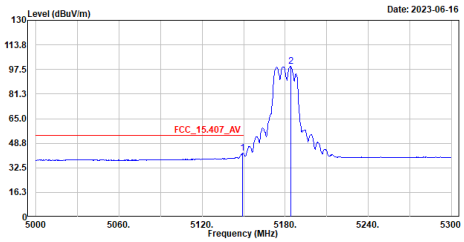
CDD Mode:

5 GHz band	Duty Cycle (%)	T (ms)	1/T (Hz)	VBW (Hz)
802.11a	89.94	3.2400	699	1000
802.11ax20	94.44	5.4400	184	200
802.11ax40	94.10	5.4200	185	200
802.11ax80	92.41	5.3600	187	200

Note: Duty Cycle Refer to Section 8.

6.4. Test Result of Band Edge

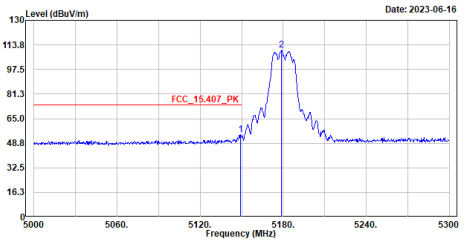
Site :HY-CB01
Condition :3m ,Horizontal
Mode :TX_a_5180MHz
TEST BY :Sam



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	5149.400	42.38	54.00	-11.62	27.51	14.87	Average
2	5183.900	99.44	------	------	84.54	14.90	Average

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

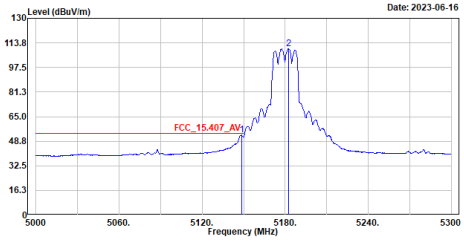
Site :HY-CB01
Condition :3m ,Horizontal
Mode :TX_a_5180MHz
TEST BY :Sam



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	5149.400	54.58	74.00	-19.42	39.71	14.87	Peak
2	5178.800	110.14	------	------	95.25	14.89	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

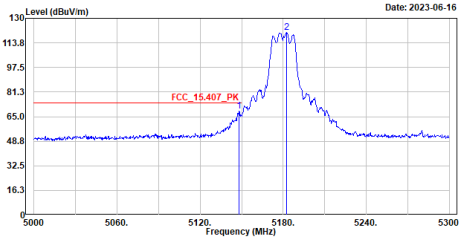
Site :HY-CB01
Condition :3m ,Vertical
Mode :TX_a_5180MHz
TEST BY :Sam



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	5148.500	52.80	54.00	-1.20	37.93	14.87	Average
2	5182.400	109.93	------	------	95.03	14.90	Average

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

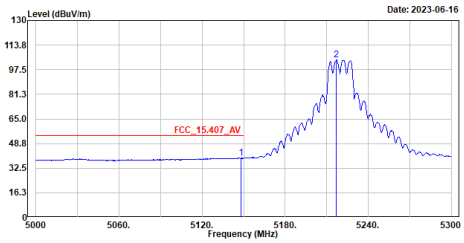
Site :HY-CB01
Condition :3m ,Vertical
Mode :TX_a_5180MHz
TEST BY :Sam



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	5148.200	68.52	74.00	-5.48	53.65	14.87	Peak
2	5182.400	120.48	------	------	105.58	14.90	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

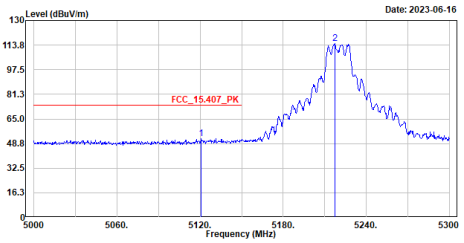
Site :HY-CB01
Condition :3m ,Horizontal
Mode :TX_a_5220MHz
TEST BY :Sam



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	5148.200	39.25	54.00	-14.75	24.38	14.87	Average
2	5216.900	103.89	------	------	88.99	14.90	Average

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

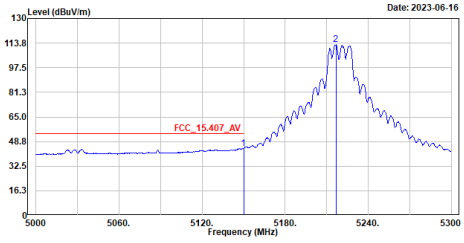
Site :HY-CB01
Condition :3m ,Horizontal
Mode :TX_a_5220MHz
TEST BY :Sam



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	5120.900	51.95	74.00	-22.05	37.13	14.82	Peak
2	5217.500	114.72	------	------	99.82	14.90	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

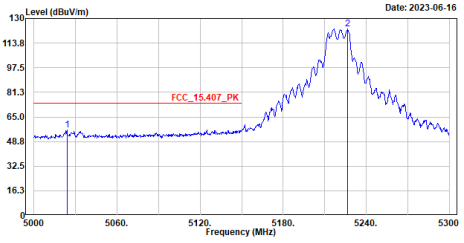
Site :HY-CB01
Condition :3m ,Vertical
Mode :TX_a_5220MHz
TEST BY :Sam



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	5150.000	44.28	54.00	-9.72	29.41	14.87	Average
2	5216.600	112.64	------	------	97.74	14.90	Average

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

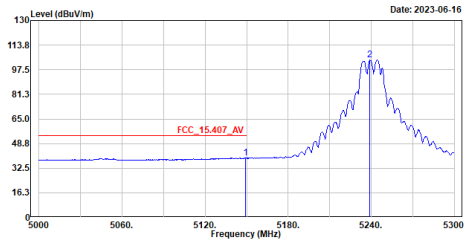
Site :HY-CB01
Condition :3m ,Vertical
Mode :TX_a_5220MHz
TEST BY :Sam



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	5024.000	56.56	74.00	-17.44	41.72	14.84	Peak
2	5226.500	123.35	------	------	108.47	14.88	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

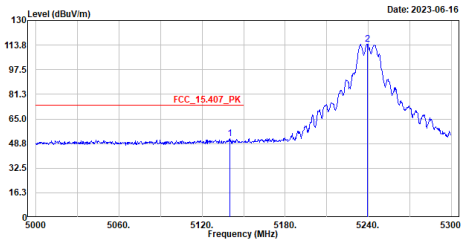
Site :HY-CB01
Condition :3m ,Horizontal
Mode :TX_a_5240MHz
TEST BY :Sam



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	5149.100	39.11	54.00	-14.89	24.24	14.87	Average
2	5239.100	103.88	------	------	89.01	14.87	Average

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

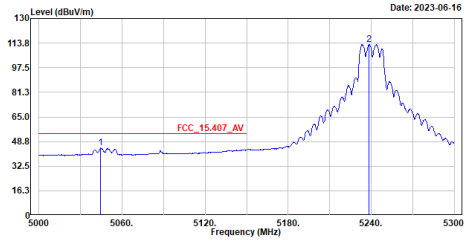
Site :HY-CB01
Condition :3m ,Horizontal
Mode :TX_a_5240MHz
TEST BY :Sam



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	5140.100	51.80	74.00	-22.20	36.95	14.85	Peak
2	5239.400	114.30	------	------	99.43	14.87	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

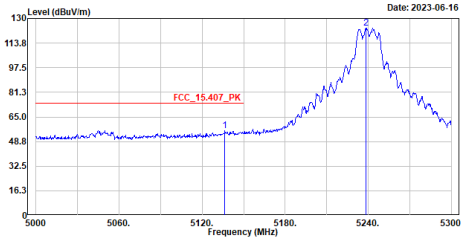
Site :HY-CB01
Condition :3m ,Vertical
Mode :TX_a_5240MHz
TEST BY :Sam



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	5044.700	44.46	54.00	-9.54	29.61	14.85	Average
2	5238.500	112.95	------	------	98.08	14.87	Average

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

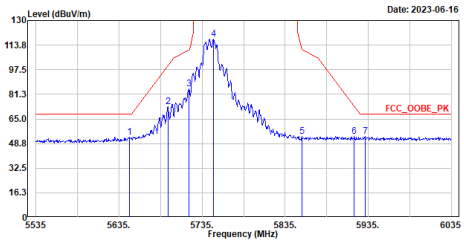
Site :HY-CB01
Condition :3m ,Vertical
Mode :TX_a_5240MHz
TEST BY :Sam



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	5136.500	55.88	74.00	-18.12	41.03	14.85	Peak
2	5238.500	123.86	------	------	108.99	14.87	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

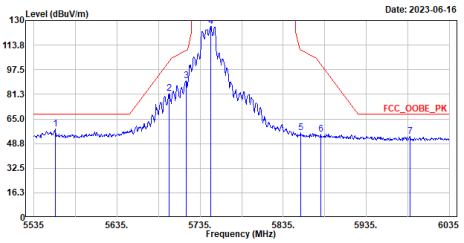
Site :HY-CB01
Condition :3m ,Horizontal
Mode :TX_a_5745MHz
TEST BY :Sam



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	5647.500	53.05	68.22	-15.17	36.88	16.17	Peak
2	5694.000	73.33	100.76	-27.43	56.72	16.61	Peak
3	5719.500	84.81	110.66	-25.85	68.13	16.68	Peak
4	5749.000	117.95	------	------	101.23	16.72	Peak
5	5855.000	53.33	110.80	-57.47	36.56	16.77	Peak
6	5918.000	53.43	73.40	-19.97	36.68	16.75	Peak
7	5931.000	53.32	68.22	-14.90	36.57	16.75	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

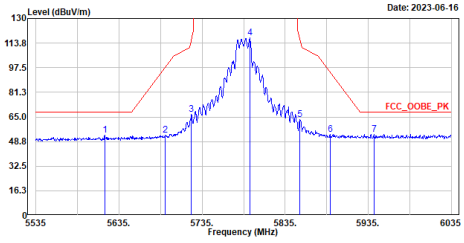
Site :HY-CB01
Condition :3m ,Vertical
Mode :TX_a_5745MHz
TEST BY :Sam



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	5560.500	58.49	68.22	-9.73	42.86	15.63	Peak
2	5698.000	81.83	103.72	-21.89	65.19	16.64	Peak
3	5718.500	90.38	110.38	-20.00	73.70	16.68	Peak
4	5748.000	126.31	------	------	109.59	16.72	Peak
5	5856.000	55.88	110.52	-54.64	39.12	16.76	Peak
6	5880.000	54.90	101.50	-46.60	38.14	16.76	Peak
7	5988.000	53.63	68.22	-14.59	37.00	16.63	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

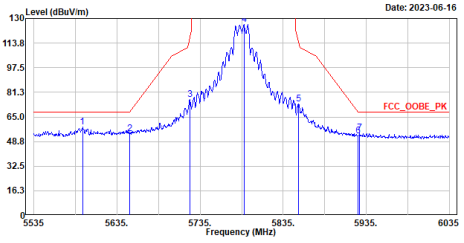
Site :HY-CB01
Condition :3m ,Horizontal
Mode :TX_a_5785MHz
TEST BY :Sam



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	5618.000	52.93	68.22	-15.29	36.99	15.94	Peak
2	5691.000	53.16	98.54	-45.38	36.57	16.59	Peak
3	5722.000	66.51	115.36	-48.85	49.83	16.68	Peak
4	5792.500	117.20	------	------	100.46	16.74	Peak
5	5852.500	63.49	116.50	-53.01	46.72	16.77	Peak
6	5889.500	53.34	94.48	-41.14	36.58	16.76	Peak
7	5942.000	53.39	68.22	-14.83	36.65	16.74	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

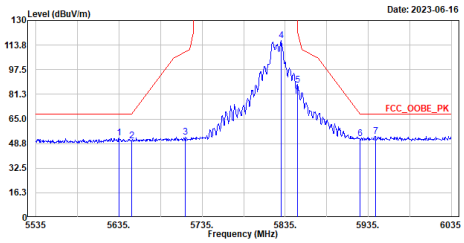
Site :HY-CB01
Condition :3m ,Vertical
Mode :TX_a_5785MHz
TEST BY :Sam



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	5593.500	58.27	68.22	-9.95	42.51	15.76	Peak
2	5650.000	53.96	68.23	-14.27	37.77	16.19	Peak
3	5722.500	76.62	116.50	-39.88	59.94	16.68	Peak
4	5788.000	126.11	------	------	109.38	16.73	Peak
5	5853.500	73.79	114.22	-40.43	57.02	16.77	Peak
6	5925.000	52.57	68.23	-15.66	35.82	16.75	Peak
7	5927.000	54.35	68.22	-13.87	37.60	16.75	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

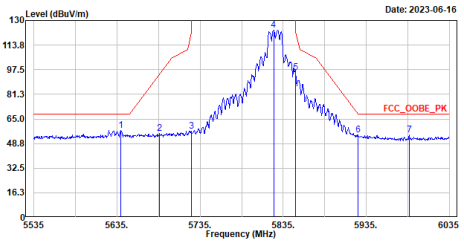
Site :HY-CB01
Condition :3m ,Horizontal
Mode :TX_a_5825MHz
TEST BY :Sam



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	5635.000	52.26	68.22	-15.96	36.18	16.08	Peak
2	5650.000	50.30	68.23	-17.93	34.11	16.19	Peak
3	5714.500	53.14	109.26	-56.12	36.47	16.67	Peak
4	5830.000	116.63	------	------	99.87	16.76	Peak
5	5850.000	87.43	122.20	-34.77	70.66	16.77	Peak
6	5925.000	51.95	68.23	-16.28	35.20	16.75	Peak
7	5943.500	53.57	68.22	-14.65	36.83	16.74	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

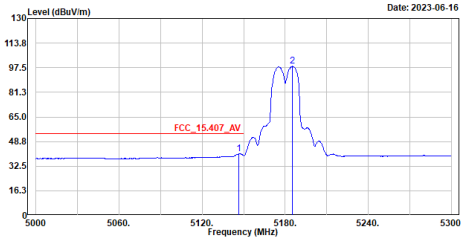
Site :HY-CB01
Condition :3m ,Vertical
Mode :TX_a_5825MHz
TEST BY :Sam



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	5640.000	57.53	68.22	-10.69	41.42	16.11	Peak
2	5686.500	55.66	95.22	-39.56	39.10	16.56	Peak
3	5724.500	57.12	121.06	-63.94	40.44	16.68	Peak
4	5823.500	123.71	------	------	106.96	16.75	Peak
5	5850.000	95.56	122.20	-26.64	78.79	16.77	Peak
6	5925.000	54.52	68.23	-13.71	37.77	16.75	Peak
7	5986.500	54.36	68.22	-13.86	37.72	16.64	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

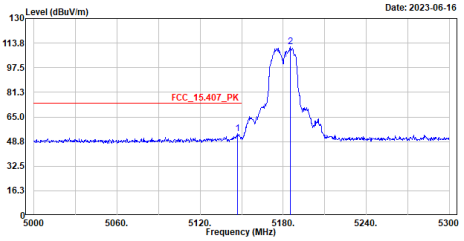
Site :HY-CB01
Condition :3m ,Horizontal
Mode :TX_ax20_5180MHz
TEST BY :Sam



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	5146.700	40.70	54.00	-13.30	25.84	14.86	Average
2	5185.400	98.42	------	------	83.52	14.90	Average

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

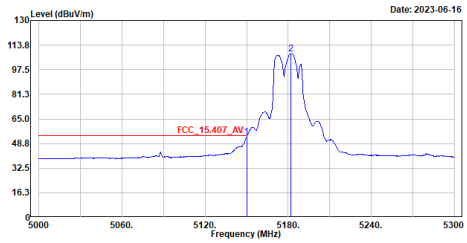
Site :HY-CB01
Condition :3m ,Horizontal
Mode :TX_ax20_5180MHz
TEST BY :Sam



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	5147.300	53.85	74.00	-20.15	38.98	14.87	Peak
2	5185.100	111.32	------	------	96.42	14.90	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

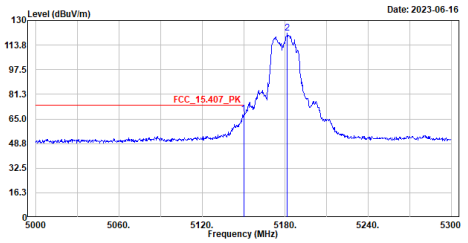
Site :HY-CB01
Condition :3m ,Vertical
Mode :TX_ax20_5180MHz
TEST BY :Sam



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	5150.000	52.99	54.00	-1.01	38.12	14.87	Average
2	5182.100	108.03	------	------	93.13	14.90	Average

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

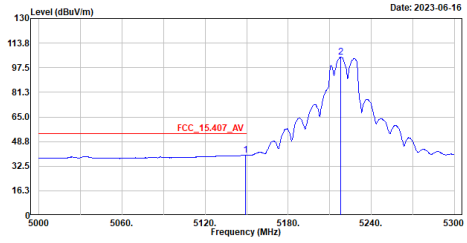
Site :HY-CB01
Condition :3m ,Vertical
Mode :TX_ax20_5180MHz
TEST BY :Sam



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	5150.000	67.98	74.00	-6.02	53.11	14.87	Peak
2	5181.500	121.49	------	------	106.59	14.90	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

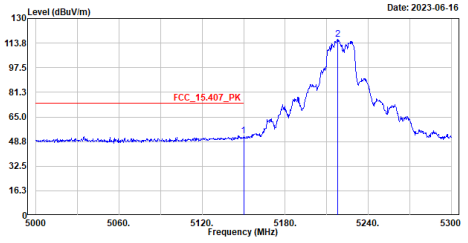
Site :HY-CB01
Condition :3m ,Horizontal
Mode :TX_ax20_5220MHz
TEST BY :Sam



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	5149.400	39.91	54.00	-14.09	25.04	14.87	Average
2	5218.100	104.47	------	------	89.58	14.89	Average

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

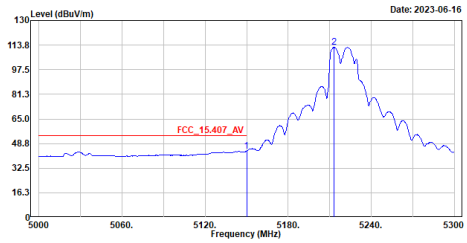
Site :HY-CB01
Condition :3m ,Horizontal
Mode :TX_ax20_5220MHz
TEST BY :Sam



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	5150.000	52.56	74.00	-21.44	37.69	14.87	Peak
2	5218.100	116.17	------	------	101.28	14.89	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

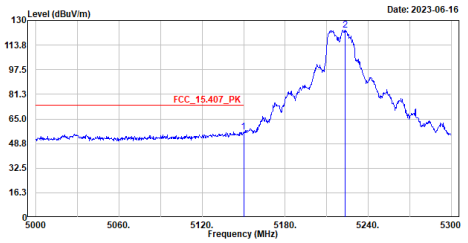
Site :HY-CB01
Condition :3m ,Vertical
Mode :TX_ax20_5220MHz
TEST BY :Sam



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	5150.000	43.72	54.00	-10.28	28.85	14.87	Average
2	5213.000	112.23	------	------	97.34	14.89	Average

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

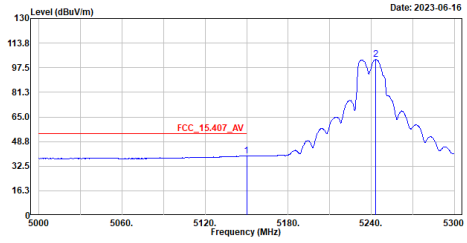
Site :HY-CB01
Condition :3m ,Vertical
Mode :TX_ax20_5220MHz
TEST BY :Sam



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	5150.000	56.56	74.00	-17.44	41.69	14.87	Peak
2	5223.200	123.74	------	------	108.86	14.88	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

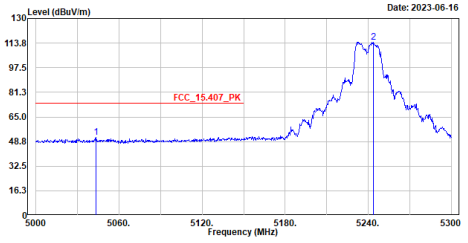
Site :HY-CB01
Condition :3m ,Horizontal
Mode :TX_ax20_5240MHz
TEST BY :Sam



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	5150.000	39.21	54.00	-14.79	24.34	14.87	Average
2	5243.300	102.79	------	------	87.93	14.86	Average

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

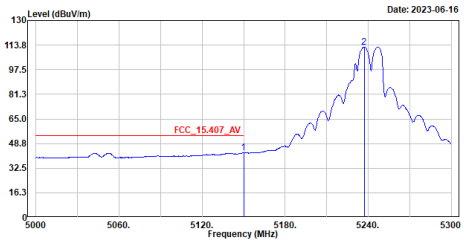
Site :HY-CB01
Condition :3m ,Horizontal
Mode :TX_ax20_5240MHz
TEST BY :Sam



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	5043.200	51.64	74.00	-22.36	36.79	14.85	Peak
2	5243.900	114.49	------	------	99.63	14.86	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

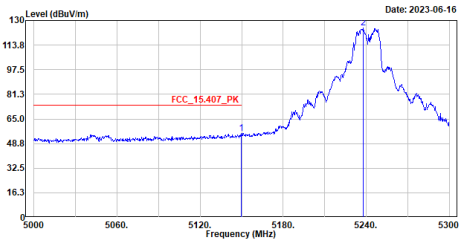
Site :HY-CB01
Condition :3m ,Vertical
Mode :TX_ax20_5240MHz
TEST BY :Sam



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	5150.000	42.64	54.00	-11.36	27.77	14.87	Average
2	5237.000	112.52	------	------	97.64	14.88	Average

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

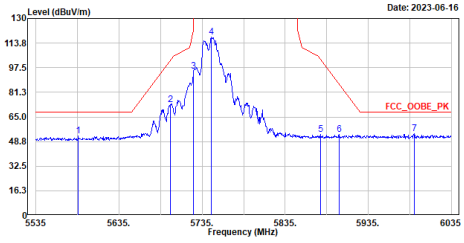
Site :HY-CB01
Condition :3m ,Vertical
Mode :TX_ax20_5240MHz
TEST BY :Sam



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	5149.700	55.52	74.00	-18.48	40.65	14.87	Peak
2	5237.900	124.94	------	------	110.07	14.87	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

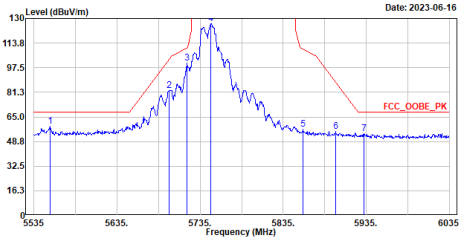
Site :HY-CB01
Condition :3m ,Horizontal
Mode :TX_ax20_5745MHz
TEST BY :Sam



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	5586.000	52.29	68.22	-15.93	36.57	15.72	Peak
2	5696.500	73.03	102.61	-29.58	56.40	16.63	Peak
3	5725.000	95.17	122.20	-27.03	78.49	16.68	Peak
4	5746.000	117.77	------	------	101.06	16.71	Peak
5	5878.000	53.40	102.98	-49.58	36.64	16.76	Peak
6	5900.000	53.37	86.71	-33.34	36.62	16.75	Peak
7	5990.000	53.97	68.22	-14.25	37.35	16.62	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

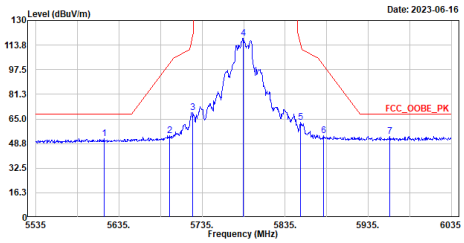
Site :HY-CB01
Condition :3m ,Vertical
Mode :TX_ax20_5745MHz
TEST BY :Sam



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	5554.500	58.67	68.22	-9.55	43.05	15.62	Peak
2	5698.000	82.63	103.72	-21.09	65.99	16.64	Peak
3	5719.000	100.43	110.52	-10.09	83.75	16.68	Peak
4	5747.500	126.57	------	------	109.86	16.71	Peak
5	5859.000	57.13	109.68	-52.55	40.37	16.76	Peak
6	5898.500	55.38	87.82	-32.44	38.63	16.75	Peak
7	5932.500	53.76	68.22	-14.46	37.01	16.75	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

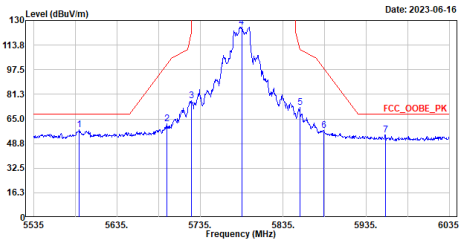
Site :HY-CB01
Condition :3m ,Horizontal
Mode :TX_ax20_5785MHz
TEST BY :Sam



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	5617.000	52.23	68.22	-15.99	36.29	15.94	Peak
2	5696.000	54.01	102.24	-48.23	37.38	16.63	Peak
3	5724.000	69.08	119.92	-50.84	52.40	16.68	Peak
4	5784.500	118.39	------	------	101.66	16.73	Peak
5	5853.500	62.99	114.22	-51.23	46.22	16.77	Peak
6	5881.500	53.96	100.39	-46.43	37.20	16.76	Peak
7	5960.500	53.49	68.22	-14.73	36.79	16.70	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

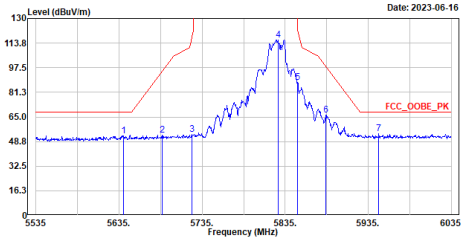
Site :HY-CB01
Condition :3m ,Vertical
Mode :TX_ax20_5785MHz
TEST BY :Sam



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	5589.500	57.69	68.22	-10.53	41.95	15.74	Peak
2	5695.000	62.06	101.50	-39.44	45.44	16.62	Peak
3	5724.500	77.12	121.06	-43.94	60.44	16.68	Peak
4	5785.000	125.73	------	------	109.00	16.73	Peak
5	5855.000	72.78	110.80	-38.02	56.01	16.77	Peak
6	5883.500	57.48	98.91	-41.43	40.72	16.76	Peak
7	5958.000	54.45	68.22	-13.77	37.75	16.70	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

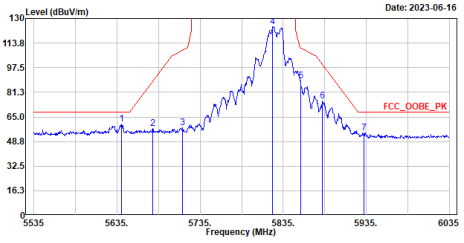
Site :HY-CB01
Condition :3m ,Horizontal
Mode :TX_ax20_5825MHz
TEST BY :Sam



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	5640.500	52.72	68.22	-15.50	36.60	16.12	Peak
2	5687.000	53.07	95.59	-42.52	36.50	16.57	Peak
3	5722.500	53.23	116.50	-63.27	36.55	16.68	Peak
4	5826.500	115.98	------	------	99.22	16.76	Peak
5	5850.000	87.65	122.20	-34.55	70.88	16.77	Peak
6	5883.500	66.05	98.91	-32.86	49.29	16.76	Peak
7	5947.500	53.88	68.22	-14.34	37.15	16.73	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

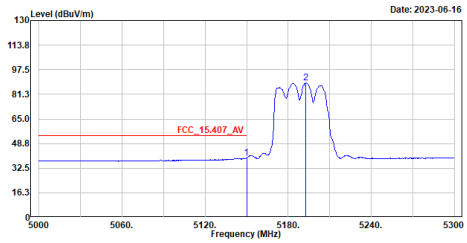
Site :HY-CB01
Condition :3m ,Vertical
Mode :TX_ax20_5825MHz
TEST BY :Sam



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	5640.500	60.16	68.22	-8.06	44.04	16.12	Peak
2	5678.000	57.64	88.93	-31.29	41.14	16.50	Peak
3	5713.500	57.80	108.98	-51.18	41.13	16.67	Peak
4	5822.500	124.68	------	------	107.93	16.75	Peak
5	5856.000	88.87	110.52	-21.65	72.11	16.76	Peak
6	5882.500	75.43	99.65	-24.22	58.67	16.76	Peak
7	5932.500	54.62	68.22	-13.60	37.87	16.75	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

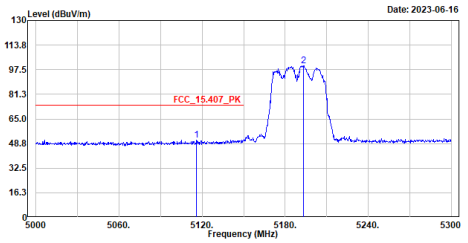
Site :HY-CB01
Condition :3m ,Horizontal
Mode :TX_ax40_5190MHz
TEST BY :Caster



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	5150.000	39.20	54.00	-14.80	24.33	14.87	Average
2	5192.600	88.63	------	------	73.72	14.91	Average

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

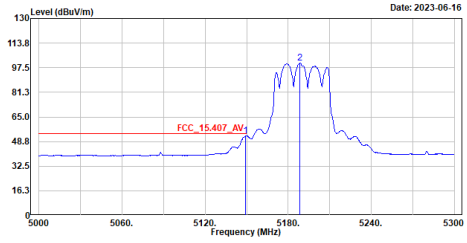
Site :HY-CB01
Condition :3m ,Horizontal
Mode :TX_ax40_5190MHz
TEST BY :Caster



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	5116.100	50.99	74.00	-23.01	36.17	14.82	Peak
2	5193.200	100.19	------	------	85.28	14.91	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

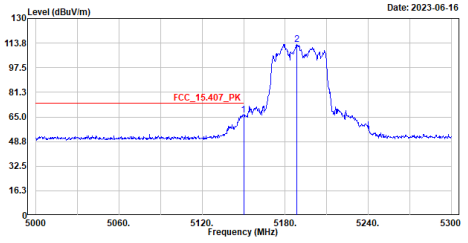
Site :HY-CB01
Condition :3m ,Vertical
Mode :TX_ax40_5190MHz
TEST BY :Caster



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	5149.400	52.51	54.00	-1.49	37.64	14.87	Average
2	5188.400	100.54	------	------	85.63	14.91	Average

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

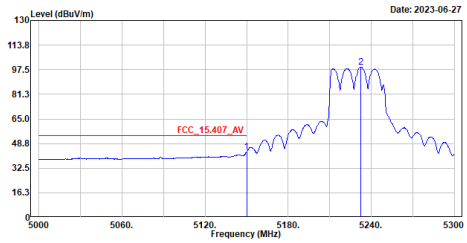
Site :HY-CB01
Condition :3m ,Vertical
Mode :TX_ax40_5190MHz
TEST BY :Caster



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	5150.000	66.42	74.00	-7.58	51.55	14.87	Peak
2	5188.400	112.76	------	------	97.85	14.91	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

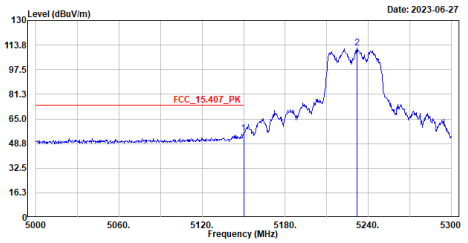
Site :HY-CB01
Condition :3m ,Horizontal
Mode :TX_ax40_5230MHz
TEST BY :Sam



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	5150.000	43.29	54.00	-10.71	28.51	14.78	Average
2	5232.500	99.15	------	------	84.38	14.77	Average

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

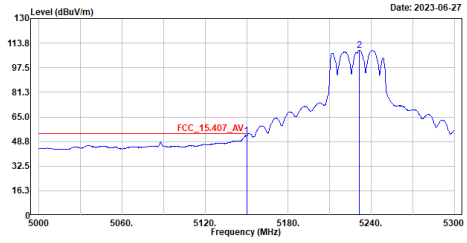
Site :HY-CB01
Condition :3m ,Horizontal
Mode :TX_ax40_5230MHz
TEST BY :Sam



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	5150.000	55.43	74.00	-18.57	40.65	14.78	Peak
2	5231.900	111.77	------	------	96.99	14.78	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

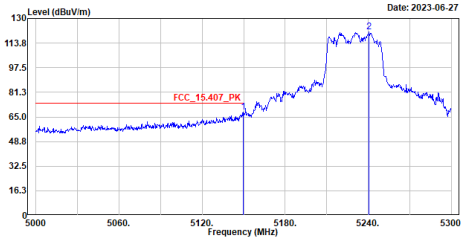
Site :HY-CB01
Condition :3m ,Vertical
Mode :TX_ax40_5230MHz
TEST BY :Sam



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	5150.000	52.58	54.00	-1.42	37.80	14.78	Average
2	5231.300	109.08	------	------	94.30	14.78	Average

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

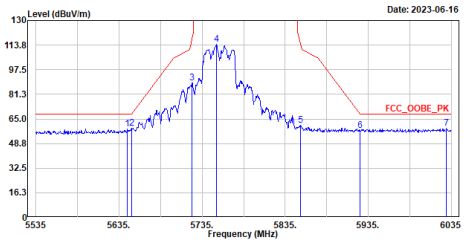
Site :HY-CB01
Condition :3m ,Vertical
Mode :TX_ax40_5230MHz
TEST BY :Sam



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	5149.700	68.12	74.00	-5.88	53.34	14.78	Peak
2	5240.600	121.21	------	------	106.44	14.77	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

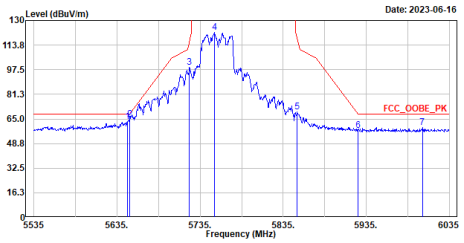
Site :HY-CB01
Condition :3m ,Horizontal
Mode :TX_ax40_5755MHz
TEST BY :Caster



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	5645.000	58.31	68.22	-9.91	42.16	16.15	Peak
2	5650.000	58.94	68.23	-9.29	42.75	16.19	Peak
3	5723.000	88.83	117.64	-28.81	72.15	16.68	Peak
4	5752.000	114.08	------	------	97.36	16.72	Peak
5	5853.500	60.79	114.22	-53.43	44.02	16.77	Peak
6	5925.000	57.31	68.23	-10.92	40.56	16.75	Peak
7	6029.000	58.89	68.22	-9.33	42.08	16.81	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

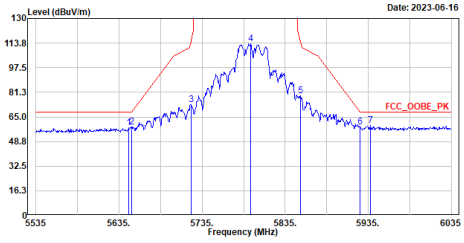
Site :HY-CB01
Condition :3m ,VERTICAL
Mode :TX_ax40_5755MHz
TEST BY :Caster



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	5647.500	63.43	68.22	-4.79	47.26	16.17	Peak
2	5650.000	64.75	68.23	-3.48	48.56	16.19	Peak
3	5722.000	99.31	115.36	-16.05	82.63	16.68	Peak
4	5752.500	121.99	------	------	105.27	16.72	Peak
5	5852.000	69.77	117.64	-47.87	53.00	16.77	Peak
6	5925.000	57.41	68.23	-10.82	40.66	16.75	Peak
7	6002.500	59.26	68.22	-8.96	42.65	16.61	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

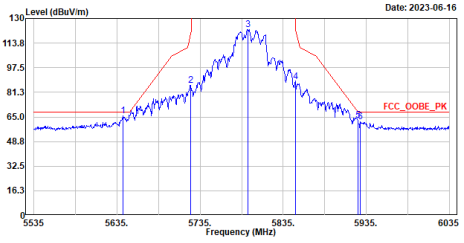
Site :HY-CB01
Condition :3m ,Horizontal
Mode :TX_ax40_5795MHz
TEST BY :Caster



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	5647.000	57.93	68.22	-10.29	41.76	16.17	Peak
2	5650.000	58.28	68.23	-9.95	42.09	16.19	Peak
3	5721.500	72.98	114.22	-41.24	56.30	16.68	Peak
4	5793.500	113.31	------	------	96.57	16.74	Peak
5	5853.500	78.87	114.22	-35.35	62.10	16.77	Peak
6	5925.000	58.35	68.23	-9.88	41.60	16.75	Peak
7	5938.000	59.37	68.22	-8.85	42.63	16.74	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

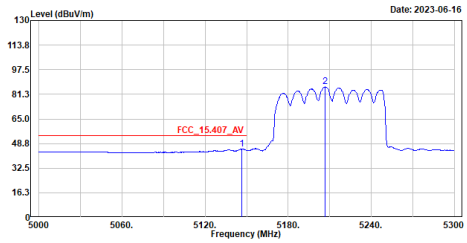
Site :HY-CB01
Condition :3m ,Vertical
Mode :TX_ax40_5795MHz
TEST BY :Caster



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	5642.000	65.74	68.22	-2.48	49.61	16.13	Peak
2	5723.500	85.67	118.78	-33.11	68.99	16.68	Peak
3	5793.000	122.79	------	------	106.05	16.74	Peak
4	5850.000	88.52	122.20	-33.68	71.75	16.77	Peak
5	5925.000	62.82	68.23	-5.41	46.07	16.75	Peak
6	5928.000	61.76	68.22	-6.46	45.01	16.75	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

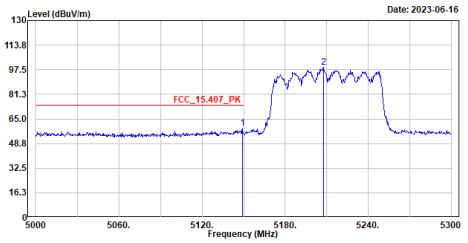
Site :HY-CB01
Condition :3m ,Horizontal
Mode :TX_ax80_5210MHz
TEST BY :Caster



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	5146.700	45.20	54.00	-8.80	30.34	14.86	Average
2	5206.700	86.24	------	------	71.33	14.91	Average

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

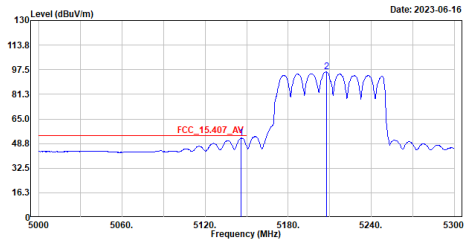
Site :HY-CB01
Condition :3m ,Horizontal
Mode :TX_ax80_5210MHz
TEST BY :Caster



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	5149.100	58.94	74.00	-15.06	44.07	14.87	Peak
2	5207.600	99.31	------	------	84.41	14.90	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

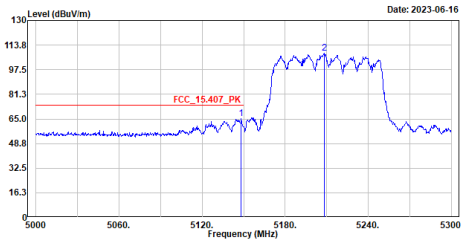
Site :HY-CB01
Condition :3m ,Vertical
Mode :TX_ax80_5210MHz
TEST BY :Caster



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	5146.100	52.31	54.00	-1.69	37.46	14.85	Average
2	5207.600	96.09	------	------	81.19	14.90	Average

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

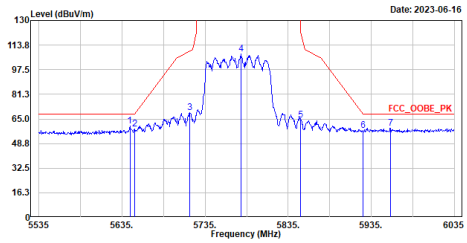
Site :HY-CB01
Condition :3m ,Vertical
Mode :TX_ax80_5210MHz
TEST BY :Caster



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	5148.200	65.42	74.00	-8.58	50.55	14.87	Peak
2	5208.500	108.41	------	------	93.51	14.90	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

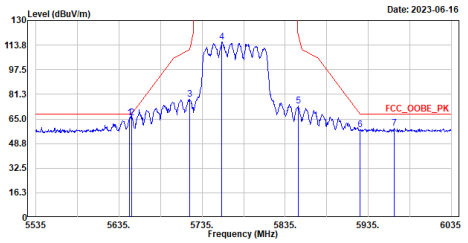
Site :HY-CB01
Condition :3m ,Horizontal
Mode :TX_ax80_5775MHz
TEST BY :Caster



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	5644.500	60.19	68.22	-8.03	44.04	16.15	Peak
2	5650.000	58.22	68.23	-10.01	42.03	16.19	Peak
3	5716.500	69.02	109.82	-40.80	52.35	16.67	Peak
4	5778.000	107.74	------	------	91.01	16.73	Peak
5	5850.000	64.38	122.20	-57.82	47.61	16.77	Peak
6	5925.000	57.42	68.23	-10.81	40.67	16.75	Peak
7	5958.000	58.97	68.22	-9.25	42.27	16.70	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

Site :HY-CB01
Condition :3m ,Vertical
Mode :TX_ax80_5775MHz
TEST BY :Caster

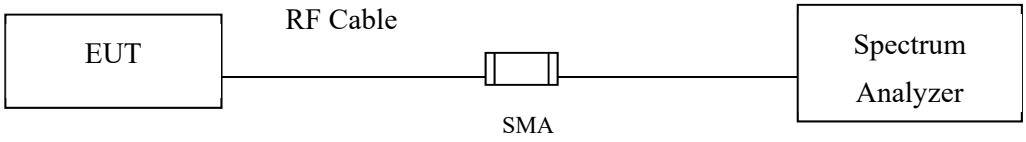


No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	5648.000	65.74	68.22	-2.48	49.57	16.17	Peak
2	5650.000	65.86	68.23	-2.37	49.67	16.19	Peak
3	5720.000	77.78	110.80	-33.02	61.10	16.68	Peak
4	5759.000	115.57	------	------	98.86	16.71	Peak
5	5850.500	73.73	121.06	-47.33	56.96	16.77	Peak
6	5925.000	57.65	68.23	-10.58	40.90	16.75	Peak
7	5966.500	58.95	68.22	-9.27	42.26	16.69	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

7. Occupied Bandwidth

7.1. Test Setup



7.2. Limits

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

7.3. Test Procedure

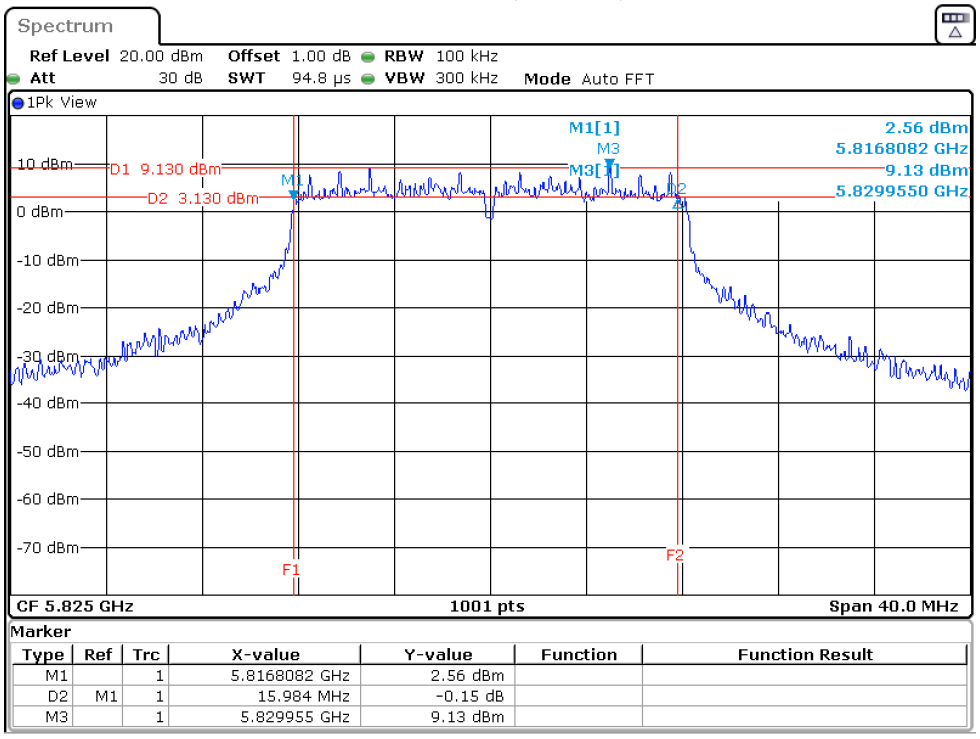
The EUT was setup to ANSI C63.10, 2013; tested to UNII test procedure of FCC KDB-789033 for compliance to FCC 47CFR Subpart E requirements.

7.4. Test Result of Occupied Bandwidth

Product : Peplink Pepwave Wireless Product
Test Item : Occupied Bandwidth Data
Test Mode : Transmit (802.11a-CDD)_Master
Test Date : 2023/06/21

Channel No.	Chain	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
149	A	5745	15504	>500	Pass
157	A	5785	15544	>500	Pass
165	A	5825	15984	>500	Pass
149	B	5745	15704	>500	Pass
157	B	5785	15904	>500	Pass
165	B	5825	15304	>500	Pass

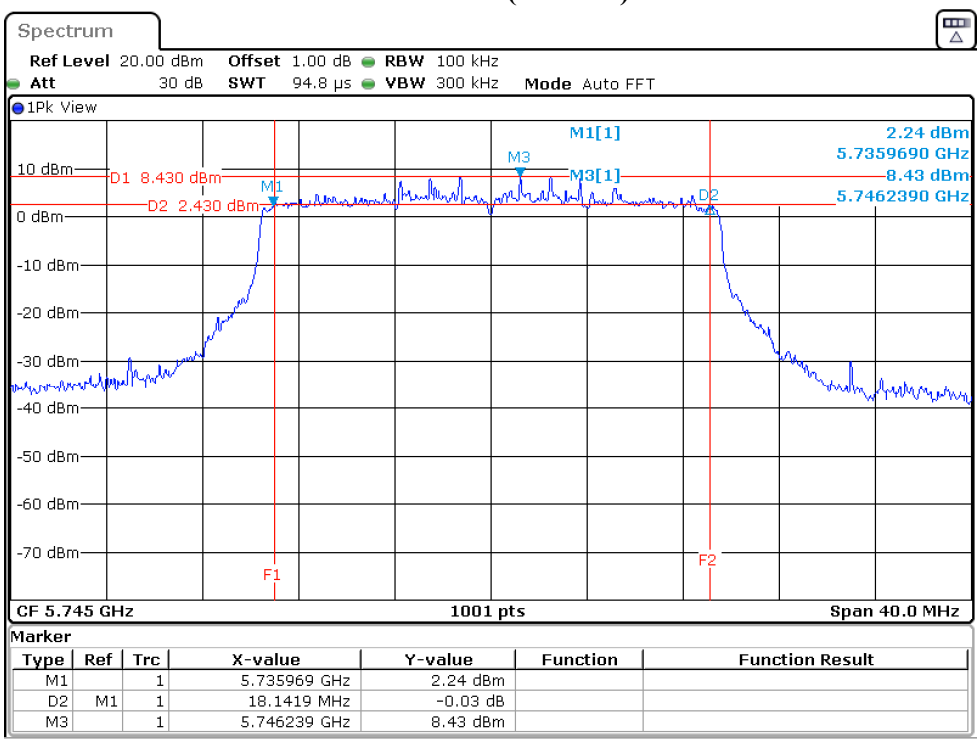
Channel 165 (Chain A):



Product : Peplink Pepwave Wireless Product
Test Item : Occupied Bandwidth Data
Test Mode : Transmit (802.11ax-20BW-CDD)_Master
Test Date : 2023/06/21

Channel No.	Chain	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
149	A	5745	18141	>500	Pass
157	A	5785	17502	>500	Pass
165	A	5825	17702	>500	Pass
149	B	5745	15624	>500	Pass
157	B	5785	17542	>500	Pass
165	B	5825	17542	>500	Pass

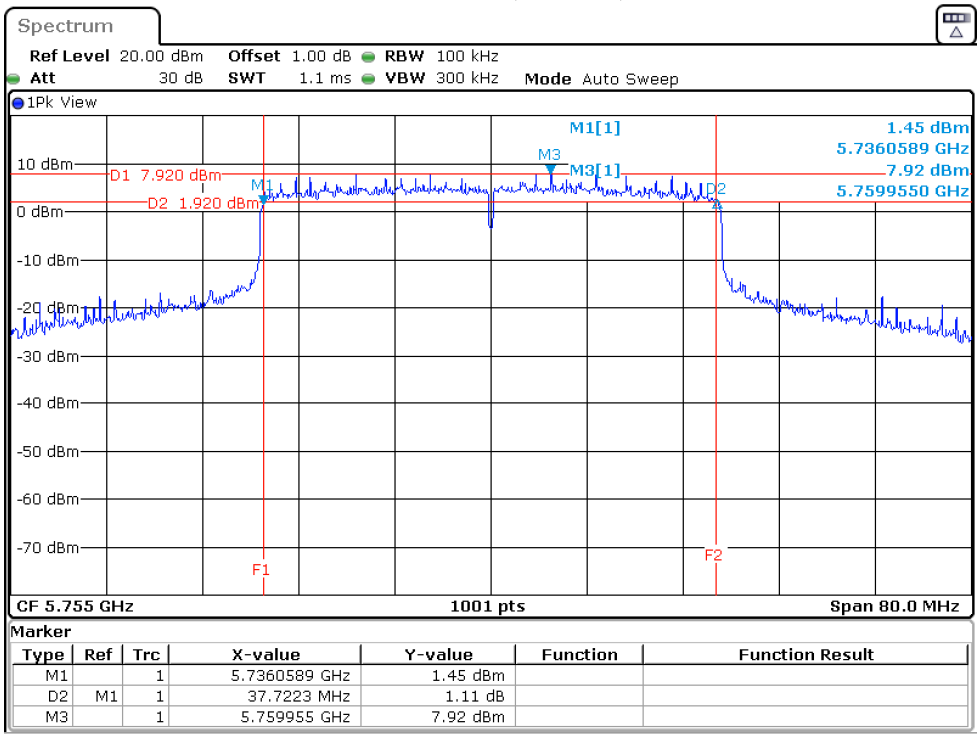
Channel 149 (Chain A):



Product : Peplink Pepwave Wireless Product
Test Item : Occupied Bandwidth Data
Test Mode : Transmit (802.11ax-40BW-CDD)_Master
Test Date : 2023/06/21

Channel No.	Chain	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
151	A	5755	37722	>500	Pass
159	A	5795	37642	>500	Pass
151	B	5755	37242	>500	Pass
159	B	5795	37562	>500	Pass

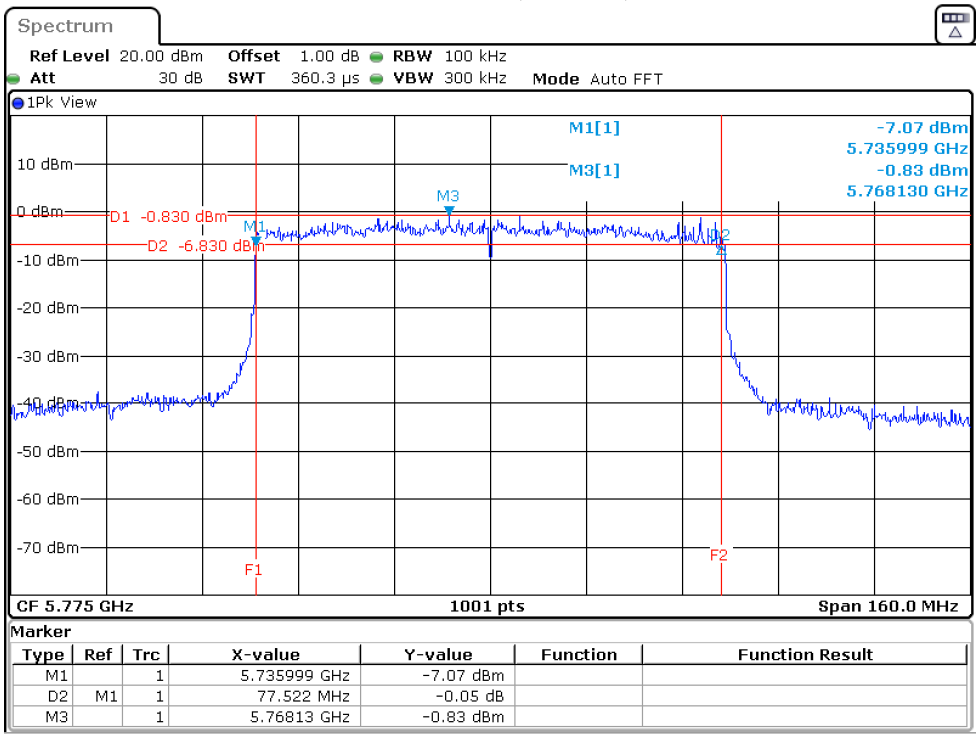
Channel 151 (Chain A):



Product : Peplink Pepwave Wireless Product
Test Item : Occupied Bandwidth Data
Test Mode : Transmit (802.11ax-80BW-CDD)_Master
Test Date : 2023/06/21

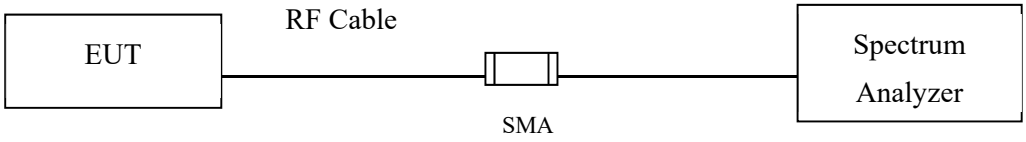
Channel No.	Chain	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
155	A	5775	68092	>500	Pass
155	B	5775	77522	>500	Pass

Channel 155 (Chain B)



8. Duty Cycle

8.1. Test Setup



8.2. Test Procedure

The EUT was setup according to ANSI C63.10 2013; tested according to U-NII test procedure of KDB789033 for compliance to FCC 47CFR 15.407 requirements.

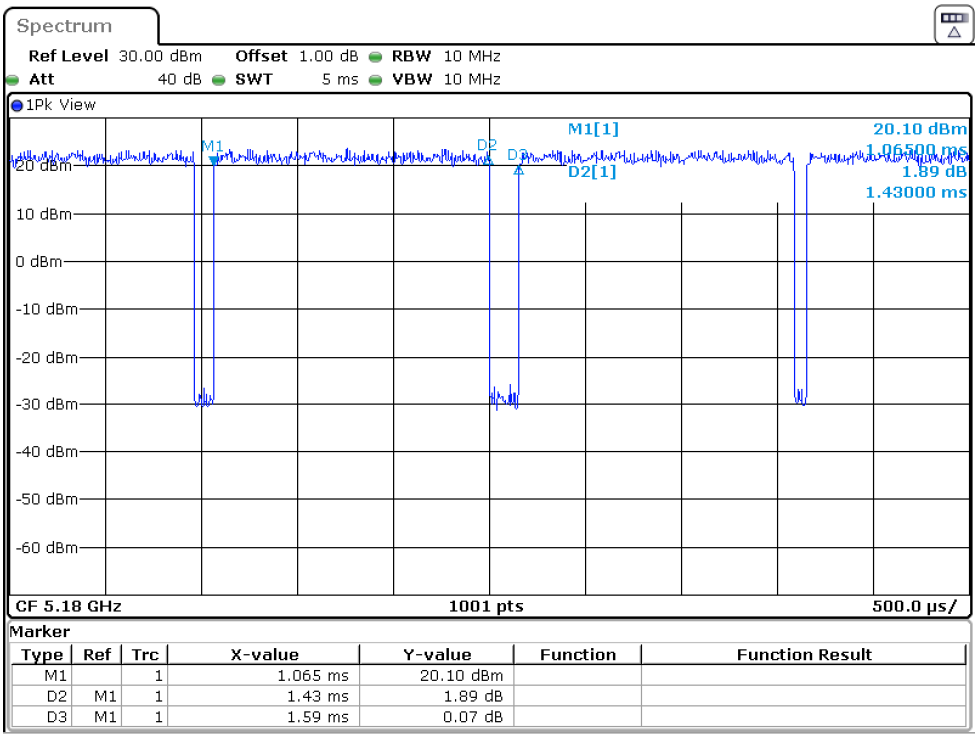
8.3. Test Result of Duty Cycle

Product : Peplink Pepwave Wireless Product
Test Item : Duty Cycle
Test Mode : Transmit-CDD mode

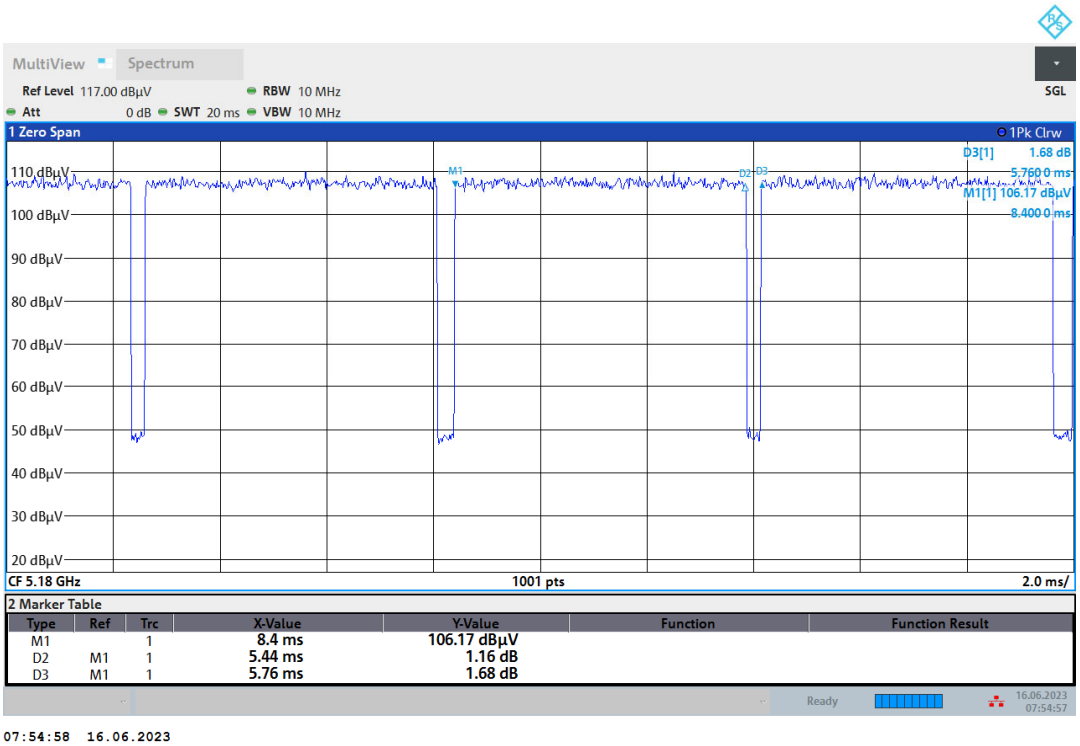
Duty Cycle Formula:
Duty Cycle = Ton / (Ton + Toff)
Duty Factor = 10 Log (1/Duty Cycle)
Results:

5 GHz band	Ton (ms)	Ton + Toff (ms)	Duty Cycle (%)	Duty Factor (dB)
802.11a	1.4300	1.5900	89.94	0.46
802.11ax20	5.4400	5.7600	94.44	0.25
802.11ax40	5.4200	5.7600	94.10	0.26
802.11ax80	5.3600	5.8000	92.41	0.34

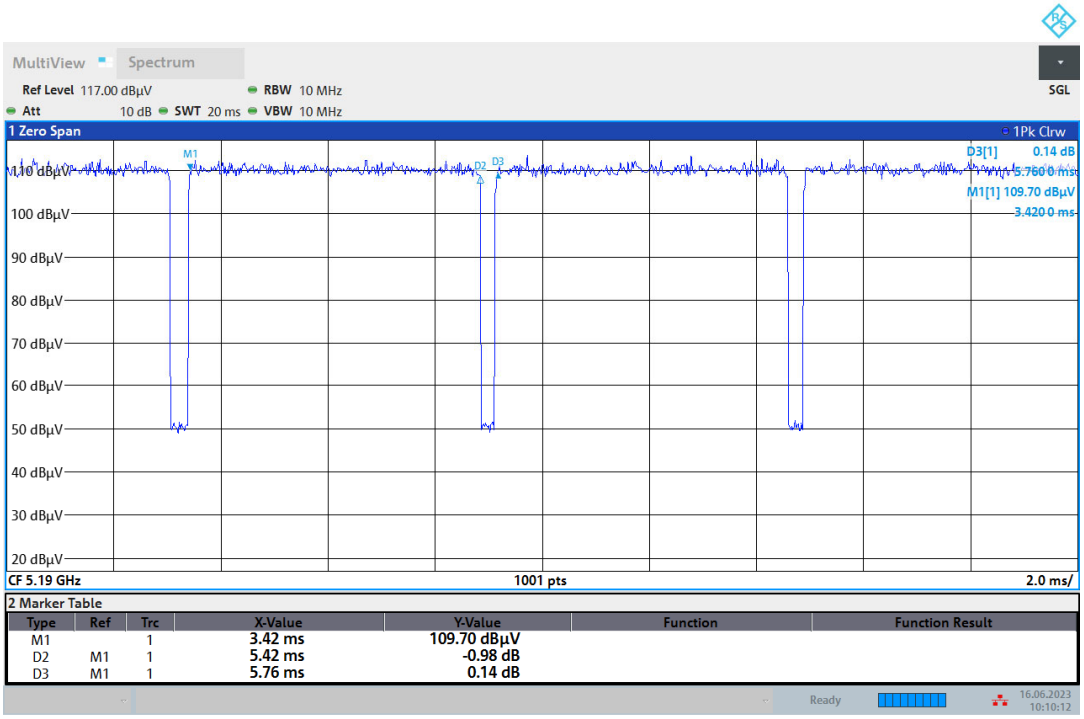
802.11a



802.11ax20

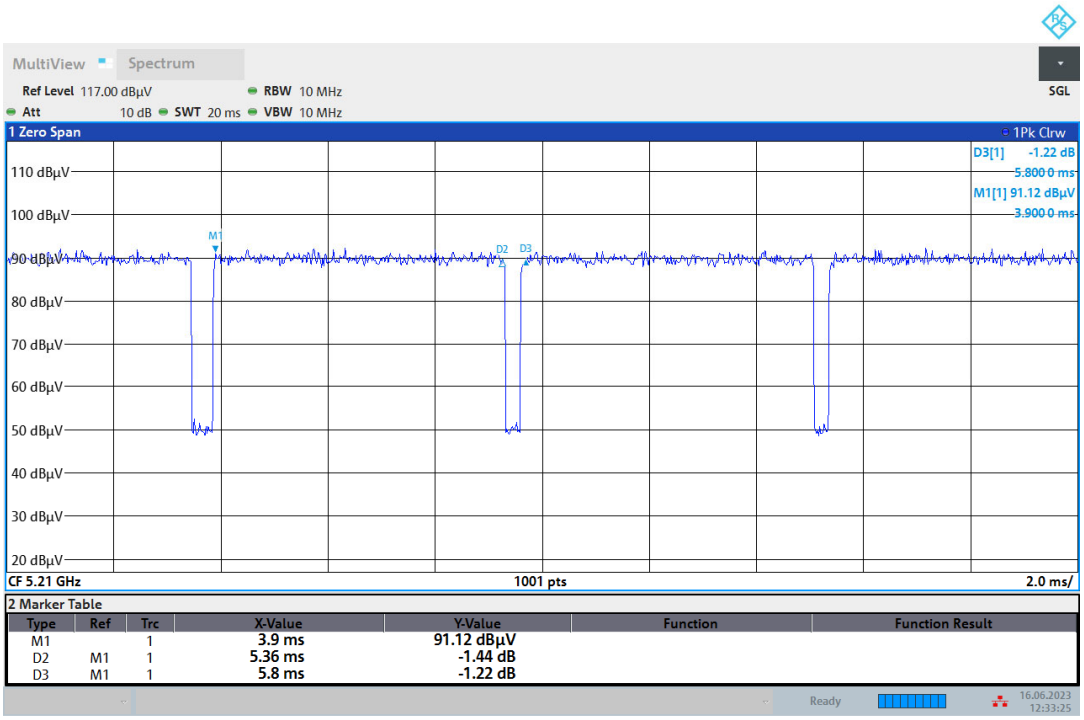


802.11ax40



10:10:13 16.06.2023

802.11ax80



12:33:26 16.06.2023