Test report No.: 2330006R-RFUSV03S-A

TEST REPORT

Product Name	5G Enterprise Router
Trademark	BEC, Billion
Model and /or type reference	AirConnect® 8112, BEC AirConnect® 8112, BEC 8112
FCC ID	QI3BEC-8112
Applicant´s name / address	Billion Electric Co., Ltd. 8F., No.192, Sec. 2, Zhongxing Rd., Xindian Dist., New Taipei City 231, Taiwan (R.O.C.)
Manufacturer´s name	Billion Electric Co., Ltd.
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 (Supervisor / Jinn Chen)	Jinn Chen
Tested By (Senior Engineer / Ivan Chuang)	Ivan Chuang
Approved By (Senior Engineer / Jack Hsu)	Jack Hsu
Date of Receipt	2023/03/01
Date of Issue	2023/06/21
Report Version	V1.0

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Revision History

Report No.	Version	Description	Issued Date
2330006R-RFUSV03S-A	V1.0	Initial issue of report.	2023/06/21

1. General Information

1.1. EUT Description

Product Name	5G Enterprise Router
Trademark	BEC, Billion
Model and /or type reference	AirConnect® 8112, BEC AirConnect® 8112, BEC 8112
EUT Rated Voltage	AC 100-240V / 50-60Hz
EUT Test Voltage	AC 120V / 60Hz
Frequency Range	802.11a/n/ac-20 MHz: 5180-5240 MHz, 5745-5825 MHz 802.11n/ac-40 MHz: 5190-5230 MHz, 5755-5795 MHz 802.11ac-80 MHz: 5210 MHz, 5775 MHz
Number of Channels	802.11a/n/ac-20 MHz: 9CH, 802.11n/ac-40 MHz: 4CH 802.11ac-80 MHz: 2CH
Data Rate	802.11a: 6-54 Mbps, 802.11n: up to 600 MHz 802.11ac: up to 1733.3 MHz
Type of Modulation	OFDM, BPSK, QPSK, 16QAM, 64QAM, 256QAM
Channel Control	Auto
Adapter	MFR: BILLION, M/N: PA1024-150HUB200 Input: AC 100-240V~0.6A 50-60Hz Output: 15V⎓2A 30W Cable out: Non-shielded, 1.5 m

Antenna List

No.	Manufacturer	Part No.	Antenna Type	Peak Gain
1	GRAND-TEK TECHNOLOGY CO.,LTD	OA-5G-EB-01-BL (ANT5)	PCB	4.0 dBi for 5150-5250 MHz 4.5 dBi for 5725-5850 MHz
2	GRAND-TEK TECHNOLOGY CO.,LTD	OA-5G-EB-01-BL (ANT6)	PCB	3.6 dBi for 5150-5250 MHz 4.3 dBi for 5725-5850 MHz
3	GRAND-TEK TECHNOLOGY CO.,LTD	OA-5G-EB-01-BL (ANT7)	PCB	2.8 dBi for 5150-5250 MHz 3.1 dBi for 5725-5850 MHz
4	GRAND-TEK TECHNOLOGY CO.,LTD	OA-5G-EB-01-BL (ANT8)	PCB	2.3 dBi for 5150-5250 MHz 3.1 dBi for 5725-5850 MHz

Note: The antenna of EUT is conform to FCC 15.203.

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

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

Note:

1. This device is a 5G Enterprise Router with built-in WLAN, this report for 5GHz WLAN.
2. Regarding to the operation frequency, the lowest, middle and highest frequency are selected to perform the test.
3. Lowest data rates are tested in each mode. Only worst case is shown in the report.
4. (802.11a is 6Mbps、802.11ac-20 MHz/40 MHz/80 MHz is MCS0)
5. The spectrum plot against conducted item only shows the worst case.
6. It's declared by manufacture about all models are electrically identical, different model names for marketing purpose.
7. These tests were conducted on a sample for the purpose of demonstrating compliance of 802.11a/n/ac transmitter with Part 15 Subpart E for Unlicensed National Information Infrastructure devices.

Test Mode	Mode 1	Transmit (802.11a)
		Transmit (802.11ac-20 MHz)
		Transmit (802.11ac-40 MHz)
		Transmit (802.11ac-80 MHz)
	Mode 2	Co-location

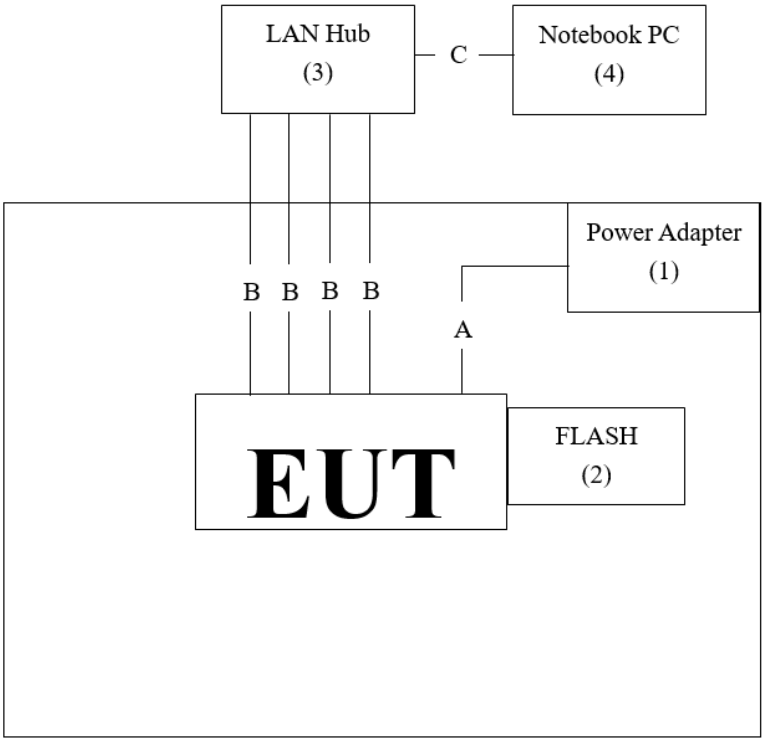
1.2. Tested System Datails

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	BILLION	PA1024-150HUB200	N/A	N/A
2	FLASH	Kingston	DT100G3/8GB	N/A	N/A
3	LAN Hub	TP-LINK	TL-SG108	2161597000480	Non-shielded, 1.5m
4	Notebook PC	Lenovo	TP00067C	PF-0EW0C3	N/A

Cable Type		Cable Description
A	Power Cable	Non-shielded, 1.5m
B	LAN Cable	Non-shielded, 3m, 4 PCS.
C	LAN Cable	Non-shielded, 2m

1.3. Configuration of tested System



1.4. EUT Exercise Software

1.	Setup the EUT as shown in Section 1.3.
2.	Execute software “QATool Version 0.0.1.71” on the Notebook PC.
3.	Configure the test mode, the test channel, and the data rate.
4.	Press “OK” to start the continuous Transmit.
5.	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	21.5 °C
	Humidity (%RH)	10~90 %	47.6 %
Radiated Emission	Temperature (°C)	10~40 °C	23.5 °C
	Humidity (%RH)	10~90 %	65.3 %
Conductive	Temperature (°C)	10~40 °C	22.0 °C
	Humidity (%RH)	10~90 %	55.0 %

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	2022/06/23	2023/06/22
V	Two-Line V-Network	R&S	ENV216	101306	2022/05/23	2023/05/22
V	Two-Line V-Network	R&S	ENV216	101307	2022/07/04	2023/07/03
V	Coaxial Cable	SUHNER	RG400_BNC	RF001	2022/05/24	2023/05/23

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 210616 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	2022/05/27	2023/05/26
V	Power Sensor	KEYSIGHT	N1923A	MY59240002	2022/05/19	2023/05/18
V	Power Sensor	KEYSIGHT	N1923A	MY59240003	2022/05/19	2023/05/18

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-CB03

	Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Due Date
V	Loop Antenna	AMETEK	HLA6121	56736	2022/05/14	2023/05/13
V	Bi-Log Antenna	SCHWARZBECK	VULB9168	9168-675	2021/08/11	2023/08/10
V	Horn Antenna	Com-Power	AH-840	101100	2021/10/04	2023/10/03
V	Horn Antenna	RF SPIN	DRH18-E	210508A18ES	2022/06/08	2023/06/07
V	Horn Antenna	RF SPIN	DRH18-E	210507A18ES	2023/05/11	2024/05/10
V	Pre-Amplifier	SGH	0301	20211007-10	2023/01/10	2024/01/09
V	Pre-Amplifier	SGH	PRAMP118	20200701	2023/01/10	2024/01/09
V	Pre-Amplifier	EMCI	EMC05820SE	980310	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	G269	2023/01/05	2024/01/04
V	Filter	MICRO TRONICS	BRM50716	G196	2023/01/05	2024/01/04
V	EMI Test Receiver	R&S	ESR3	102793	2022/12/05	2023/12/04
V	Spectrum Analyzer	R&S	FSV3044	101114	2023/02/16	2024/02/15
V	Coaxial Cable	SGH	SGH18	2021005-1	2023/01/10	2024/01/09
	Coaxial Cable	SGH	SGH18	202108-4		
	Coaxial Cable	SGH	SGH18	GD20110223-1		
	Coaxial Cable	SGH	HA800	GD20110222-3		

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 210616 dekra V9.

1.7. Uncertainty

Uncertainties have been calculated according to the DEKRA internal document.

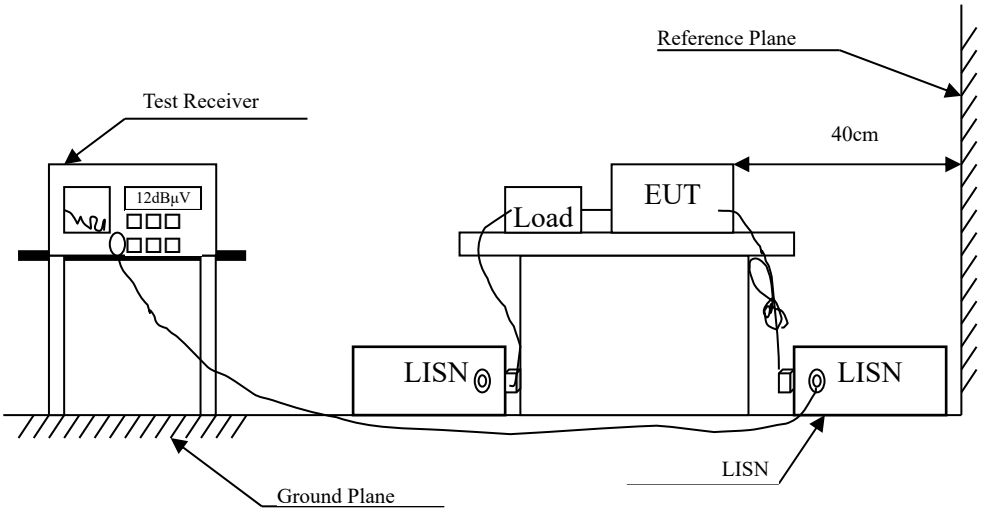
The reported expanded uncertainties are based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95%.

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
Maximun 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

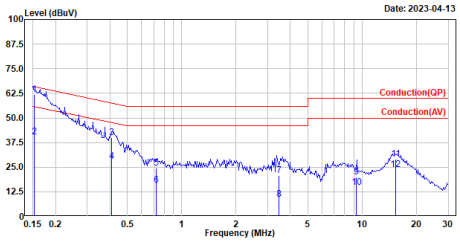
The EUT and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50 ohm /50μH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm /50μH coupling 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 0.15MHz to 30MHz using a receiver bandwidth of 9 kHz.

2.4. Test Result of Conducted Emission

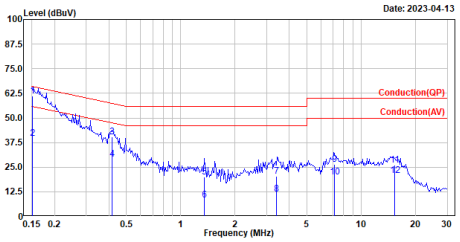
Site :HY-SR01
Condition :Line
Mode :TX_ac80_5775MHz
test by :Shane



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	0.152	61.77	65.89	-4.12	52.09	9.68	QP
2	0.152	40.38	55.89	-15.51	30.70	9.68	Average
3	0.408	39.82	57.68	-17.86	30.14	9.68	QP
4	0.408	27.77	47.68	-19.91	18.09	9.68	Average
5	0.726	24.62	56.00	-31.38	14.92	9.70	QP
6	0.726	15.87	46.00	-30.13	6.17	9.70	Average
7	3.446	20.83	56.00	-35.17	10.52	10.31	QP
8	3.446	8.71	46.00	-37.29	-1.60	10.31	Average
9	9.252	20.05	60.00	-39.95	9.24	10.81	QP
10	9.252	14.59	50.00	-35.41	3.78	10.81	Average
11	15.257	28.91	60.00	-31.09	18.12	10.79	QP
12	15.257	23.82	50.00	-26.18	13.03	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_ac80_5775MHz
test by :Shane



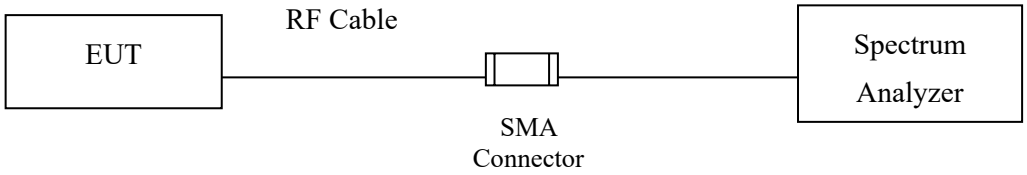
No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	0.151	61.29	65.92	-4.63	51.63	9.66	QP
2	0.151	39.63	55.92	-16.29	29.97	9.66	Average
3	0.415	40.27	57.54	-17.27	30.61	9.66	QP
4	0.415	28.87	47.54	-18.67	19.21	9.66	Average
5	1.349	19.99	56.00	-36.01	10.26	9.73	QP
6	1.349	8.45	46.00	-37.55	-1.28	9.73	Average
7	3.389	20.21	56.00	-35.79	9.94	10.27	QP
8	3.389	11.16	46.00	-34.84	0.89	10.27	Average
9	7.110	26.42	60.00	-33.58	15.61	10.81	QP
10	7.110	19.94	50.00	-30.06	9.13	10.81	Average
11	15.307	26.13	60.00	-33.87	15.29	10.84	QP
12	15.307	20.72	50.00	-29.28	9.88	10.84	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

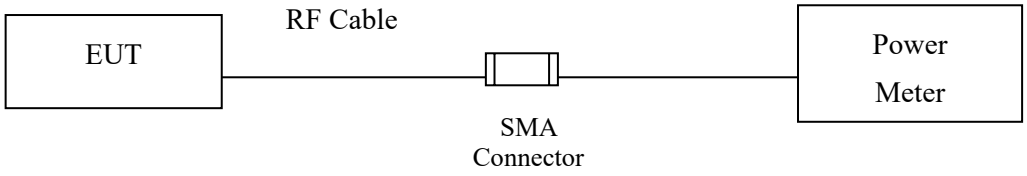
3.1. Test Setup

26dB Occupied Bandwidth

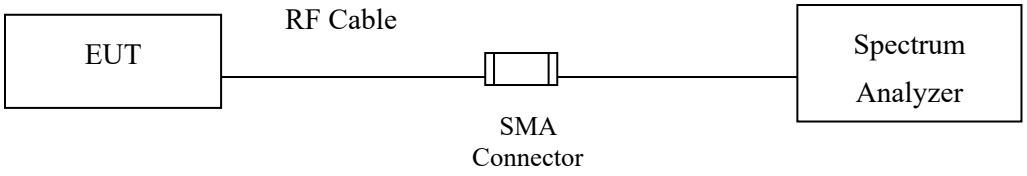


Conduction Power Measurement

Conduction Power Measurement (for 802.11an)



Conduction Power Measurement (for 802.11ac)



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.

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≦40MHz) 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=80MHz) 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 : 5G Enterprise Router
Test Item : Maximum conducted output power
Test Mode : Transmit (802.11a)
Test Date : 2023/04/12

Channel No.	Frequency (MHz)	Output Power (dBm)	Output Power Limit (dBm)
36	5180	22.77	30
44	5220	24.61	30
48	5240	24.26	30
149	5745	21.52	30
157	5785	27.08	30
165	5825	25.98	30

Product : 5G Enterprise Router
Test Item : Maximum conducted output power
Test Mode : Transmit (802.11ac-20 MHz)
Test Date : 2023/04/12

Channel No.	Frequency (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Chain C Power (dBm)	Chain D Power (dBm)	Output Power (dBm)	Output Power Limit (dBm)
36	5180	20.27	20.86	21.09	21.14	20.37	30
44	5220	21.24	20.98	20.69	19.77	24.07	30
48	5240	22.03	21.79	21.55	20.69	24.64	30
149	5745	23.39	23.37	22.89	23.22	24.26	30
157	5785	23.87	24.16	23.69	23.91	24.22	30
165	5825	23.18	23.42	23.24	23.06	24.21	30

Note:

1. Output Power (dBm) = 10*LOG (Chain A(mW) + Chain B(mW) + Chain C(mW) + Chain C(mW))

Product : 5G Enterprise Router
Test Item : Maximum conducted output power
Test Mode : Transmit (802.11ac-40 MHz)
Test Date : 2023/04/12

Channel No.	Frequency (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Chain C Power (dBm)	Chain D Power (dBm)	Output Power (dBm)	Output Power Limit (dBm)
38	5190	17.89	18.52	18.95	18.99	24.63	30
46	5230	18.63	18.05	18.06	17.02	24.00	30
151	5755	21.66	21.54	21.26	21.56	27.53	30
159	5795	23.70	23.92	23.56	23.89	29.79	30

Note:

1. Output Power (dBm) = 10*LOG (Chain A(mW) + Chain B(mW) + Chain C(mW) + Chain C(mW))

Product : 5G Enterprise Router
Test Item : Maximum conducted output power
Test Mode : Transmit (802.11ac-80 MHz)
Test Date : 2023/04/12

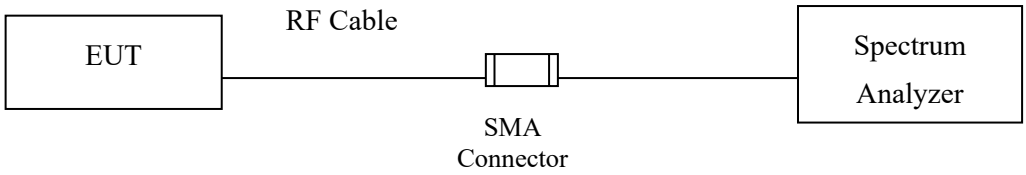
Channel No.	Frequency (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Chain C Power (dBm)	Chain D Power (dBm)	Output Power (dBm)	Output Power Limit (dBm)
42	5210	14.84	14.42	14.56	13.31	20.34	30
155	5775	14.92	14.88	14.72	14.89	20.87	30

Note:

1. Output Power (dBm) = 10*LOG (Chain A(mW) + Chain B(mW) + Chain C(mW) + Chain C(mW))

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.

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.

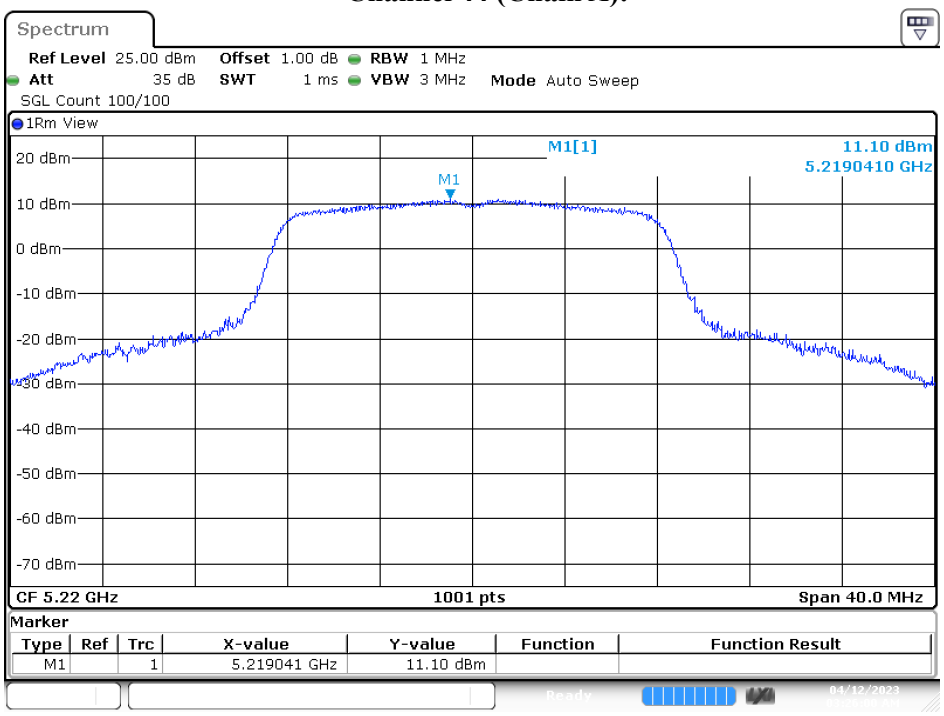
SA-1 method is selected to run the test.

4.4. Test Result of Maximun Power Spectral Density

Product : 5G Enterprise Router
Test Item : Maximun Power Spectral Density
Test Mode : Transmit (802.11a)

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	9.31	1.36	10.67	17	Pass
44	5220	6	A	11.10	1.36	12.46	17	Pass
48	5240	6	A	10.36	1.36	11.72	17	Pass
149	5745	6	A	7.80	1.36	9.16	30	Pass
157	5785	6	A	10.34	1.36	11.70	30	Pass
165	5825	6	A	9.26	1.36	10.62	30	Pass

Channel 44 (Chain A):



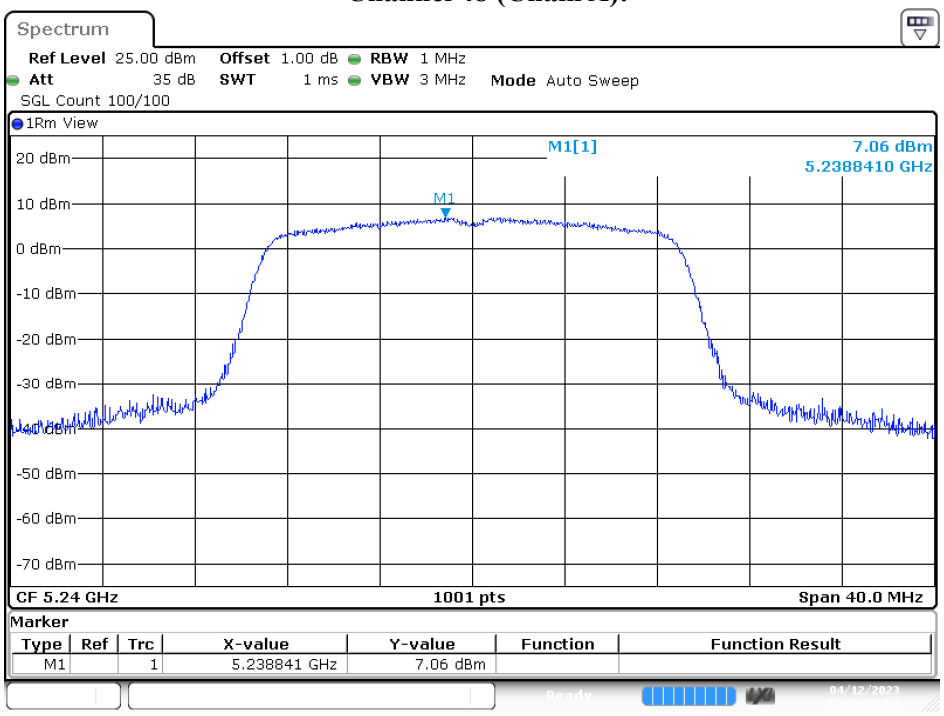
Date: 12.APR.2023 03:26:01

Product : 5G Enterprise Router
Test Item : Maximun Power Spectral Density
Test Mode : Transmit (802.11ac-20 MHz)

Channel No.	Frequency (MHz)	Data Rate	Chain	PPSD/MHz (dBm)	Duty factor (dB)	Total PPSD/MHz (dBm)	Limit (dBm)	Result
36	5180	MCS0	A	6.26	1.20	13.48	17	Pass
			B	6.88	1.20	14.10	17	Pass
			C	6.64	1.20	13.86	17	Pass
			D	6.63	1.20	13.85	17	Pass
44	5220	MCS0	A	6.01	1.20	13.23	17	Pass
			B	6.09	1.20	13.31	17	Pass
			C	6.04	1.20	13.26	17	Pass
			D	5.35	1.20	12.57	17	Pass
48	5240	MCS0	A	7.06	1.20	14.28	17	Pass
			B	6.93	1.20	14.15	17	Pass
			C	6.93	1.20	14.15	17	Pass
			D	5.92	1.20	13.14	17	Pass
149	5745	MCS0	A	5.11	1.20	12.33	30	Pass
			B	5.27	1.20	12.49	30	Pass
			C	5.35	1.20	12.57	30	Pass
			D	5.69	1.20	12.91	30	Pass
157	5785	MCS0	A	5.87	1.20	13.09	30	Pass
			B	5.99	1.20	13.21	30	Pass
			C	6.29	1.20	13.51	30	Pass
			D	6.23	1.20	13.45	30	Pass
165	5825	MCS0	A	4.83	1.20	12.05	30	Pass
			B	5.33	1.20	12.55	30	Pass
			C	5.53	1.20	12.75	30	Pass
			D	5.12	1.20	12.34	30	Pass

Note: The quantity 10*log 4 (four antennas) is added to the spectrum peak value according to document 662911 D01.

Channel 48 (Chain A):



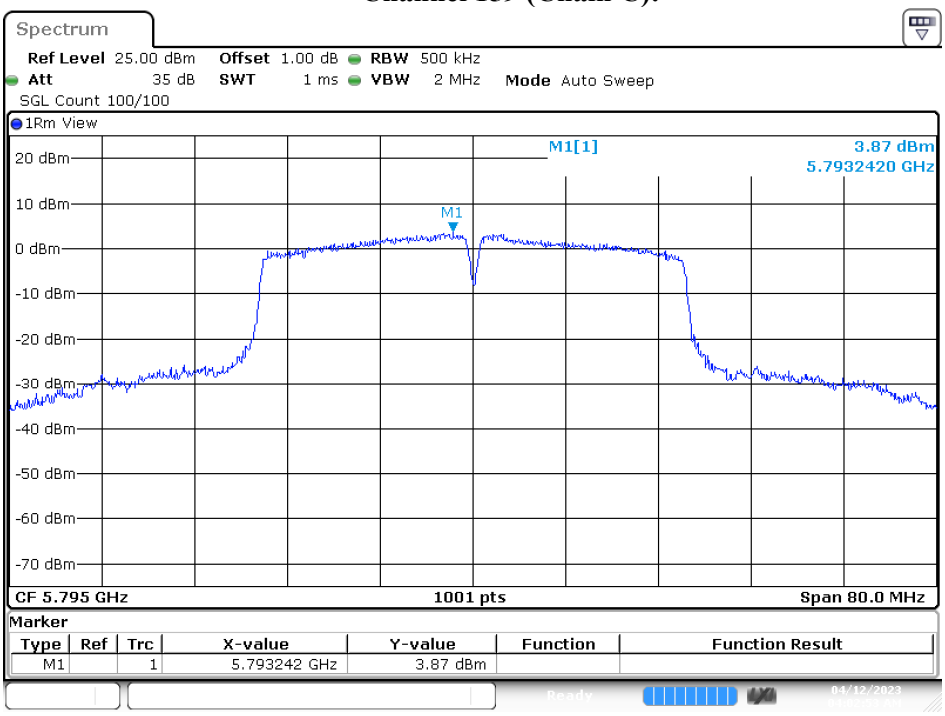
Date: 12.APR.2023 03:38:37

Product : 5G Enterprise Router
Test Item : Maximun Power Spectral Density
Test Mode : Transmit (802.11ac-40 MHz)

Channel No.	Frequency (MHz)	Data Rate	Chain	PPSD/MHz (dBm)	Duty factor (dB)	Total PPSD/MHz (dBm)	Limit (dBm)	Result
38	5190	MCS0	A	0.07	1.79	7.88	17	Pass
			B	0.16	1.79	7.97	17	Pass
			C	1.22	1.79	9.03	17	Pass
			D	0.74	1.79	8.55	17	Pass
46	5230	MCS0	A	0.32	1.79	8.13	17	Pass
			B	-0.18	1.79	7.63	17	Pass
			C	-0.09	1.79	7.72	17	Pass
			D	-0.66	1.79	7.15	17	Pass
151	5755	MCS0	A	1.11	1.79	8.92	30	Pass
			B	0.62	1.79	8.43	30	Pass
			C	0.43	1.79	8.24	30	Pass
			D	1.00	1.79	8.81	30	Pass
159	5795	MCS0	A	2.96	1.79	10.77	30	Pass
			B	3.09	1.79	10.90	30	Pass
			C	3.87	1.79	11.68	30	Pass
			D	3.42	1.79	11.23	30	Pass

Note: The quantity 10*log 4 (four antennas) is added to the spectrum peak value according to document 662911 D01.

Channel 159 (Chain C):



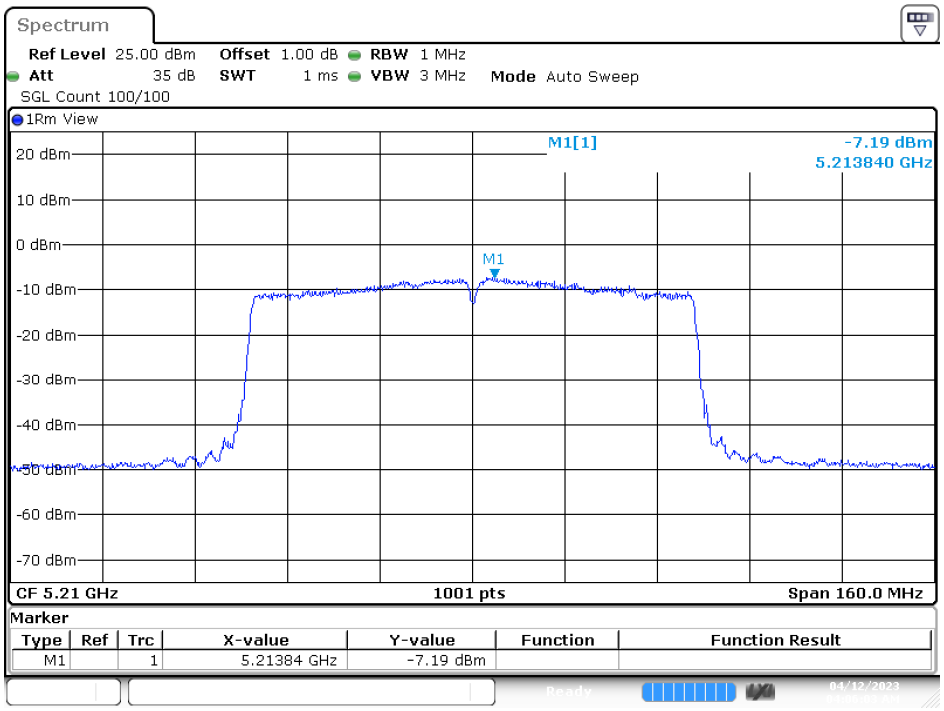
Date: 12.APR.2023 04:02:53

Product : 5G Enterprise Router
Test Item : Maximun Power Spectral Density
Test Mode : Transmit (802.11ac-80 MHz)

Channel No.	Frequency (MHz)	Data Rate	Chain	PPSD/MHz (dBm)	Duty factor (dB)	Total PPSD/MHz (dBm)	Limit (dBm)	Result
42	5210	MCS0	A	-7.19	3.60	2.43	17	Pass
			B	-7.88	3.60	1.74	17	Pass
			C	-7.76	3.60	1.86	17	Pass
			D	-8.52	3.60	1.10	17	Pass
155	5775	MCS0	A	-9.63	3.60	-0.01	30	Pass
			B	-10.14	3.60	-0.52	30	Pass
			C	-10.31	3.60	-0.69	30	Pass
			D	-9.91	3.60	-0.29	30	Pass

Note: The quantity 10*log 4 (four antennas) is added to the spectrum peak value according to document 662911 D01.

Channel 42 (Chain A):

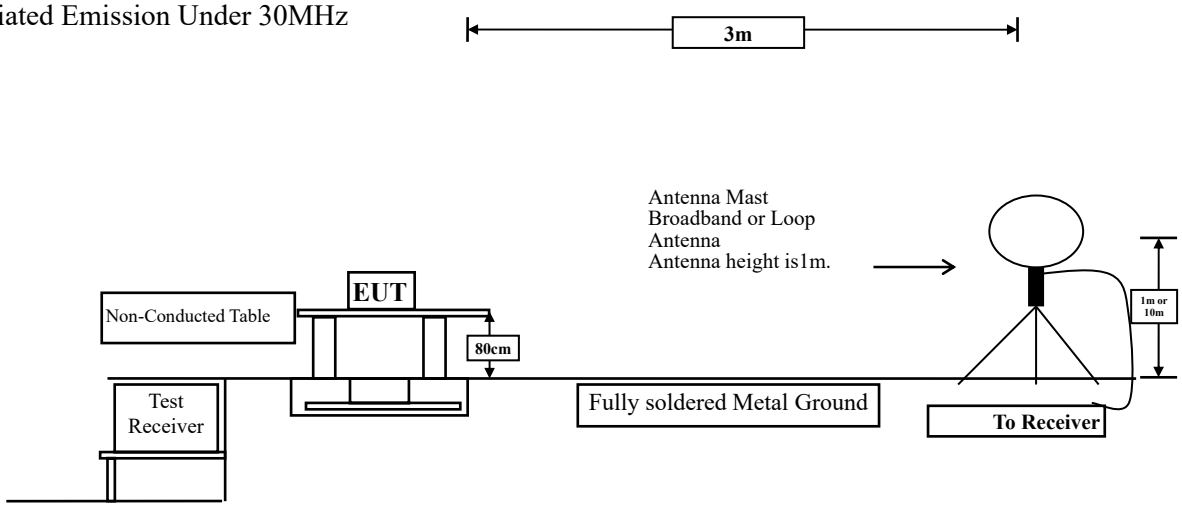


Date: 12.APR.2023 04:06:03

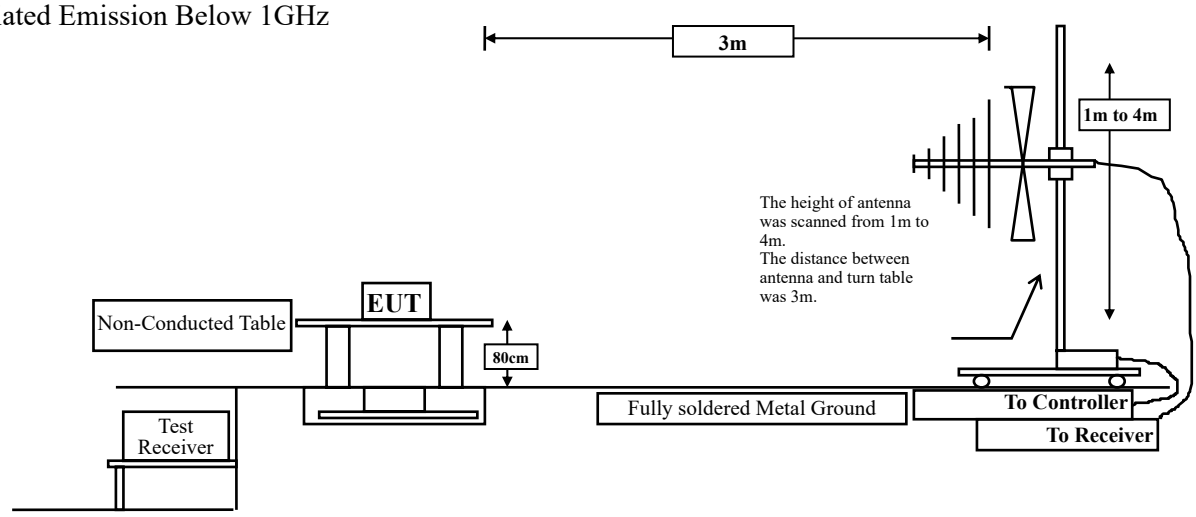
5. Radiated Emission

5.1. Test Setup

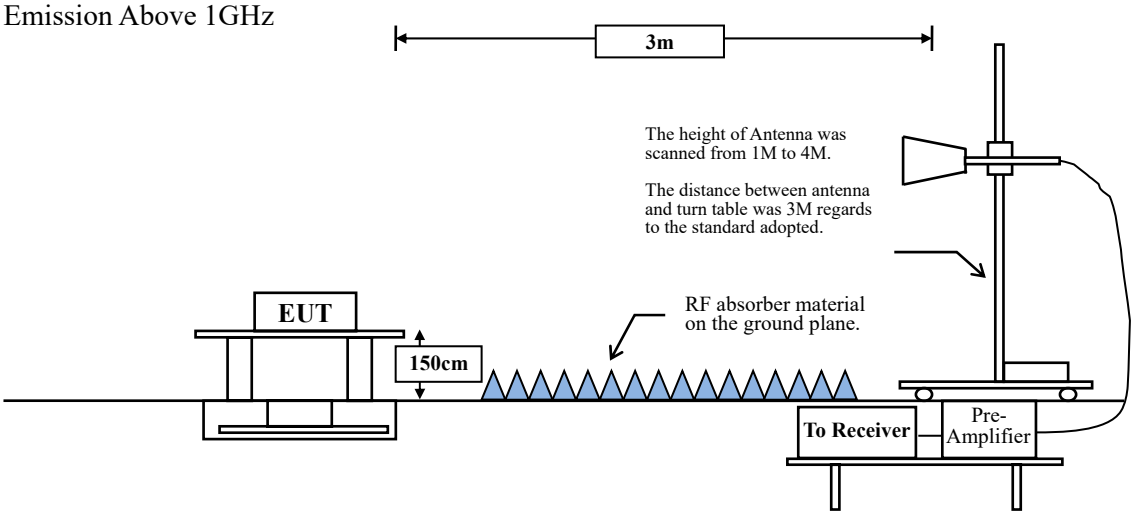
Radiated Emission Under 30MHz



Radiated Emission Below 1GHz



Radiated Emission Above 1GHz



5.2. Limits

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 20dB 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 (μV/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 1GHz, the EUT is placed on a turn table which is 0.8 meter above ground,when measuring the frequency range above 1GHz, 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 30MHz 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 - 10 th 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 = 1MHz.

VBW ≥ 3MHz.

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

RBW = 1MHz.

VBW = 10Hz, when duty cycle ≥ 98 %

VBW ≥ 1/T, when duty cycle < 98 %

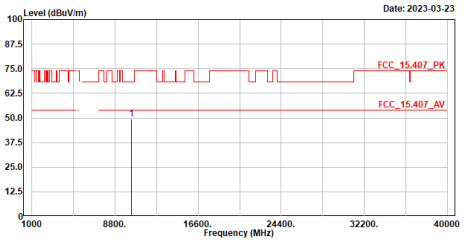
(T refers to the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.)

5GHz band	Duty Cycle (%)	T (ms)	1/T (Hz)	VBW (Hz)
802.11a	73.11	1.4000	714	1000
802.11ac-20 MHz	75.77	1.3100	763	1000
802.11ac-40 MHz	66.16	0.6550	1527	2000
802.11ac-80 MHz	43.59	0.3230	3096	5000

Note: Duty Cycle Refer to Section 8.

5.4. Test Result of Radiated Emission

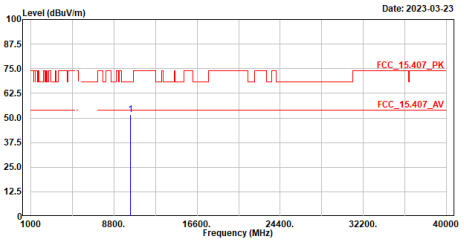
Site :HY-CB03
Condition :3m ,HORIZONTAL
Mode :TX_a_5180MHz
Test BY :Ashton



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	10360.000	49.60	68.22	-18.62	54.22	-4.62	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.

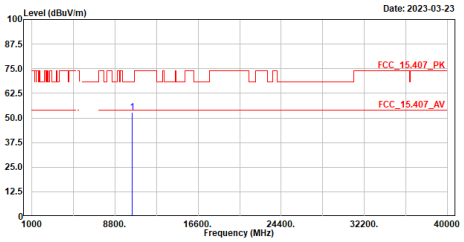
Site :HY-CB03
Condition :3m ,VERTICAL
Mode :TX_a_5180MHz
Test BY :Ashton



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	10360.000	51.63	68.22	-16.59	56.25	-4.62	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.

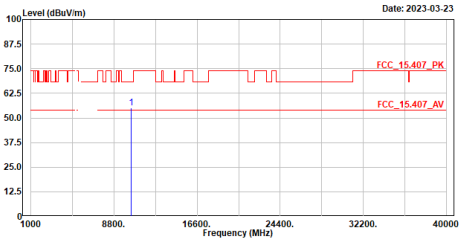
Site :HY-CB03
Condition :3m ,HORIZONTAL
Mode :TX_a_5220MHz
Test BY :Ashton



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	10440.000	52.77	68.22	-15.45	57.27	-4.50	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.

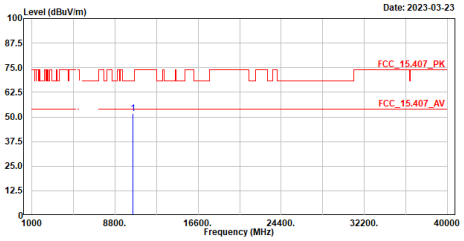
Site :HY-CB03
Condition :3m ,VERTICAL
Mode :TX_a_5220MHz
Test BY :Ashton



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	10440.000	54.99	68.22	-13.23	59.49	-4.50	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.

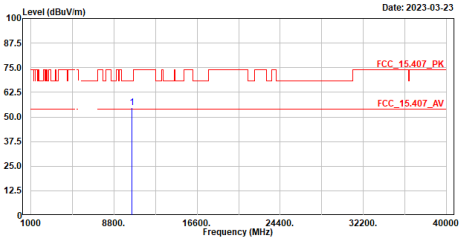
Site :HY-CB03
Condition :3m ,HORIZONTAL
Mode :TX_a_5240MHz
Test BY :Ashton



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	10480.000	51.57	68.22	-16.65	55.97	-4.40	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.

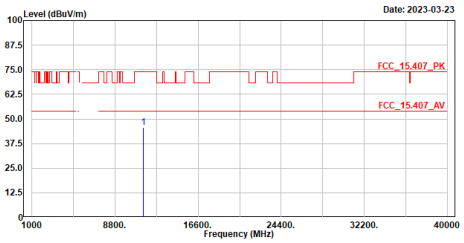
Site :HY-CB03
Condition :3m ,VERTICAL
Mode :TX_a_5240MHz
Test BY :Ashton



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	10480.000	54.81	68.22	-13.41	59.21	-4.40	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.

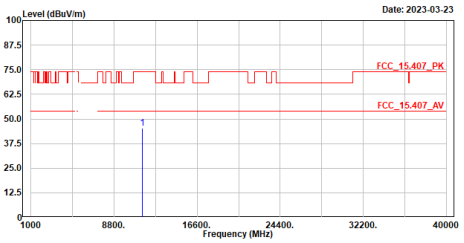
Site :HY-CB03
Condition :3m ,HORIZONTAL
Mode :TX_a_5745MHz
Test BY :Ashton



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	11490.000	45.75	74.00	-28.25	47.74	-1.99	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.

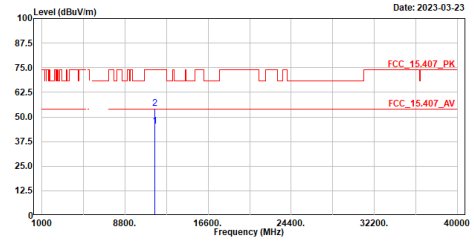
Site :HY-CB03
Condition :3m ,VERTICAL
Mode :TX_a_5745MHz
Test BY :Ashton



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	11490.000	45.16	74.00	-28.84	47.15	-1.99	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.

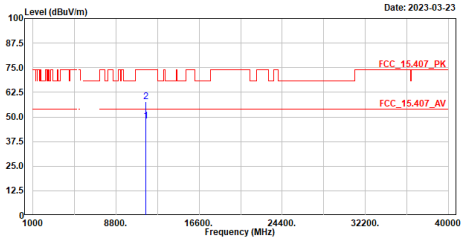
Site :HY-CB03
Condition :3m ,HORIZONTAL
Mode :TX_a_5785MHz
Test BY :Ashton



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	11570.000	45.41	54.00	-8.59	47.22	-1.81	Average
2	11570.000	54.44	74.00	-19.56	56.25	-1.81	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.

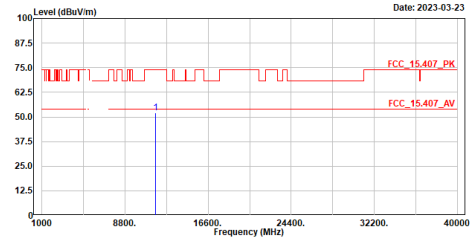
Site :HY-CB03
Condition :3m ,VERTICAL
Mode :TX_a_5785MHz
Test BY :Ashton



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	11570.000	47.87	54.00	-6.13	49.68	-1.81	Average
2	11570.000	57.68	74.00	-16.32	59.49	-1.81	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.

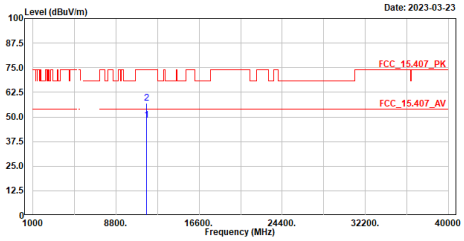
Site :HY-CB03
Condition :3m ,HORIZONTAL
Mode :TX_a_5825MHz
Test BY :Ashton



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	11650.000	52.09	74.00	-21.91	53.91	-1.82	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-CB03
Condition :3m ,VERTICAL
Mode :TX_a_5825MHz
Test BY :Ashton

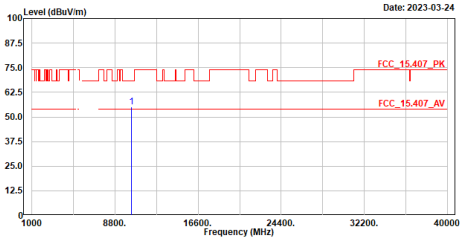


No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	11650.000	48.30	54.00	-5.70	50.12	-1.82	Average
2	11650.000	57.07	74.00	-16.93	58.89	-1.82	Peak

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.

MIMO

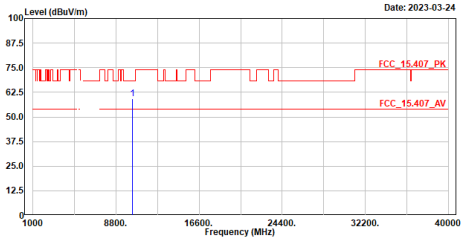
Site :HY-CB03
Condition :3m ,HORIZONTAL
Mode :TX_ac20_5180MHz
Test BY :Ashton



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	10360.000	54.96	68.22	-13.26	59.58	-4.62	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.

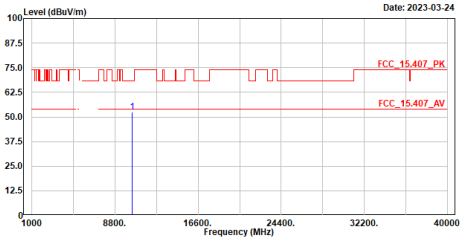
Site :HY-CB03
Condition :3m ,VERTICAL
Mode :TX_ac20_5180MHz
Test BY :Ashton



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	10360.000	59.33	68.22	-8.89	63.95	-4.62	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.

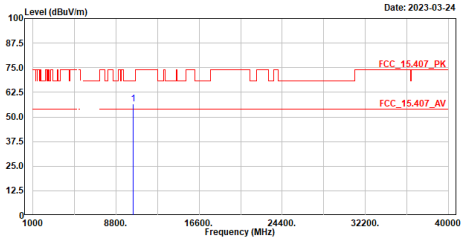
Site :HY-CB03
Condition :3m ,HORIZONTAL
Mode :TX_ac20_5220MHz
Test BY :Ashton



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	10440.000	52.55	68.22	-15.67	57.05	-4.50	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.

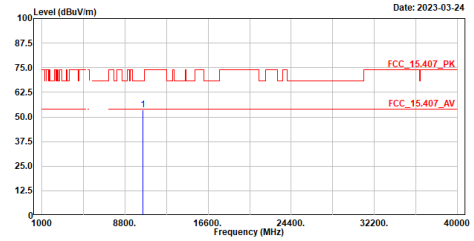
Site :HY-CB03
Condition :3m ,VERTICAL
Mode :TX_ac20_5220MHz
Test BY :Ashton



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	10440.000	56.79	68.22	-11.43	61.29	-4.50	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.

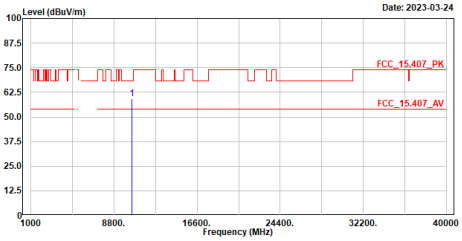
Site :HY-CB03
Condition :3m ,HORIZONTAL
Mode :TX_ac20_5240MHz
Test BY :Ashton



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	10480.000	53.53	68.22	-14.69	57.93	-4.40	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.

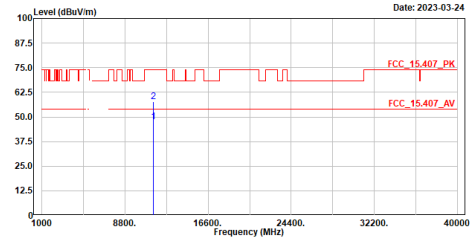
Site :HY-CB03
Condition :3m ,VERTICAL
Mode :TX_ac20_5240MHz
Test BY :Ashton



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	10480.000	59.22	68.22	-9.00	63.62	-4.40	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.

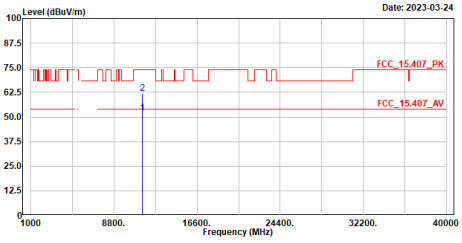
Site :HY-CB03
Condition :3m ,HORIZONTAL
Mode :TX_ac20_5745MHz
Test BY :Ashton



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	11490.000	47.64	54.00	-6.36	49.63	-1.99	Average
2	11490.000	57.85	74.00	-16.15	59.84	-1.99	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.

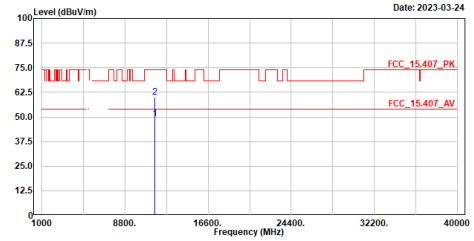
Site :HY-CB03
Condition :3m ,VERTICAL
Mode :TX_ac20_5745MHz
Test BY :Ashton



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	11490.000	52.19	54.00	-1.81	54.18	-1.99	Average
2	11490.000	61.77	74.00	-12.23	63.76	-1.99	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.

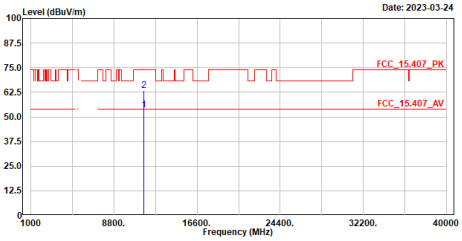
Site :HY-CB03
Condition :3m ,HORIZONTAL
Mode :TX_ac20_5785MHz
Test BY :Ashton



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	11570.000	49.05	54.00	-4.95	50.86	-1.81	Average
2	11570.000	59.88	74.00	-14.12	61.69	-1.81	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.

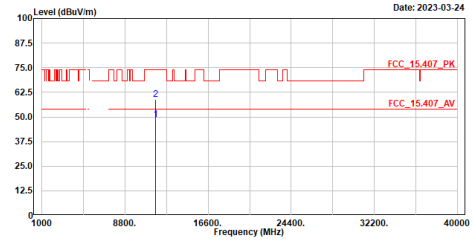
Site :HY-CB03
Condition :3m ,VERTICAL
Mode :TX_ac20_5785MHz
Test BY :Ashton



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	11570.000	53.54	54.00	-0.46	55.35	-1.81	Average
2	11570.000	63.31	74.00	-10.69	65.12	-1.81	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.

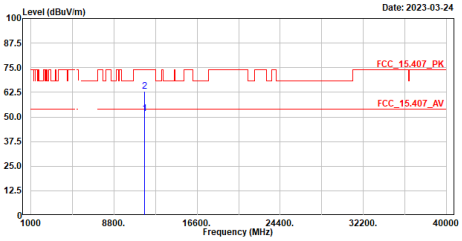
Site :HY-CB03
Condition :3m ,HORIZONTAL
Mode :TX_ac20_5825MHz
Test BY :Ashton



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	11650.000	48.71	54.00	-5.29	50.53	-1.82	Average
2	11650.000	58.82	74.00	-15.18	60.64	-1.82	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.

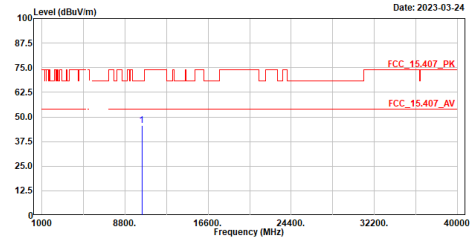
Site :HY-CB03
Condition :3m ,VERTICAL
Mode :TX_ac20_5825MHz
Test BY :Ashton



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	11650.000	51.78	54.00	-2.22	53.60	-1.82	Average
2	11650.000	63.09	74.00	-10.91	64.91	-1.82	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.

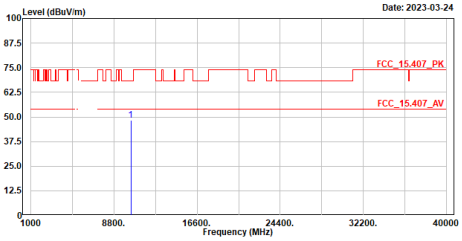
Site :HY-CB03
Condition :3m ,HORIZONTAL
Mode :TX_ac40_5190MHz
Test BY :Ashton



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	10380.000	45.69	68.22	-22.53	50.28	-4.59	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.

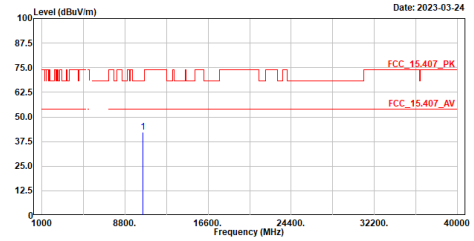
Site :HY-CB03
Condition :3m ,VERTICAL
Mode :TX_ac40_5190MHz
Test BY :Ashton



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	10380.000	48.46	68.22	-19.76	53.05	-4.59	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.

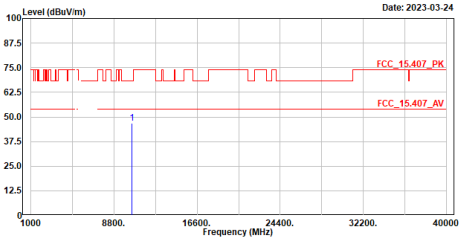
Site :HY-CB03
Condition :3m ,HORIZONTAL
Mode :TX_ac40_5230MHz
Test BY :Ashton



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	10460.000	42.38	68.22	-25.84	46.84	-4.46	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.

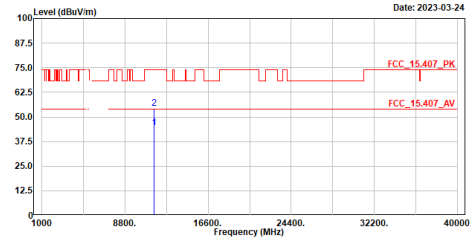
Site :HY-CB03
Condition :3m ,VERTICAL
Mode :TX_ac40_5230MHz
Test BY :Ashton



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	10460.000	46.61	68.22	-21.61	51.07	-4.46	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.

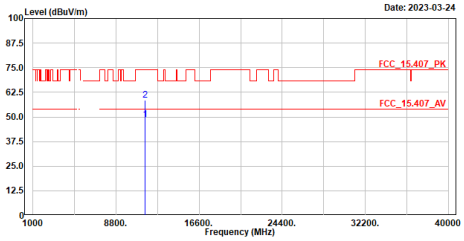
Site :HY-CB03
Condition :3m ,HORIZONTAL
Mode :TX_ac40_5755MHz
Test BY :Ashton



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	11510.000	44.68	54.00	-9.32	46.60	-1.92	Average
2	11510.000	54.18	74.00	-19.82	56.10	-1.92	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.

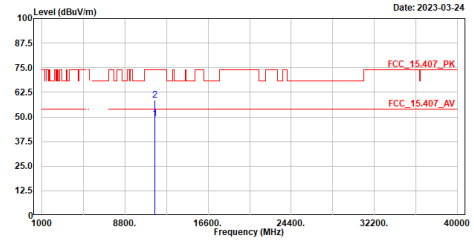
Site :HY-CB03
Condition :3m ,VERTICAL
Mode :TX_ac40_5755MHz
Test BY :Ashton



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	11510.000	48.61	54.00	-5.39	50.53	-1.92	Average
2	11510.000	58.53	74.00	-15.47	60.45	-1.92	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.

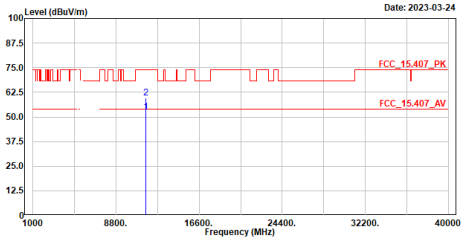
Site :HY-CB03
Condition :3m ,HORIZONTAL
Mode :TX_ac40_5795MHz
Test BY :Ashton



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	11590.000	49.14	54.00	-4.86	50.97	-1.83	Average
2	11590.000	58.61	74.00	-15.39	60.44	-1.83	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.

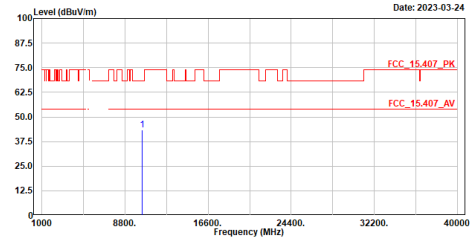
Site :HY-CB03
Condition :3m ,VERTICAL
Mode :TX_ac40_5795MHz
Test BY :Ashton



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	11590.000	52.62	54.00	-1.38	54.45	-1.83	Average
2	11590.000	59.50	74.00	-14.50	61.33	-1.83	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.

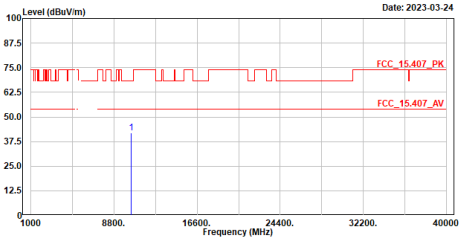
Site :HY-CB03
Condition :3m ,HORIZONTAL
Mode :TX_ac80_5210MHz
Test BY :Ashton



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	10420.000	43.46	68.22	-24.76	47.99	-4.53	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.

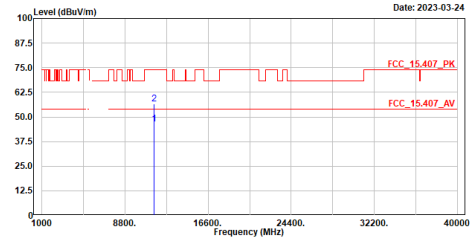
Site :HY-CB03
Condition :3m ,VERTICAL
Mode :TX_ac80_5210MHz
Test BY :Ashton



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	10420.000	41.84	68.22	-26.38	46.37	-4.53	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.

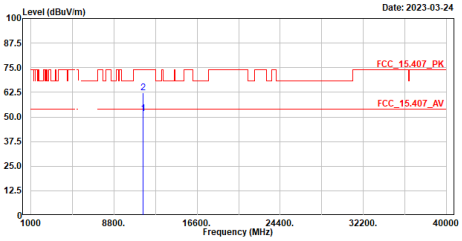
Site :HY-CB03
Condition :3m ,HORIZONTAL
Mode :TX_ac80_5775MHz
Test BY :Ashton



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	11550.000	46.26	54.00	-7.74	48.05	-1.79	Average
2	11550.000	56.76	74.00	-17.24	58.55	-1.79	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.

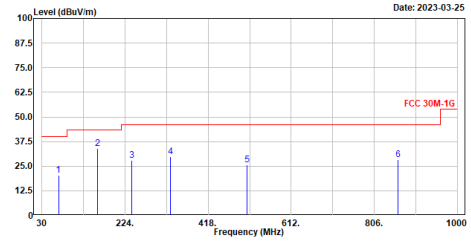
Site :HY-CB03
Condition :3m ,VERTICAL
Mode :TX_ac80_5775MHz
Test BY :Ashton



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	11550.000	51.66	54.00	-2.34	53.45	-1.79	Average
2	11550.000	62.17	74.00	-11.83	63.96	-1.79	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.

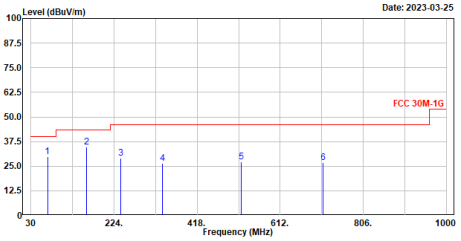
Site :HY-CB03
Condition :3m ,HORIZONTAL
Mode :TX_ac80_5775MHz
Test BY :Ashton



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	68.800	20.38	40.00	-19.62	46.71	-26.33	QP
2	159.980	33.90	43.50	-9.60	57.90	-24.00	QP
3	239.520	27.97	46.00	-18.03	53.64	-25.67	QP
4	329.730	29.92	46.00	-16.08	52.66	-22.74	QP
5	508.210	25.78	46.00	-20.22	44.19	-18.41	QP
6	862.260	28.19	46.00	-17.81	41.05	-12.86	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-CB03
Condition :3m ,VERTICAL
Mode :TX_ac80_5775MHz
Test BY :Ashton

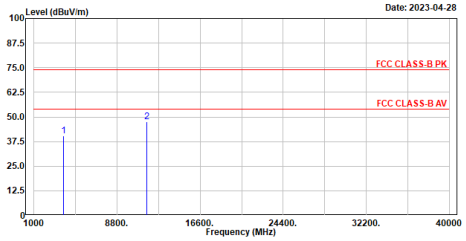


No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	68.800	29.97	40.00	-10.03	56.30	-26.33	QP
2	159.980	34.78	43.50	-8.72	58.78	-24.00	QP
3	239.520	28.99	46.00	-17.01	54.66	-25.67	QP
4	336.520	26.33	46.00	-19.67	48.93	-22.60	QP
5	520.820	27.06	46.00	-18.94	45.27	-18.21	QP
6	711.910	26.85	46.00	-19.15	41.58	-14.73	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.

Co-location

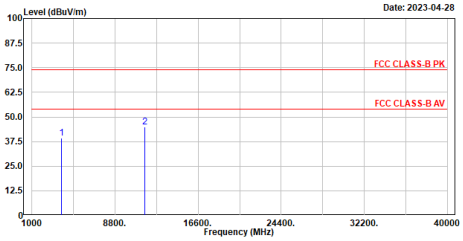
Site :HY-CB03
Condition :3m ,Horizontal
Mode :TX_ac40_5795MHz+LTE_B2_3M_QPSK_1RB7_CH18900
Test BY :Ashton



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	3760.000	40.28	74.00	-33.72	58.67	-18.39	Peak
2	11590.000	47.37	74.00	-26.63	49.20	-1.83	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.

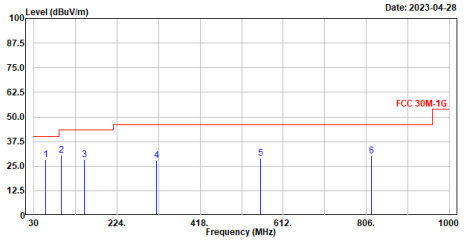
Site :HY-CB03
Condition :3m ,Vertical
Mode :TX_ac40_5795MHz+LTE_B2_3M_QPSK_1RB7_CH18900
Test BY :Ashton



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	3760.000	39.13	74.00	-34.87	57.52	-18.39	Peak
2	11590.000	44.78	74.00	-29.22	46.61	-1.83	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.

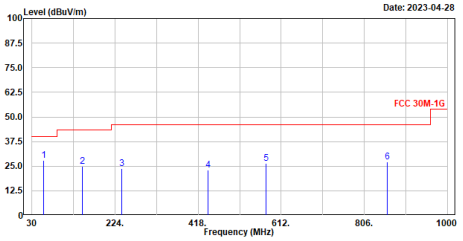
Site :HY-CB03
Condition :3m ,HORIZONTAL
Mode :TX_ac40_5795MHz+LTE_B2_3M_QPSK_1RB7_CH18900
Test BY :Ashton



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	58.130	28.43	40.00	-11.57	53.25	-24.82	QP
2	94.020	30.64	43.50	-12.86	60.49	-29.85	QP
3	147.370	28.47	43.50	-15.03	52.76	-24.29	QP
4	316.150	28.00	46.00	-18.00	51.12	-23.12	QP
5	559.620	29.15	46.00	-16.85	46.74	-17.59	QP
6	817.640	30.34	46.00	-15.66	43.55	-13.21	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.

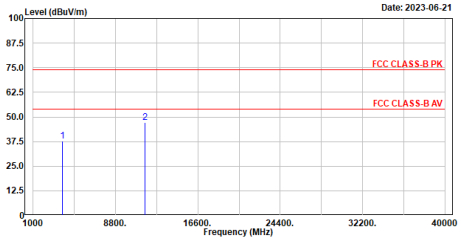
Site :HY-CB03
Condition :3m ,Vertical
Mode :TX_ac40_5795MHz+LTE_B2_3M_QPSK_1RB7_CH18900
Test BY :Ashton



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	58.130	27.74	40.00	-12.26	52.56	-24.82	QP
2	147.370	25.09	43.50	-18.41	49.38	-24.29	QP
3	239.520	23.76	46.00	-22.24	49.43	-25.67	QP
4	441.280	23.03	46.00	-22.97	42.87	-19.84	QP
5	577.080	26.53	46.00	-19.47	43.46	-16.93	QP
6	860.320	27.21	46.00	-18.79	40.11	-12.90	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.

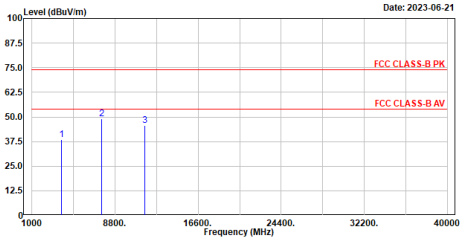
Site :HY-CB03
Condition :3m ,Horizontal
Mode :TX_ac40_5795MHz+5GNR_N2_15M_1RB39_CH376000
Test BY :Ashton



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	3760.000	37.87	74.00	-36.13	56.14	-18.27	Peak
2	11590.000	47.29	74.00	-26.71	49.20	-1.91	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.

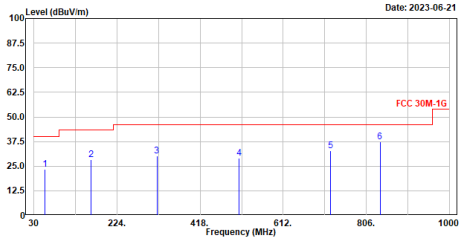
Site :HY-CB03
Condition :3m ,Vertical
Mode :TX_ac40_5795MHz+5GNR_N2_15M_1RB39_CH376000
Test BY :Ashton



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	3760.000	38.53	74.00	-35.47	56.80	-18.27	Peak
2	7520.000	49.07	74.00	-24.93	56.01	-6.94	Peak
3	11590.000	45.82	74.00	-28.18	47.73	-1.91	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.

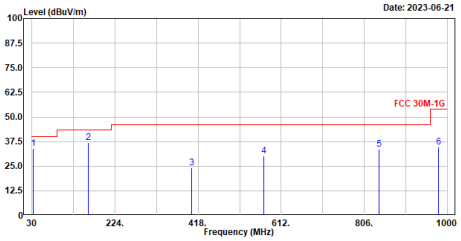
Site :HY-CB03
Condition :3m ,Horizontal
Mode :TX_ac40_5795MHz+5GNR_N2_15M_1RB39_CH376000
Test BY :Ashton



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	56.190	23.56	40.00	-16.44	48.23	-24.67	QP
2	163.860	28.14	43.50	-15.36	52.15	-24.01	QP
3	317.120	30.36	46.00	-15.64	53.45	-23.09	QP
4	508.210	29.05	46.00	-16.95	47.46	-18.41	QP
5	722.580	32.91	46.00	-13.09	47.47	-14.56	QP
6	838.010	37.44	46.00	-8.56	50.41	-12.97	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-CB03
Condition :3m ,Vertical
Mode :TX_ac40_5795MHz+5GNR_N2_15M_1RB39_CH376000
Test BY :Ashton



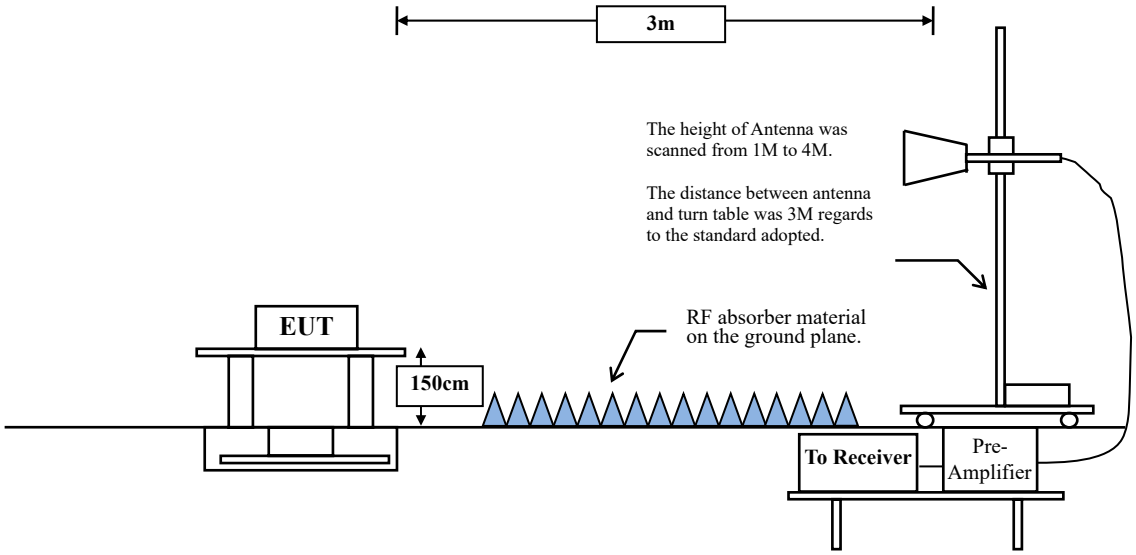
No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	33.880	33.97	40.00	-6.03	59.06	-25.09	QP
2	161.920	37.11	43.50	-6.39	61.12	-24.01	QP
3	403.450	24.25	46.00	-21.75	45.33	-21.08	QP
4	572.230	30.19	46.00	-15.81	47.33	-17.14	QP
5	839.950	33.45	46.00	-12.55	46.38	-12.93	QP
6	979.630	34.74	54.00	-19.26	46.14	-11.40	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 @3m	dBµV/m@3m
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 1GHz 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 = 1MHz.

VBW ≥ 3MHz.

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

RBW = 1MHz.

VBW = 10Hz, when duty cycle ≥ 98 %

VBW ≥ 1/T, when duty cycle < 98 %

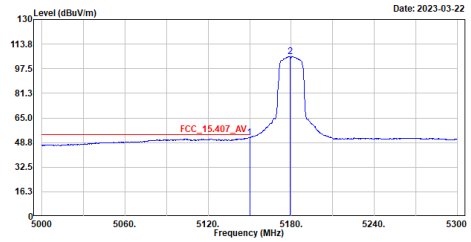
(T refers to the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.)

5GHz band	Duty Cycle (%)	T (ms)	1/T (Hz)	VBW (Hz)
802.11a	73.11	1.4000	714	1000
802.11ac-20 MHz	75.77	1.3100	763	1000
802.11ac-40 MHz	66.16	0.6550	1527	2000
802.11ac-80 MHz	43.59	0.3230	3096	5000

Note: Duty Cycle Refer to Section 8.

6.4. Test Result of Band Edge

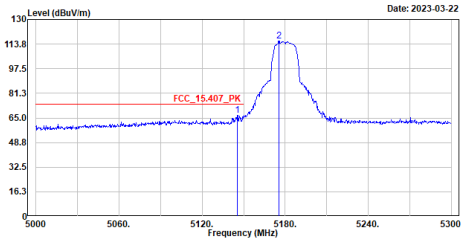
Site :HY-CB03
Condition :3m ,Horizontal
Mode :TX_a_5180MHz
Test BY :Ashton



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	5150.000	52.19	54.00	-1.81	36.37	15.82	Average
2	5179.100	105.64	------	------	89.82	15.82	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.

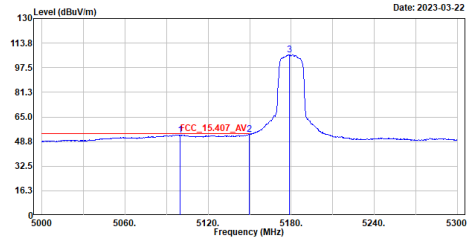
Site :HY-CB03
Condition :3m ,Horizontal
Mode :TX_a_5180MHz
Test BY :Ashton



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	5145.200	66.83	74.00	-7.17	51.02	15.81	Peak
2	5175.500	115.77	------	------	99.94	15.83	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.

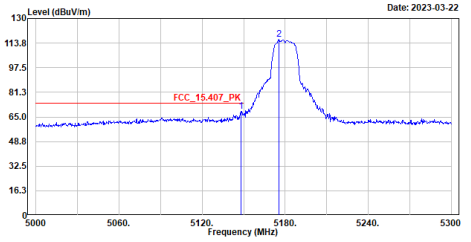
Site :HY-CB03
Condition :3m ,Vertical
Mode :TX_a_5180MHz
Test BY :Ashton



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	5099.900	53.11	54.00	-0.89	37.36	15.75	Average
2	5149.700	53.60	54.00	-0.40	37.79	15.81	Average
3	5178.800	106.17	------	------	90.35	15.82	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.

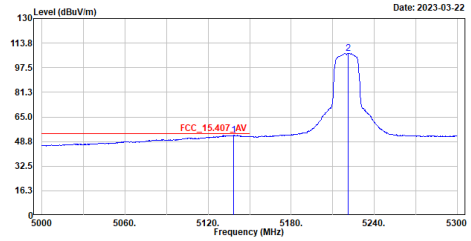
Site :HY-CB03
Condition :3m ,Vertical
Mode :TX_a_5180MHz
Test BY :Ashton



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	5147.900	68.58	74.00	-5.42	52.78	15.80	Peak
2	5175.500	116.30	------	------	100.47	15.83	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.

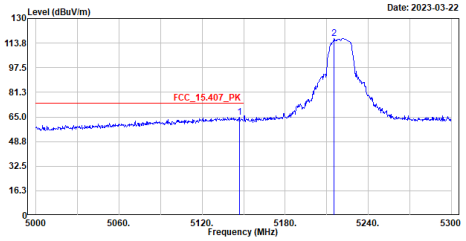
Site :HY-CB03
Condition :3m ,Horizontal
Mode :TX_a_5220MHz
Test BY :Ashton



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	5138.600	52.89	54.00	-1.11	37.10	15.79	Average
2	5221.400	107.18	------	------	91.46	15.72	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.

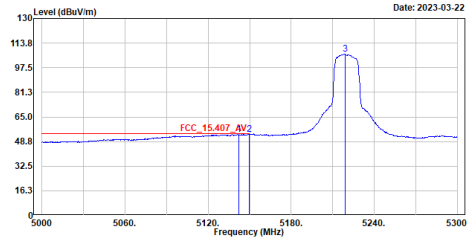
Site :HY-CB03
Condition :3m ,Horizontal
Mode :TX_a_5220MHz
Test BY :Ashton



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	5147.000	64.62	74.00	-9.38	48.81	15.81	Peak
2	5215.400	116.89	------	------	101.14	15.75	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.

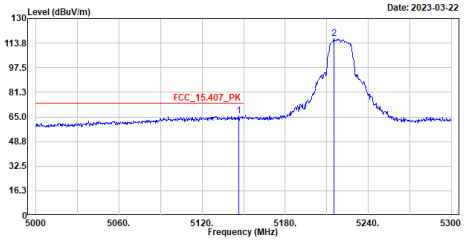
Site :HY-CB03
Condition :3m ,Vertical
Mode :TX_a_5220MHz
Test BY :Ashton



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	5142.200	53.48	54.00	-0.52	37.67	15.81	Average
2	5149.700	53.65	54.00	-0.35	37.84	15.81	Average
3	5219.000	106.51	------	------	90.77	15.74	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.

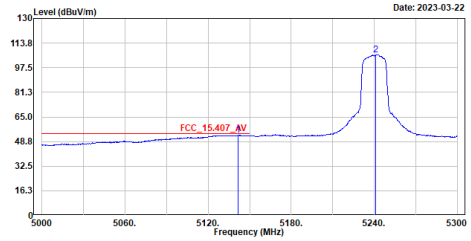
Site :HY-CB03
Condition :3m ,Vertical
Mode :TX_a_5220MHz
Test BY :Ashton



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	5146.400	65.55	74.00	-8.45	49.74	15.81	Peak
2	5215.400	116.88	------	------	101.13	15.75	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.

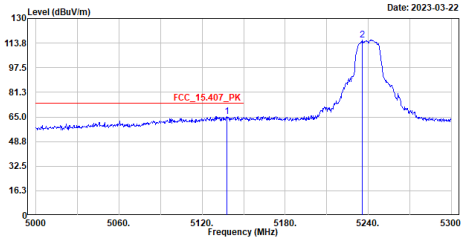
Site :HY-CB03
Condition :3m ,Horizontal
Mode :TX_a_5240MHz_B1
Test BY :Ashton



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	5141.900	52.92	54.00	-1.08	37.11	15.81	Average
2	5241.200	106.21	------	------	90.58	15.63	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.

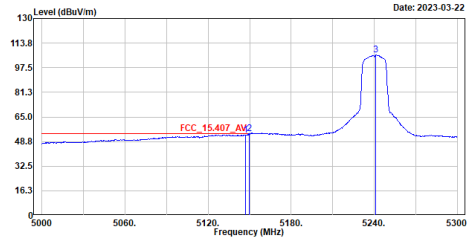
Site :HY-CB03
Condition :3m ,Horizontal
Mode :TX_a_5240MHz_B1
Test BY :Ashton



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	5137.700	65.26	74.00	-8.74	49.47	15.79	Peak
2	5235.500	115.75	------	------	100.09	15.66	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.

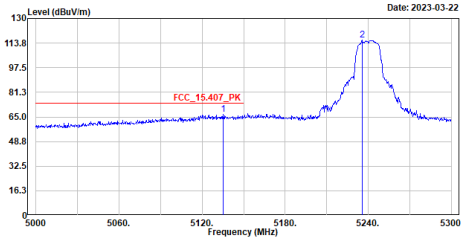
Site :HY-CB03
Condition :3m ,Vertical
Mode :TX_a_5240MHz_B1
Test BY :Ashton



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	5147.000	53.07	54.00	-0.93	37.26	15.81	Average
2	5149.700	53.93	54.00	-0.07	38.12	15.81	Average
3	5241.200	105.96	------	------	90.33	15.63	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.

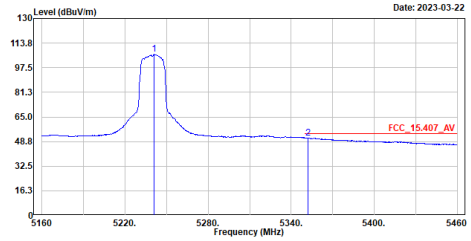
Site :HY-CB03
Condition :3m ,Vertical
Mode :TX_a_5240MHz_B1
Test BY :Ashton



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	5135.000	66.53	74.00	-7.47	50.74	15.79	Peak
2	5235.500	115.67	------	------	100.01	15.66	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.

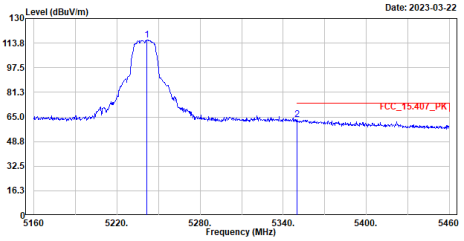
Site :HY-CB03
Condition :3m ,Horizontal
Mode :TX_a_5240MHz_B2
Test BY :Ashton



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	5241.000	106.24	------	------	90.61	15.63	Average
2	5352.000	51.22	54.00	-2.78	35.37	15.85	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.

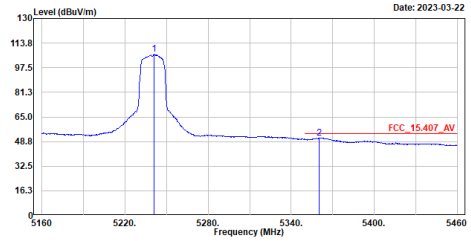
Site :HY-CB03
Condition :3m ,Horizontal
Mode :TX_a_5240MHz_B2
Test BY :Ashton



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	5241.600	115.85	------	------	100.22	15.63	Peak
2	5350.200	63.22	74.00	-10.78	47.37	15.85	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.

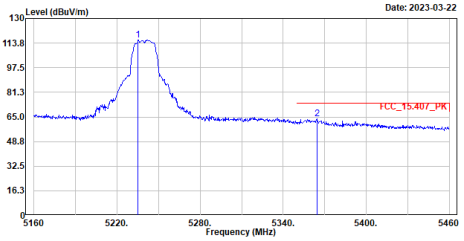
Site :HY-CB03
Condition :3m ,Vertical
Mode :TX_a_5240MHz_B2
Test BY :Ashton



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	5241.000	106.22	------	------	90.59	15.63	Average
2	5360.100	51.01	54.00	-2.99	35.15	15.86	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.

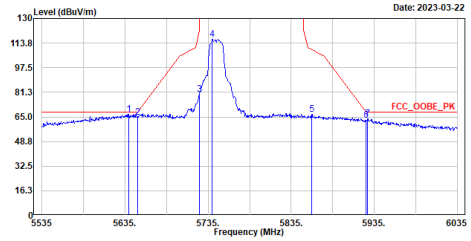
Site :HY-CB03
Condition :3m ,Vertical
Mode :TX_a_5240MHz_B2
Test BY :Ashton



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	5235.300	115.91	------	------	100.25	15.66	Peak
2	5364.300	63.73	74.00	-10.27	47.86	15.87	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.

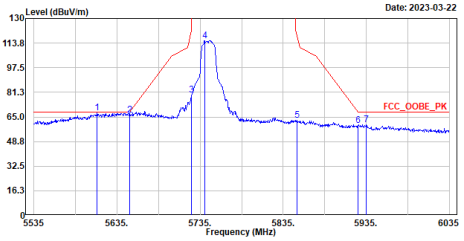
Site :HY-CB03
Condition :3m ,Horizontal
Mode :TX_a_5745MHz
Test BY :Ashton



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	5640.000	66.81	68.20	-1.39	49.76	17.05	Peak
2	5650.000	64.91	68.21	-3.30	47.84	17.07	Peak
3	5725.000	80.20	122.20	-42.00	62.82	17.38	Peak
4	5740.000	116.18	------	------	98.75	17.43	Peak
5	5860.000	66.96	109.40	-42.44	49.35	17.61	Peak
6	5925.000	62.80	68.21	-5.41	45.12	17.68	Peak
7	5927.000	63.94	68.20	-4.26	46.27	17.67	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.

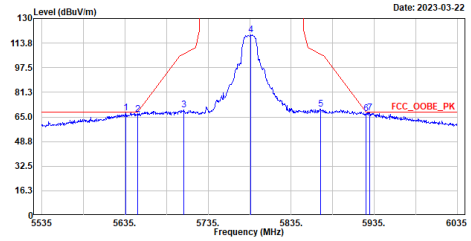
Site :HY-CB03
Condition :3m ,Vertical
Mode :TX_a_5745MHz
Test BY :Ashton



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	5611.000	67.91	68.20	-0.29	50.91	17.00	Peak
2	5650.000	66.36	68.21	-1.85	49.29	17.07	Peak
3	5725.000	79.57	122.20	-42.63	62.19	17.38	Peak
4	5740.500	115.47	------	------	98.04	17.43	Peak
5	5851.500	62.94	118.78	-55.84	45.34	17.60	Peak
6	5925.000	59.53	68.21	-8.68	41.85	17.68	Peak
7	5935.000	59.90	68.20	-8.30	42.22	17.68	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.

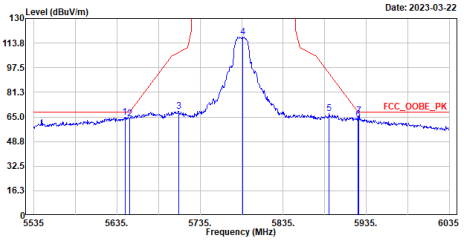
Site :HY-CB03
Condition :3m ,Horizontal
Mode :TX_a_5785MHz
Test BY :Ashton



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	5636.000	67.84	68.20	-0.36	50.80	17.04	Peak
2	5650.000	66.52	68.21	-1.69	49.45	17.07	Peak
3	5705.500	69.53	106.74	-37.21	52.21	17.32	Peak
4	5786.000	119.27	------	------	101.66	17.61	Peak
5	5870.500	70.35	106.46	-36.11	52.72	17.63	Peak
6	5925.000	67.19	68.21	-1.02	49.51	17.68	Peak
7	5929.500	67.88	68.20	-0.32	50.21	17.67	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.

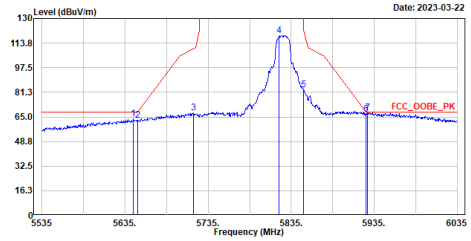
Site :HY-CB03
Condition :3m ,Vertical
Mode :TX_a_5785MHz
Test BY :Ashton



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	5644.500	64.65	68.20	-3.55	47.59	17.06	Peak
2	5650.000	63.67	68.21	-4.54	46.60	17.07	Peak
3	5709.000	68.53	107.72	-39.19	51.20	17.33	Peak
4	5786.000	117.87	------	------	100.26	17.61	Peak
5	5890.500	67.33	93.73	-26.40	49.66	17.67	Peak
6	5925.000	63.35	68.21	-4.86	45.67	17.68	Peak
7	5926.000	65.73	68.20	-2.47	48.06	17.67	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.

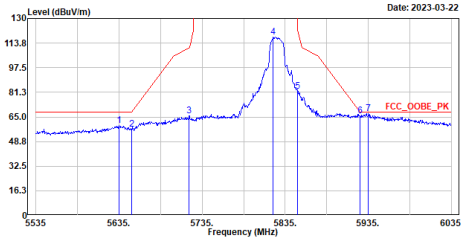
Site :HY-CB03
Condition :3m ,Horizontal
Mode :TX_a_5825MHz
Test BY :Ashton



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	5645.000	63.56	68.20	-4.64	46.50	17.06	Peak
2	5650.000	62.73	68.21	-5.48	45.66	17.07	Peak
3	5717.500	67.55	110.10	-42.55	50.20	17.35	Peak
4	5820.500	118.76	------	------	101.10	17.66	Peak
5	5850.000	83.06	122.20	-39.14	65.46	17.60	Peak
6	5925.000	66.57	68.21	-1.64	48.89	17.68	Peak
7	5926.500	67.85	68.20	-0.35	50.18	17.67	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-CB03
Condition :3m ,Vertical
Mode :TX_a_5825MHz
Test BY :Ashton

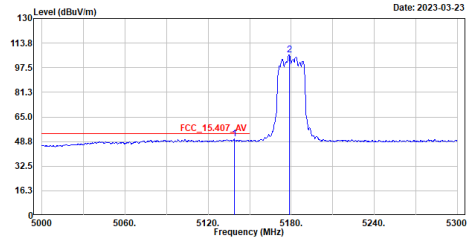


No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	5635.000	59.16	68.20	-9.04	42.12	17.04	Peak
2	5650.000	57.03	68.21	-11.18	39.96	17.07	Peak
3	5719.500	65.74	110.66	-44.92	48.37	17.37	Peak
4	5820.500	117.66	------	------	100.00	17.66	Peak
5	5850.000	82.11	122.20	-40.09	64.51	17.60	Peak
6	5925.000	65.86	68.21	-2.35	48.18	17.68	Peak
7	5935.000	67.10	68.20	-1.10	49.42	17.68	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.

MIMO

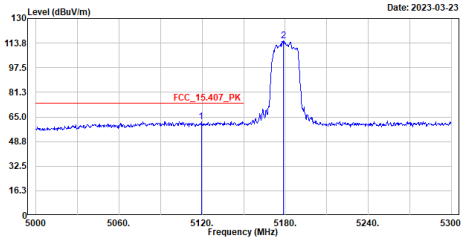
Site :HY-CB03
Condition :3m ,Horizontal
Mode :TX_ac20_5180MHz
Test BY :Ashton



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	5138.900	50.30	54.00	-3.70	34.50	15.80	Average
2	5178.500	105.97	------	------	90.15	15.82	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.

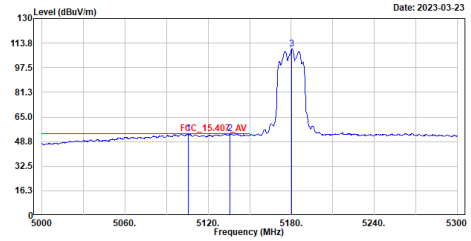
Site :HY-CB03
Condition :3m ,Horizontal
Mode :TX_ac20_5180MHz
Test BY :Ashton



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	5119.400	61.94	74.00	-12.06	46.16	15.78	Peak
2	5178.800	115.30	------	------	99.48	15.82	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.

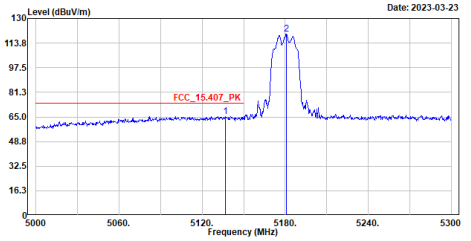
Site :HY-CB03
Condition :3m ,Vertical
Mode :TX_ac20_5180MHz
Test BY :Ashton



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	5105.600	53.74	54.00	-0.26	37.97	15.77	Average
2	5135.600	53.81	54.00	-0.19	38.02	15.79	Average
3	5180.600	109.82	------	------	94.00	15.82	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.

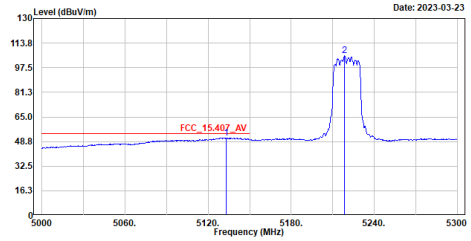
Site :HY-CB03
Condition :3m ,Vertical
Mode :TX_ac20_5180MHz
Test BY :Ashton



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	5137.100	65.46	74.00	-8.54	49.66	15.80	Peak
2	5180.900	119.74	------	------	103.92	15.82	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.

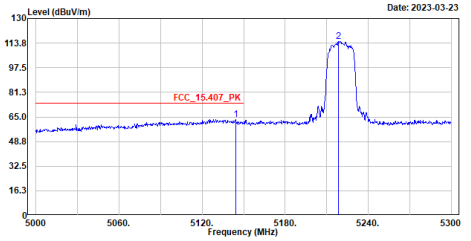
Site :HY-CB03
Condition :3m ,Horizontal
Mode :TX_ac20_5220MHz
Test BY :Ashton



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	5133.200	51.23	54.00	-2.77	35.44	15.79	Average
2	5218.700	105.35	------	------	89.61	15.74	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.

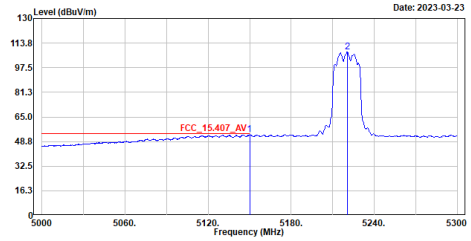
Site :HY-CB03
Condition :3m ,Horizontal
Mode :TX_ac20_5220MHz
Test BY :Ashton



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	5144.300	63.17	74.00	-10.83	47.37	15.80	Peak
2	5218.700	114.71	------	------	98.97	15.74	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.

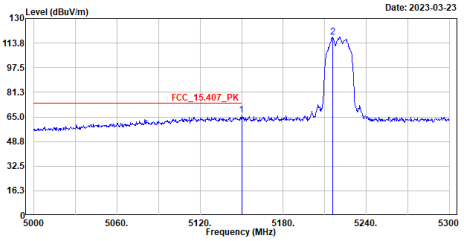
Site :HY-CB03
Condition :3m ,Vertical
Mode :TX_ac20_5220MHz
Test BY :Ashton



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	5150.000	53.36	54.00	-0.64	37.54	15.82	Average
2	5220.500	108.15	------	------	92.42	15.73	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.

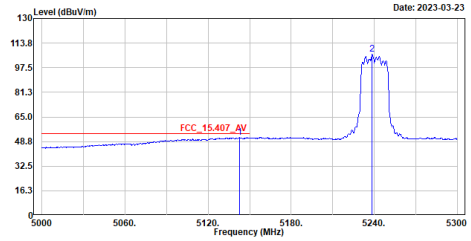
Site :HY-CB03
Condition :3m ,Vertical
Mode :TX_ac20_5220MHz
Test BY :Ashton



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	5150.000	66.00	74.00	-8.00	50.18	15.82	Peak
2	5215.700	117.87	------	------	102.12	15.75	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.

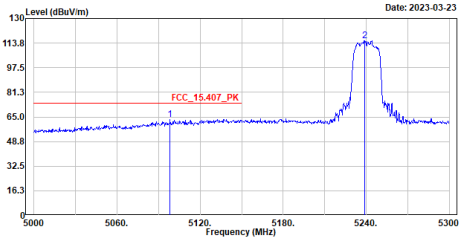
Site :HY-CB03
Condition :3m ,Horizontal
Mode :TX_ac20_5240MHz_B1
Test BY :Ashton



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	5142.800	51.31	54.00	-2.69	35.51	15.80	Average
2	5238.500	106.22	------	------	90.58	15.64	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.

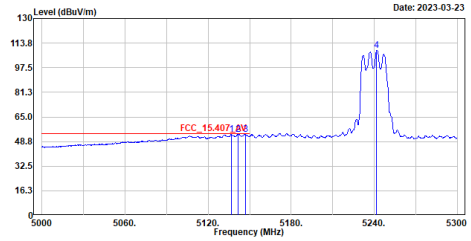
Site :HY-CB03
Condition :3m ,Horizontal
Mode :TX_ac20_5240MHz_B1
Test BY :Ashton



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	5098.400	63.52	74.00	-10.48	47.77	15.75	Peak
2	5238.800	115.48	------	------	99.84	15.64	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.

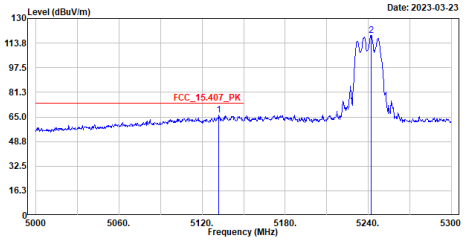
Site :HY-CB03
Condition :3m ,Vertical
Mode :TX_ac20_5240MHz_B1
Test BY :Ashton



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	5136.800	53.35	54.00	-0.65	37.55	15.80	Average
2	5141.600	53.60	54.00	-0.40	37.79	15.81	Average
3	5147.000	53.57	54.00	-0.43	37.76	15.81	Average
4	5241.800	108.77	------	------	93.14	15.63	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.

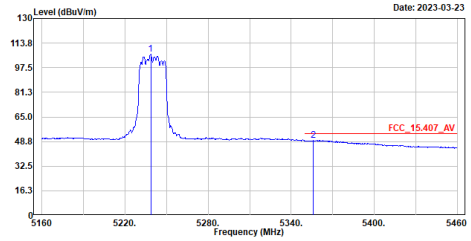
Site :HY-CB03
Condition :3m ,Vertical
Mode :TX_ac20_5240MHz_B1
Test BY :Ashton



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	5132.000	66.19	74.00	-7.81	50.39	15.80	Peak
2	5242.100	118.79	------	------	103.16	15.63	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.

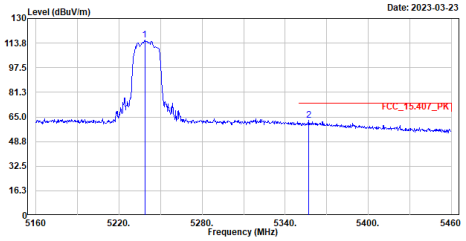
Site :HY-CB03
Condition :3m ,Horizontal
Mode :TX_ac20_5240MHz_B2
Test BY :Ashton



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	5238.600	106.22	------	------	90.58	15.64	Average
2	5355.900	49.58	54.00	-4.42	33.73	15.85	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.

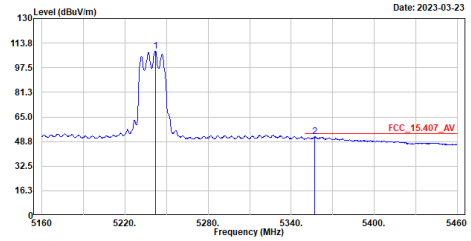
Site :HY-CB03
Condition :3m ,Horizontal
Mode :TX_ac20_5240MHz_B2
Test BY :Ashton



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	5238.600	115.56	------	------	99.92	15.64	Peak
2	5356.800	62.72	74.00	-11.28	46.86	15.86	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.

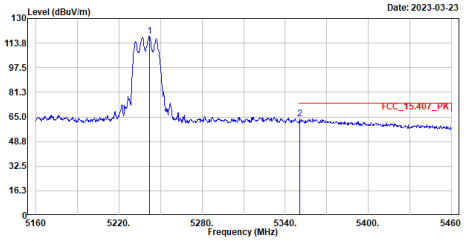
Site :HY-CB03
Condition :3m ,Vertical
Mode :TX_ac20_5240MHz_B2
Test BY :Ashton



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	5242.200	108.60	------	------	92.97	15.63	Average
2	5356.800	51.88	54.00	-2.12	36.02	15.86	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.

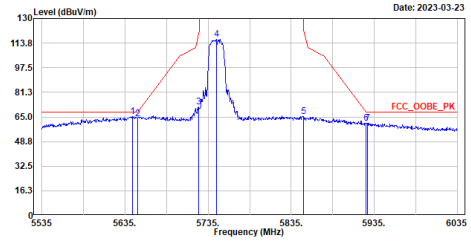
Site :HY-CB03
Condition :3m ,Vertical
Mode :TX_ac20_5240MHz_B2
Test BY :Ashton



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	5241.900	118.35	------	------	102.72	15.63	Peak
2	5350.500	63.87	74.00	-10.13	48.02	15.85	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.

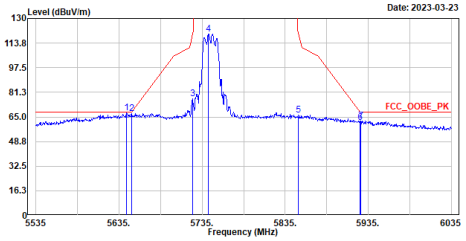
Site :HY-CB03
Condition :3m ,Horizontal
Mode :TX_ac20_5745MHz
Test BY :Ashton



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	5644.000	65.33	68.20	-2.87	48.27	17.06	Peak
2	5650.000	63.98	68.21	-4.23	46.91	17.07	Peak
3	5723.500	71.79	118.78	-46.99	54.41	17.38	Peak
4	5745.000	116.05	------	------	98.60	17.45	Peak
5	5850.000	65.33	122.20	-56.87	47.73	17.60	Peak
6	5925.000	60.62	68.21	-7.59	42.94	17.68	Peak
7	5926.500	60.98	68.20	-7.22	43.31	17.67	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.

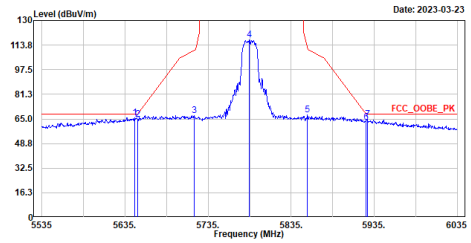
Site :HY-CB03
Condition :3m ,Vertical
Mode :TX_ac20_5745MHz
Test BY :Ashton



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	5644.000	67.84	68.20	-0.36	50.78	17.06	Peak
2	5650.000	67.09	68.21	-1.12	50.02	17.07	Peak
3	5723.500	76.94	118.78	-41.84	59.56	17.38	Peak
4	5742.500	119.74	------	------	102.30	17.44	Peak
5	5850.500	66.06	121.06	-55.00	48.46	17.60	Peak
6	5925.000	61.47	68.21	-6.74	43.79	17.68	Peak
7	5926.000	62.40	68.20	-5.80	44.73	17.67	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.

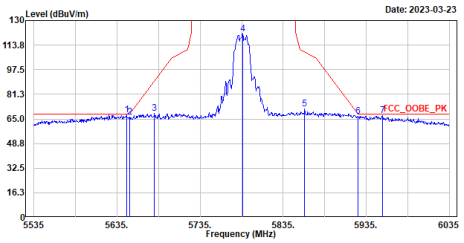
Site :HY-CB03
Condition :3m ,Horizontal
Mode :TX_ac20_5785MHz
Test BY :Ashton



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	5647.000	65.85	68.20	-2.35	48.79	17.06	Peak
2	5650.000	64.91	68.21	-3.30	47.84	17.07	Peak
3	5718.000	67.21	110.24	-43.03	49.84	17.37	Peak
4	5784.500	117.14	------	------	99.53	17.61	Peak
5	5854.500	67.77	111.94	-44.17	50.16	17.61	Peak
6	5925.000	63.03	68.21	-5.18	45.35	17.68	Peak
7	5926.500	64.53	68.20	-3.67	46.86	17.67	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.

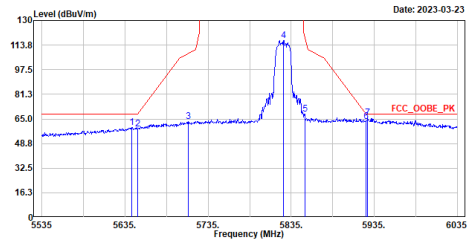
Site :HY-CB03
Condition :3m ,Vertical
Mode :TX_ac20_5785MHz
Test BY :Ashton



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	5646.500	67.90	68.20	-0.30	50.84	17.06	Peak
2	5650.000	66.09	68.21	-2.12	49.02	17.07	Peak
3	5680.000	68.49	90.40	-21.91	51.34	17.15	Peak
4	5786.000	121.35	------	------	103.74	17.61	Peak
5	5861.000	71.53	109.12	-37.59	53.91	17.62	Peak
6	5925.000	66.74	68.21	-1.47	49.06	17.68	Peak
7	5955.000	67.07	68.20	-1.13	49.39	17.68	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.

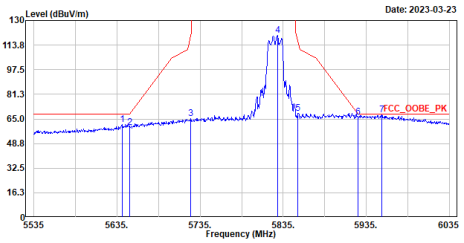
Site :HY-CB03
Condition :3m ,Horizontal
Mode :TX_ac20_5825MHz
Test BY :Ashton



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	5643.500	59.24	68.20	-8.96	42.18	17.06	Peak
2	5650.000	58.46	68.21	-9.75	41.39	17.07	Peak
3	5711.000	63.18	108.28	-45.10	45.85	17.33	Peak
4	5826.000	116.72	------	------	99.07	17.65	Peak
5	5851.500	68.39	118.78	-50.39	50.79	17.60	Peak
6	5925.000	63.24	68.21	-4.97	45.56	17.68	Peak
7	5927.000	65.63	68.20	-2.57	47.96	17.67	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.

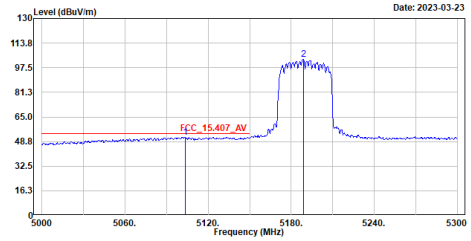
Site :HY-CB03
Condition :3m ,Vertical
Mode :TX_ac20_5825MHz
Test BY :Ashton



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	5641.000	61.24	68.20	-6.96	44.18	17.06	Peak
2	5650.000	59.52	68.21	-8.69	42.45	17.07	Peak
3	5723.500	65.26	118.78	-53.52	47.88	17.38	Peak
4	5828.000	119.98	------	------	102.33	17.65	Peak
5	5853.000	68.83	115.36	-46.53	51.22	17.61	Peak
6	5925.000	66.43	68.21	-1.78	48.75	17.68	Peak
7	5954.000	67.76	68.20	-0.44	50.08	17.68	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.

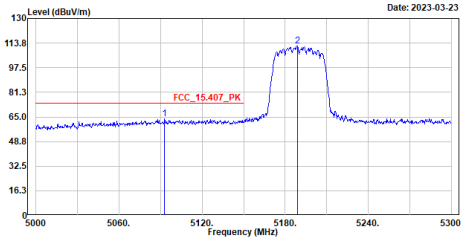
Site :HY-CB03
Condition :3m ,Horizontal
Mode :TX_ac40_5190MHz
Test BY :Ashton



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	5103.500	51.57	54.00	-2.43	35.82	15.75	Average
2	5188.700	103.17	------	------	87.35	15.82	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.

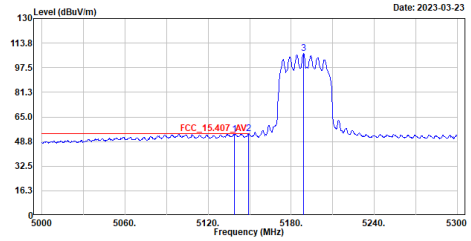
Site :HY-CB03
Condition :3m ,Horizontal
Mode :TX_ac40_5190MHz
Test BY :Ashton



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	5093.000	63.57	74.00	-10.43	47.85	15.72	Peak
2	5188.700	112.02	------	------	96.20	15.82	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.

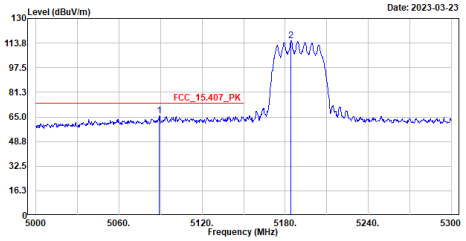
Site :HY-CB03
Condition :3m ,Vertical
Mode :TX_ac40_5190MHz
Test BY :Ashton



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	5139.200	53.69	54.00	-0.31	37.89	15.80	Average
2	5149.100	53.79	54.00	-0.21	37.99	15.80	Average
3	5189.000	106.76	------	------	90.94	15.82	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.

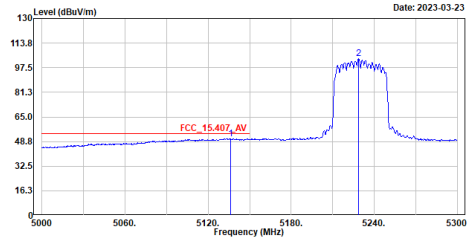
Site :HY-CB03
Condition :3m ,Vertical
Mode :TX_ac40_5190MHz
Test BY :Ashton



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	5089.100	65.53	74.00	-8.47	49.83	15.70	Peak
2	5184.200	115.45	------	------	99.63	15.82	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.

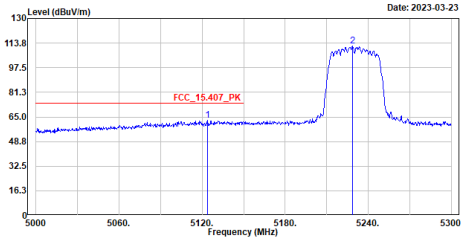
Site :HY-CB03
Condition :3m ,Horizontal
Mode :TX_ac40_5230MHz_B1
Test BY :Ashton



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	5136.200	50.70	54.00	-3.30	34.90	15.80	Average
2	5228.900	103.40	------	------	87.70	15.70	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.

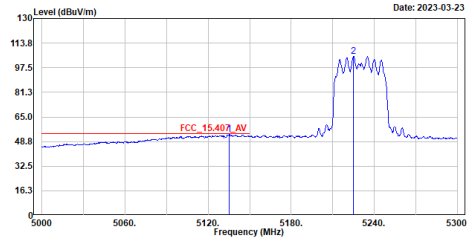
Site :HY-CB03
Condition :3m ,Horizontal
Mode :TX_ac40_5230MHz_B1
Test BY :Ashton



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	5124.200	62.69	74.00	-11.31	46.91	15.78	Peak
2	5228.900	111.75	------	------	96.05	15.70	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.

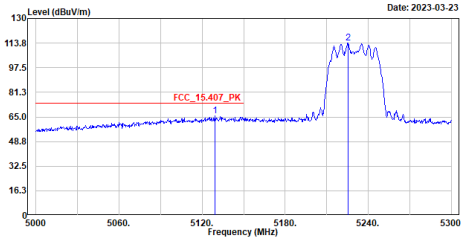
Site :HY-CB03
Condition :3m ,Vertical
Mode :TX_ac40_5230MHz_B1
Test BY :Ashton



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	5135.000	53.64	54.00	-0.36	37.85	15.79	Average
2	5225.000	105.13	------	------	89.43	15.70	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.

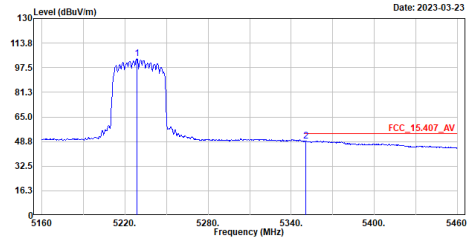
Site :HY-CB03
Condition :3m ,Vertical
Mode :TX_ac40_5230MHz_B1
Test BY :Ashton



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	5129.300	65.53	74.00	-8.47	49.74	15.79	Peak
2	5225.300	114.04	------	------	98.34	15.70	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.

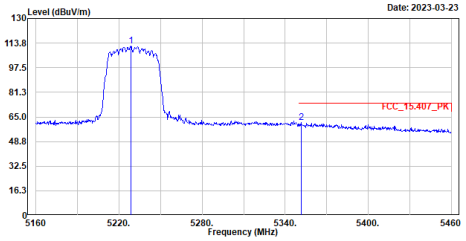
Site :HY-CB03
Condition :3m ,Horizontal
Mode :TX_ac40_5230MHz_B2
Test BY :Ashton



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	5228.400	103.49	------	------	87.80	15.69	Average
2	5350.800	49.21	54.00	-4.79	33.36	15.85	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.

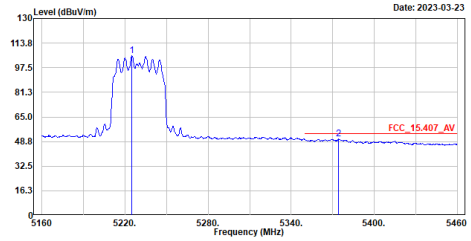
Site :HY-CB03
Condition :3m ,Horizontal
Mode :TX_ac40_5230MHz_B2
Test BY :Ashton



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	5228.400	111.84	------	------	96.15	15.69	Peak
2	5351.400	61.26	74.00	-12.74	45.41	15.85	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.

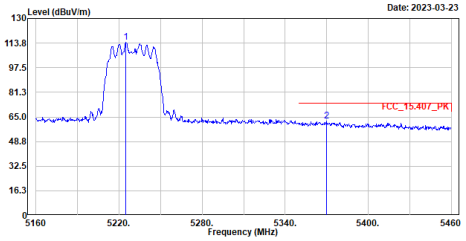
Site :HY-CB03
Condition :3m ,Vertical
Mode :TX_ac40_5230MHz_B2
Test BY :Ashton



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	5225.100	105.33	------	------	89.63	15.70	Average
2	5374.200	50.68	54.00	-3.32	34.80	15.88	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.

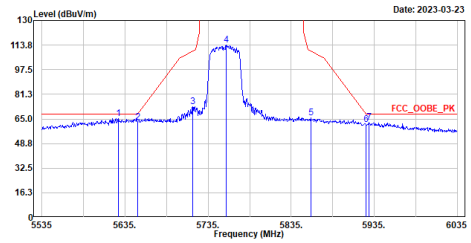
Site :HY-CB03
Condition :3m ,Vertical
Mode :TX_ac40_5230MHz_B2
Test BY :Ashton



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	5225.100	114.09	------	------	98.39	15.70	Peak
2	5369.700	62.37	74.00	-11.63	46.50	15.87	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.

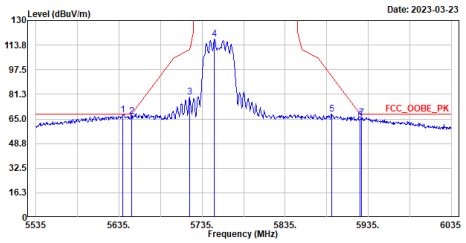
Site :HY-CB03
Condition :3m ,Horizontal
Mode :TX_ac40_5755MHz
Test BY :Ashton



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	5627.000	65.36	68.20	-2.84	48.33	17.03	Peak
2	5650.000	62.97	68.21	-5.24	45.90	17.07	Peak
3	5716.500	73.29	109.82	-36.53	55.94	17.35	Peak
4	5757.000	114.03	------	------	96.55	17.48	Peak
5	5858.500	65.92	109.82	-43.90	48.30	17.62	Peak
6	5925.000	61.16	68.21	-7.05	43.48	17.68	Peak
7	5929.000	62.62	68.20	-5.58	44.95	17.67	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.

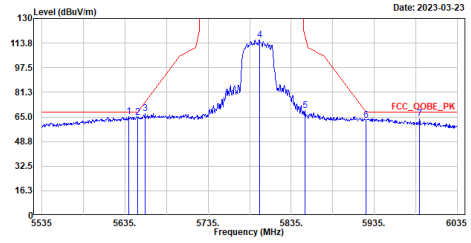
Site :HY-CB03
Condition :3m ,Vertical
Mode :TX_ac40_5755MHz
Test BY :Ashton



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	5640.000	67.80	68.20	-0.40	50.75	17.05	Peak
2	5650.000	66.71	68.21	-1.50	49.64	17.07	Peak
3	5720.000	79.43	110.80	-31.37	62.06	17.37	Peak
4	5750.000	117.59	------	------	100.13	17.46	Peak
5	5891.000	68.39	93.36	-24.97	50.72	17.67	Peak
6	5925.000	64.30	68.21	-3.91	46.62	17.68	Peak
7	5926.500	65.83	68.20	-2.37	48.16	17.67	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.

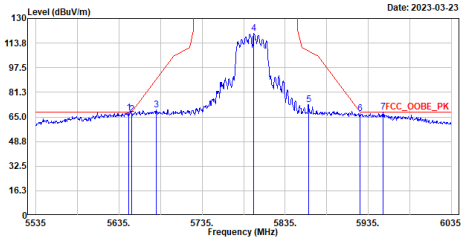
Site :HY-CB03
Condition :3m ,Horizontal
Mode :TX_ac40_5795MHz
Test BY :Ashton



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	5639.500	65.16	68.20	-3.04	48.11	17.05	Peak
2	5650.000	64.74	68.21	-3.47	47.67	17.07	Peak
3	5659.000	67.35	74.87	-7.52	50.26	17.09	Peak
4	5797.000	115.88	------	------	98.22	17.66	Peak
5	5851.500	69.39	118.78	-49.39	51.79	17.60	Peak
6	5925.000	62.65	68.21	-5.56	44.97	17.68	Peak
7	5989.500	63.65	68.20	-4.55	45.97	17.68	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.

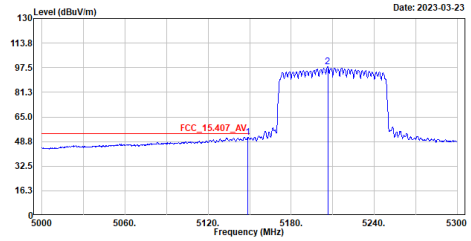
Site :HY-CB03
Condition :3m ,Vertical
Mode :TX_ac40_5795MHz
Test BY :Ashton



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	5646.500	67.57	68.20	-0.63	50.51	17.06	Peak
2	5650.000	66.69	68.21	-1.52	49.62	17.07	Peak
3	5679.500	69.81	90.03	-20.22	52.66	17.15	Peak
4	5797.500	120.15	------	------	102.48	17.67	Peak
5	5863.000	73.33	108.56	-35.23	55.70	17.63	Peak
6	5925.000	67.43	68.21	-0.78	49.75	17.68	Peak
7	5953.000	68.16	68.20	-0.04	50.48	17.68	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.

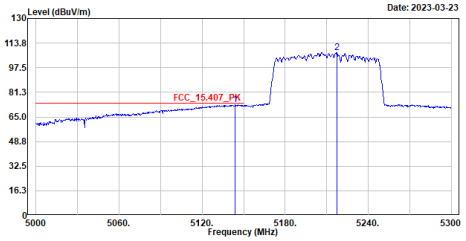
Site :HY-CB03
Condition :3m ,Horizontal
Mode :TX_ac80_5210MHz
Test BY :Ashton



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	5148.800	51.75	54.00	-2.25	35.95	15.80	Average
2	5206.400	97.97	------	------	82.18	15.79	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.

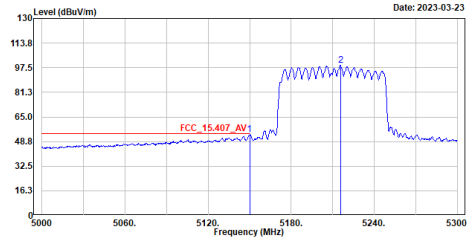
Site :HY-CB03
Condition :3m ,Horizontal
Mode :TX_ac80_5210MHz
Test BY :Ashton



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	5144.000	72.93	74.00	-1.07	57.13	15.80	Peak
2	5217.200	107.51	------	------	91.76	15.75	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.

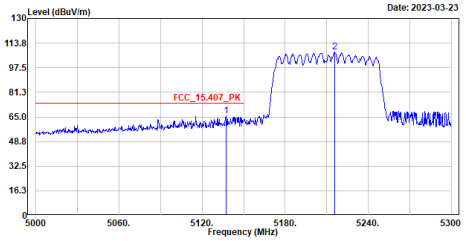
Site :HY-CB03
Condition :3m ,Vertical
Mode :TX_ac80_5210MHz
Test BY :Ashton



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	5150.000	53.58	54.00	-0.42	37.76	15.82	Average
2	5215.700	98.90	------	------	83.15	15.75	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.

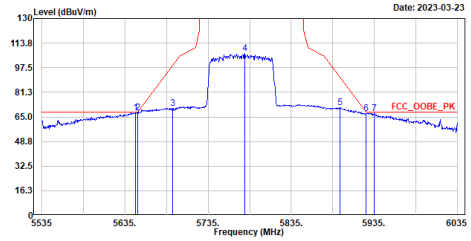
Site :HY-CB03
Condition :3m ,Vertical
Mode :TX_ac80_5210MHz
Test BY :Ashton



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	5137.400	65.51	74.00	-8.49	49.71	15.80	Peak
2	5215.700	107.78	------	------	92.03	15.75	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.

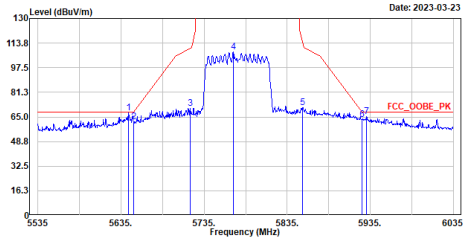
Site :HY-CB03
Condition :3m ,Horizontal
Mode :TX_ac80_5775MHz
Test BY :Ashton



No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	5648.000	67.83	68.20	-0.37	50.76	17.07	Peak
2	5650.000	67.70	68.21	-0.51	50.63	17.07	Peak
3	5692.000	70.79	99.28	-28.49	53.55	17.24	Peak
4	5779.000	106.72	------	------	89.13	17.59	Peak
5	5893.500	70.98	91.51	-20.53	53.30	17.68	Peak
6	5925.000	67.14	68.21	-1.07	49.46	17.68	Peak
7	5935.000	67.44	68.20	-0.76	49.76	17.68	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-CB03
Condition :3m ,Vertical
Mode :TX_ac80_5775MHz
Test BY :Ashton

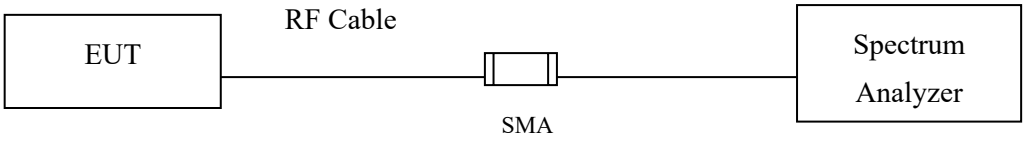


No.	Frequency	Level	Limit Line	Over Limit	Read Level	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	5644.000	67.80	68.20	-0.40	50.74	17.06	Peak
2	5650.000	61.75	68.21	-6.46	44.68	17.07	Peak
3	5718.500	70.86	110.38	-39.52	53.49	17.37	Peak
4	5770.000	108.00	------	------	90.46	17.54	Peak
5	5853.500	71.01	114.22	-43.21	53.40	17.61	Peak
6	5925.000	63.11	68.21	-5.10	45.43	17.68	Peak
7	5930.500	65.12	68.20	-3.08	47.45	17.67	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

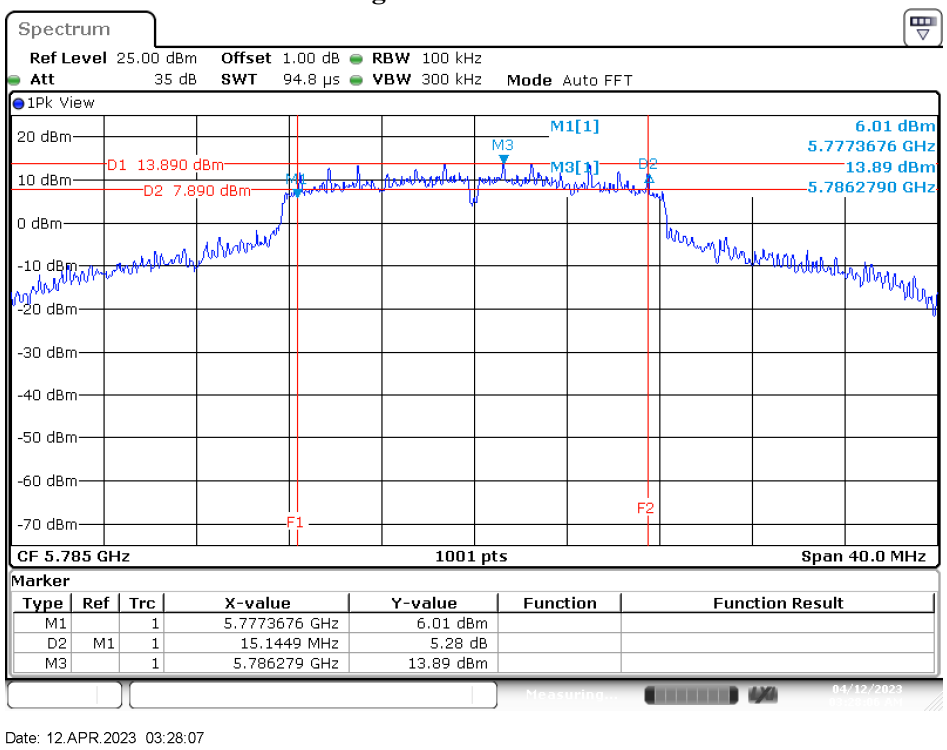
The EUT was setup to ANSI C63.10, 2013; tested to UNII test procedure of FCC KDB-789033 for compliance to FCC 47CFR Subpart E requirements.

7.4. Test Result of Occupied Bandwidth

Product : 5G Enterprise Router
Test Item : Occupied Bandwidth Data
Test Mode : Transmit (802.11a)
Test Date : 2023/04/12

Channel No.	Chain	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
149	A	5745	15105	>500	Pass
157	A	5785	15145	>500	Pass
165	A	5825	15145	>500	Pass

Figure Channel 157:

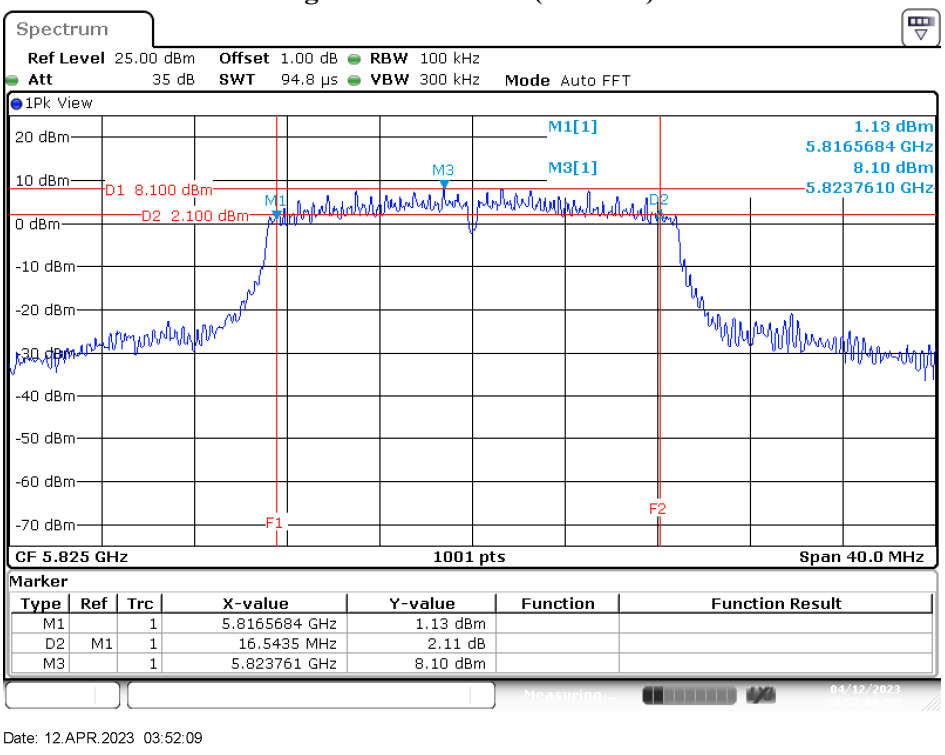


Date: 12.APR.2023 03:28:07

Product : 5G Enterprise Router
Test Item : Occupied Bandwidth Data
Test Mode : Transmit (802.11ac-20 MHz)
Test Date : 2023/04/12

Channel No.	Chain	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
149	A	5745	15065	>500	Pass
157	A	5785	15105	>500	Pass
165	A	5825	15105	>500	Pass
149	B	5745	16544	>500	Pass
157	B	5785	16304	>500	Pass
165	B	5825	16544	>500	Pass
149	C	5745	15305	>500	Pass
157	C	5785	15664	>500	Pass
165	C	5825	15704	>500	Pass
149	D	5745	15105	>500	Pass
157	D	5785	15105	>500	Pass
165	D	5825	15944	>500	Pass

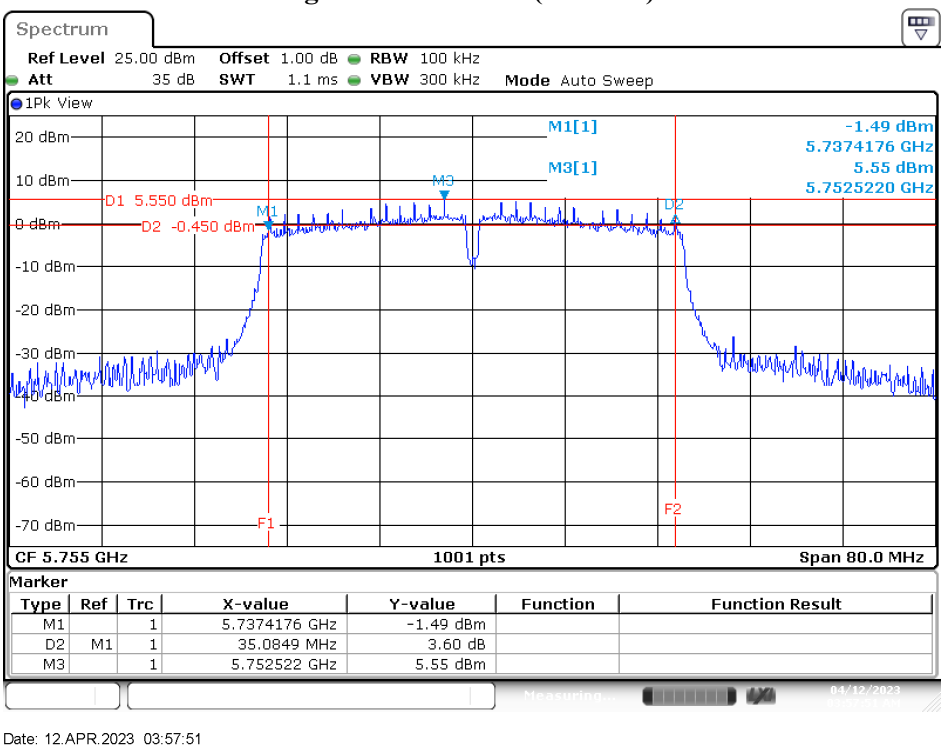
Figure Channel 165 (Chain B):



Product : 5G Enterprise Router
Test Item : Occupied Bandwidth Data
Test Mode : Transmit (802.11ac-40 MHz)
Test Date : 2023/04/12

Channel No.	Chain	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
151	A	5755	35085	>500	Pass
159	A	5795	35085	>500	Pass
151	B	5755	35005	>500	Pass
159	B	5795	35085	>500	Pass
151	C	5755	35005	>500	Pass
159	C	5795	35085	>500	Pass
151	D	5755	35005	>500	Pass
159	D	5795	35085	>500	Pass

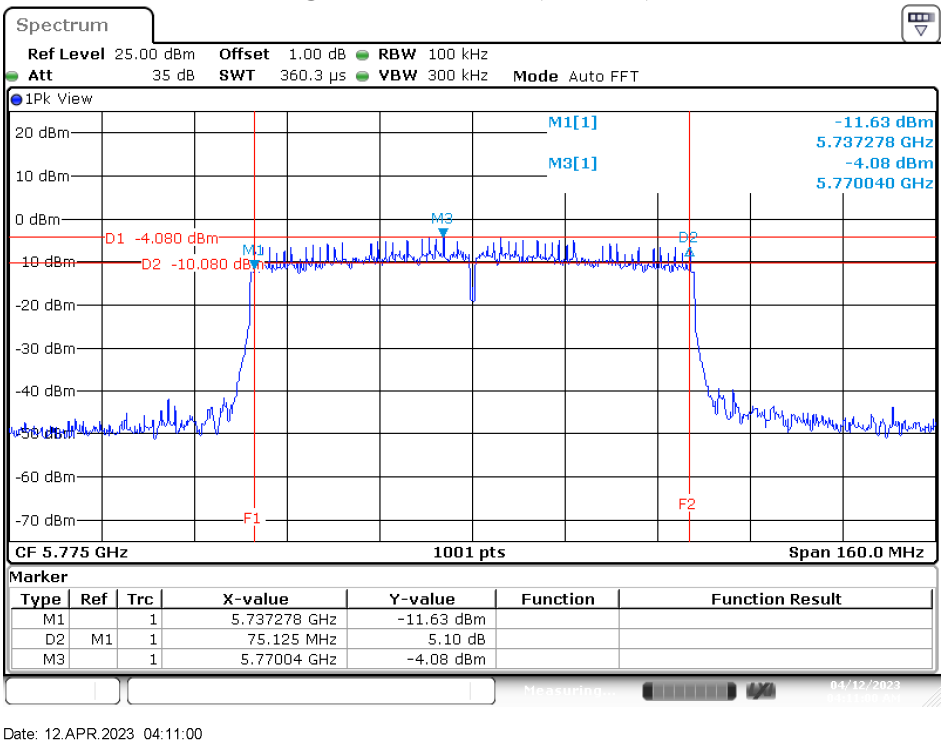
Figure Channel 151 (Chain A):



Product : 5G Enterprise Router
Test Item : Occupied Bandwidth Data
Test Mode : Transmit (802.11ac-80 MHz)
Test Date : 2023/04/12

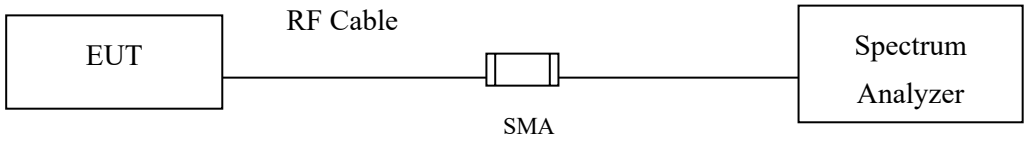
Channel No.	Chain	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
155	A	5775	75125	>500	Pass
155	B	5775	75125	>500	Pass
155	C	5775	74965	>500	Pass
155	D	5775	75125	>500	Pass

Figure Channel 155 (Chain A):



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.

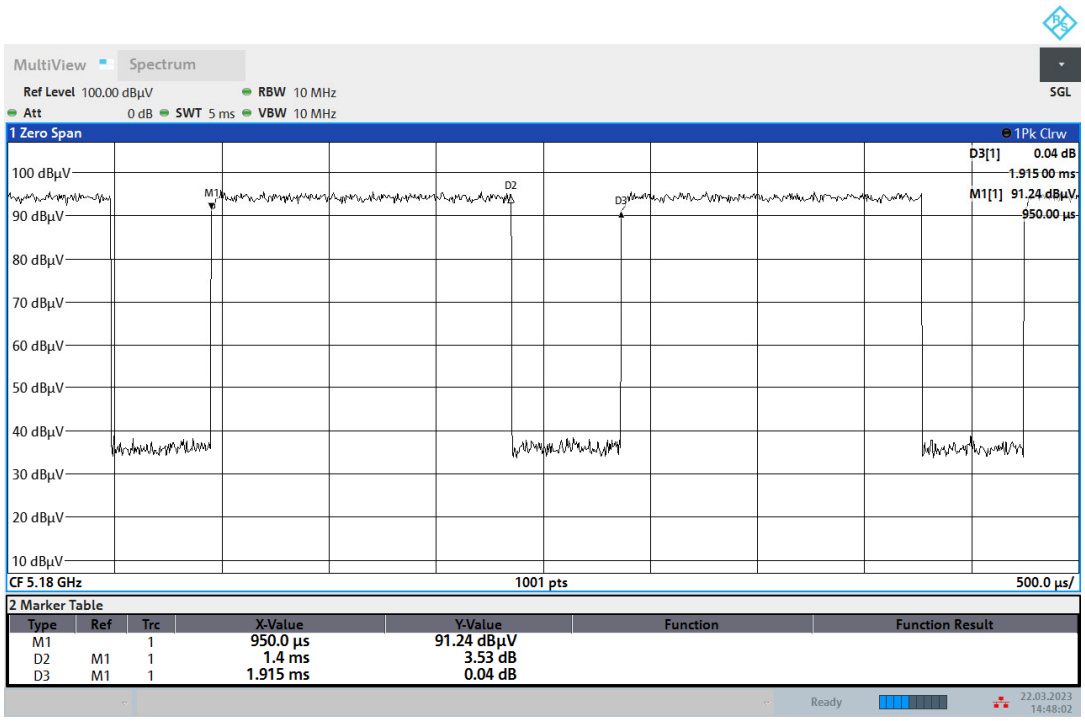
8.3. Test Result of Duty Cycle

Product : 5G Enterprise Router
Test Item : Duty Cycle
Test Mode : Transmit

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

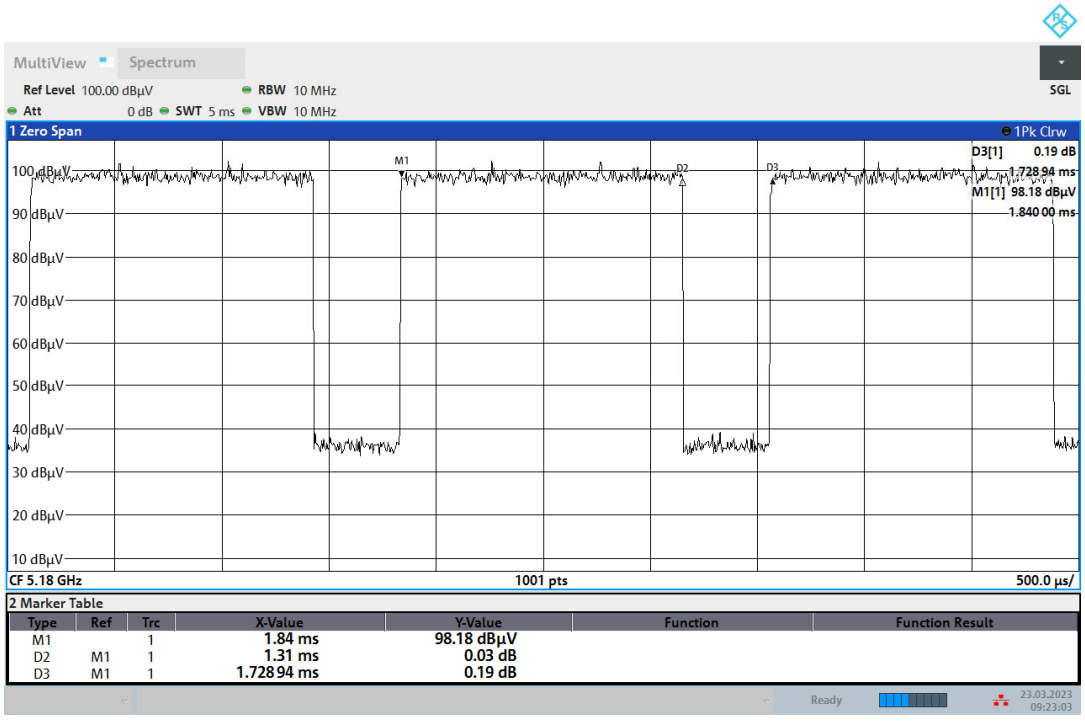
5GHz band	Ton (ms)	Ton + Toff (ms)	Duty Cycle (%)	Duty Factor (dB)
802.11a	1.4000	1.9150	73.11	1.36
802.11ac-20 MHz	1.3100	1.7289	75.77	1.21
802.11ac-40 MHz	0.6550	0.9900	66.16	1.79
802.11ac-80 MHz	0.3230	0.7410	43.59	3.61

802.11a



14:48:03 22.03.2023

802.11ac20



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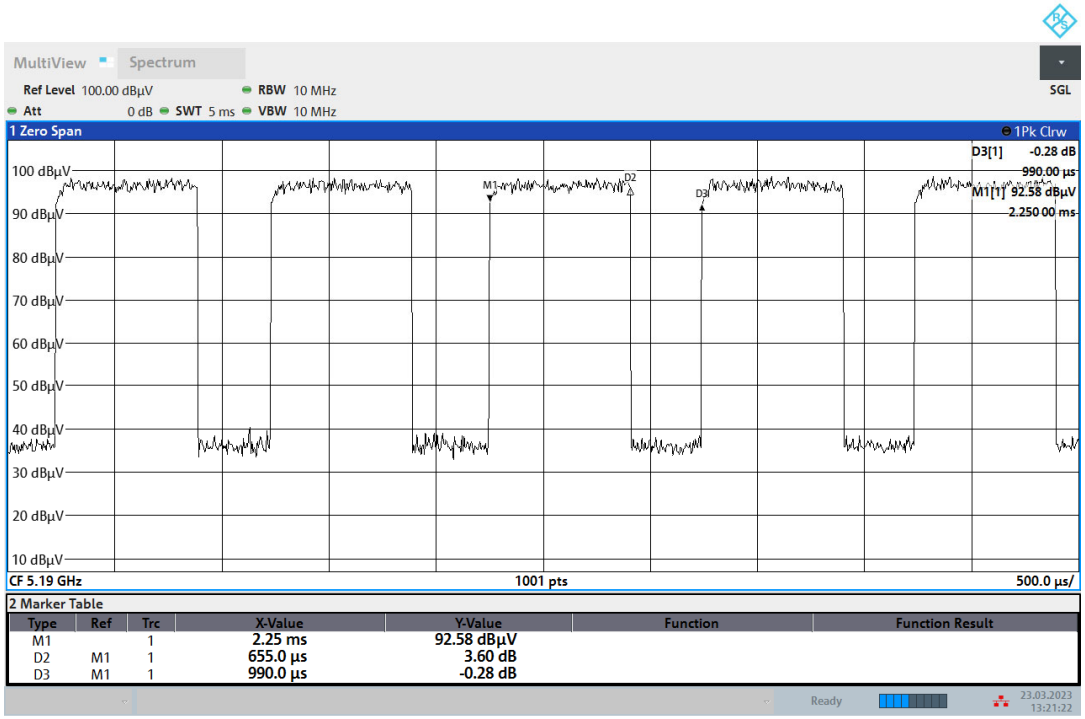

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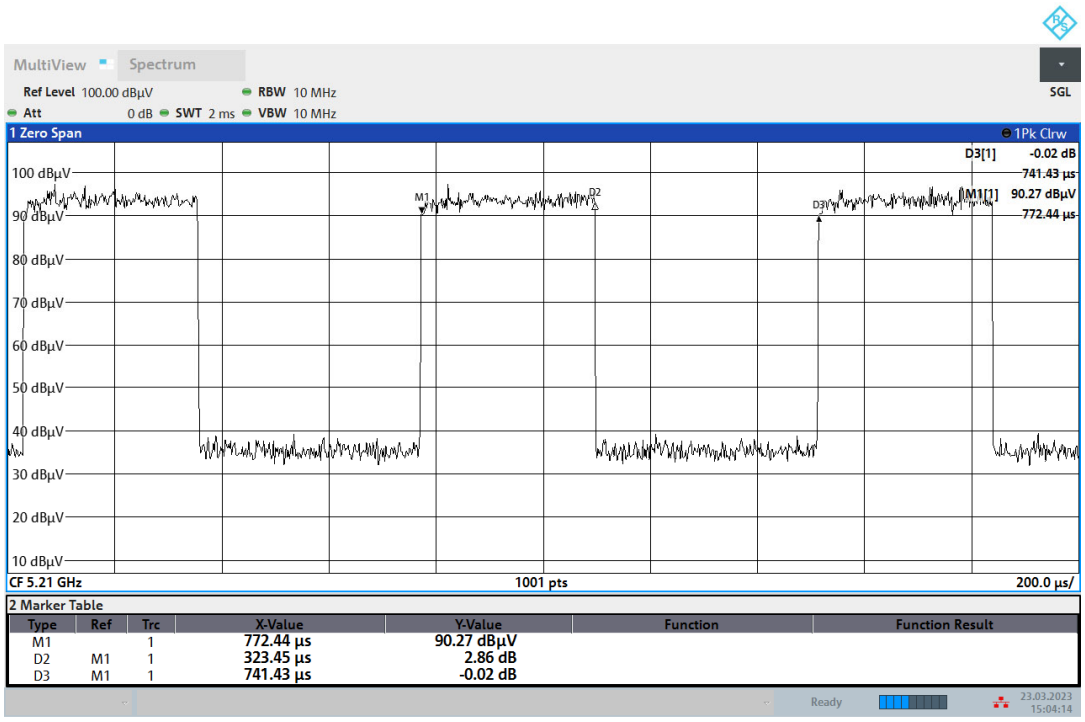

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