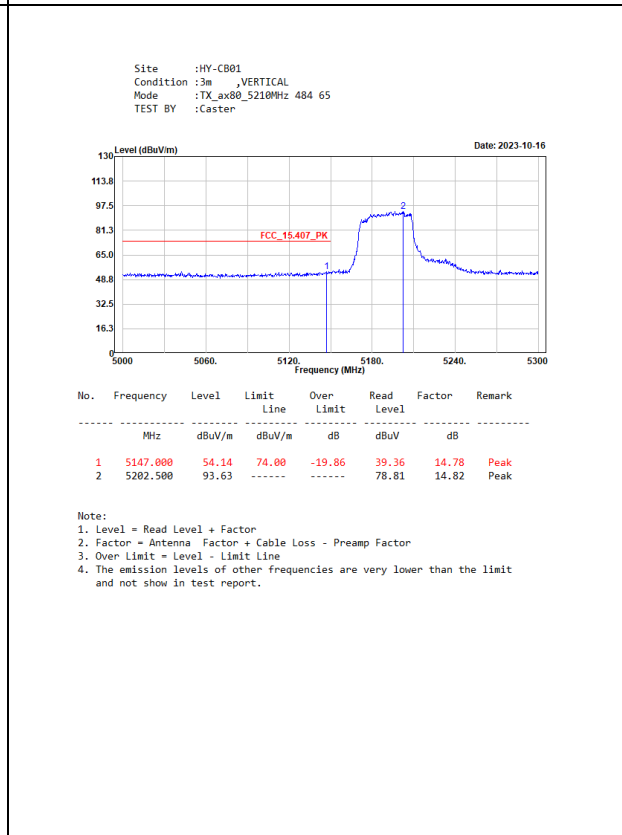
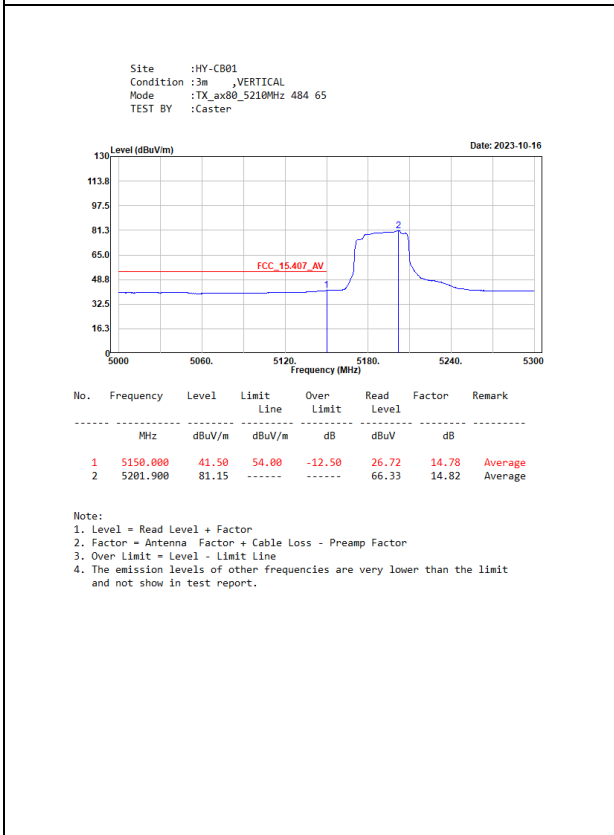
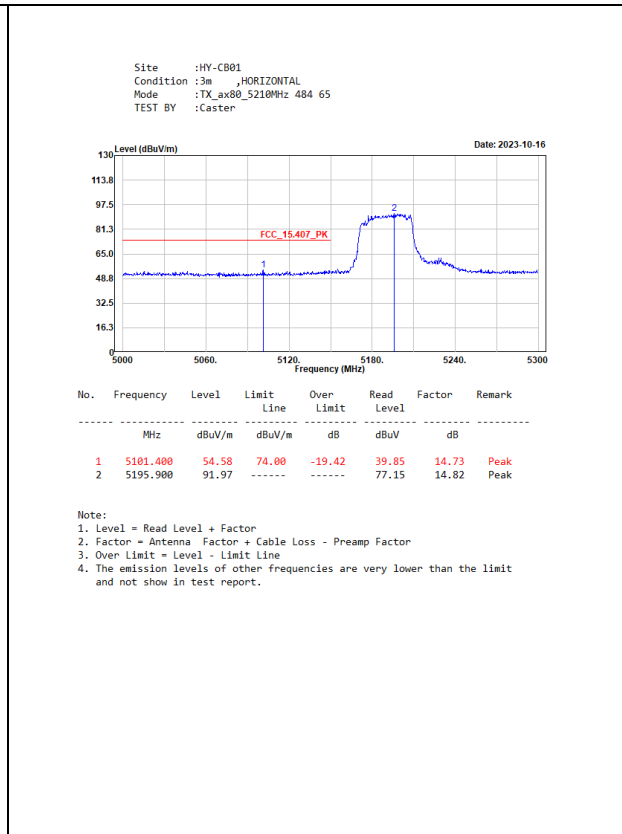
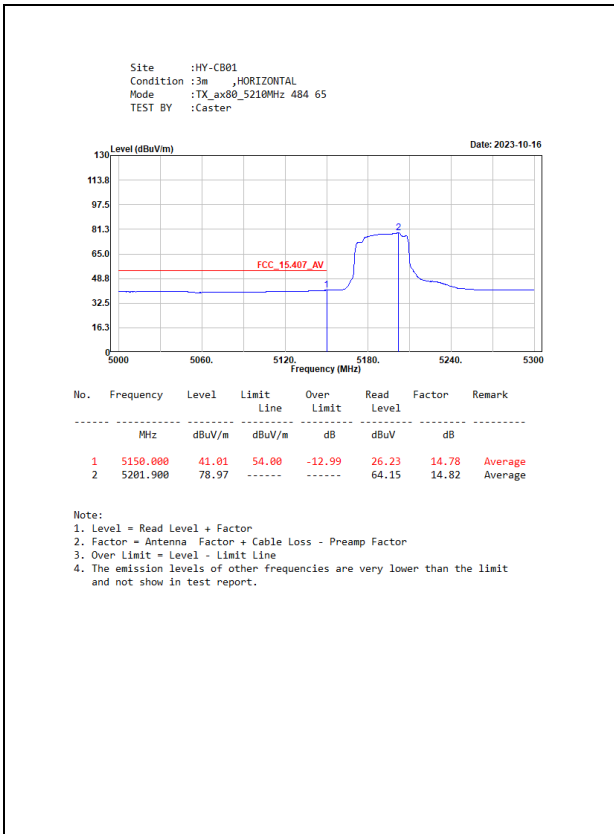
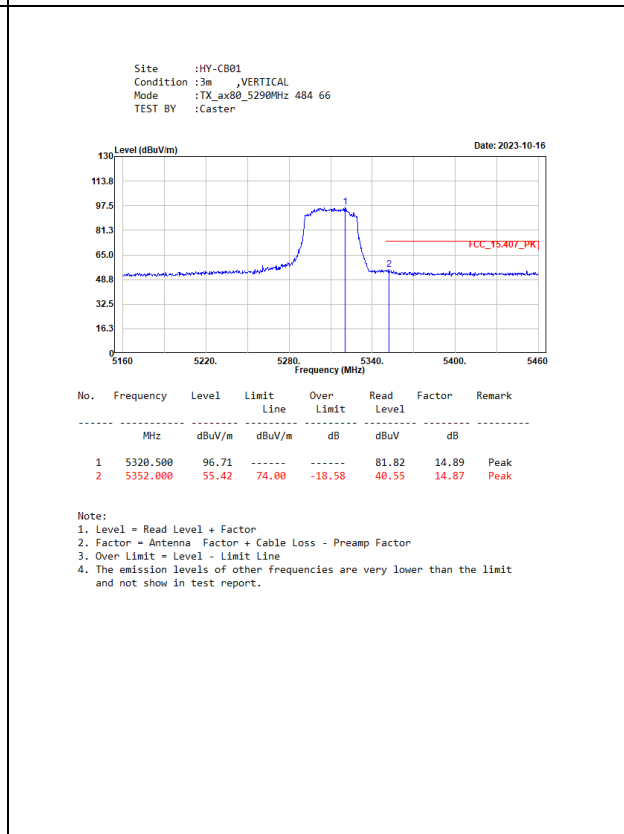
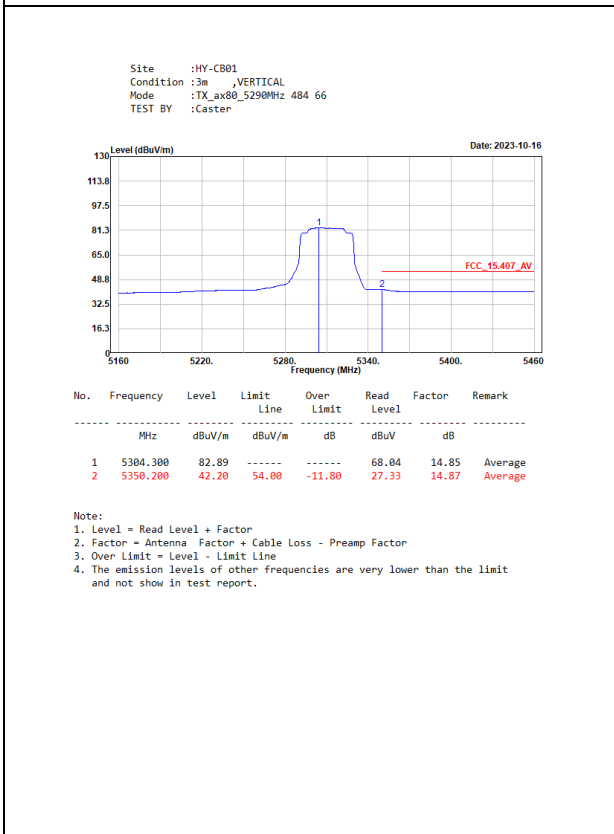
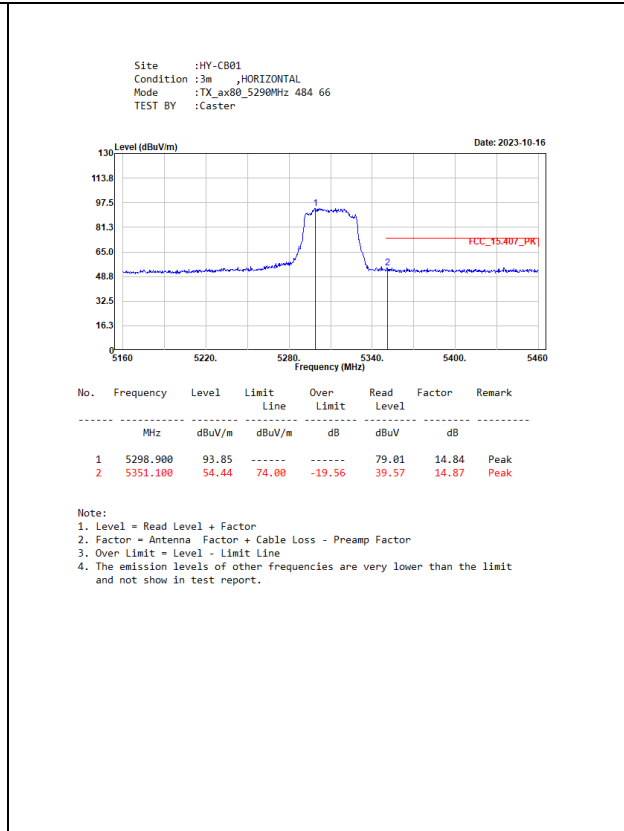
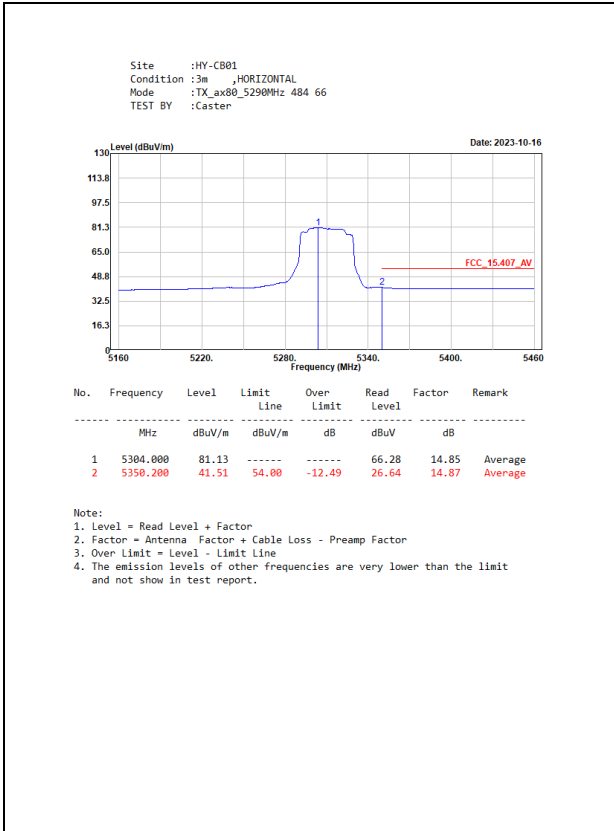
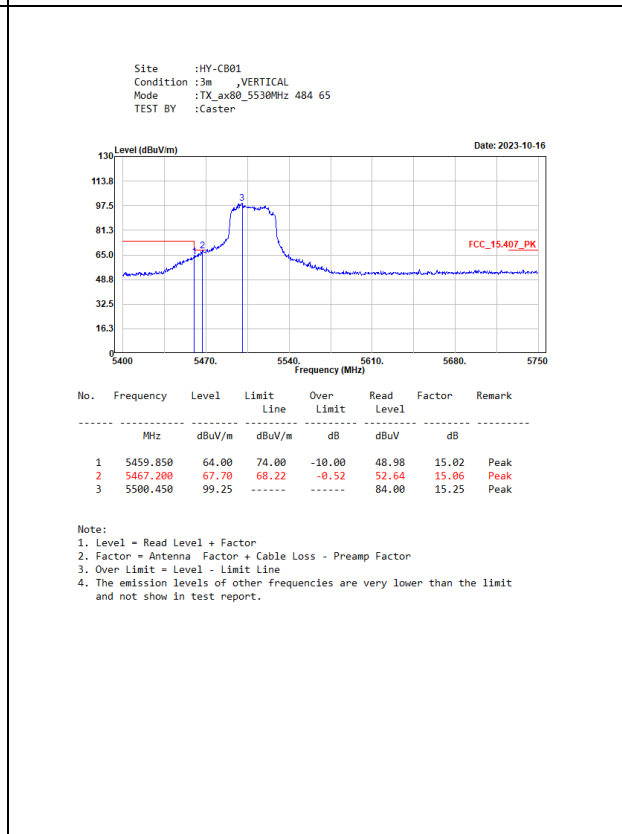
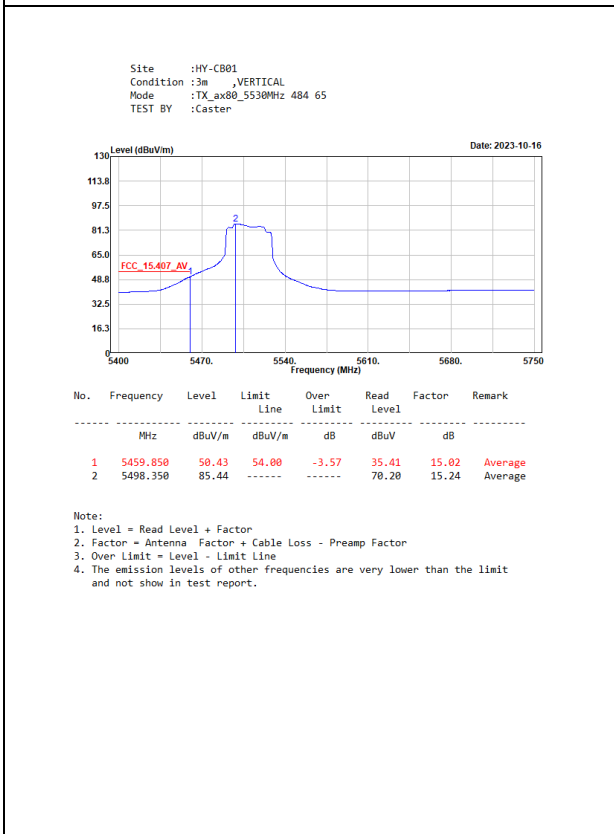
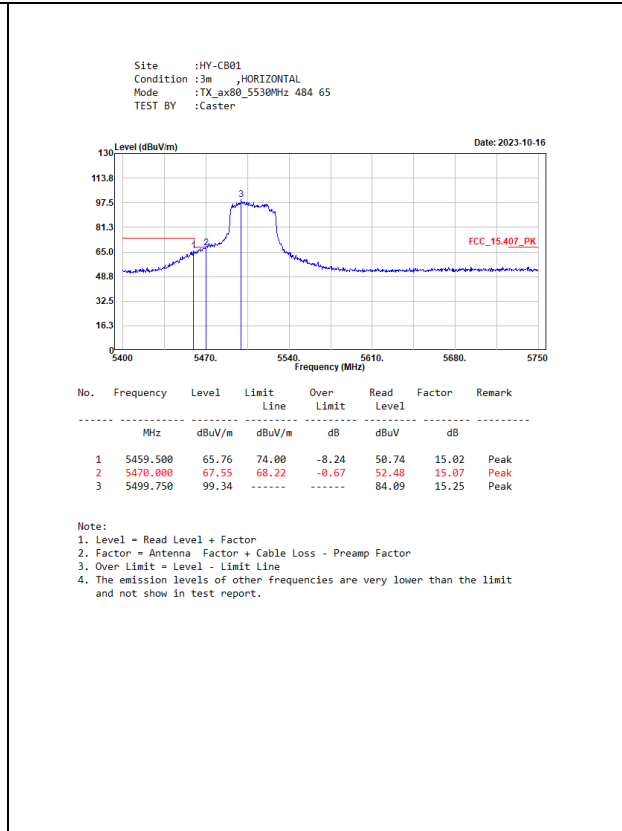
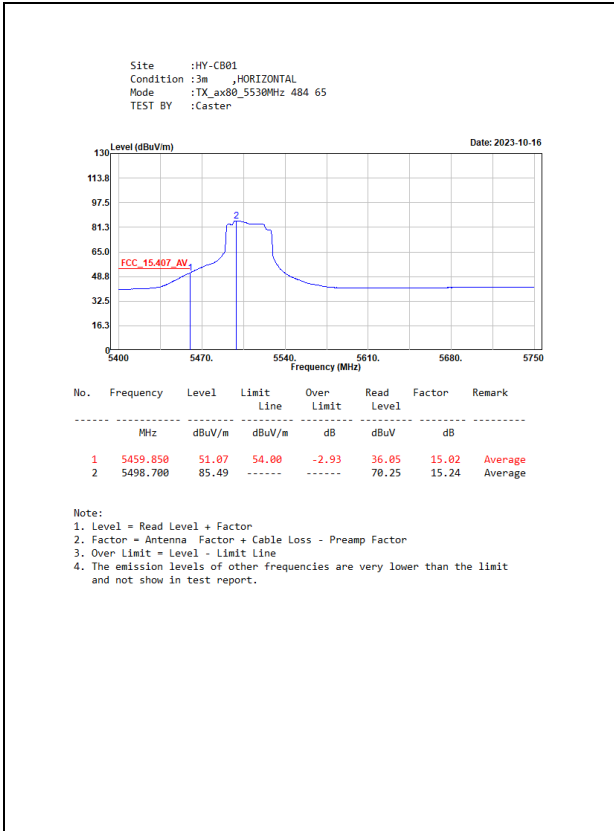
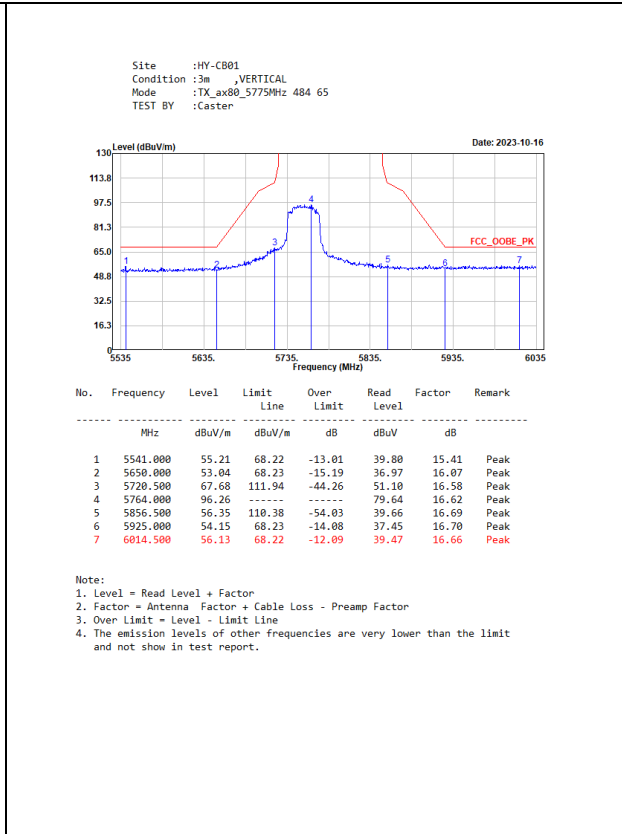
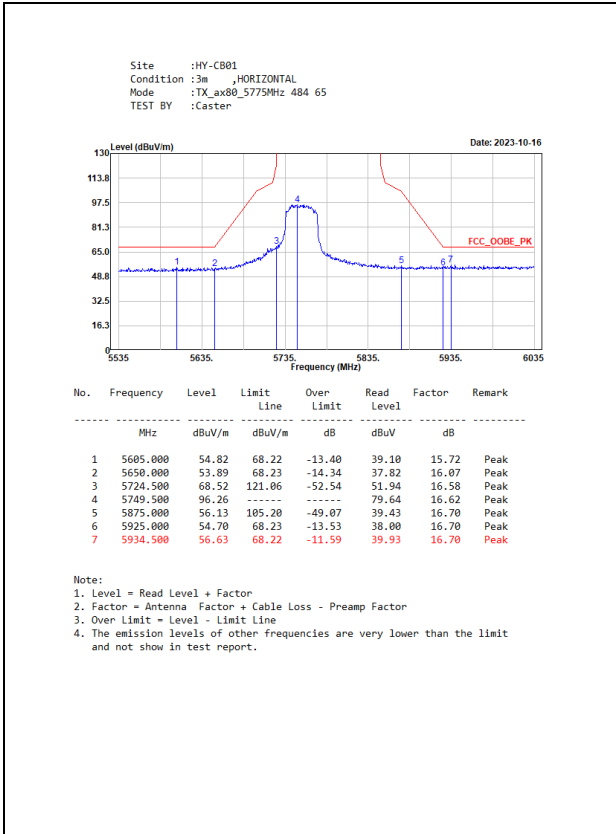


Partial RU-SISO B

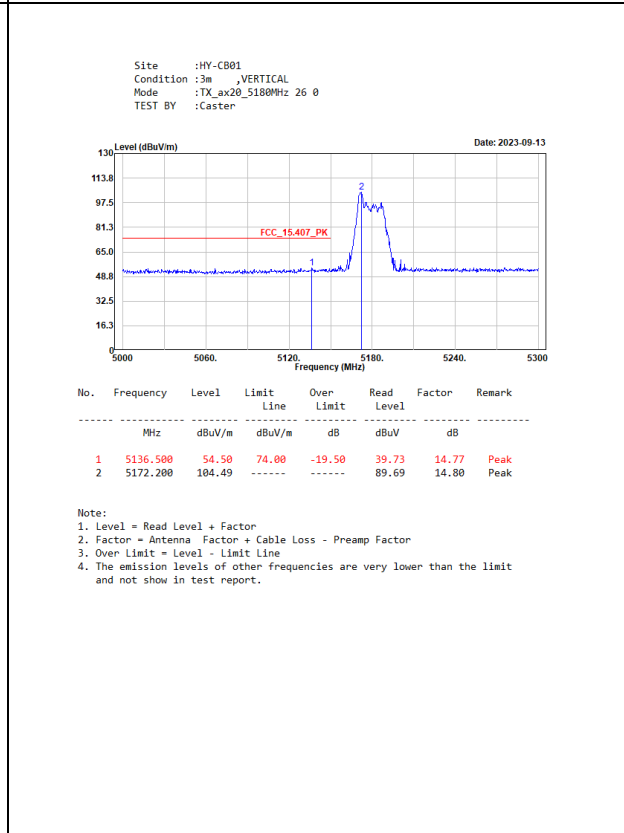
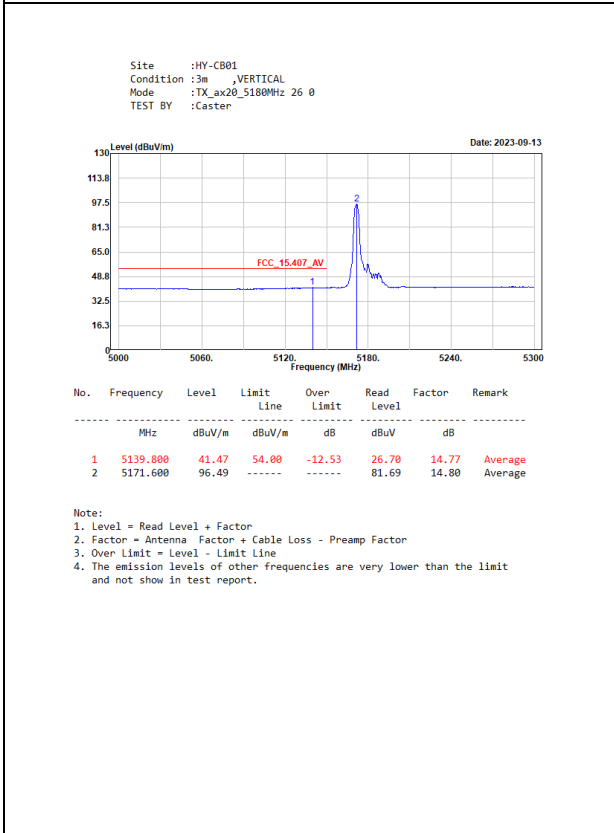
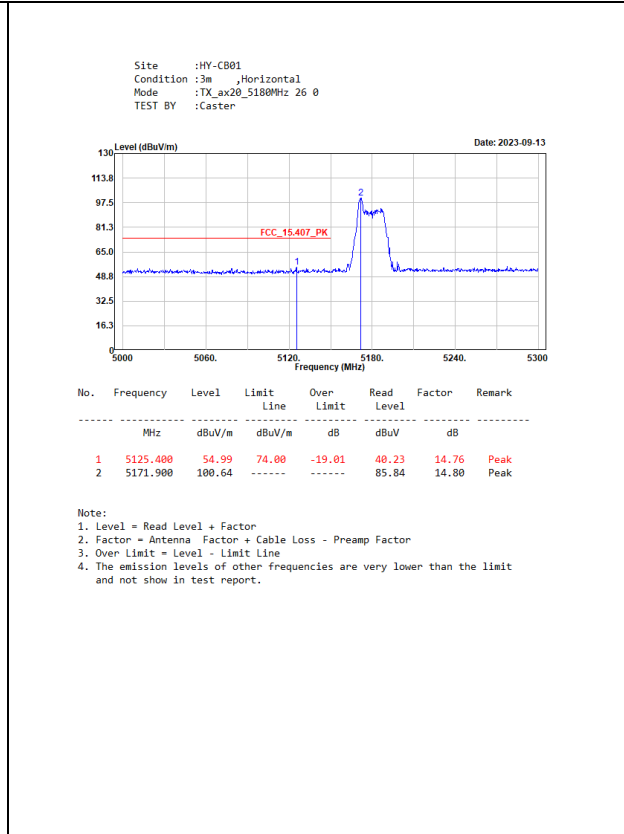
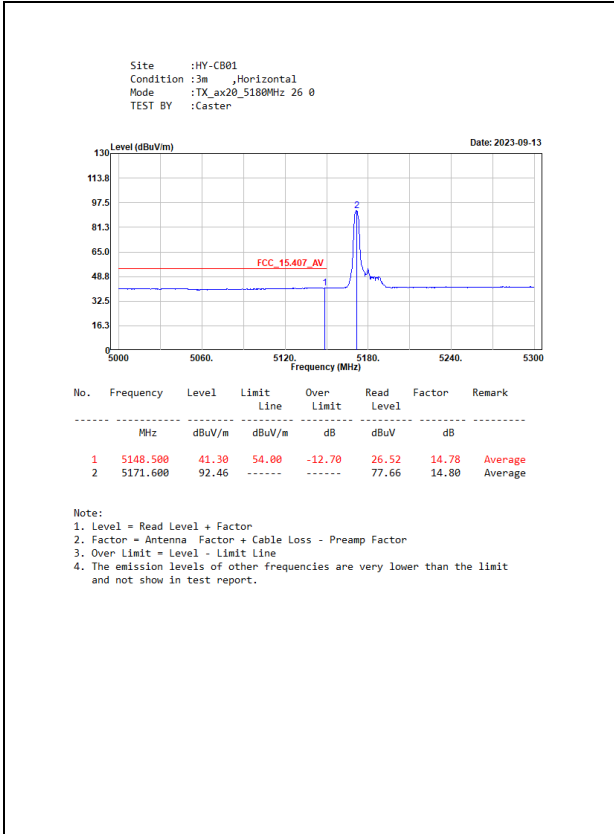


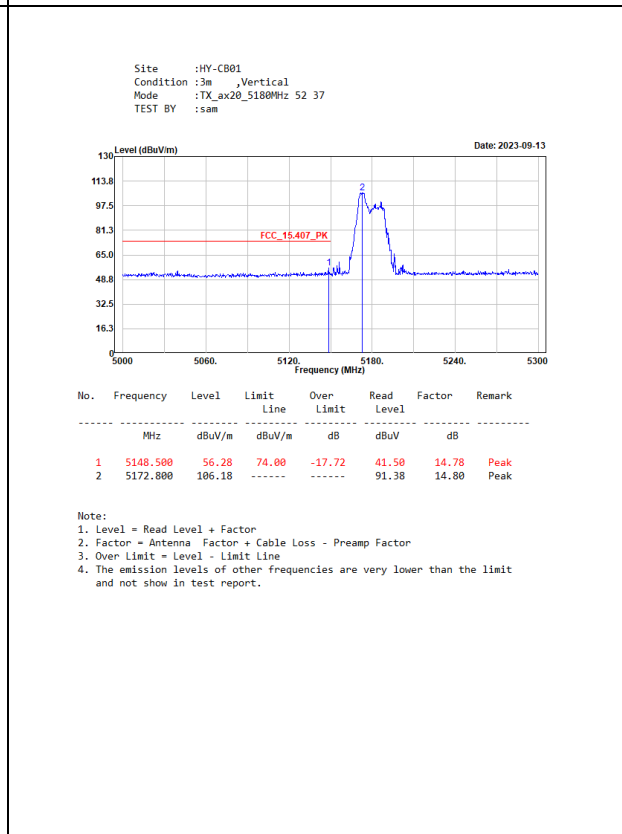
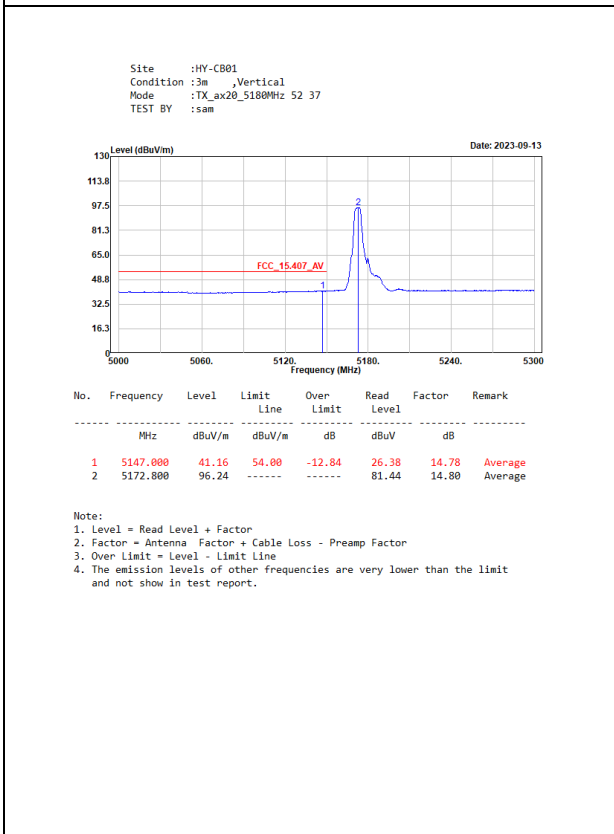
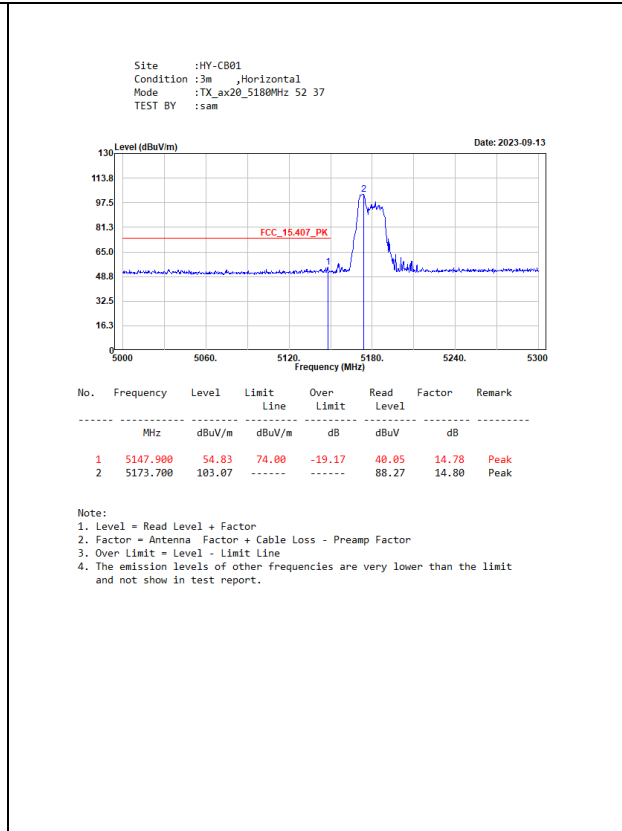
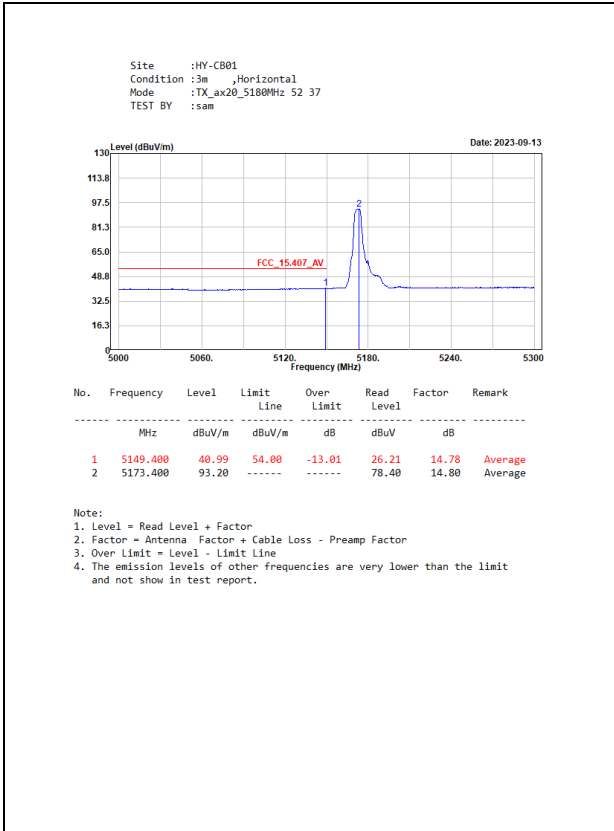


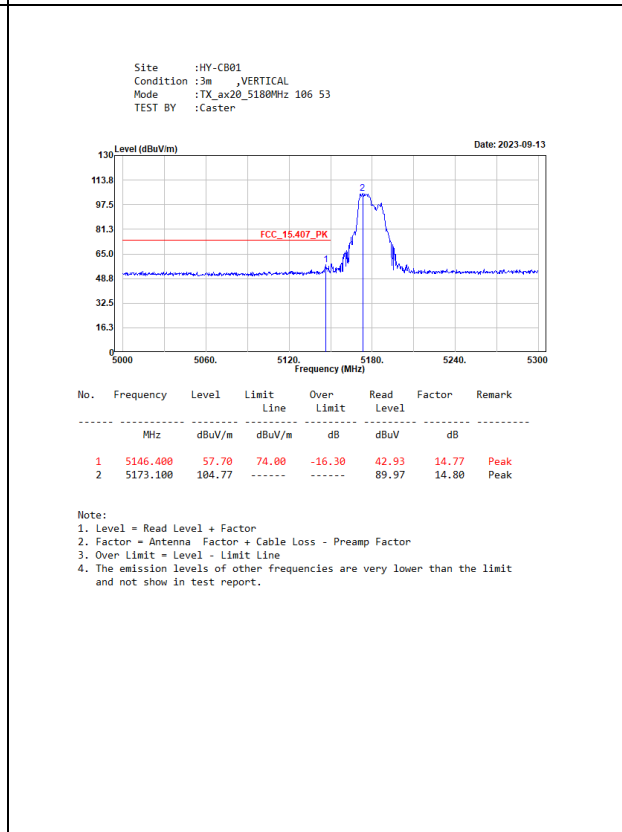
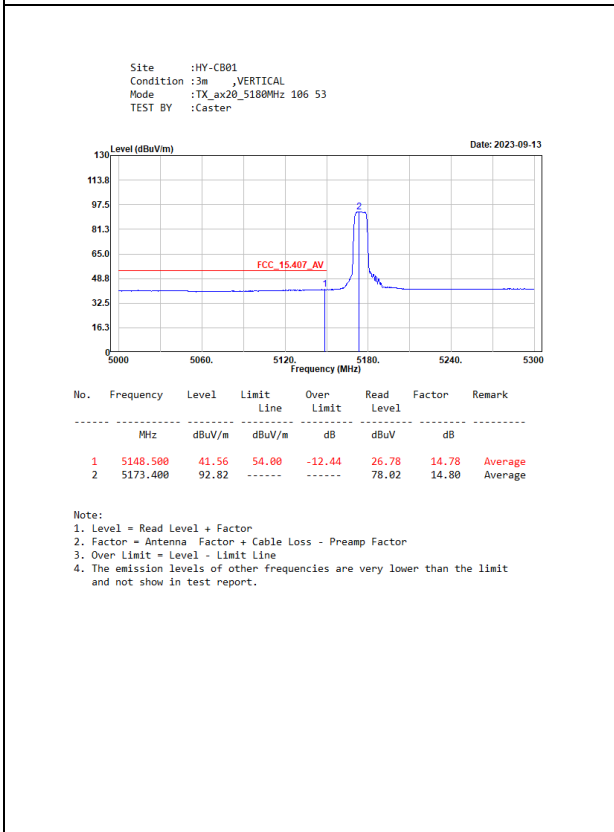
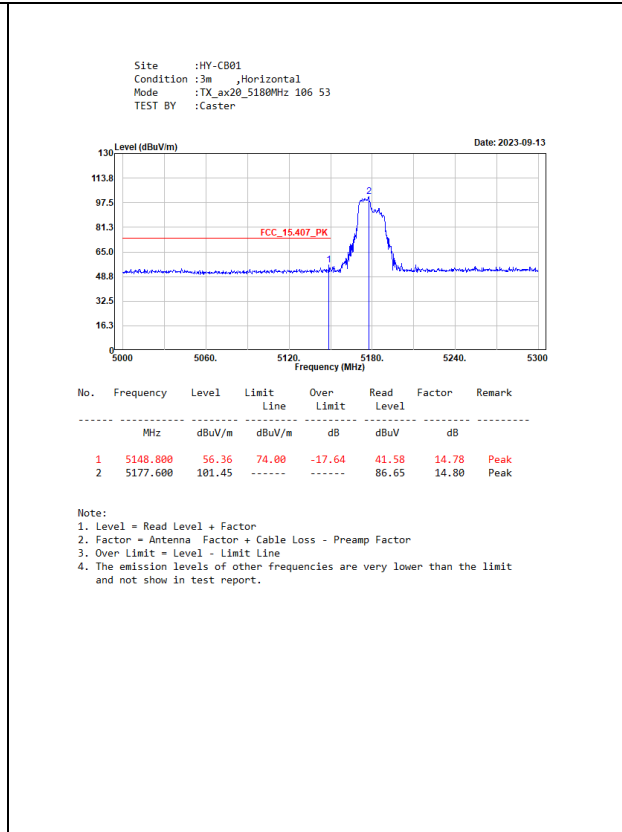
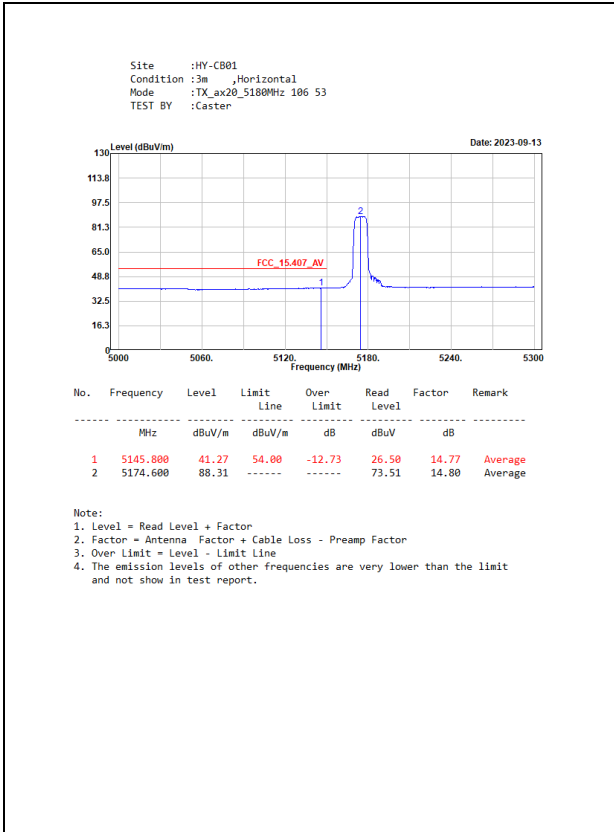


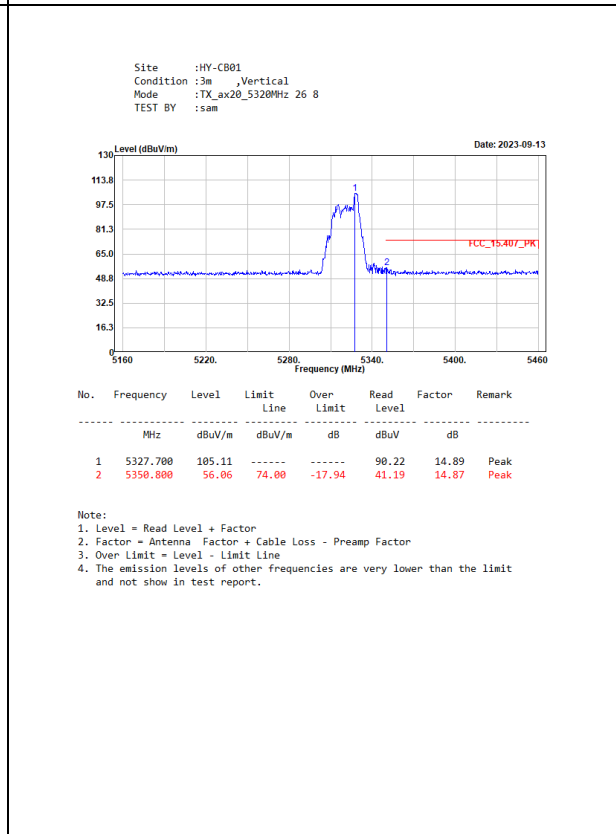
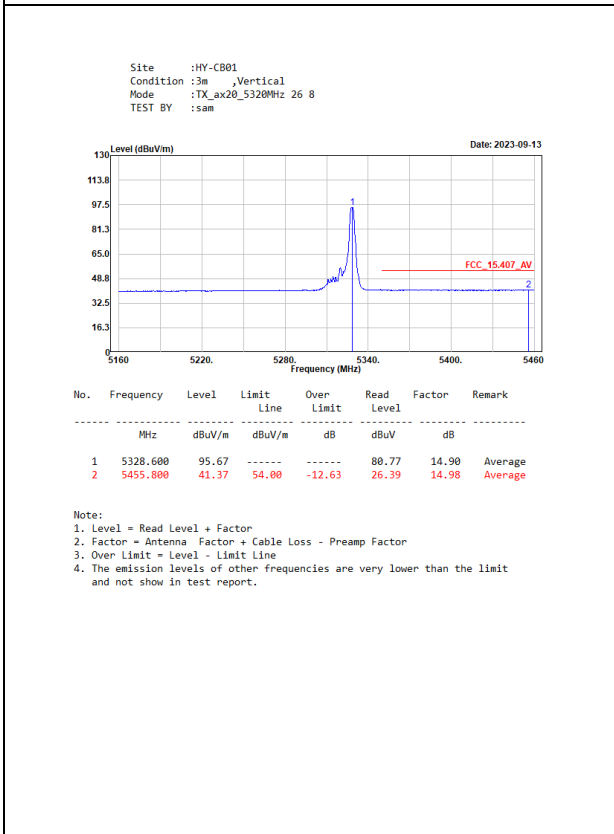
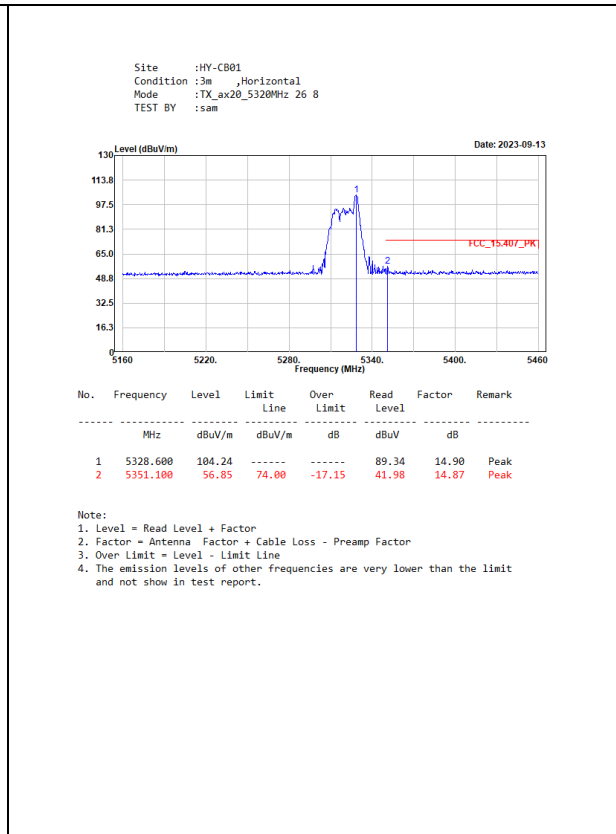
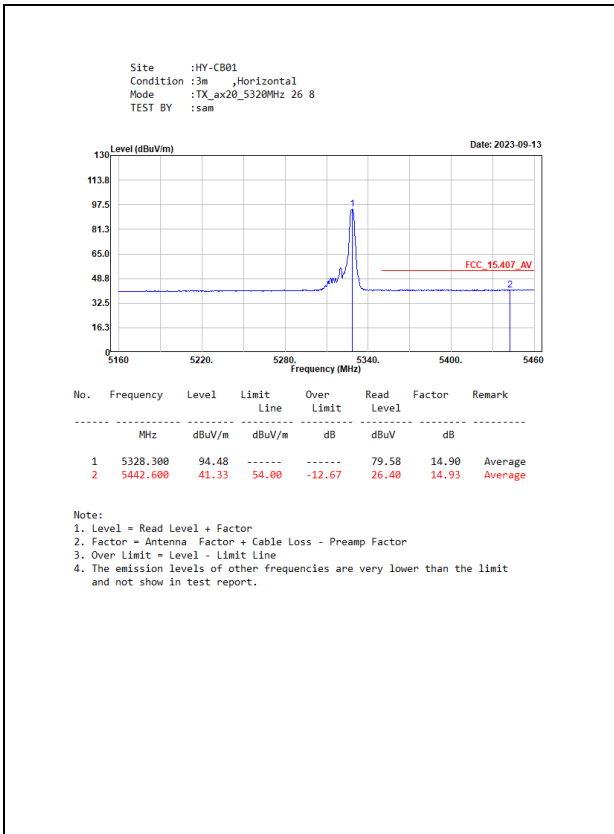


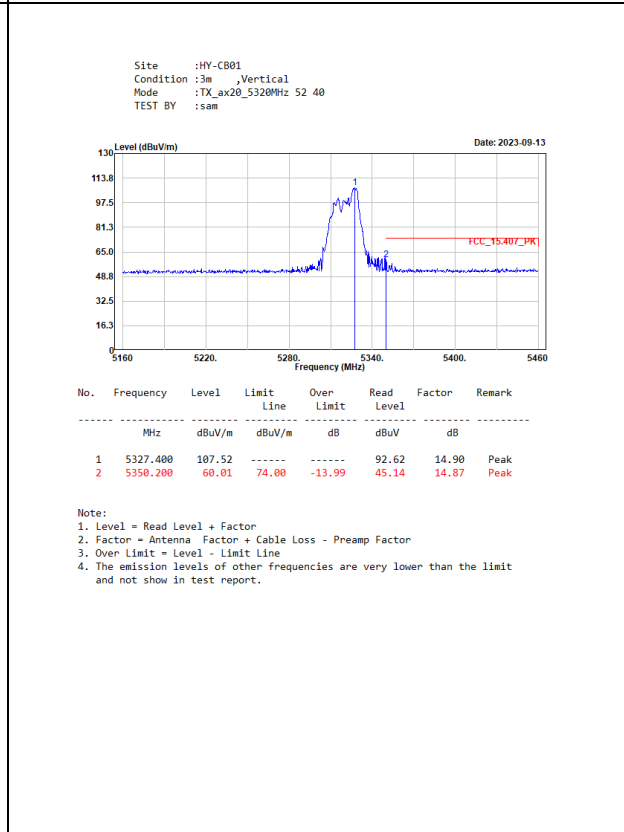
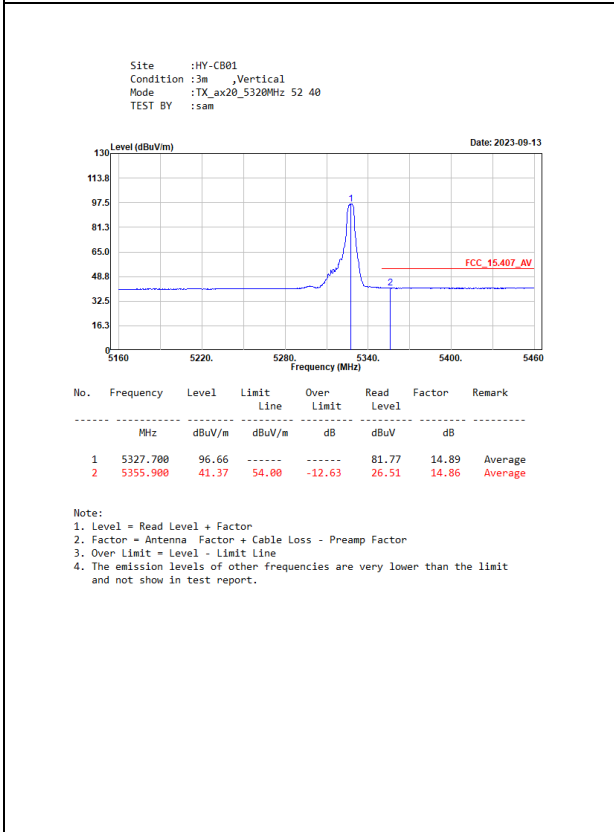
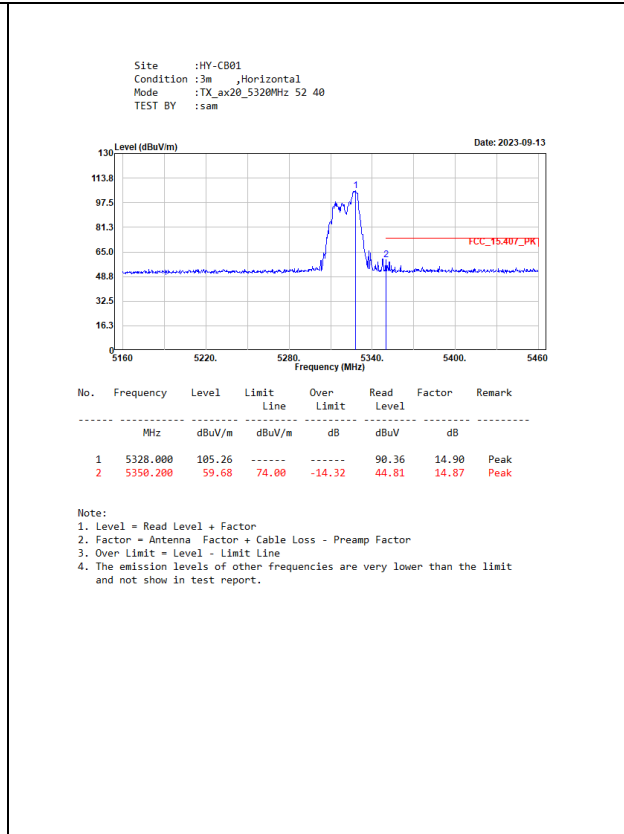
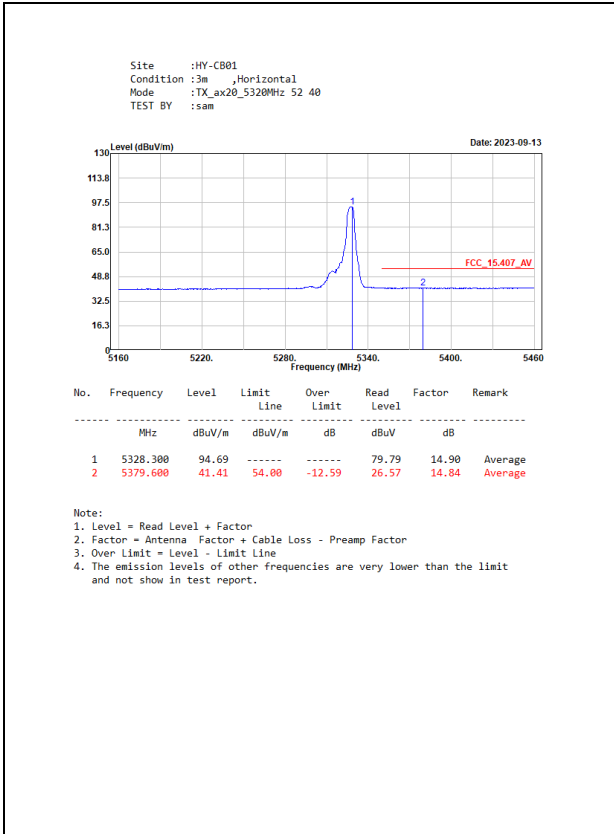
Partial RU-MIMO

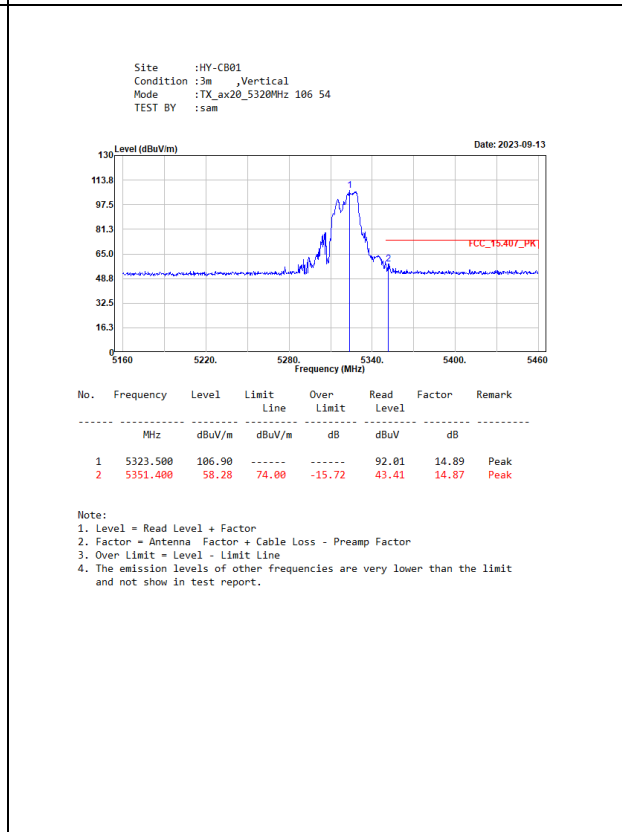
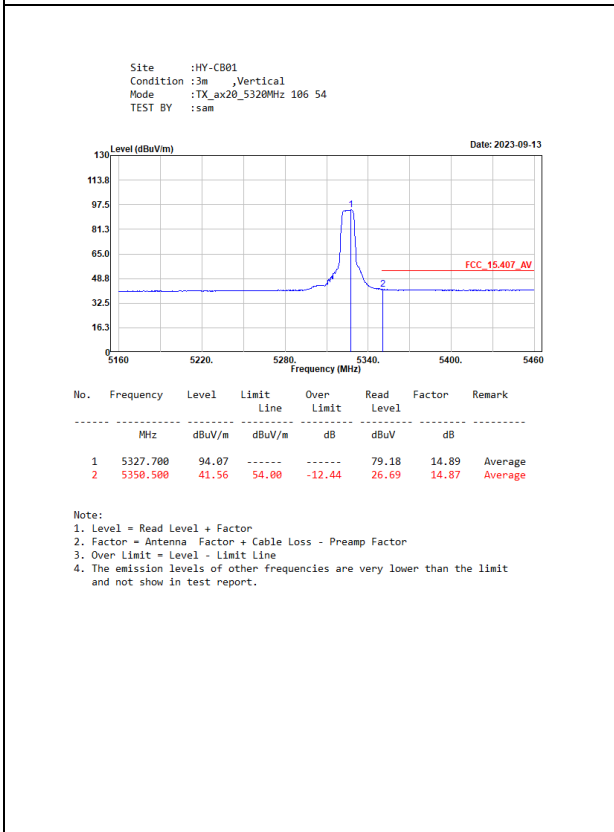
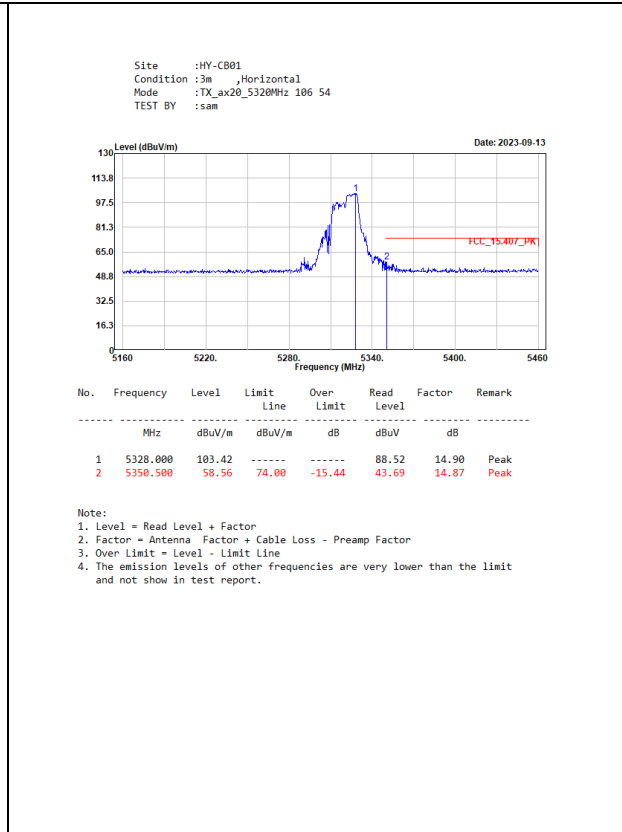
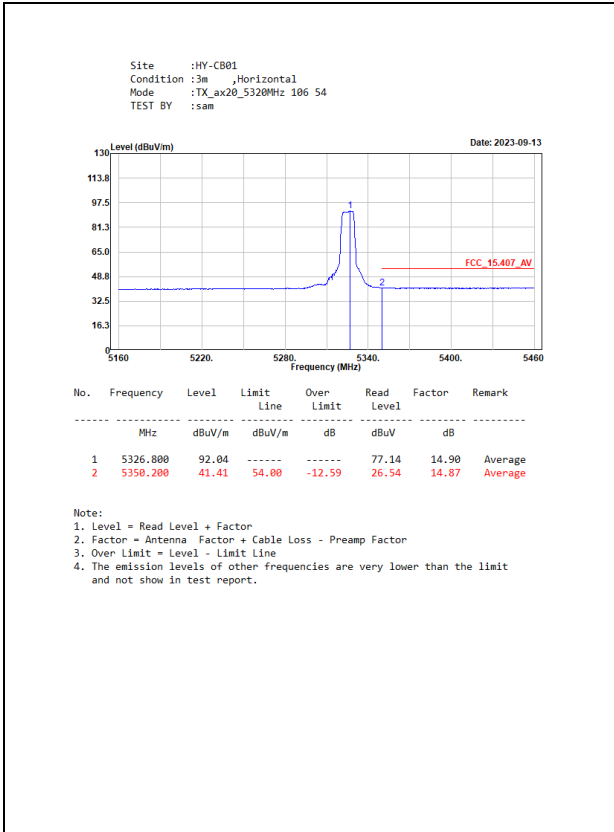


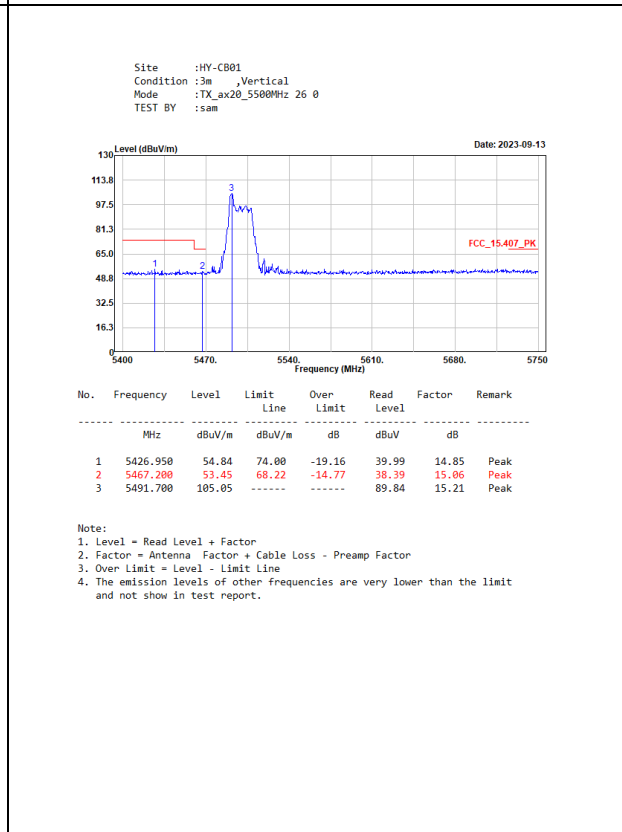
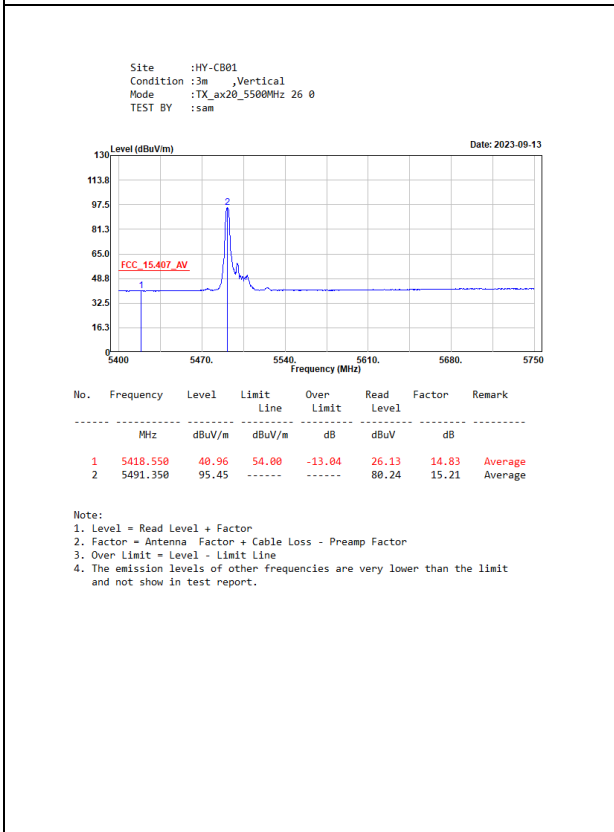
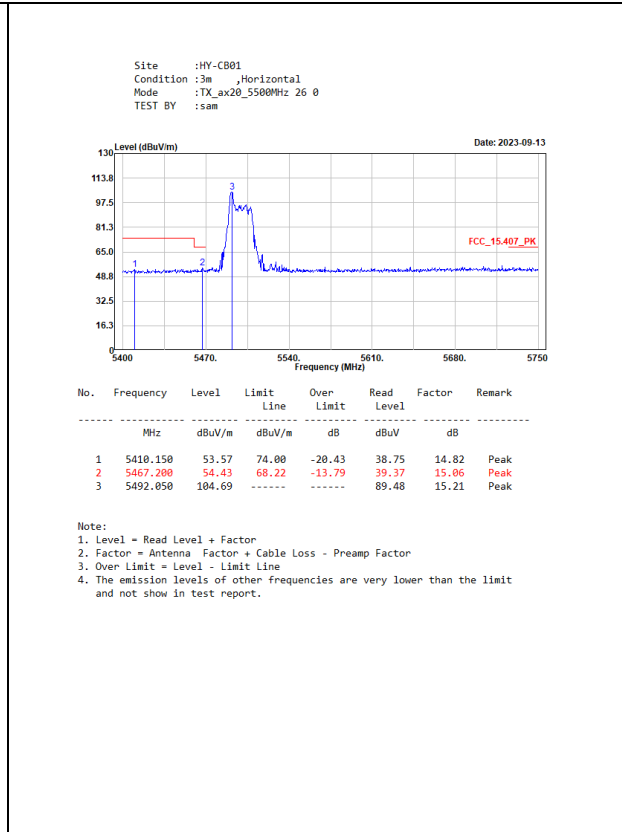
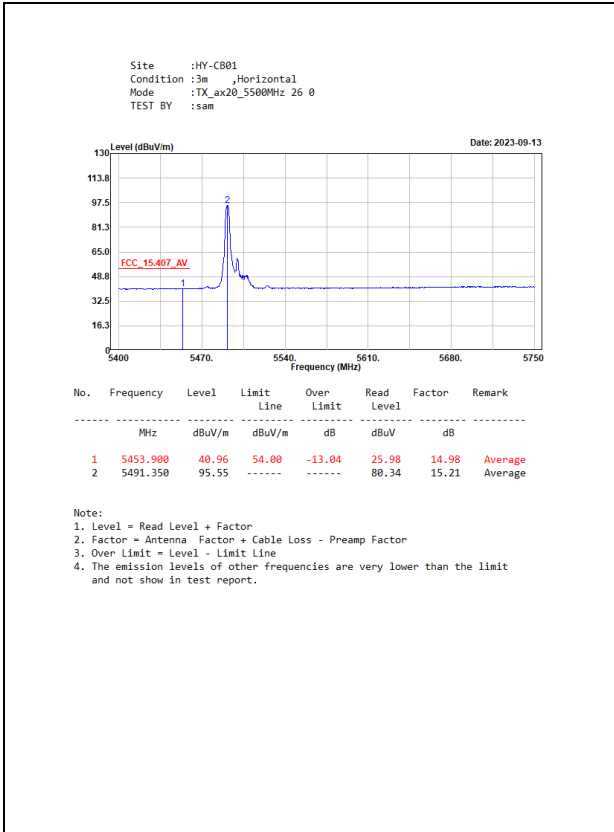


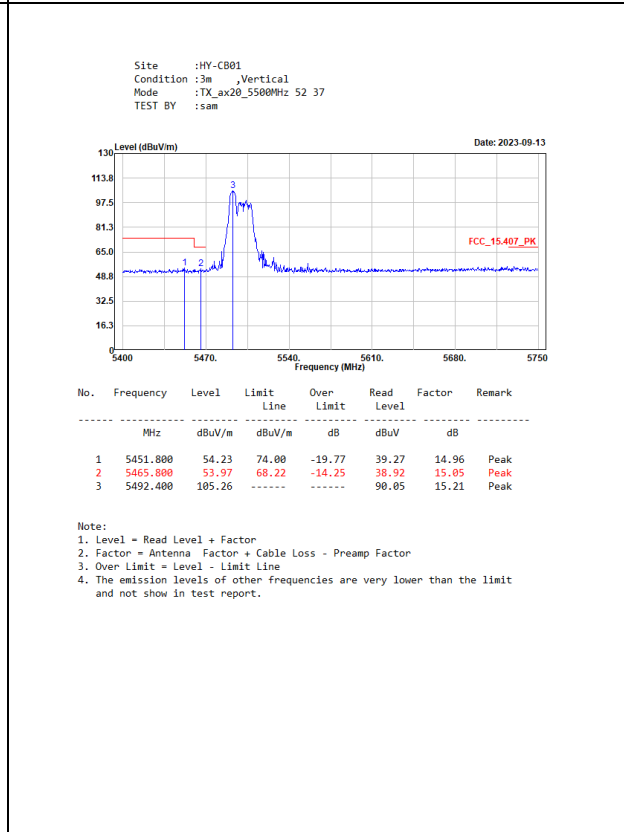
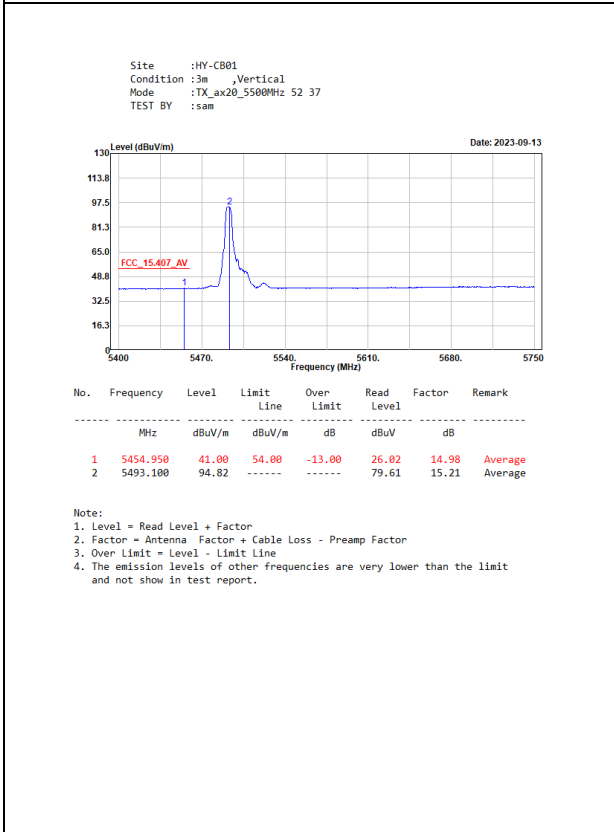
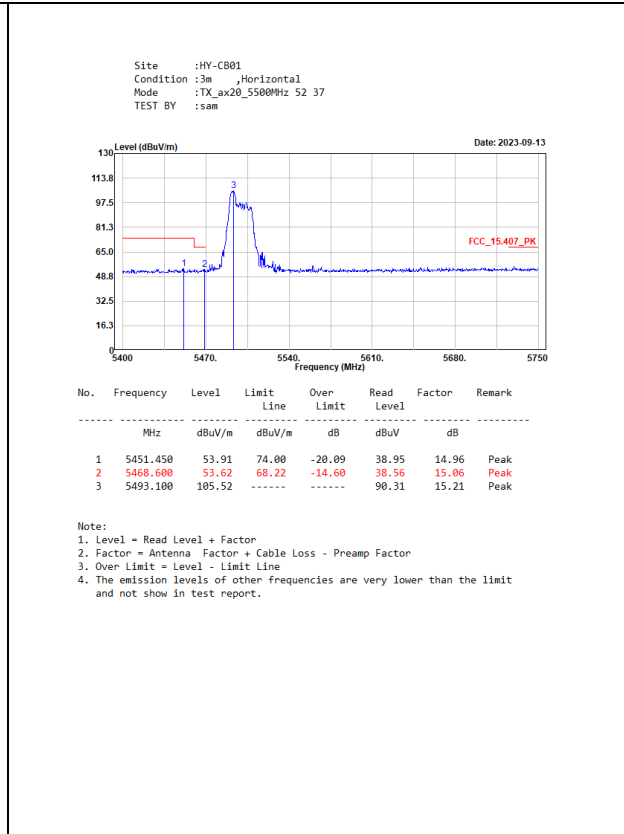
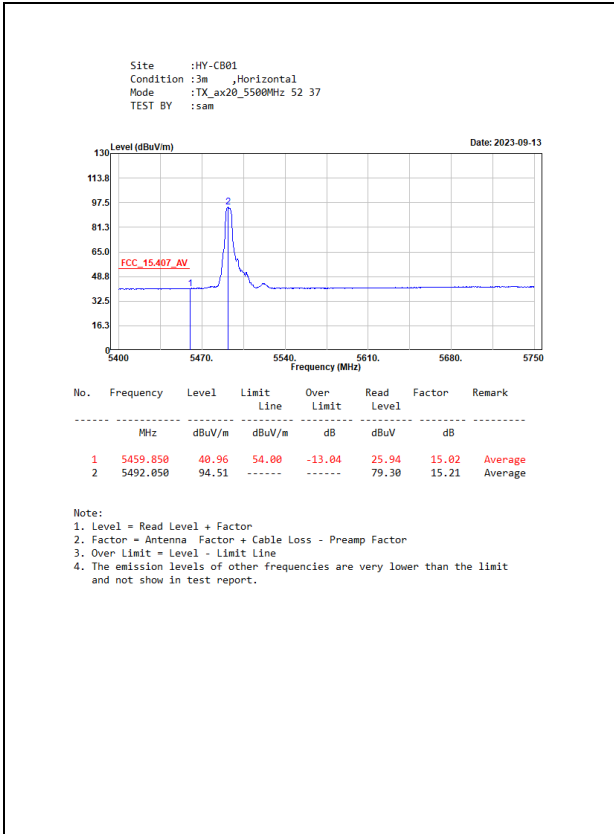


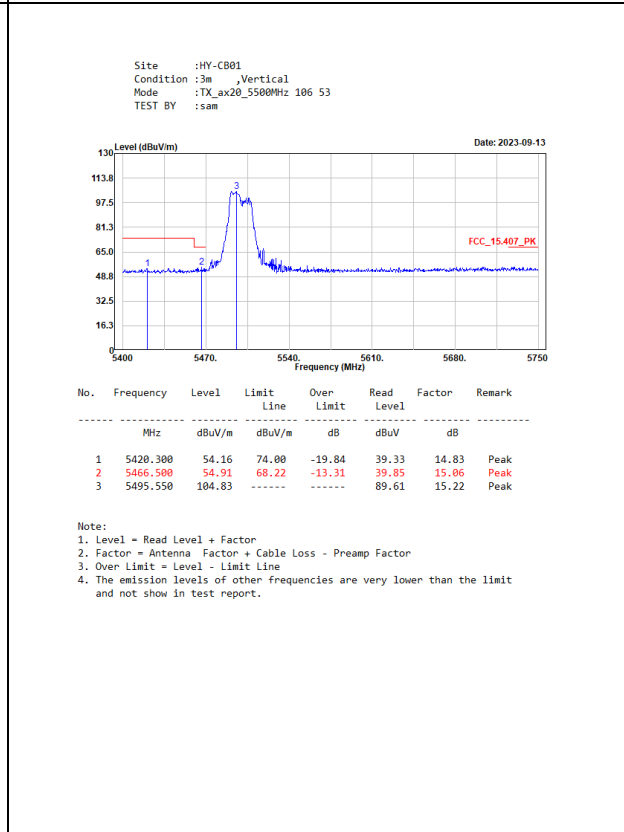
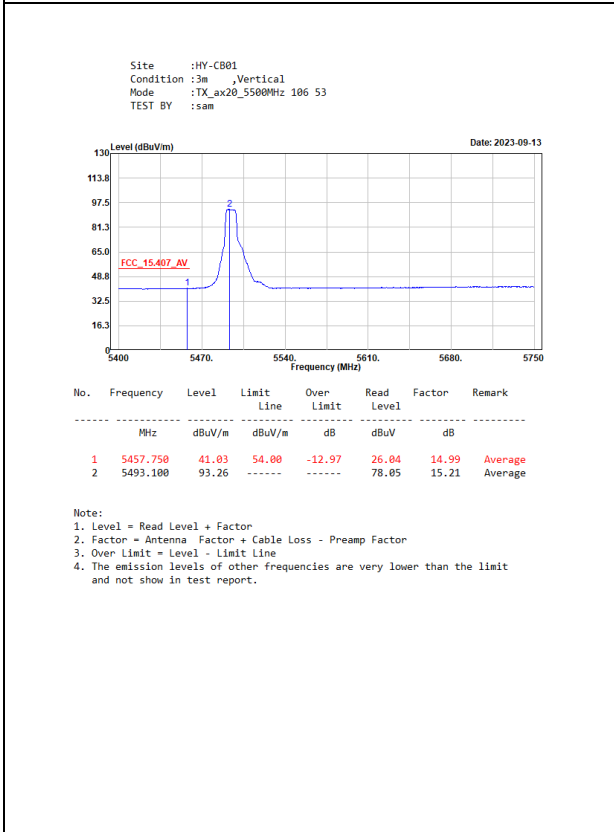
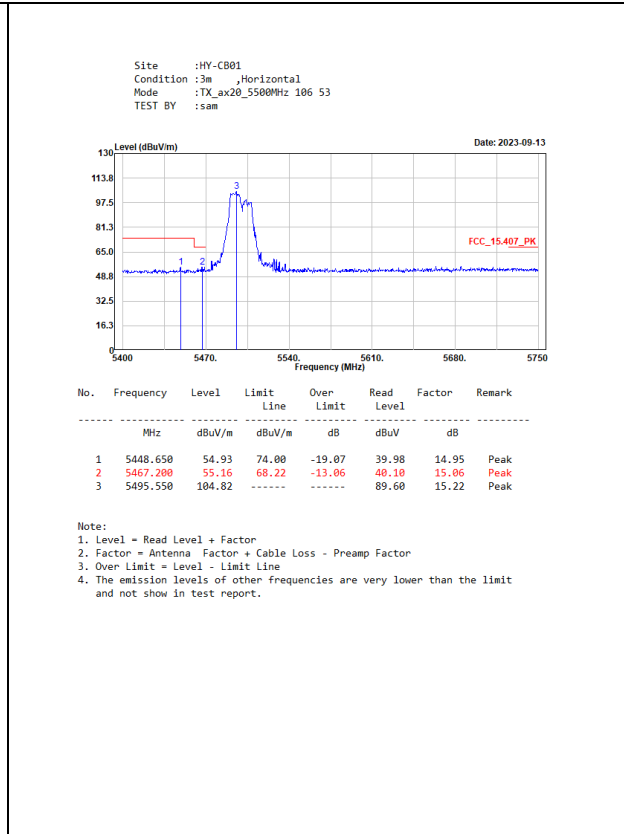
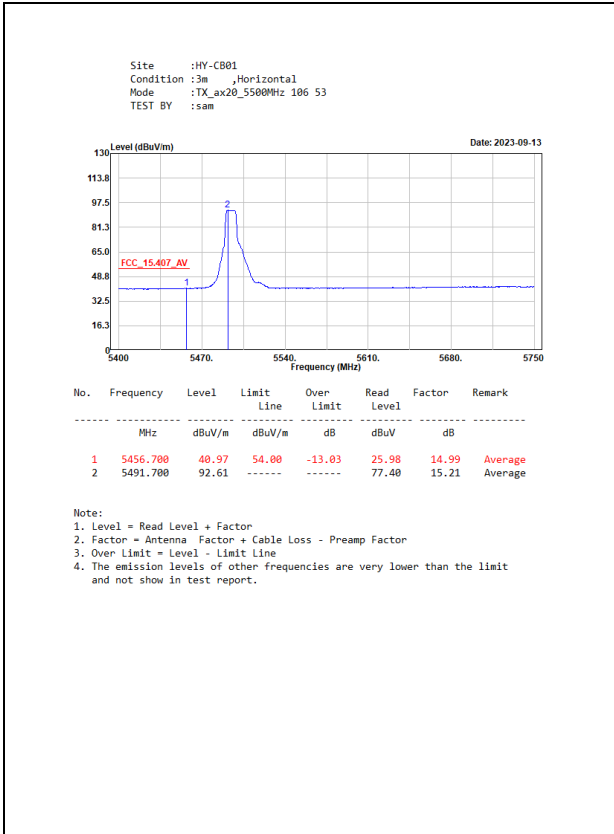


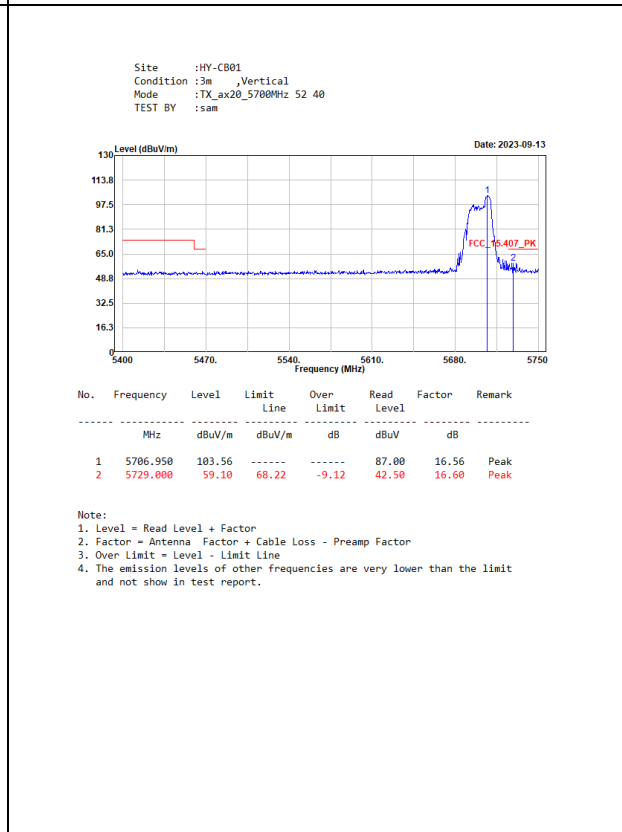
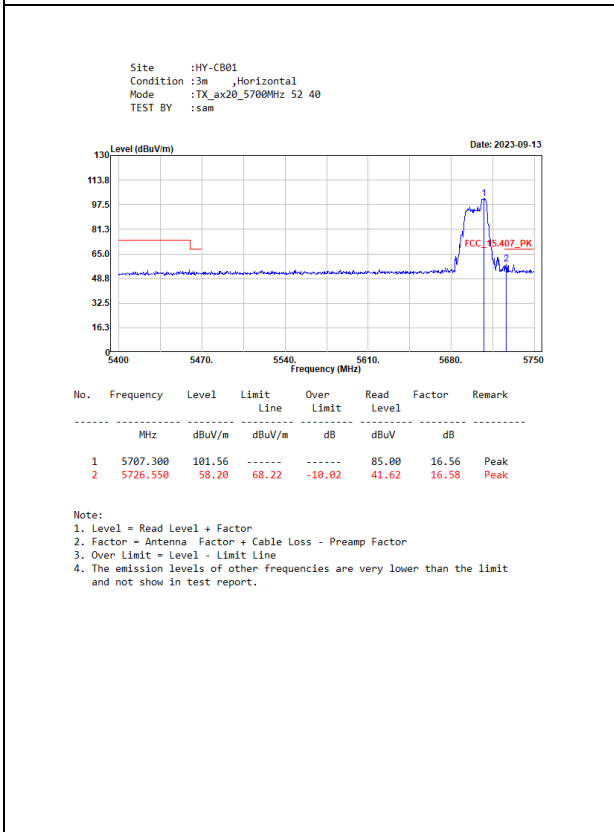
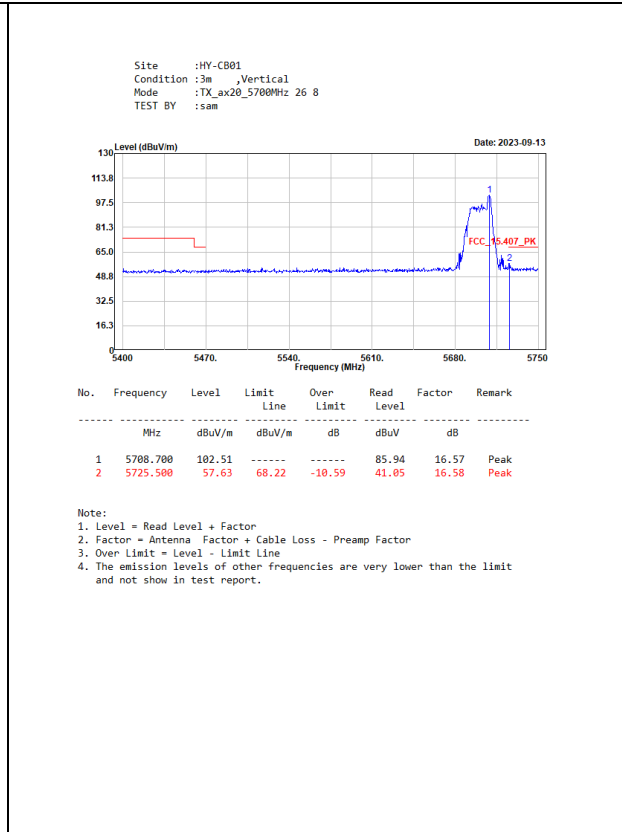
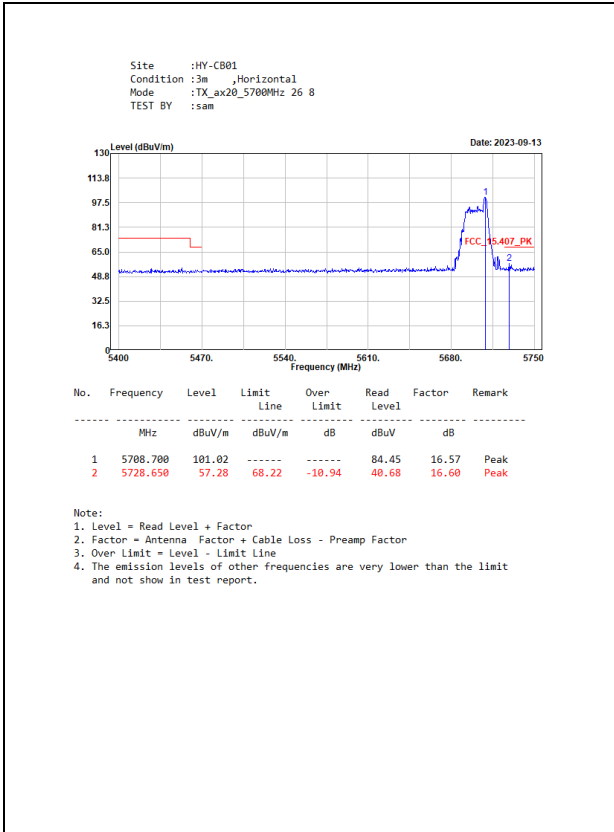


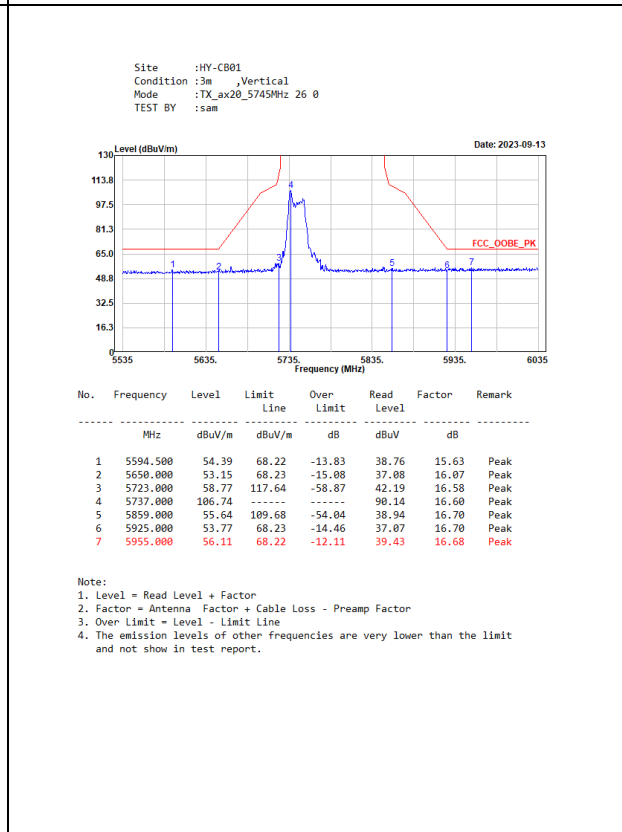
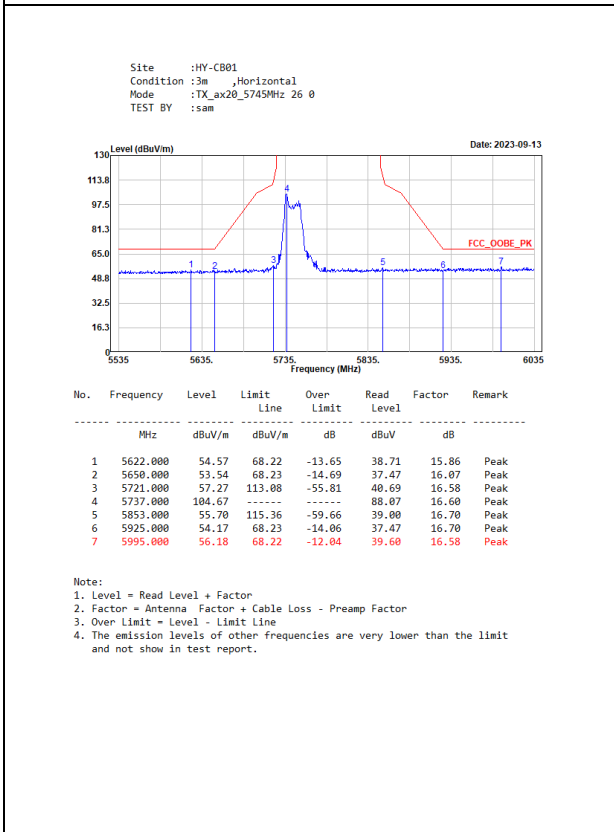
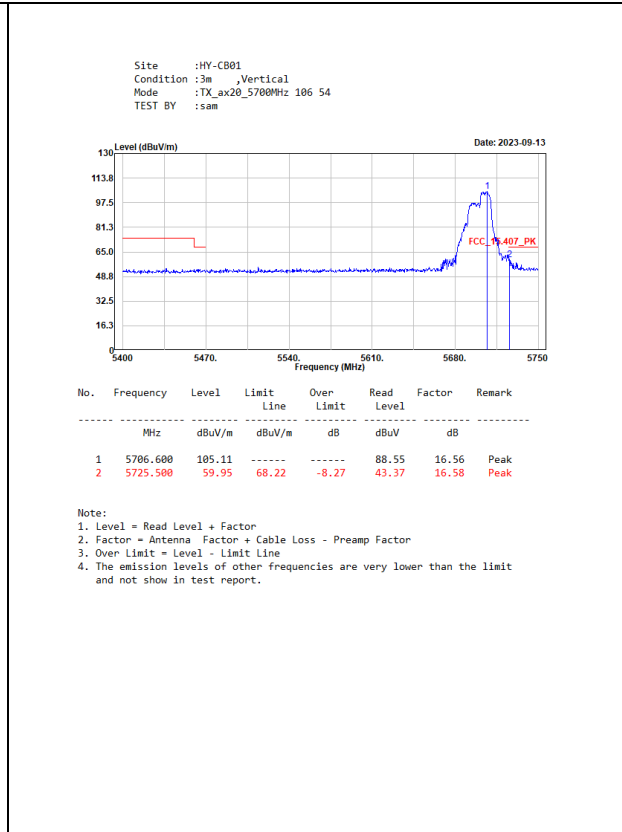
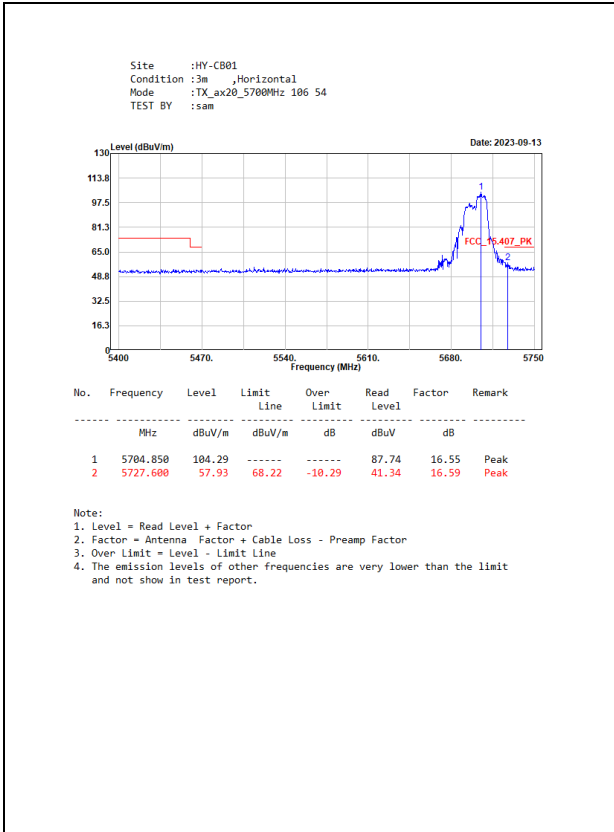


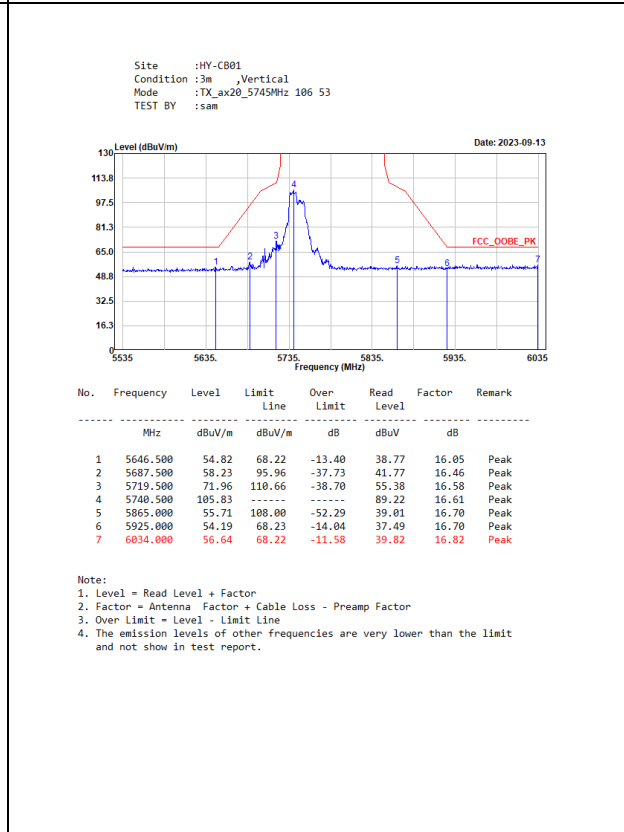
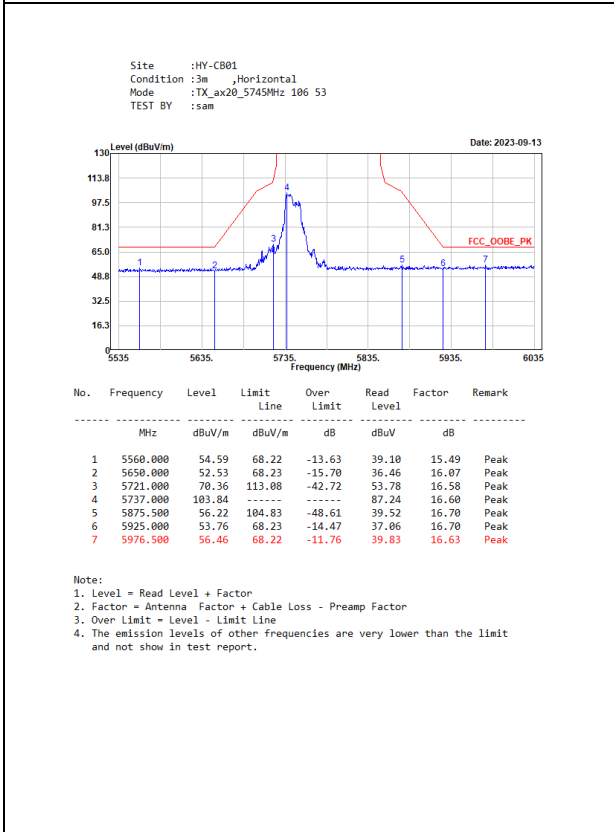
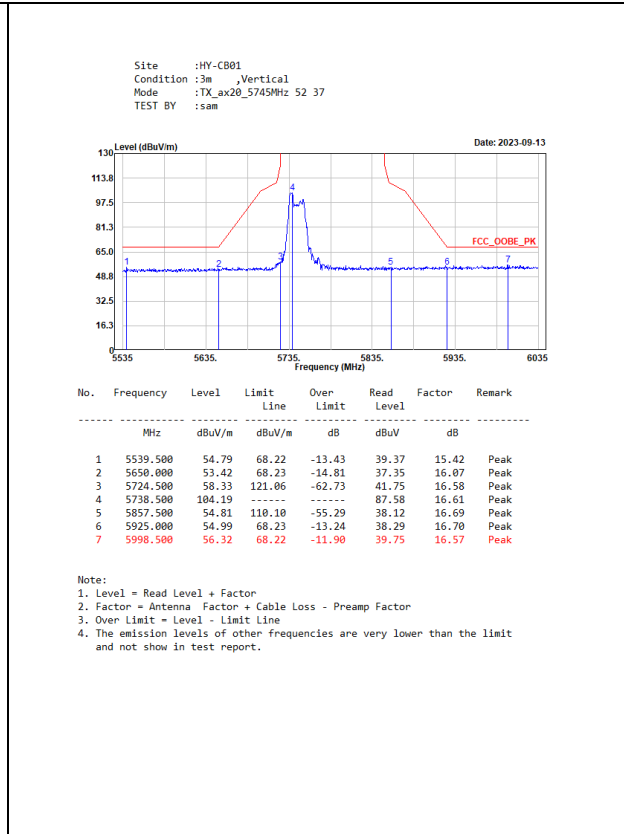
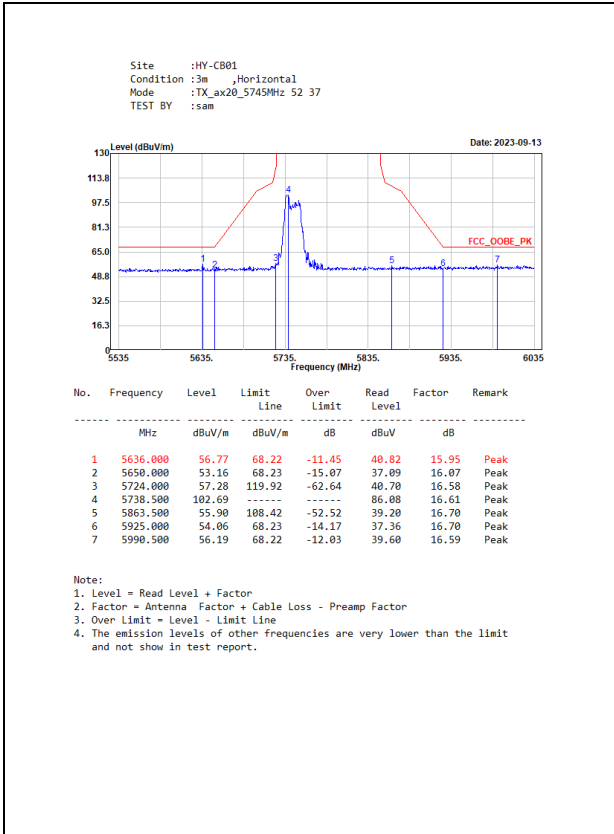


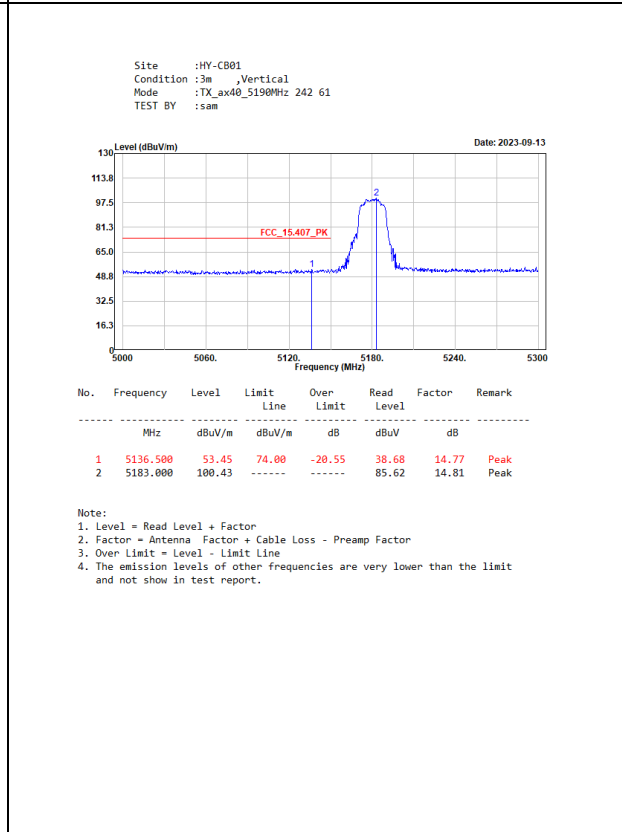
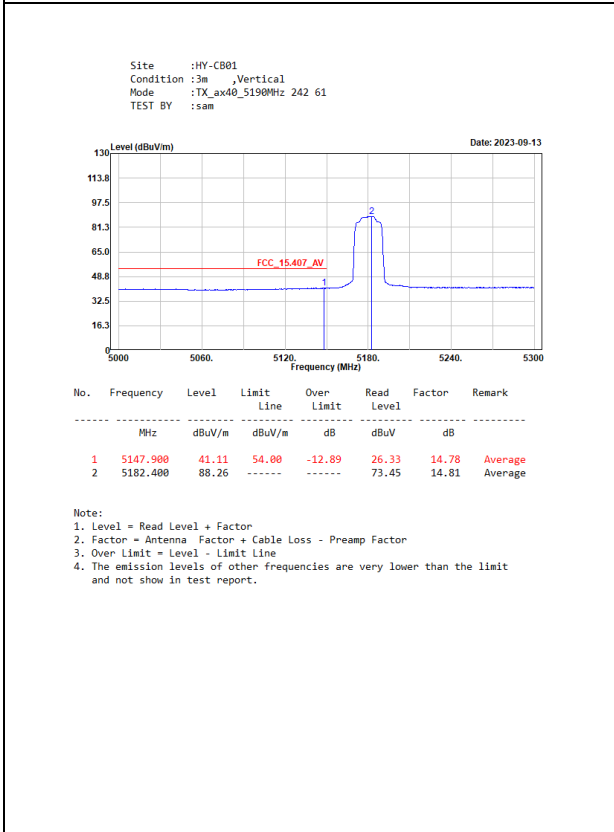
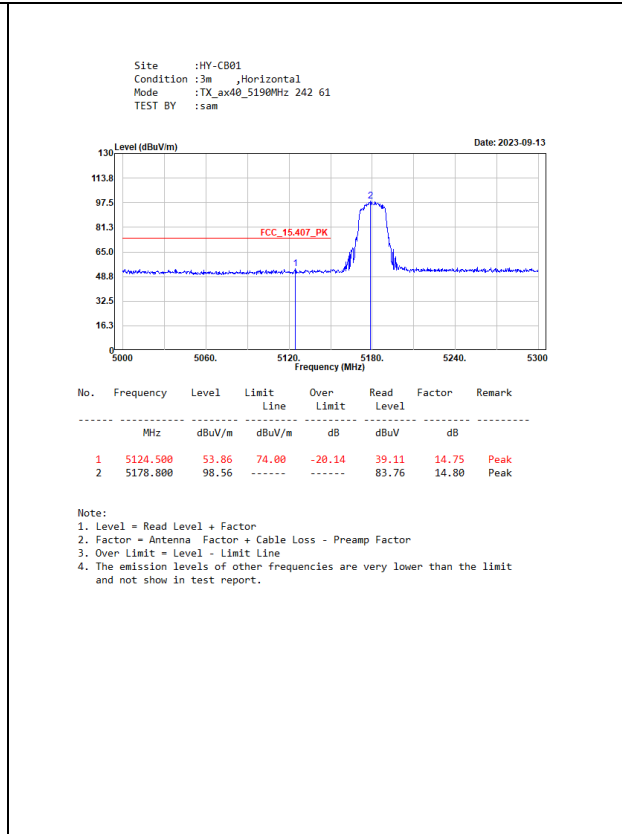
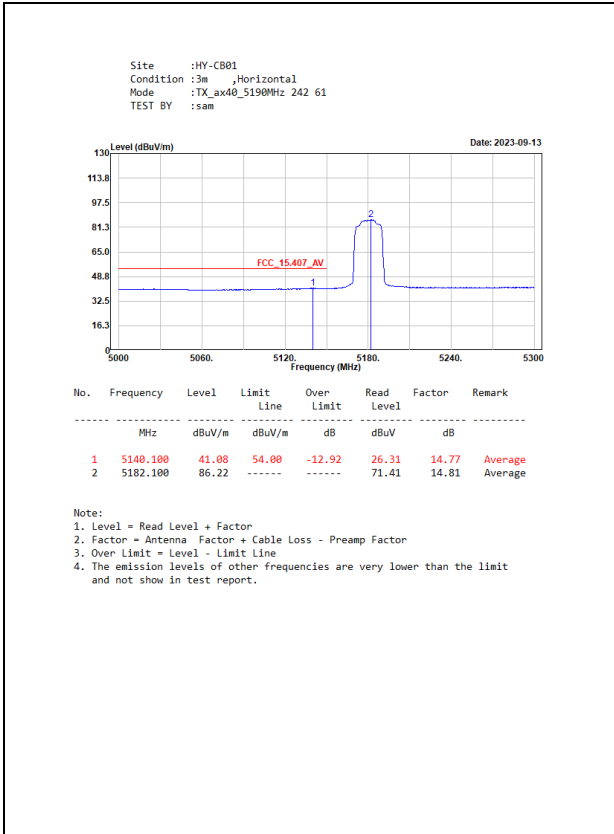


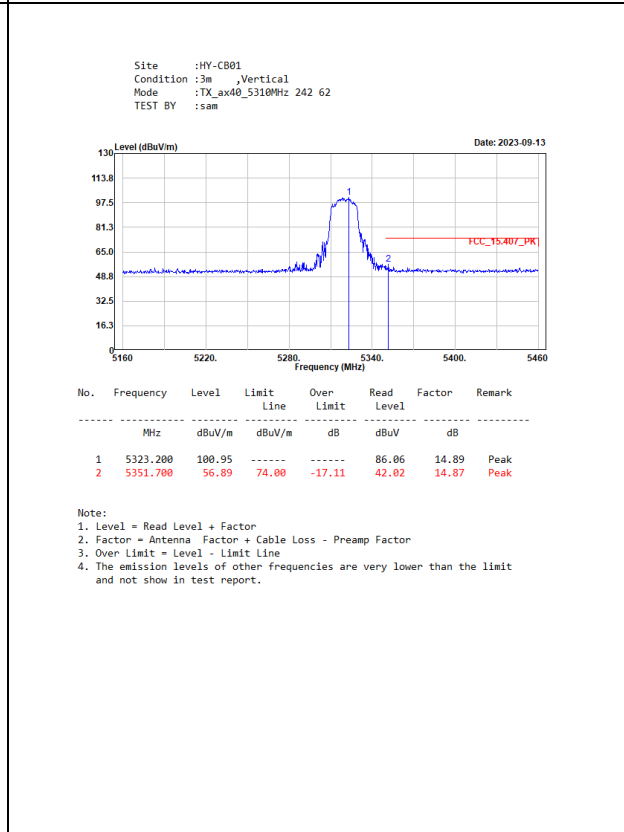
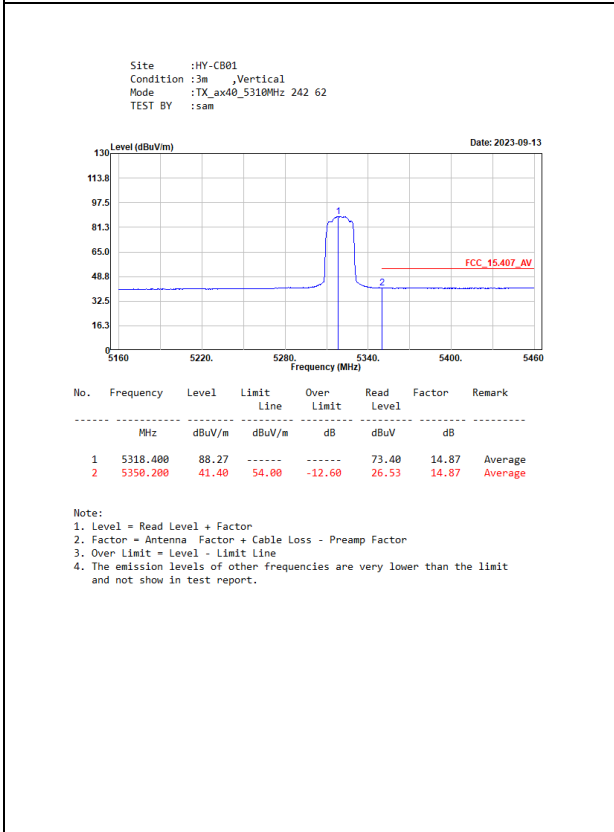
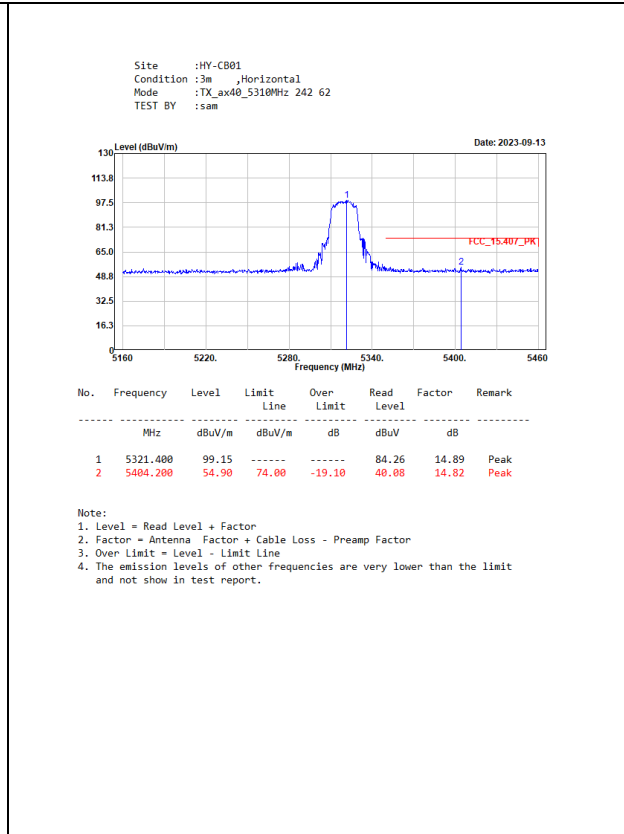
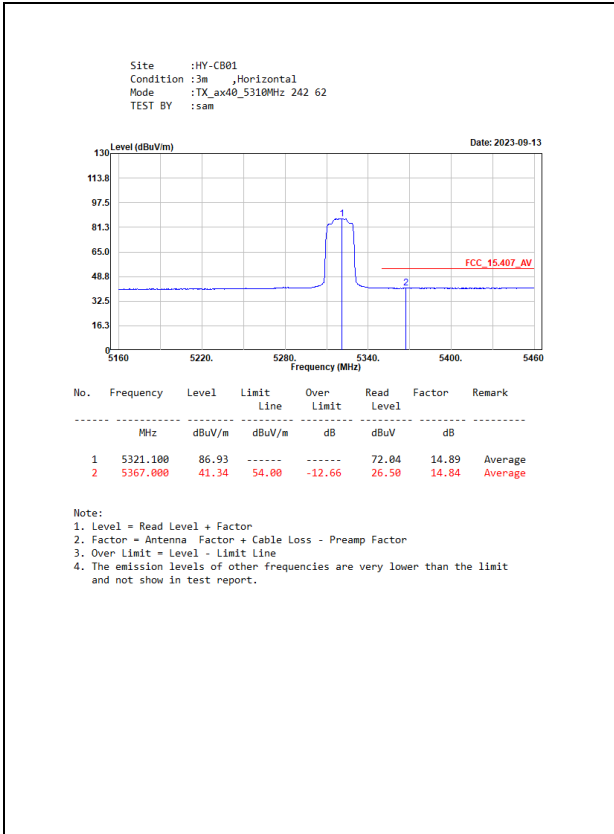


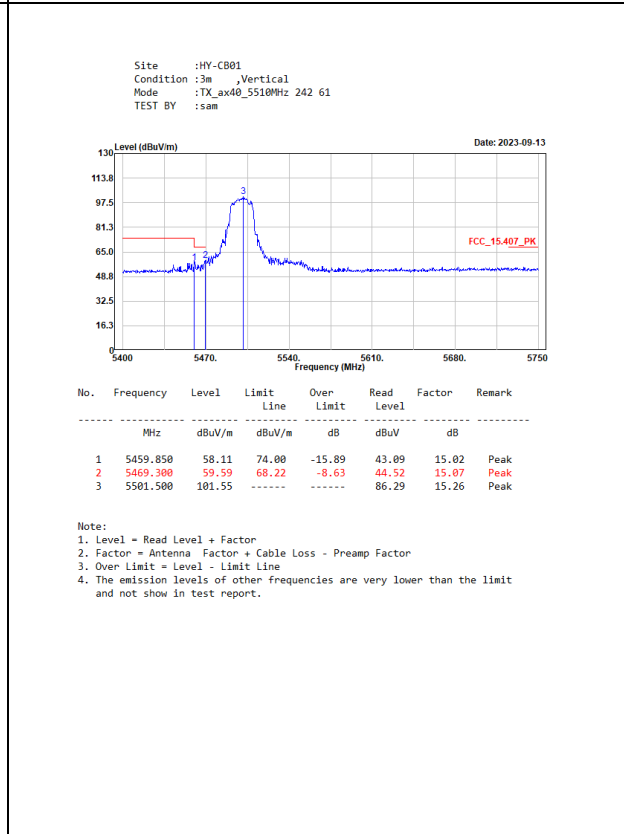
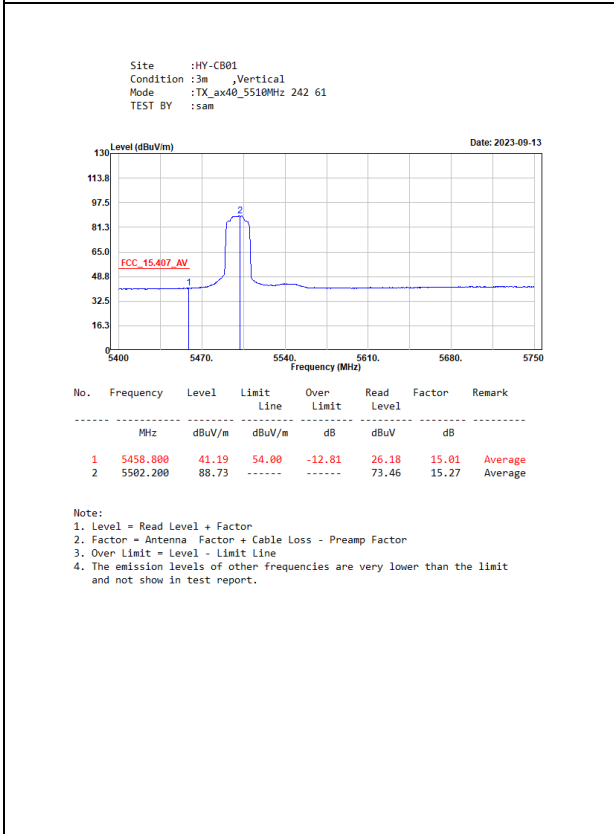
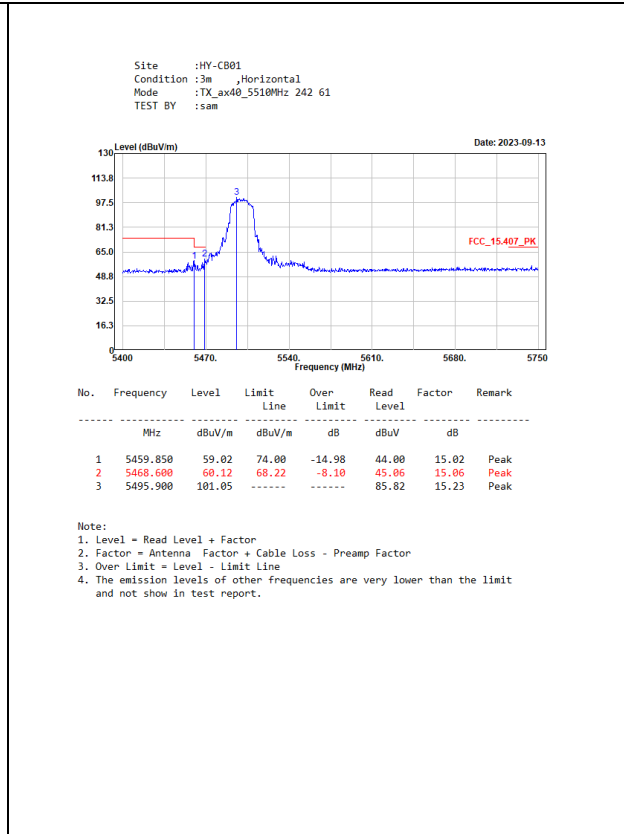
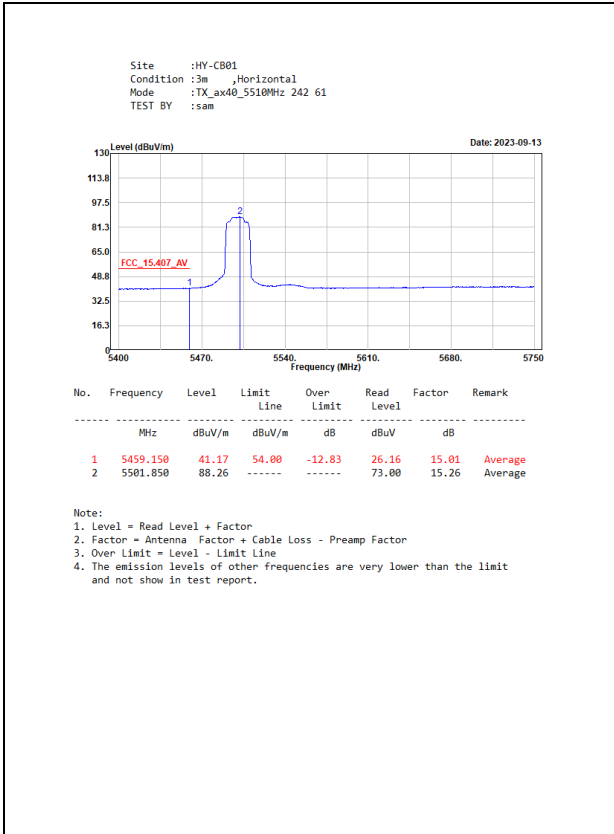


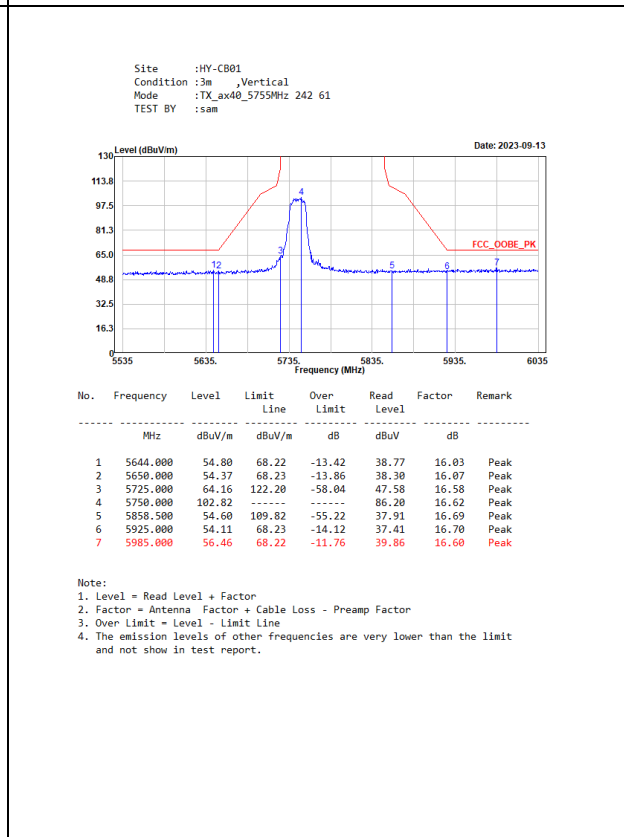
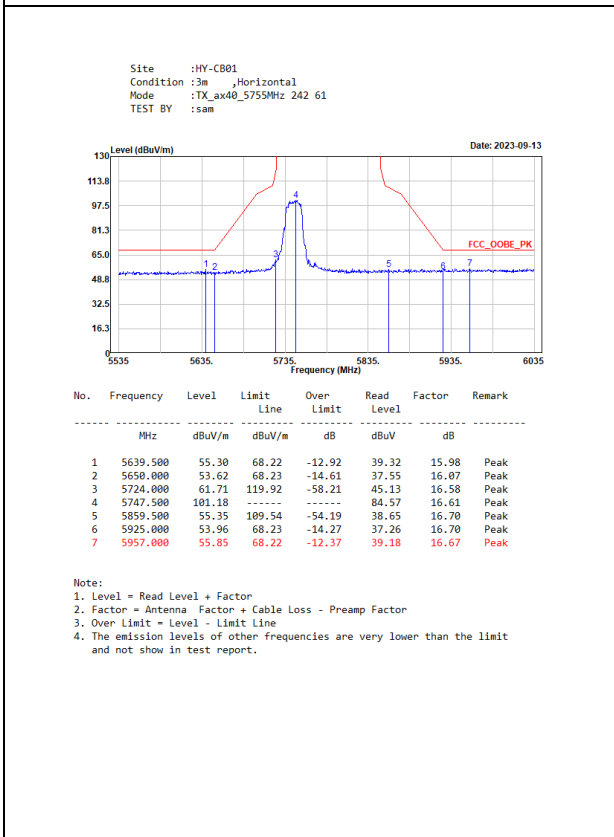
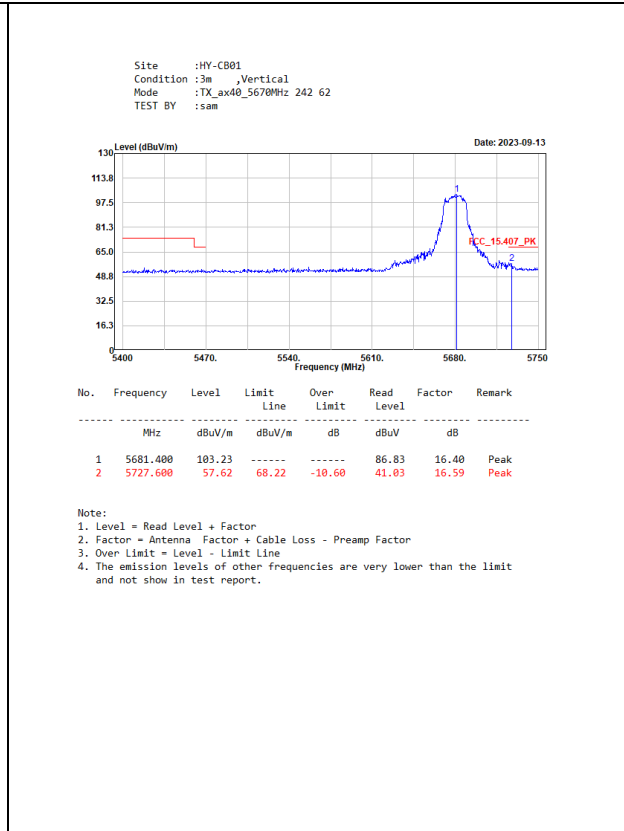
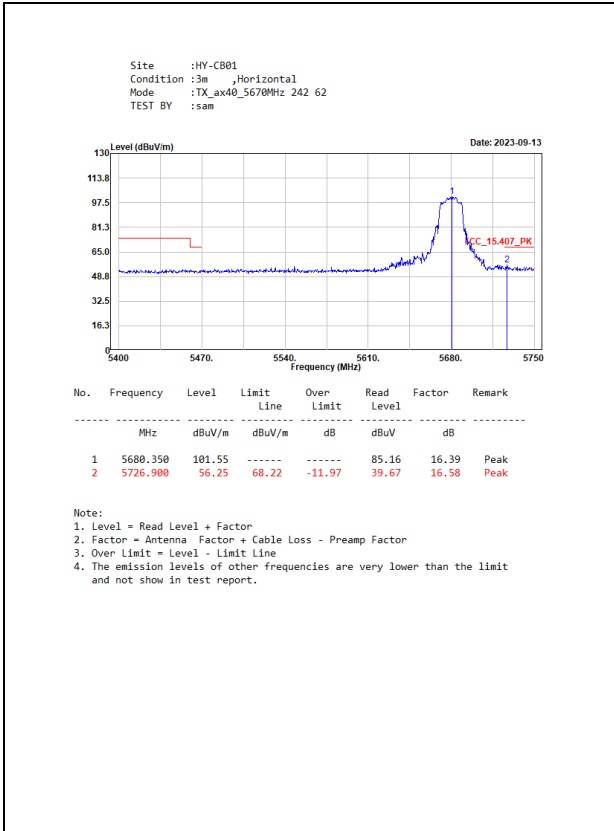


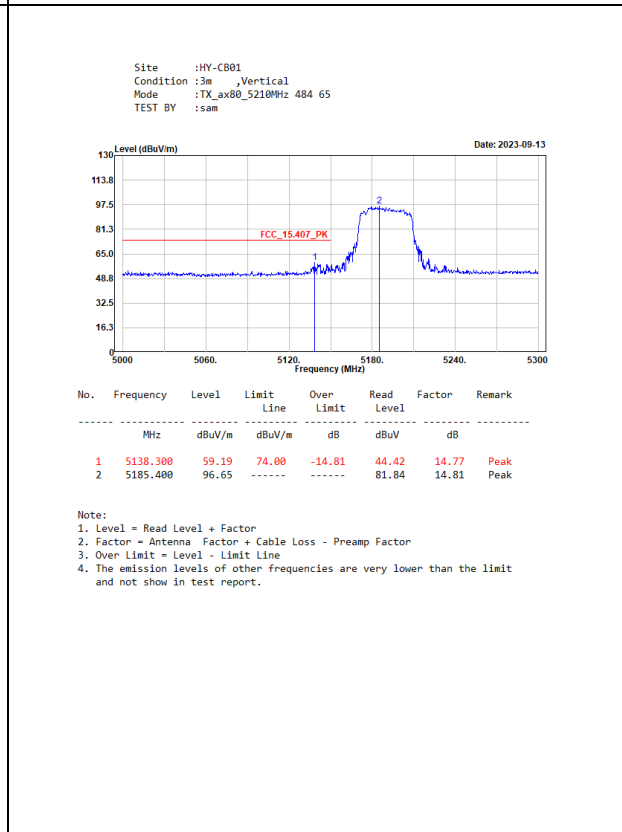
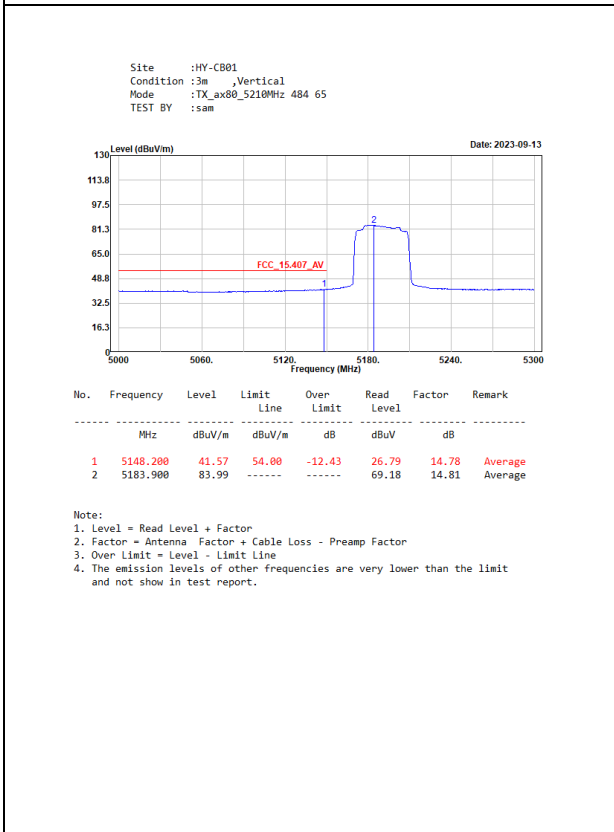
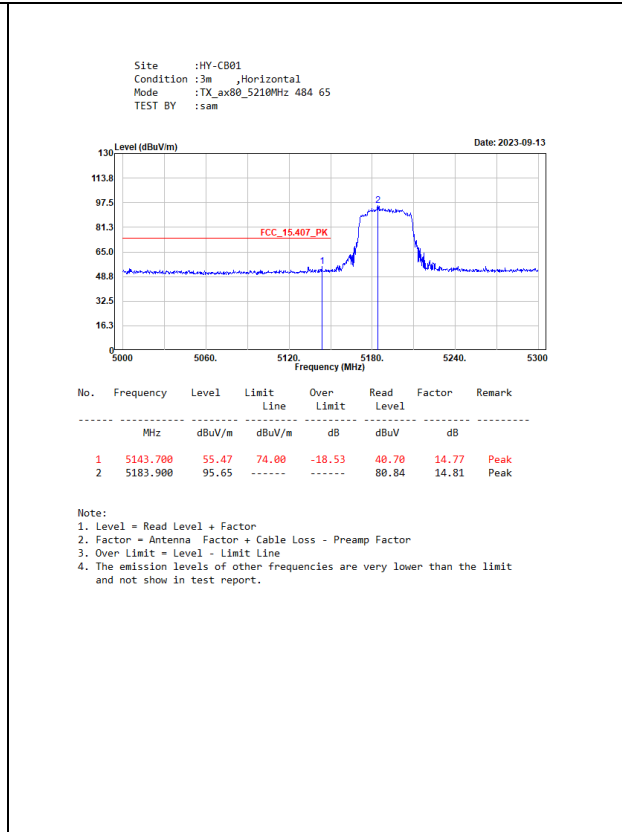
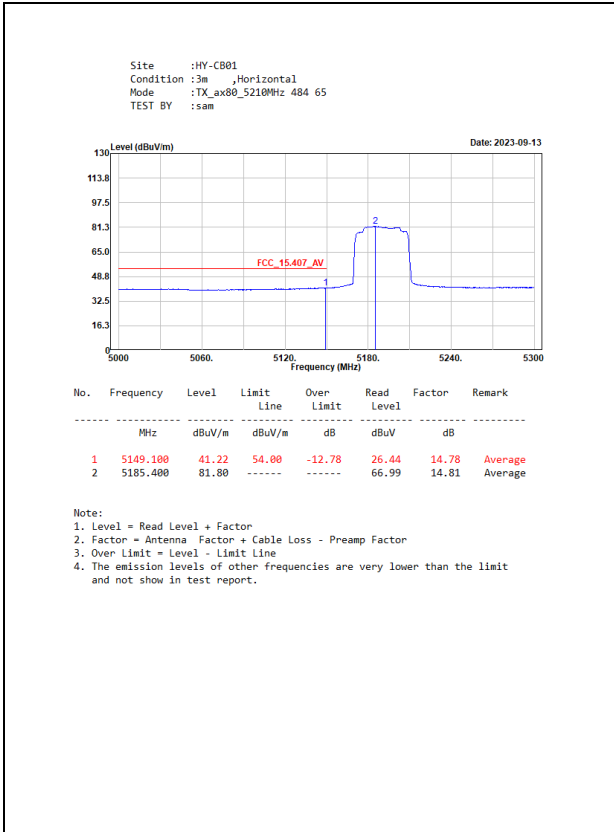


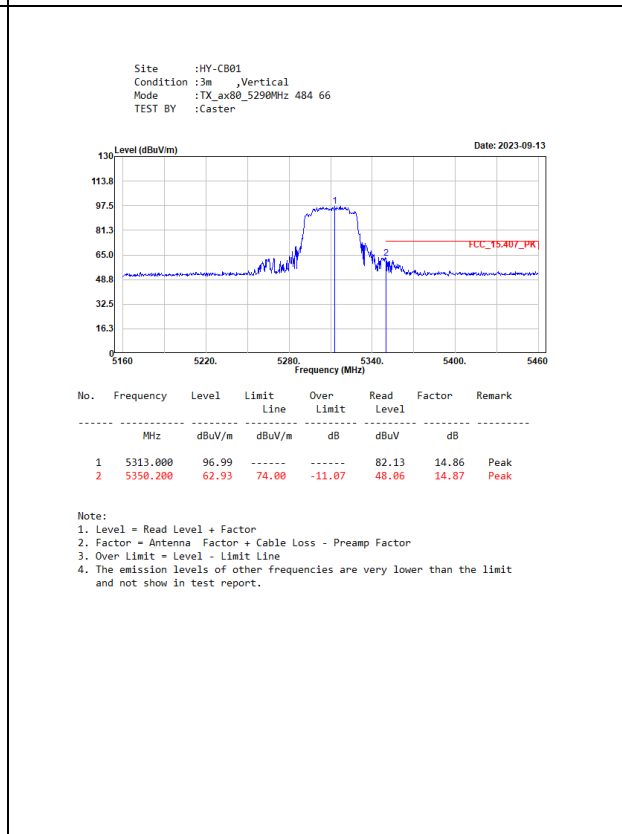
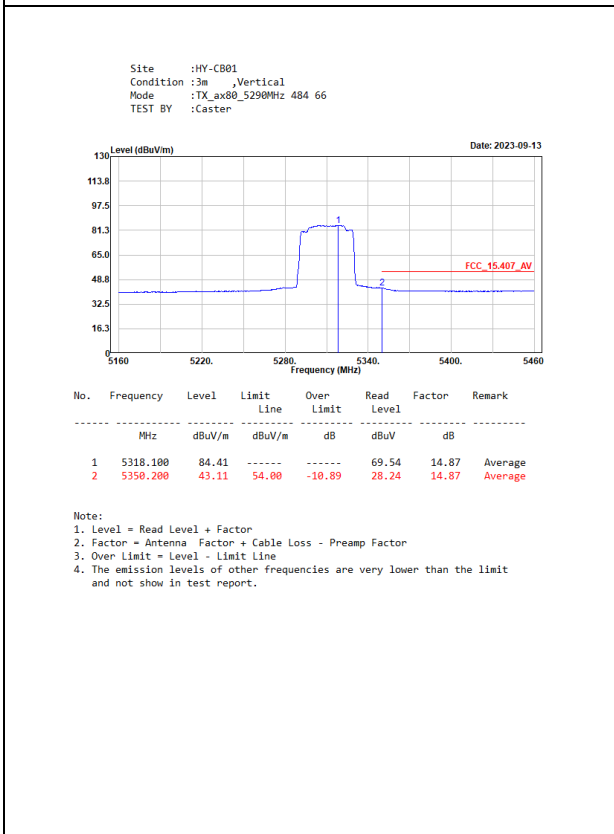
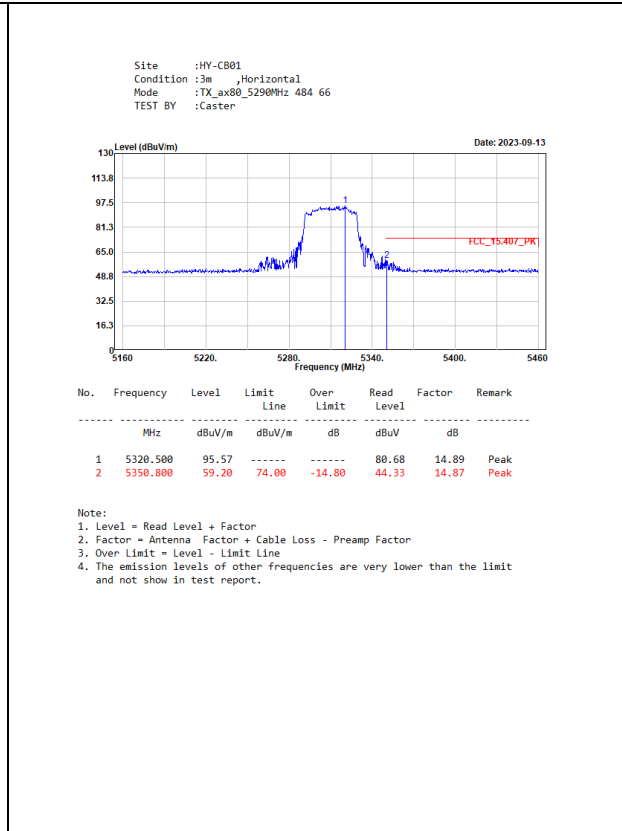
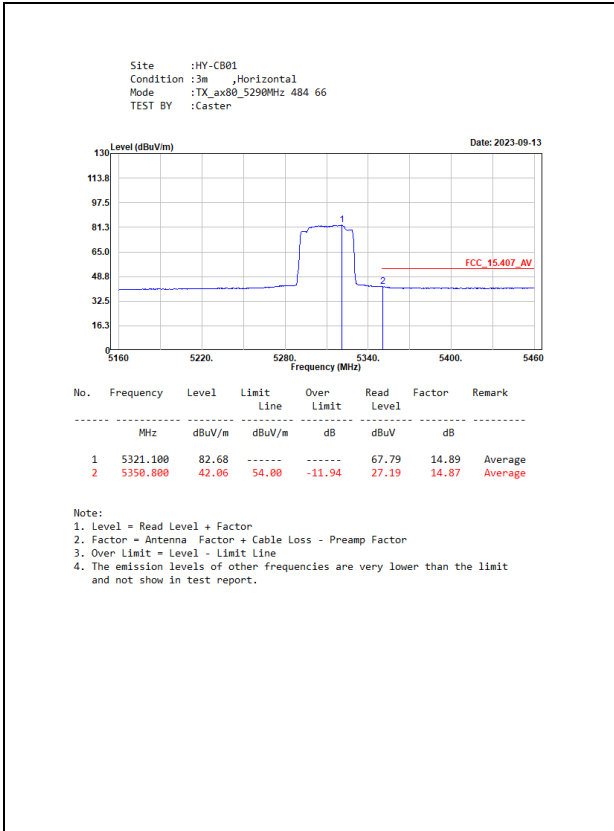


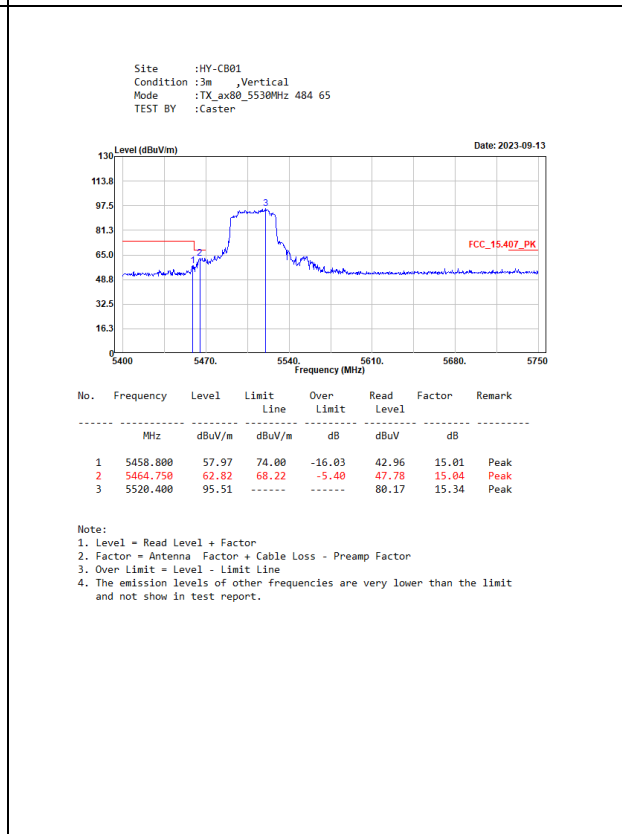
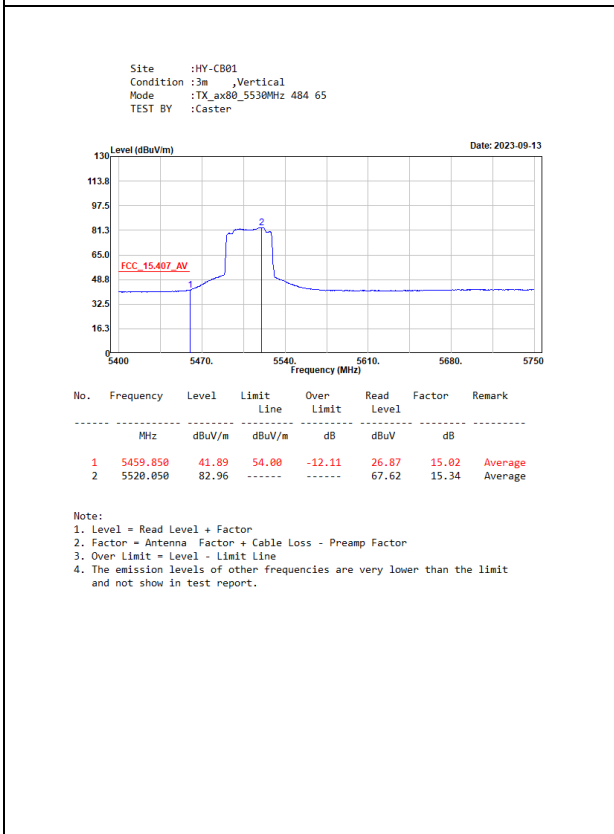
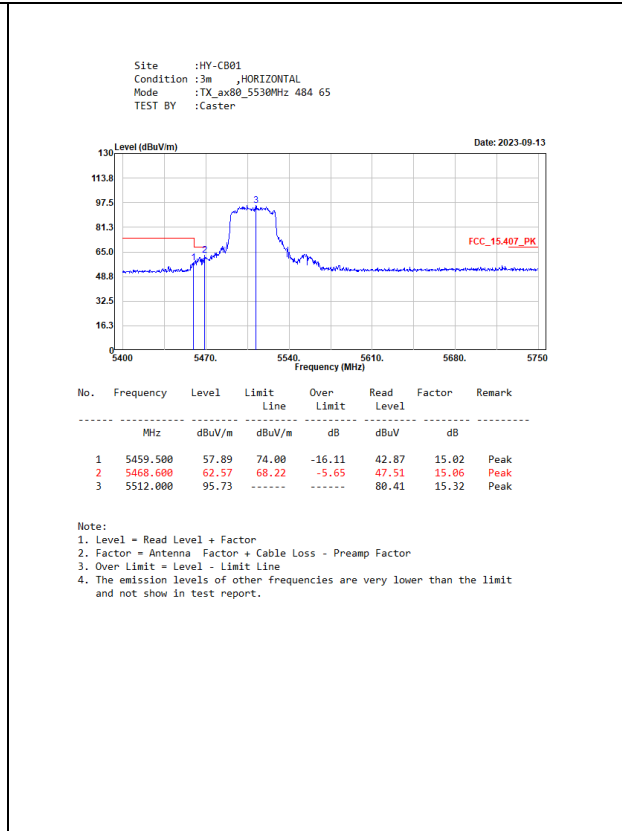
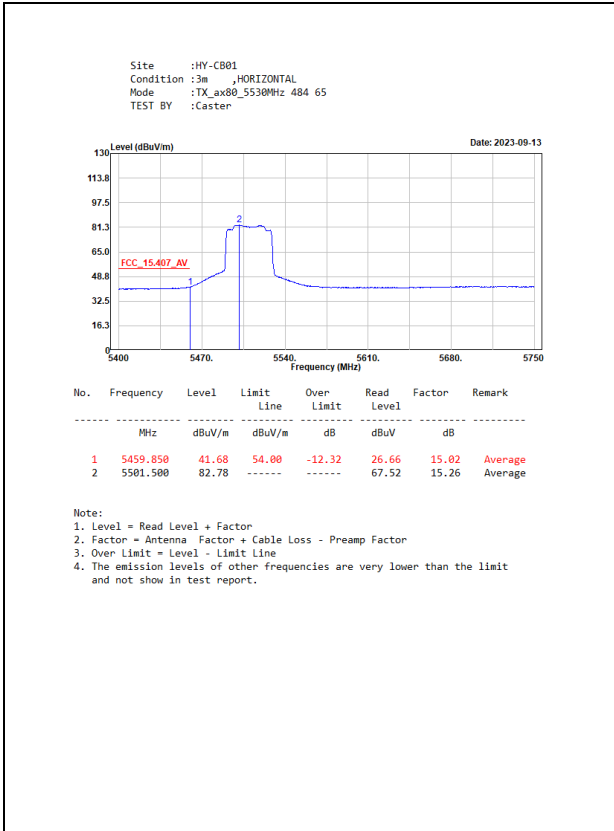


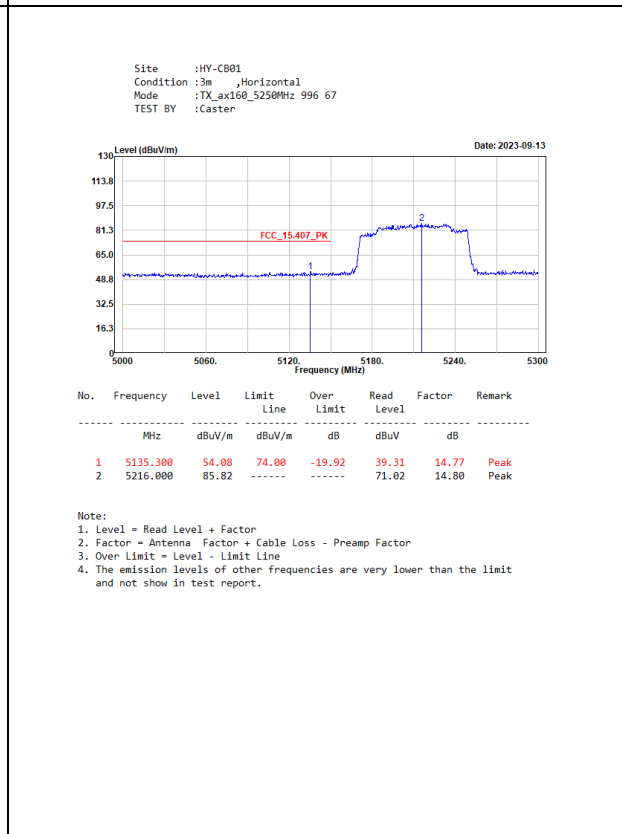
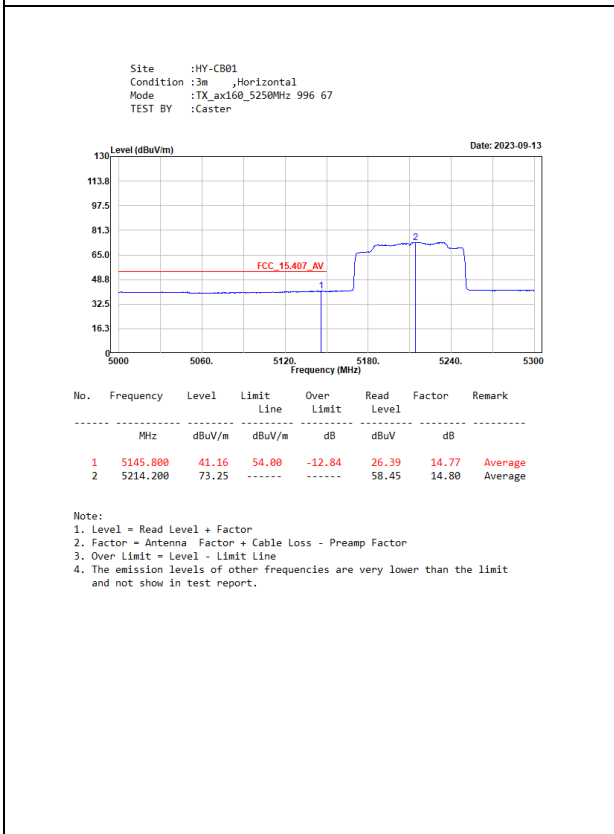
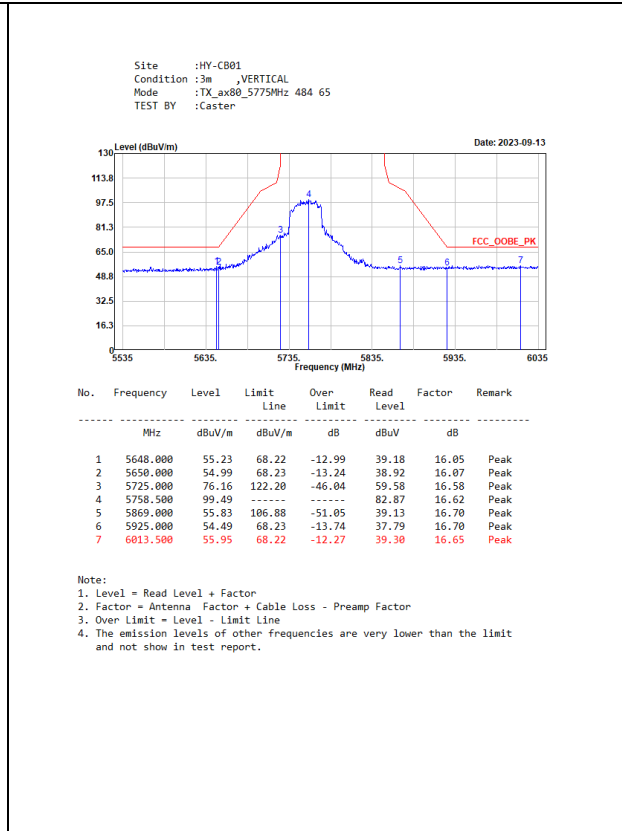
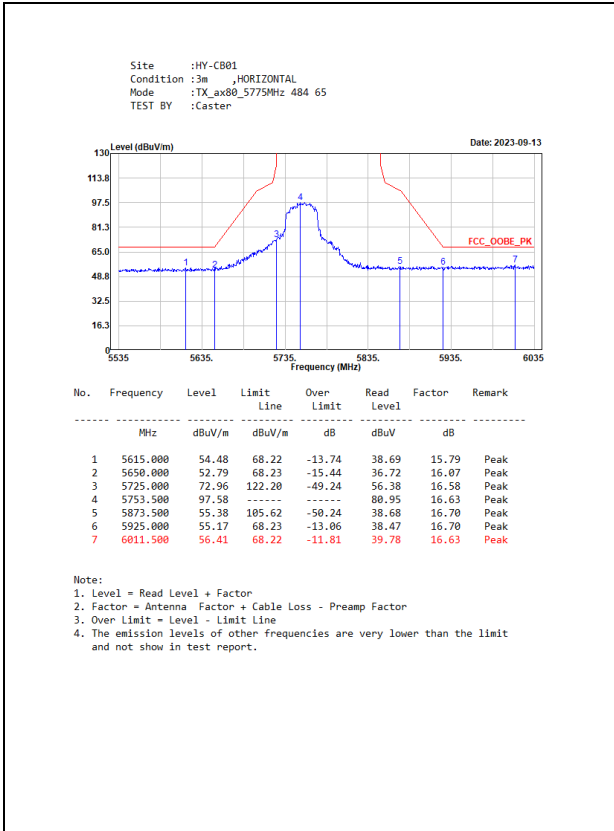


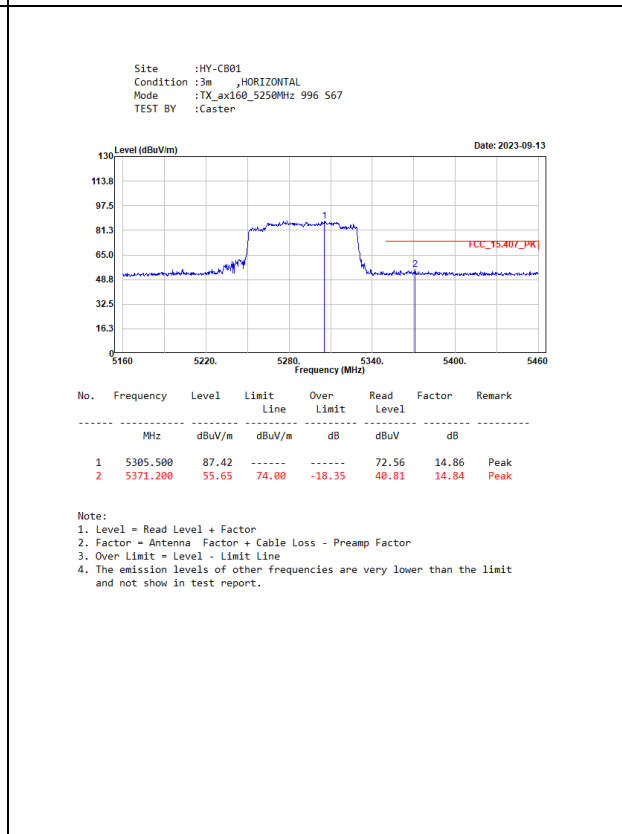
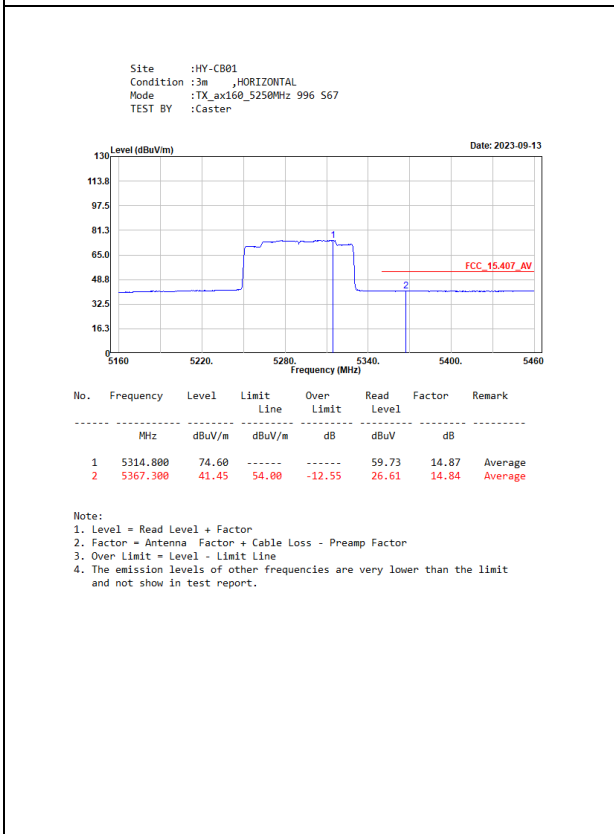
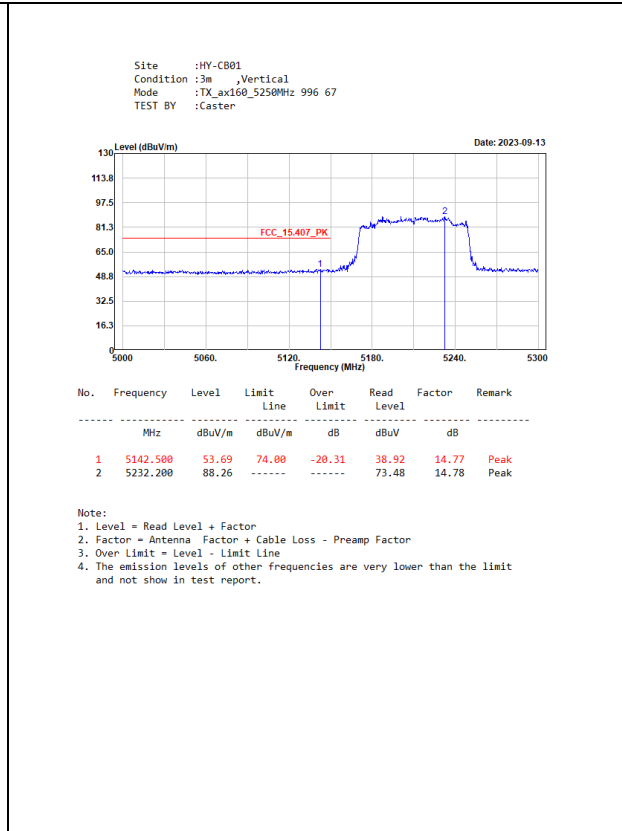
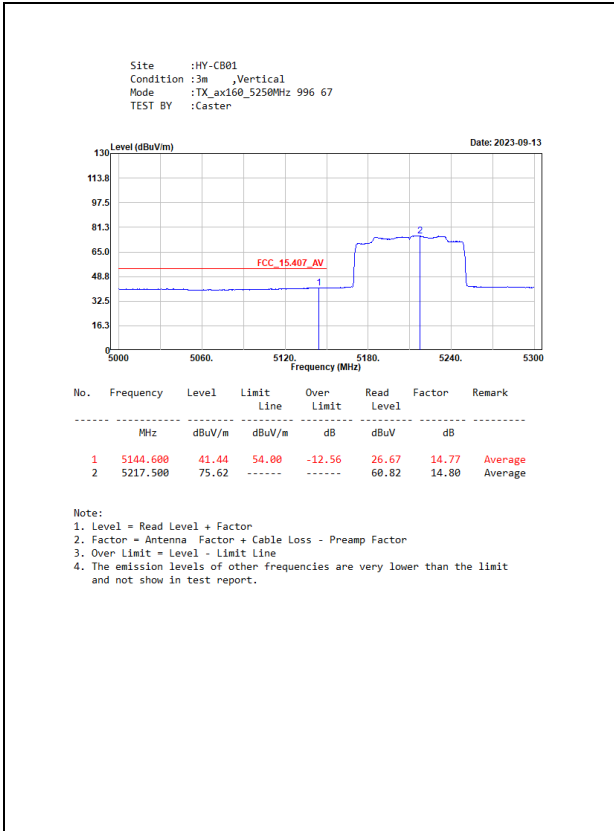


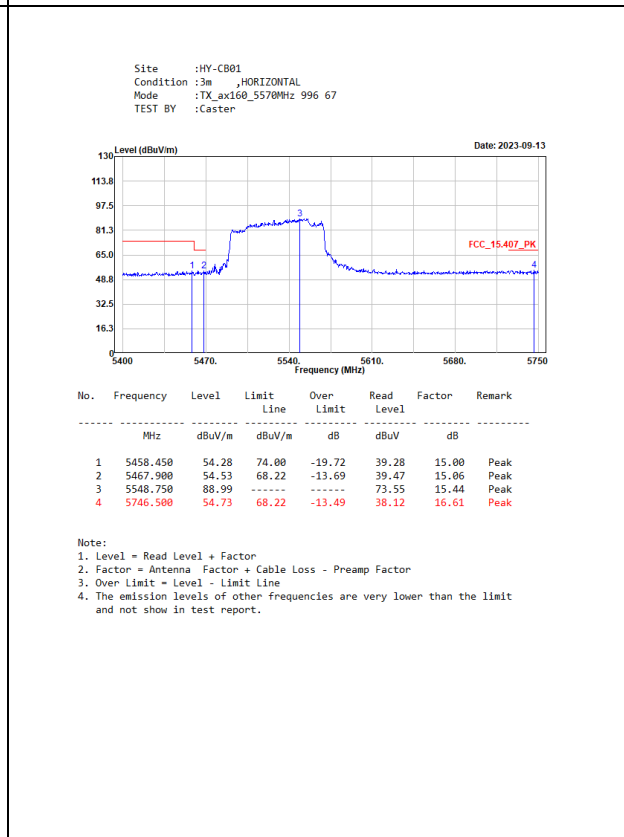
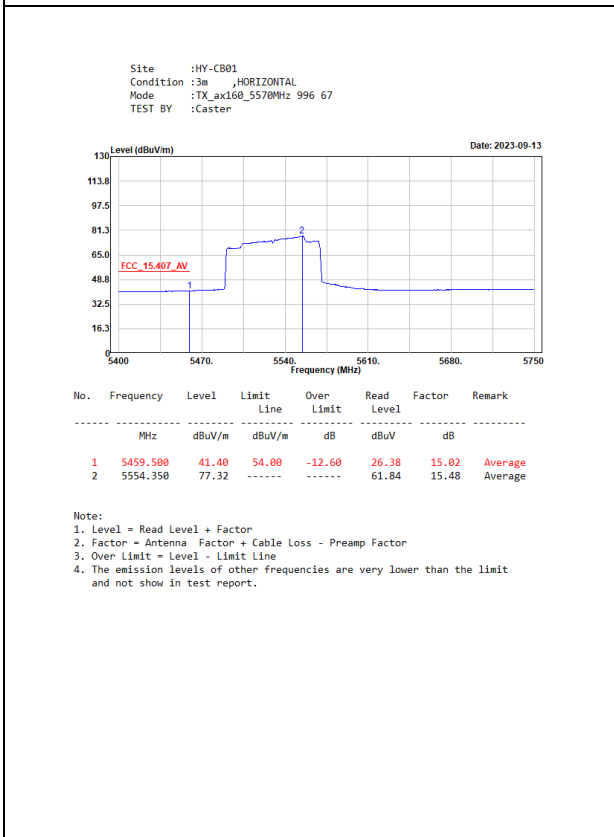
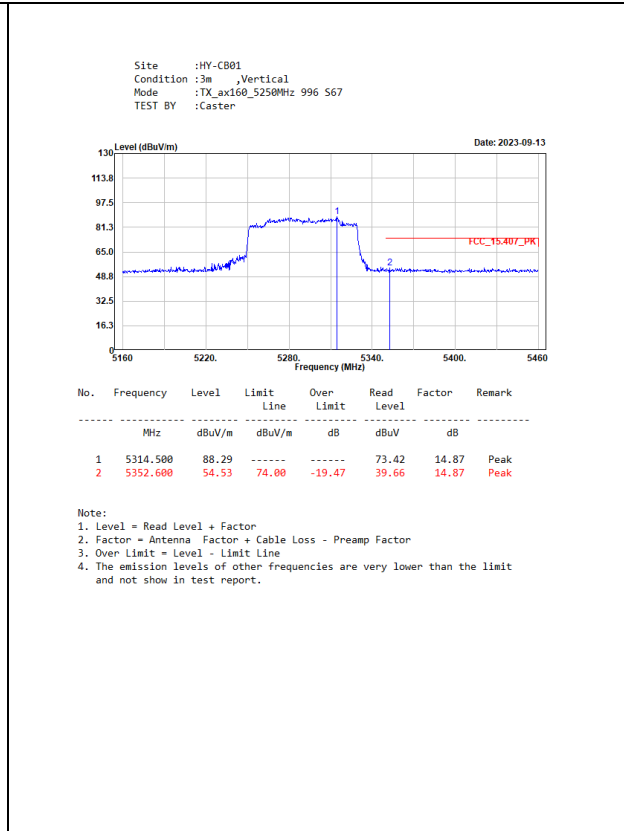
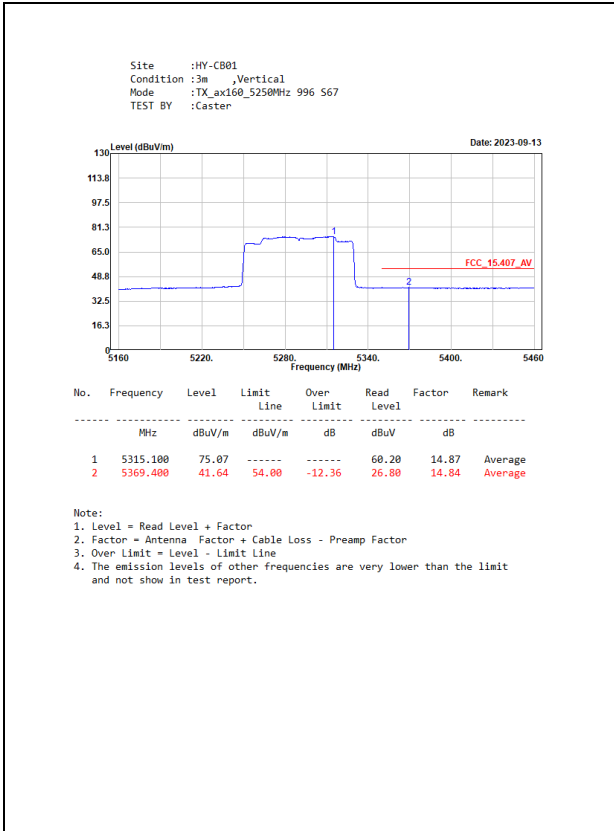


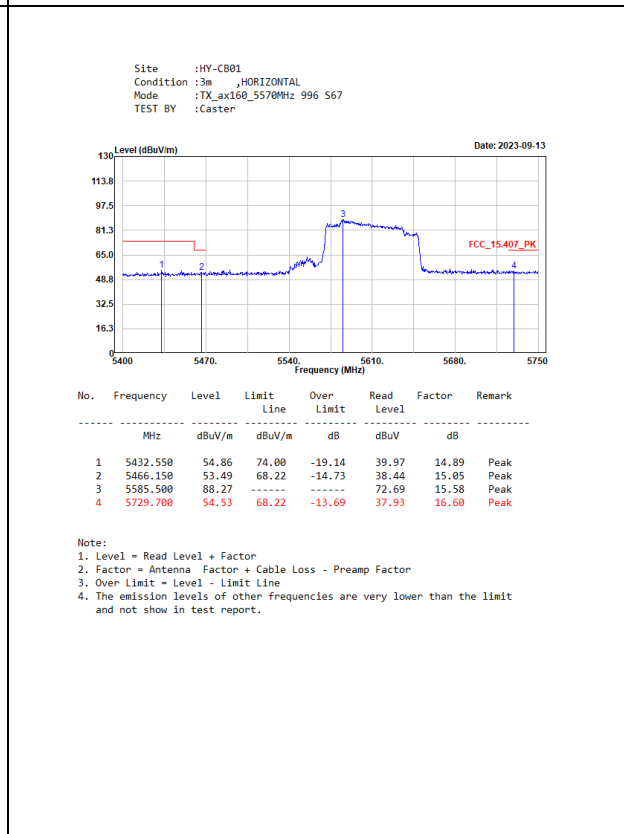
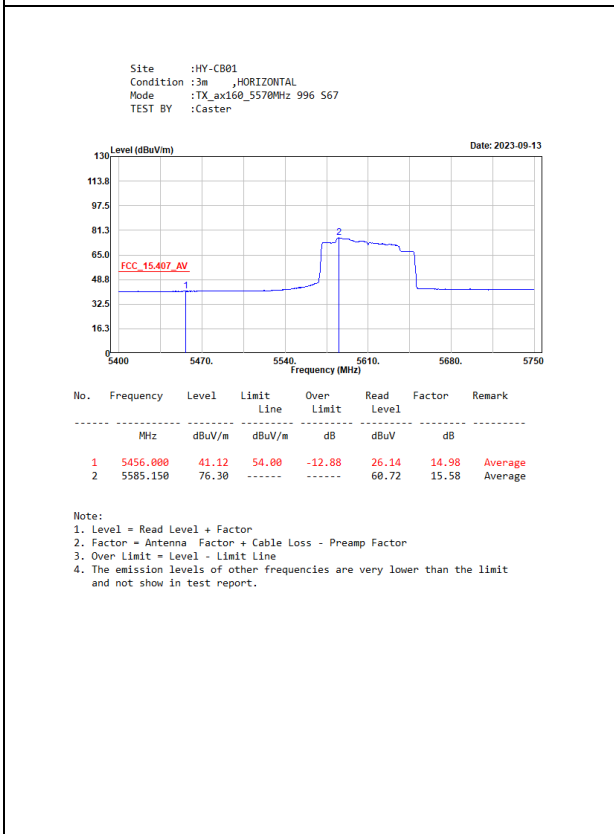
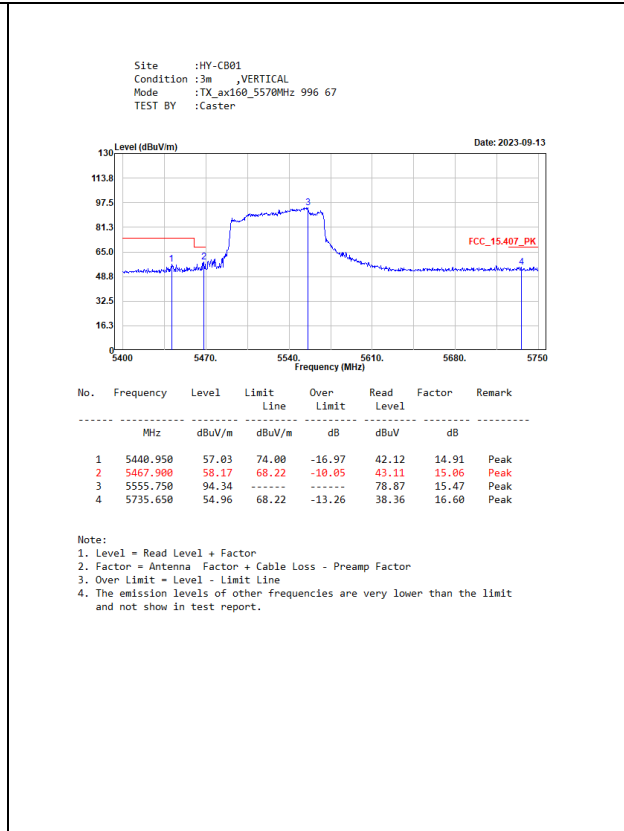
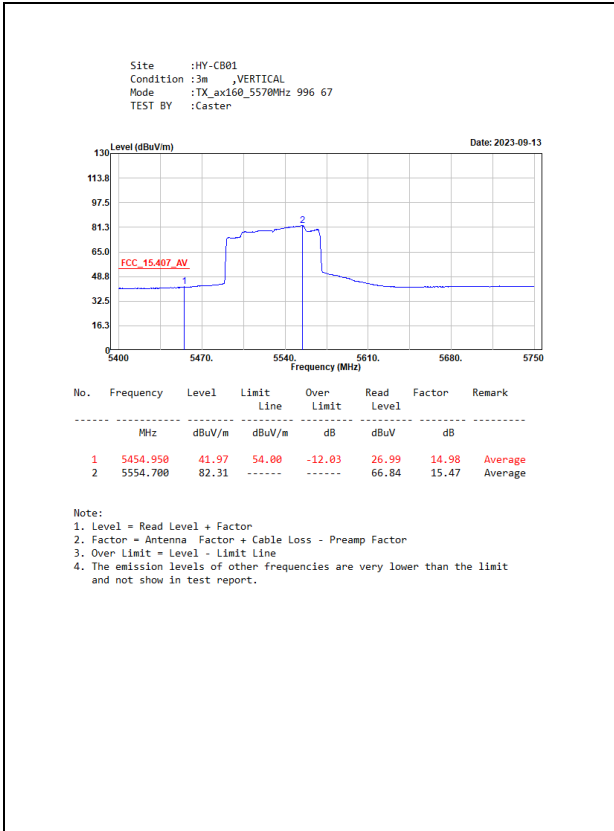


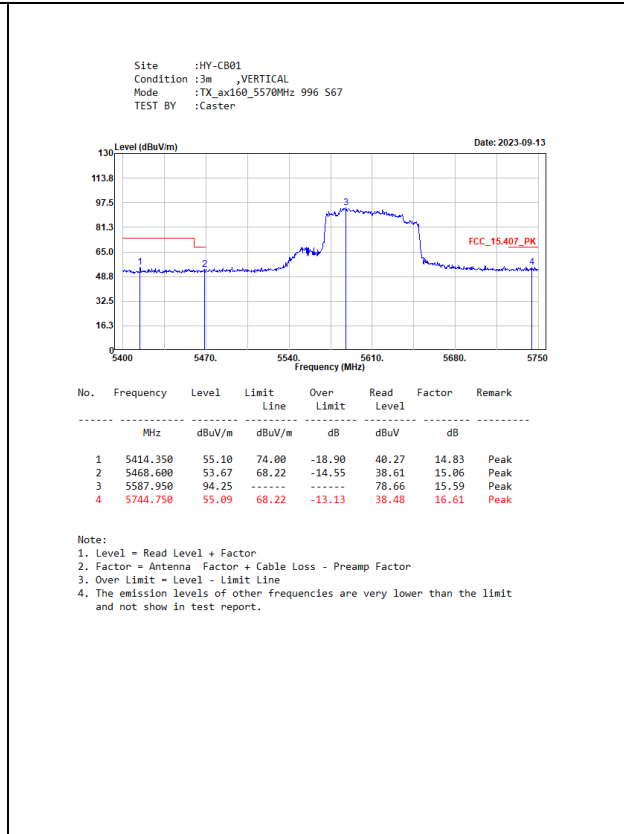
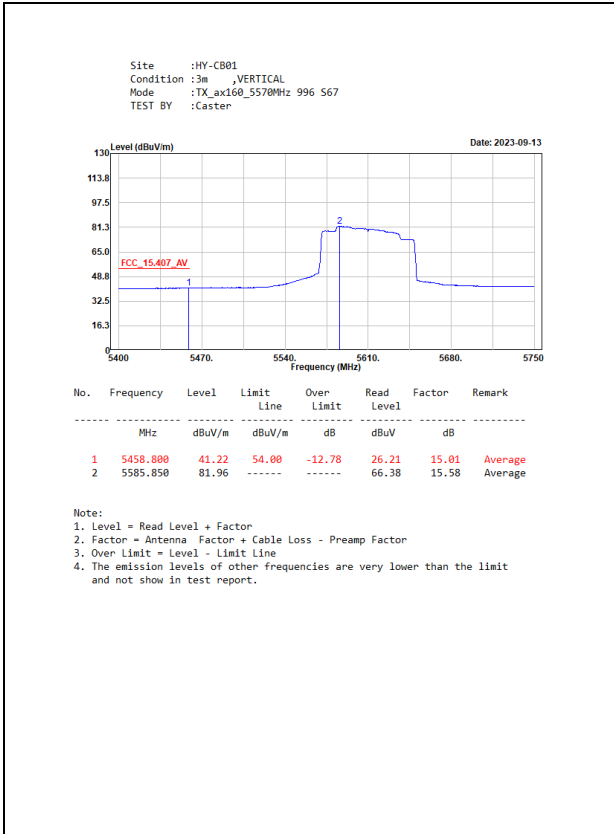






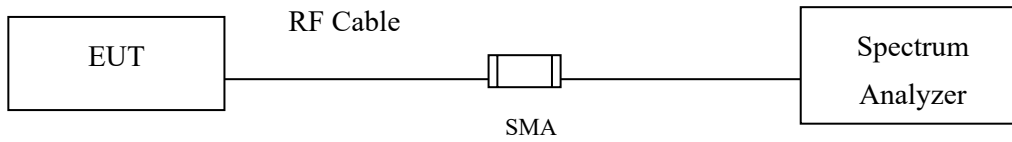






7. Occupied Bandwidth

7.1. Test Setup



7.2. Limits

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

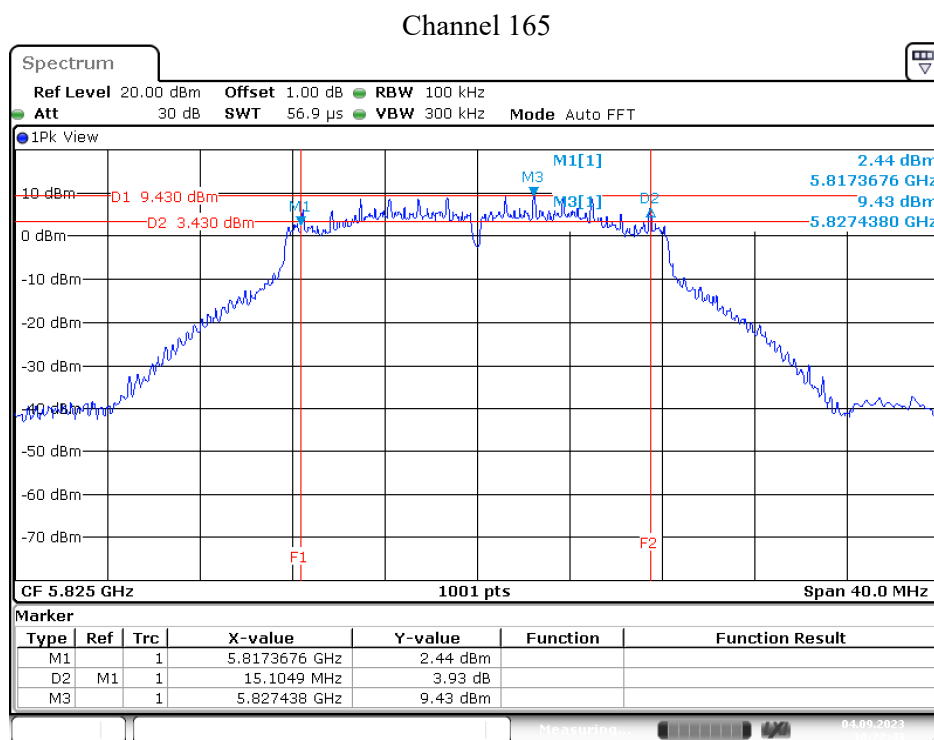
7.3. Test Procedure

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

7.4. Test Result of Occupied Bandwidth

Product : Notebook Computer
 Test Item : Occupied Bandwidth Data
 Test Mode : Transmit (802.11a)-SISO A
 Test Date : 2023/09/04

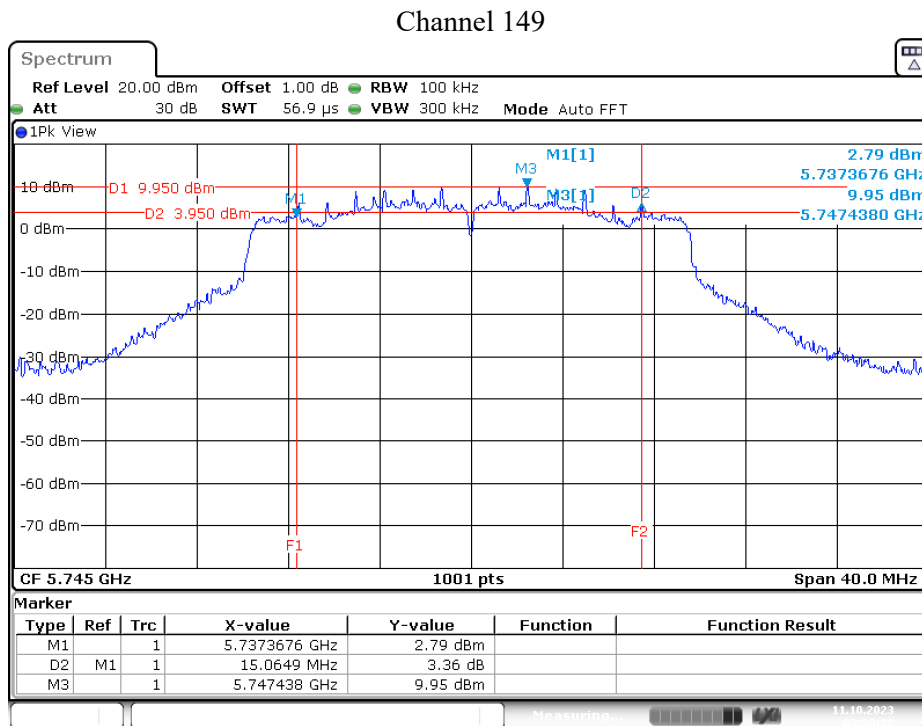
Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
149	5745	15904	>500	Pass
157	5785	15305	>500	Pass
165	5825	15105	>500	Pass



Date: 4.SEP.2023 18:22:43

Product : Notebook Computer
 Test Item : Occupied Bandwidth Data
 Test Mode : Transmit (802.11ax-20 MHz)-SISO A
 Test Date : 2023/10/11

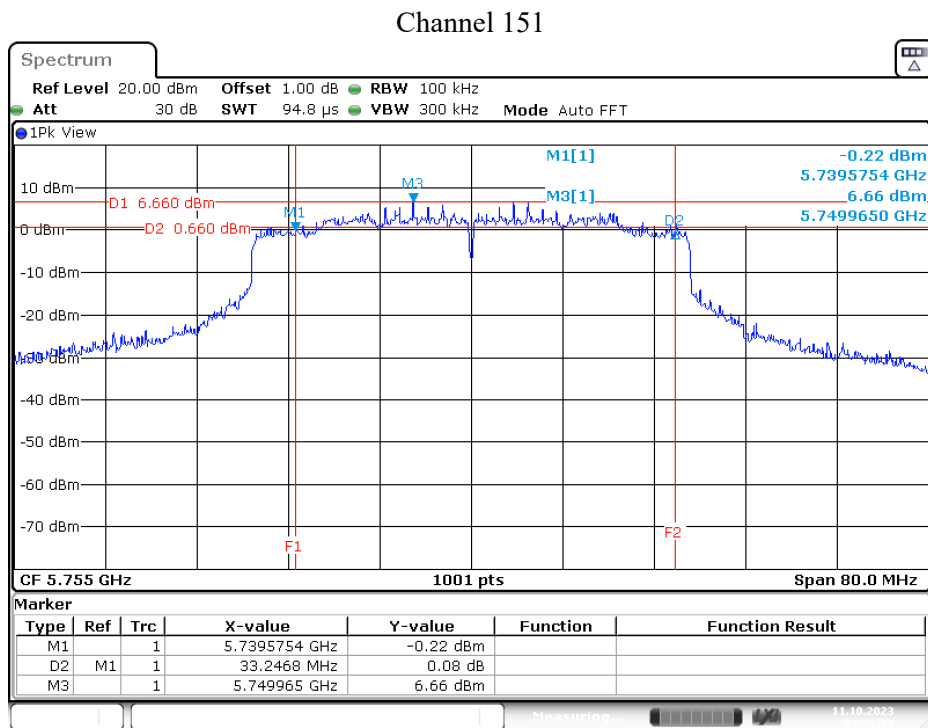
Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
149	5745	15065	>500	Pass
157	5785	18542	>500	Pass
165	5825	17383	>500	Pass



Date: 11.OCT.2023 03:30:32

Product : Notebook Computer
 Test Item : Occupied Bandwidth Data
 Test Mode : Transmit (802.11ax-40 MHz)-SISO A
 Test Date : 2023/10/11

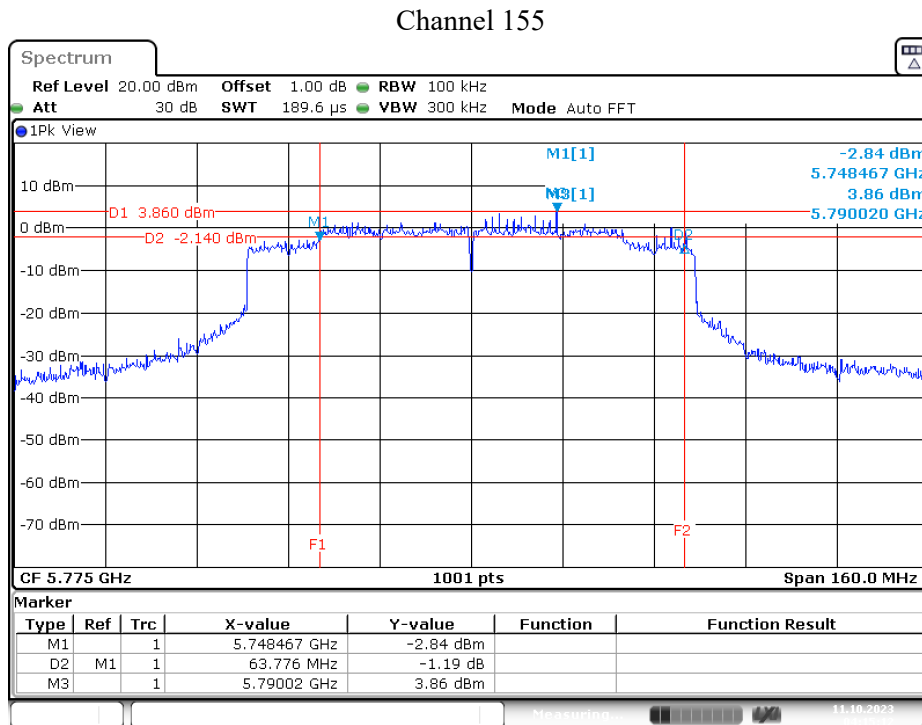
Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
151	5755	33247	>500	Pass
159	5795	35485	>500	Pass



Date: 11.OCT.2023 03:55:52

Product : Notebook Computer
 Test Item : Occupied Bandwidth Data
 Test Mode : Transmit (802.11ax-80 MHz)-SISO B
 Test Date : 2023/10/11

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
155	5775	63776	>500	Pass



Date: 11.OCT.2023 04:15:13

Product : Notebook Computer
 Test Item : Occupied Bandwidth Data
 Test Mode : Transmit (802.11ax-20 MHz)-MIMO
 Test Date : 2023/09/04

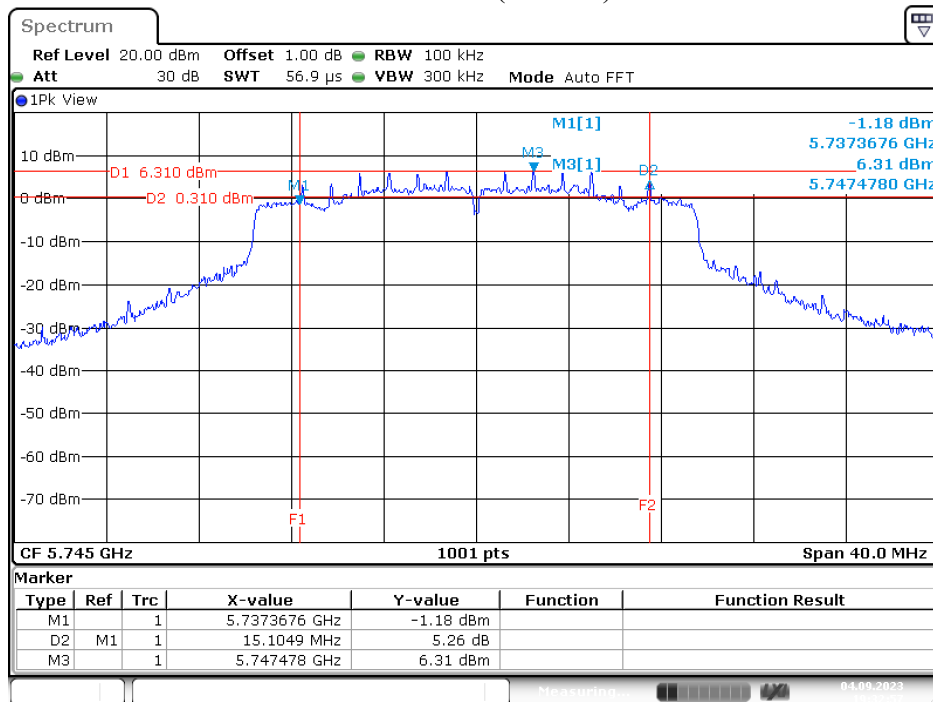
Chain A

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
149	5745	15664	>500	Pass
157	5785	15624	>500	Pass
165	5825	15465	>500	Pass

Chain B

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
149	5745	15105	>500	Pass
157	5785	16464	>500	Pass
165	5825	15105	>500	Pass

Channel 149 (Chain B)



Date: 4.SEP.2023 19:32:57

Product : Notebook Computer
 Test Item : Occupied Bandwidth Data
 Test Mode : Transmit (802.11 ax-40 MHz)-MIMO
 Test Date : 2023/09/04

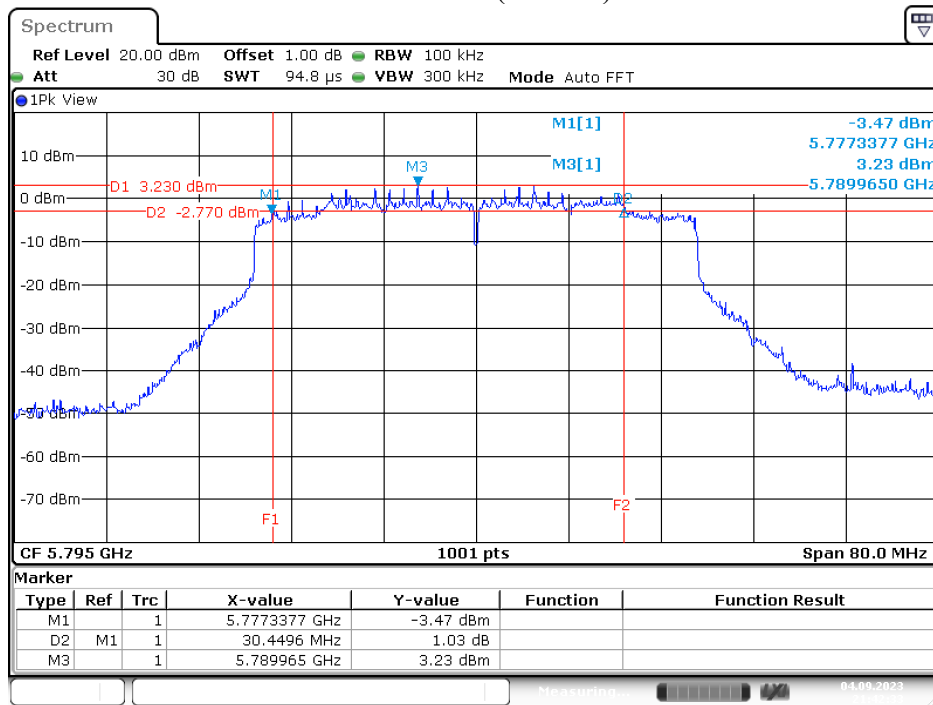
Chain A

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
151	5755	33487	>500	Pass
159	5795	30450	>500	Pass

Chain B

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
151	5755	35085	>500	Pass
159	5795	35085	>500	Pass

Channel 159 (Chain A)



Date: 4.SEP.2023 21:42:33

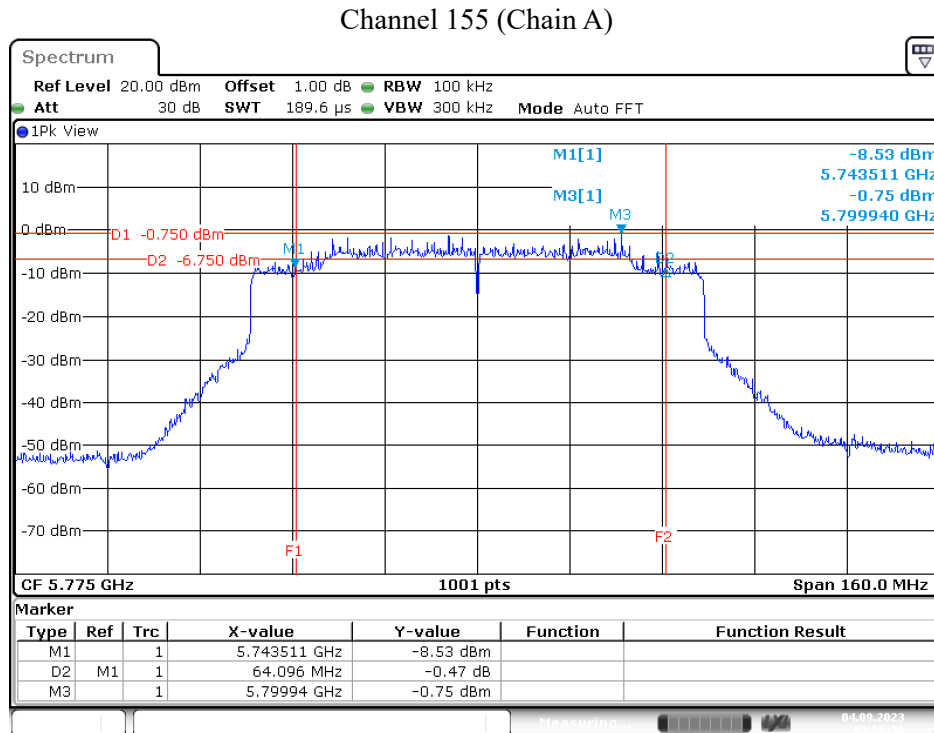
Product : Notebook Computer
 Test Item : Occupied Bandwidth Data
 Test Mode : Transmit (802.11ax-80 MHz)-MIMO
 Test Date : 2023/09/04

Chain A

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
155	5775	64096	>500	Pass

Chain B

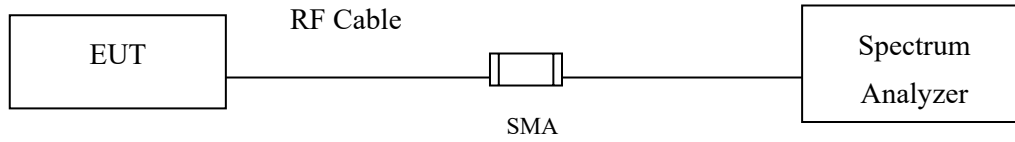
Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
155	5775	72567	>500	Pass



Date: 4.SEP.2023 22:06:36

8. Duty Cycle

8.1. Test Setup



8.2. Test Procedure

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

8.3. Test Result of Duty Cycle

Product : Notebook Computer
 Test Item : Duty Cycle
 Test Mode : Transmit

Duty Cycle Formula:

Duty Cycle = Ton / (Ton + Toff)

Duty Factor = 10 Log (1/Duty Cycle)

Results:

SISO A

5 GHz band	Ton (ms)	Ton + Toff (ms)	Duty Cycle (%)	Duty Factor (dB)
802.11a	2.0800	2.1400	97.20	0.12
802.11ax-20 MHz	3.9750	4.0350	98.51	0.07
802.11ax-40 MHz	3.9750	4.0350	98.51	0.07
802.11ax-80 MHz	3.9600	4.0350	98.14	0.08
802.11ax-160 MHz	3.9750	4.0350	98.51	0.07
802.11 ax-20 MHz (Partial RU)	2.5800	2.6400	97.73	0.10
802.11 ax-40 MHz (Partial RU)	2.5800	2.6300	98.10	0.08
802.11 ax-80 MHz (Partial RU)	2.5800	2.6400	97.73	0.10
802.11 ax-160 MHz (Partial RU)	2.5800	2.6400	97.73	0.10

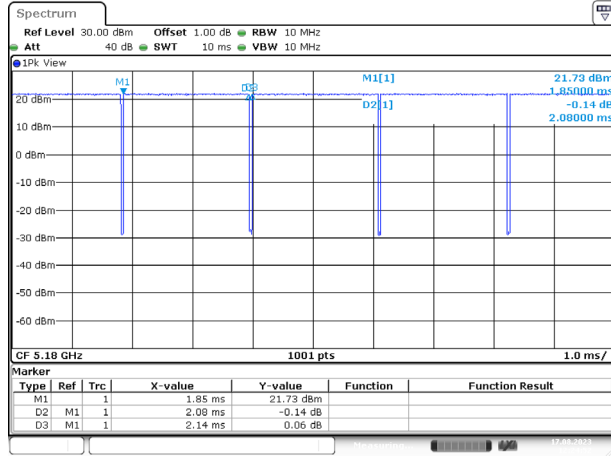
SISO B

5 GHz band	Ton (ms)	Ton + Toff (ms)	Duty Cycle (%)	Duty Factor (dB)
802.11a	2.0700	2.1300	97.18	0.12
802.11ax-20 MHz	3.9750	4.0350	98.51	0.07
802.11ax-40 MHz	3.9750	4.0350	98.51	0.07
802.11ax-80 MHz	3.9750	4.0350	98.51	0.07
802.11ax-160 MHz	3.9600	4.0200	98.51	0.07
802.11 ax-20 MHz (Partial RU)	2.5800	2.6300	98.10	0.08
802.11 ax-40 MHz (Partial RU)	2.5800	2.6400	97.73	0.10
802.11 ax-80 MHz (Partial RU)	2.5800	2.6300	98.10	0.08
802.11 ax-160 MHz (Partial RU)	2.5900	2.6400	98.11	0.08

MIMO

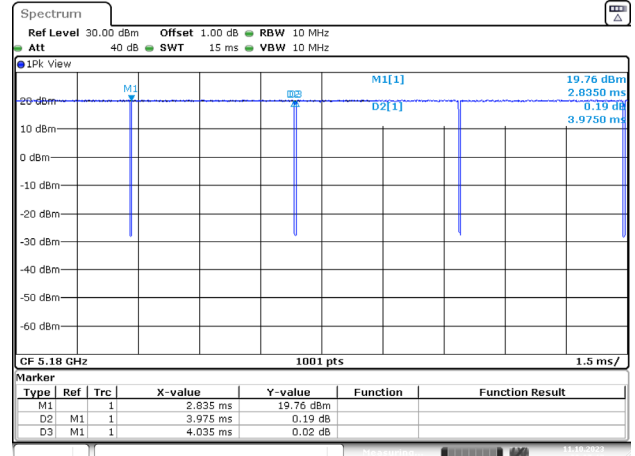
5 GHz band	Ton (ms)	Ton + Toff (ms)	Duty Cycle (%)	Duty Factor (dB)
802.11ax-20 MHz	3.9700	4.0300	98.51	0.07
802.11ax-40 MHz	3.9700	4.0300	98.51	0.07
802.11ax-80 MHz	3.9750	4.0350	98.51	0.07
802.11ax-160 MHz	2.3040	2.3600	97.63	0.10
802.11 ax-20 MHz (Partial RU)	2.5900	2.6400	98.11	0.08
802.11 ax-40 MHz (Partial RU)	2.5900	2.6400	98.11	0.08
802.11 ax-80 MHz (Partial RU)	2.5900	2.6500	97.74	0.10
802.11 ax-160 MHz (Partial RU)	2.6000	2.6500	98.11	0.08

802.11a-SISO A



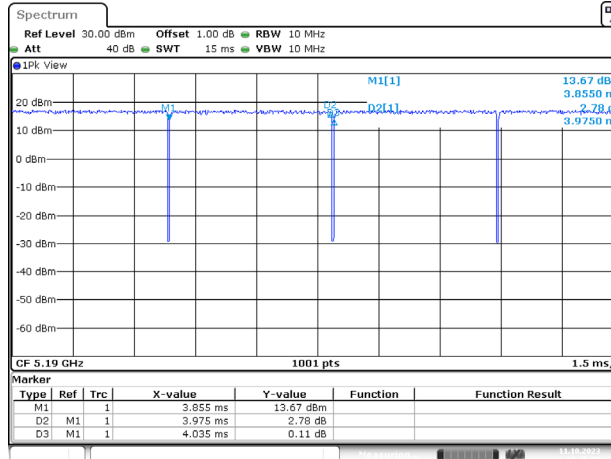
Date: 17.AUG.2023 12:24:53

802.11ax-20 MHz-SISO A



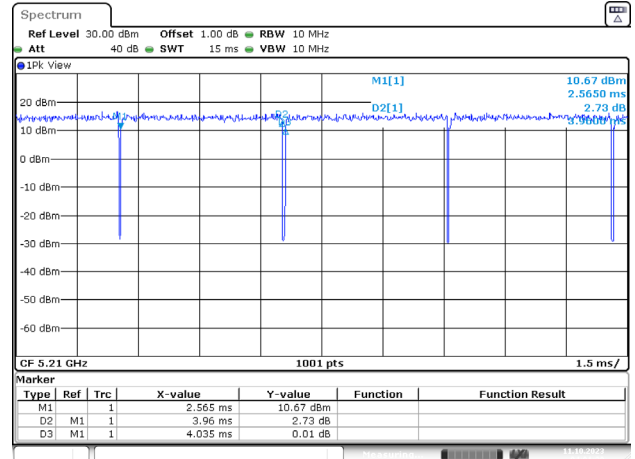
Date: 11.OCT.2023 03:07:17

802.11ax-40 MHz-SISO A



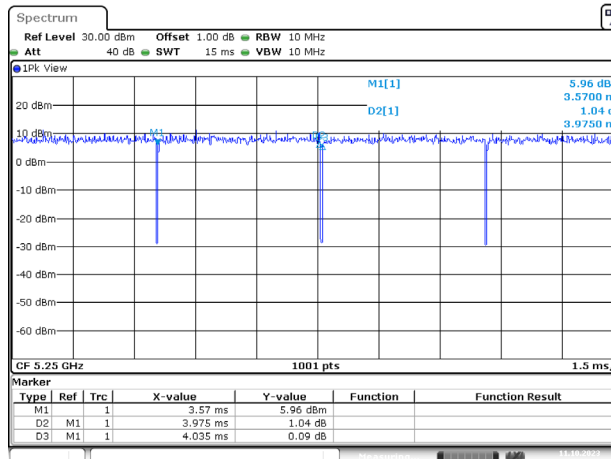
Date: 11.OCT.2023 03:35:56

802.11ax-80 MHz-SISO A



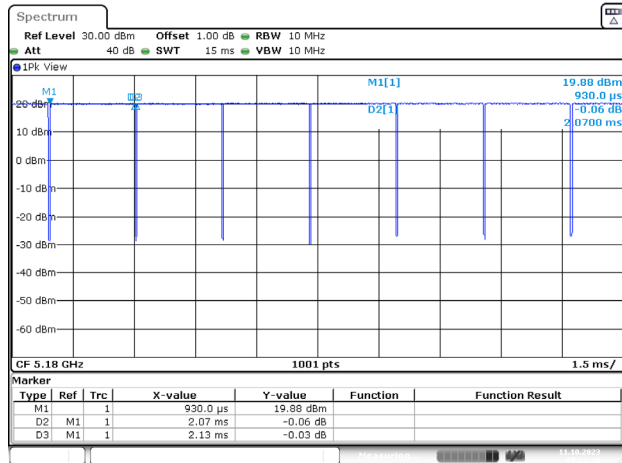
Date: 11.OCT.2023 04:01:39

802.11ax-160 MHz-SISO A



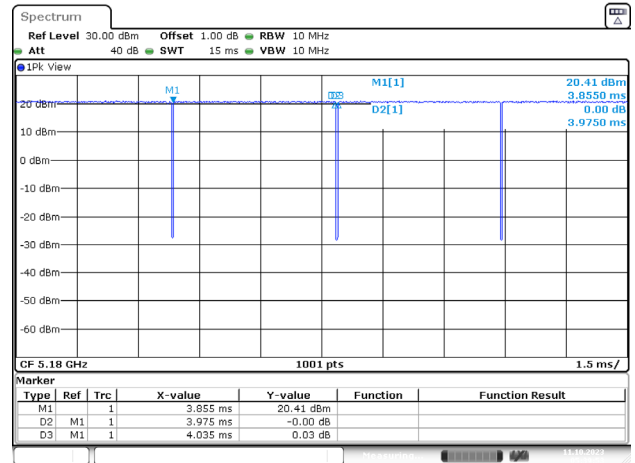
Date: 11.OCT.2023 04:18:40

802.11a-SISO B



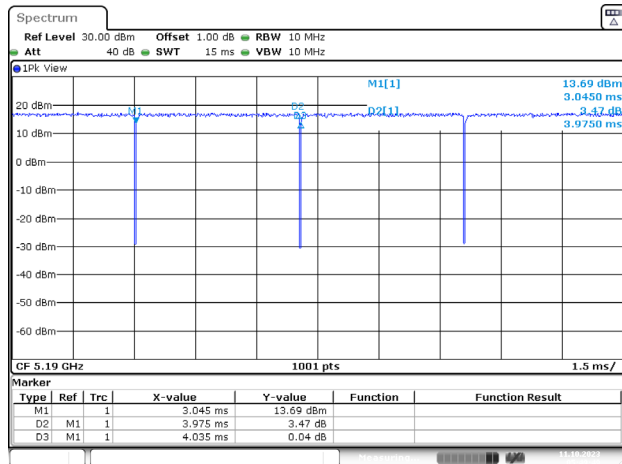
Date: 11.OCT.2023 05:22:49

802.11ax-20 MHz-SISO B



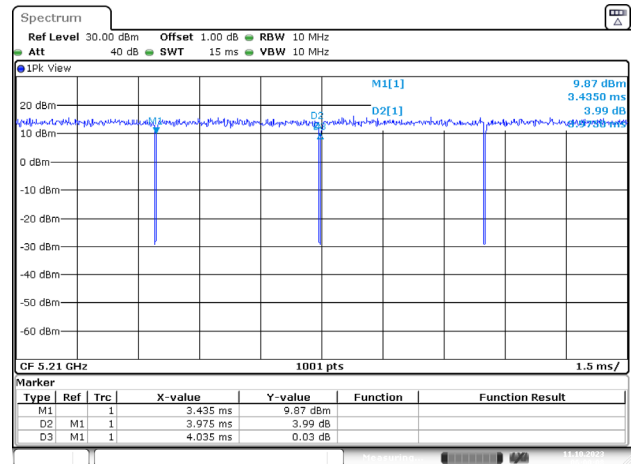
Date: 11.OCT.2023 05:39:54

802.11ax-40 MHz-SISO B



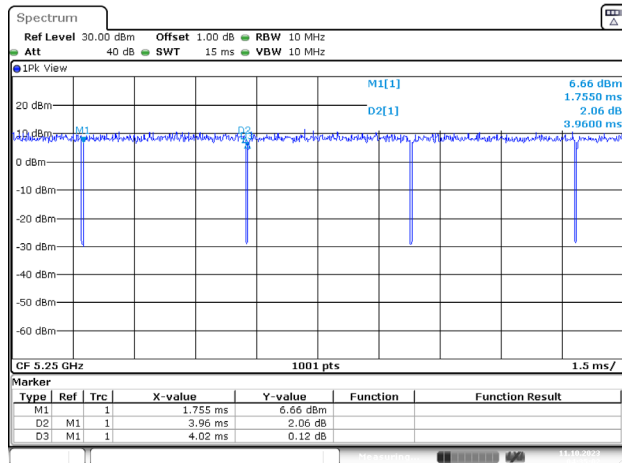
Date: 11.OCT.2023 05:49:50

802.11ax-80 MHz-SISO B



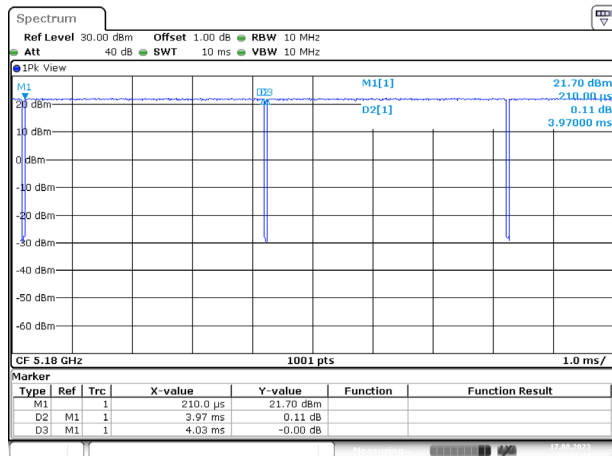
Date: 11.OCT.2023 06:00:08

802.11ax-160 MHz-SISO B



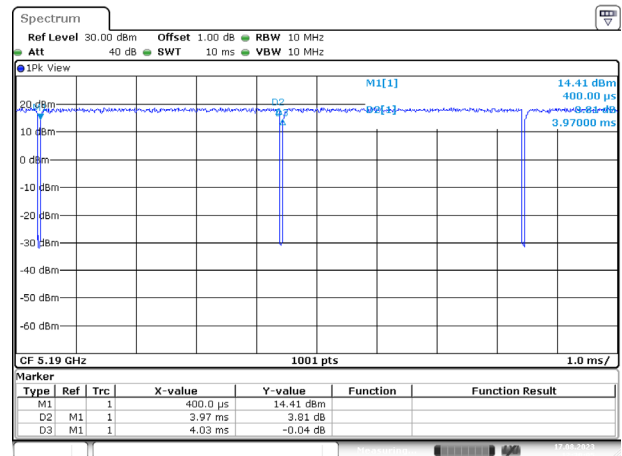
Date: 11.OCT.2023 04:35:02

802.11ax-20 MHz-MIMO



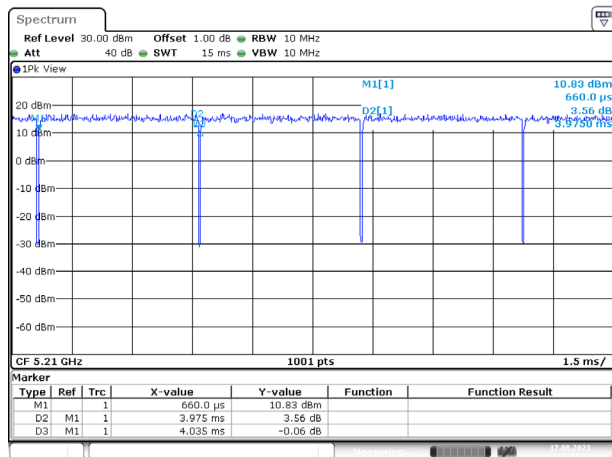
Date: 17.AUG.2023 12:27:43

802.11ax-40 MHz-MIMO



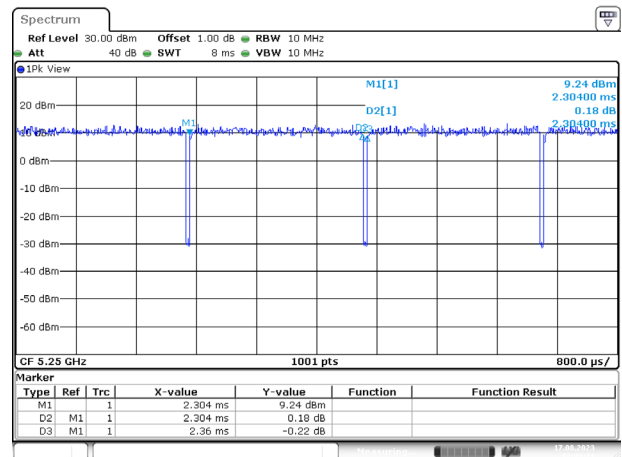
Date: 17.AUG.2023 12:30:05

802.11ax-80 MHz-MIMO



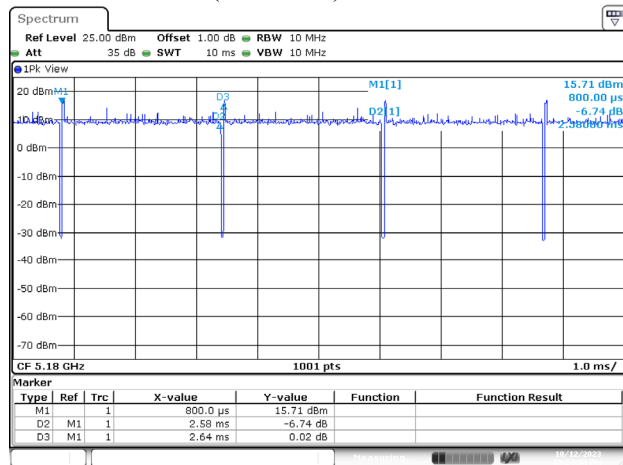
Date: 17.AUG.2023 12:31:21

802.11ax-160 MHz-MIMO



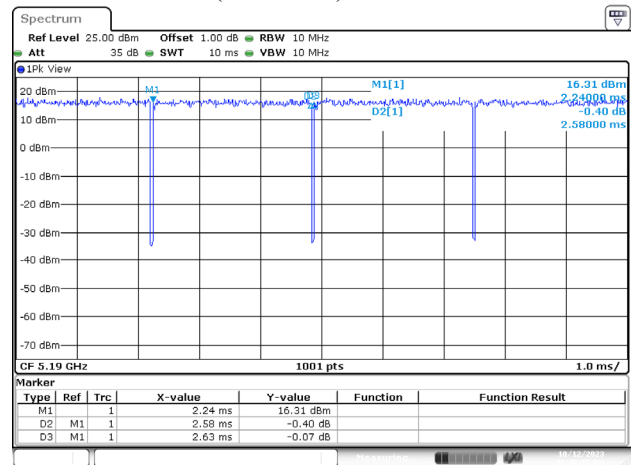
Date: 17.AUG.2023 12:33:22

802.11ax-20 MHz (Partial RU)-SISO A



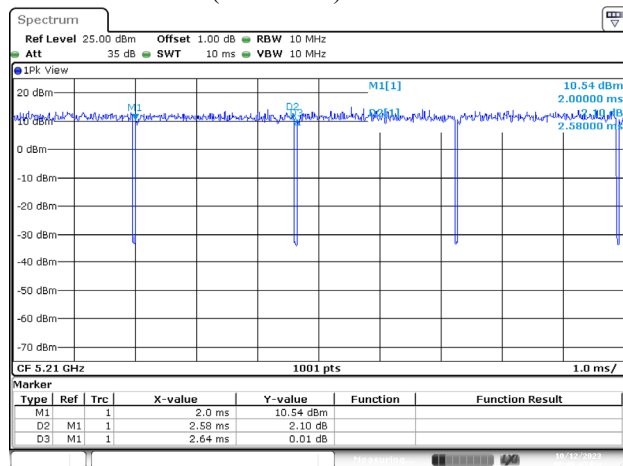
Date: 12.OCT.2023 20:21:53

802.11ax-40 MHz (Partial RU)-SISO A



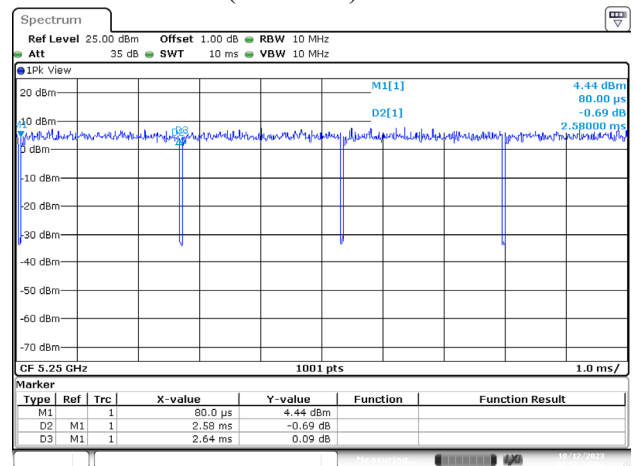
Date: 12.OCT.2023 20:46:15

802.11ax-80 MHz (Partial RU)-SISO A



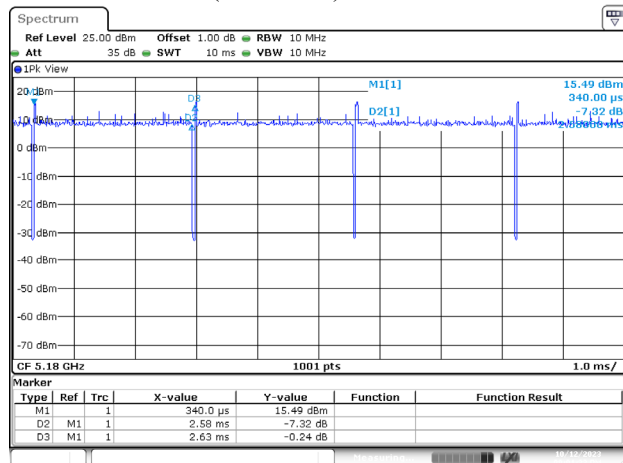
Date: 12.OCT.2023 20:49:43

802.11ax-160 MHz (Partial RU)-SISO A



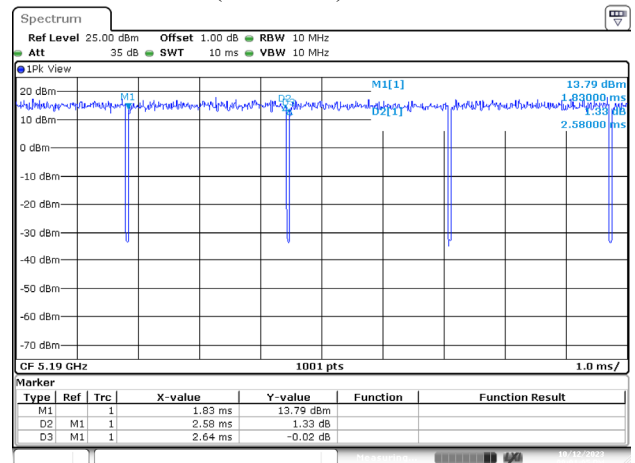
Date: 12.OCT.2023 20:52:35

802.11ax-20 MHz (Partial RU)-SISO B



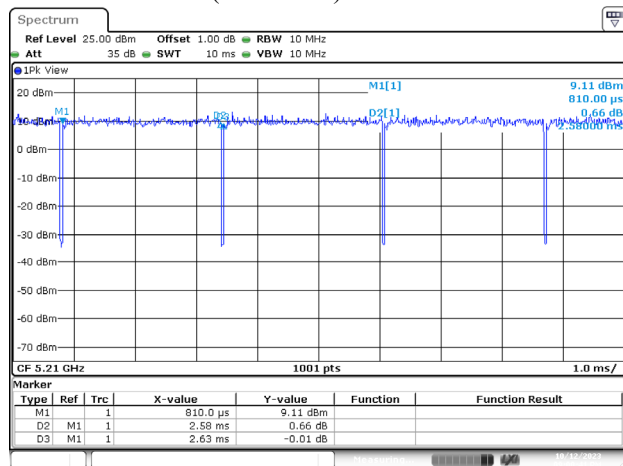
Date: 12.OCT.2023 21:01:33

802.11ax-40 MHz (Partial RU)-SISO B



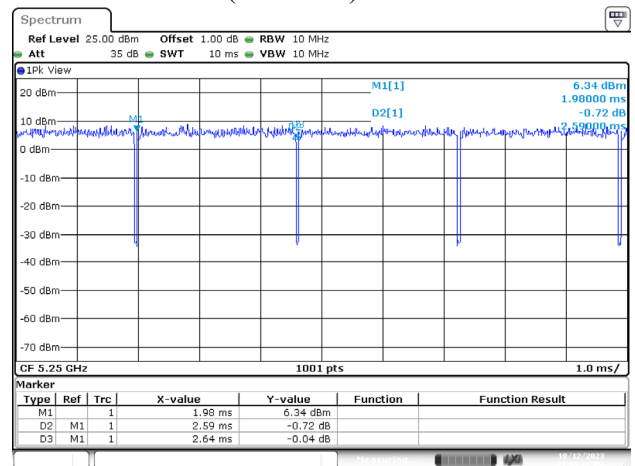
Date: 12.OCT.2023 21:01:06

802.11ax-80 MHz (Partial RU)-SISO B



Date: 12.OCT.2023 21:00:41

802.11ax-160 MHz (Partial RU)-SISO B



Date: 12.OCT.2023 21:00:17