



Test report No.: 2331009R-RFUSV03S-A

TEST REPORT (Class II Permissive Change)

Product Name	Wireless-AXE11000 Tri-band Gigabit Router, ROG Rapture Tri-band Gaming Router, ROG Rapture GT-AXE11000 tri-band Gaming Router, WiFi 6E ROG Rapture GT-AXE11000 Tri-band Gaming Router
Trademark	ASUS
Model and /or type reference	GT-AXE11000
FCC ID	MSQ-RTAXJF00
Applicant's name / address	ASUSTeK Computer, Inc 1F, No. 15, Lide Rd, Beitou, Taipei, 112 Taiwan
Manufacturer's name	1. ASUSTeK Computer, Inc 2. Kentec Inc. 3. Lukisen Electronic Corp. 4. Lih Rong Electronic Enterprise Co.,Ltd
Test method requested, standard	FCC CFR Title 47 Part 15 Subpart E ANSI C63.4: 2014, ANSI C63.10: 2013
Verdict Summary	IN COMPLIANCE
Documented By (Senior Project Specialist / Genie Chang)	<i>Genie Chang</i>
Tested By (Senior Engineer / Ivan Chuang)	<i>Ivan Chuang</i>
Approved By (Senior Engineer / Jack Hsu)	<i>Jack Hsu</i>
Date of Receipt	2023/03/29
Date of Issue	2023/04/12
Report Version	V1.0

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Appendix 1: EUT Test Photographs

Appendix 2: Product Photos-Please refer to the file: 2331009R-Product Photos

Competences and Guarantees

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

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

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

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

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

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General conditions

1. The test results relate only to the samples tested.
2. The test results shown in the test report are traceable to the national/international standard through the calibration report of the equipment and evaluated measurement uncertainty herein.
3. This report must not be used to claim product endorsement by TAF or any agency of the government.
4. The test report shall not be reproduced without the written approval of DEKRA Testing and Certification Co., Ltd.
5. Measurement uncertainties evaluated for each testing system and associated connections are given here to provide the system information for reference. Compliance determinations do not take into account measurement uncertainties for each testing system, but are based on the results of the compliance measurement.

Revision History

Report No.	Version	Description	Issued Date
2331009R-RFUSV03S-A	V1.0	Initial issue of report.	2023/04/12

1. General Information

1.1. EUT Description

Product Name	Wireless-AXE11000 Tri-band Gigabit Router, ROG Rapture Tri-band Gaming Router, ROG Rapture GT-AXE11000 tri-band Gaming Router, WiFi 6E ROG Rapture GT-AXE11000 Tri-band Gaming Router
Trademark	ASUS
Model and /or type reference	GT-AXE11000
EUT Rated Voltage	AC 100-240V, 50/60Hz
EUT Test Voltage	AC 120V/60Hz
Frequency Range	802.11ax-20 MHz: 6115-7095 MHz, 802.11ax-40 MHz: 6125-7085 MHz 802.11ax-80 MHz: 6145-7025 MHz, 802.11ax-160 MHz: 6185-6985 MHz
Number of Channels	802.11ax-20 MHz: 50 CH, 802.11ax-40 MHz: 25 CH 802.11ax-80 MHz: 12 CH, 802.11ax-160 MHz: 6 CH
Data Rate	802.11ax: up to 4804 MHz
Type of Modulation	OFDM, BPSK, QPSK, 16QAM, 64QAM OFDMA, BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM
Channel Control	Auto
LAN Cable	Shielded, 1.5m
Power Adapter	MFR: AcBel, M/N: ADD011 Input: AC 100-240V~ 1.7A 50-60Hz Output: +19.5V=3.33A 65.0W MAX. Cable Out: Non-shielded, 1.5m Power cord: Non-shielded, 0.9 m

Antenna List

No.	Manufacturer	Part No.	Antenna Type	Peak Gain	Directional gain
1	WHA YU	C660-510535-A	Dipole	3.93 dBi for 5935-7125 MHz	10.24 dBi for 5935-7125 MHz
2	WHA YU	C660-510536-A	Dipole	4.22 dBi for 5935-7125 MHz	
3	WHA YU	C660-510537-A	Dipole	3.95 dBi for 5935-7125 MHz	
4	WHA YU	C660-510538-A	Dipole	3.56 dBi for 5935-7125 MHz	

Note: Directional gain = $G_{ANT MAX} + \text{Array Gain}$, Array Gain = $10 \cdot \log(4) = 6.02 \text{ dB}$

802.11ax-20 MHz Center Working Frequency of Each Channel:

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
33	6115	37	6135	41	6155	45	6175
49	6195	53	6215	57	6235	61	6255
65	6275	69	6295	73	6315	77	6335
81	6355	85	6375	89	6395	93	6415
97	6435	101	6455	105	6475	109	6495
113	6515	117	6535	121	6555	125	6575
129	6595	133	6615	137	6635	141	6655
145	6675	149	6695	153	6715	157	6735
161	6755	165	6775	169	6795	173	6815
177	6835	181	6855	185	6875	189	6895
193	6915	197	6935	201	6955	205	6975
209	6995	213	7015	217	7035	221	7055
225	7075	229	7095	--	--	--	--

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

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
35	6125	43	6165	51	6205	59	6245
67	6285	75	6325	83	6365	91	6405
99	6445	107	6485	115	6525	123	6565
131	6605	139	6645	147	6685	155	6725
163	6765	171	6805	179	6845	187	6885
195	6925	203	6965	211	7005	219	7045
227	7085	--	--	--	--	--	--

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

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
39	6145	55	6225	71	6305	87	6385
103	6465	119	6545	135	6625	151	6705
167	6785	183	6865	199	6945	215	7025

802.11ax- 160MHz Center Working Frequency of Each Channel:

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
47	6185	79	6345	111	6505	143	6665
175	6825	207	6985	--	--	--	--

Note:

1. This device is a Wireless-AXE11000 Tri-band Gigabit Router, ROG Rapture Tri-band Gaming Router, ROG Rapture GT-AXE11000 tri-band Gaming Router, WiFi 6E ROG Rapture GT-AXE11000 Tri-band Gaming Router with built-in WLAN transceiver, this report for WLAN 6GHz.
2. The modification is shown as below:
 - Class I change:**
Changing the EUT version to “Rev 2.31” from “Rev 2.10”. The Rev 2.31 changes the trace of CON56 (The ant. 9 has receiving function only), and as a result its trace became longer.
 - Class II Change:**
Updating the antenna gain for the third set antennas, to reflect that the third set of antennas has a higher gain than the original model in UNII5-8.
3. Regarding to the operation frequency, the lowest, middle and highest frequency are selected to perform the test.
4. Lowest data rates are tested in each mode. Only worst case is shown in the report. (802.11ax-20 MHz / 40 MHz / 80 MHz / 160 MHz is MCS0).
5. The spectrum plot against conducted item only shows the worst case.
6. These tests were conducted on a sample for the purpose of demonstrating compliance of 802.11ax transmitter with Part 15 Subpart E for Unlicensed National Information Infrastructure devices.

Test Mode	Mode 1	Transmit (802.11ax-20 MHz_Non-Beamforming)
		Transmit (802.11ax-40 MHz_Non-Beamforming)
		Transmit (802.11ax-80 MHz_Non-Beamforming)
		Transmit (802.11ax-160 MHz_Non-Beamforming)
		Transmit (802.11ax-20 MHz-Beamforming)
		Transmit (802.11ax-40 MHz-Beamforming)
		Transmit (802.11ax-80 MHz-Beamforming)
		Transmit (802.11ax-160 MHz-Beamforming)

1.2. Tested System Details

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

Non-Beamforming

Product	Manufacturer	Model No.	Serial No.	Power Cord
1 Power Adapter	AcBel	ADD011	N/A	N/A
2 LAN Hub	TP-LINK	TL-SG108	2161597000480	Non-shielded, 1.5m
3 Notebook PC	Lenovo	TP00067C	PF-0EW26J	N/A
4 FLASH	Kingston	DT100G3/8GB	N/A	N/A
5 FLASH	Kingston	DT100G3/8GB	N/A	N/A

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

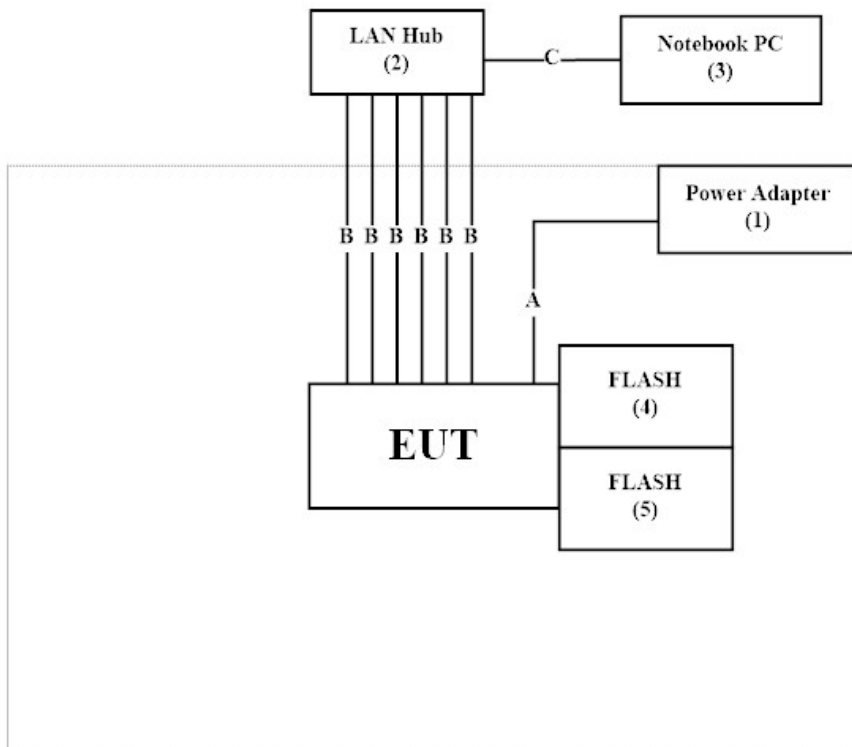
Beamforming

Product	Manufacturer	Model No.	Serial No.	Power Cord
1 Power Adapter	AcBel	ADD011	N/A	N/A
2 LAN Hub	TP-LINK	TL-SG108	2161597000480	Non-shielded, 1.5m
3 Notebook PC	Lenovo	TP00067C	PF-0EW26J	N/A
4 Notebook PC	DELL	Inspiron 15 3000	GT5JPJ2	N/A
5 Wireless-AXE11000 Tri-band Gigabit Router	ASUS	GT-AXE11000	N/A	N/A
6 FLASH	Kingston	DT100G3/8GB	N/A	N/A
7 FLASH	Kingston	DT100G3/8GB	N/A	N/A

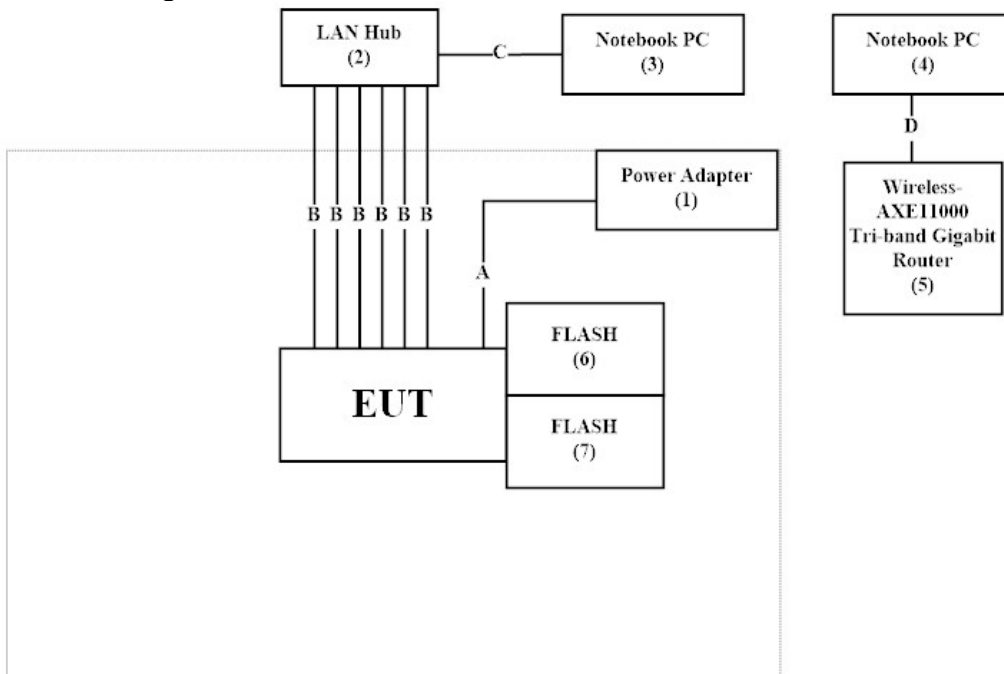
Cable Type	Cable Description
A Power Cable	Non-shielded, 1.5m
B LAN Cable	Non-shielded, 3m, six PCS.
C LAN Cable	Non-shielded, 2m
D LAN Cable	Non-shielded, 2m

1.3. Configuration of tested System

Non-Beamforming



Beamforming



1.4. EUT Exercise Software

1.	Setup the EUT as shown in Section 1.3.
2.	Execute software "AccessMTool Version 3.2.1.4" 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	21.7 °C
	Humidity (%RH)	10~90 %	51.3 %
Radiated Emission	Temperature (°C)	10~40 °C	23.5 °C
	Humidity (%RH)	10~90 %	65.3 %
Conductive	Temperature (°C)	10~40 °C	22.5 °C
	Humidity (%RH)	10~90 %	54.6 %

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 230303 dekra V9.

For Conducted measurements / HY-SR02

	Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Due. Date
	Peak Power Analyzer	KEYSIGHT	8990B	MY51000539	2022/05/27	2023/05/26
	Power Sensor	KEYSIGHT	N1923A	MY59240002	2022/05/19	2023/05/18
	Power Sensor	KEYSIGHT	N1923A	MY59240003	2022/05/19	2023/05/18
V	Spectrum Analyzer	R&S	FSV40	101148	2022/04/28	2023/04/27
V	Vector Signal Generator	R&S	SMBV100A	261757	2022/04/22	2023/04/21

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 V3.0.1.14.

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	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
V	Coaxial Cable	EMCI	EMC102-KM-KM-600	1160314		
	Coaxial Cable	EMCI	EMC102-KM-KM-7000	170242		
V	WIFI 6E Filter	Marvelous Microwave Inc.	MFN-5925.7125.S1	C50001N	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	FSV40	101147	2022/04/28	2023/04/27
V	Coaxial Cable	SGH	SGH18	2021005-1	2023/01/10	2024/01/09
	Coaxial Cable	SGH	SGH18	202108-4		
	Coaxial Cable	SGH	HA800	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 230303 dekra V9.

1.7. Uncertainty

Uncertainties have been calculated according to the DEKRA internal document.

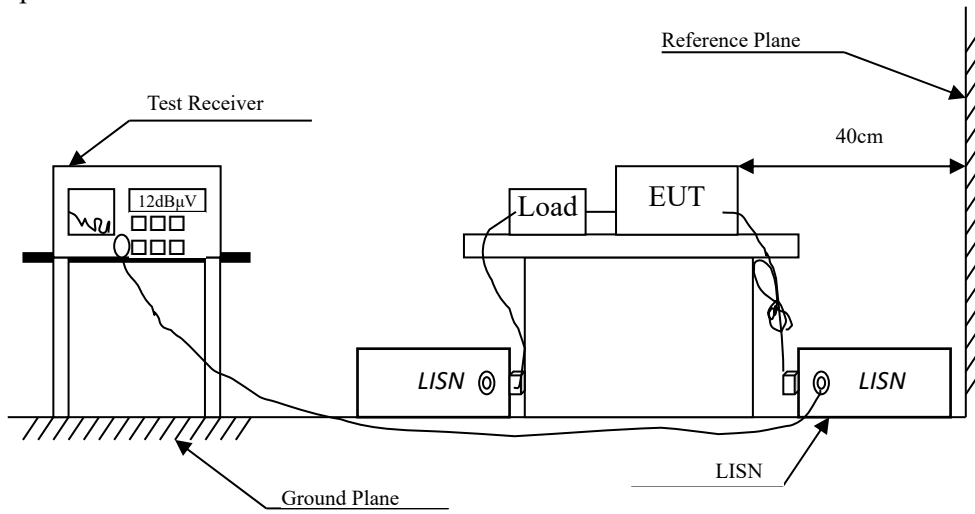
The reported expanded uncertainties are based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95%.

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

Test Item	Uncertainty
Conducted Emission	$\pm 3.50\text{dB}$
99% & 26dB Bandwidth	$\pm 1580.61\text{Hz}$
Transmit Output	9kHz~30MHz: $\pm 3.88\text{dB}$ 30MHz~1GHz: $\pm 4.42\text{dB}$ 1GHz~18GHz: $\pm 4.28\text{dB}$ 18GHz~40GHz: $\pm 3.90\text{dB}$
Peak Power Spectrum Density	9kHz~30MHz: $\pm 3.88\text{dB}$ 30MHz~1GHz: $\pm 4.42\text{dB}$ 1GHz~18GHz: $\pm 4.28\text{dB}$ 18GHz~40GHz: $\pm 3.90\text{dB}$
Radiated Emission	9kHz~30MHz: $\pm 3.88\text{dB}$ 30MHz~1GHz: $\pm 4.42\text{dB}$ 1GHz~18GHz: $\pm 4.28\text{dB}$ 18GHz~40GHz: $\pm 3.90\text{dB}$
Band Edge	9kHz~30MHz: $\pm 3.88\text{dB}$ 30MHz~1GHz: $\pm 4.42\text{dB}$ 1GHz~18GHz: $\pm 4.28\text{dB}$ 18GHz~40GHz: $\pm 3.90\text{dB}$
In-Band Emission (Mask)	$\pm 1580.61\text{Hz}$
Contention Based Protocol	$\pm 0.53\%$

2. Conducted Emission

2.1. Test Setup



2.2. Limits

FCC CFR Title 47 Part 15 Subpart C Paragraph 15.207 Limits (dB μ V)		
Frequency MHz	QP	AV
0.15 - 0.50	66 - 56	56 - 46
0.50 - 5.0	56	46
5.0 - 30	60	50

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

2.3. Test Procedure

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

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

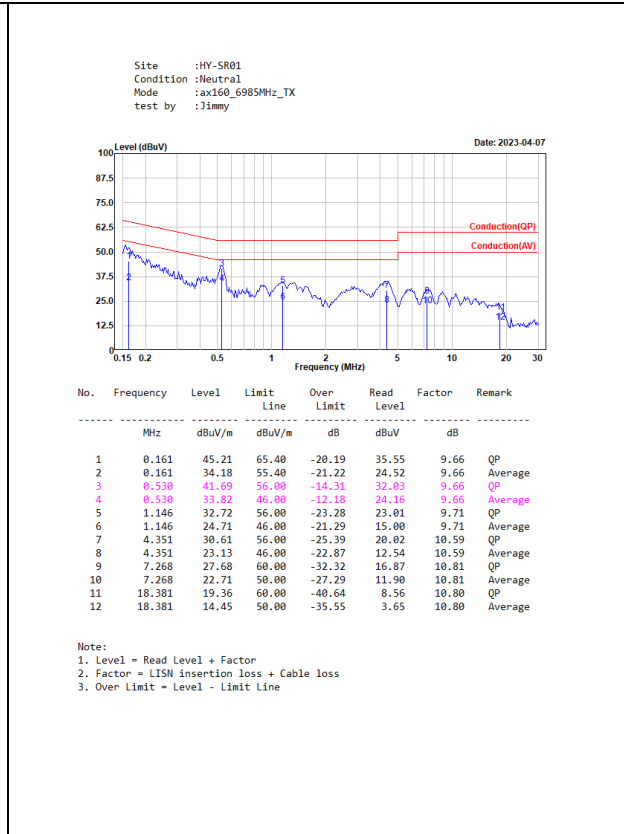
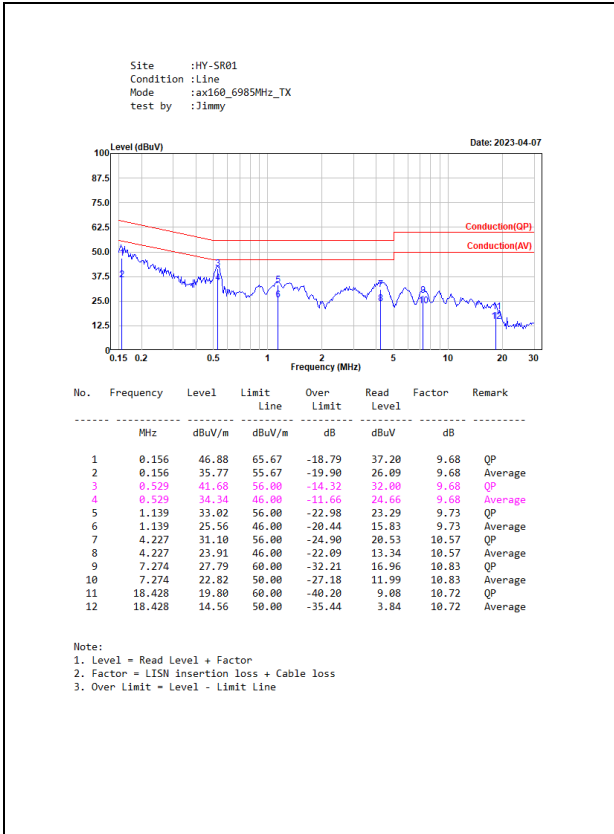
The excess length of the power cord between the EUT and the LISN receptacle were folded back and forth at the center of the lead to form a bundle not exceeding 40 cm in length.

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

2.4. Test Specification

According to FCC CFR Title 47 Part 15 Subpart C Paragraph 15.207.

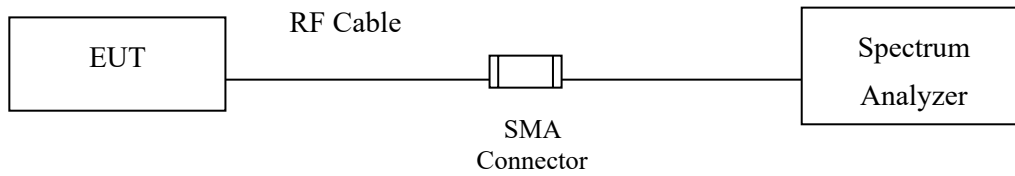
2.5. Test Result of Conducted Emission



3. 99% & 26dB Bandwidth

3.1. Test Setup

26dB Occupied Bandwidth



3.2. Limits

No Required

3.3. Test Procedure

The EUT was tested according to U-NII test procedure of KDB 789033.D02 V02r01
Set RBW 1% of the emission bandwidth, VBW equal to 3 times the RBW.

3.4. Test Result of 99% & 26dB Bandwidth

Product : Wireless-AXE11000 Tri-band Gigabit Router,
 ROG Rapture Tri-band Gaming Router,
 ROG Rapture GT-AXE11000 tri-band Gaming Router,
 WiFi 6E ROG Rapture GT-AXE11000 Tri-band Gaming Router

Test Item : 99% & 26dB Bandwidth

Test Mode : Transmit (802.11ax-20 MHz_Non-Beamforming) - NSS-1

Test Date : 2023/04/08

Channel No.	Frequency (MHz)	26dB Bandwidth (MHz)				99% Occupied Bandwidth (MHz)			
		Chain A	Chain B	Chain C	Chain D	Chain A	Chain B	Chain C	Chain D
33	6115	21.8981	21.9381	22.1379	21.8182	19.2607	19.2207	19.4205	19.2207
61	6255	21.8581	21.9780	22.0180	21.8981	19.3006	19.5804	19.1808	19.4205
93	6415	22.0579	21.9381	21.8981	22.1379	19.2207	19.3406	19.2607	19.2607
97	6435	22.0579	21.9780	21.8581	22.1379	19.2607	19.5404	19.2607	19.5404
105	6475	21.9381	21.9381	21.9381	21.8182	19.3006	19.1808	19.1808	19.1408
113	6515	21.9381	21.9381	22.0180	22.0579	19.3006	19.4605	19.2207	19.3406
117	6535	22.0180	21.8182	21.8581	21.7782	19.2607	19.3006	19.2207	19.2207
149	6695	21.8182	21.8581	21.8182	22.0180	19.2207	19.4605	19.3406	19.2207
181	6855	21.5784	21.8182	22.0180	21.6583	19.2207	19.2607	19.3006	19.2207
185	6875	22.1778	22.0579	22.1778	21.9381	19.2607	19.3806	19.2207	19.3806
189	6895	21.8581	21.9780	21.9381	22.0180	19.2607	19.2607	19.3406	19.2607
213	7015	22.2178	22.2178	22.1379	22.0579	19.3806	19.3806	19.3806	19.3006
229	7095	22.1778	22.0579	22.0579	22.2178	19.3806	19.4205	19.4205	19.4205

Product : Wireless-AXE11000 Tri-band Gigabit Router,
 ROG Rapture Tri-band Gaming Router,
 ROG Rapture GT-AXE11000 tri-band Gaming Router,
 WiFi 6E ROG Rapture GT-AXE11000 Tri-band Gaming Router

Test Item : 99% & 26dB Bandwidth

Test Mode : Transmit (802.11ax-40 MHz_Non-Beamforming) - NSS-1

Test Date : 2023/04/08

Channel No.	Frequency (MHz)	26dB Bandwidth (MHz)				99% Occupied Bandwidth (MHz)			
		Chain A	Chain B	Chain C	Chain D	Chain A	Chain B	Chain C	Chain D
35	6125	39.9600	39.8801	40.3596	40.1998	37.6423	37.7222	37.6423	37.7222
59	6245	40.1998	40.0400	40.1199	39.9600	37.6423	37.6423	37.7222	37.7222
91	6405	39.9600	40.1998	39.8002	39.8801	37.6423	37.6423	37.4825	37.8021
99	6445	39.9600	40.1199	40.1998	39.9600	37.6423	37.7222	37.6423	37.7222
107	6485	40.1199	39.7203	39.7203	39.8801	37.6423	37.6423	37.4825	37.6423
115	6525	40.2797	39.8801	39.8002	39.9600	37.6423	37.7222	37.6423	37.5624
123	6565	39.9600	39.6404	39.8002	39.8801	37.7222	37.7222	37.6423	37.7222
147	6685	40.0400	39.8801	40.0400	39.9600	37.6423	37.6423	37.5624	37.5624
179	6845	40.1199	40.1199	40.0400	39.8801	37.5624	37.7222	37.6423	37.5624
187	6885	40.0400	39.8801	39.8801	40.0400	37.5624	37.4825	37.7222	37.7222
195	6925	39.8801	39.8801	40.1199	40.1199	37.5624	37.6423	37.6423	37.6423
211	7005	39.9600	39.9600	39.8002	39.9600	37.7222	37.6423	37.6423	37.5624
227	7085	40.1998	40.0400	39.9600	40.1199	37.6423	37.6423	37.5624	37.6423

Product : Wireless-AXE11000 Tri-band Gigabit Router,
 ROG Rapture Tri-band Gaming Router,
 ROG Rapture GT-AXE11000 tri-band Gaming Router,
 WiFi 6E ROG Rapture GT-AXE11000 Tri-band Gaming Router

Test Item : 99% & 26dB Bandwidth

Test Mode : Transmit (802.11ax-80 MHz_Non-Beamforming) - NSS-1

Test Date : 2023/04/08

Channel No.	Frequency (MHz)	26dB Bandwidth (MHz)				99% Occupied Bandwidth (MHz)			
		Chain A	Chain B	Chain C	Chain D	Chain A	Chain B	Chain C	Chain D
39	6145	81.199	80.400	81.359	80.240	76.883	76.883	77.043	76.883
55	6225	81.678	81.199	81.039	81.039	76.883	77.043	77.043	77.203
87	6385	80.879	81.039	81.199	80.719	77.043	77.043	77.203	77.203
103	6465	80.559	81.359	81.678	81.678	77.203	77.043	76.883	77.203
119	6545	80.879	81.518	81.199	81.359	76.883	76.883	77.522	77.043
135	6625	81.199	80.559	81.199	80.879	76.883	76.883	77.043	76.883
151	6705	80.719	81.039	81.199	81.199	77.203	76.883	77.203	77.203
167	6785	81.199	81.039	81.678	81.359	77.043	76.883	77.363	77.043
183	6865	81.039	81.359	80.719	81.039	77.043	76.883	76.883	77.043
199	6945	80.719	80.240	80.879	80.240	76.723	76.883	76.883	76.883
215	7025	80.240	80.559	80.240	81.199	77.043	77.043	77.043	77.043

Product : Wireless-AXE11000 Tri-band Gigabit Router,
 ROG Rapture Tri-band Gaming Router,
 ROG Rapture GT-AXE11000 tri-band Gaming Router,
 WiFi 6E ROG Rapture GT-AXE11000 Tri-band Gaming Router

Test Item : 99% & 26dB Bandwidth

Test Mode : Transmit (802.11ax-160 MHz_Non-Beamforming) - NSS-1

Test Date : 2023/04/08

Channel No.	Frequency (MHz)	26dB Bandwidth (MHz)				99% Occupied Bandwidth (MHz)			
		Chain A	Chain B	Chain C	Chain D	Chain A	Chain B	Chain C	Chain D
47	6185	162.717	161.758	163.676	162.717	154.406	154.406	154.725	154.725
79	6345	162.398	163.037	163.676	161.758	155.045	154.725	154.406	154.725
111	6505	161.758	163.037	161.758	163.037	154.406	156.004	155.045	154.406
143	6665	163.676	161.439	162.398	163.037	156.004	155.045	155.045	155.684
175	6825	162.398	163.037	162.398	164.316	155.365	155.684	154.406	155.045
207	6985	161.439	162.717	163.676	163.037	155.045	154.725	154.406	155.045

Product : Wireless-AXE11000 Tri-band Gigabit Router,
 ROG Rapture Tri-band Gaming Router,
 ROG Rapture GT-AXE11000 tri-band Gaming Router,
 WiFi 6E ROG Rapture GT-AXE11000 Tri-band Gaming Router

Test Item : 99% & 26dB Bandwidth

Test Mode : Transmit (802.11ax-20 MHz_Non-Beamforming) - NSS-4

Test Date : 2023/04/08

Channel No.	Frequency (MHz)	26dB Bandwidth (MHz)				99% Occupied Bandwidth (MHz)			
		Chain A	Chain B	Chain C	Chain D	Chain A	Chain B	Chain C	Chain D
33	6115	22.1379	21.8182	21.8182	22.0180	19.2207	19.2207	19.2607	19.4205
61	6255	21.8182	21.9780	21.7782	21.6983	19.2607	19.3806	19.2607	19.2207
93	6415	21.7383	22.1379	21.8581	21.8981	19.3406	19.4205	19.3406	19.1808
97	6435	22.0979	22.1379	22.1379	22.0579	19.1808	19.5004	19.3406	19.5804
105	6475	21.6583	21.8182	21.9780	21.8581	19.3806	19.2607	19.2207	19.2207
113	6515	22.1379	21.8981	21.9381	21.7383	19.3406	19.5004	19.3006	19.1808
117	6535	21.7383	22.1778	21.7782	22.1379	19.3406	19.2607	19.4205	19.5404
149	6695	21.6983	21.8182	21.8981	21.9381	19.2207	19.2607	19.2207	19.2207
181	6855	21.7383	21.8981	21.9780	21.8981	19.3006	19.3806	19.3006	19.1808
185	6875	21.8182	21.7383	21.8981	21.8581	19.3006	19.3006	19.2207	19.3406
189	6895	21.9381	22.0180	22.1379	21.9381	19.2607	19.4605	19.5404	19.5404
213	7015	21.9381	21.7782	22.0180	21.8981	19.3406	19.3406	19.3006	19.2607
229	7095	21.9780	21.9780	21.8981	21.9780	19.3006	19.3006	19.3006	19.3006

Product : Wireless-AXE11000 Tri-band Gigabit Router,
 ROG Rapture Tri-band Gaming Router,
 ROG Rapture GT-AXE11000 tri-band Gaming Router,
 WiFi 6E ROG Rapture GT-AXE11000 Tri-band Gaming Router

Test Item : 99% & 26dB Bandwidth

Test Mode : Transmit (802.11ax-40 MHz_Non-Beamforming) - NSS-4

Test Date : 2023/04/08

Channel No.	Frequency (MHz)	26dB Bandwidth (MHz)				99% Occupied Bandwidth (MHz)			
		Chain A	Chain B	Chain C	Chain D	Chain A	Chain B	Chain C	Chain D
35	6125	39.7203	40.1199	39.9600	40.0400	37.6423	37.5624	37.6423	37.6423
59	6245	40.0400	39.8801	40.5994	39.8801	37.6423	37.6423	37.6423	37.5624
91	6405	39.9600	40.0400	39.8801	40.2797	37.5624	37.5624	37.5624	37.5624
99	6445	39.7203	39.8002	40.1998	39.8801	37.5624	37.6423	37.5624	37.6423
107	6485	39.9600	39.8801	39.8801	40.0400	37.6423	37.5624	37.6423	37.5624
115	6525	39.7203	39.8801	39.9600	39.8002	37.5624	37.4825	37.6423	37.5624
123	6565	39.8801	40.1199	40.0400	39.9600	37.5624	37.6423	37.5624	37.7222
147	6685	40.5994	39.8801	40.2797	39.8801	37.4825	37.5624	37.6423	37.5624
179	6845	40.1199	39.8801	40.0400	39.8002	37.6423	37.4825	37.6423	37.6423
187	6885	39.8002	39.7203	39.9600	39.9600	37.4825	37.4825	37.6423	37.5624
195	6925	40.0400	39.7203	40.0400	39.9600	37.6423	37.6423	37.6423	37.5624
211	7005	40.1199	39.8801	39.8801	40.0400	37.4825	37.5624	37.5624	37.5624
227	7085	40.5195	40.5195	40.5195	40.3596	37.5624	37.4825	37.5624	37.5624

Product : Wireless-AXE11000 Tri-band Gigabit Router,
 ROG Rapture Tri-band Gaming Router,
 ROG Rapture GT-AXE11000 tri-band Gaming Router,
 WiFi 6E ROG Rapture GT-AXE11000 Tri-band Gaming Router

Test Item : 99% & 26dB Bandwidth

Test Mode : Transmit (802.11ax-80 MHz_Non-Beamforming) - NSS-4

Test Date : 2023/04/08

Channel No.	Frequency (MHz)	26dB Bandwidth (MHz)				99% Occupied Bandwidth (MHz)			
		Chain A	Chain B	Chain C	Chain D	Chain A	Chain B	Chain C	Chain D
39	6145	81.518	80.719	80.879	80.719	77.203	77.043	77.043	77.043
55	6225	80.559	80.879	81.039	81.359	76.883	77.043	76.723	76.883
87	6385	80.719	80.400	80.240	80.240	77.043	76.883	77.043	77.203
103	6465	81.039	80.879	80.559	80.559	77.043	76.883	77.043	76.883
119	6545	80.400	80.719	80.719	80.879	77.043	76.883	77.043	77.043
135	6625	81.359	81.199	80.879	80.559	77.043	77.043	77.043	77.043
151	6705	81.838	81.039	81.518	80.559	77.203	77.043	77.203	77.043
167	6785	81.518	80.879	81.518	80.559	77.363	77.043	77.043	76.883
183	6865	80.400	81.678	81.998	81.838	77.043	77.363	77.203	77.203
199	6945	80.879	81.678	80.400	80.559	76.723	76.883	76.883	76.723
215	7025	80.080	80.719	80.080	80.719	76.883	77.203	77.203	77.363

Product : Wireless-AXE11000 Tri-band Gigabit Router,
 ROG Rapture Tri-band Gaming Router,
 ROG Rapture GT-AXE11000 tri-band Gaming Router,
 WiFi 6E ROG Rapture GT-AXE11000 Tri-band Gaming Router

Test Item : 99% & 26dB Bandwidth

Test Mode : Transmit (802.11ax-160 MHz_Non-Beamforming) - NSS-4

Test Date : 2023/04/08

Channel No.	Frequency (MHz)	26dB Bandwidth (MHz)				99% Occupied Bandwidth (MHz)			
		Chain A	Chain B	Chain C	Chain D	Chain A	Chain B	Chain C	Chain D
47	6185	162.398	163.357	162.398	163.357	154.406	155.045	154.725	154.086
79	6345	161.758	161.439	163.676	161.758	154.406	155.045	154.725	155.365
111	6505	161.758	163.676	163.676	162.078	154.725	154.725	155.045	154.725
143	6665	163.037	162.717	161.758	162.398	155.045	155.045	155.045	155.045
175	6825	162.717	162.717	163.037	163.357	154.406	154.406	155.684	155.045
207	6985	162.078	162.078	161.439	163.037	154.725	154.725	154.406	154.406

Product : Wireless-AXE11000 Tri-band Gigabit Router,
 ROG Rapture Tri-band Gaming Router,
 ROG Rapture GT-AXE11000 tri-band Gaming Router,
 WiFi 6E ROG Rapture GT-AXE11000 Tri-band Gaming Router

Test Item : 99% & 26dB Bandwidth

Test Mode : Transmit (802.11ax-20 MHz-Beamforming) - NSS-1

Test Date : 2023/04/08

Channel No.	Frequency (MHz)	26dB Bandwidth (MHz)				99% Occupied Bandwidth (MHz)			
		Chain A	Chain B	Chain C	Chain D	Chain A	Chain B	Chain C	Chain D
33	6115	22.1379	22.1778	22.2178	22.1379	19.4205	19.2607	19.4205	19.3406
61	6255	22.0979	22.1379	22.2178	22.0979	19.4605	19.2607	19.4205	19.3406
93	6415	22.1379	22.0979	22.0979	22.1379	19.4205	19.3006	19.4205	19.3806
97	6435	22.1778	22.1379	22.0180	22.0979	19.3406	19.3806	19.3406	19.3806
105	6475	22.0579	21.9381	22.1379	22.1379	19.3006	19.3406	19.3406	19.3406
113	6515	22.1778	22.1379	22.2178	22.1778	19.4605	19.4205	19.4605	19.5004
117	6535	22.0579	22.1379	22.1379	22.2178	19.3006	19.2607	19.3006	19.3006
149	6695	22.2178	22.1778	22.1778	22.2178	19.4205	19.4205	19.3806	19.4205
181	6855	22.0180	22.1379	22.1778	22.1379	19.3006	19.3406	19.3406	19.3006
185	6875	22.0579	22.0180	21.9780	22.1379	19.2607	19.3006	19.3006	19.2607
189	6895	22.0979	22.0579	22.0979	22.1379	19.4205	19.2607	19.3806	19.3806
213	7015	22.0579	22.0579	22.0979	22.0979	19.3406	19.3006	19.2607	19.3406
229	7095	22.0979	22.0579	22.1778	22.1379	19.4205	19.2607	19.4205	19.3006

Product : Wireless-AXE11000 Tri-band Gigabit Router,
 ROG Rapture Tri-band Gaming Router,
 ROG Rapture GT-AXE11000 tri-band Gaming Router,
 WiFi 6E ROG Rapture GT-AXE11000 Tri-band Gaming Router

Test Item : 99% & 26dB Bandwidth

Test Mode : Transmit (802.11ax-40 MHz-Beamforming) - NSS-1

Test Date : 2023/04/08

Channel No.	Frequency (MHz)	26dB Bandwidth (MHz)				99% Occupied Bandwidth (MHz)			
		Chain A	Chain B	Chain C	Chain D	Chain A	Chain B	Chain C	Chain D
35	6125	40.3596	40.4396	40.1998	39.9600	37.6423	37.6423	37.6423	37.6423
59	6245	40.1998	40.3596	39.9600	40.1199	37.6423	37.6423	37.6423	37.6423
91	6405	40.3596	40.3596	40.1199	40.0400	37.6423	37.7222	37.6423	37.7222
99	6445	40.3596	40.1998	40.0400	40.0400	37.6423	37.6423	37.6423	37.5624
107	6485	40.3596	40.2797	40.1998	40.0400	37.6423	37.6423	37.6423	37.6423
115	6525	40.2797	40.4396	40.1199	39.9600	37.6423	37.7222	37.6423	37.6423
123	6565	40.2797	40.4396	40.4396	40.3596	37.5624	37.6423	37.6423	37.6423
147	6685	40.2797	40.3596	40.1998	39.9600	37.6423	37.6423	37.6423	37.6423
179	6845	40.2797	40.5195	40.1199	39.9600	37.6423	37.6423	37.6423	37.7222
187	6885	40.1199	40.0400	39.9600	40.1998	37.7222	37.6423	37.6423	37.7222
195	6925	40.1199	40.4396	39.9600	40.1199	37.5624	37.5624	37.6423	37.7222
211	7005	40.1998	40.2797	39.8801	39.9600	37.6423	37.5624	37.7222	37.5624
227	7085	40.1199	40.3596	40.1199	40.0400	37.6423	37.6423	37.5624	37.6423

Product : Wireless-AXE11000 Tri-band Gigabit Router,
 ROG Rapture Tri-band Gaming Router,
 ROG Rapture GT-AXE11000 tri-band Gaming Router,
 WiFi 6E ROG Rapture GT-AXE11000 Tri-band Gaming Router

Test Item : 99% & 26dB Bandwidth

Test Mode : Transmit (802.11ax-80 MHz-Beamforming) - NSS-1

Test Date : 2023/04/08

Channel No.	Frequency (MHz)	26dB Bandwidth (MHz)				99% Occupied Bandwidth (MHz)			
		Chain A	Chain B	Chain C	Chain D	Chain A	Chain B	Chain C	Chain D
39	6145	81.359	81.359	81.518	81.518	77.0429	77.2027	77.0429	77.0429
55	6225	81.518	81.678	81.518	81.359	76.8831	77.3626	77.3626	77.2027
87	6385	81.359	81.518	81.359	81.518	77.0429	77.0429	76.8831	77.0429
103	6465	81.838	81.359	81.838	81.359	77.3626	77.2027	77.2027	77.2027
119	6545	81.359	81.518	81.518	81.359	77.2027	77.0429	77.0429	77.2027
135	6625	81.678	81.518	81.199	81.838	77.2027	77.2027	77.2027	77.0429
151	6705	81.518	81.838	81.838	81.518	77.2027	77.3626	77.0429	77.0429
167	6785	81.678	81.199	81.359	81.359	77.2027	77.0429	77.2027	77.0429
183	6865	81.678	81.518	81.359	81.518	77.2027	77.0429	77.0429	77.0429
199	6945	81.678	81.359	81.359	81.199	77.0429	77.2027	76.8831	77.0429
215	7025	81.518	81.199	81.199	81.518	77.2027	77.0429	77.0429	77.0429

Product : Wireless-AXE11000 Tri-band Gigabit Router,
 ROG Rapture Tri-band Gaming Router,
 ROG Rapture GT-AXE11000 tri-band Gaming Router,
 WiFi 6E ROG Rapture GT-AXE11000 Tri-band Gaming Router

Test Item : 99% & 26dB Bandwidth

Test Mode : Transmit (802.11ax-160 MHz-Beamforming) - NSS-1

Test Date : 2023/04/08

Channel No.	Frequency (MHz)	26dB Bandwidth (MHz)				99% Occupied Bandwidth (MHz)			
		Chain A	Chain B	Chain C	Chain D	Chain A	Chain B	Chain C	Chain D
47	6185	163.996	164.316	163.676	164.316	155.0449	155.3646	155.0449	155.0449
79	6345	163.996	164.316	164.635	164.316	155.3646	154.7252	155.3646	155.0449
111	6505	164.635	164.635	164.635	164.635	155.6843	155.3646	155.3646	155.6843
143	6665	164.955	164.955	163.676	164.635	155.6843	155.6843	155.3646	155.3646
175	6825	163.996	164.955	163.996	164.635	156.0039	155.6843	155.3646	155.3646
207	6985	163.996	163.357	163.357	163.676	155.0449	154.7252	154.4055	154.4055

Product : Wireless-AXE11000 Tri-band Gigabit Router,
 ROG Rapture Tri-band Gaming Router,
 ROG Rapture GT-AXE11000 tri-band Gaming Router,
 WiFi 6E ROG Rapture GT-AXE11000 Tri-band Gaming Router

Test Item : 99% & 26dB Bandwidth

Test Mode : Transmit (802.11ax-20 MHz-Beamforming) - NSS-2

Test Date : 2023/04/08

Channel No.	Frequency (MHz)	26dB Bandwidth (MHz)				99% Occupied Bandwidth (MHz)			
		Chain A	Chain B	Chain C	Chain D	Chain A	Chain B	Chain C	Chain D
33	6115	21.8981	21.8581	22.1379	22.0579	19.2007	19.2607	19.3806	19.3406
61	6255	22.2178	22.0180	22.1778	22.0579	19.4205	19.3806	19.4205	19.3806
93	6415	22.2178	22.1379	22.0579	22.0579	19.4205	19.4605	19.4205	19.4205
97	6435	22.1379	22.1778	22.0979	22.0979	19.4205	19.2607	19.3006	19.4205
105	6475	22.1778	22.1778	22.1778	22.0979	19.4205	19.4605	19.4205	19.3806
113	6515	22.1379	22.1379	22.1778	22.0979	19.4605	19.3406	19.3806	19.3406
117	6535	22.2178	22.0579	22.1778	22.1778	19.4205	19.4205	19.4205	19.4605
149	6695	22.1778	22.1379	22.2178	22.2577	19.4205	19.4205	19.4605	19.4205
181	6855	22.0579	22.0979	22.2178	22.1778	19.4605	19.3406	19.3406	19.3406
185	6875	22.0579	22.0979	21.9780	22.0979	19.3406	19.2207	19.3006	19.2607
189	6895	22.1379	22.0979	22.0979	22.0979	19.3406	19.3006	19.2607	19.3406
213	7015	22.0579	22.1379	22.0979	22.1379	19.3806	19.3006	19.3006	19.2607
229	7095	22.0979	22.0979	22.0579	22.0979	19.3406	19.3406	19.3806	19.3006

Product : Wireless-AXE11000 Tri-band Gigabit Router,
 ROG Rapture Tri-band Gaming Router,
 ROG Rapture GT-AXE11000 tri-band Gaming Router,
 WiFi 6E ROG Rapture GT-AXE11000 Tri-band Gaming Router

Test Item : 99% & 26dB Bandwidth

Test Mode : Transmit (802.11ax-40 MHz-Beamforming) - NSS-2

Test Date : 2023/04/08

Channel No.	Frequency (MHz)	26dB Bandwidth (MHz)				99% Occupied Bandwidth (MHz)			
		Chain A	Chain B	Chain C	Chain D	Chain A	Chain B	Chain C	Chain D
35	6125	40.2797	40.2797	40.2797	40.1998	37.6423	37.6423	37.6423	37.6423
59	6245	40.4396	40.3596	40.2797	40.2797	37.6423	37.6423	37.5624	37.6423
91	6405	40.0400	39.9600	40.2797	40.2797	37.7222	37.6423	37.5624	37.6423
99	6445	40.2797	39.9600	40.2797	40.0400	37.6423	37.7222	37.5624	37.5624
107	6485	40.1199	40.0400	40.3596	40.1998	37.6423	37.5624	37.6423	37.6423
115	6525	40.1998	40.1199	40.1998	40.2797	37.6423	37.6423	37.6423	37.6423
123	6565	40.4396	40.4396	40.4396	40.2797	37.6423	37.6423	37.6423	37.6423
147	6685	40.5195	40.5195	40.2797	40.3596	37.7222	37.7222	37.6423	37.5624
179	6845	40.0400	40.1998	39.9600	40.1199	37.6423	37.6423	37.6423	37.6423
187	6885	39.9600	39.9600	39.9600	40.3596	37.6423	37.6423	37.6423	37.6423
195	6925	40.1199	40.1998	40.1199	40.3596	37.6423	37.6423	37.6423	37.6423
211	7005	40.0400	40.1998	39.9600	40.1199	37.6423	37.6423	37.6423	37.5624
227	7085	40.1998	40.1998	40.5195	40.1998	37.6423	37.6423	37.6423	37.6423

Product : Wireless-AXE11000 Tri-band Gigabit Router,
 ROG Rapture Tri-band Gaming Router,
 ROG Rapture GT-AXE11000 tri-band Gaming Router,
 WiFi 6E ROG Rapture GT-AXE11000 Tri-band Gaming Router

Test Item : 99% & 26dB Bandwidth

Test Mode : Transmit (802.11ax-80 MHz-Beamforming) - NSS-2

Test Date : 2023/04/08

Channel No.	Frequency (MHz)	26dB Bandwidth (MHz)				99% Occupied Bandwidth (MHz)			
		Chain A	Chain B	Chain C	Chain D	Chain A	Chain B	Chain C	Chain D
39	6145	81.518	81.678	81.199	81.359	77.0429	76.8831	77.0429	77.0429
55	6225	81.359	81.678	81.199	81.359	77.0429	77.0429	77.0429	77.2027
87	6385	81.359	81.359	81.359	81.678	77.0429	77.0429	77.0429	77.0429
103	6465	81.838	81.678	81.838	81.518	77.2027	77.3626	77.0429	77.0429
119	6545	81.678	81.359	81.518	81.359	77.0429	77.0429	77.2027	77.2027
135	6625	81.678	81.518	81.678	81.518	77.2027	77.2027	77.2027	77.2027
151	6705	81.678	81.518	81.518	81.678	77.2027	77.0429	77.2027	77.0429
167	6785	81.518	81.359	81.518	81.518	77.0429	77.2027	77.0429	77.0429
183	6865	82.158	81.518	81.678	81.838	77.2027	77.3626	77.0429	77.2027
199	6945	81.359	81.039	81.518	81.199	77.0429	76.8831	76.8831	77.0429
215	7025	81.359	81.359	81.518	81.518	76.8831	77.2027	77.2027	77.0429

Product : Wireless-AXE11000 Tri-band Gigabit Router,
 ROG Rapture Tri-band Gaming Router,
 ROG Rapture GT-AXE11000 tri-band Gaming Router,
 WiFi 6E ROG Rapture GT-AXE11000 Tri-band Gaming Router

Test Item : 99% & 26dB Bandwidth

Test Mode : Transmit (802.11ax-160 MHz-Beamforming) - NSS-2

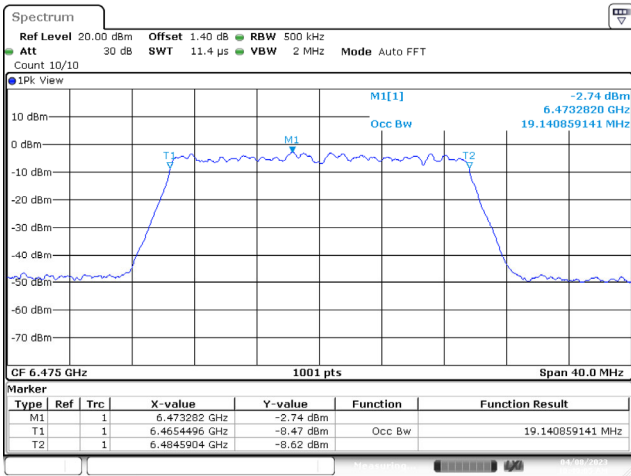
Test Date : 2023/04/08

Channel No.	Frequency (MHz)	26dB Bandwidth (MHz)				99% Occupied Bandwidth (MHz)			
		Chain A	Chain B	Chain C	Chain D	Chain A	Chain B	Chain C	Chain D
47	6185	164.316	163.996	164.316	163.676	155.0449	155.0449	155.0449	155.0449
79	6345	163.996	164.316	164.316	163.996	155.6843	155.0449	155.3646	155.6843
111	6505	164.635	163.996	163.676	163.996	155.0449	155.3646	155.0449	155.0449
143	6665	164.316	165.594	164.316	164.316	155.6843	155.3646	155.6843	155.3646
175	6825	164.955	164.635	164.316	164.316	155.6843	155.3646	155.0449	155.6843
207	6985	163.996	164.316	163.996	163.357	154.7252	154.7252	154.7252	154.7252

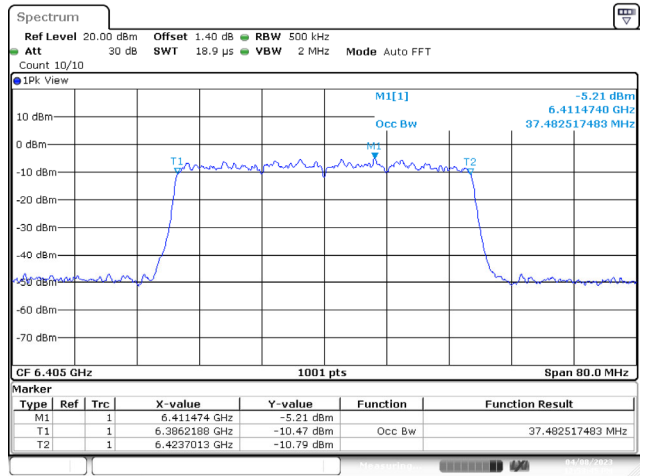
Result	Pass
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Spectrum plot of worst value (99% Occupied Bandwidth)

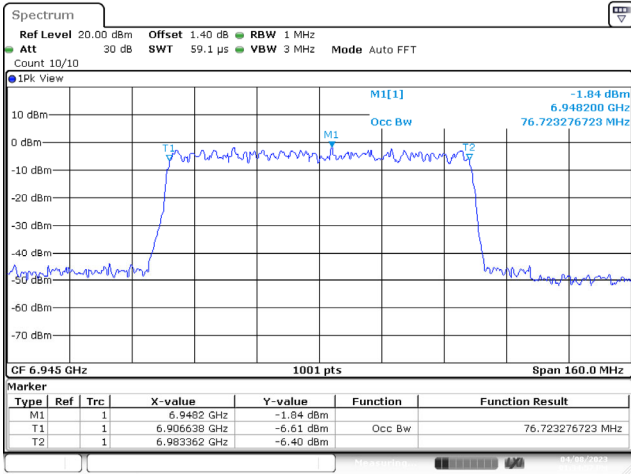
802.11ax (20MHz) / 6475MHz / Chain D
NSS-1 Non-Beamforming



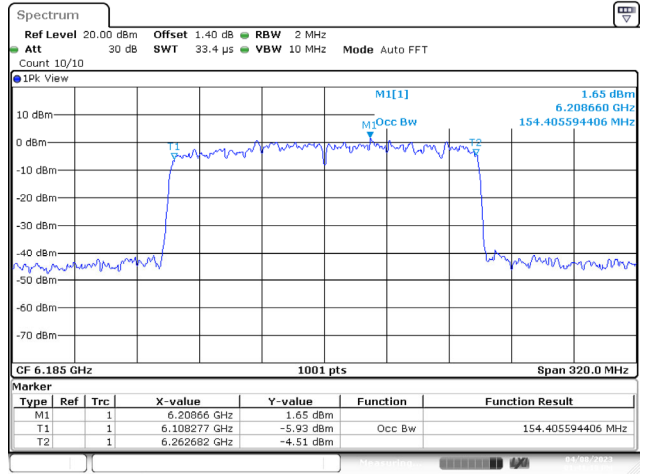
802.11ax (40MHz) / 6405MHz / Chain C
NSS-1 Non-Beamforming

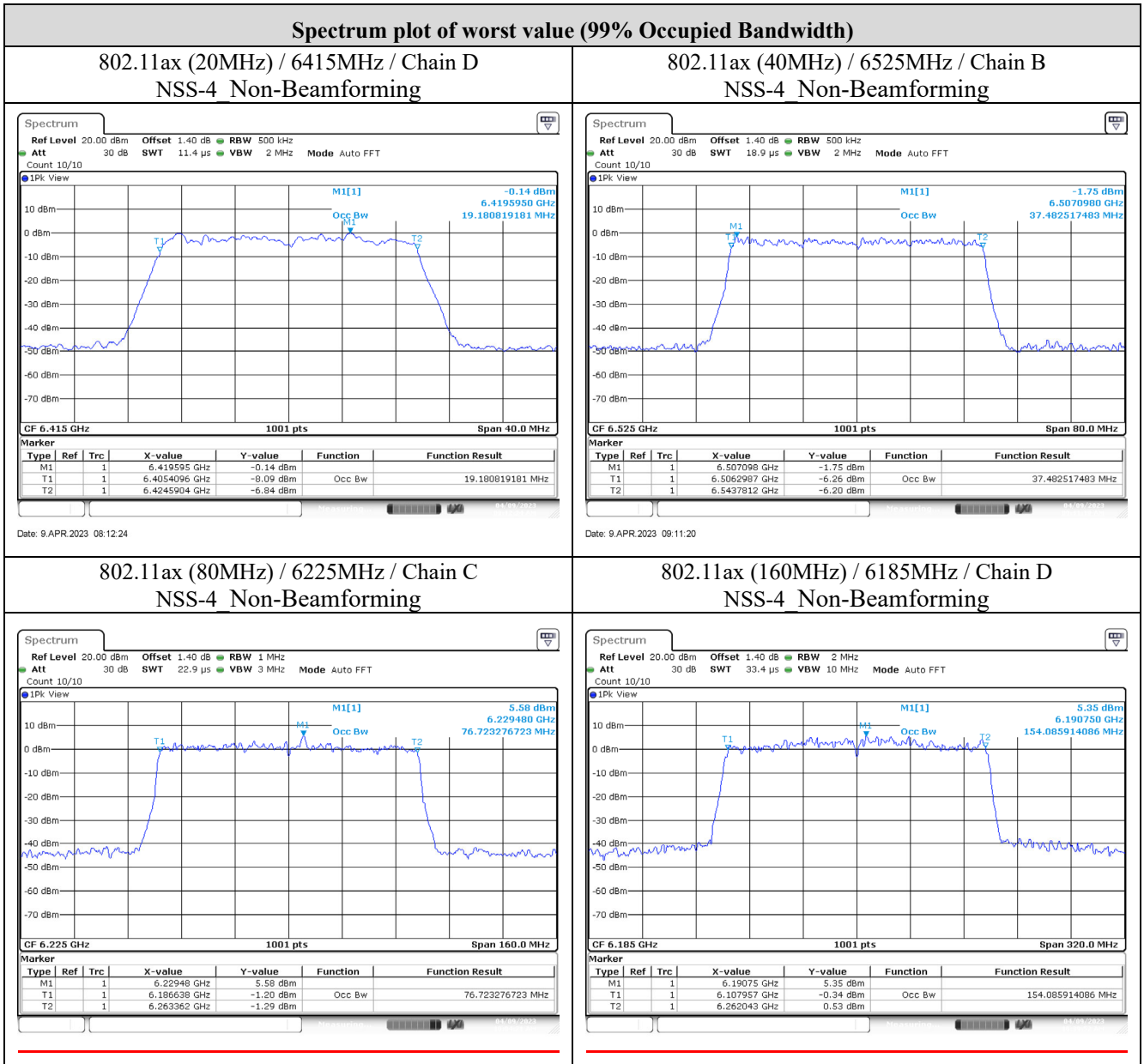


802.11ax (80MHz) / 6945MHz / Chain A
NSS-1 Non-Beamforming



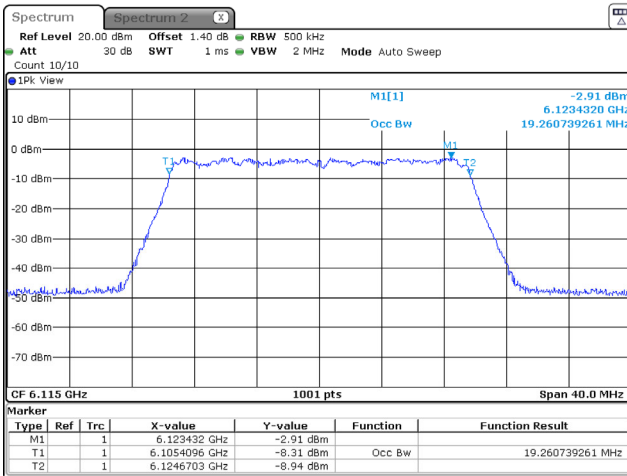
802.11ax (160MHz) / 6185MHz / Chain A
NSS-1 Non-Beamforming



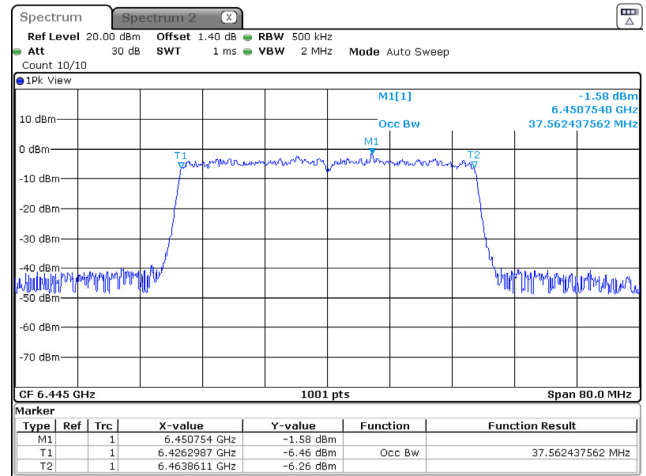


Spectrum plot of worst value (26dB Bandwidth)

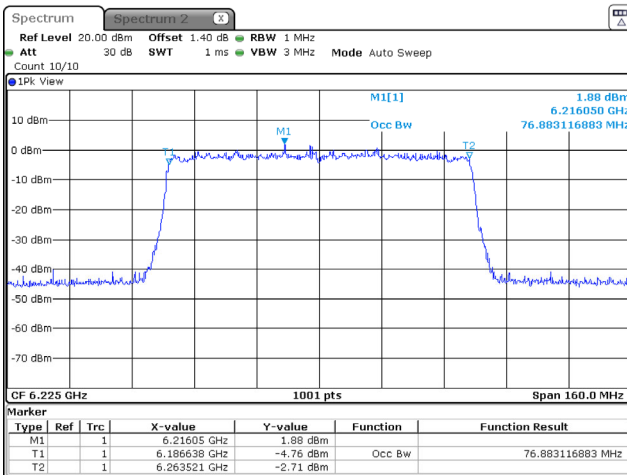
802.11ax (20MHz) / 6115MHz / Chain B
NSS-1 Beamforming



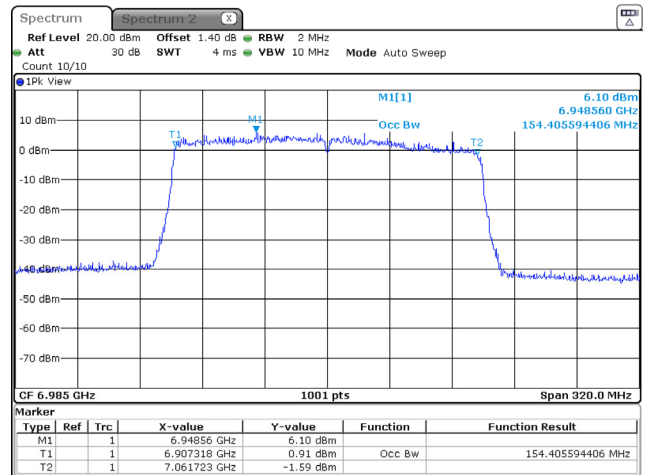
802.11ax (40MHz) / 6445MHz / Chain D
NSS-1 Beamforming



802.11ax (80MHz) / 6225MHz / Chain A
NSS-1 Beamforming

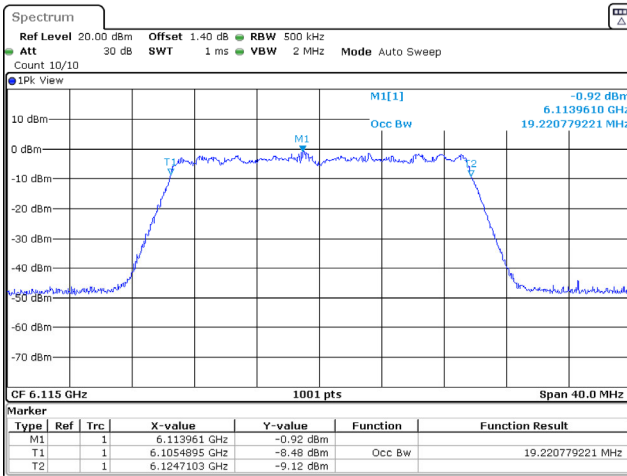


802.11ax (160MHz) / 6985MHz / Chain C
NSS-1 Beamforming

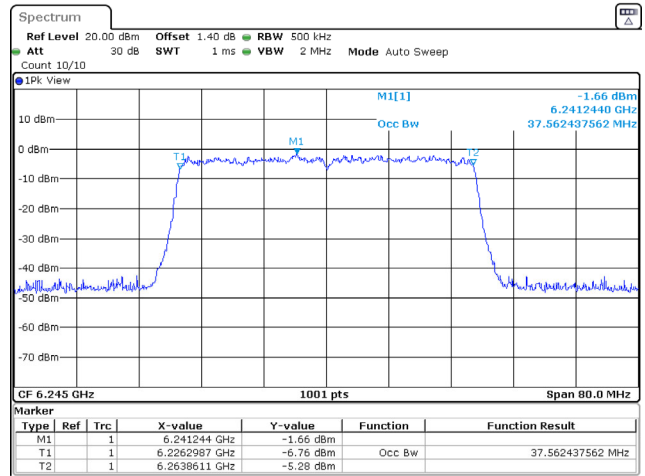


Spectrum plot of worst value (26dB Bandwidth)

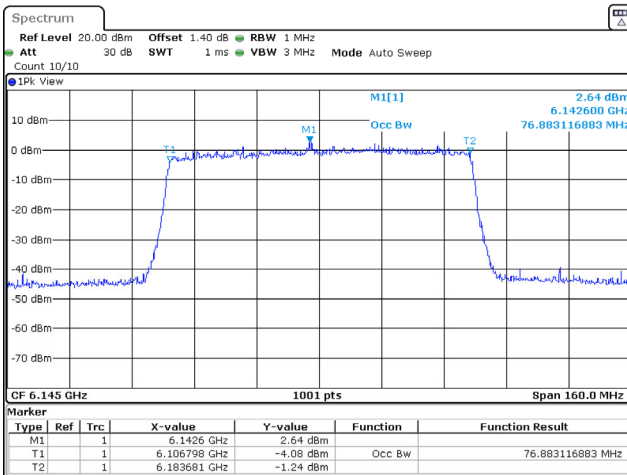
802.11ax (20MHz) / 6115MHz / Chain A
NSS-2 Beamforming



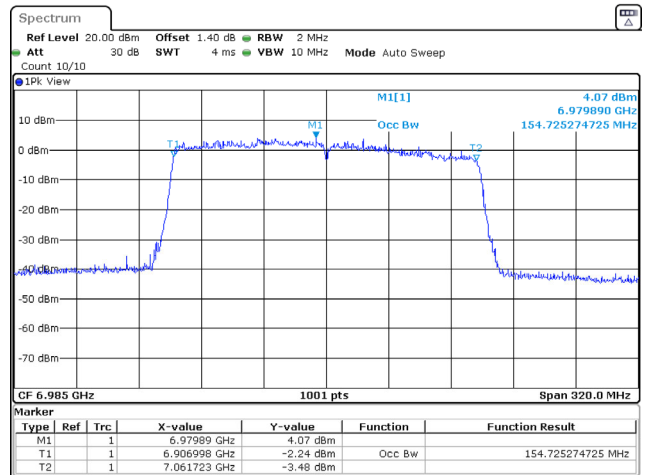
802.11ax (40MHz) / 6245MHz / Chain C
NSS-2 Beamforming



802.11ax (80MHz) / 6145MHz / Chain B
NSS-2 Beamforming

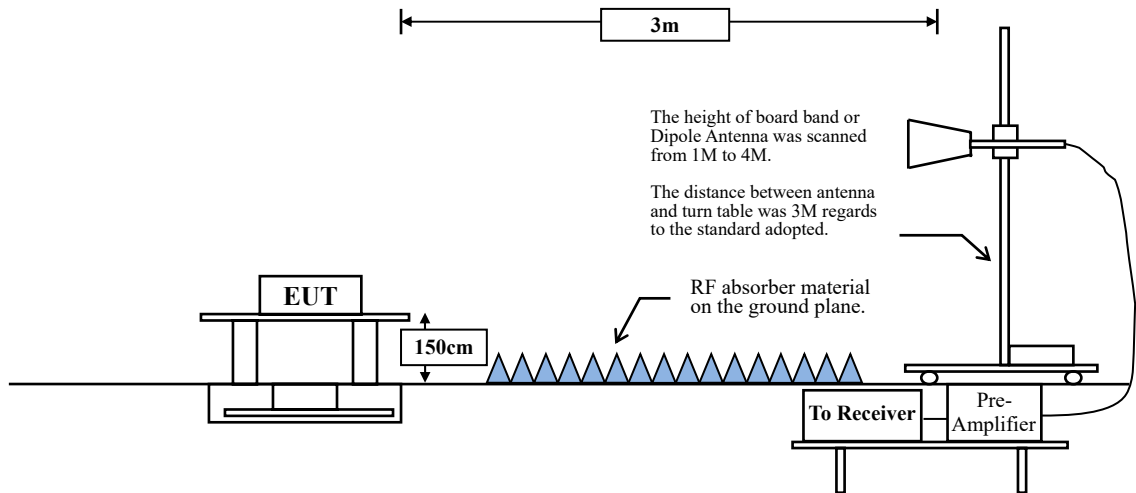


802.11ax (160MHz) / 6985MHz / Chain A
NSS-2 Beamforming



4. Transmit Output

4.1. Test Setup



4.2. Limits

1. For the 5.925~6.425 GHz band:

For standard power access point and fixed client device : e.i.r.p < 36 dBm , For outdoor devices, the maximum e.i.r.p. at any elevation angle above 30 degrees not exceed 125 mW (21 dBm).

For indoor access point : e.i.r.p < 30 dBm.

For subordinate device control of an indoor access point : e.i.r.p < 30 dBm.

For client device control of a standard power access point : e.i.r.p < 30 dBm.

For client device control of an indoor access point : e.i.r.p < 24 dBm.

2. For the 6.425~6.525 GHz band:

For indoor access point : e.i.r.p < 30 dBm.

For client device control of an indoor access point : e.i.r.p < 24 dBm.

3. For the 6.525~6.875 GHz band:

For standard power access point and fixed client device : e.i.r.p < 36 dBm , For outdoor devices, the maximum e.i.r.p. at any elevation angle above 30 degrees not exceed 125 mW (21 dBm).

For indoor access point : e.i.r.p < 30 dBm.

For subordinate device control of an indoor access point : e.i.r.p < 30 dBm.

For client device control of a standard power access point : e.i.r.p < 30 dBm.

For client device control of an indoor access point : e.i.r.p < 24 dBm.

4. For the 6.87~7.125 GHz band:

For indoor access point : e.i.r.p < 30 dBm.

For client device control of an indoor access point : e.i.r.p < 24 dBm.

4.3. Test Procedure

1. The EUT was setup to ANSI C63.10: 2013; tested to U-NII test procedure of KDB 789033 D02 v02r01 Method SA-2 for compliance to FCC CFR Title 47 Part 15 Subpart E requirements.
2. The EUT is placed on a turn table which is 1.5 meter above ground and 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.
3. Perform a field strength measurement following ANSI C63.10 and record the worst field strength value via spectrum reading obtained corrected for antenna factor, cable loss and pre-amplifier factor and then convert the measured field strength level to EIRP level.
4. Following ANSI C63.10 and KDB 412172 D01 v01r01,
EIRP value (dBm) = Field strength value (dBuV/m) + Correction factor (dB) @3m
Correction factor (dB) @3m = $20 \cdot \log(3) - 104.77 = -95.23\text{dB}$

4.4. Test Result of Transmit Output

Product : Wireless-AXE11000 Tri-band Gigabit Router,
 ROG Rapture Tri-band Gaming Router,
 ROG Rapture GT-AXE11000 tri-band Gaming Router,
 WiFi 6E ROG Rapture GT-AXE11000 Tri-band Gaming Router

Test Item : Transmit Output

Test Mode : Transmit (802.11ax-20 MHz_Non-Beamforming) - NSS-1

Test Date : 2023/04/07

Channel No.	Frequency (MHz)	Reading Level (dB μ V/m)	Path Loss (dB)	Field Strength (dB μ V/m)	Duty Factor (dB)	Correction Factor (dB)	EIRP (dBm)	EIRP Limit (dBm)
33	6115	90.51	18.44	108.95	0.08	-95.23	13.80	30
61	6255	89.07	19.44	108.51	0.08	-95.23	13.36	30
93	6415	87.74	20.39	108.13	0.08	-95.23	12.98	30
97	6435	88.10	20.48	108.58	0.08	-95.23	13.43	30
105	6475	87.36	20.39	107.75	0.08	-95.23	12.60	30
113	6515	87.36	20.31	107.67	0.08	-95.23	12.52	30
117	6535	87.58	20.31	107.89	0.08	-95.23	12.74	30
149	6695	86.74	21.01	107.75	0.08	-95.23	12.60	30
181	6855	87.12	21.03	108.15	0.08	-95.23	13.00	30
185	6875	87.40	20.81	108.21	0.08	-95.23	13.06	30
189	6895	87.22	20.85	108.07	0.08	-95.23	12.92	30
213	7015	86.23	20.91	107.14	0.08	-95.23	11.99	30
229	7095	87.14	20.85	107.99	0.08	-95.23	12.84	30

Product : Wireless-AXE11000 Tri-band Gigabit Router,
 ROG Rapture Tri-band Gaming Router,
 ROG Rapture GT-AXE11000 tri-band Gaming Router,
 WiFi 6E ROG Rapture GT-AXE11000 Tri-band Gaming Router

Test Item : Transmit Output

Test Mode : Transmit (802.11ax-40 MHz_Non-Beamforming) - NSS-1

Test Date : 2023/04/07

Channel No.	Frequency (MHz)	Reading Level (dB μ V/m)	Path Loss (dB)	Field Strength (dB μ V/m)	Duty Factor (dB)	Correction Factor (dB)	EIRP (dBm)	EIRP Limit (dBm)
35	6125	91.85	18.53	110.38	0.13	-95.23	15.28	30
59	6245	91.10	19.37	110.47	0.13	-95.23	15.37	30
91	6405	90.53	20.29	110.82	0.13	-95.23	15.72	30
99	6445	90.74	20.49	111.23	0.13	-95.23	16.13	30
107	6485	90.71	20.38	111.09	0.13	-95.23	15.99	30
115	6525	90.41	20.31	110.72	0.13	-95.23	15.62	30
123	6565	90.03	20.41	110.44	0.13	-95.23	15.34	30
147	6685	90.09	20.89	110.98	0.13	-95.23	15.88	30
179	6845	89.70	21.05	110.75	0.13	-95.23	15.65	30
187	6885	89.95	20.84	110.79	0.13	-95.23	15.69	30
195	6925	90.50	20.87	111.37	0.13	-95.23	16.27	30
211	7005	89.69	20.89	110.58	0.13	-95.23	15.48	30
227	7085	89.59	20.87	110.46	0.13	-95.23	15.36	30

Product : Wireless-AXE11000 Tri-band Gigabit Router,
 ROG Rapture Tri-band Gaming Router,
 ROG Rapture GT-AXE11000 tri-band Gaming Router,
 WiFi 6E ROG Rapture GT-AXE11000 Tri-band Gaming Router

Test Item : Transmit Output

Test Mode : Transmit (802.11ax-80 MHz_Non-Beamforming) - NSS-1

Test Date : 2023/04/07

Channel No.	Frequency (MHz)	Reading Level (dB μ V/m)	Path Loss (dB)	Field Strength (dB μ V/m)	Duty Factor (dB)	Correction Factor (dB)	EIRP (dBm)	EIRP Limit (dBm)
39	6145	94.56	18.66	113.22	0.08	-95.23	18.07	30
55	6225	94.89	19.27	114.16	0.08	-95.23	19.01	30
87	6385	93.83	20.18	114.01	0.08	-95.23	18.86	30
103	6465	92.52	20.44	112.96	0.08	-95.23	17.81	30
119	6545	93.12	20.36	113.48	0.08	-95.23	18.33	30
135	6625	92.85	20.60	113.45	0.08	-95.23	18.30	30
151	6705	92.47	21.06	113.53	0.08	-95.23	18.38	30
167	6785	91.95	21.84	113.79	0.08	-95.23	18.64	30
183	6865	92.94	20.80	113.74	0.08	-95.23	18.59	30
199	6945	92.81	20.87	113.68	0.08	-95.23	18.53	30
215	7025	92.27	20.93	113.20	0.08	-95.23	18.05	30

Product : Wireless-AXE11000 Tri-band Gigabit Router,
 ROG Rapture Tri-band Gaming Router,
 ROG Rapture GT-AXE11000 tri-band Gaming Router,
 WiFi 6E ROG Rapture GT-AXE11000 Tri-band Gaming Router

Test Item : Transmit Output

Test Mode : Transmit (802.11ax-160 MHz_Non-Beamforming) - NSS-1

Test Date : 2023/04/07

Channel No.	Frequency (MHz)	Reading Level (dB μ V/m)	Path Loss (dB)	Field Strength (dB μ V/m)	Duty Factor (dB)	Correction Factor (dB)	EIRP (dBm)	EIRP Limit (dBm)
47	6185	97.69	19	116.69	0.04	-95.23	21.50	30
79	6345	96.66	19.98	116.64	0.04	-95.23	21.45	30
111	6505	95.98	20.34	116.32	0.04	-95.23	21.13	30
143	6665	95.48	20.79	116.27	0.04	-95.23	21.08	30
175	6825	95.13	21.3	116.43	0.04	-95.23	21.24	30
207	6985	94.82	20.88	115.70	0.04	-95.23	20.51	30

Product : Wireless-AXE11000 Tri-band Gigabit Router,
 ROG Rapture Tri-band Gaming Router,
 ROG Rapture GT-AXE11000 tri-band Gaming Router,
 WiFi 6E ROG Rapture GT-AXE11000 Tri-band Gaming Router

Test Item : Transmit Output

Test Mode : Transmit (802.11ax-20 MHz_Non-Beamforming) - NSS-4

Test Date : 2023/04/07

Channel No.	Frequency (MHz)	Reading Level (dB μ V/m)	Path Loss (dB)	Field Strength (dB μ V/m)	Duty Factor (dB)	Correction Factor (dB)	EIRP (dBm)	EIRP Limit (dBm)
33	6115	93.72	18.44	112.16	0.06	-95.23	16.99	30
61	6255	92.82	19.44	112.26	0.06	-95.23	17.09	30
93	6415	91.48	20.39	111.87	0.06	-95.23	16.70	30
97	6435	91.49	20.48	111.97	0.06	-95.23	16.80	30
105	6475	91.34	20.39	111.73	0.06	-95.23	16.56	30
113	6515	91.46	20.31	111.77	0.06	-95.23	16.60	30
117	6535	91.64	20.31	111.95	0.06	-95.23	16.78	30
149	6695	90.45	21.01	111.46	0.06	-95.23	16.29	30
181	6855	91.13	21.03	112.16	0.06	-95.23	16.99	30
185	6875	91.13	20.81	111.94	0.06	-95.23	16.77	30
189	6895	90.65	20.85	111.50	0.06	-95.23	16.33	30
213	7015	89.56	20.91	110.47	0.06	-95.23	15.30	30
229	7095	91.11	20.85	111.96	0.06	-95.23	16.79	30

Product : Wireless-AXE11000 Tri-band Gigabit Router,
 ROG Rapture Tri-band Gaming Router,
 ROG Rapture GT-AXE11000 tri-band Gaming Router,
 WiFi 6E ROG Rapture GT-AXE11000 Tri-band Gaming Router

Test Item : Transmit Output

Test Mode : Transmit (802.11ax-40 MHz_Non-Beamforming) - NSS-4

Test Date : 2023/04/07

Channel No.	Frequency (MHz)	Reading Level (dB μ V/m)	Path Loss (dB)	Field Strength (dB μ V/m)	Duty Factor (dB)	Correction Factor (dB)	EIRP (dBm)	EIRP Limit (dBm)
35	6125	96.07	18.53	114.60	0.08	-95.23	19.45	30
59	6245	95.24	19.37	114.61	0.08	-95.23	19.46	30
91	6405	94.10	20.29	114.39	0.08	-95.23	19.24	30
99	6445	94.20	20.49	114.69	0.08	-95.23	19.54	30
107	6485	94.00	20.38	114.38	0.08	-95.23	19.23	30
115	6525	94.18	20.31	114.49	0.08	-95.23	19.34	30
123	6565	94.44	20.41	114.85	0.08	-95.23	19.70	30
147	6685	93.66	20.89	114.55	0.08	-95.23	19.40	30
179	6845	93.71	21.05	114.76	0.08	-95.23	19.61	30
187	6885	93.96	20.84	114.80	0.08	-95.23	19.65	30
195	6925	93.67	20.87	114.54	0.08	-95.23	19.39	30
211	7005	93.27	20.89	114.16	0.08	-95.23	19.01	30
227	7085	93.58	20.87	114.45	0.08	-95.23	19.30	30

Product : Wireless-AXE11000 Tri-band Gigabit Router,
 ROG Rapture Tri-band Gaming Router,
 ROG Rapture GT-AXE11000 tri-band Gaming Router,
 WiFi 6E ROG Rapture GT-AXE11000 Tri-band Gaming Router

Test Item : Transmit Output

Test Mode : Transmit (802.11ax-80 MHz_Non-Beamforming) - NSS-4

Test Date : 2023/04/07

Channel No.	Frequency (MHz)	Reading Level (dB μ V/m)	Path Loss (dB)	Field Strength (dB μ V/m)	Duty Factor (dB)	Correction Factor (dB)	EIRP (dBm)	EIRP Limit (dBm)
39	6145	98.93	18.66	117.59	0.08	-95.23	22.44	30
55	6225	98.47	19.27	117.74	0.08	-95.23	22.59	30
87	6385	97.92	20.18	118.10	0.08	-95.23	22.95	30
103	6465	97.04	20.44	117.48	0.08	-95.23	22.33	30
119	6545	96.94	20.36	117.30	0.08	-95.23	22.15	30
135	6625	96.28	20.60	116.88	0.08	-95.23	21.73	30
151	6705	96.12	21.06	117.18	0.08	-95.23	22.03	30
167	6785	96.15	21.84	117.99	0.08	-95.23	22.84	30
183	6865	96.99	20.80	117.79	0.08	-95.23	22.64	30
199	6945	96.53	20.87	117.40	0.08	-95.23	22.25	30
215	7025	96.19	20.93	117.12	0.08	-95.23	21.97	30

Product : Wireless-AXE11000 Tri-band Gigabit Router,
 ROG Rapture Tri-band Gaming Router,
 ROG Rapture GT-AXE11000 tri-band Gaming Router,
 WiFi 6E ROG Rapture GT-AXE11000 Tri-band Gaming Router

Test Item : Transmit Output

Test Mode : Transmit (802.11ax-160 MHz_Non-Beamforming) - NSS-4

Test Date : 2023/04/07

Channel No.	Frequency (MHz)	Reading Level (dB μ V/m)	Path Loss (dB)	Field Strength (dB μ V/m)	Duty Factor (dB)	Correction Factor (dB)	EIRP (dBm)	EIRP Limit (dBm)
47	6185	101.11	19	120.11	0.10	-95.23	24.98	30
79	6345	100.24	19.98	120.22	0.10	-95.23	25.09	30
111	6505	99.96	20.34	120.30	0.10	-95.23	25.17	30
143	6665	99.34	20.79	120.13	0.10	-95.23	25.00	30
175	6825	99.17	21.3	120.47	0.10	-95.23	25.34	30
207	6985	98.65	20.88	119.53	0.10	-95.23	24.40	30

Product : Wireless-AXE11000 Tri-band Gigabit Router,
 ROG Rapture Tri-band Gaming Router,
 ROG Rapture GT-AXE11000 tri-band Gaming Router,
 WiFi 6E ROG Rapture GT-AXE11000 Tri-band Gaming Router

Test Item : Transmit Output

Test Mode : Transmit (802.11ax-20 MHz-Beamforming) - NSS-1

Test Date : 2023/04/07

Channel No.	Frequency (MHz)	Reading Level (dB μ V/m)	Path Loss (dB)	Field Strength (dB μ V/m)	Duty Factor (dB)	Correction Factor (dB)	EIRP (dBm)	EIRP Limit (dBm)
33	6115	88.26	18.44	106.70	0.14	-95.23	11.61	30
61	6255	90.05	19.44	109.49	0.14	-95.23	14.40	30
93	6415	89.33	20.39	109.72	0.14	-95.23	14.63	30
97	6435	89.32	20.48	109.80	0.14	-95.23	14.71	30
105	6475	87.78	20.39	108.17	0.14	-95.23	13.08	30
113	6515	88.37	20.31	108.68	0.14	-95.23	13.59	30
117	6535	87.89	20.31	108.20	0.14	-95.23	13.11	30
149	6695	89.29	21.01	110.30	0.14	-95.23	15.21	30
181	6855	87.10	21.03	108.13	0.14	-95.23	13.04	30
185	6875	87.27	20.81	108.08	0.14	-95.23	12.99	30
189	6895	89.79	20.85	110.64	0.14	-95.23	15.55	30
213	7015	87.90	20.91	108.81	0.14	-95.23	13.72	30
229	7095	87.52	20.85	108.37	0.14	-95.23	13.28	30

Product : Wireless-AXE11000 Tri-band Gigabit Router,
 ROG Rapture Tri-band Gaming Router,
 ROG Rapture GT-AXE11000 tri-band Gaming Router,
 WiFi 6E ROG Rapture GT-AXE11000 Tri-band Gaming Router

Test Item : Transmit Output

Test Mode : Transmit (802.11ax-40 MHz-Beamforming) - NSS-1

Test Date : 2023/04/07

Channel No.	Frequency (MHz)	Reading Level (dB μ V/m)	Path Loss (dB)	Field Strength (dB μ V/m)	Duty Factor (dB)	Correction Factor (dB)	EIRP (dBm)	EIRP Limit (dBm)
35	6125	94.18	18.53	112.71	0.21	-95.23	17.69	30
59	6245	92.32	19.37	111.69	0.21	-95.23	16.67	30
91	6405	91.00	20.29	111.29	0.21	-95.23	16.27	30
99	6445	92.83	20.49	113.32	0.21	-95.23	18.30	30
107	6485	93.00	20.38	113.38	0.21	-95.23	18.36	30
115	6525	91.13	20.31	111.44	0.21	-95.23	16.42	30
123	6565	92.60	20.41	113.01	0.21	-95.23	17.99	30
147	6685	92.22	20.89	113.11	0.21	-95.23	18.09	30
179	6845	92.09	21.05	113.14	0.21	-95.23	18.12	30
187	6885	92.20	20.84	113.04	0.21	-95.23	18.02	30
195	6925	92.65	20.87	113.52	0.21	-95.23	18.50	30
211	7005	91.57	20.89	112.46	0.21	-95.23	17.44	30
227	7085	90.89	20.87	111.76	0.21	-95.23	16.74	30

Product : Wireless-AXE11000 Tri-band Gigabit Router,
 ROG Rapture Tri-band Gaming Router,
 ROG Rapture GT-AXE11000 tri-band Gaming Router,
 WiFi 6E ROG Rapture GT-AXE11000 Tri-band Gaming Router

Test Item : Transmit Output

Test Mode : Transmit (802.11ax-80 MHz-Beamforming) - NSS-1

Test Date : 2023/04/07

Channel No.	Frequency (MHz)	Reading Level (dB μ V/m)	Path Loss (dB)	Field Strength (dB μ V/m)	Duty Factor (dB)	Correction Factor (dB)	EIRP (dBm)	EIRP Limit (dBm)
39	6145	94.60	18.66	113.26	0.22	-95.23	18.25	30
55	6225	97.19	19.27	116.46	0.22	-95.23	21.45	30
87	6385	94.91	20.18	115.09	0.22	-95.23	20.08	30
103	6465	95.08	20.44	115.52	0.22	-95.23	20.51	30
119	6545	94.56	20.36	114.92	0.22	-95.23	19.91	30
135	6625	94.99	20.60	115.59	0.22	-95.23	20.58	30
151	6705	94.76	21.06	115.82	0.22	-95.23	20.81	30
167	6785	91.70	21.84	113.54	0.22	-95.23	18.53	30
183	6865	93.63	20.80	114.43	0.22	-95.23	19.42	30
199	6945	94.33	20.87	115.20	0.22	-95.23	20.19	30
215	7025	94.20	20.93	115.13	0.22	-95.23	20.12	30

Product : Wireless-AXE11000 Tri-band Gigabit Router,
 ROG Rapture Tri-band Gaming Router,
 ROG Rapture GT-AXE11000 tri-band Gaming Router,
 WiFi 6E ROG Rapture GT-AXE11000 Tri-band Gaming Router

Test Item : Transmit Output

Test Mode : Transmit (802.11ax-160 MHz-Beamforming) - NSS-1

Test Date : 2023/04/07

Channel No.	Frequency (MHz)	Reading Level (dB μ V/m)	Path Loss (dB)	Field Strength (dB μ V/m)	Duty Factor (dB)	Correction Factor (dB)	EIRP (dBm)	EIRP Limit (dBm)
47	6185	95.42	19	114.42	0.23	-95.23	19.42	30
79	6345	96.93	19.98	116.91	0.23	-95.23	21.91	30
111	6505	94.82	20.34	115.16	0.23	-95.23	20.16	30
143	6665	95.64	20.79	116.43	0.23	-95.23	21.43	30
175	6825	95.92	21.3	117.22	0.23	-95.23	22.22	30
207	6985	95.5	20.88	116.38	0.23	-95.23	21.38	30

Product : Wireless-AXE11000 Tri-band Gigabit Router,
 ROG Rapture Tri-band Gaming Router,
 ROG Rapture GT-AXE11000 tri-band Gaming Router,
 WiFi 6E ROG Rapture GT-AXE11000 Tri-band Gaming Router

Test Item : Transmit Output

Test Mode : Transmit (802.11ax-20 MHz-Beamforming) - NSS-2

Test Date : 2023/04/07

Channel No.	Frequency (MHz)	Reading Level (dB μ V/m)	Path Loss (dB)	Field Strength (dB μ V/m)	Duty Factor (dB)	Correction Factor (dB)	EIRP (dBm)	EIRP Limit (dBm)
33	6115	90.32	18.44	108.76	0.15	-95.23	13.68	30
61	6255	89.45	19.44	108.89	0.15	-95.23	13.81	30
93	6415	90.48	20.39	110.87	0.15	-95.23	15.79	30
97	6435	89.90	20.48	110.38	0.15	-95.23	15.30	30
105	6475	88.39	20.39	108.78	0.15	-95.23	13.70	30
113	6515	88.02	20.31	108.33	0.15	-95.23	13.25	30
117	6535	89.64	20.31	109.95	0.15	-95.23	14.87	30
149	6695	89.15	21.01	110.16	0.15	-95.23	15.08	30
181	6855	89.71	21.03	110.74	0.15	-95.23	15.66	30
185	6875	89.07	20.81	109.88	0.15	-95.23	14.80	30
189	6895	89.20	20.85	110.05	0.15	-95.23	14.97	30
213	7015	87.57	20.91	108.48	0.15	-95.23	13.40	30
229	7095	88.89	20.85	109.74	0.15	-95.23	14.66	30

Product : Wireless-AXE11000 Tri-band Gigabit Router,
 ROG Rapture Tri-band Gaming Router,
 ROG Rapture GT-AXE11000 tri-band Gaming Router,
 WiFi 6E ROG Rapture GT-AXE11000 Tri-band Gaming Router

Test Item : Transmit Output

Test Mode : Transmit (802.11ax-40 MHz-Beamforming) - NSS-2

Test Date : 2023/04/07

Channel No.	Frequency (MHz)	Reading Level (dB μ V/m)	Path Loss (dB)	Field Strength (dB μ V/m)	Duty Factor (dB)	Correction Factor (dB)	EIRP (dBm)	EIRP Limit (dBm)
35	6125	92.85	18.53	111.38	0.19	-95.23	16.34	30
59	6245	92.36	19.37	111.73	0.19	-95.23	16.69	30
91	6405	91.84	20.29	112.13	0.19	-95.23	17.09	30
99	6445	91.17	20.49	111.66	0.19	-95.23	16.62	30
107	6485	90.84	20.38	111.22	0.19	-95.23	16.18	30
115	6525	91.03	20.31	111.34	0.19	-95.23	16.30	30
123	6565	91.27	20.41	111.68	0.19	-95.23	16.64	30
147	6685	90.62	20.89	111.51	0.19	-95.23	16.47	30
179	6845	90.56	21.05	111.61	0.19	-95.23	16.57	30
187	6885	91.19	20.84	112.03	0.19	-95.23	16.99	30
195	6925	90.98	20.87	111.85	0.19	-95.23	16.81	30
211	7005	91.16	20.89	112.05	0.19	-95.23	17.01	30
227	7085	90.81	20.87	111.68	0.19	-95.23	16.64	30

Product : Wireless-AXE11000 Tri-band Gigabit Router,
 ROG Rapture Tri-band Gaming Router,
 ROG Rapture GT-AXE11000 tri-band Gaming Router,
 WiFi 6E ROG Rapture GT-AXE11000 Tri-band Gaming Router

Test Item : Transmit Output

Test Mode : Transmit (802.11ax-80 MHz-Beamforming) - NSS-2

Test Date : 2023/04/07

Channel No.	Frequency (MHz)	Reading Level (dB μ V/m)	Path Loss (dB)	Field Strength (dB μ V/m)	Duty Factor (dB)	Correction Factor (dB)	EIRP (dBm)	EIRP Limit (dBm)
39	6145	96.17	18.66	114.83	0.12	-95.23	19.72	30
55	6225	95.37	19.27	114.64	0.12	-95.23	19.53	30
87	6385	95.01	20.18	115.19	0.12	-95.23	20.08	30
103	6465	93.82	20.44	114.26	0.12	-95.23	19.15	30
119	6545	93.89	20.36	114.25	0.12	-95.23	19.14	30
135	6625	94.02	20.60	114.62	0.12	-95.23	19.51	30
151	6705	93.83	21.06	114.89	0.12	-95.23	19.78	30
167	6785	93.66	21.84	115.50	0.12	-95.23	20.39	30
183	6865	94.48	20.80	115.28	0.12	-95.23	20.17	30
199	6945	93.98	20.87	114.85	0.12	-95.23	19.74	30
215	7025	93.11	20.93	114.04	0.12	-95.23	18.93	30

Product : Wireless-AXE11000 Tri-band Gigabit Router,
 ROG Rapture Tri-band Gaming Router,
 ROG Rapture GT-AXE11000 tri-band Gaming Router,
 WiFi 6E ROG Rapture GT-AXE11000 Tri-band Gaming Router

Test Item : Transmit Output

Test Mode : Transmit (802.11ax-160 MHz-Beamforming) - NSS-2

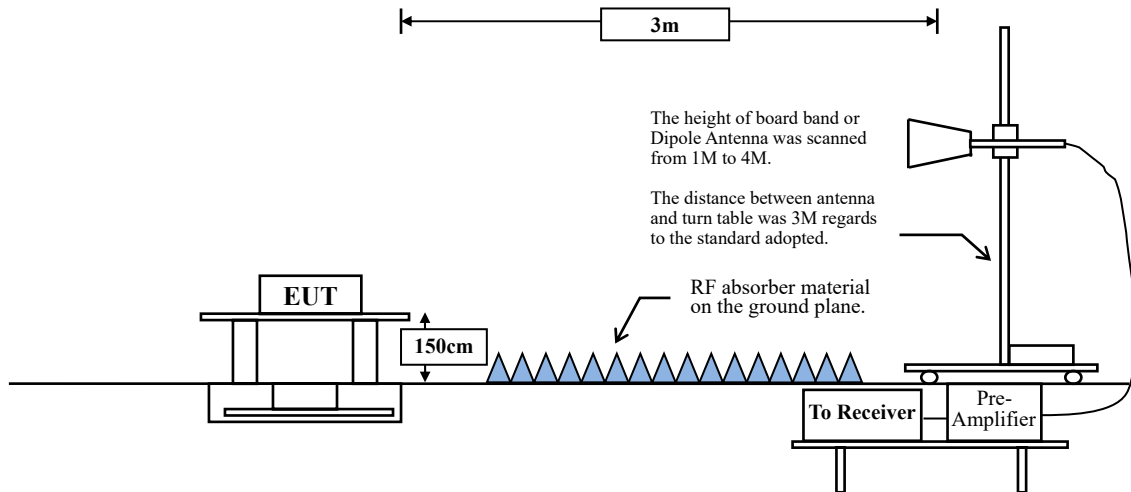
Test Date : 2023/04/07

Channel No.	Frequency (MHz)	Reading Level (dB μ V/m)	Path Loss (dB)	Field Strength (dB μ V/m)	Duty Factor (dB)	Correction Factor (dB)	EIRP (dBm)	EIRP Limit (dBm)
47	6185	98.34	19	117.34	0.11	-95.23	22.22	30
79	6345	98.72	19.98	118.70	0.11	-95.23	23.58	30
111	6505	98.14	20.34	118.48	0.11	-95.23	23.36	30
143	6665	96.67	20.79	117.46	0.11	-95.23	22.34	30
175	6825	96.12	21.3	117.42	0.11	-95.23	22.30	30
207	6985	97.29	20.88	118.17	0.11	-95.23	23.05	30

Result	Pass
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5. Maximum Power Spectrum Density

5.1. Test Setup



5.2. Limits

1. For the 5.925~6.425 GHz band:

For standard power access point and fixed client device : e.i.r.p PSD < 23 dBm/MHz.

For indoor access point : e.i.r.p PSD < 5 dBm/MHz.

For subordinate device control of an indoor access point : e.i.r.p PSD < 5 dBm/MHz.

For client device control of a standard power access point : e.i.r.p PSD < 17 dBm/MHz.

For client device control of an indoor access point : e.i.r.p PSD < -1 dBm/MHz.

2. For the 6.425~6.525 GHz band:

For indoor access point : e.i.r.p PSD < 5 dBm/MHz.

For client device control of an indoor access point : e.i.r.p PSD < -1 dBm/MHz.

3. For the 6.525~6.875 GHz band:

For standard power access point and fixed client device : e.i.r.p PSD < 23 dBm/MHz.

For indoor access point : e.i.r.p PSD < 5 dBm/MHz.

For subordinate device control of an indoor access point : e.i.r.p PSD < 5 dBm/MHz.

For client device control of a standard power access point : e.i.r.p PSD < 17 dBm/MHz.

For client device control of an indoor access point : e.i.r.p PSD < -1 dBm/MHz.

4. For the 6.875~7.125 GHz band:

For indoor access point : e.i.r.p PSD < 5 dBm/MHz.

For client device control of an indoor access point : e.i.r.p PSD < -1 dBm/MHz.

5.3. Test Procedure

1. The EUT was setup to ANSI C63.10: 2013; tested to U-NII test procedure of KDB 789033 D02 v02r01 Method SA-2 for compliance to FCC CFR Title 47 Part 15 Subpart E requirements.
2. The EUT is placed on a turn table which is 1.5 meter above ground and 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.
3. Perform a field strength measurement following ANSI C63.10 and record the worst field strength value via spectrum reading obtained corrected for antenna factor, cable loss and pre-amplifier factor and then convert the measured field strength level to EIRP level.
4. Following ANSI C63.10 and KDB 412172 D01 v01r01,
EIRP value (dBm) = Field strength value (dBuV/m) + Correction factor (dB) @3m
Correction factor (dB) @3m = $20 \cdot \log(3) - 104.77 = -95.23\text{dB}$

5.4. Test Result of Maximun Power Spectral Density

Product : Wireless-AXE11000 Tri-band Gigabit Router,
 ROG Rapture Tri-band Gaming Router,
 ROG Rapture GT-AXE11000 tri-band Gaming Router,
 WiFi 6E ROG Rapture GT-AXE11000 Tri-band Gaming Router

Test Item : Maximun Power Spectral Density

Test Mode : Transmit (802.11ax-20 MHz_Non-Beamforming) - NSS-1

Test Date : 2023/04/07

Channel No.	Frequency (MHz)	Reading Level (dB μ V/m)	Path Loss (dB)	Field Strength (dB μ V/m)	Duty Factor (dB)	Correction Factor (dB)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)
33	6115	81.70	18.44	100.14	0.08	-95.23	4.99	5
61	6255	80.68	19.44	100.12	0.08	-95.23	4.97	5
93	6415	79.74	20.39	100.13	0.08	-95.23	4.98	5
97	6435	79.66	20.48	100.14	0.08	-95.23	4.99	5
105	6475	79.74	20.39	100.13	0.08	-95.23	4.98	5
113	6515	79.61	20.31	99.92	0.08	-95.23	4.77	5
117	6535	79.80	20.31	100.11	0.08	-95.23	4.96	5
149	6695	78.86	21.01	99.87	0.08	-95.23	4.72	5
181	6855	78.98	21.03	100.01	0.08	-95.23	4.86	5
185	6875	79.21	20.81	100.02	0.08	-95.23	4.87	5
189	6895	79.10	20.85	99.95	0.08	-95.23	4.80	5
209	6995	79.18	20.91	100.09	0.08	-95.23	4.94	5
229	7095	79.23	20.85	100.08	0.08	-95.23	4.93	5

Product : Wireless-AXE11000 Tri-band Gigabit Router,
 ROG Rapture Tri-band Gaming Router,
 ROG Rapture GT-AXE11000 tri-band Gaming Router,
 WiFi 6E ROG Rapture GT-AXE11000 Tri-band Gaming Router

Test Item : Maximun Power Spectral Density

Test Mode : Transmit (802.11ax-40 MHz_Non-Beamforming) - NSS-1

Test Date : 2023/04/07

Channel No.	Frequency (MHz)	Reading Level (dB μ V/m)	Path Loss (dB)	Field Strength (dB μ V/m)	Duty Factor (dB)	Correction Factor (dB)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)
35	6125	81.54	18.53	100.07	0.13	-95.23	4.97	5
59	6245	80.36	19.37	99.73	0.13	-95.23	4.63	5
91	6405	79.68	20.29	99.97	0.13	-95.23	4.87	5
99	6445	79.59	20.49	100.08	0.13	-95.23	4.98	5
107	6485	79.58	20.38	99.96	0.13	-95.23	4.86	5
115	6525	79.73	20.31	100.04	0.13	-95.23	4.94	5
123	6565	79.36	20.41	99.77	0.13	-95.23	4.67	5
147	6685	79.19	20.89	100.08	0.13	-95.23	4.98	5
179	6845	78.88	21.05	99.93	0.13	-95.23	4.83	5
187	6885	78.97	20.84	99.81	0.13	-95.23	4.71	5
195	6925	79.19	20.87	100.06	0.13	-95.23	4.96	5
211	7005	79.14	20.89	100.03	0.13	-95.23	4.93	5
227	7085	78.76	20.87	99.63	0.13	-95.23	4.53	5

Product : Wireless-AXE11000 Tri-band Gigabit Router,
 ROG Rapture Tri-band Gaming Router,
 ROG Rapture GT-AXE11000 tri-band Gaming Router,
 WiFi 6E ROG Rapture GT-AXE11000 Tri-band Gaming Router

Test Item : Maximun Power Spectral Density

Test Mode : Transmit (802.11ax-80 MHz_Non-Beamforming) - NSS-1

Test Date : 2023/04/07

Channel No.	Frequency (MHz)	Reading Level (dB μ V/m)	Path Loss (dB)	Field Strength (dB μ V/m)	Duty Factor (dB)	Correction Factor (dB)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)
39	6145	81.44	18.66	100.10	0.08	-95.23	4.95	5
55	6225	80.87	19.27	100.14	0.08	-95.23	4.99	5
87	6385	79.92	20.18	100.10	0.08	-95.23	4.95	5
103	6465	79.63	20.44	100.07	0.08	-95.23	4.92	5
119	6545	79.75	20.36	100.11	0.08	-95.23	4.96	5
135	6625	79.53	20.60	100.13	0.08	-95.23	4.98	5
151	6705	79.00	21.06	100.06	0.08	-95.23	4.91	5
167	6785	78.24	21.84	100.08	0.08	-95.23	4.93	5
183	6865	79.34	20.80	100.14	0.08	-95.23	4.99	5
199	6945	79.27	20.87	100.14	0.08	-95.23	4.99	5
215	7025	79.09	20.93	100.02	0.08	-95.23	4.87	5

Product : Wireless-AXE11000 Tri-band Gigabit Router,
 ROG Rapture Tri-band Gaming Router,
 ROG Rapture GT-AXE11000 tri-band Gaming Router,
 WiFi 6E ROG Rapture GT-AXE11000 Tri-band Gaming Router

Test Item : Maximun Power Spectral Density

Test Mode : Transmit (802.11ax-160 MHz_Non-Beamforming) - NSS-1

Test Date : 2023/04/07

Channel No.	Frequency (MHz)	Reading Level (dB μ V/m)	Path Loss (dB)	Field Strength (dB μ V/m)	Duty Factor (dB)	Correction Factor (dB)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)
47	6185	81.06	19	100.06	0.04	-95.23	4.87	5
79	6345	80.03	19.98	100.01	0.04	-95.23	4.82	5
111	6505	79.82	20.34	100.16	0.04	-95.23	4.97	5
143	6665	79.3	20.79	100.09	0.04	-95.23	4.90	5
175	6825	78.79	21.3	100.09	0.04	-95.23	4.90	5
207	6985	79.13	20.88	100.01	0.04	-95.23	4.82	5

Product : Wireless-AXE11000 Tri-band Gigabit Router,
 ROG Rapture Tri-band Gaming Router,
 ROG Rapture GT-AXE11000 tri-band Gaming Router,
 WiFi 6E ROG Rapture GT-AXE11000 Tri-band Gaming Router

Test Item : Maximun Power Spectral Density

Test Mode : Transmit (802.11ax-20 MHz_Non-Beamforming) - NSS-4

Test Date : 2023/04/07

Channel No.	Frequency (MHz)	Reading Level (dB μ V/m)	Path Loss (dB)	Field Strength (dB μ V/m)	Duty Factor (dB)	Correction Factor (dB)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)
33	6115	81.68	18.44	100.12	0.06	-95.23	4.95	5
61	6255	80.72	19.44	100.16	0.06	-95.23	4.99	5
93	6415	79.75	20.39	100.14	0.06	-95.23	4.97	5
97	6435	79.49	20.48	99.97	0.06	-95.23	4.80	5
105	6475	79.70	20.39	100.09	0.06	-95.23	4.92	5
113	6515	79.85	20.31	100.16	0.06	-95.23	4.99	5
117	6535	79.79	20.31	100.10	0.06	-95.23	4.93	5
149	6695	79.02	21.01	100.03	0.06	-95.23	4.86	5
181	6855	79.08	21.03	100.11	0.06	-95.23	4.94	5
185	6875	79.28	20.81	100.09	0.06	-95.23	4.92	5
189	6895	79.09	20.85	99.94	0.06	-95.23	4.77	5
213	7015	78.82	20.91	99.73	0.06	-95.23	4.56	5
229	7095	79.24	20.85	100.09	0.06	-95.23	4.92	5

Product : Wireless-AXE11000 Tri-band Gigabit Router,
 ROG Rapture Tri-band Gaming Router,
 ROG Rapture GT-AXE11000 tri-band Gaming Router,
 WiFi 6E ROG Rapture GT-AXE11000 Tri-band Gaming Router

Test Item : Maximun Power Spectral Density

Test Mode : Transmit (802.11ax-40 MHz_Non-Beamforming) - NSS-4

Test Date : 2023/04/07

Channel No.	Frequency (MHz)	Reading Level (dB μ V/m)	Path Loss (dB)	Field Strength (dB μ V/m)	Duty Factor (dB)	Correction Factor (dB)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)
35	6125	81.56	18.53	100.09	0.08	-95.23	4.94	5
59	6245	80.71	19.37	100.08	0.08	-95.23	4.93	5
91	6405	79.80	20.29	100.09	0.08	-95.23	4.94	5
99	6445	79.65	20.49	100.14	0.08	-95.23	4.99	5
107	6485	79.76	20.38	100.14	0.08	-95.23	4.99	5
115	6525	79.78	20.31	100.09	0.08	-95.23	4.94	5
123	6565	79.69	20.41	100.10	0.08	-95.23	4.95	5
147	6685	79.25	20.89	100.14	0.08	-95.23	4.99	5
179	6845	79.03	21.05	100.08	0.08	-95.23	4.93	5
187	6885	79.23	20.84	100.07	0.08	-95.23	4.92	5
195	6925	79.24	20.87	100.11	0.08	-95.23	4.96	5
211	7005	79.18	20.89	100.07	0.08	-95.23	4.92	5
227	7085	79.19	20.87	100.06	0.08	-95.23	4.91	5

Product : Wireless-AXE11000 Tri-band Gigabit Router,
 ROG Rapture Tri-band Gaming Router,
 ROG Rapture GT-AXE11000 tri-band Gaming Router,
 WiFi 6E ROG Rapture GT-AXE11000 Tri-band Gaming Router

Test Item : Maximun Power Spectral Density

Test Mode : Transmit (802.11ax-80 MHz_Non-Beamforming) - NSS-4

Test Date : 2023/04/07

Channel No.	Frequency (MHz)	Reading Level (dB μ V/m)	Path Loss (dB)	Field Strength (dB μ V/m)	Duty Factor (dB)	Correction Factor (dB)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)
39	6145	81.45	18.66	100.11	0.08	-95.23	4.96	5
55	6225	80.85	19.27	100.12	0.08	-95.23	4.97	5
87	6385	79.96	20.18	100.14	0.08	-95.23	4.99	5
103	6465	79.57	20.44	100.01	0.08	-95.23	4.86	5
119	6545	79.63	20.36	99.99	0.08	-95.23	4.84	5
135	6625	79.38	20.60	99.98	0.08	-95.23	4.83	5
151	6705	79.06	21.06	100.12	0.08	-95.23	4.97	5
167	6785	78.22	21.84	100.06	0.08	-95.23	4.91	5
183	6865	79.15	20.80	99.95	0.08	-95.23	4.80	5
199	6945	79.13	20.87	100.00	0.08	-95.23	4.85	5
215	7025	79.21	20.93	100.14	0.08	-95.23	4.99	5

Product : Wireless-AXE11000 Tri-band Gigabit Router,
 ROG Rapture Tri-band Gaming Router,
 ROG Rapture GT-AXE11000 tri-band Gaming Router,
 WiFi 6E ROG Rapture GT-AXE11000 Tri-band Gaming Router

Test Item : Maximun Power Spectral Density

Test Mode : Transmit (802.11ax-160 MHz_Non-Beamforming) - NSS-4

Test Date : 2023/04/07

Channel No.	Frequency (MHz)	Reading Level (dB μ V/m)	Path Loss (dB)	Field Strength (dB μ V/m)	Duty Factor (dB)	Correction Factor (dB)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)
47	6185	80.99	19	99.99	0.10	-95.23	4.86	5
79	6345	80.09	19.98	100.07	0.10	-95.23	4.94	5
111	6505	79.73	20.34	100.07	0.10	-95.23	4.94	5
143	6665	79.22	20.79	100.01	0.10	-95.23	4.88	5
175	6825	78.64	21.3	99.94	0.10	-95.23	4.81	5
207	6985	79.18	20.88	100.06	0.10	-95.23	4.93	5

Product : Wireless-AXE11000 Tri-band Gigabit Router,
 ROG Rapture Tri-band Gaming Router,
 ROG Rapture GT-AXE11000 tri-band Gaming Router,
 WiFi 6E ROG Rapture GT-AXE11000 Tri-band Gaming Router

Test Item : Maximun Power Spectral Density

Test Mode : Transmit (802.11ax-20 MHz-Beamforming) - NSS-1

Test Date : 2023/04/07

Channel No.	Frequency (MHz)	Reading Level (dB μ V/m)	Path Loss (dB)	Field Strength (dB μ V/m)	Duty Factor (dB)	Correction Factor (dB)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)
33	6115	81.62	18.44	100.06	0.14	-95.23	4.97	5
61	6255	80.53	19.44	99.97	0.14	-95.23	4.88	5
93	6415	79.51	20.39	99.90	0.14	-95.23	4.81	5
97	6435	79.48	20.48	99.96	0.14	-95.23	4.87	5
105	6475	79.59	20.39	99.98	0.14	-95.23	4.89	5
113	6515	79.48	20.31	99.79	0.14	-95.23	4.70	5
117	6535	79.50	20.31	99.81	0.14	-95.23	4.72	5
149	6695	78.81	21.01	99.82	0.14	-95.23	4.73	5
181	6855	78.76	21.03	99.79	0.14	-95.23	4.70	5
185	6875	79.03	20.81	99.84	0.14	-95.23	4.75	5
189	6895	79.02	20.85	99.87	0.14	-95.23	4.78	5
209	6995	78.99	20.91	99.90	0.14	-95.23	4.81	5
229	7095	79.20	20.85	100.05	0.14	-95.23	4.96	5

Product : Wireless-AXE11000 Tri-band Gigabit Router,
 ROG Rapture Tri-band Gaming Router,
 ROG Rapture GT-AXE11000 tri-band Gaming Router,
 WiFi 6E ROG Rapture GT-AXE11000 Tri-band Gaming Router

Test Item : Maximun Power Spectral Density

Test Mode : Transmit (802.11ax-40 MHz-Beamforming) - NSS-1

Test Date : 2023/04/07

Channel No.	Frequency (MHz)	Reading Level (dB μ V/m)	Path Loss (dB)	Field Strength (dB μ V/m)	Duty Factor (dB)	Correction Factor (dB)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)
35	6125	81.27	18.53	99.80	0.21	-95.23	4.78	5
59	6245	80.62	19.37	99.99	0.21	-95.23	4.97	5
91	6405	79.63	20.29	99.92	0.21	-95.23	4.90	5
99	6445	79.45	20.49	99.94	0.21	-95.23	4.92	5
107	6485	79.48	20.38	99.86	0.21	-95.23	4.84	5
115	6525	79.63	20.31	99.94	0.21	-95.23	4.92	5
123	6565	79.40	20.41	99.81	0.21	-95.23	4.79	5
147	6685	79.00	20.89	99.89	0.21	-95.23	4.87	5
179	6845	78.81	21.05	99.86	0.21	-95.23	4.84	5
187	6885	79.07	20.84	99.91	0.21	-95.23	4.89	5
195	6925	78.97	20.87	99.84	0.21	-95.23	4.82	5
211	7005	78.94	20.89	99.83	0.21	-95.23	4.81	5
227	7085	79.06	20.87	99.93	0.21	-95.23	4.91	5

Product : Wireless-AXE11000 Tri-band Gigabit Router,
 ROG Rapture Tri-band Gaming Router,
 ROG Rapture GT-AXE11000 tri-band Gaming Router,
 WiFi 6E ROG Rapture GT-AXE11000 Tri-band Gaming Router

Test Item : Maximun Power Spectral Density

Test Mode : Transmit (802.11ax-80 MHz-Beamforming) - NSS-1

Test Date : 2023/04/07

Channel No.	Frequency (MHz)	Reading Level (dB μ V/m)	Path Loss (dB)	Field Strength (dB μ V/m)	Duty Factor (dB)	Correction Factor (dB)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)
39	6145	81.14	18.66	99.80	0.22	-95.23	4.79	5
55	6225	80.52	19.27	99.79	0.22	-95.23	4.78	5
87	6385	79.55	20.18	99.73	0.22	-95.23	4.72	5
103	6465	79.33	20.44	99.77	0.22	-95.23	4.76	5
119	6545	79.62	20.36	99.98	0.22	-95.23	4.97	5
135	6625	79.35	20.60	99.95	0.22	-95.23	4.94	5
151	6705	78.84	21.06	99.90	0.22	-95.23	4.89	5
167	6785	78.04	21.84	99.88	0.22	-95.23	4.87	5
183	6865	79.07	20.80	99.87	0.22	-95.23	4.86	5
199	6945	78.93	20.87	99.80	0.22	-95.23	4.79	5
215	7025	79.01	20.93	99.94	0.22	-95.23	4.93	5

Product : Wireless-AXE11000 Tri-band Gigabit Router,
 ROG Rapture Tri-band Gaming Router,
 ROG Rapture GT-AXE11000 tri-band Gaming Router,
 WiFi 6E ROG Rapture GT-AXE11000 Tri-band Gaming Router

Test Item : Maximun Power Spectral Density

Test Mode : Transmit (802.11ax-160 MHz-Beamforming) - NSS-1

Test Date : 2023/04/07

Channel No.	Frequency (MHz)	Reading Level (dB μ V/m)	Path Loss (dB)	Field Strength (dB μ V/m)	Duty Factor (dB)	Correction Factor (dB)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)
47	6185	80.7	19	99.70	0.23	-95.23	4.70	5
79	6345	79.79	19.98	99.77	0.23	-95.23	4.77	5
111	6505	79.59	20.34	99.93	0.23	-95.23	4.93	5
143	6665	79.13	20.79	99.92	0.23	-95.23	4.92	5
175	6825	78.59	21.3	99.89	0.23	-95.23	4.89	5
207	6985	78.8	20.88	99.68	0.23	-95.23	4.68	5

Product : Wireless-AXE11000 Tri-band Gigabit Router,
 ROG Rapture Tri-band Gaming Router,
 ROG Rapture GT-AXE11000 tri-band Gaming Router,
 WiFi 6E ROG Rapture GT-AXE11000 Tri-band Gaming Router

Test Item : Maximun Power Spectral Density

Test Mode : Transmit (802.11ax-20 MHz-Beamforming) - NSS-2

Test Date : 2023/04/07

Channel No.	Frequency (MHz)	Reading Level (dB μ V/m)	Path Loss (dB)	Field Strength (dB μ V/m)	Duty Factor (dB)	Correction Factor (dB)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)
33	6115	81.58	18.44	100.02	0.15	-95.23	4.94	5
61	6255	80.34	19.44	99.78	0.15	-95.23	4.70	5
93	6415	79.51	20.39	99.90	0.15	-95.23	4.82	5
97	6435	79.33	20.48	99.81	0.15	-95.23	4.73	5
105	6475	79.58	20.39	99.97	0.15	-95.23	4.89	5
113	6515	79.46	20.31	99.77	0.15	-95.23	4.69	5
117	6535	79.59	20.31	99.90	0.15	-95.23	4.82	5
149	6695	79.00	21.01	100.01	0.15	-95.23	4.93	5
181	6855	78.92	21.03	99.95	0.15	-95.23	4.87	5
185	6875	79.26	20.81	100.07	0.15	-95.23	4.99	5
189	6895	79.19	20.85	100.04	0.15	-95.23	4.96	5
213	7015	78.95	20.91	99.86	0.15	-95.23	4.78	5
229	7095	79.11	20.85	99.96	0.15	-95.23	4.88	5

Product : Wireless-AXE11000 Tri-band Gigabit Router,
 ROG Rapture Tri-band Gaming Router,
 ROG Rapture GT-AXE11000 tri-band Gaming Router,
 WiFi 6E ROG Rapture GT-AXE11000 Tri-band Gaming Router

Test Item : Maximun Power Spectral Density

Test Mode : Transmit (802.11ax-40 MHz-Beamforming) - NSS-2

Test Date : 2023/04/07

Channel No.	Frequency (MHz)	Reading Level (dB μ V/m)	Path Loss (dB)	Field Strength (dB μ V/m)	Duty Factor (dB)	Correction Factor (dB)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)
35	6125	81.34	18.53	99.87	0.19	-95.23	4.83	5
59	6245	80.40	19.37	99.77	0.19	-95.23	4.73	5
91	6405	79.68	20.29	99.97	0.19	-95.23	4.93	5
99	6445	79.33	20.49	99.82	0.19	-95.23	4.78	5
107	6485	79.51	20.38	99.89	0.19	-95.23	4.85	5
115	6525	79.53	20.31	99.84	0.19	-95.23	4.80	5
123	6565	79.53	20.41	99.94	0.19	-95.23	4.90	5
147	6685	78.96	20.89	99.85	0.19	-95.23	4.81	5
179	6845	78.69	21.05	99.74	0.19	-95.23	4.70	5
187	6885	79.02	20.84	99.86	0.19	-95.23	4.82	5
195	6925	79.10	20.87	99.97	0.19	-95.23	4.93	5
211	7005	79.14	20.89	100.03	0.19	-95.23	4.99	5
227	7085	79.10	20.87	99.97	0.19	-95.23	4.93	5

Product : Wireless-AXE11000 Tri-band Gigabit Router,
 ROG Rapture Tri-band Gaming Router,
 ROG Rapture GT-AXE11000 tri-band Gaming Router,
 WiFi 6E ROG Rapture GT-AXE11000 Tri-band Gaming Router

Test Item : Maximun Power Spectral Density

Test Mode : Transmit (802.11ax-80 MHz-Beamforming) - NSS-2

Test Date : 2023/04/07

Channel No.	Frequency (MHz)	Reading Level (dB μ V/m)	Path Loss (dB)	Field Strength (dB μ V/m)	Duty Factor (dB)	Correction Factor (dB)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)
39	6145	81.33	18.66	99.99	0.12	-95.23	4.88	5
55	6225	80.80	19.27	100.07	0.12	-95.23	4.96	5
87	6385	79.91	20.18	100.09	0.12	-95.23	4.98	5
103	6465	79.43	20.44	99.87	0.12	-95.23	4.76	5
119	6545	79.57	20.36	99.93	0.12	-95.23	4.82	5
135	6625	79.49	20.60	100.09	0.12	-95.23	4.98	5
151	6705	78.96	21.06	100.02	0.12	-95.23	4.91	5
167	6785	78.26	21.84	100.10	0.12	-95.23	4.99	5
183	6865	79.19	20.80	99.99	0.12	-95.23	4.88	5
199	6945	79.12	20.87	99.99	0.12	-95.23	4.88	5
215	7025	79.09	20.93	100.02	0.12	-95.23	4.91	5

Product : Wireless-AXE11000 Tri-band Gigabit Router,
 ROG Rapture Tri-band Gaming Router,
 ROG Rapture GT-AXE11000 tri-band Gaming Router,
 WiFi 6E ROG Rapture GT-AXE11000 Tri-band Gaming Router

Test Item : Maximun Power Spectral Density

Test Mode : Transmit (802.11ax-160 MHz-Beamforming) - NSS-2

Test Date : 2023/04/07

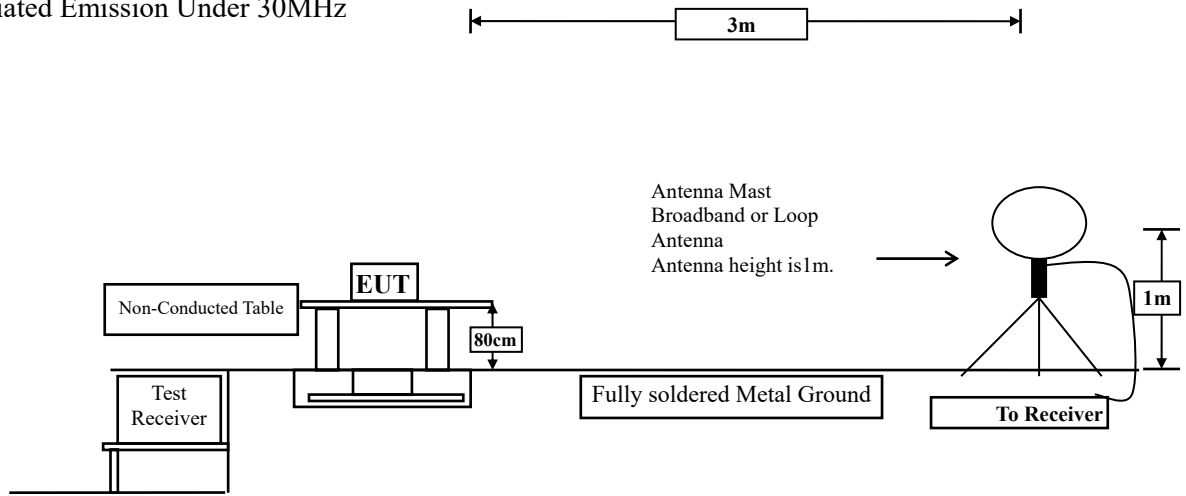
Channel No.	Frequency (MHz)	Reading Level (dB μ V/m)	Path Loss (dB)	Field Strength (dB μ V/m)	Duty Factor (dB)	Correction Factor (dB)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)
47	6185	80.96	19	99.96	0.11	-95.23	4.84	5
79	6345	79.97	19.98	99.95	0.11	-95.23	4.83	5
111	6505	79.53	20.34	99.87	0.11	-95.23	4.75	5
143	6665	79.11	20.79	99.90	0.11	-95.23	4.78	5
175	6825	78.66	21.3	99.96	0.11	-95.23	4.84	5
207	6985	79.01	20.88	99.89	0.11	-95.23	4.77	5

Result	Pass
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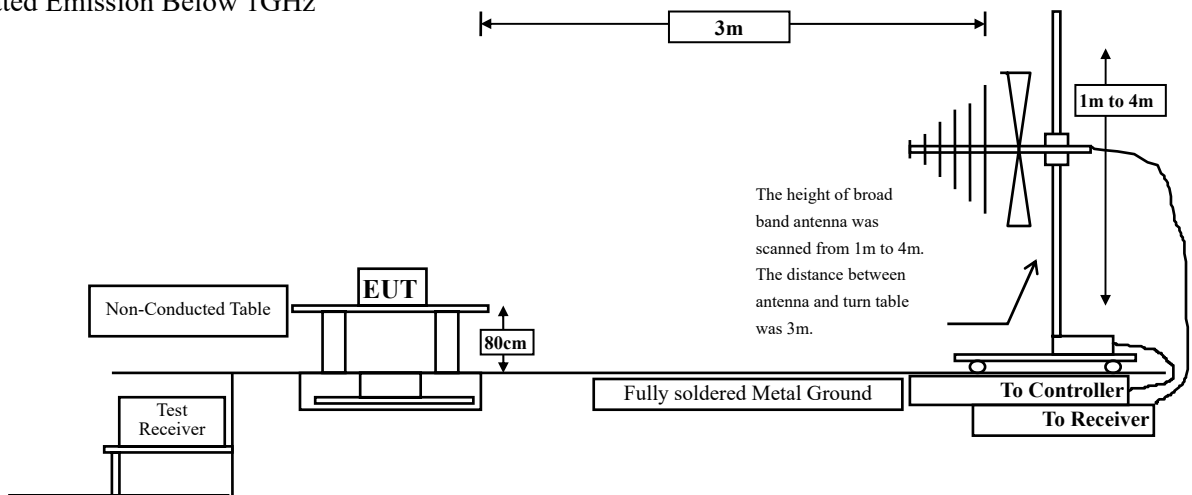
6. Radiated Emission

6.1. Test Setup

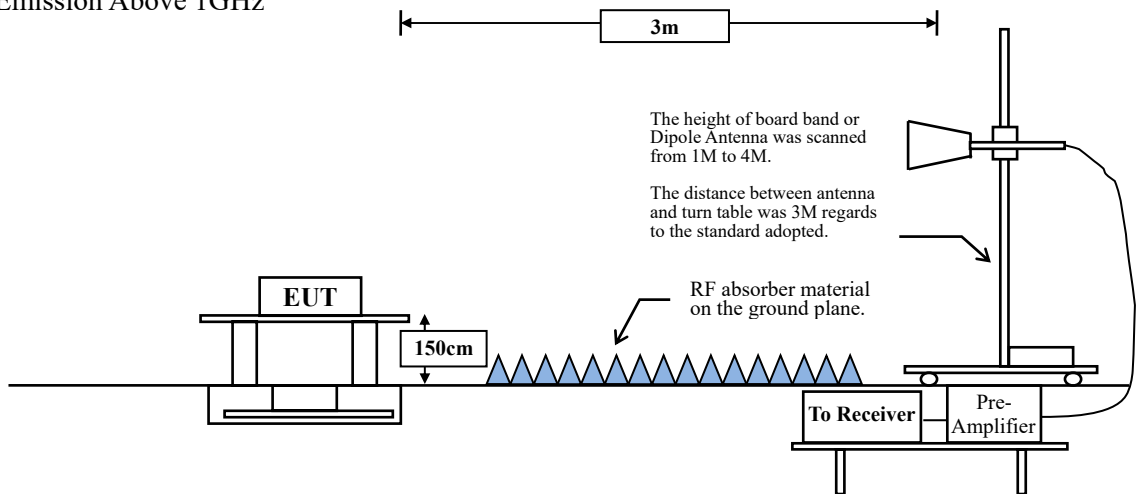
Radiated Emission Under 30MHz



Radiated Emission Below 1GHz



Radiated Emission Above 1GHz



6.2. Limits

General Radiated Emission Limits

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

FCC CFR Title 47 Part 15 Subpart C Paragraph 15.209 Limits		
Frequency MHz	$\mu\text{V/m @3m}$	$\text{dB}\mu\text{V/m@3m}$
30 - 88	100	40
88 - 216	150	43.5
216 - 960	200	46
Above 960	500	54

Remark:

1. RF Voltage ($\text{dB}\mu\text{V}$) = $20 \log$ 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.

Unwanted Emission out of the restricted bands Limits

FCC CFR Title 47 Part 15 Subpart E Paragraph 15.407(b) Limits		
Frequency (MHz)	EIRP Limit (dBm/MHz)	Equivalent Field Strength ($\text{dB}\mu\text{V/m@3m}$)
5925 MHz > F 7125 MHz	Peak: -7	88.2
	Average: -27	68.2

Remark:

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

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

6.3. Test Procedure

The EUT and its simulators are placed on a turn table which is 0.8 or 1.5 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.

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

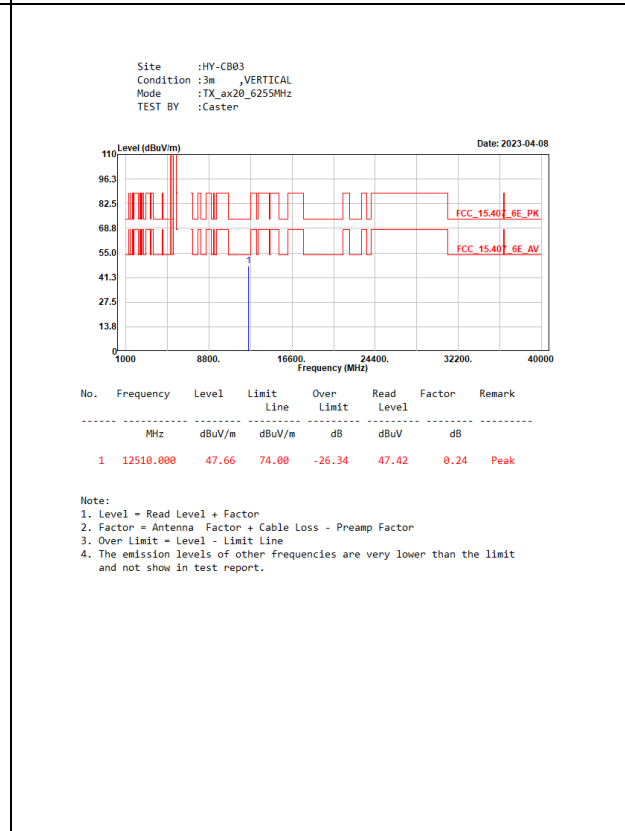
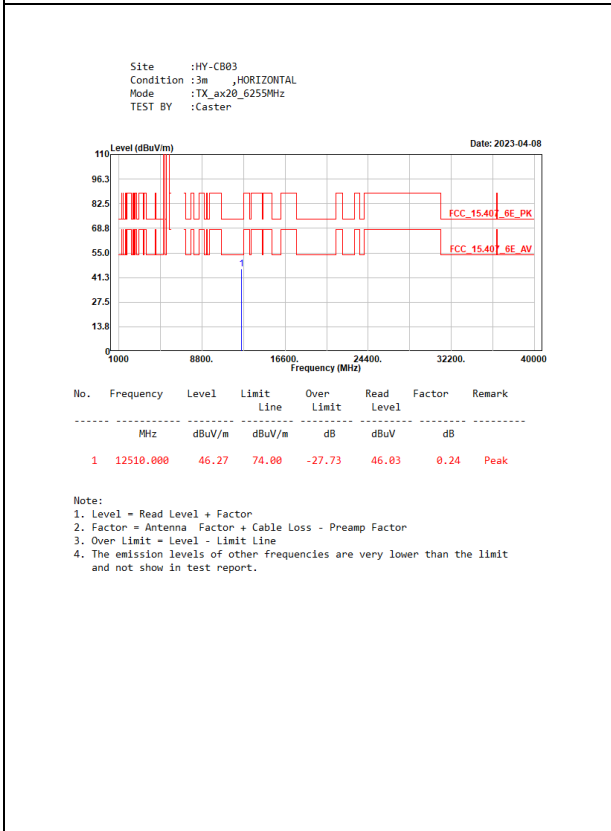
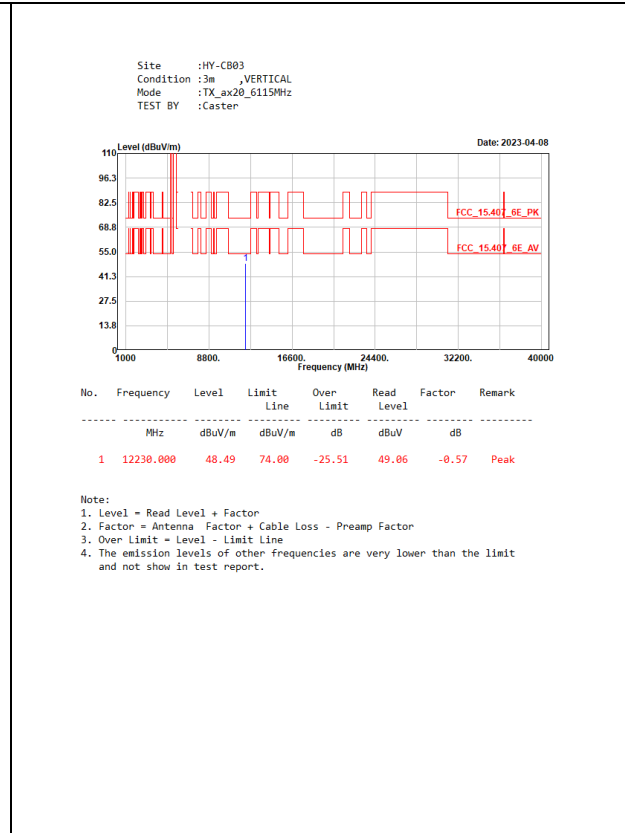
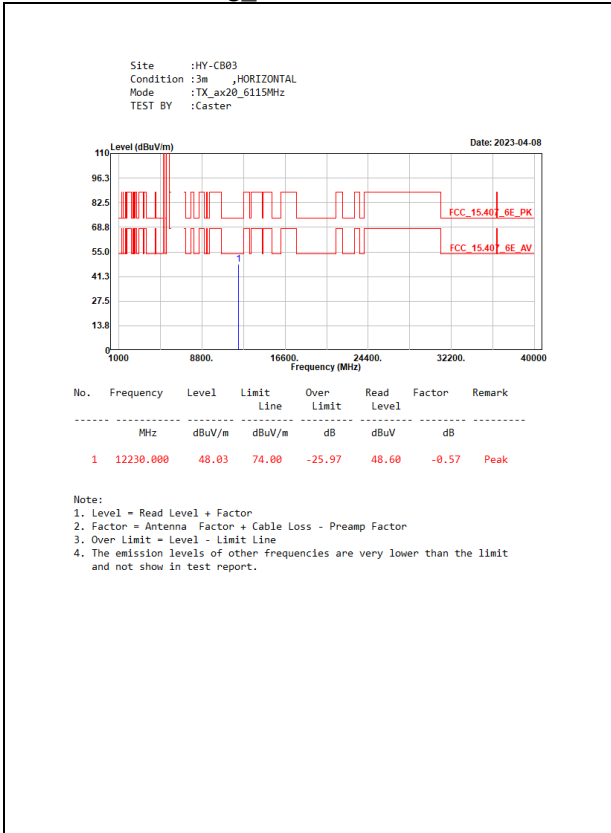
Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated according to ANSI C63.10: 2013 on radiated measurement.

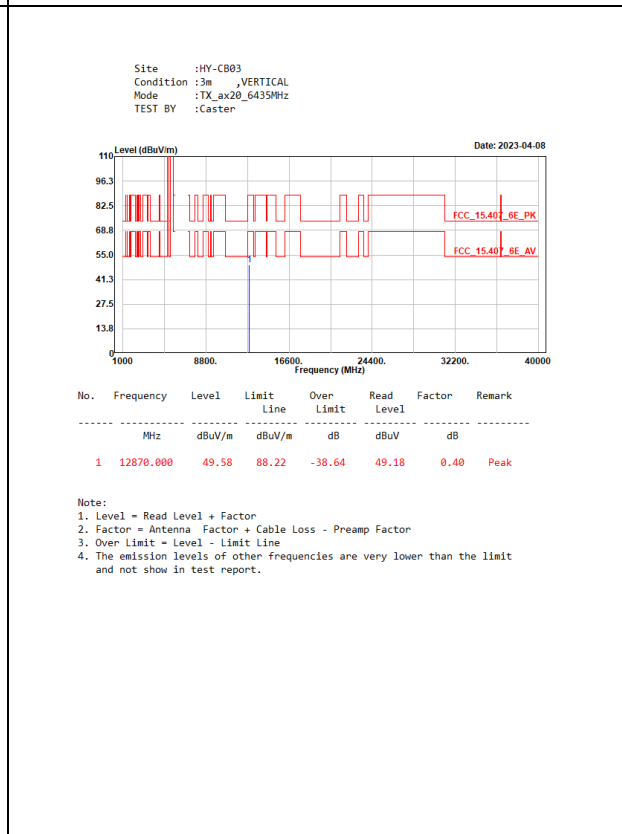
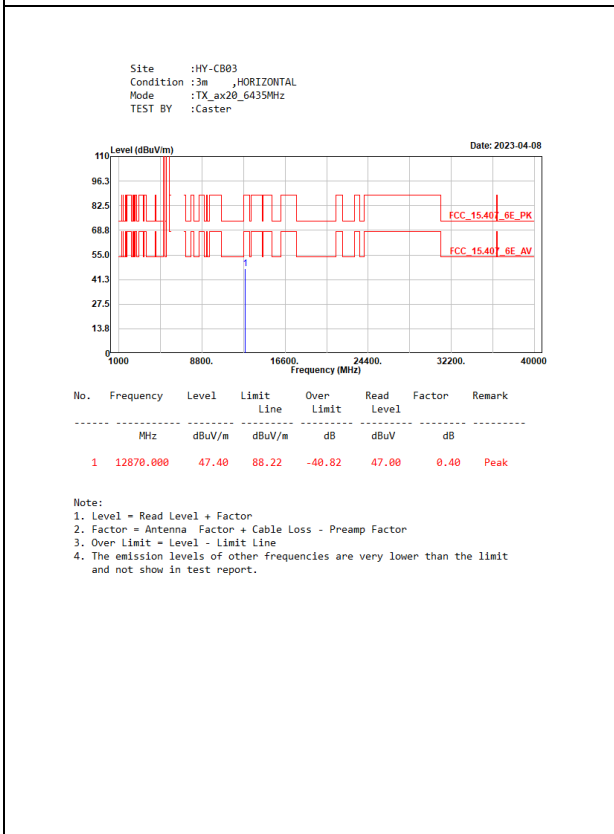
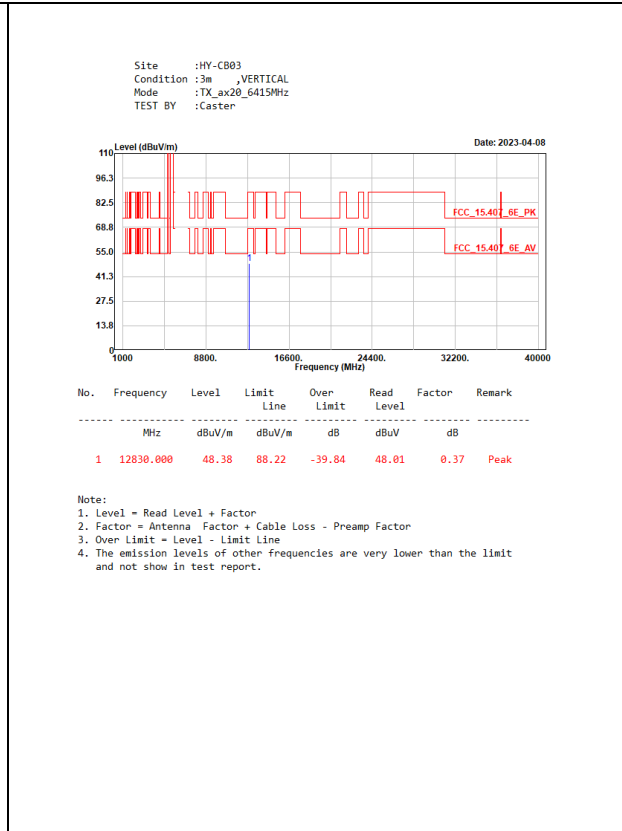
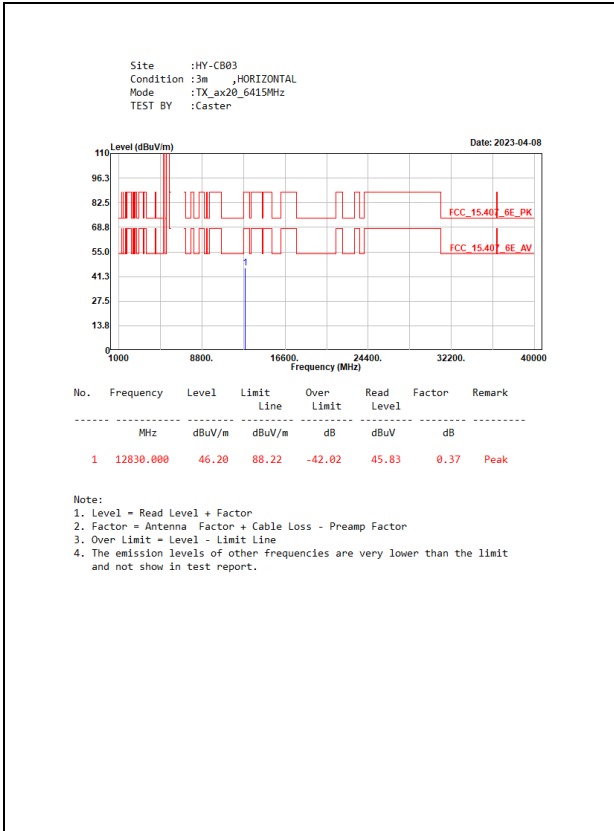
The additional latch filter below 1GHz was used to measure the level of harmonics radiated emission during field strength of harmonics measurement.

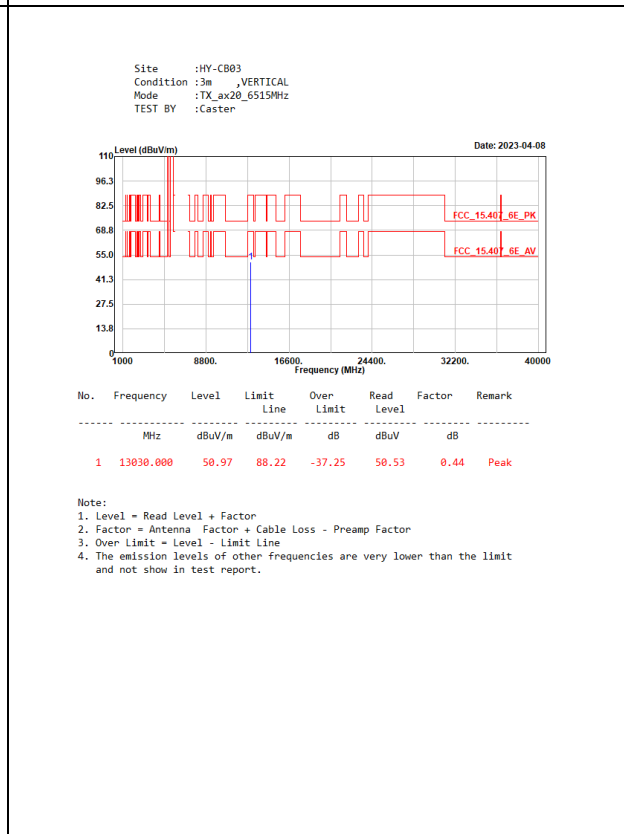
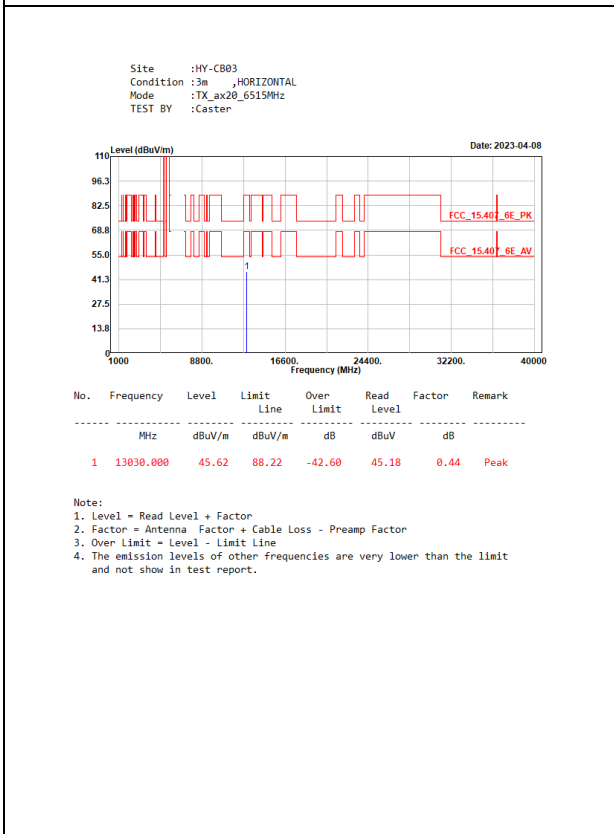
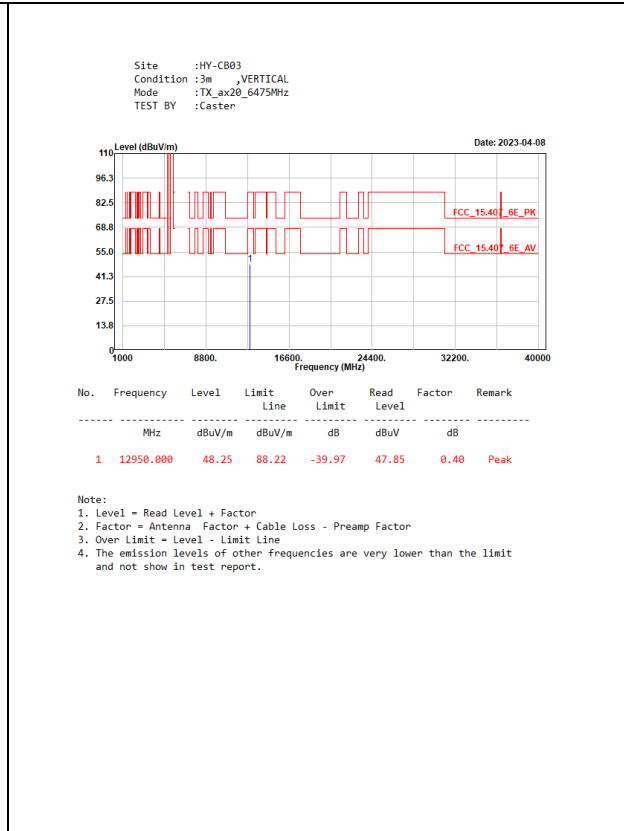
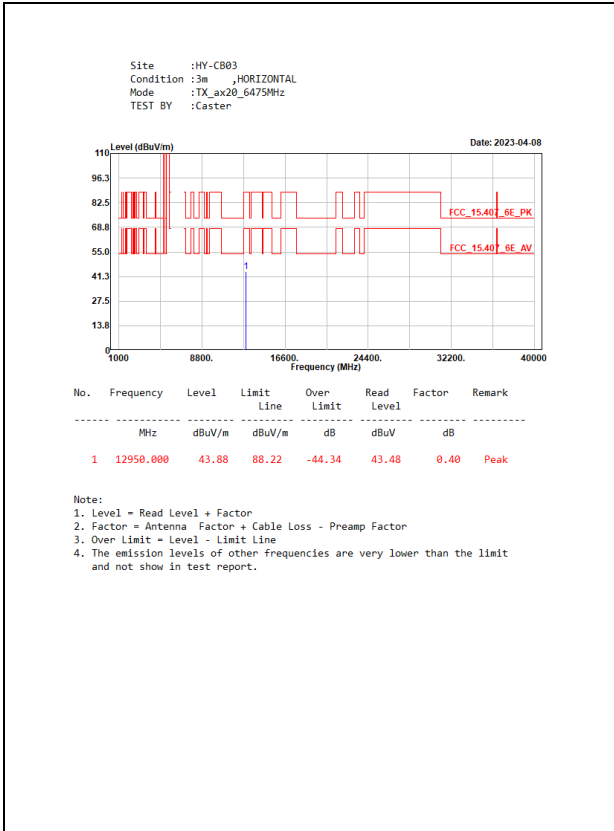
The bandwidth below 1GHz setting on the field strength meter is 120 KHz, above 1GHz are 1 MHz. The frequency range from 30MHz to 10th harmonics and included The frequency range from the lowest oscillator frequency generated within the device up to the 10th harmonic was checked is checked.

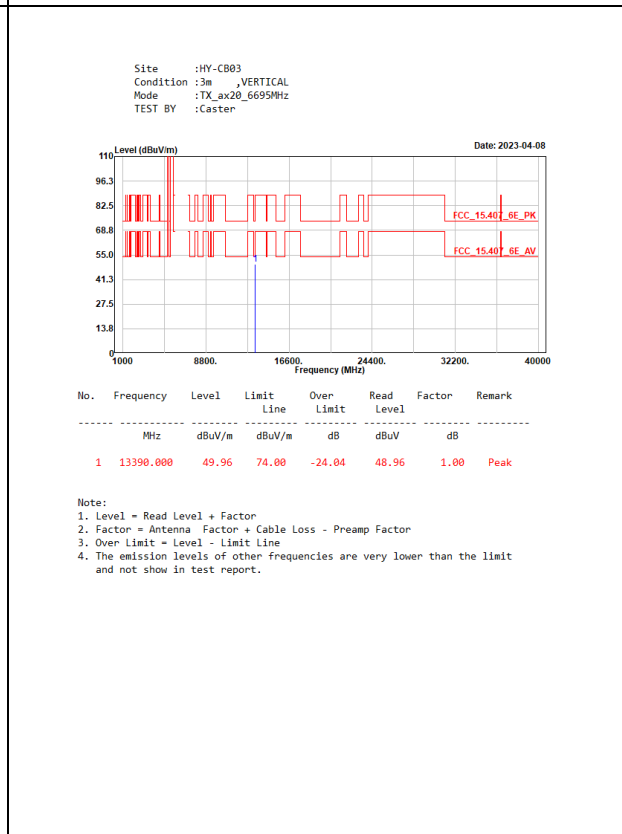
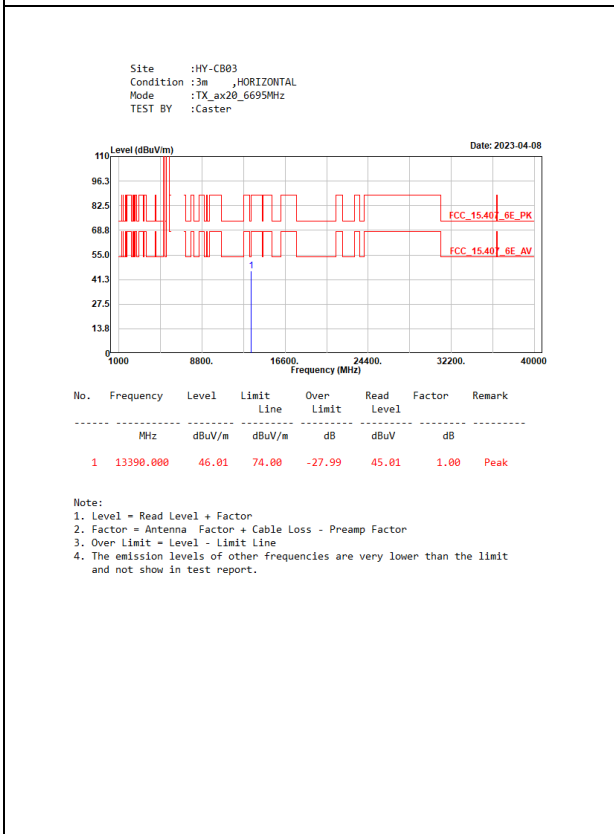
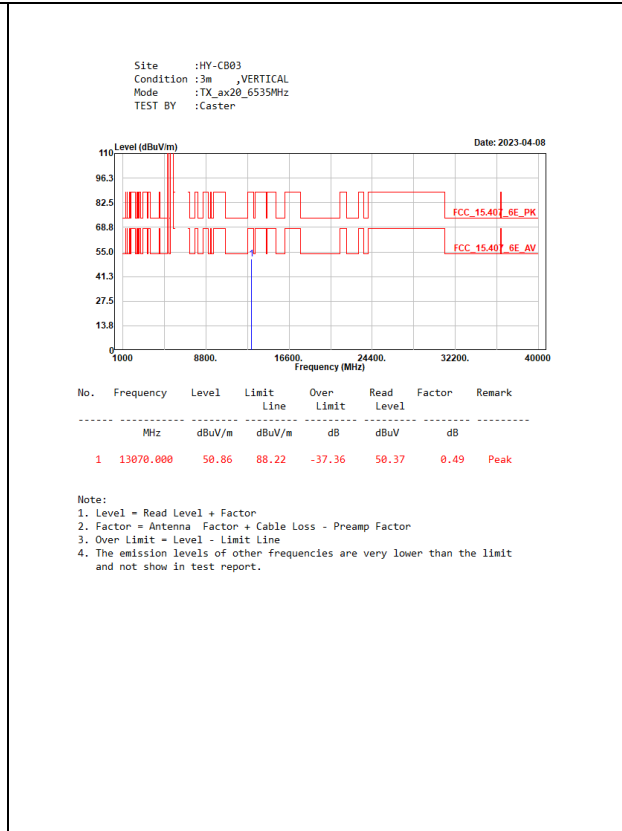
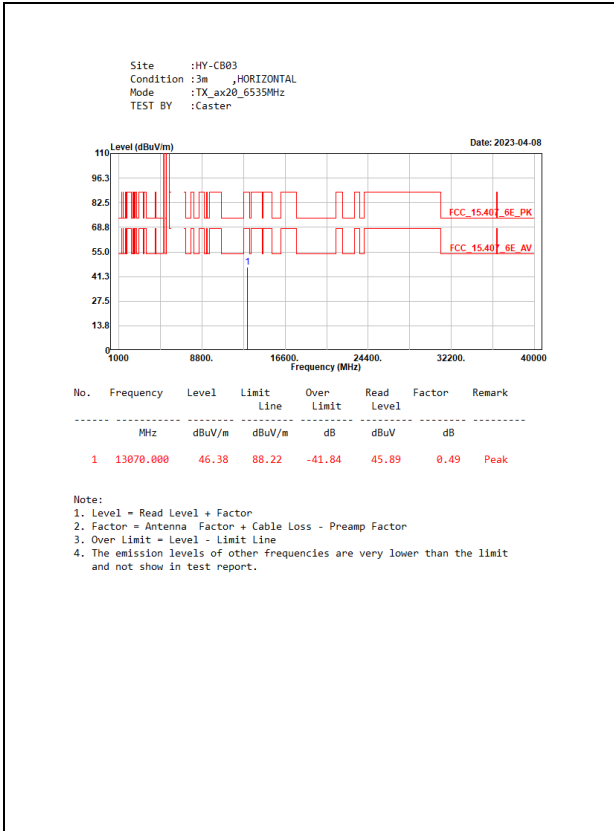
6.4. Test Result of Radiated Emissions

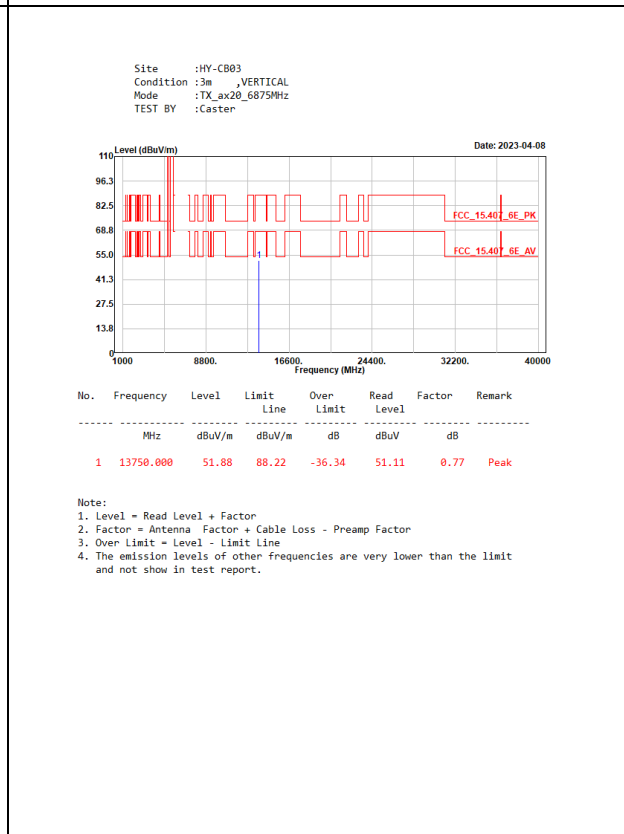
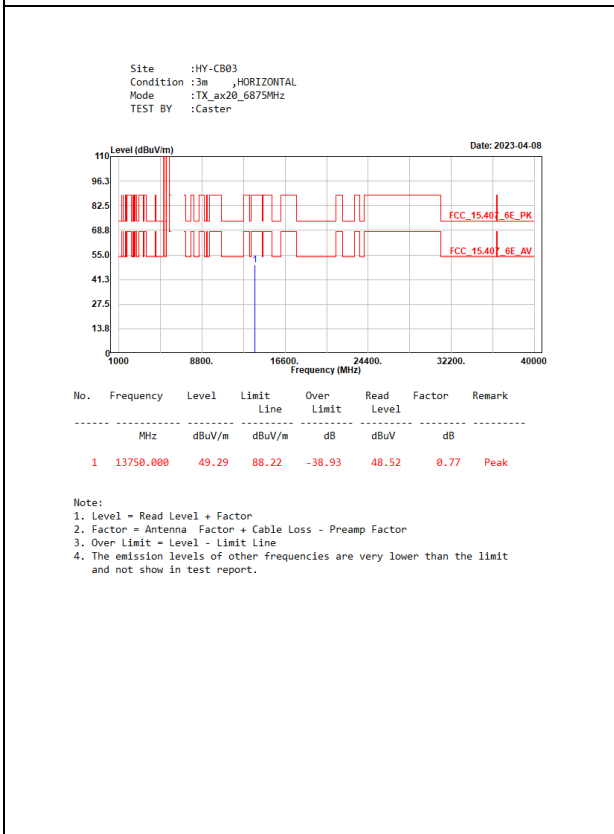
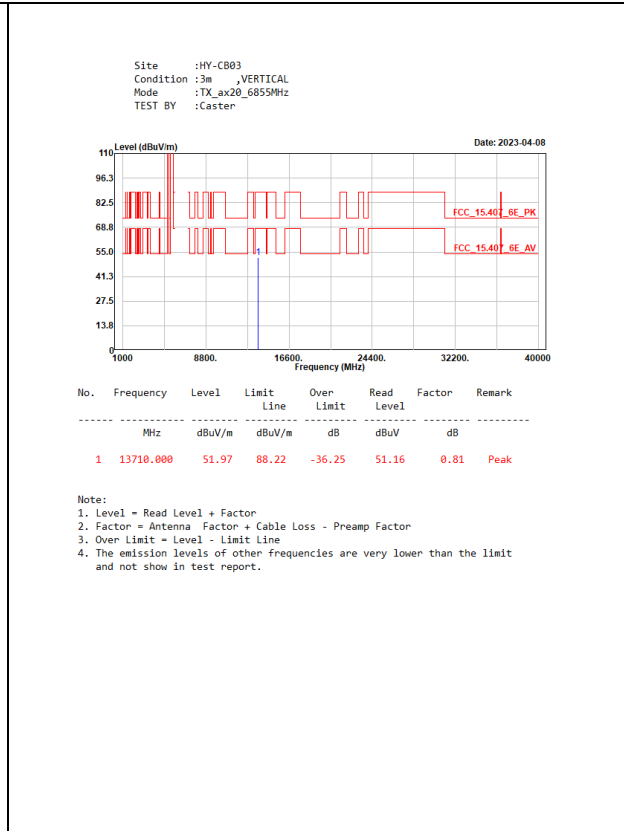
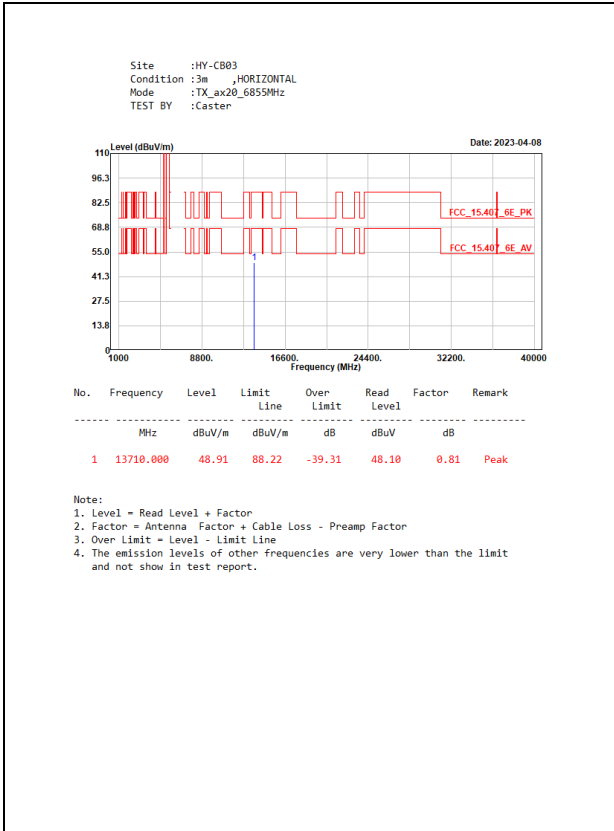
Non-Beamforming NSS-1

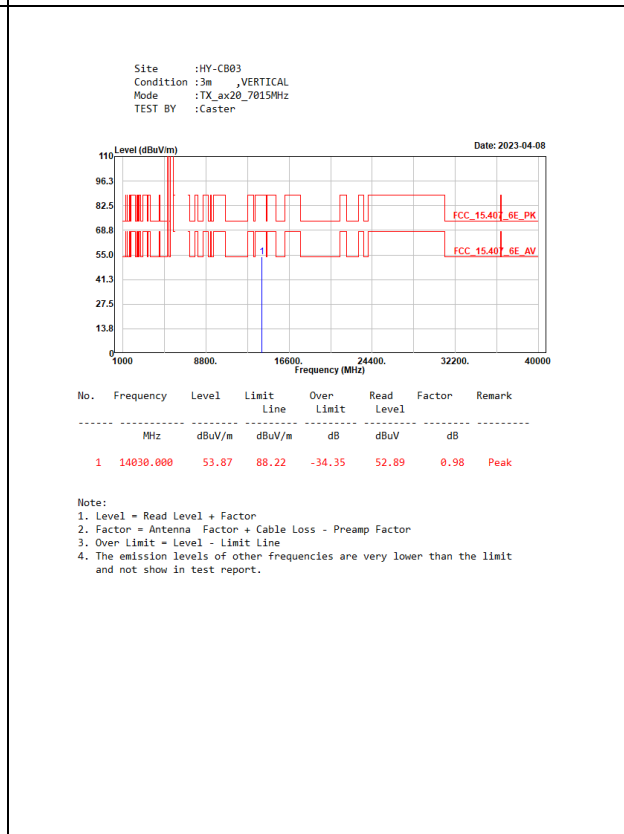
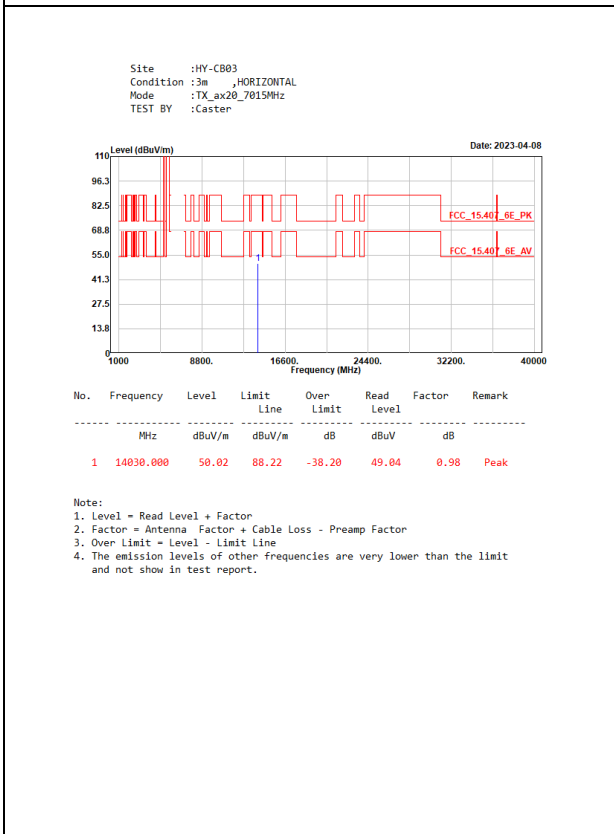
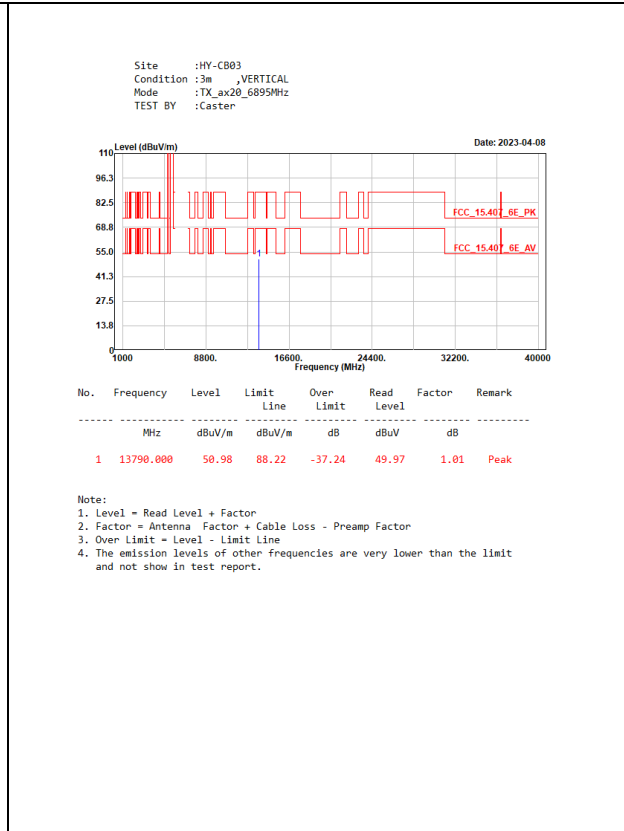
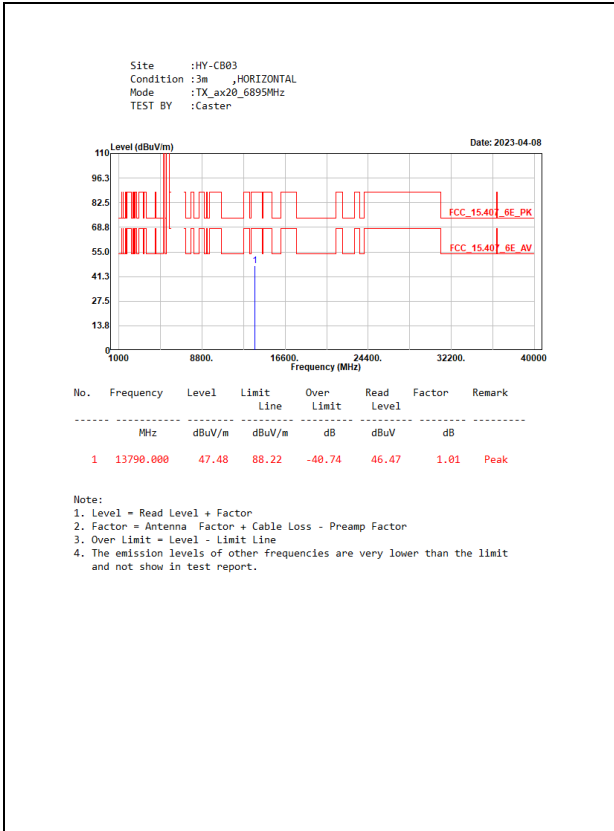


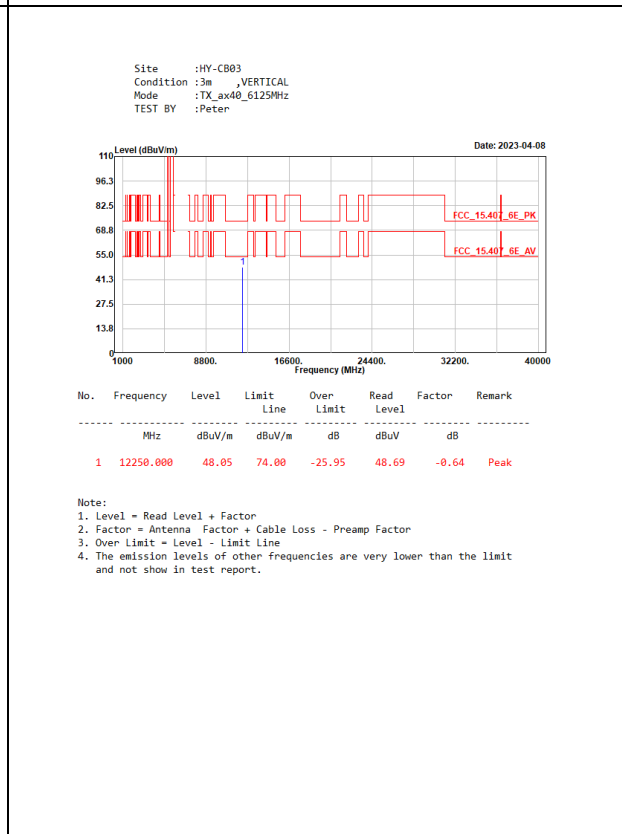
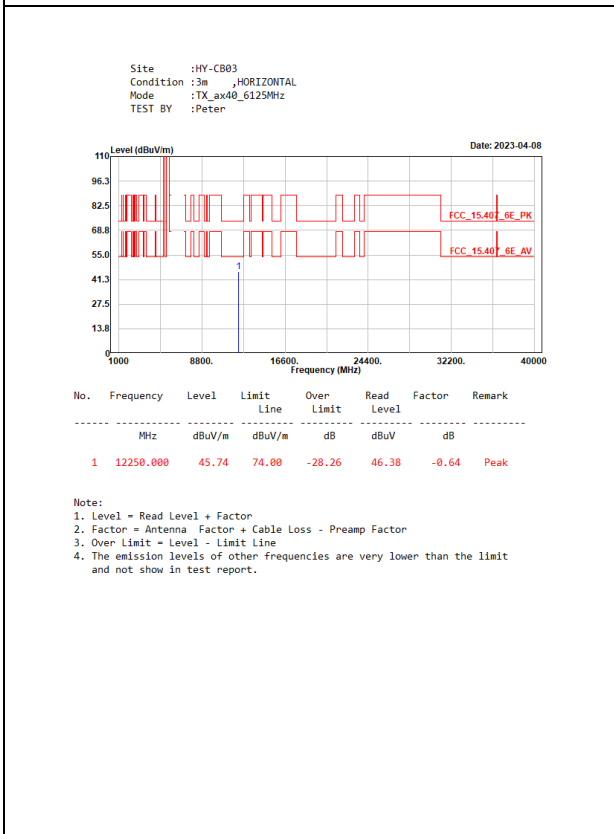
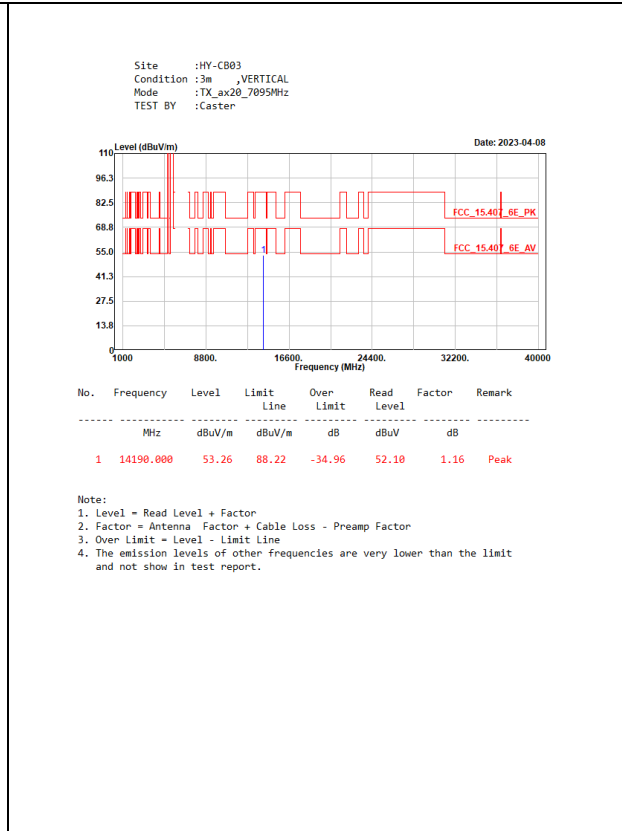
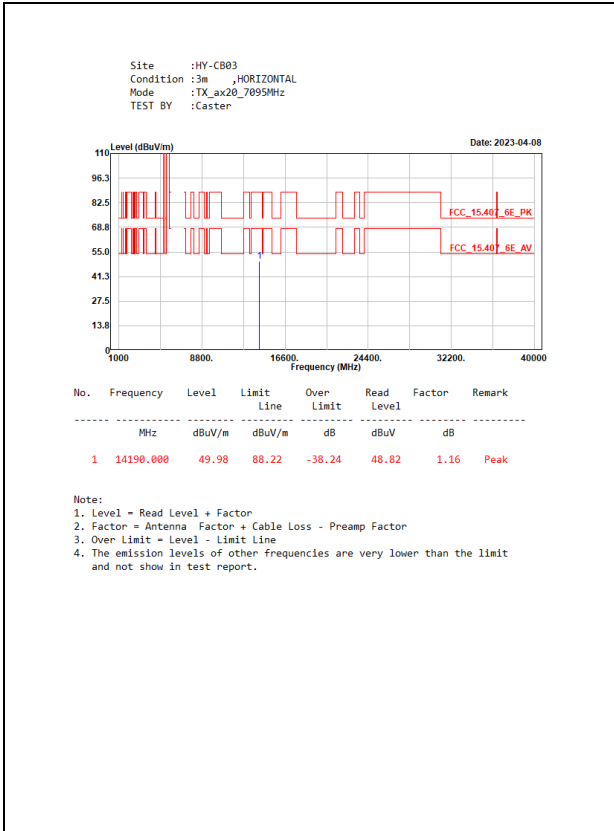


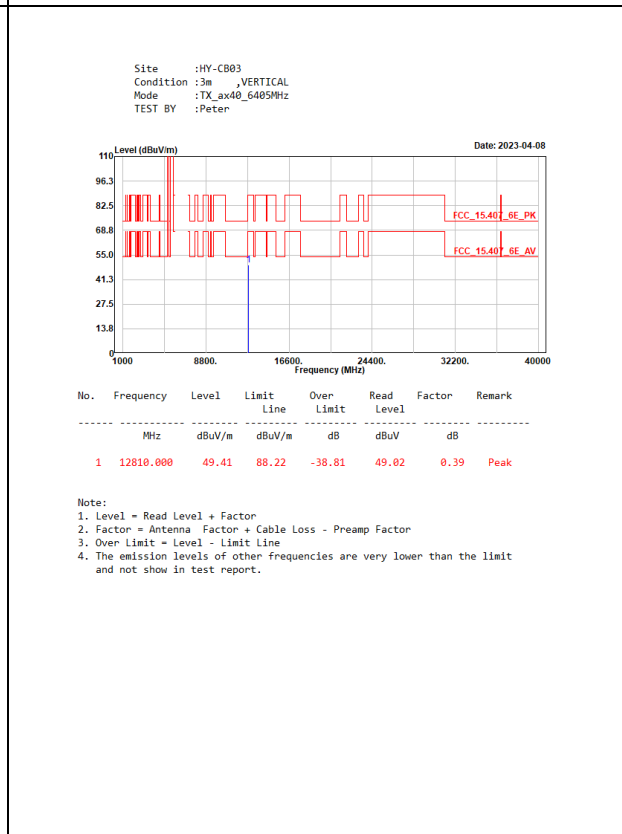
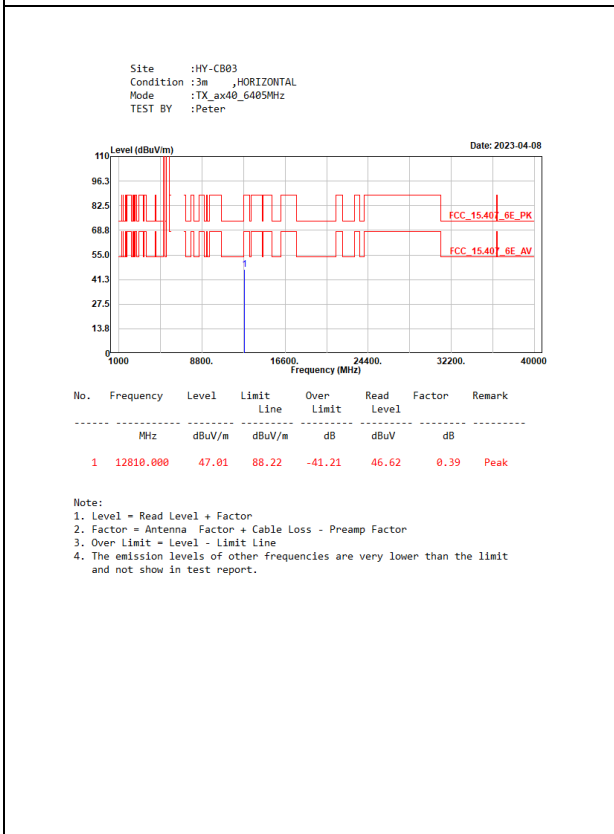
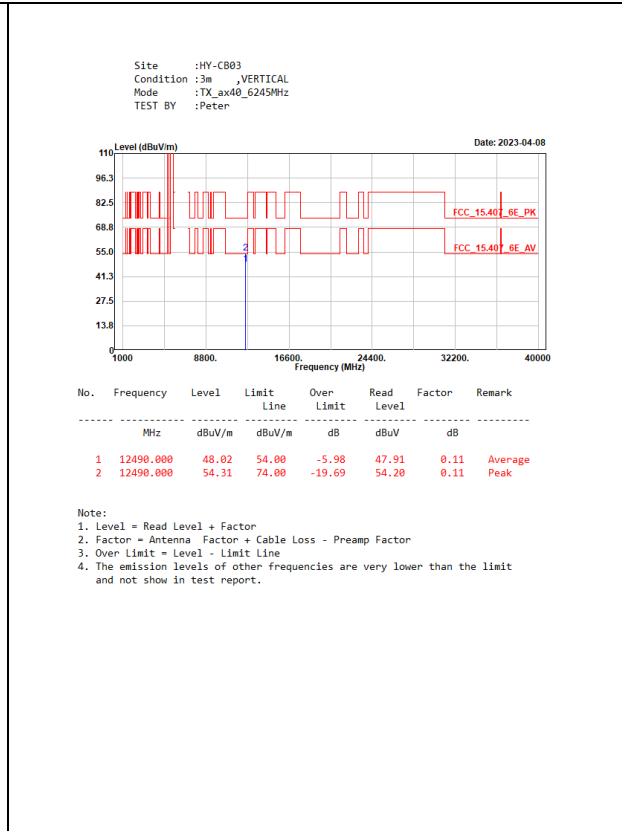
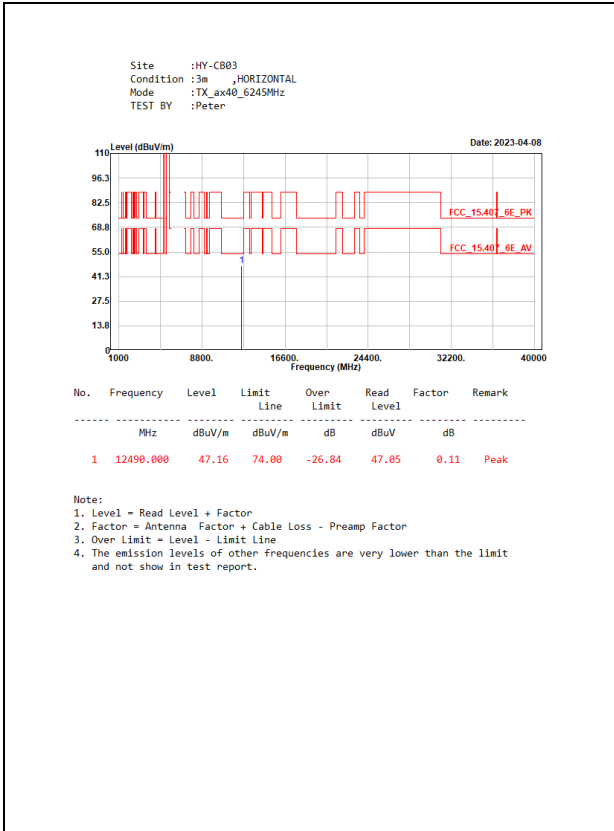


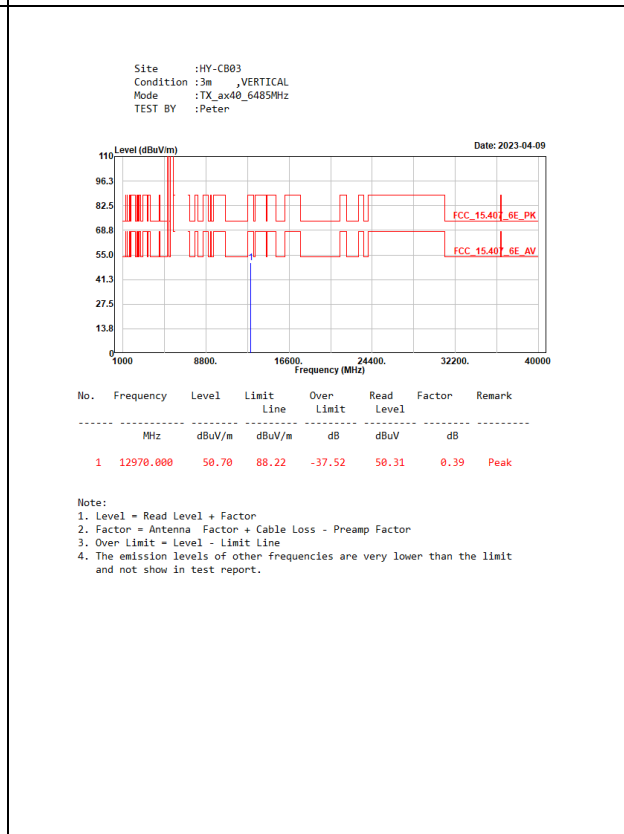
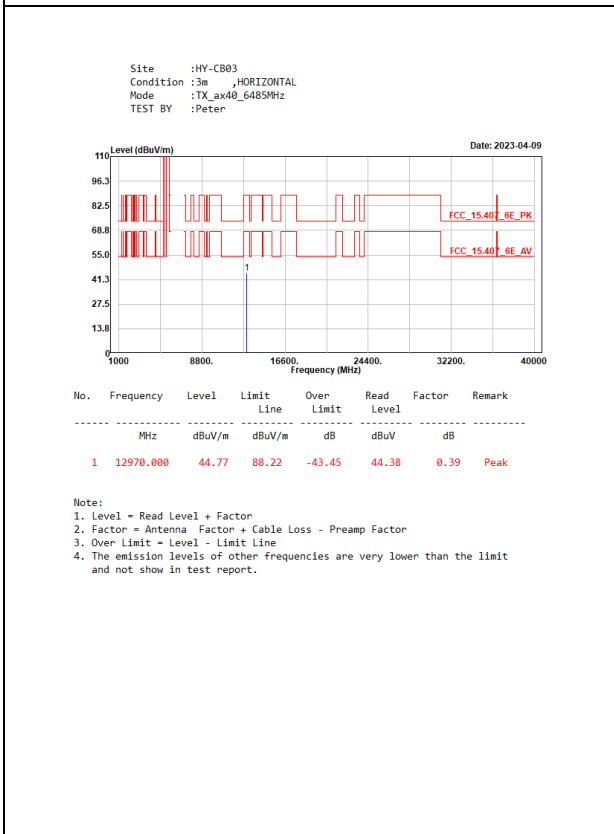
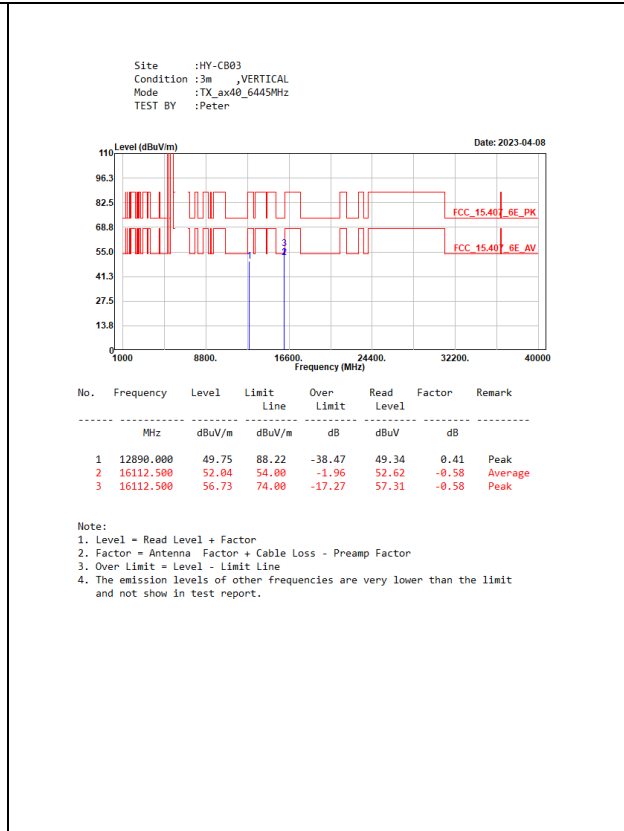
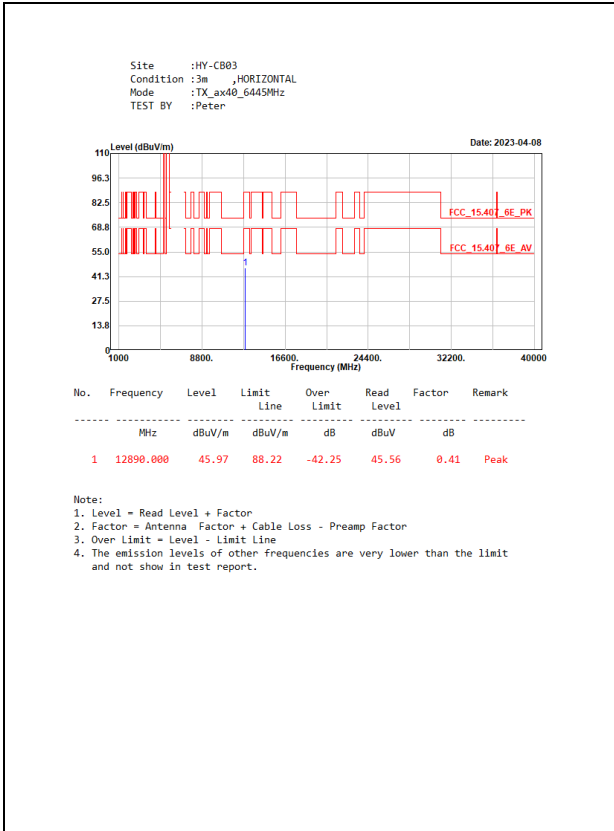


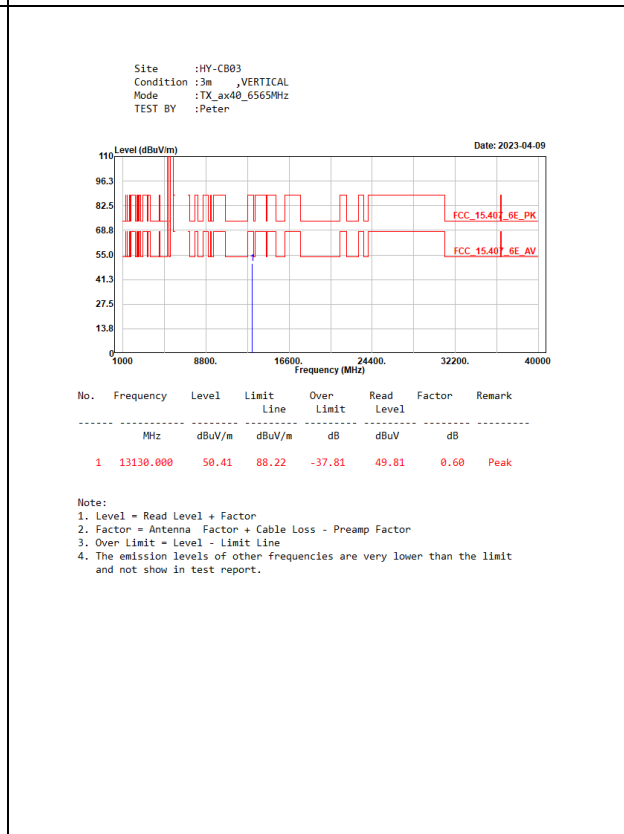
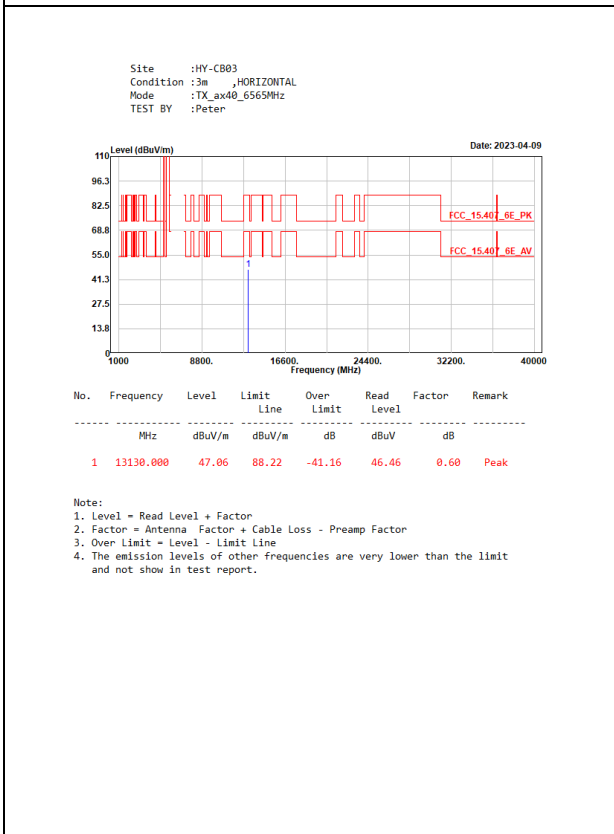
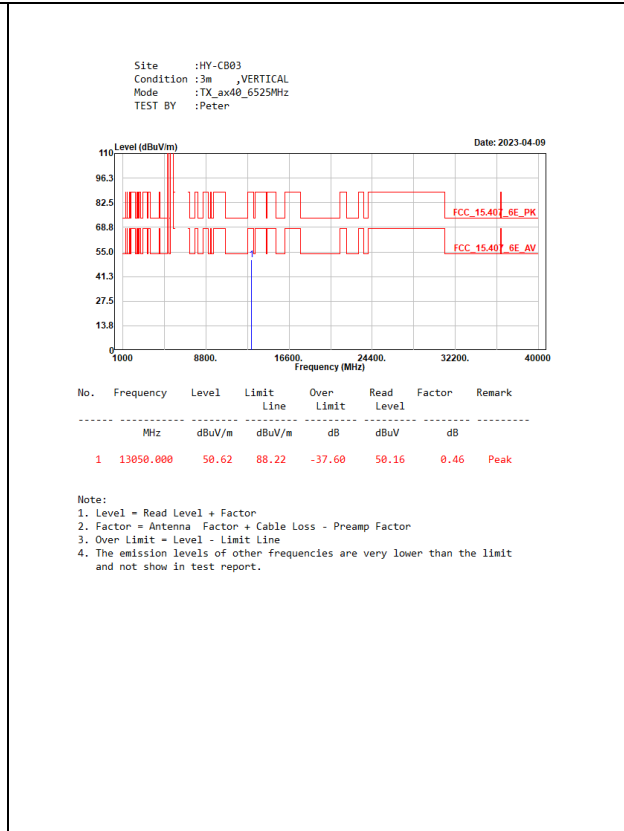
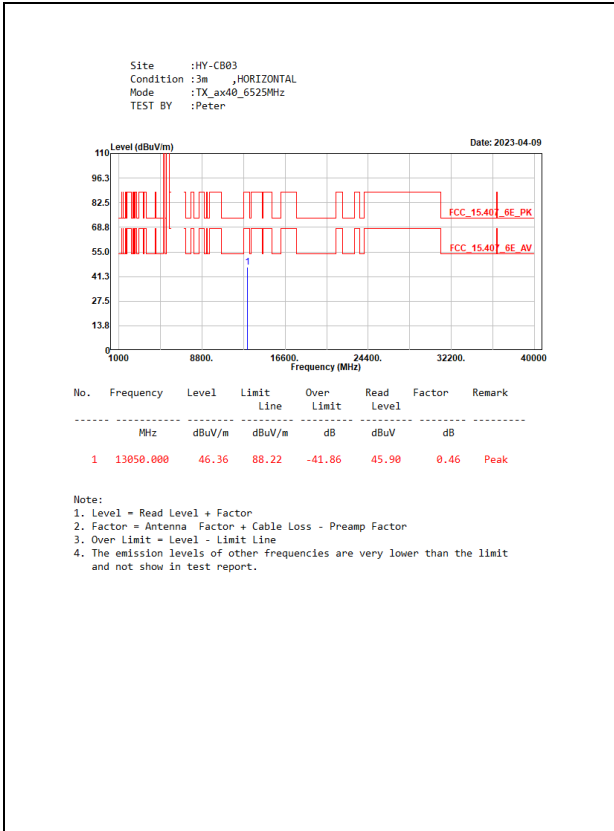


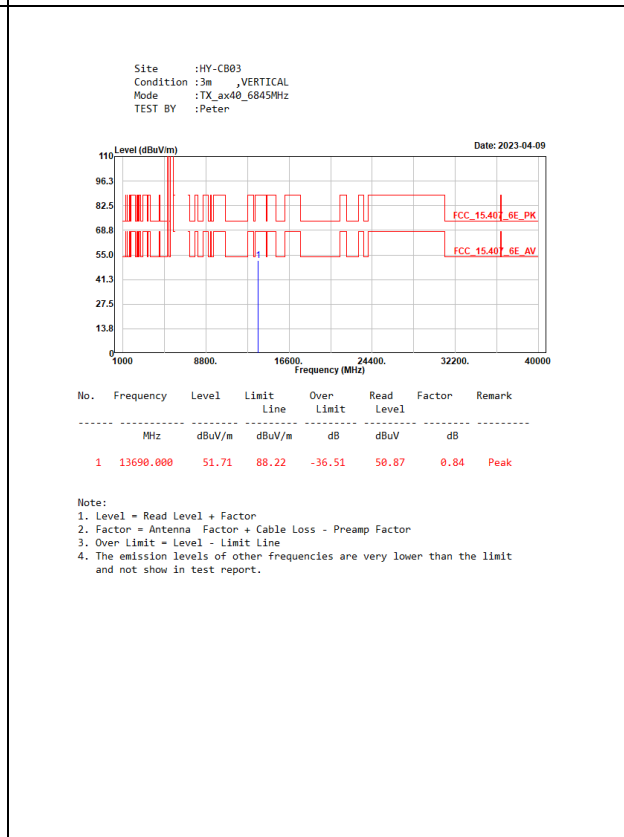
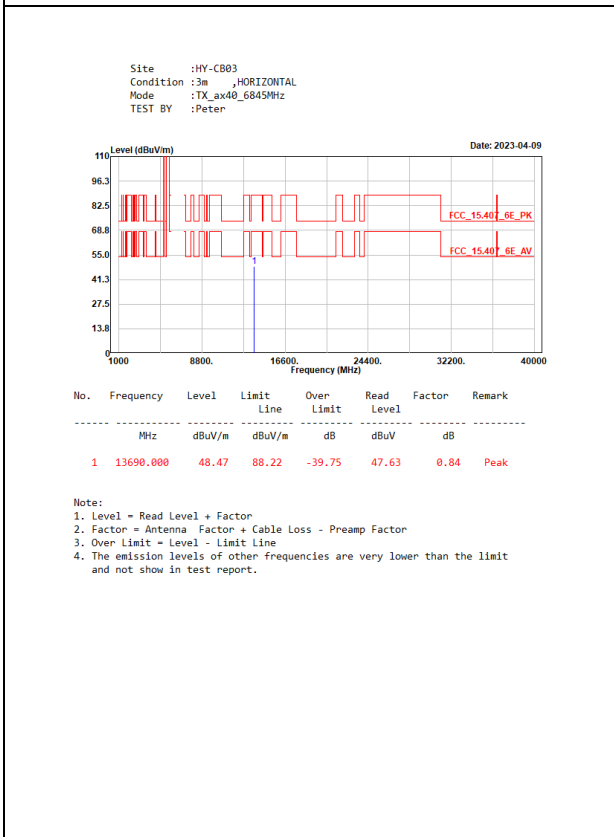
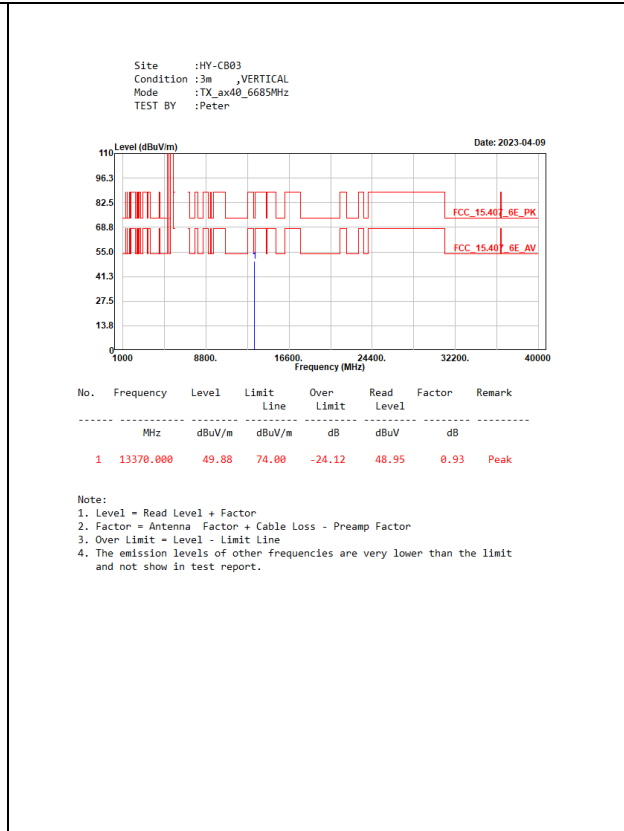
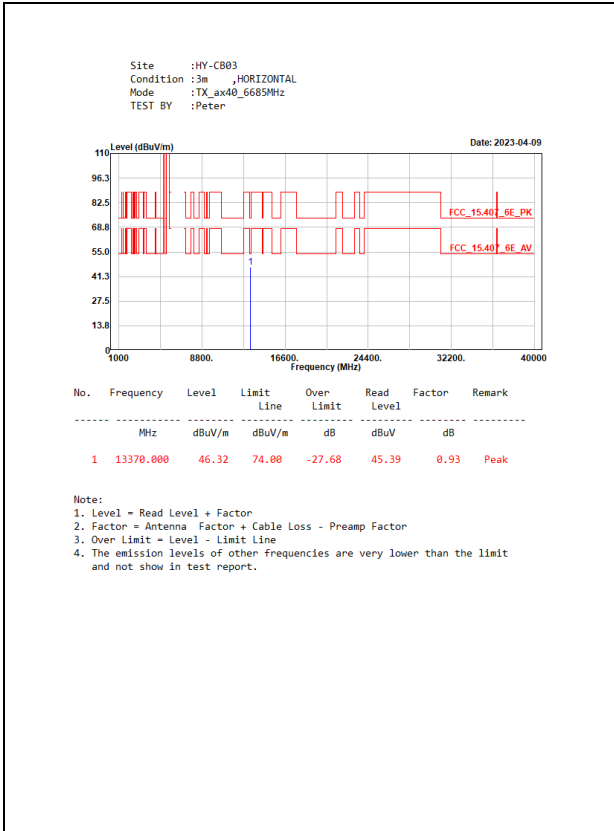


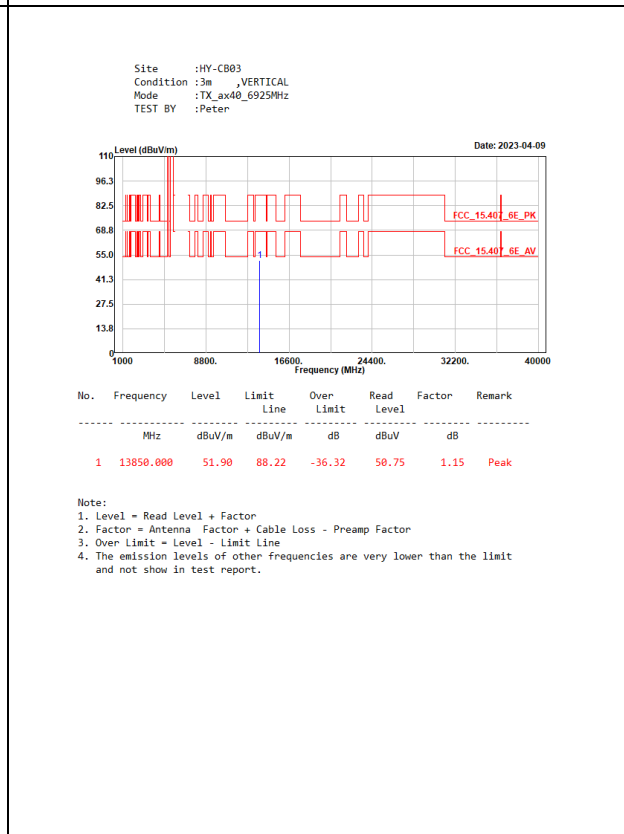
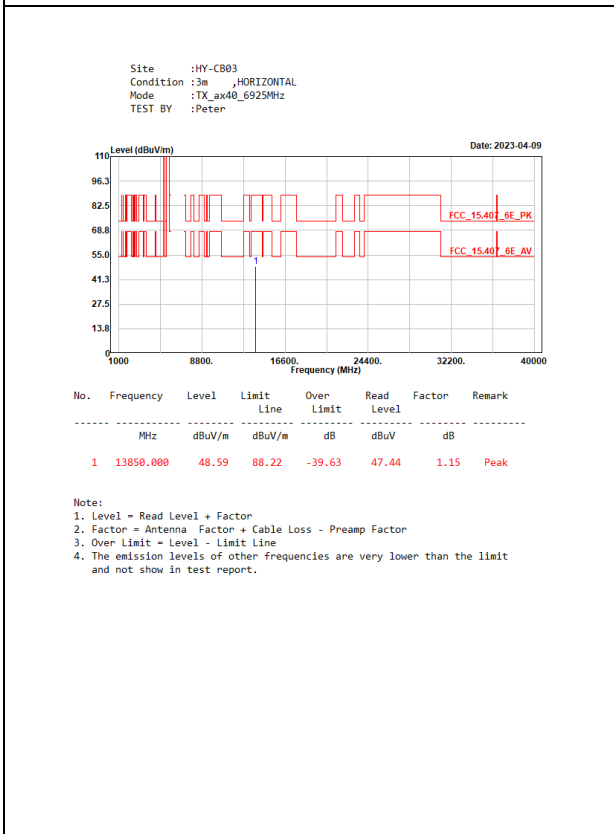
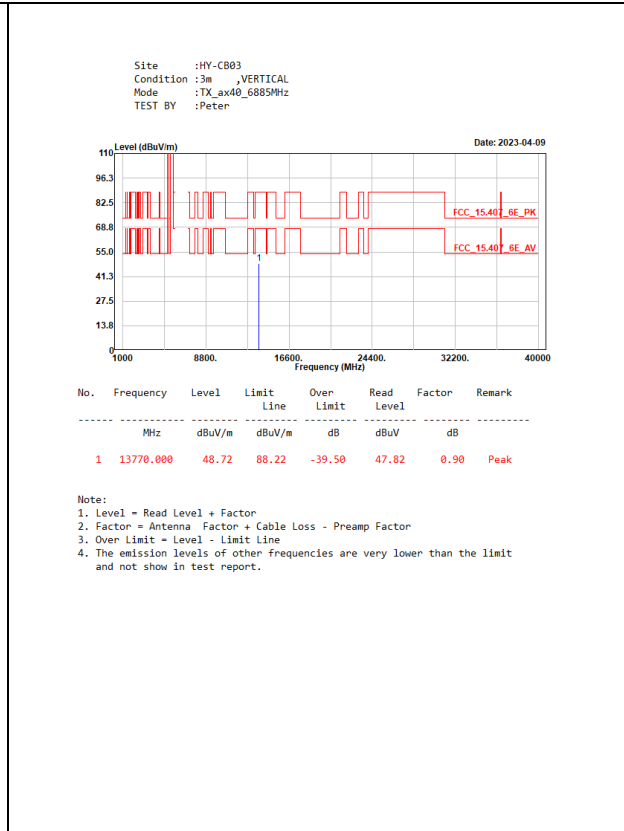
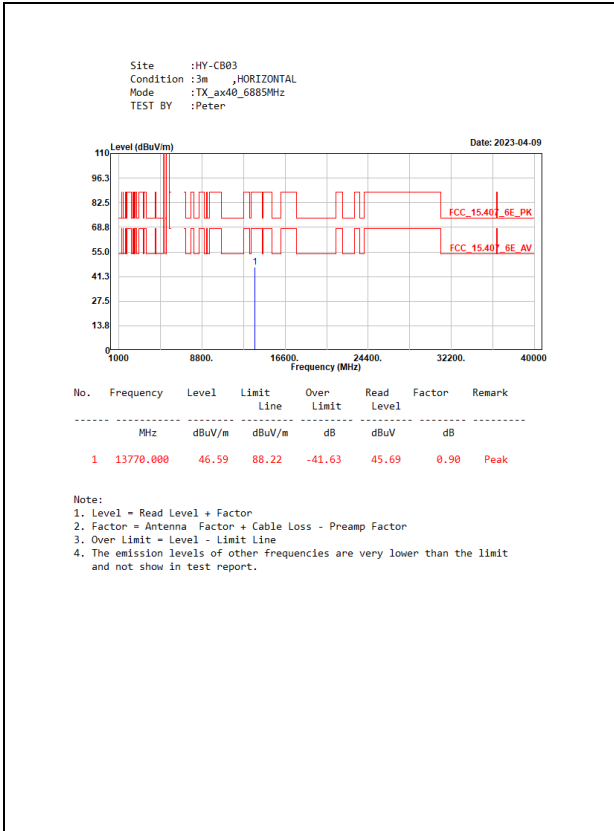


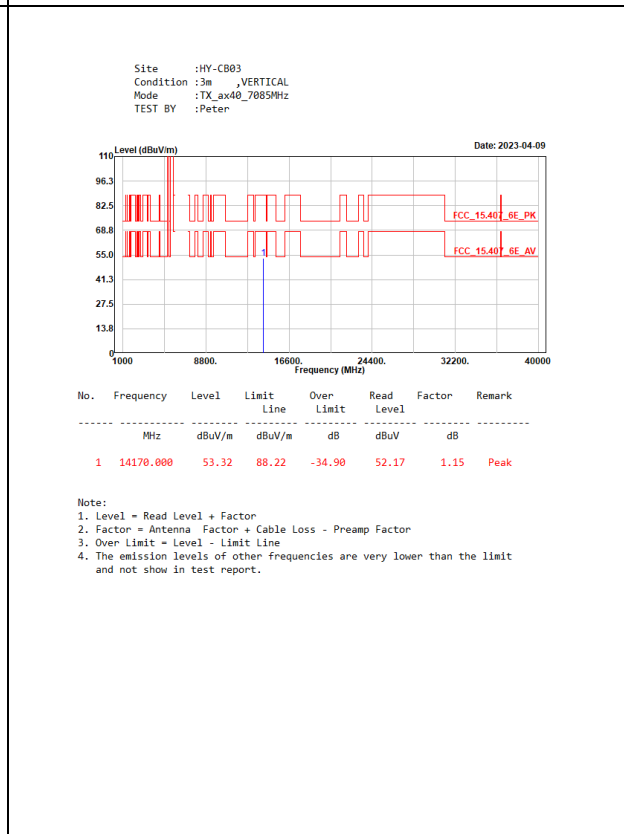
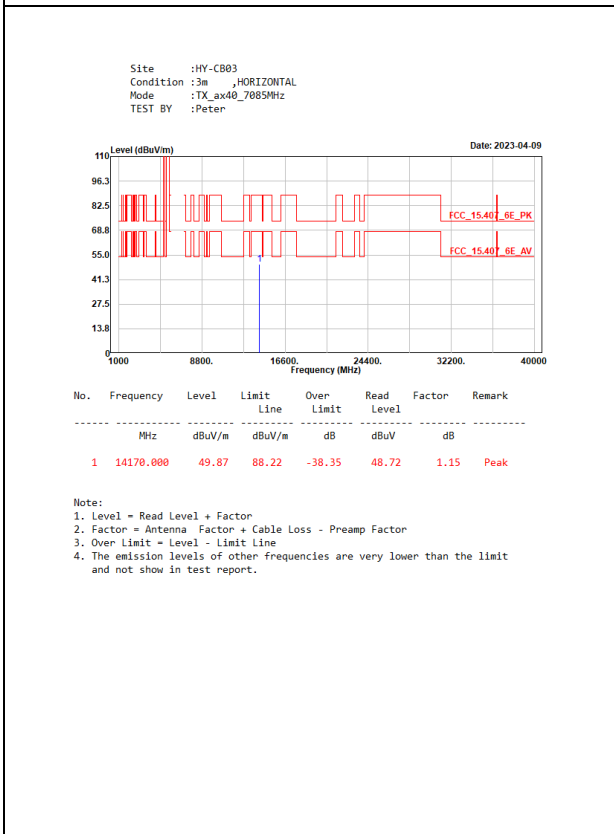
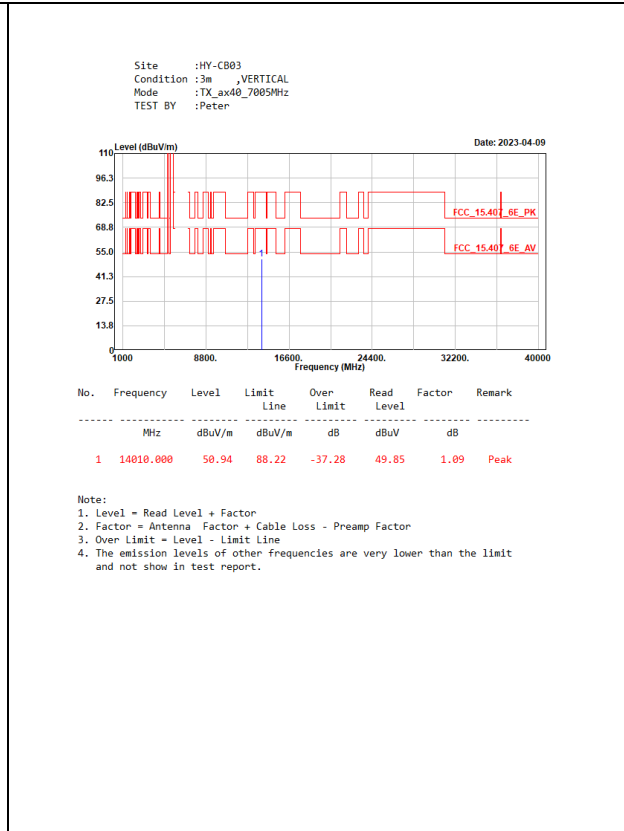
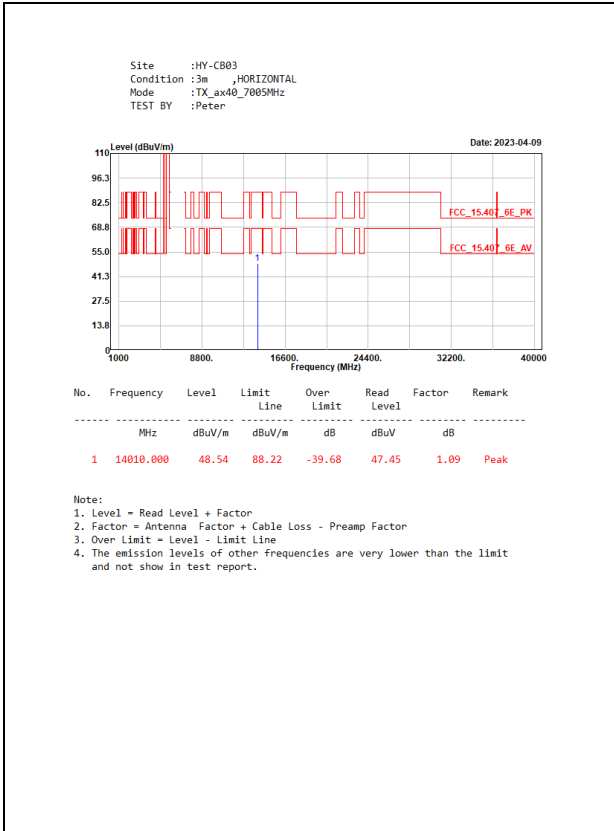


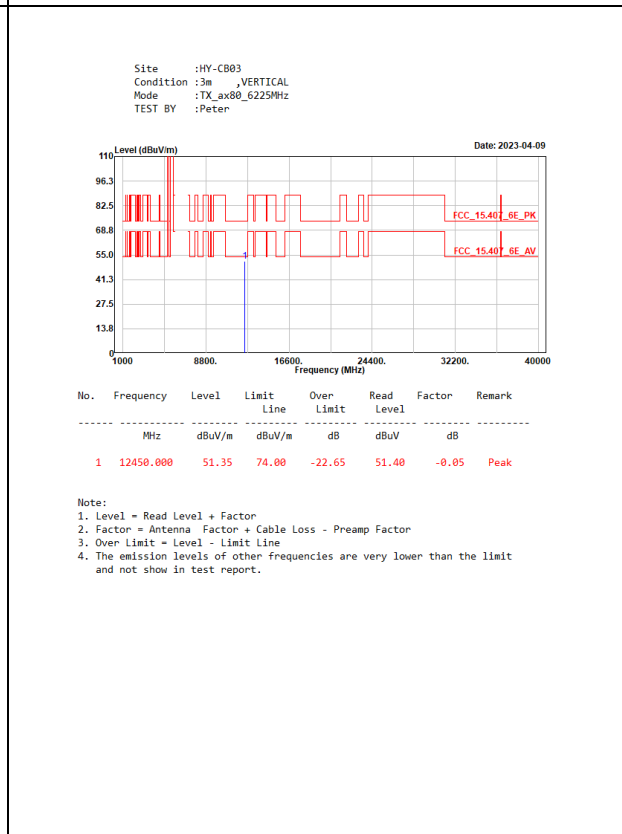
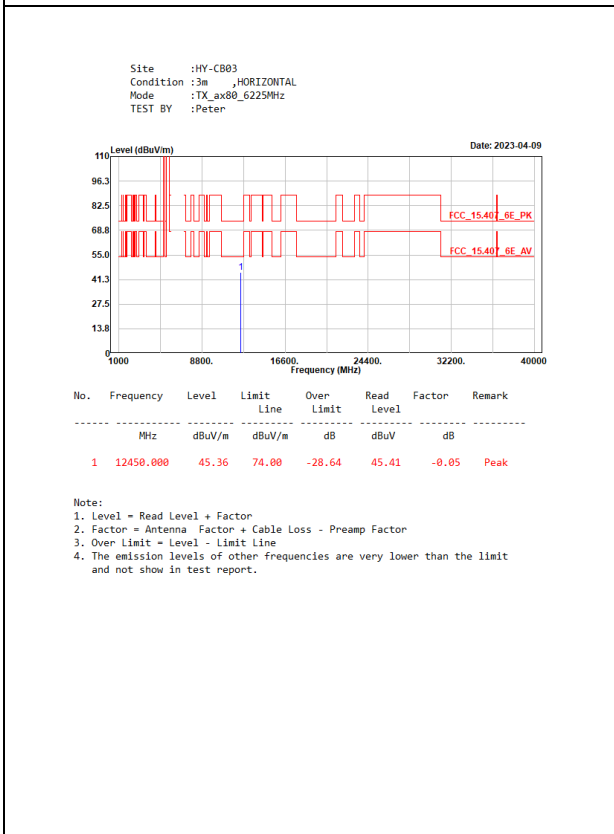
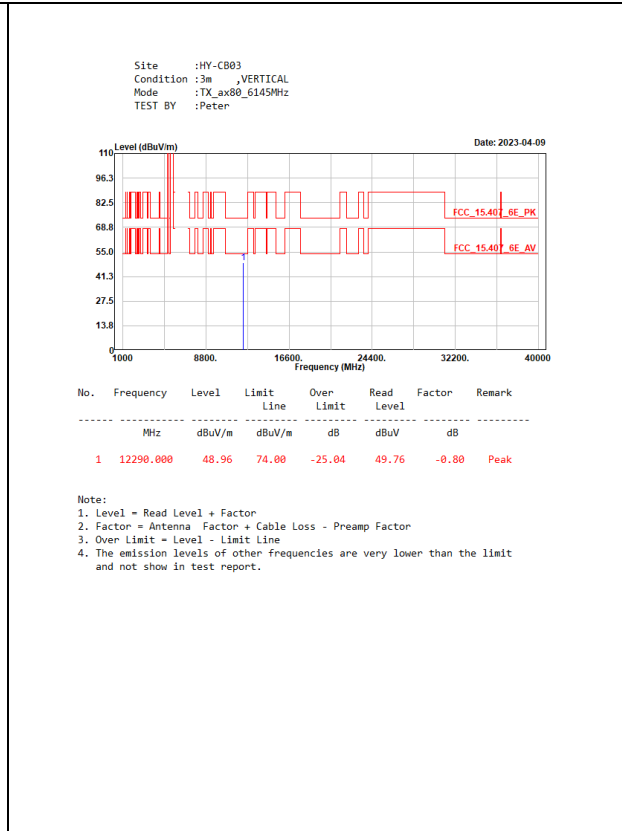
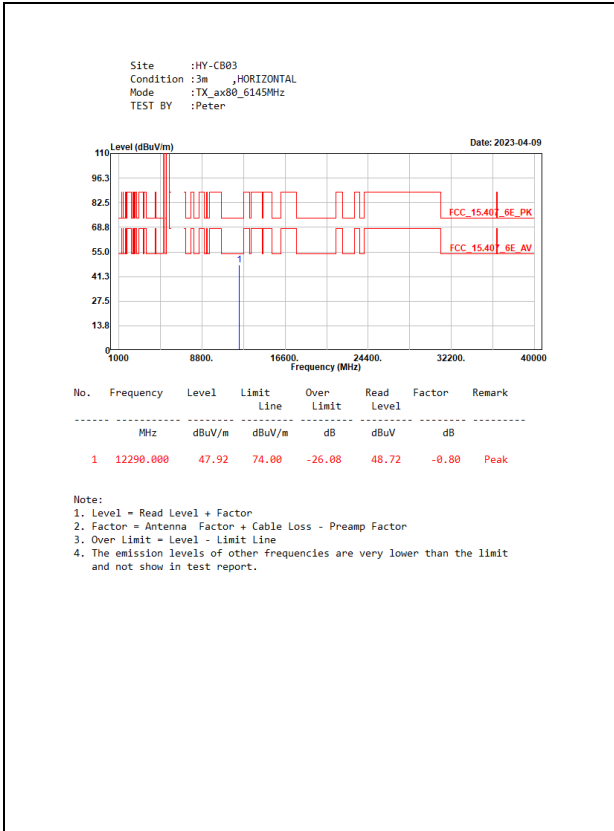


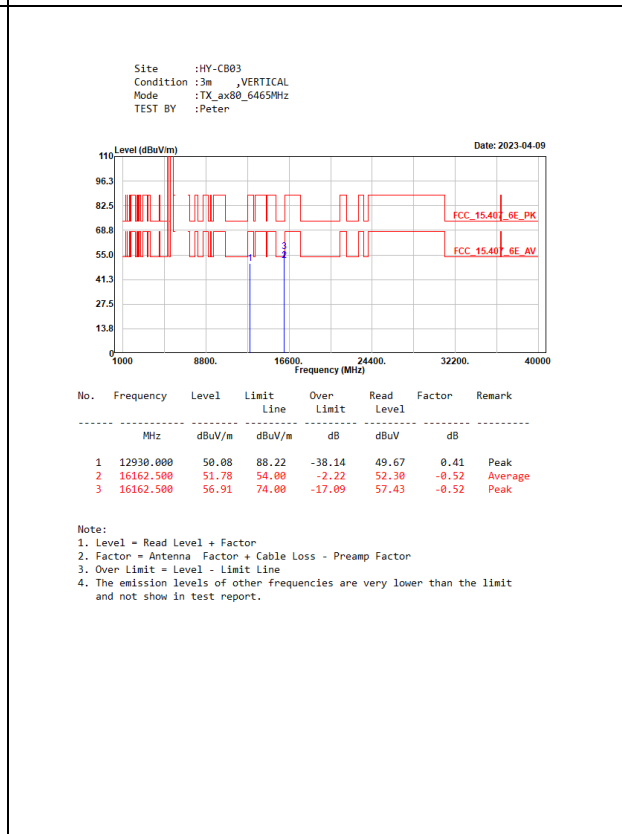
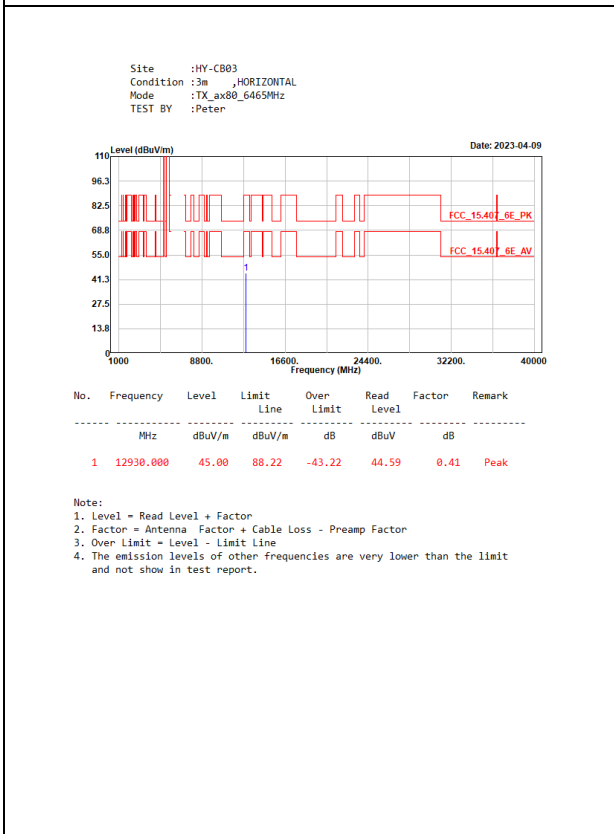
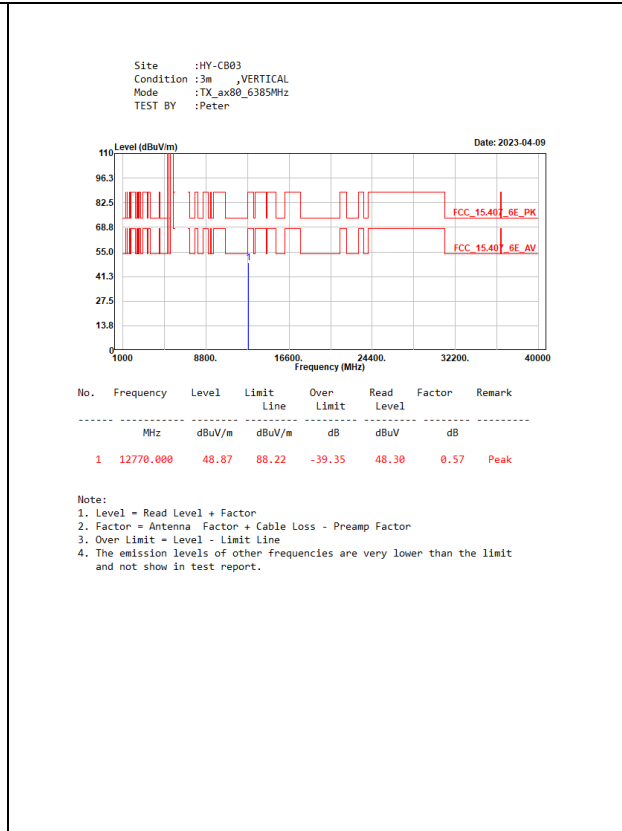
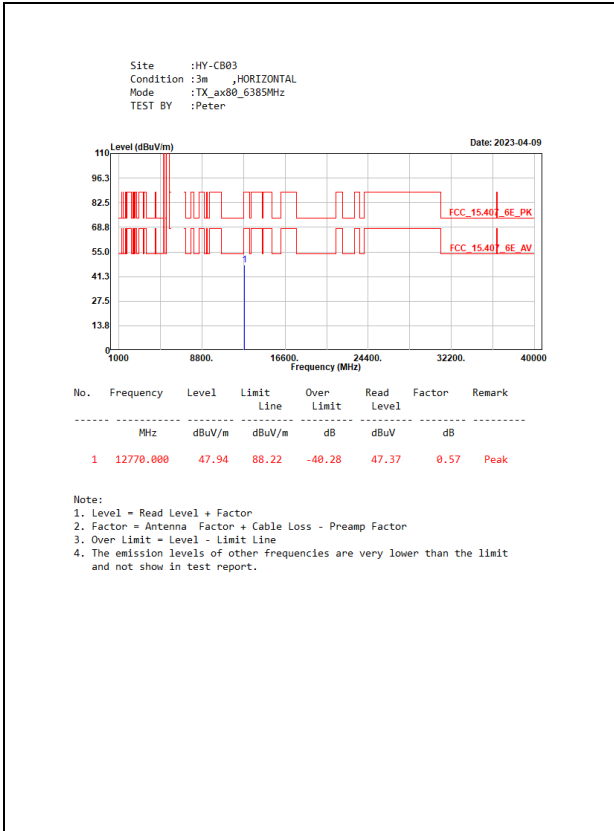


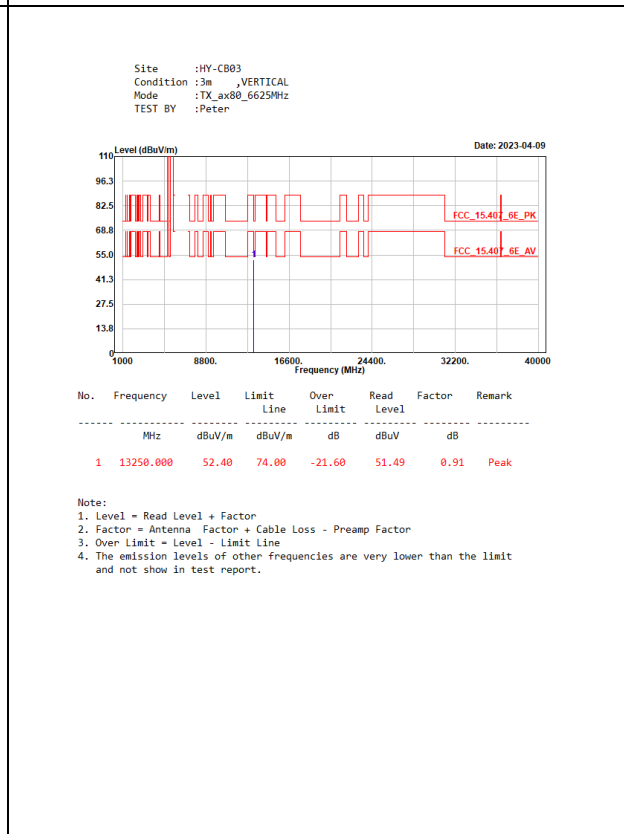
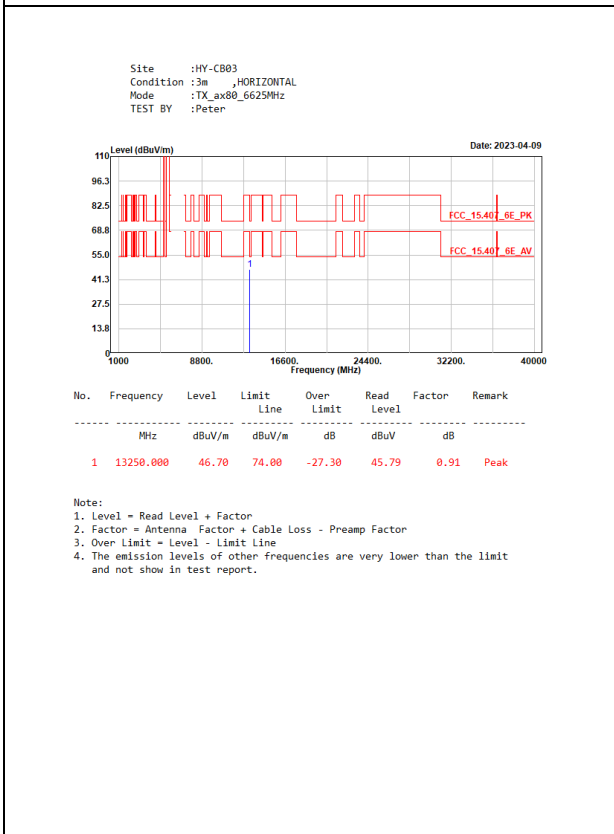
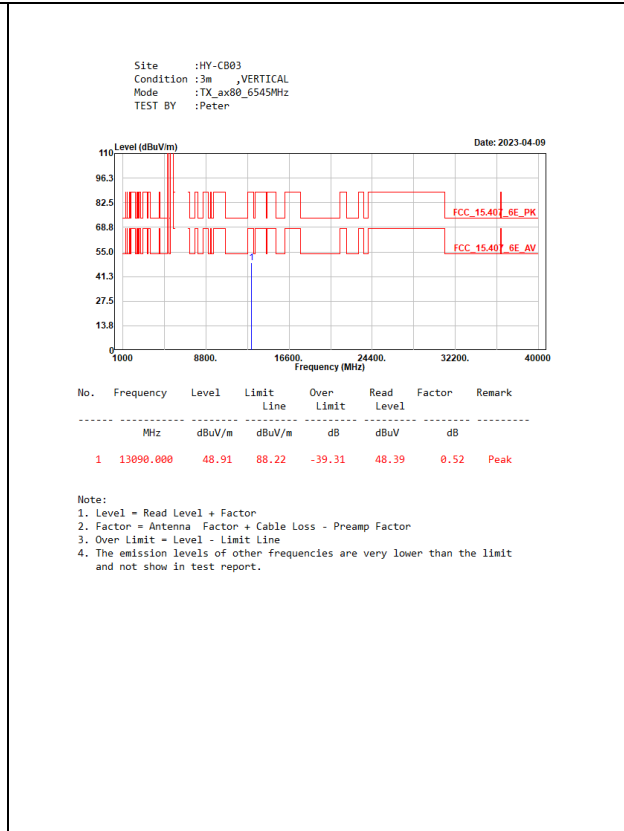
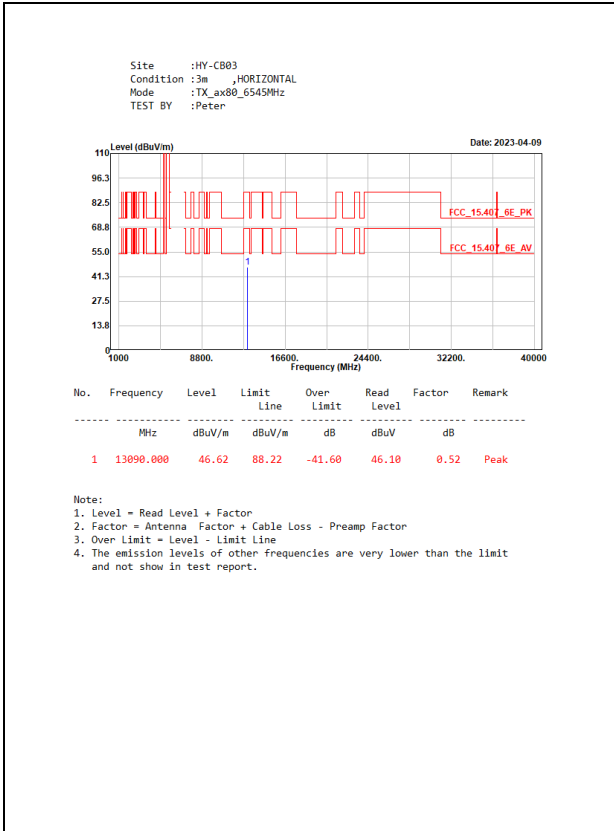


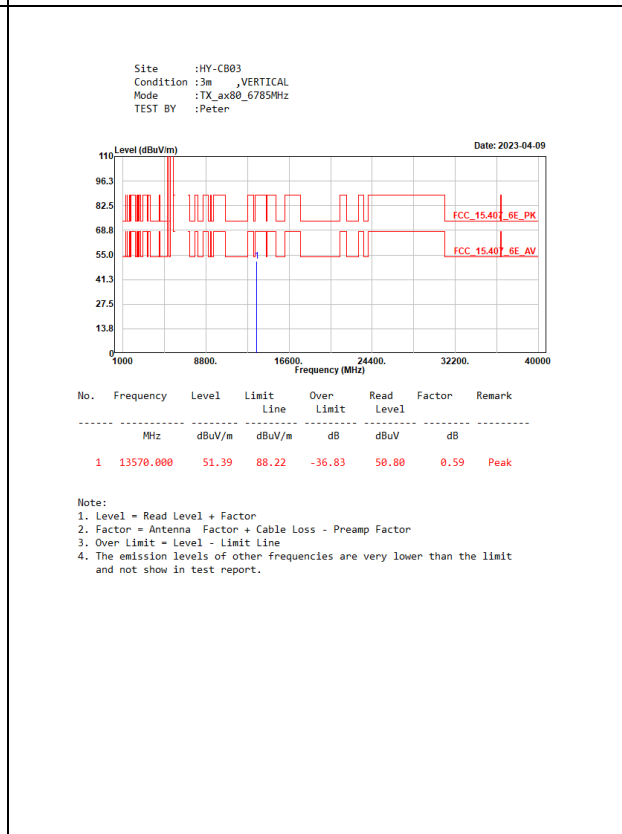
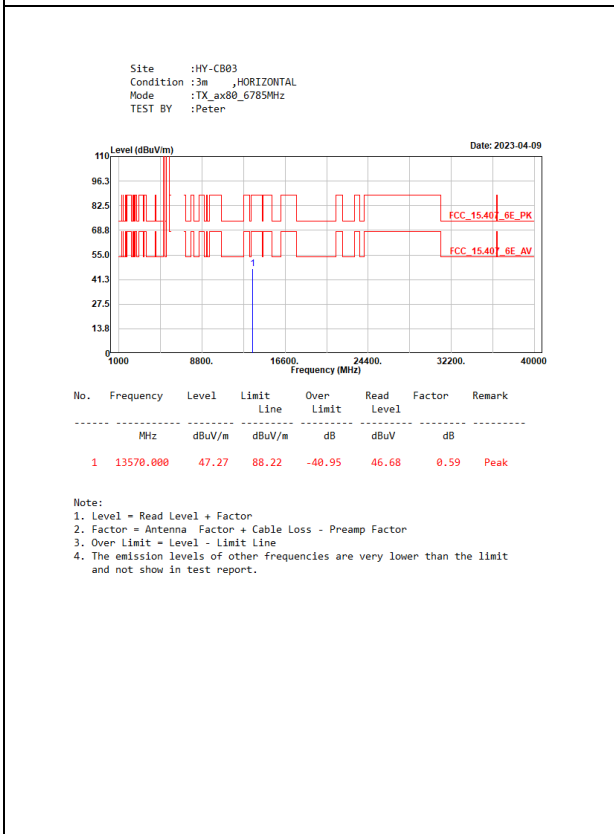
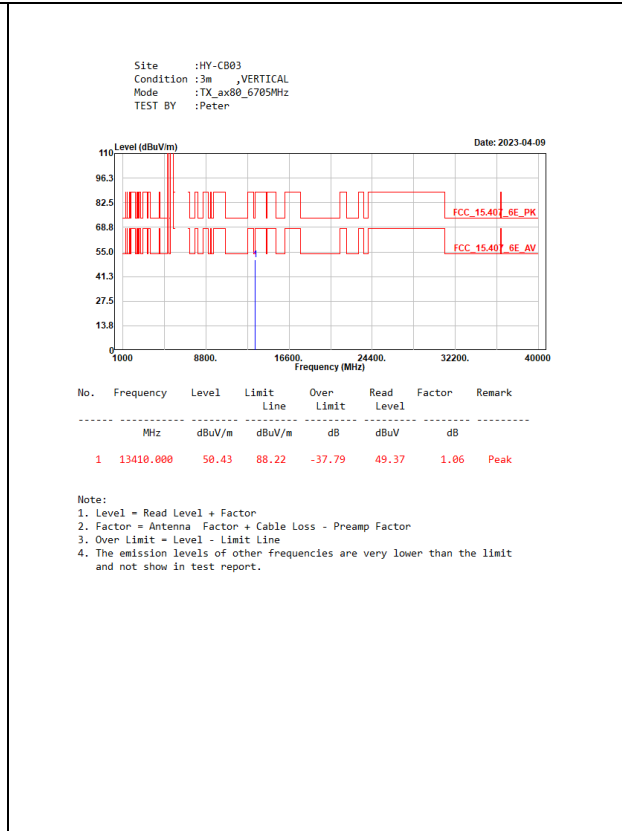
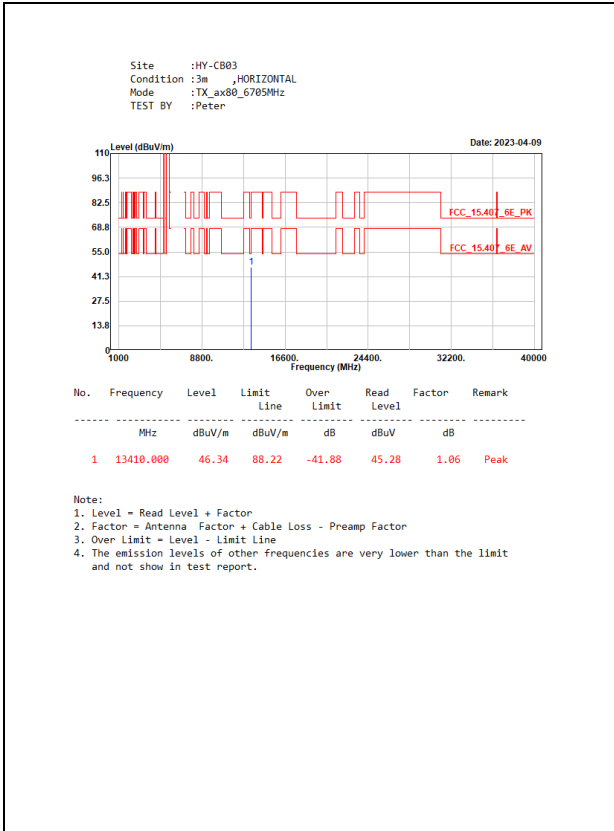


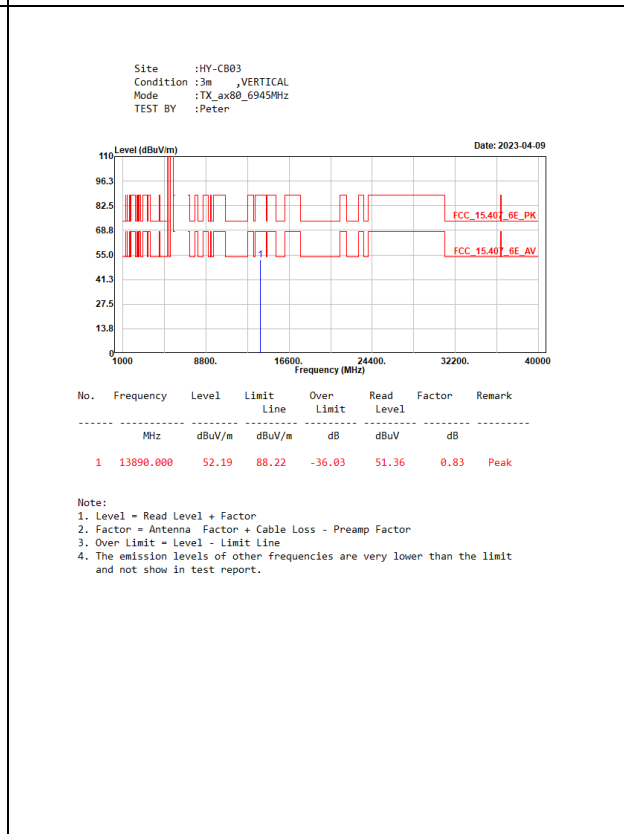
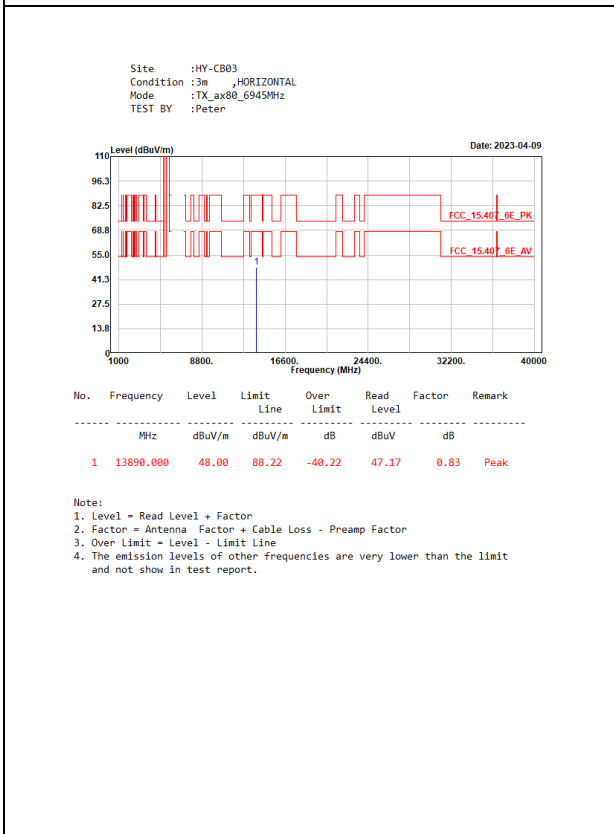
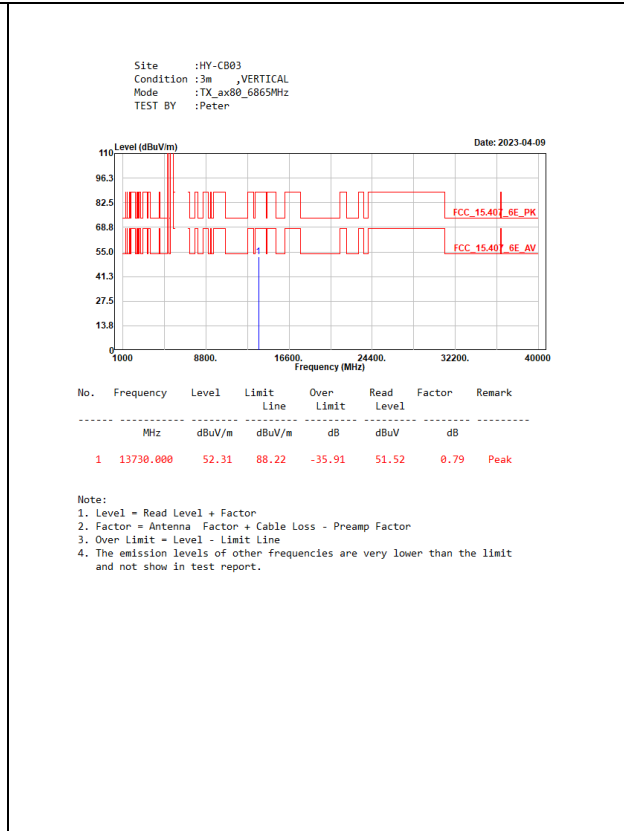
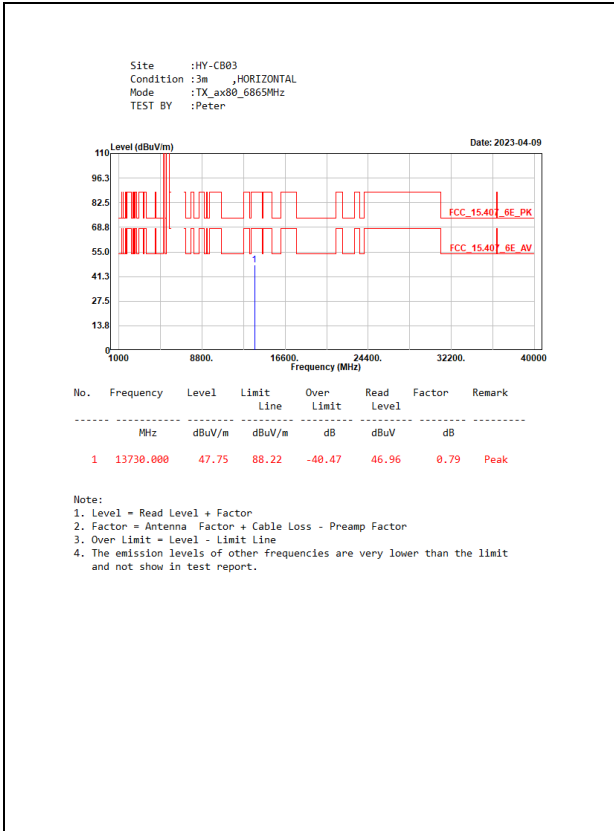


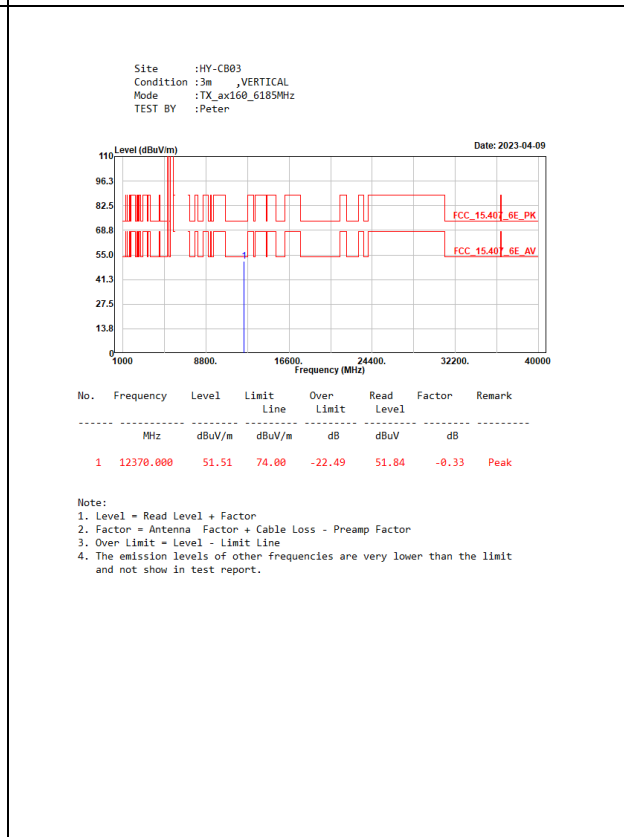
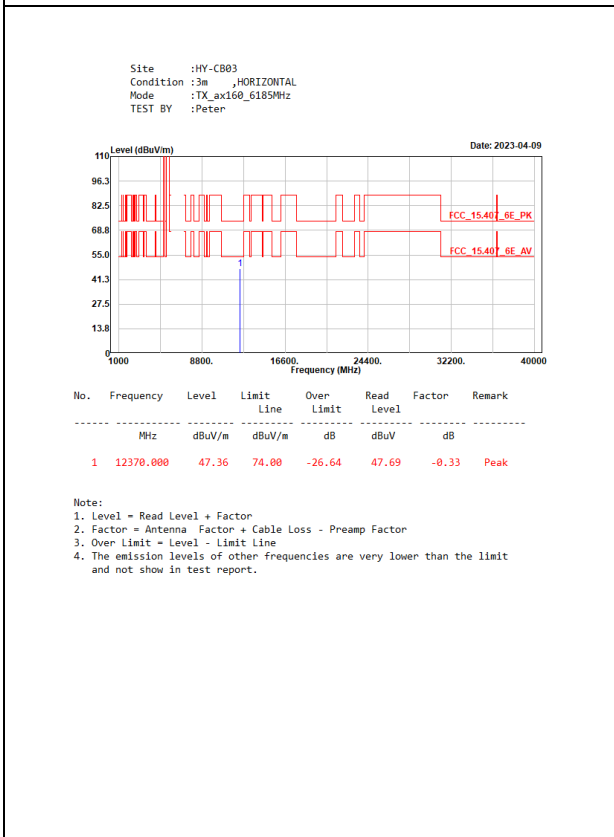
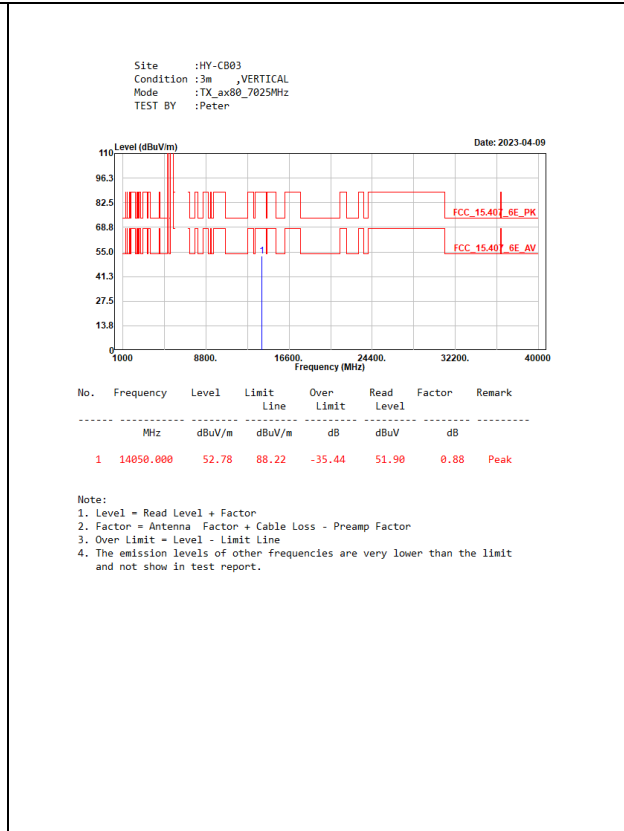
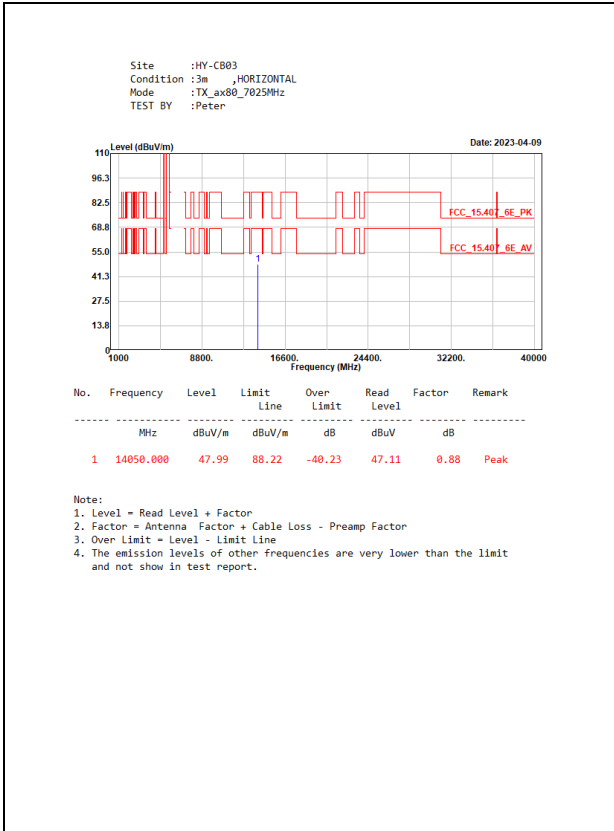


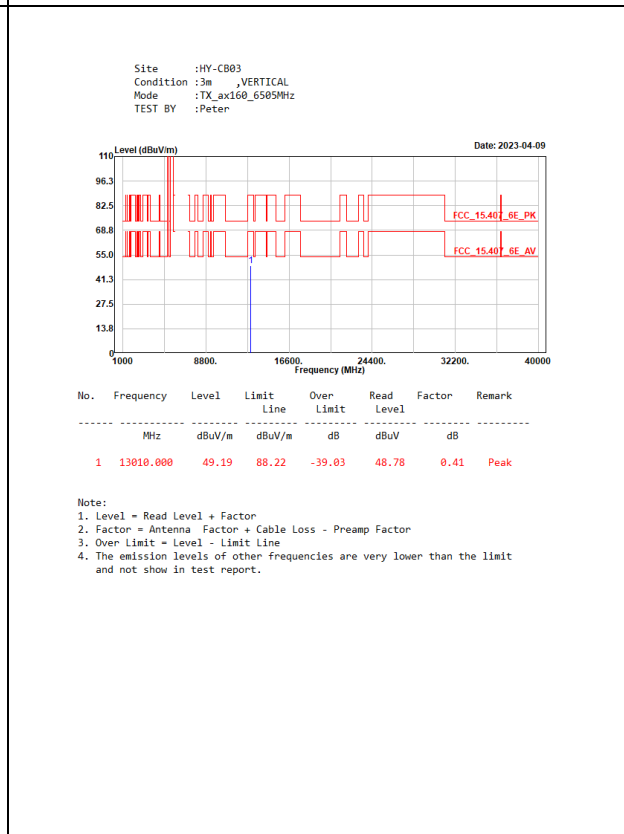
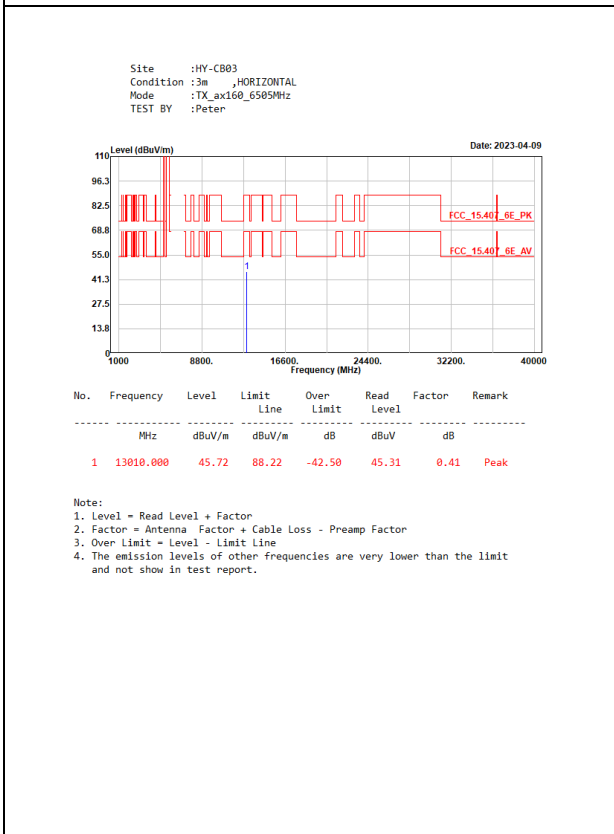
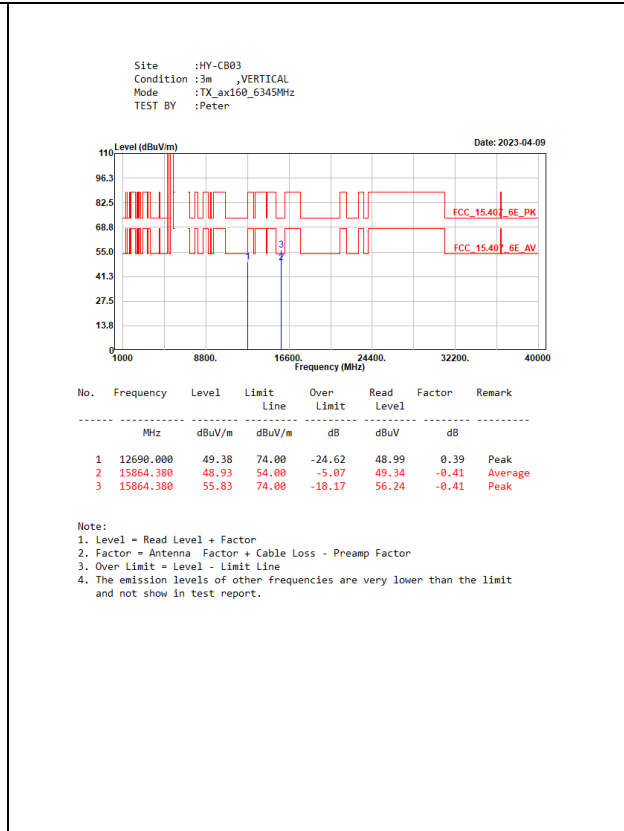
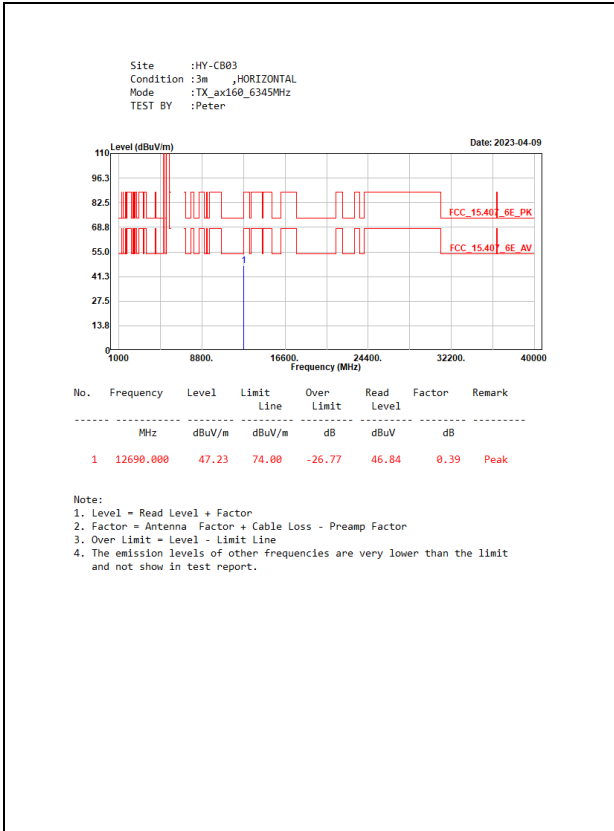


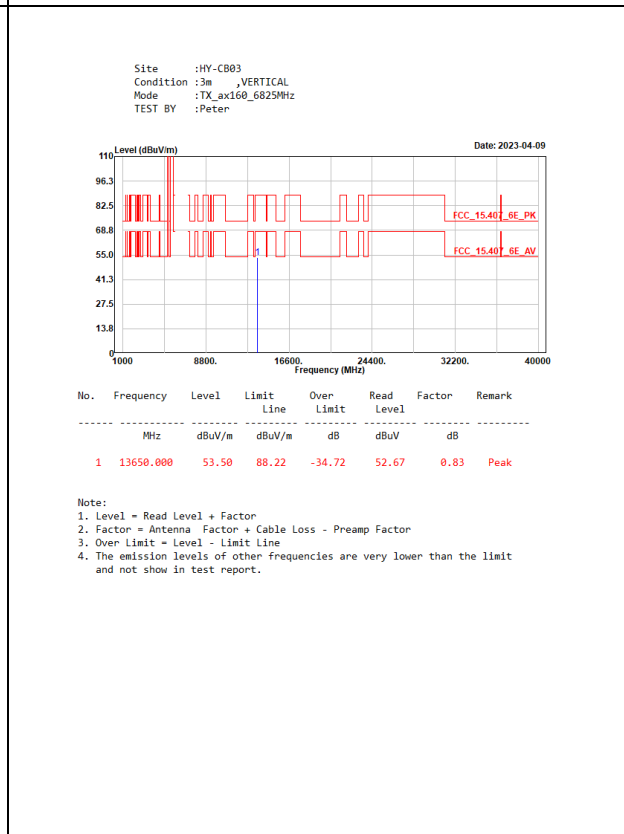
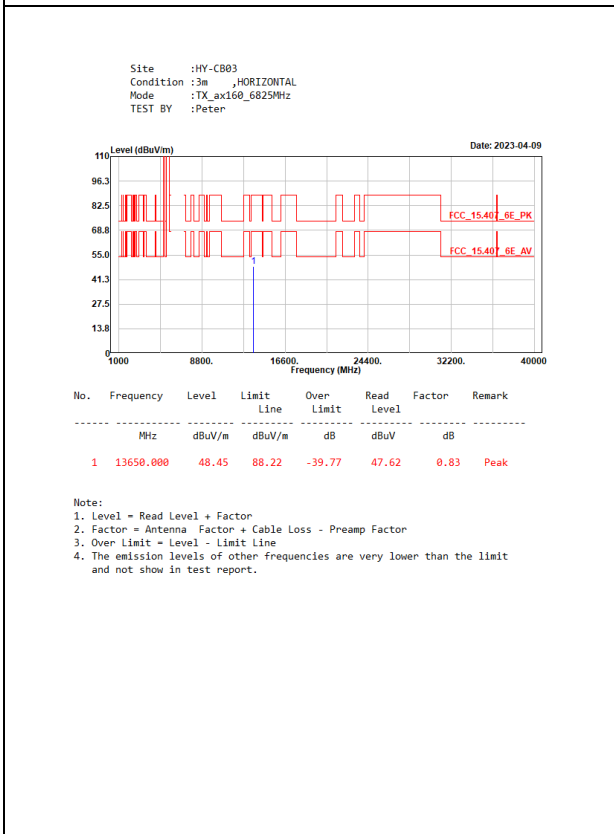
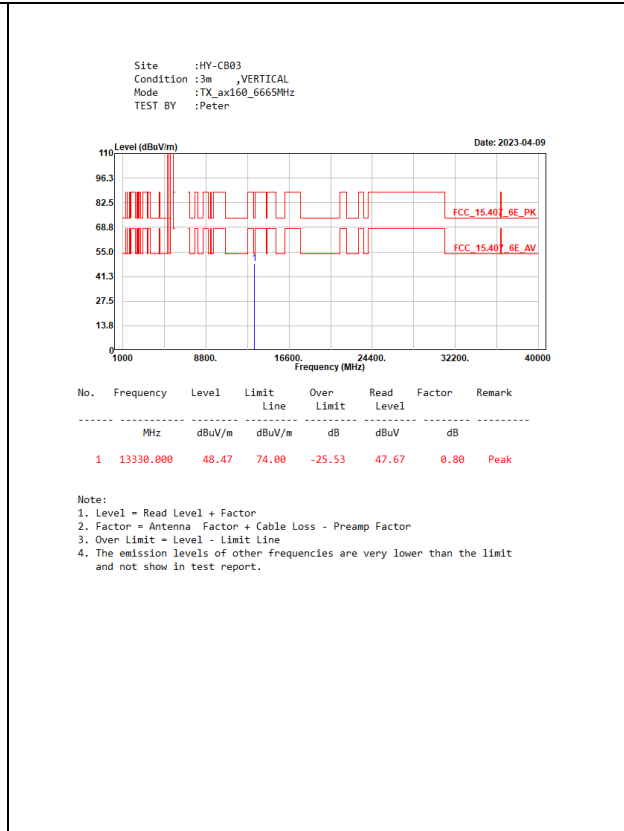
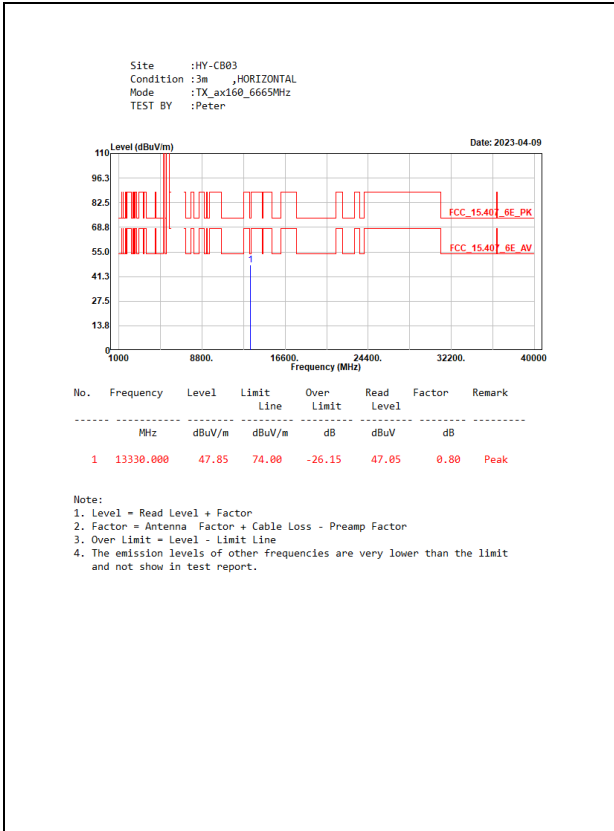


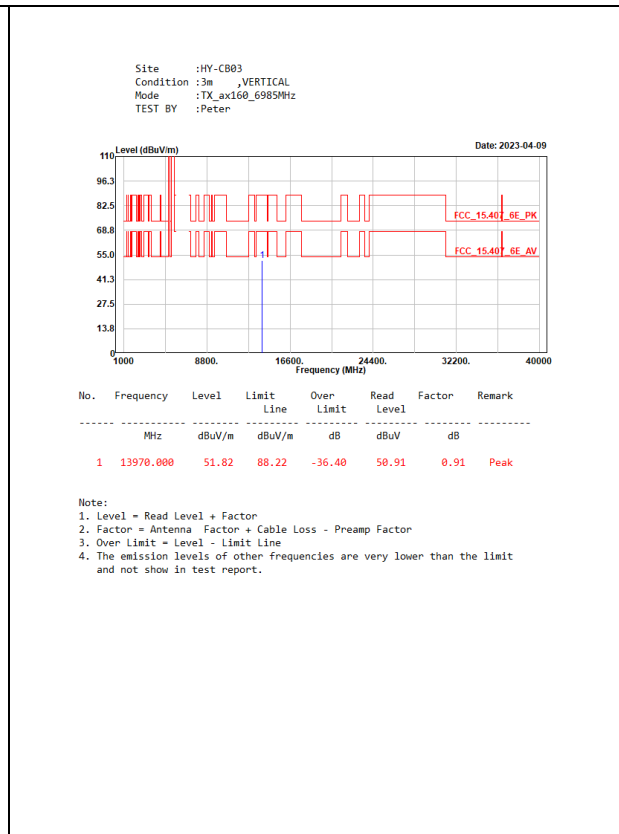




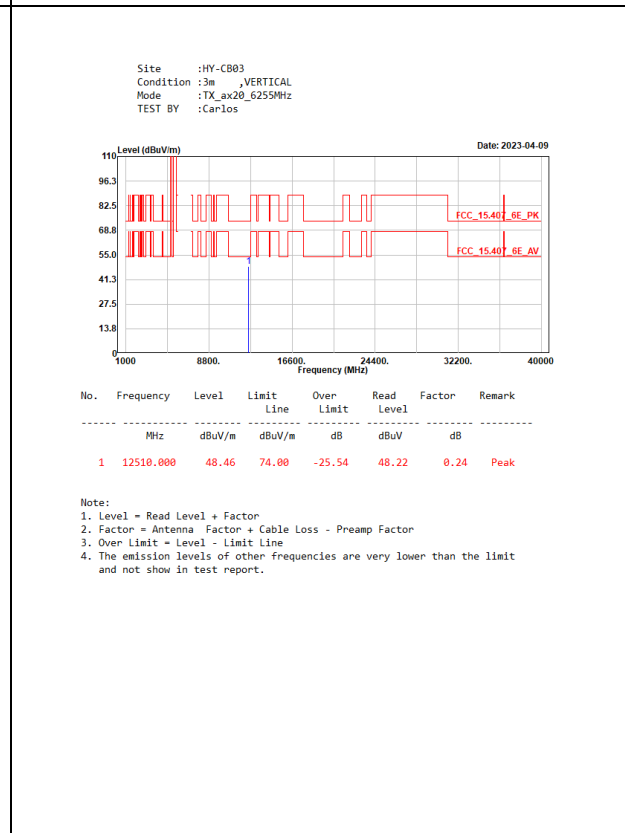
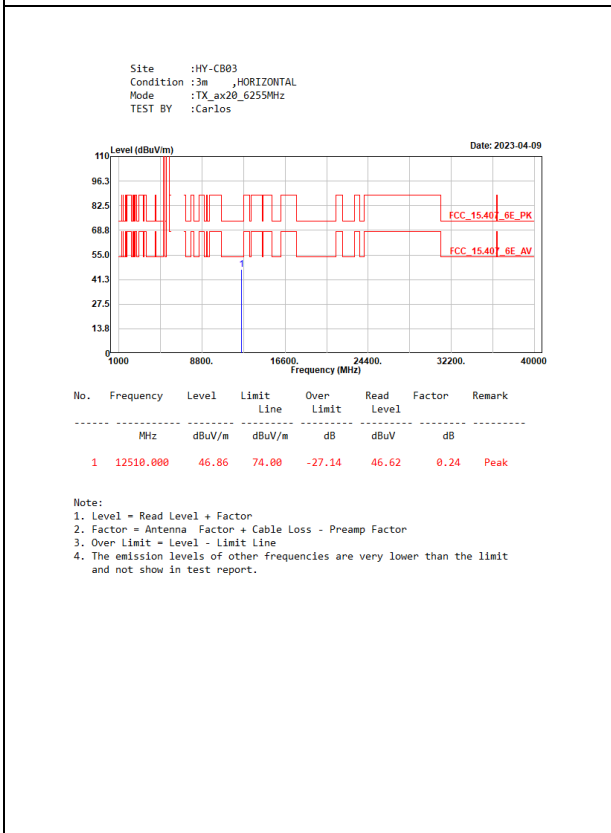
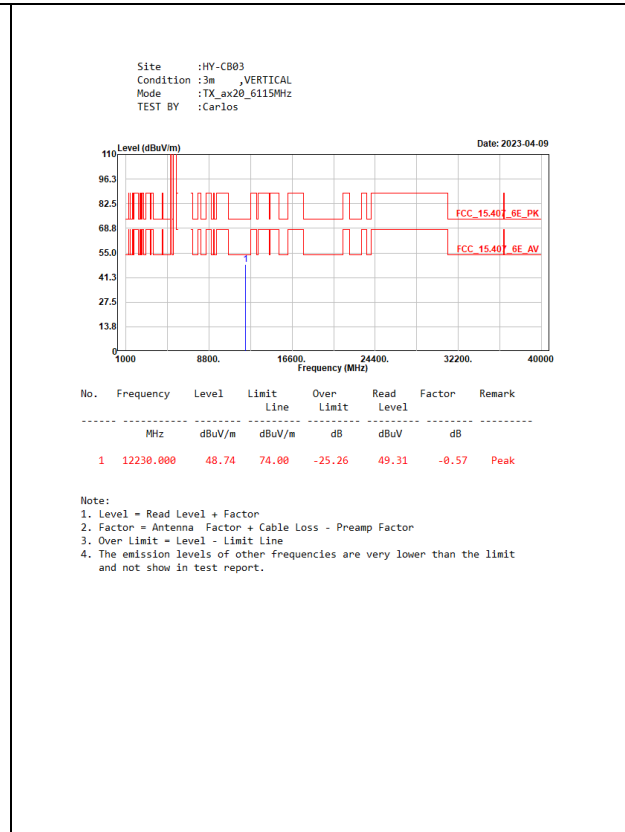
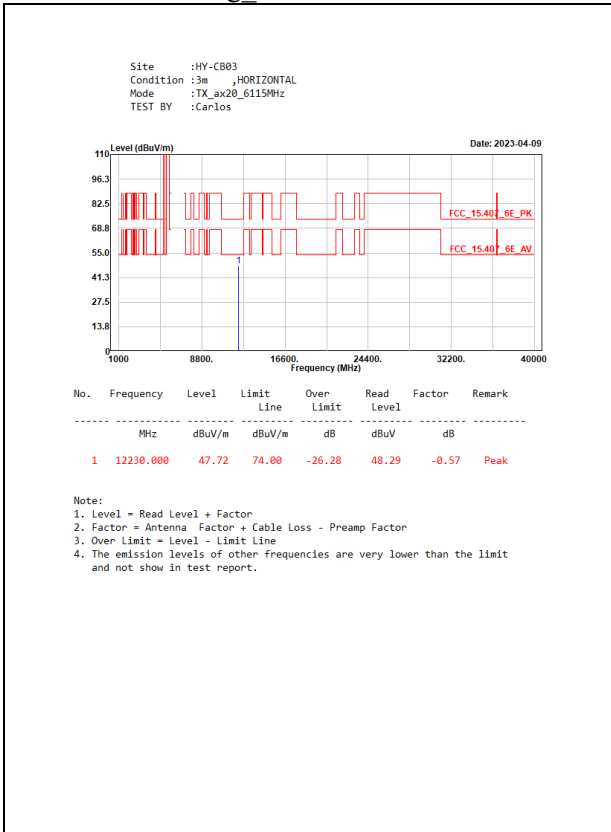


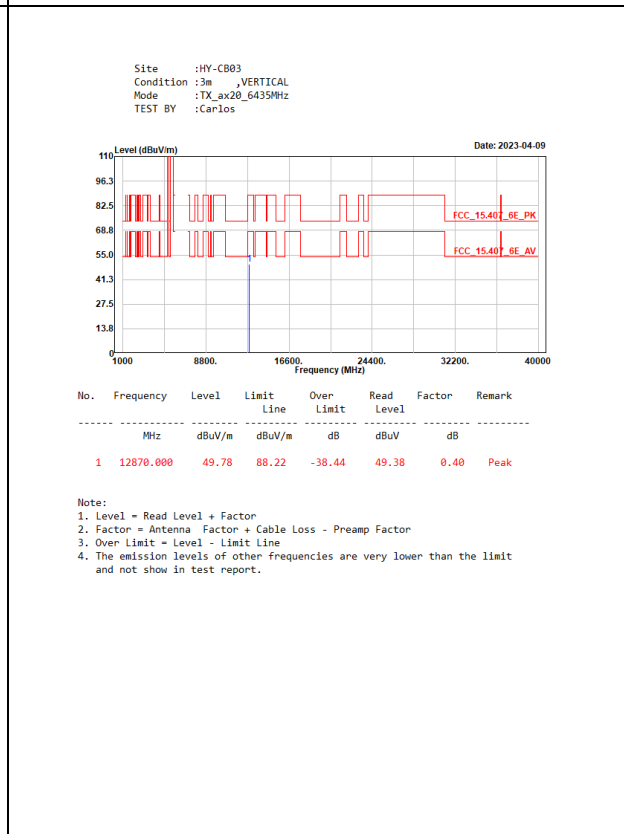
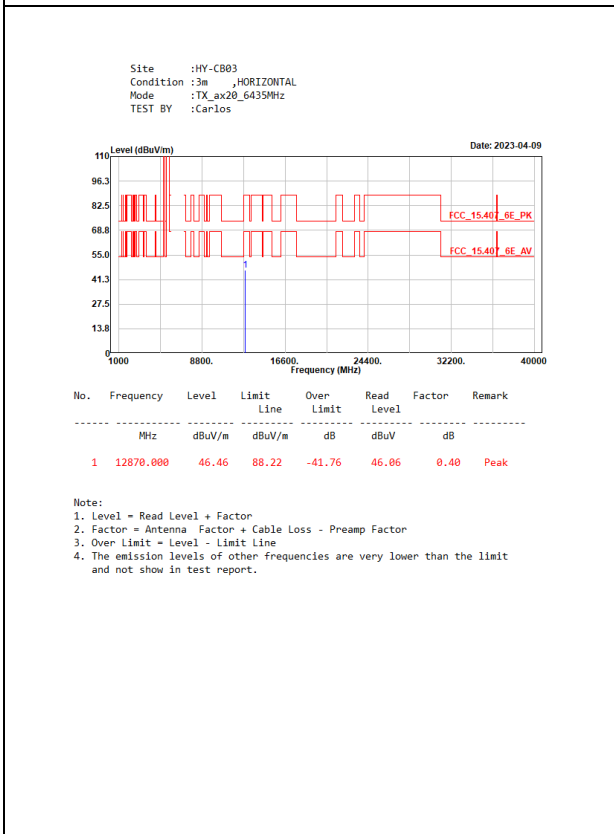
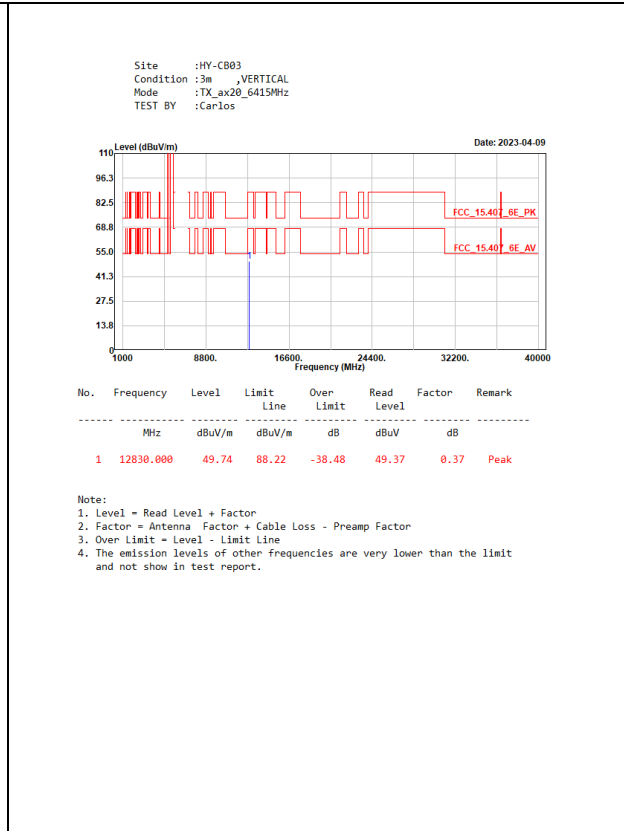
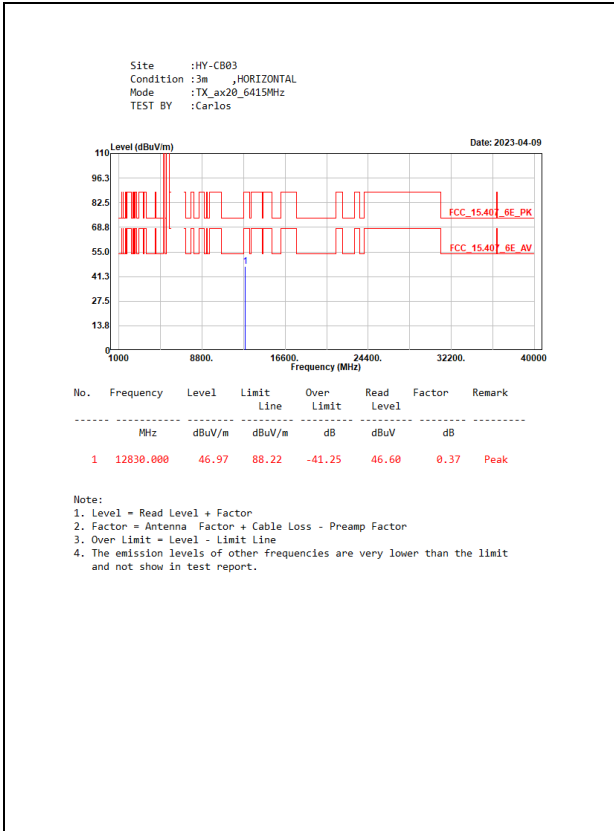


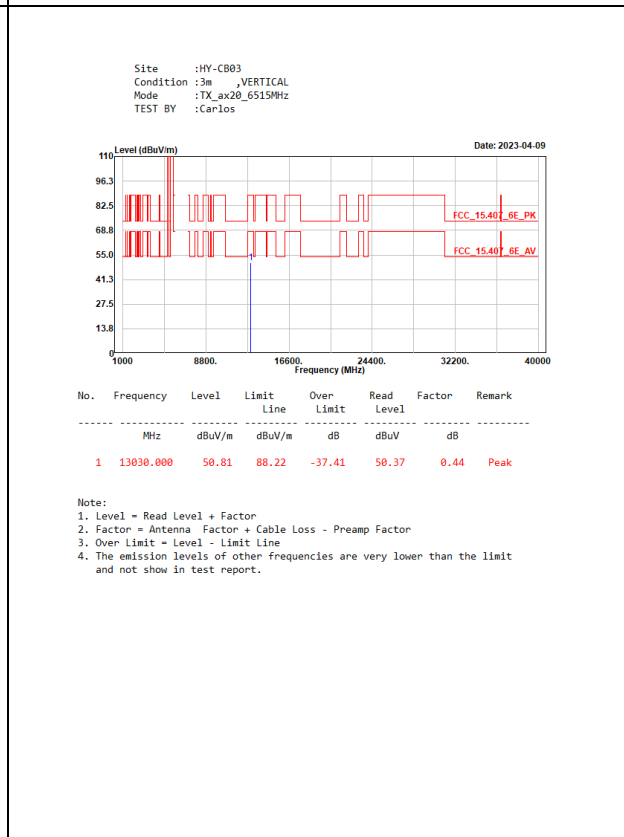
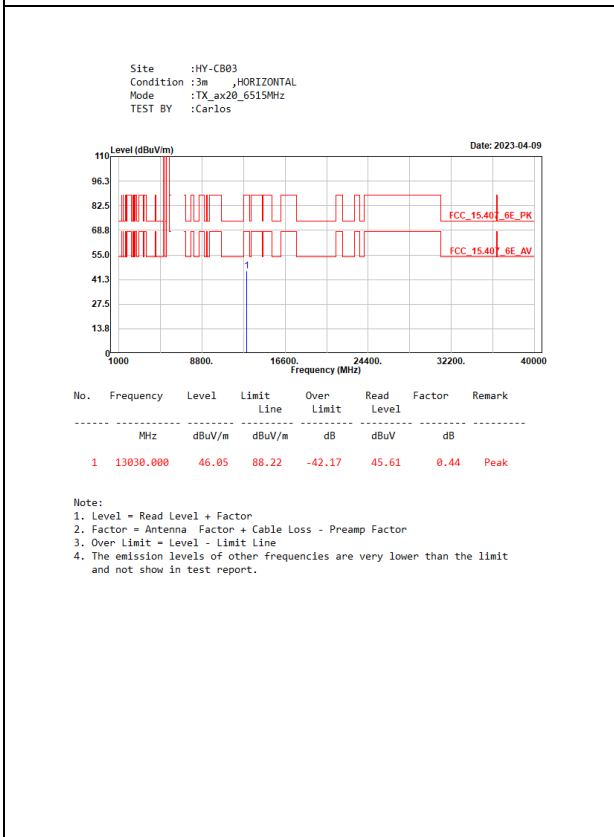
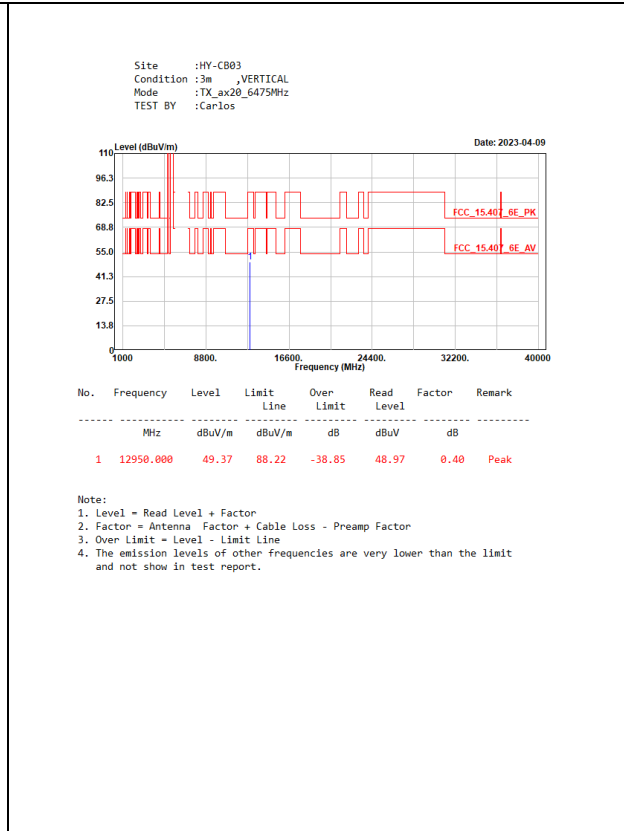
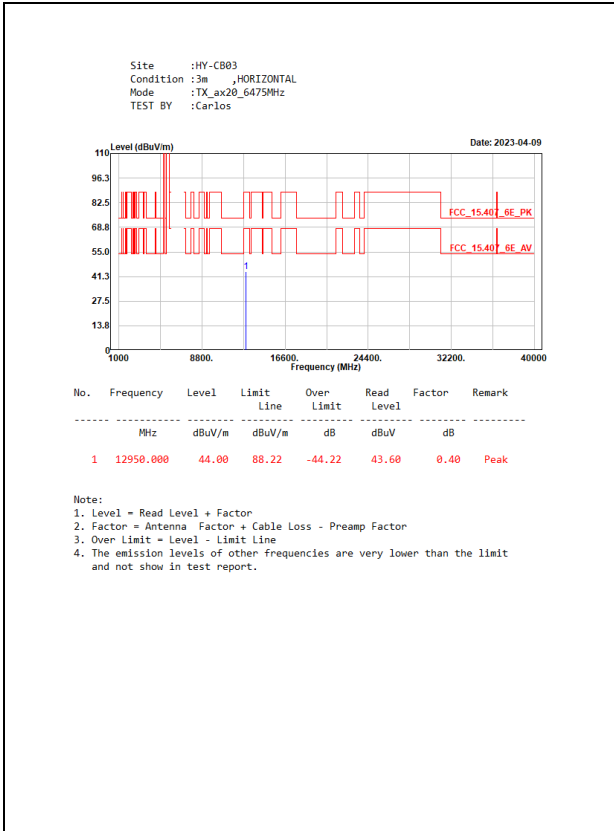


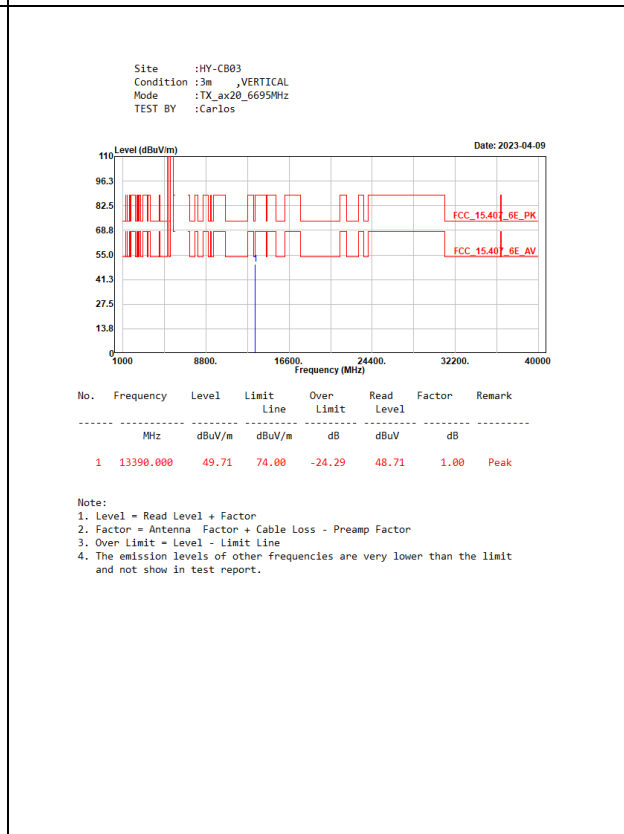
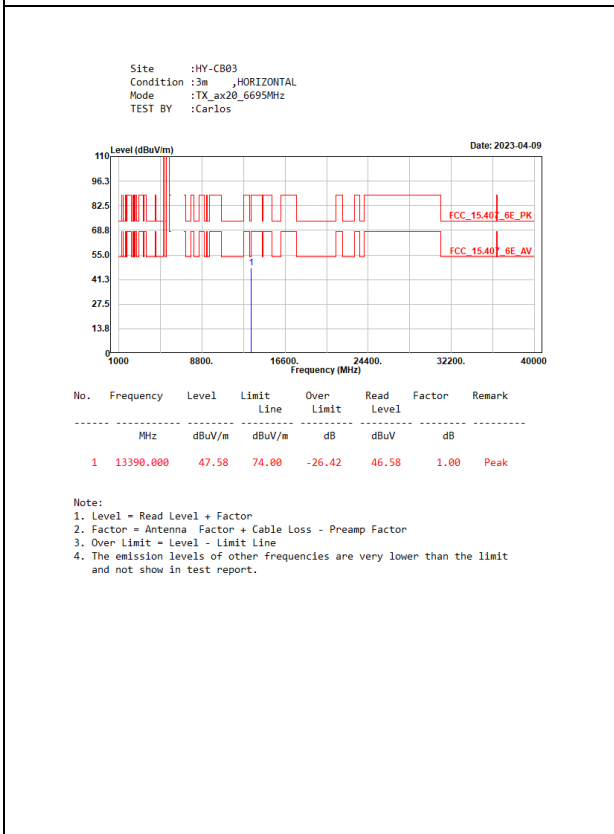
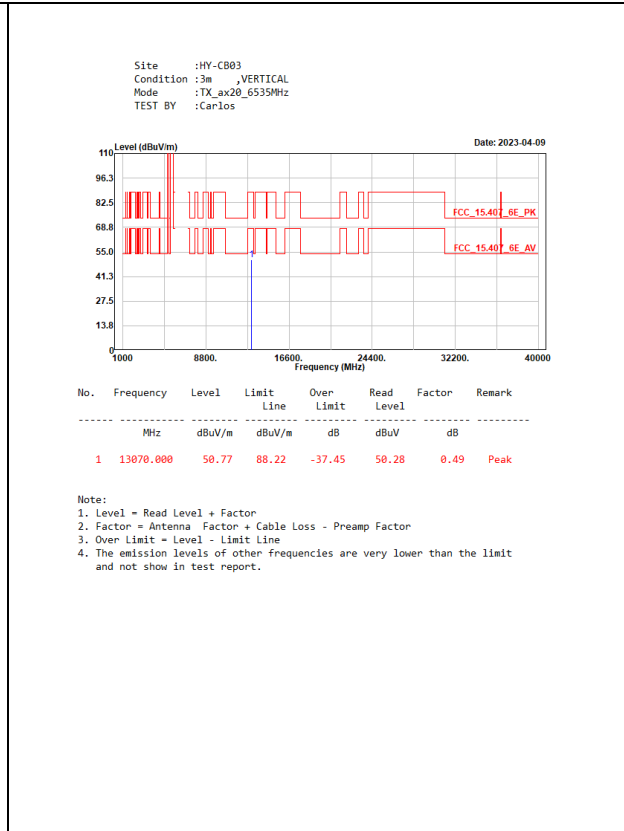
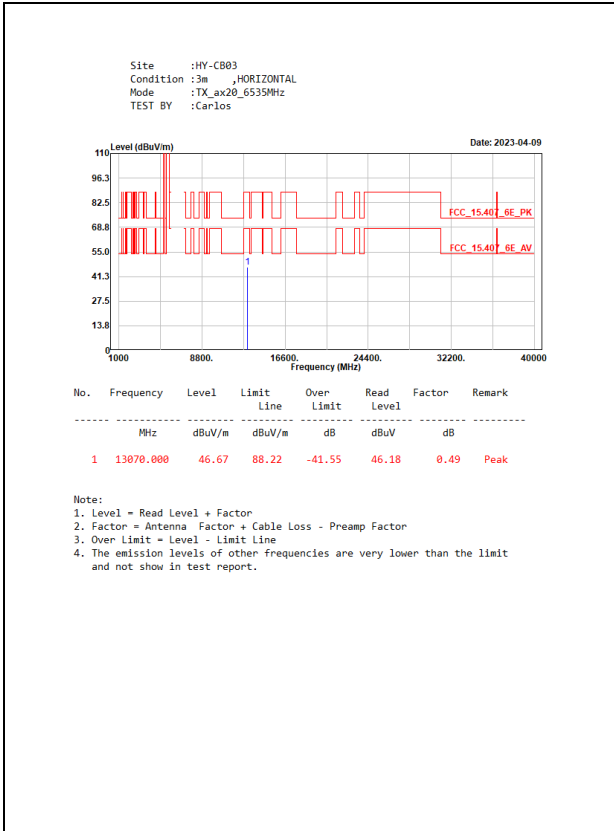


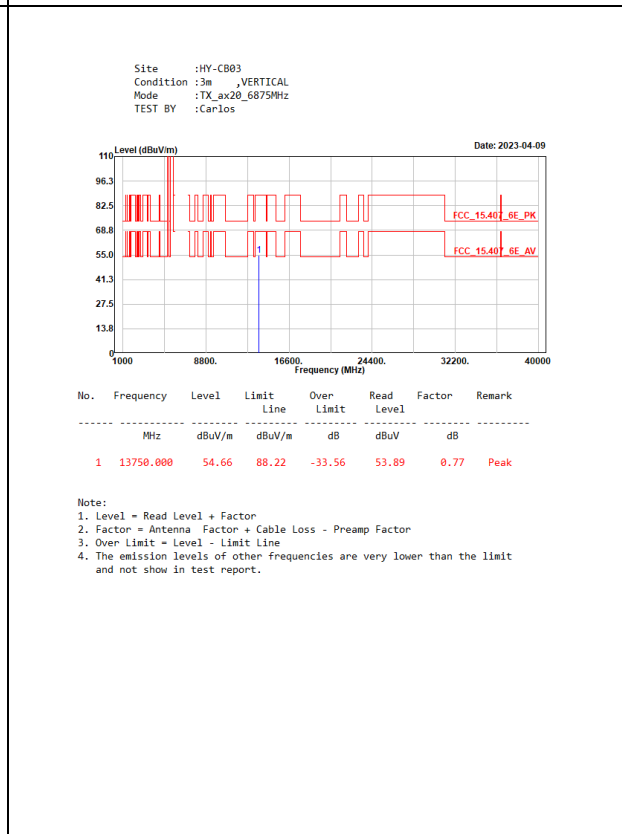
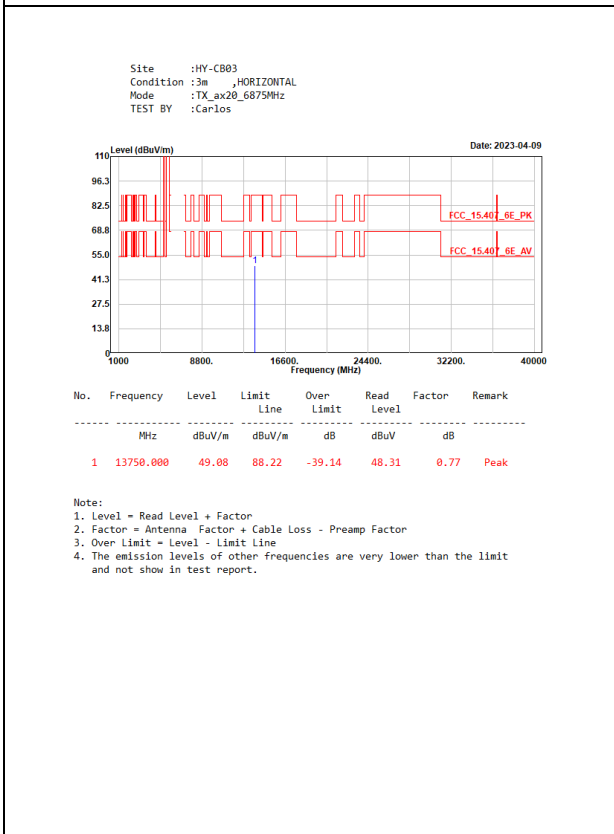
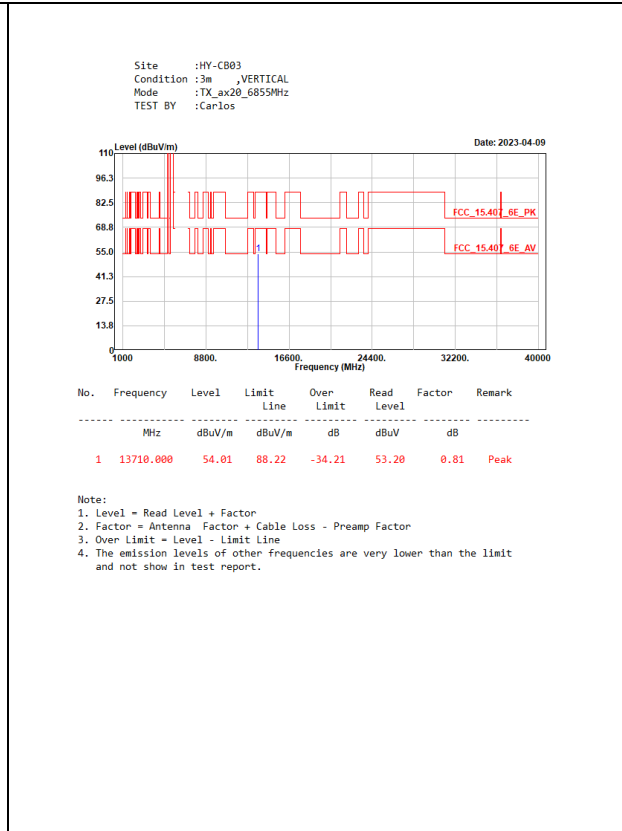
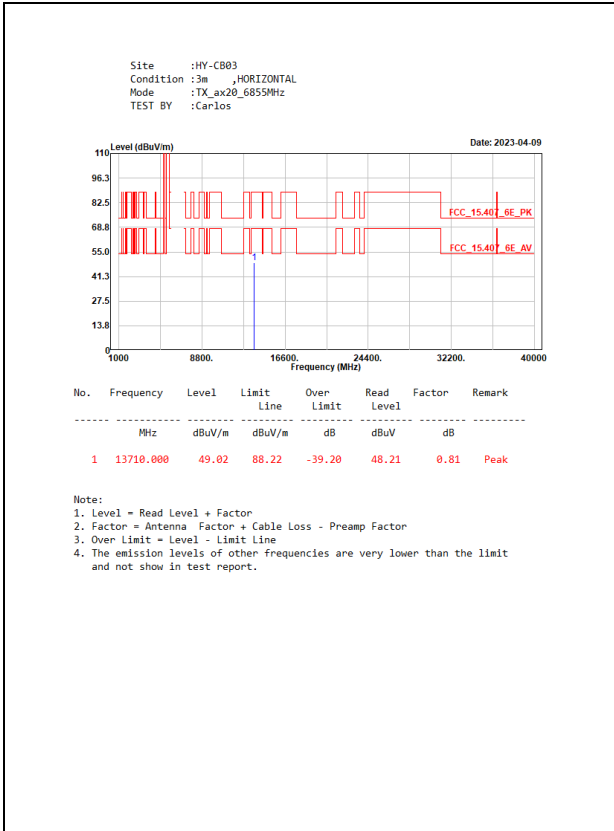
Non-Beamforming NSS-4

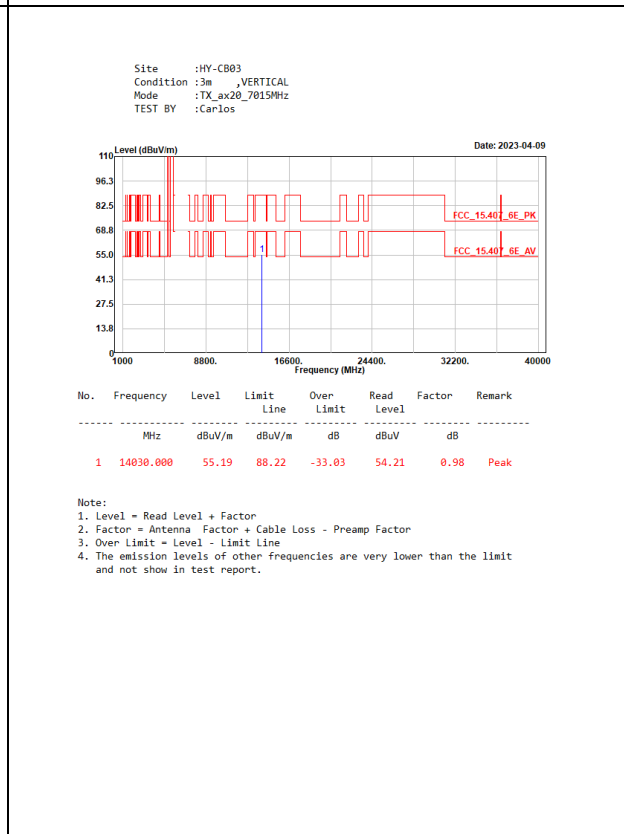
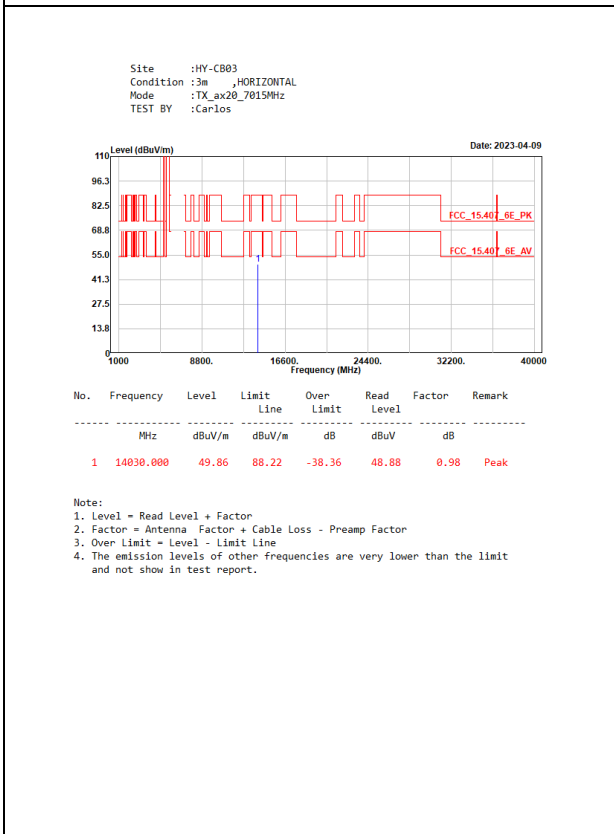
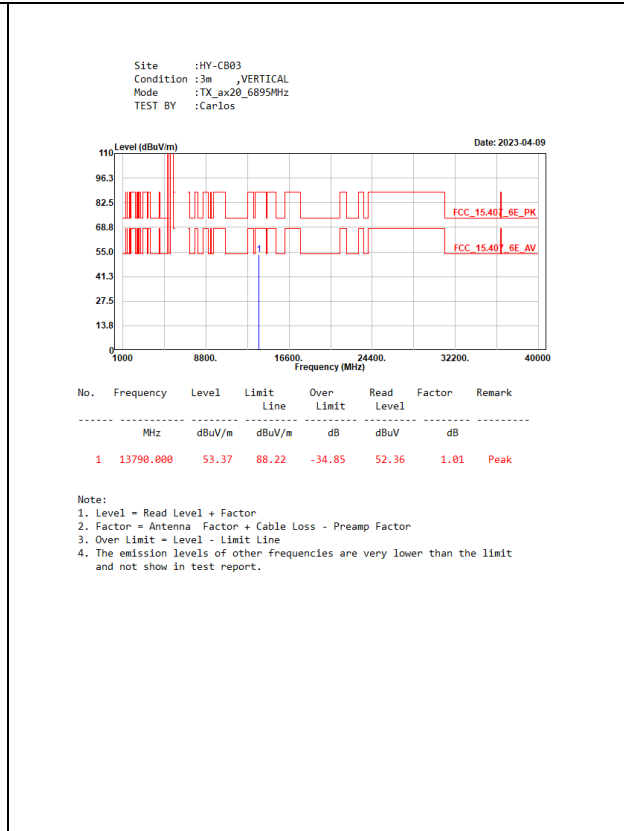
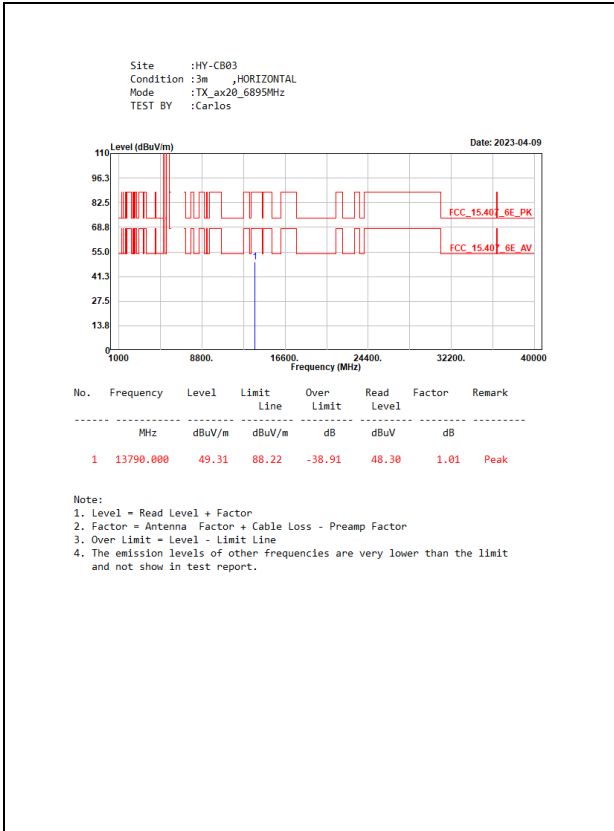


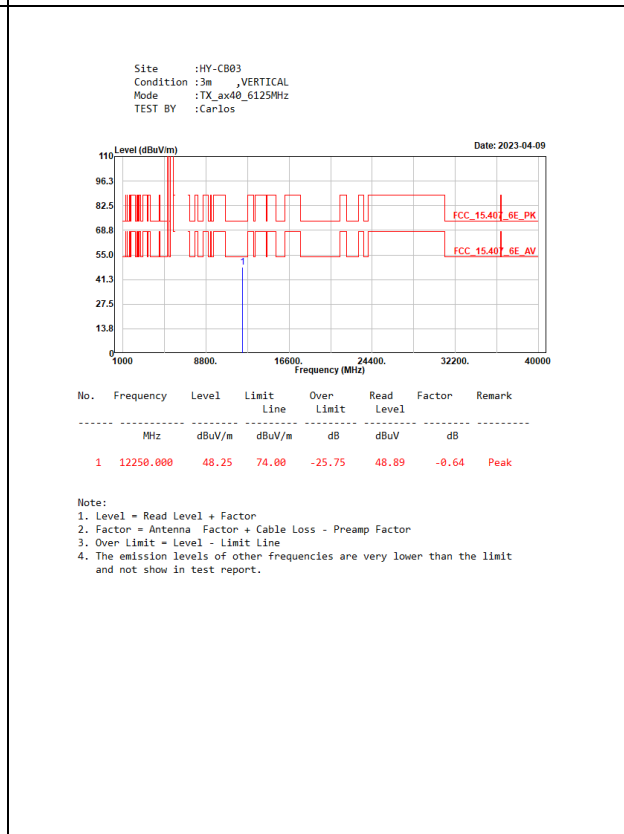
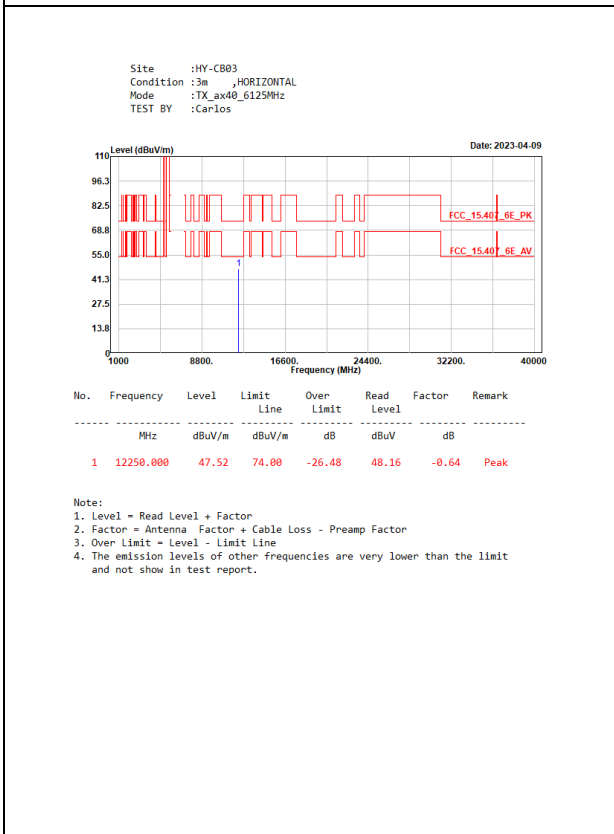
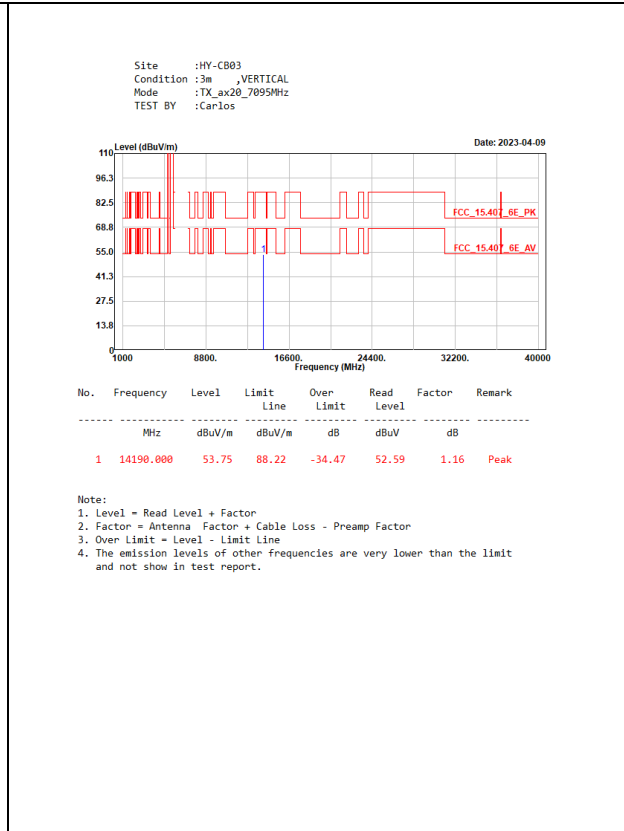
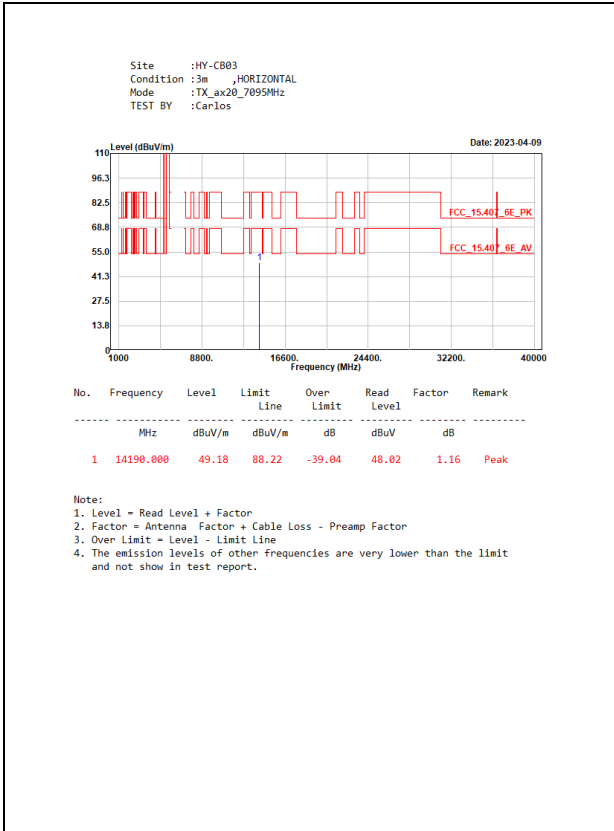


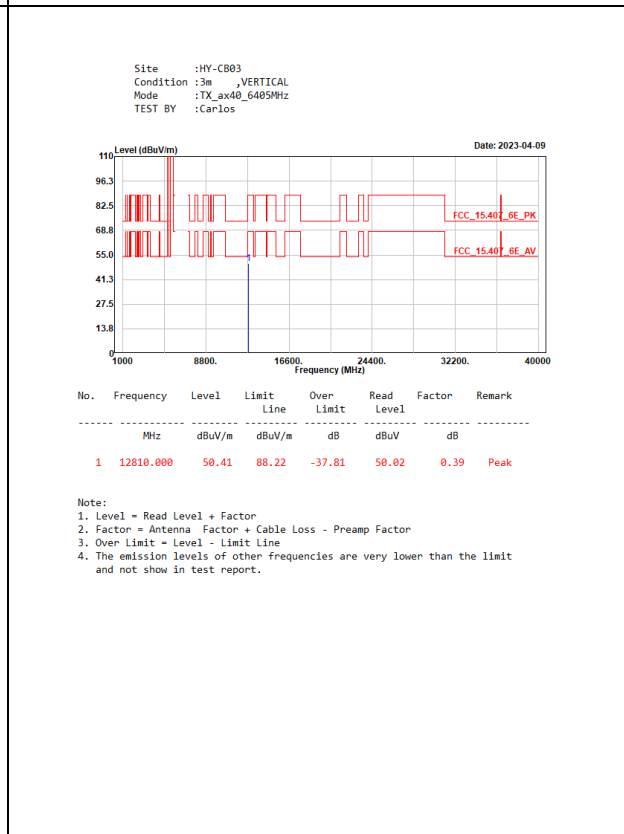
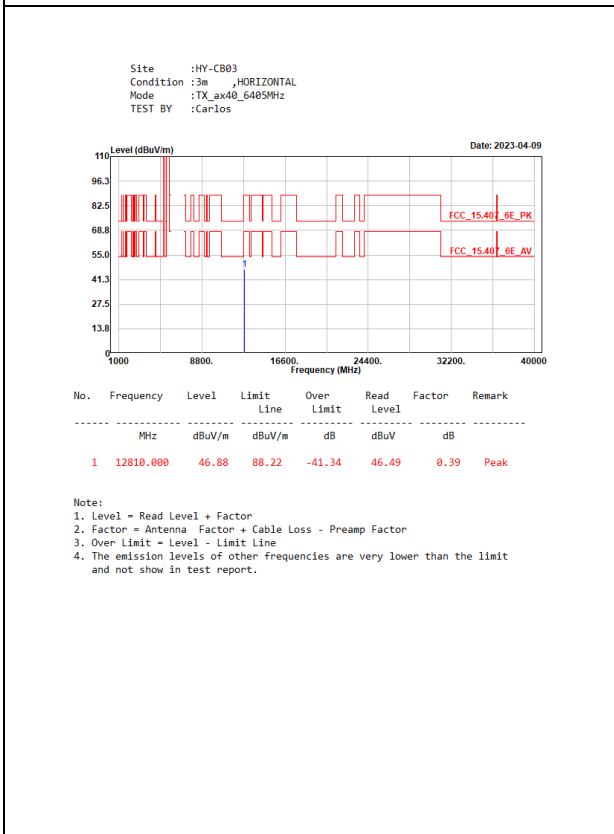
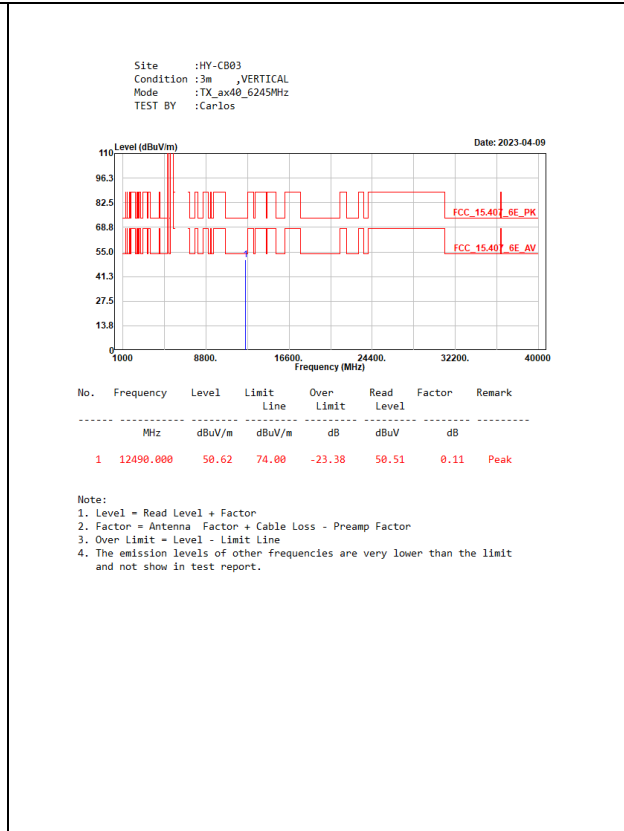
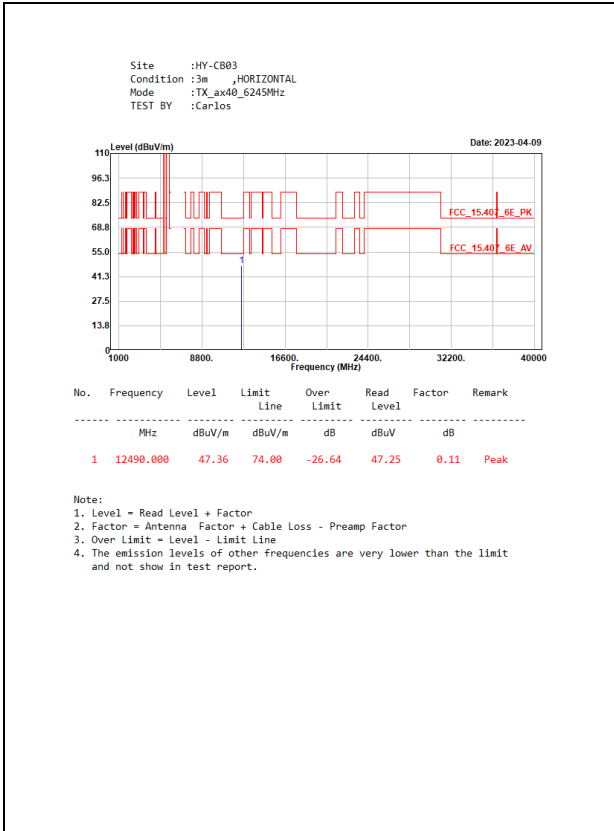


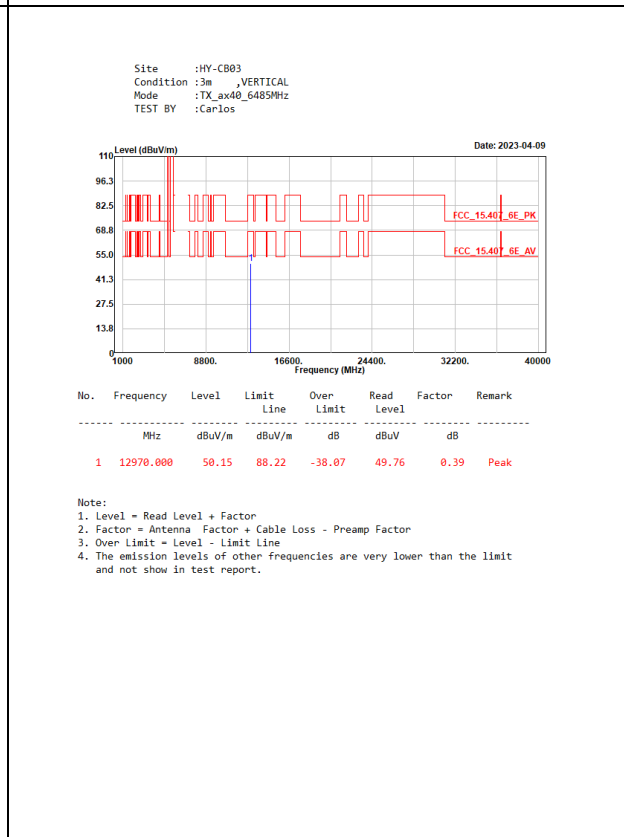
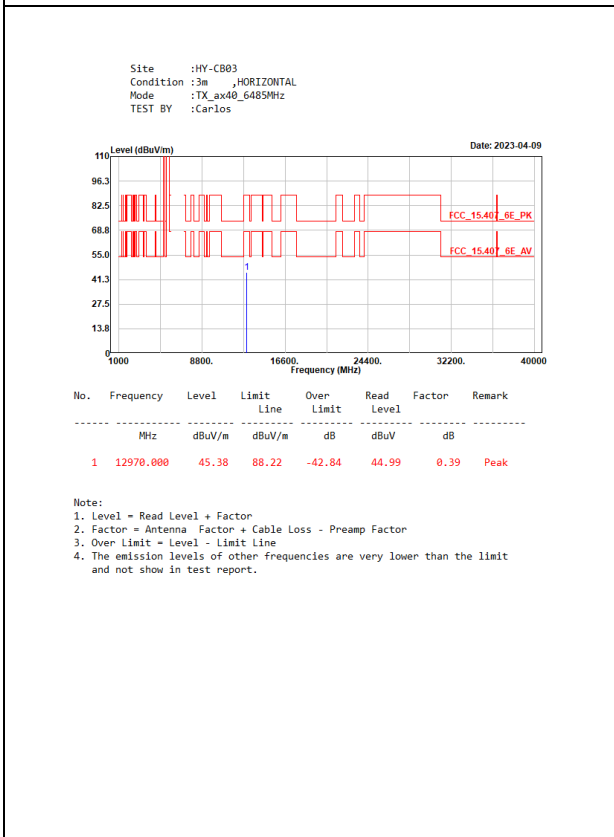
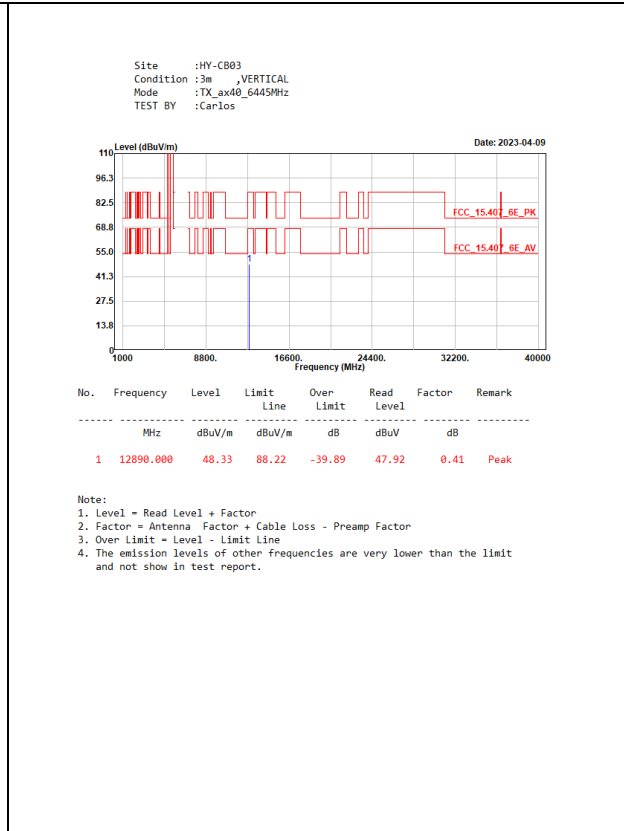
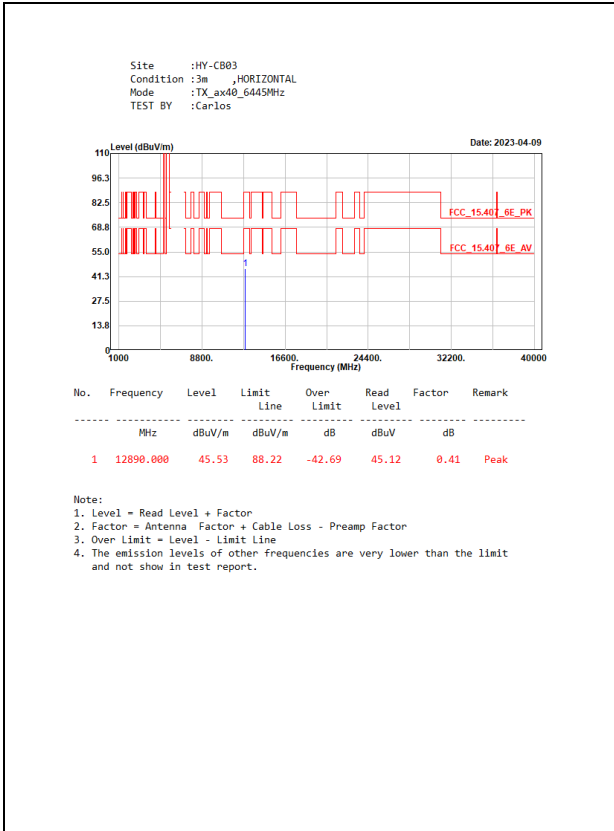


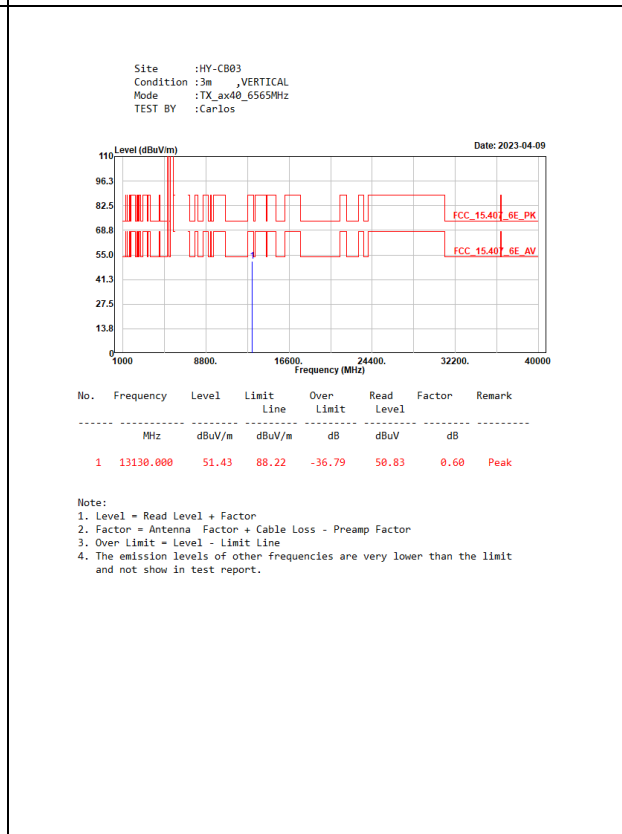
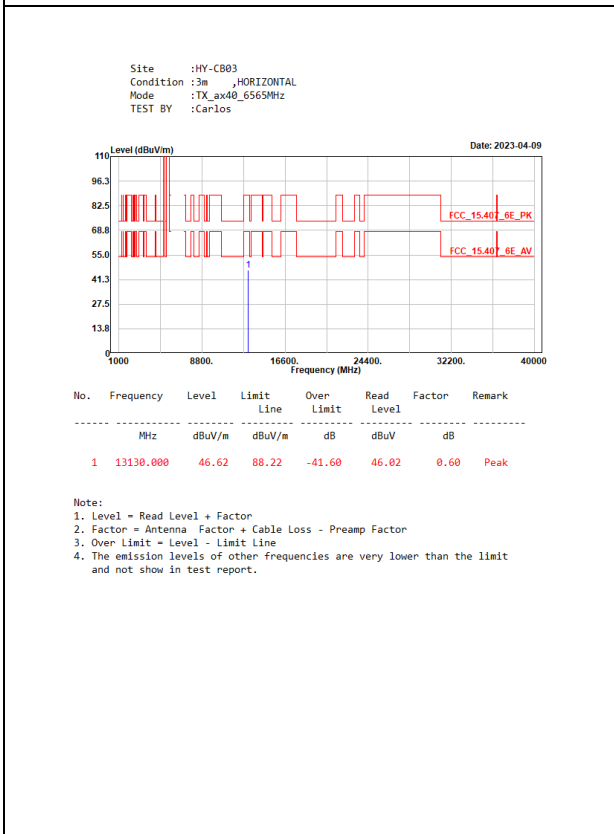
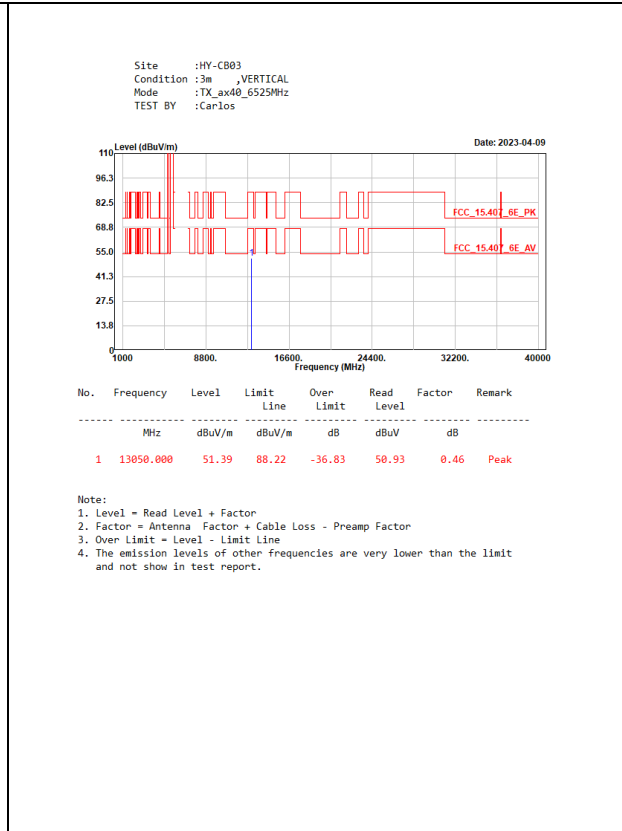
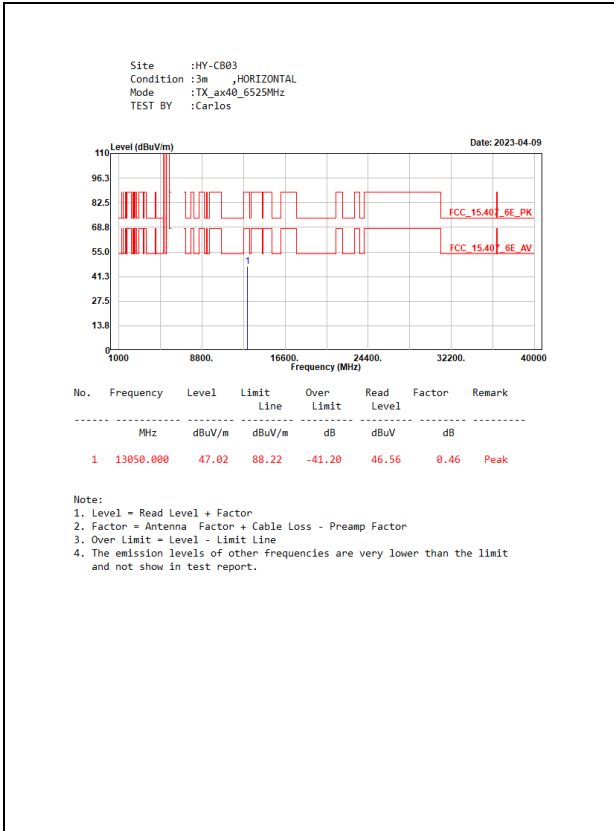


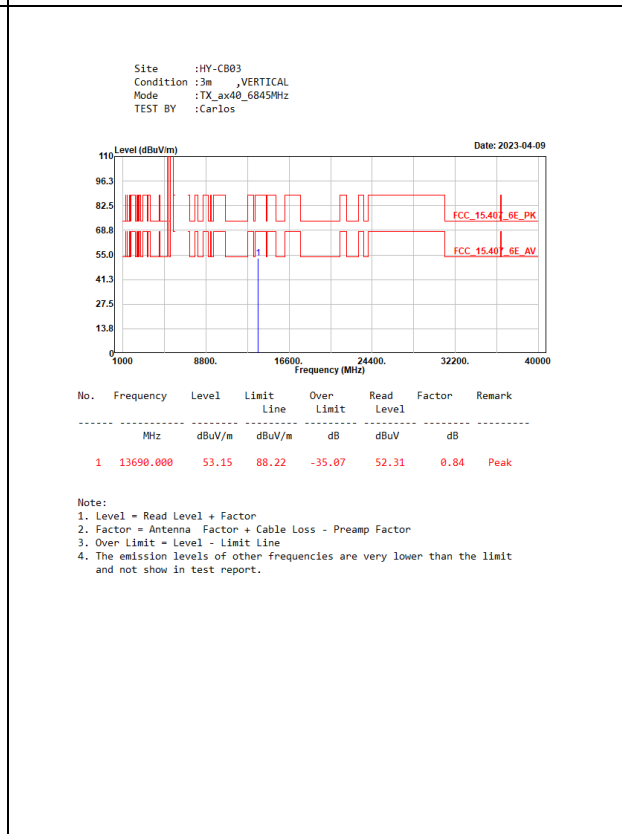
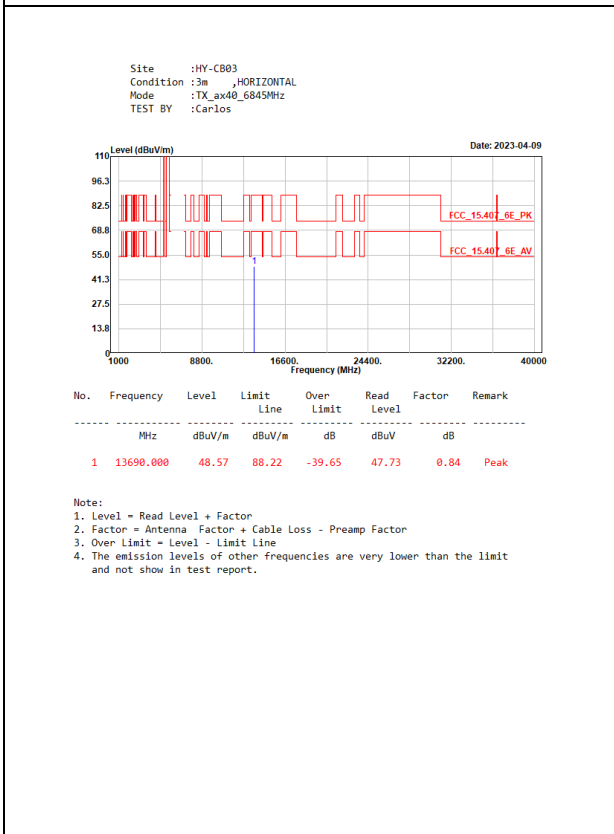
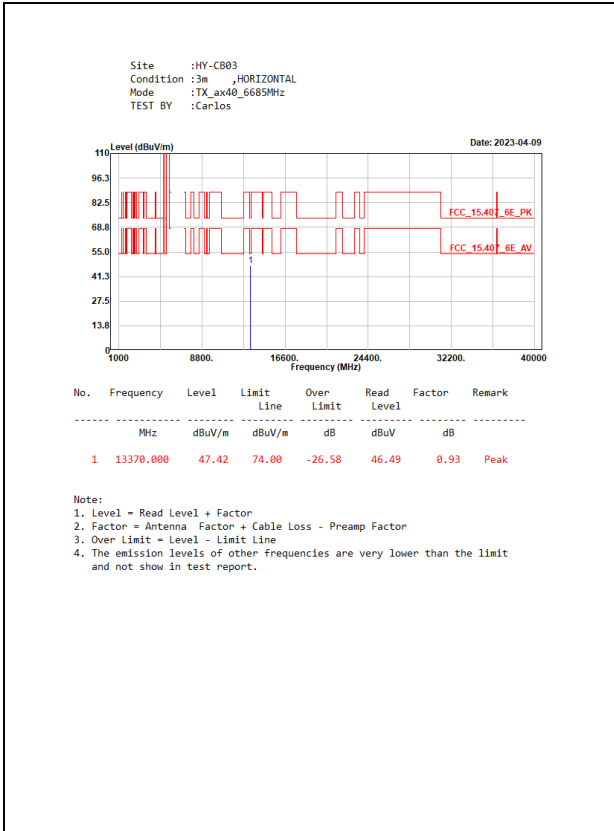


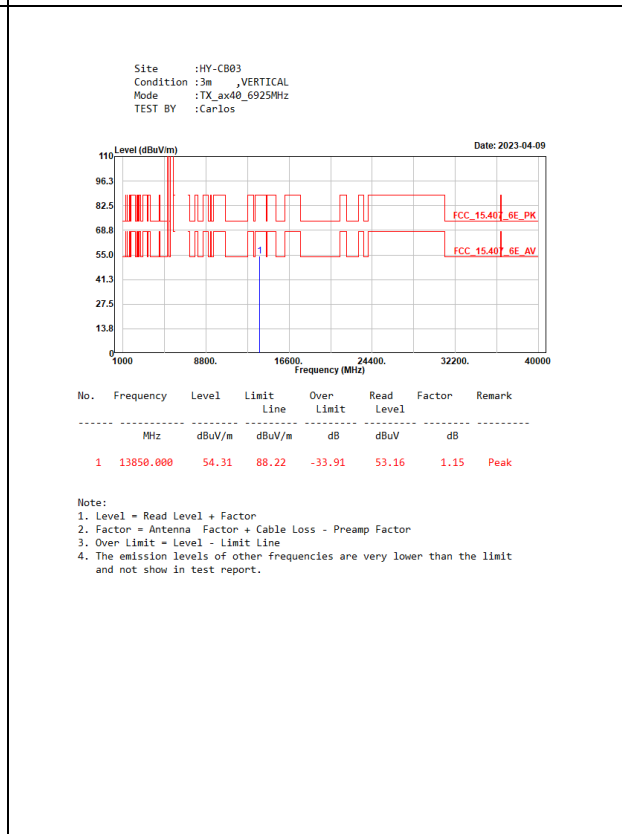
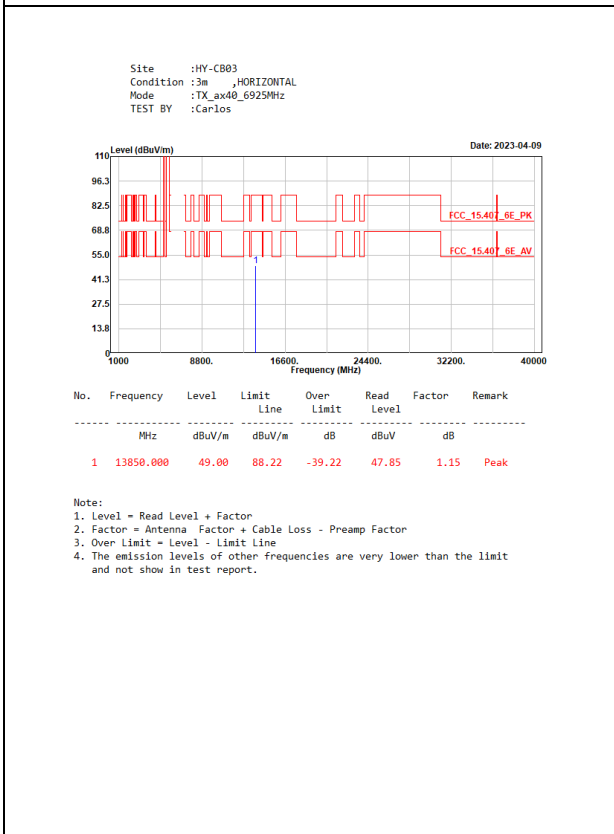
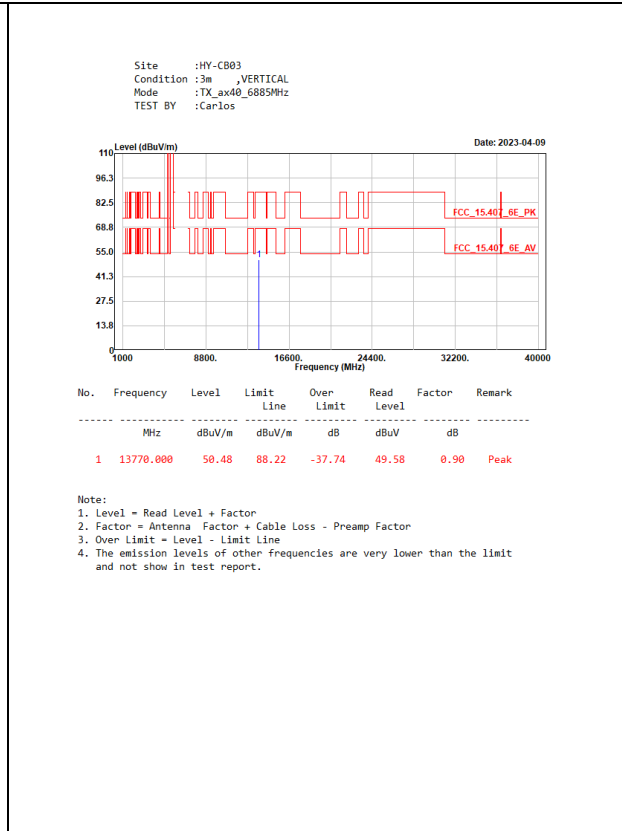
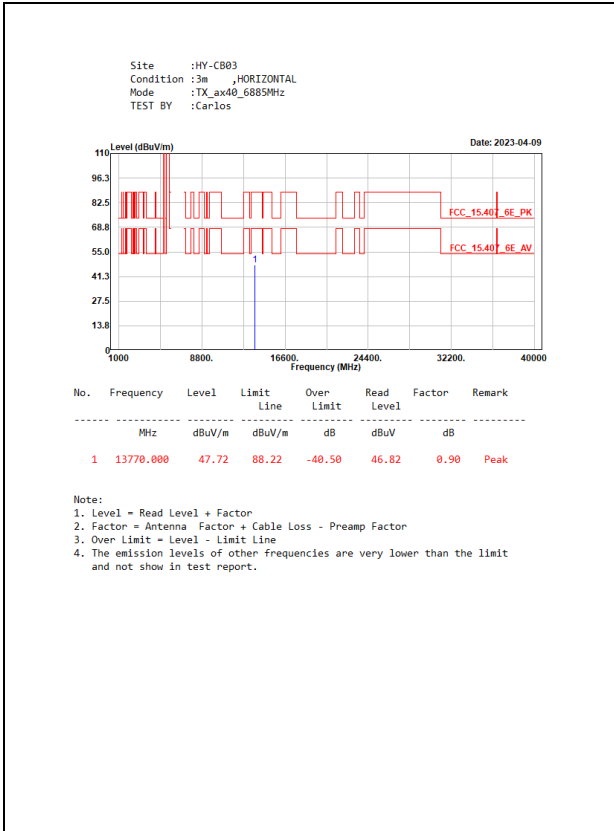


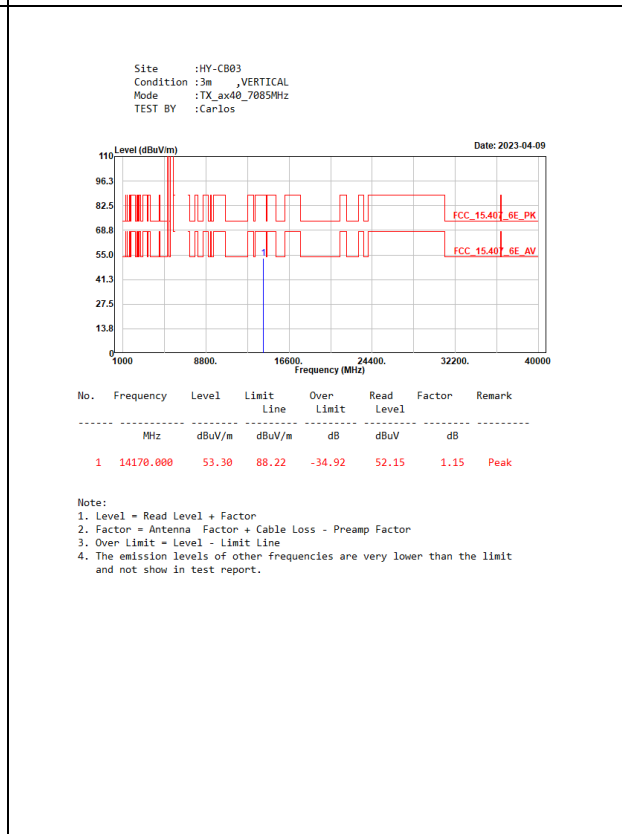
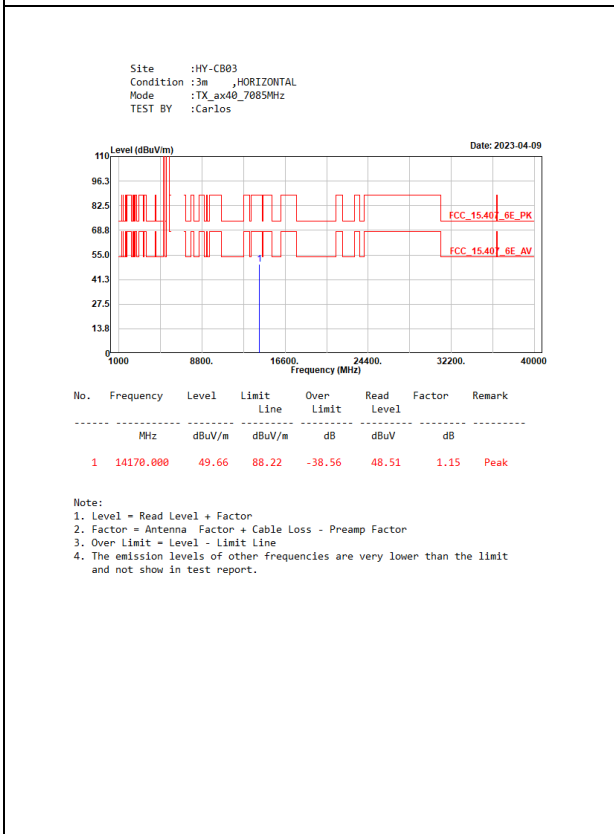
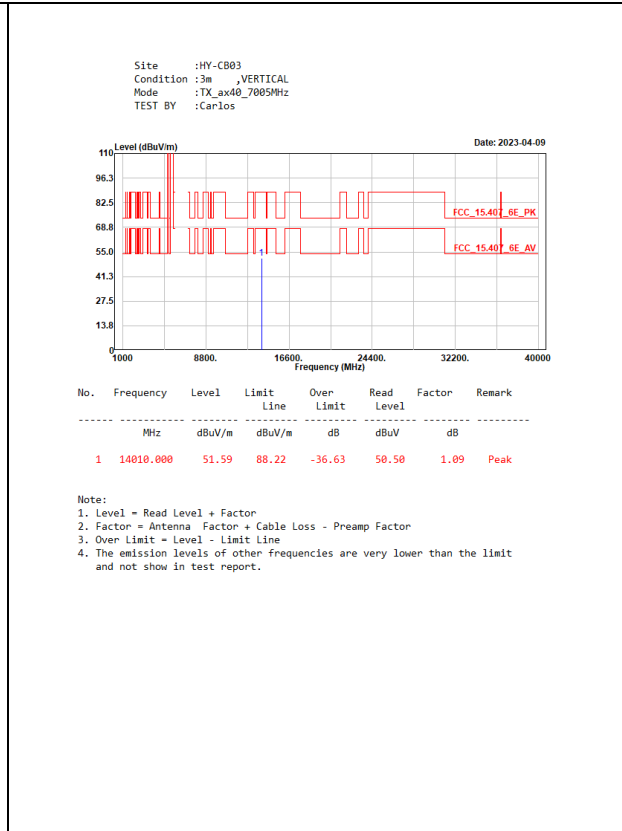
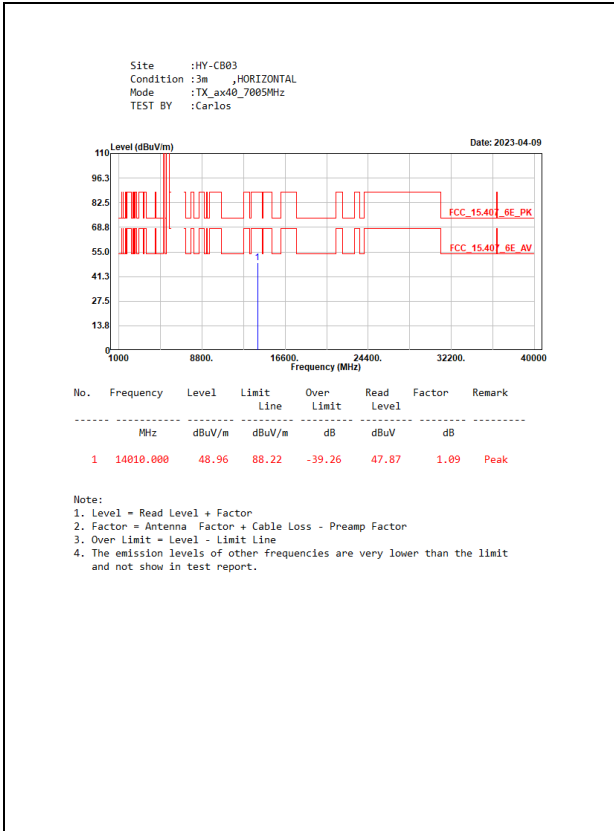


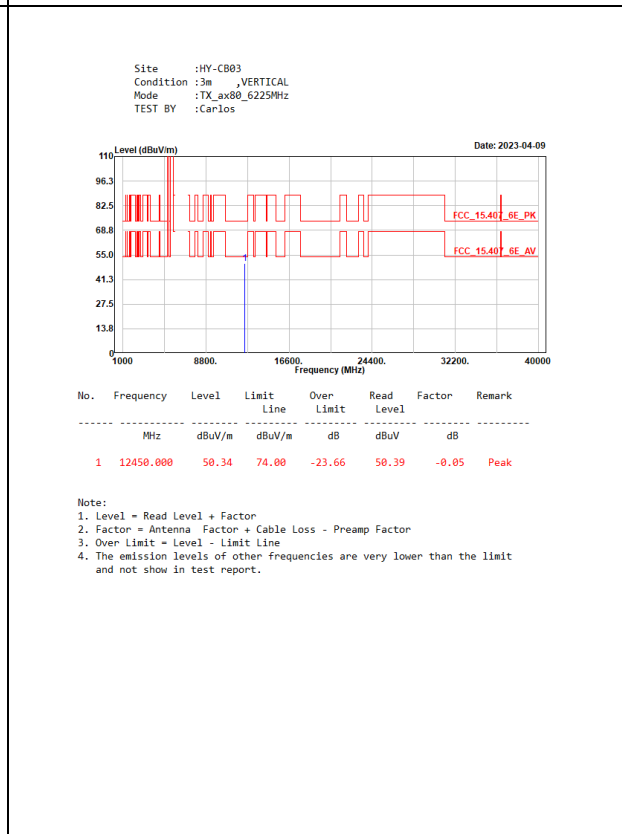
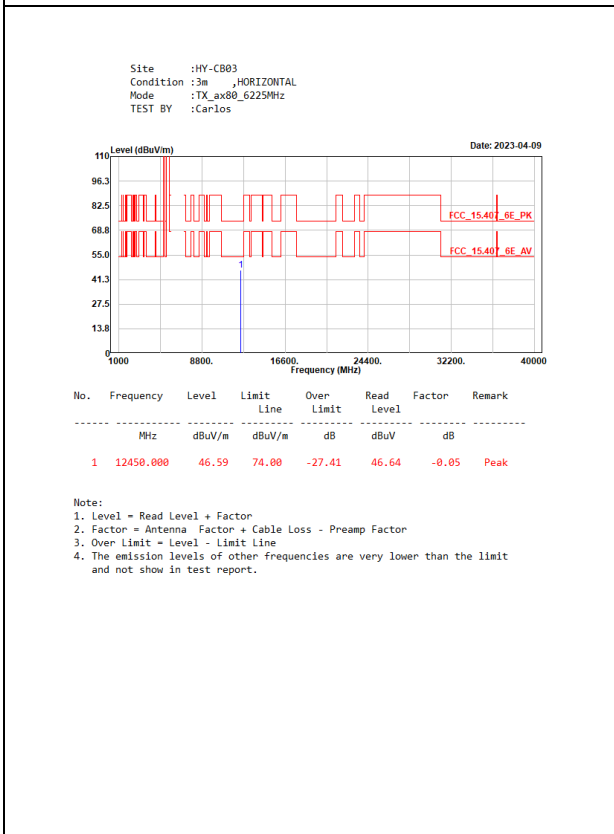
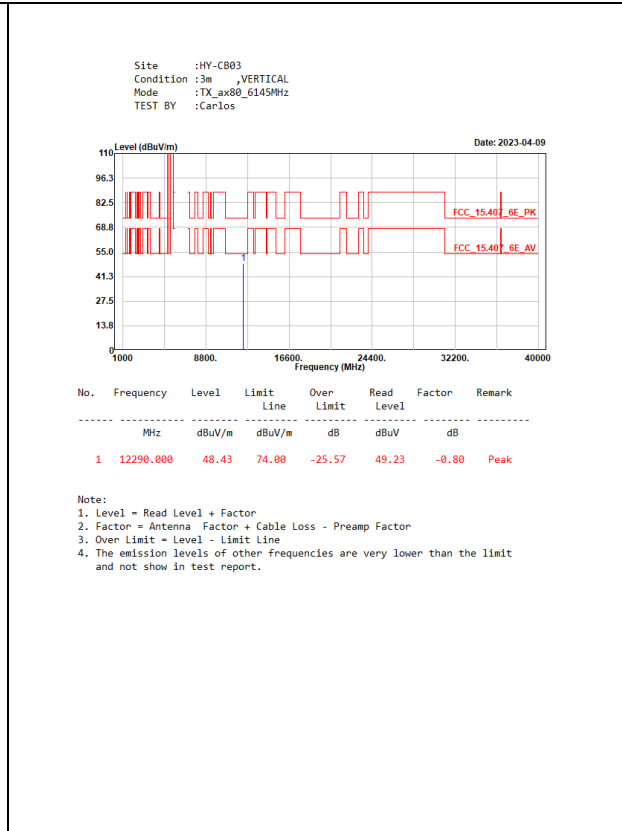
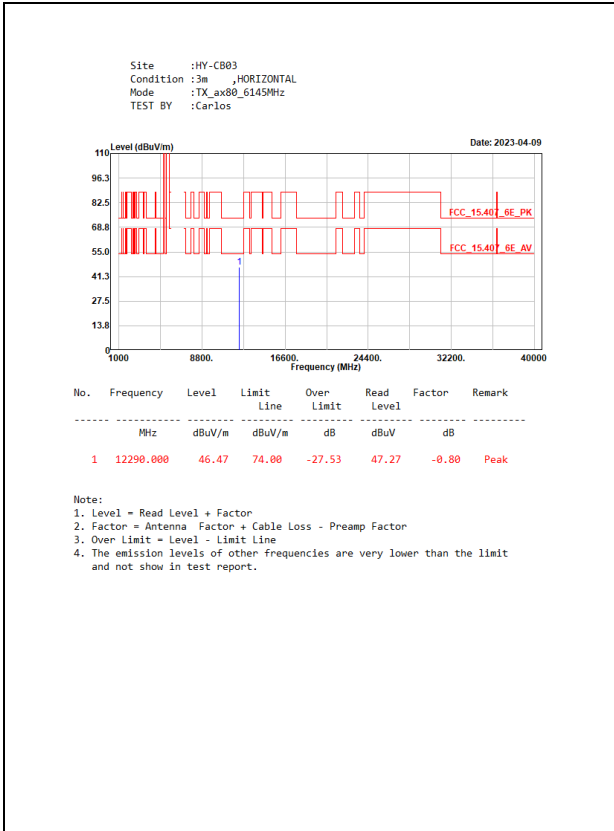


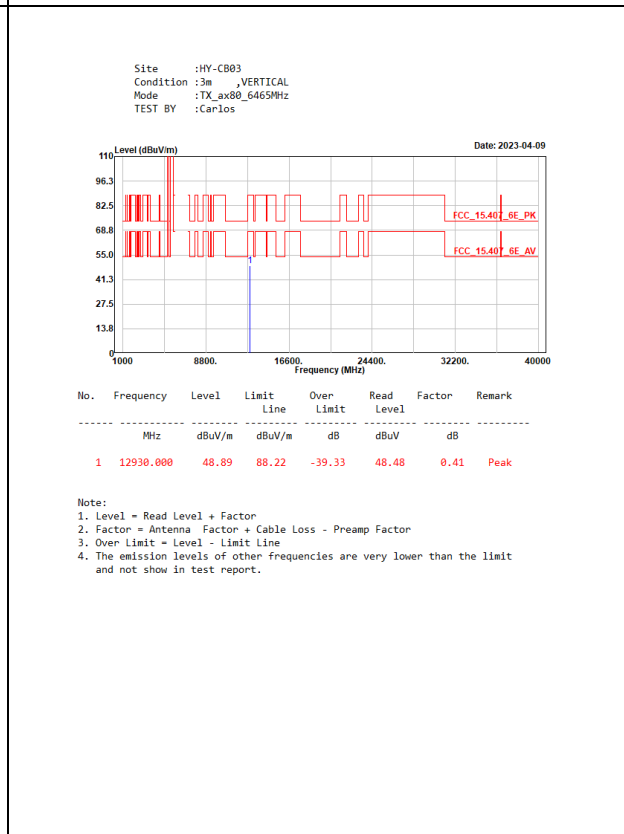
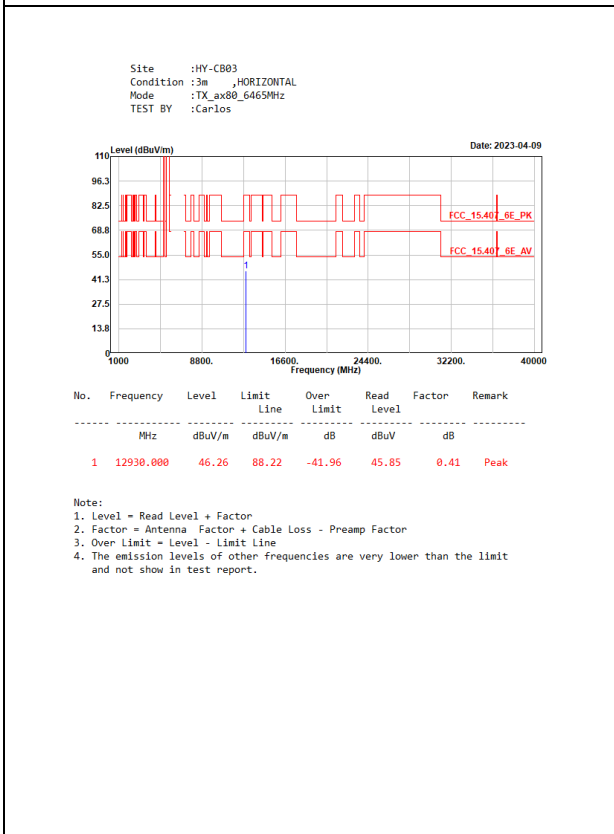
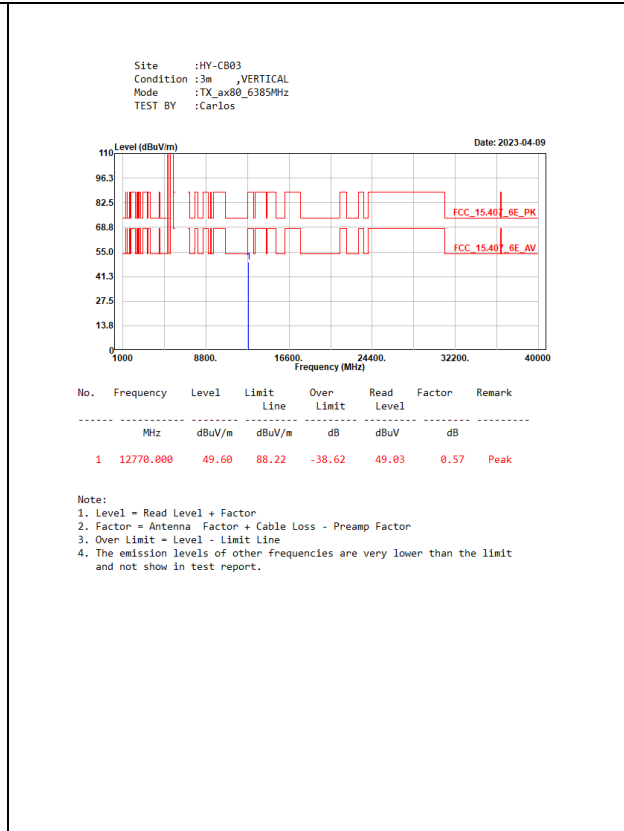
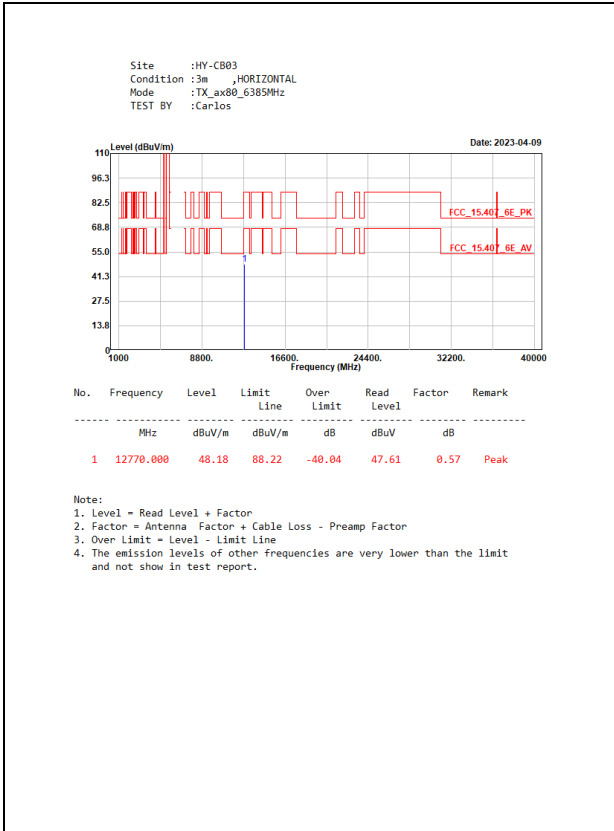


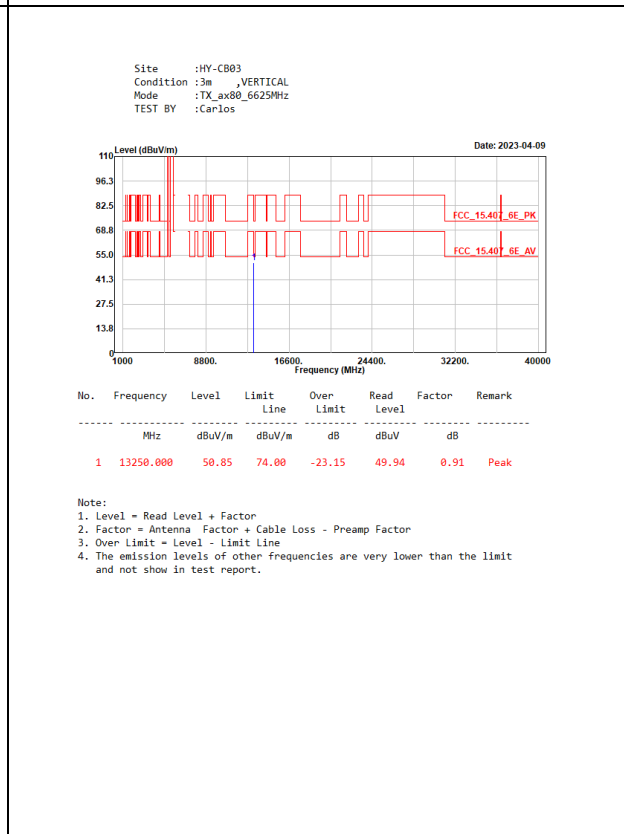
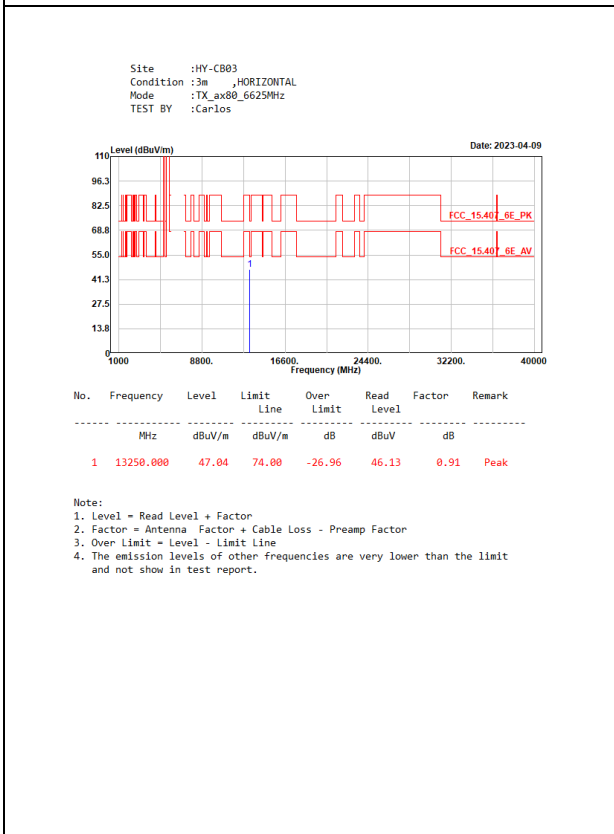
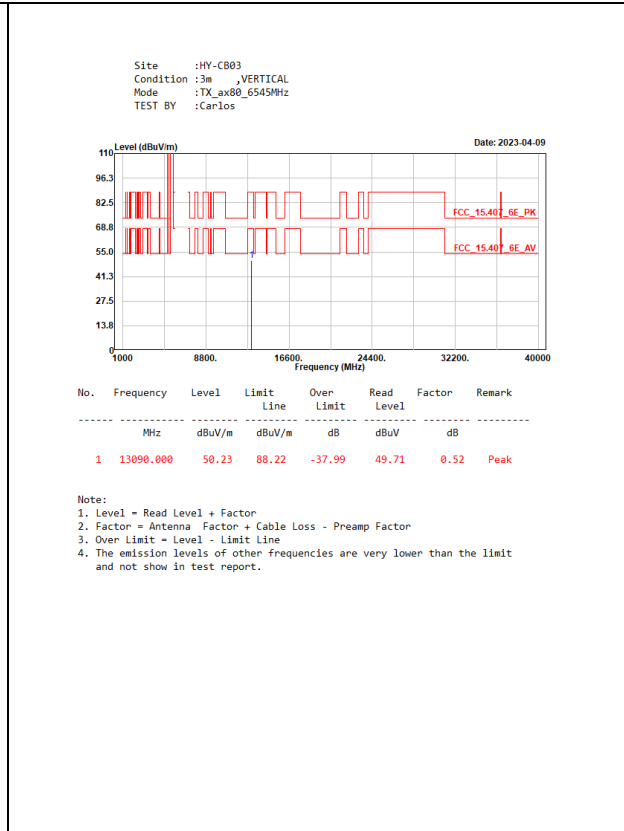
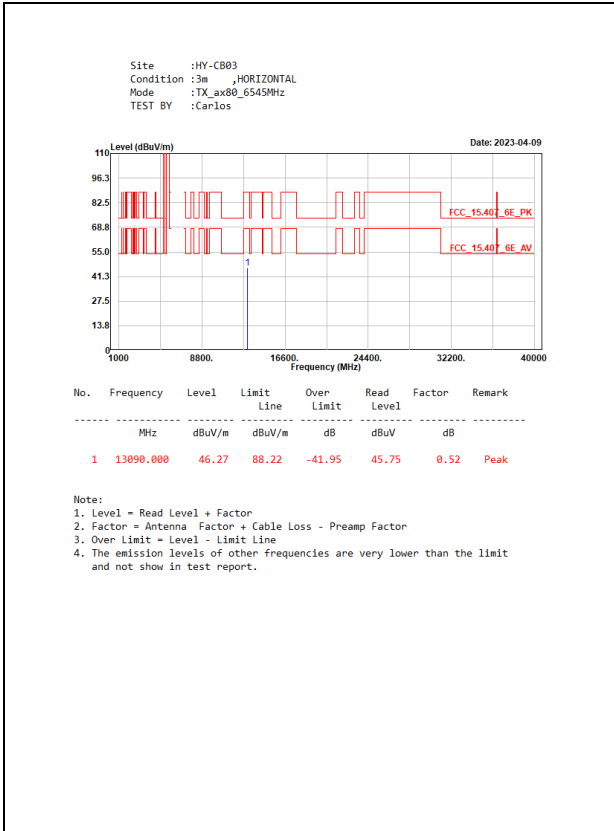


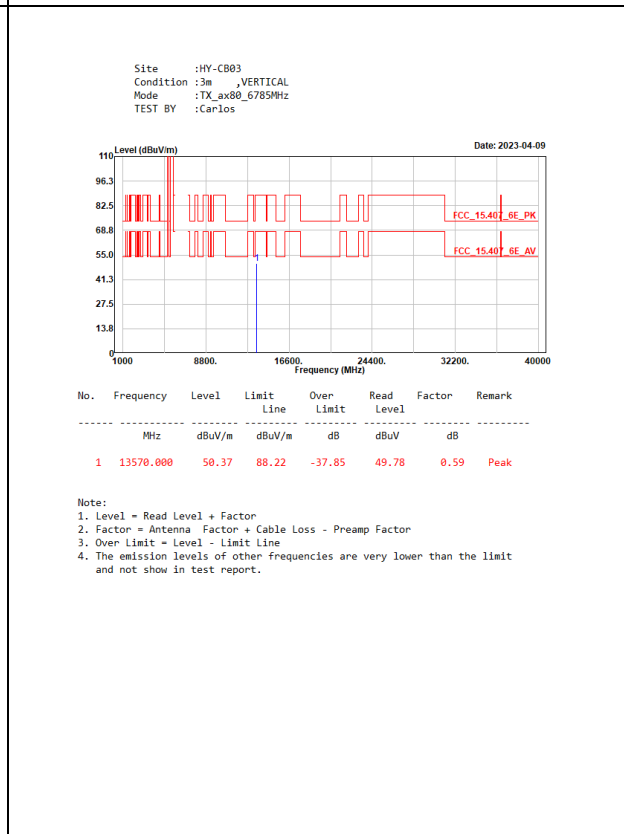
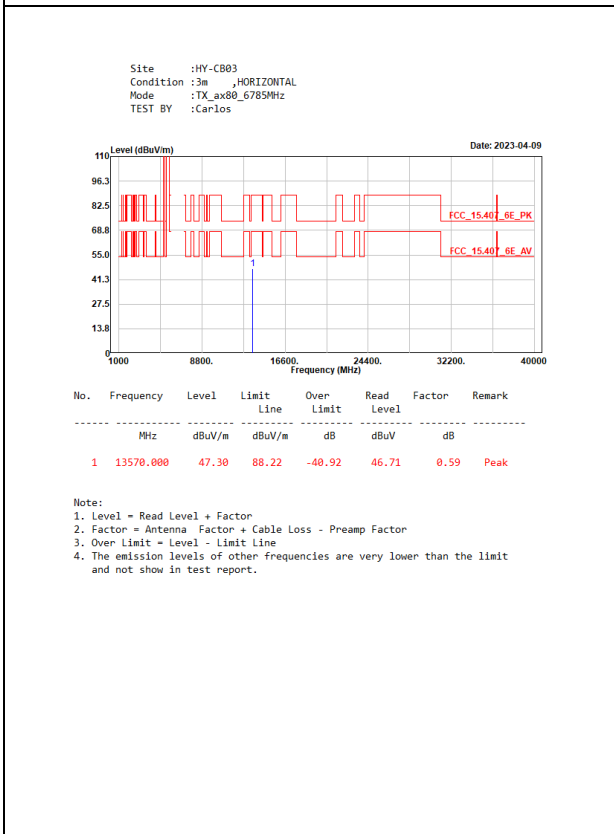
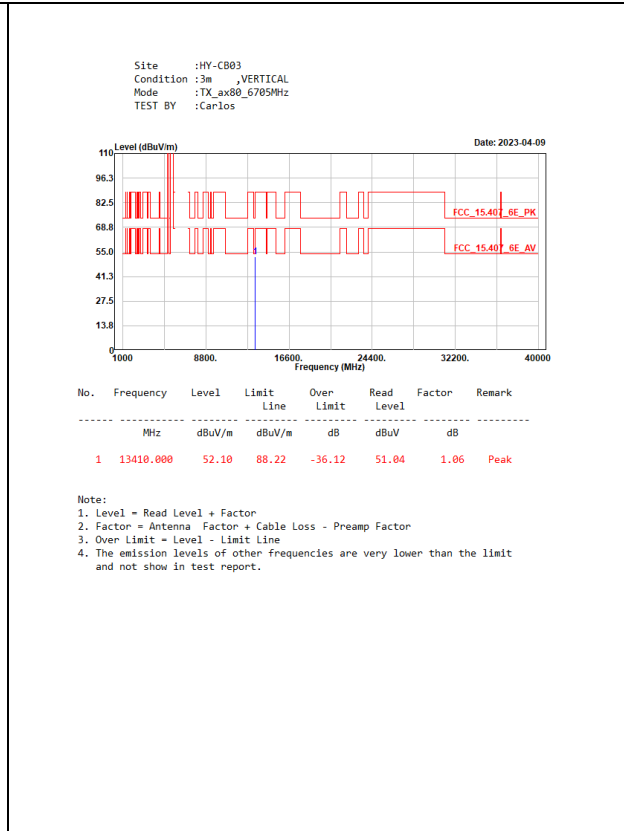
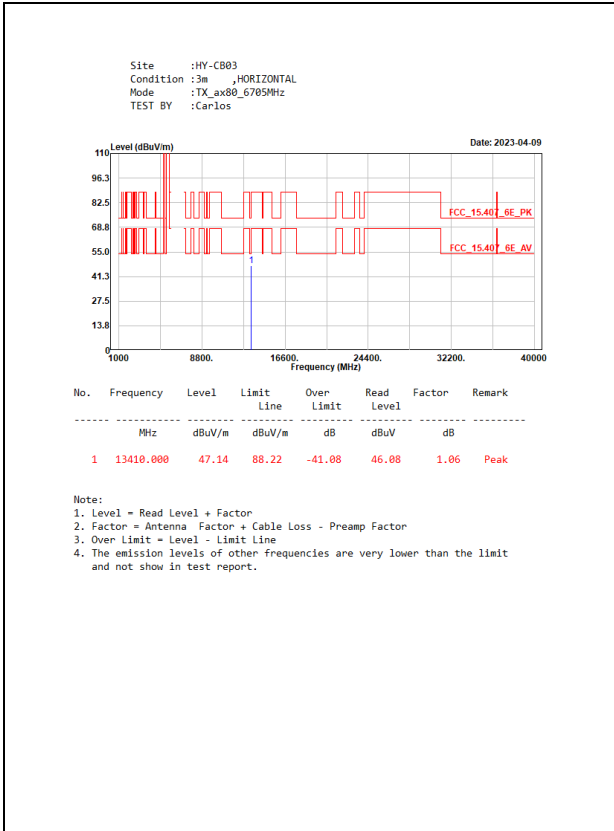


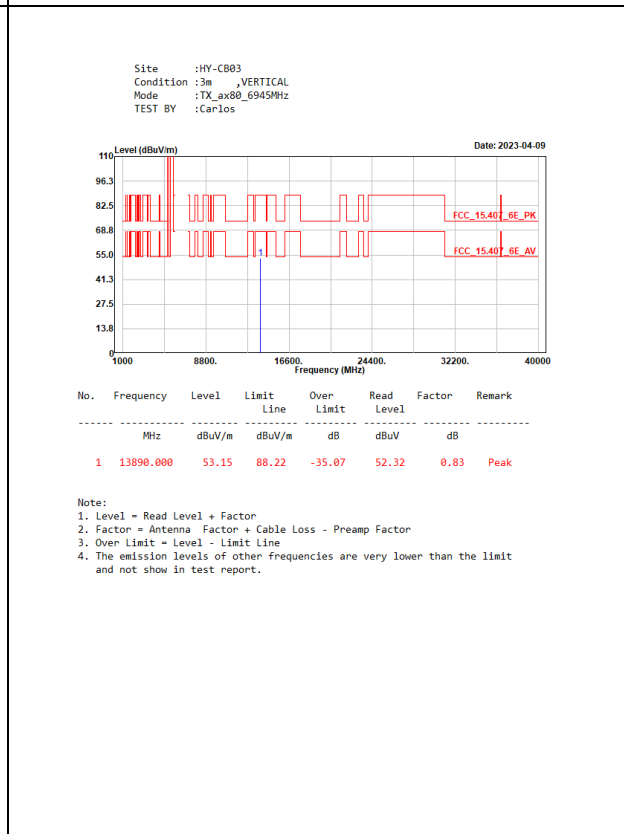
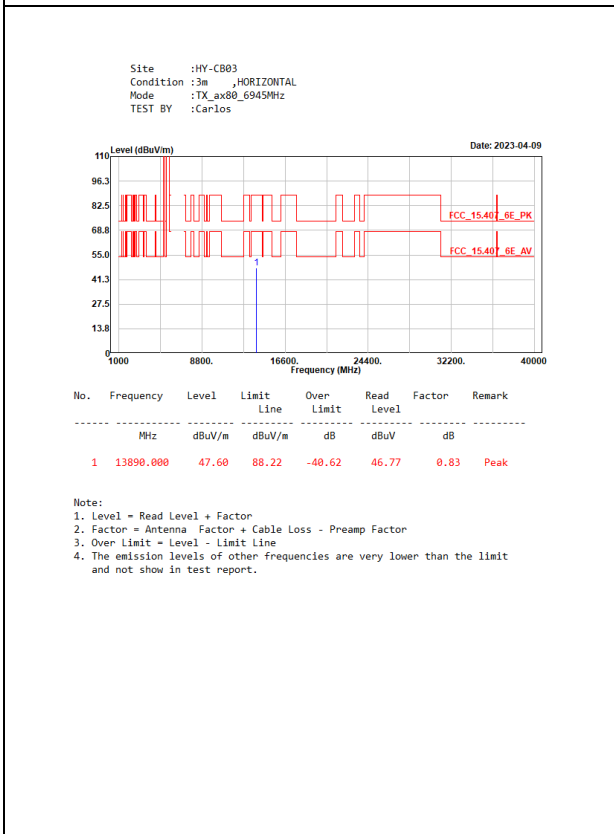
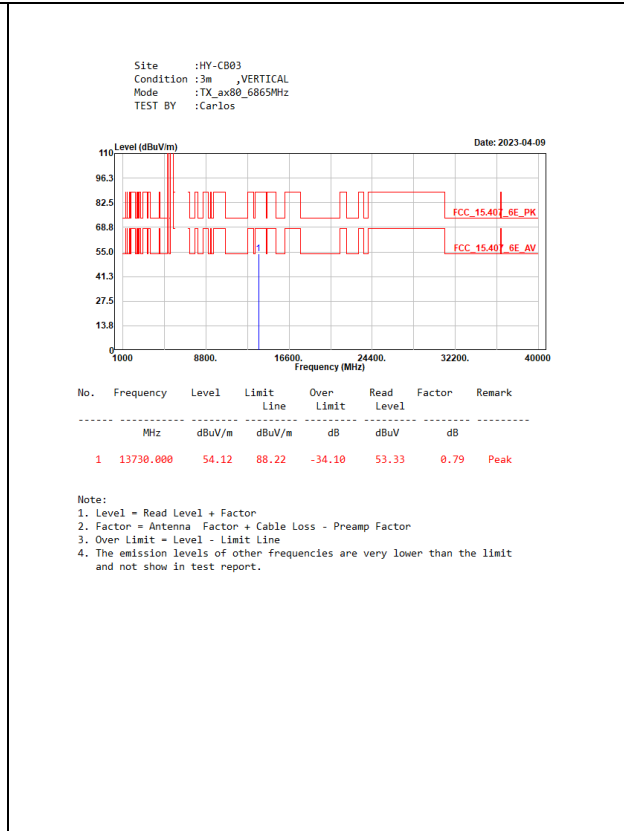
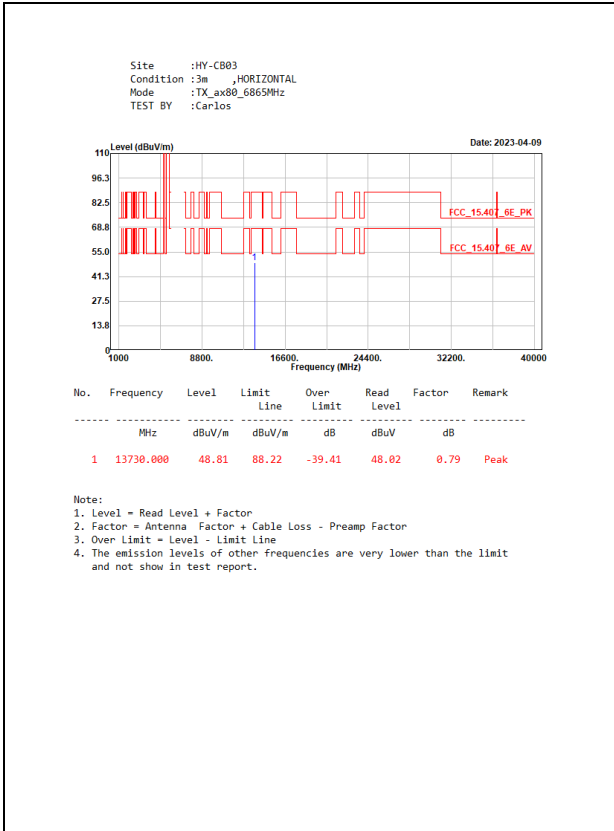


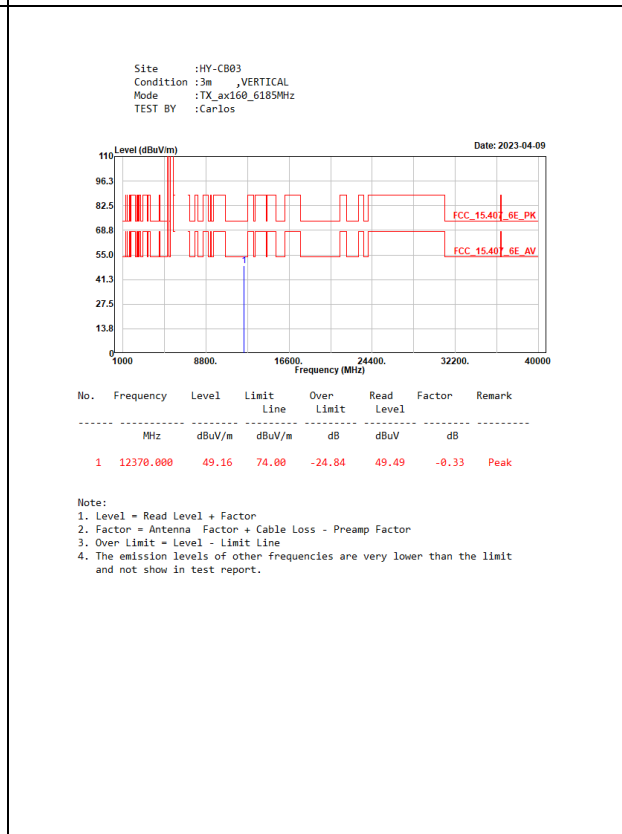
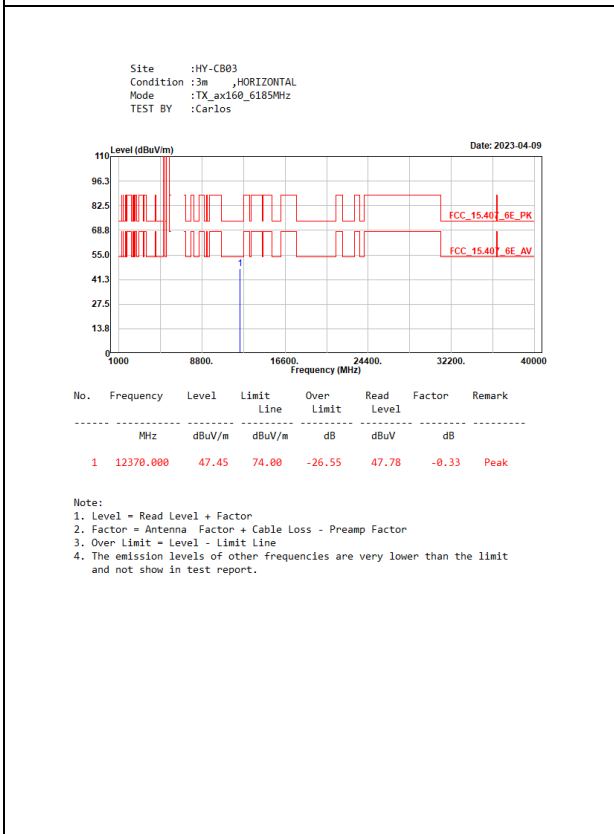
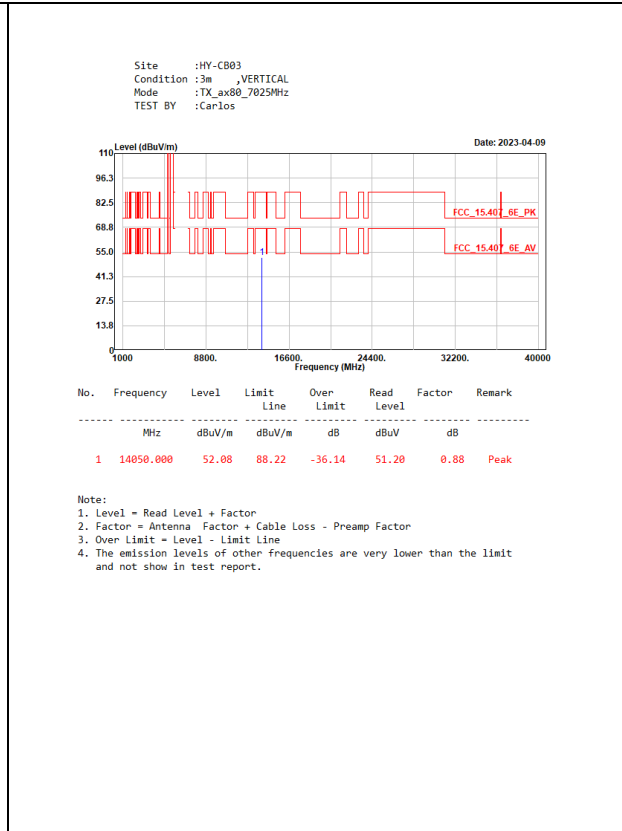
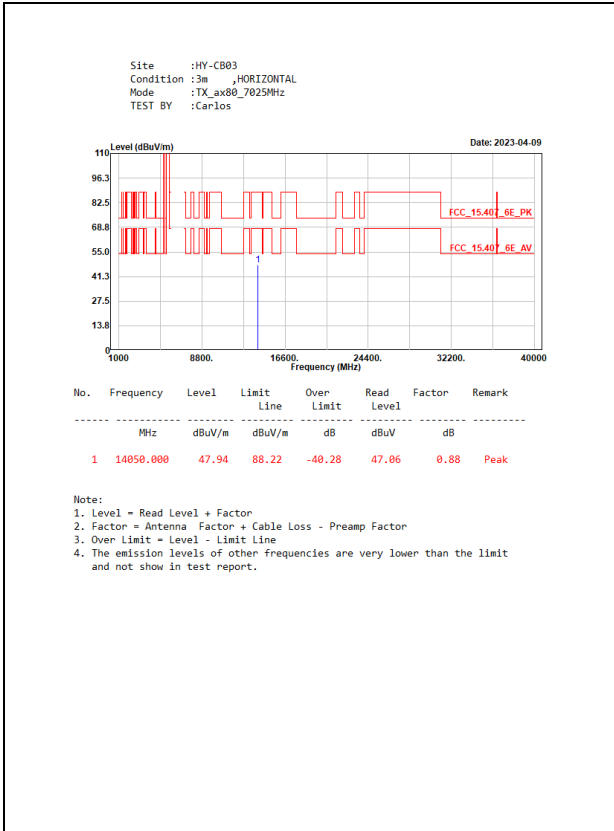


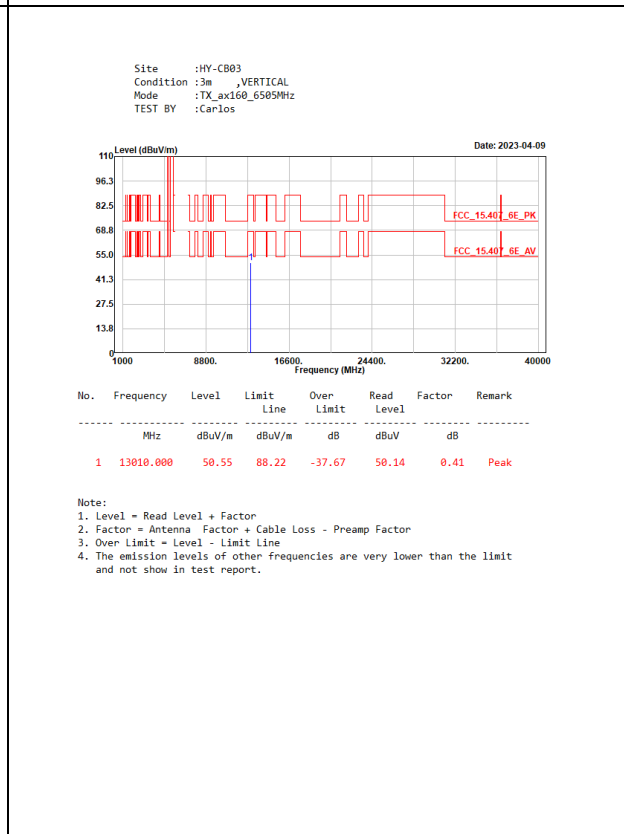
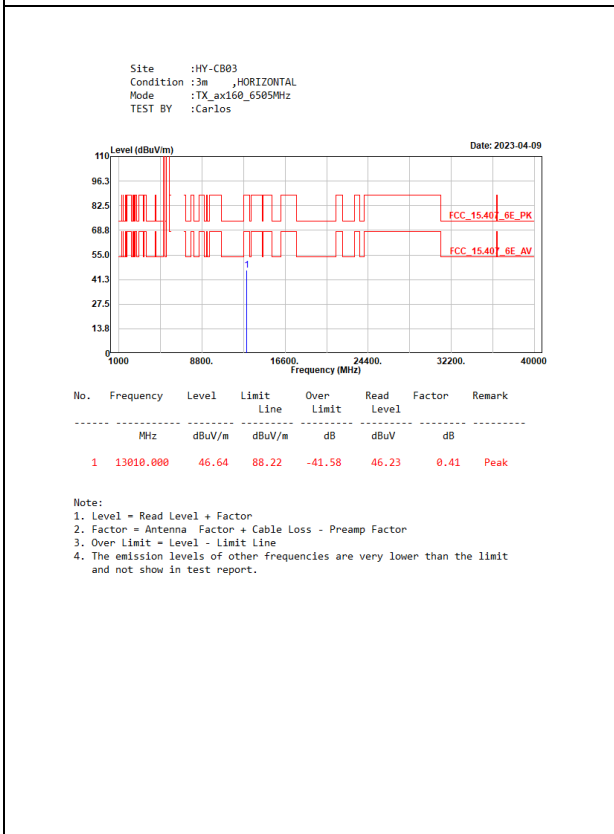
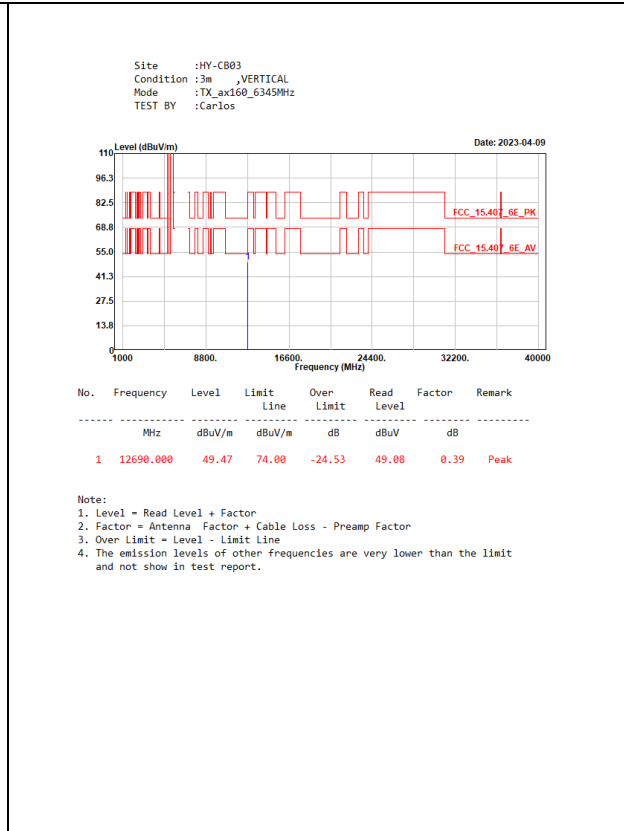
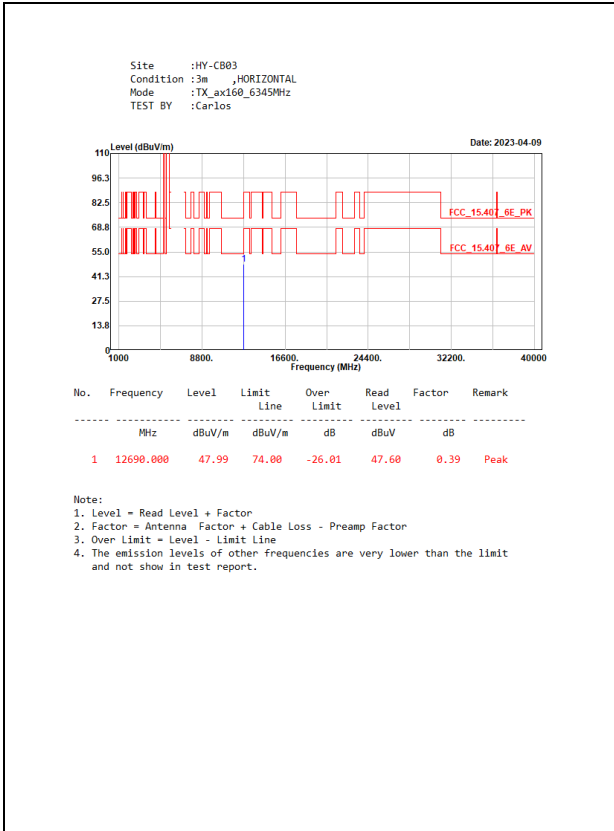


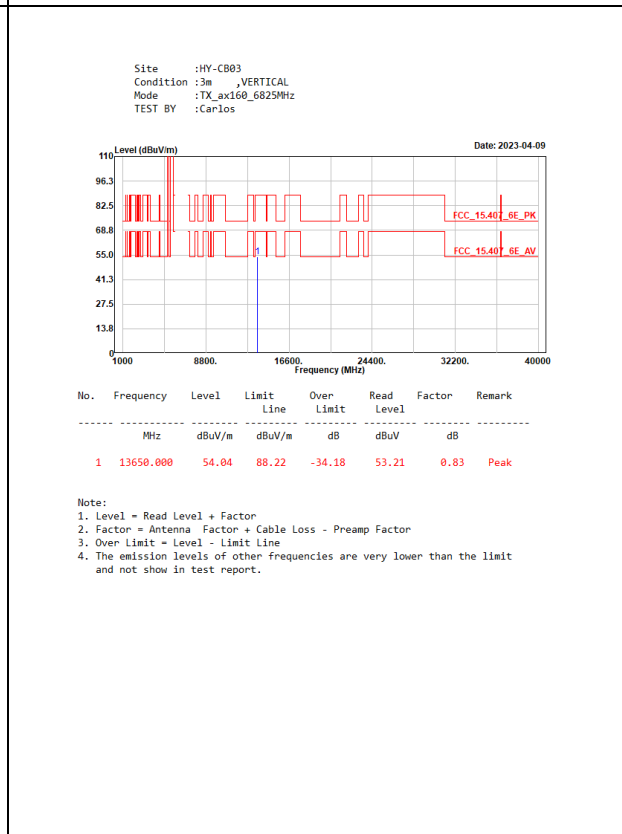
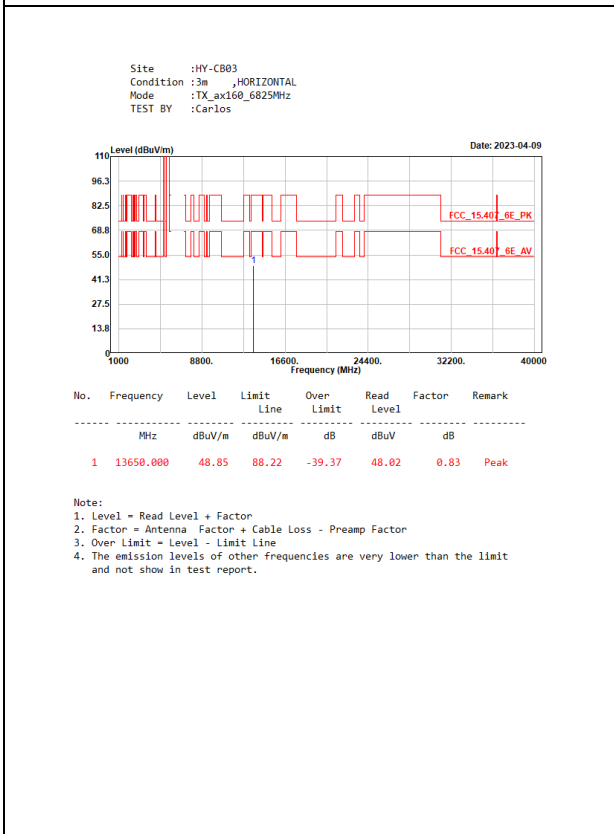
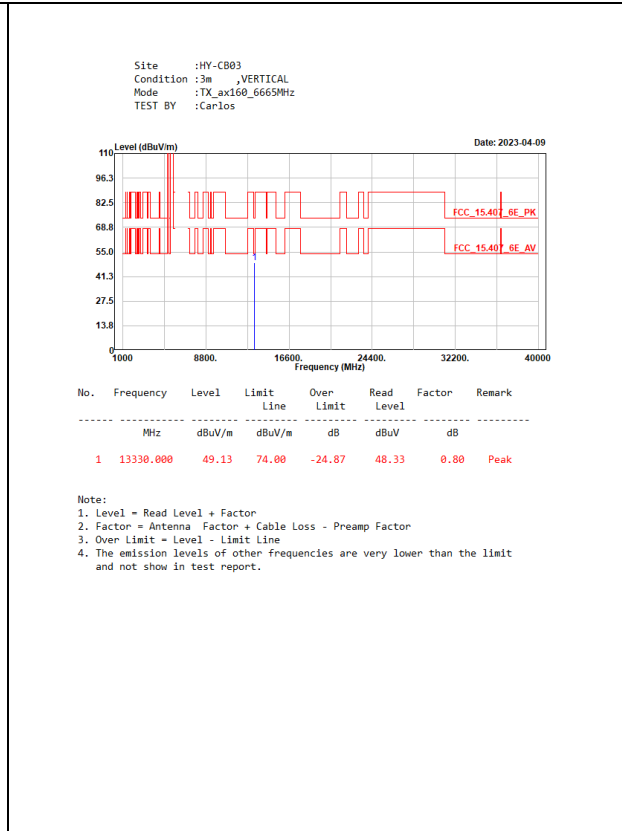
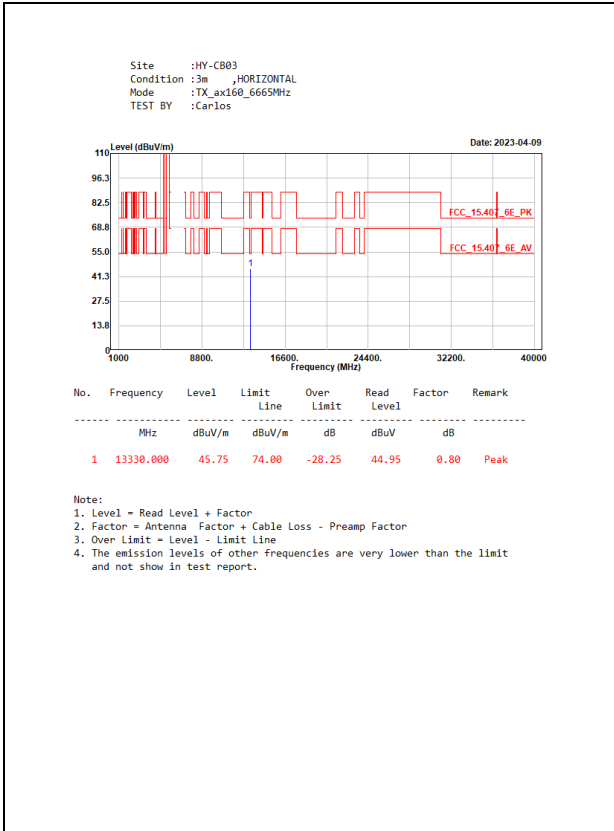


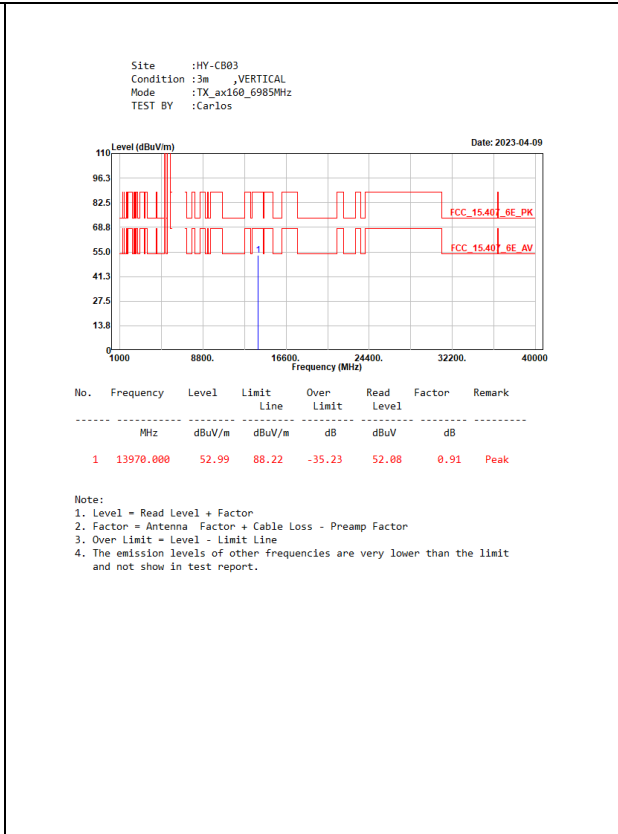
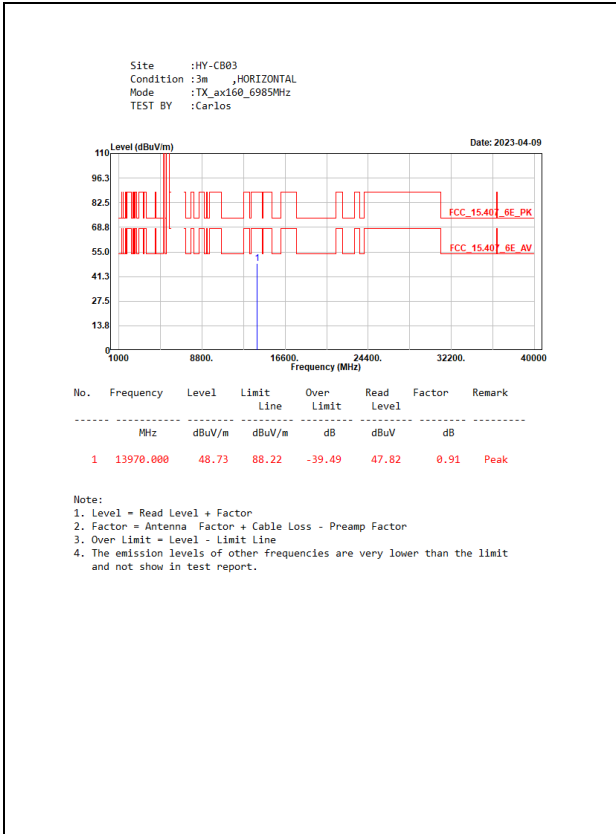












Beamforming_NSS-1

