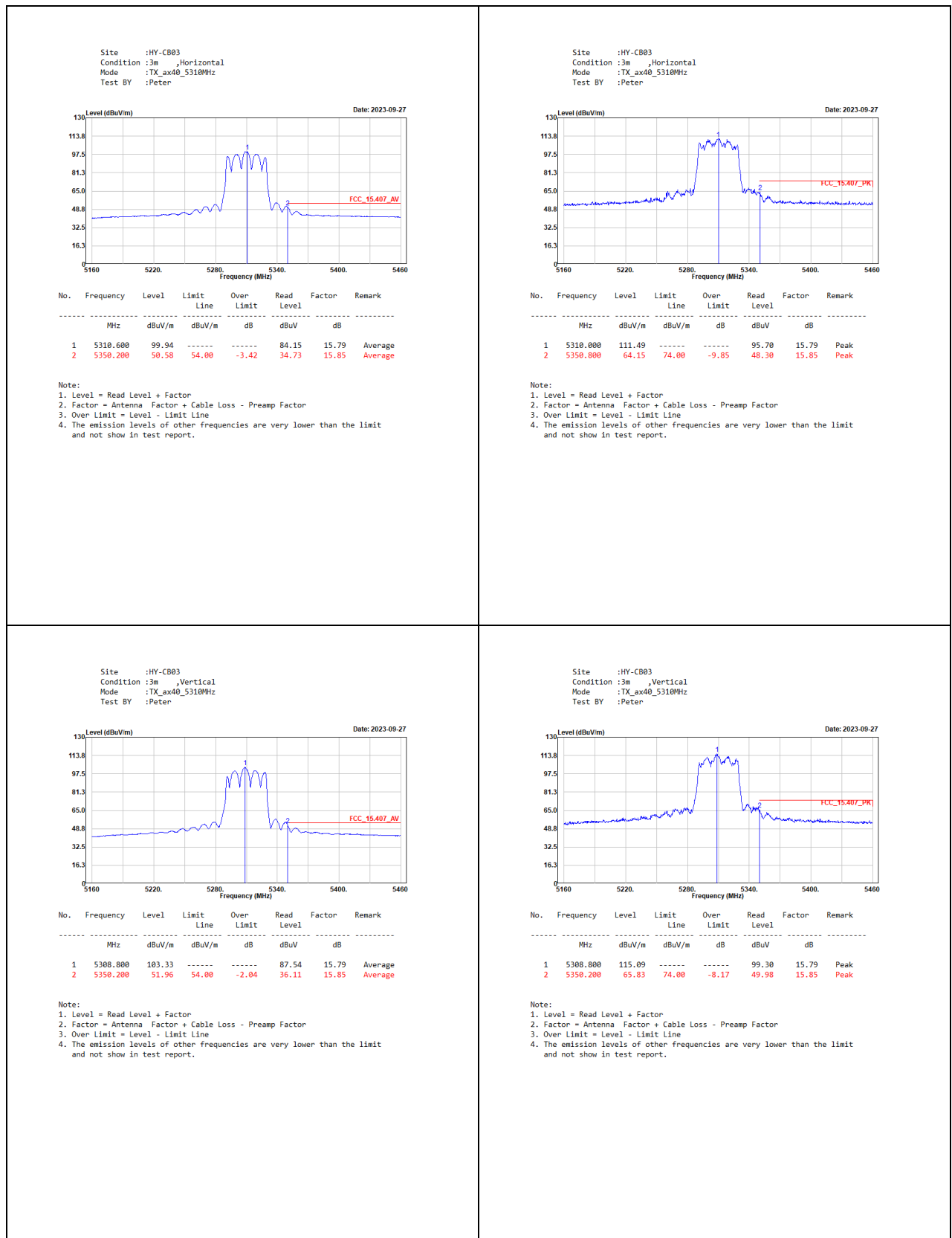
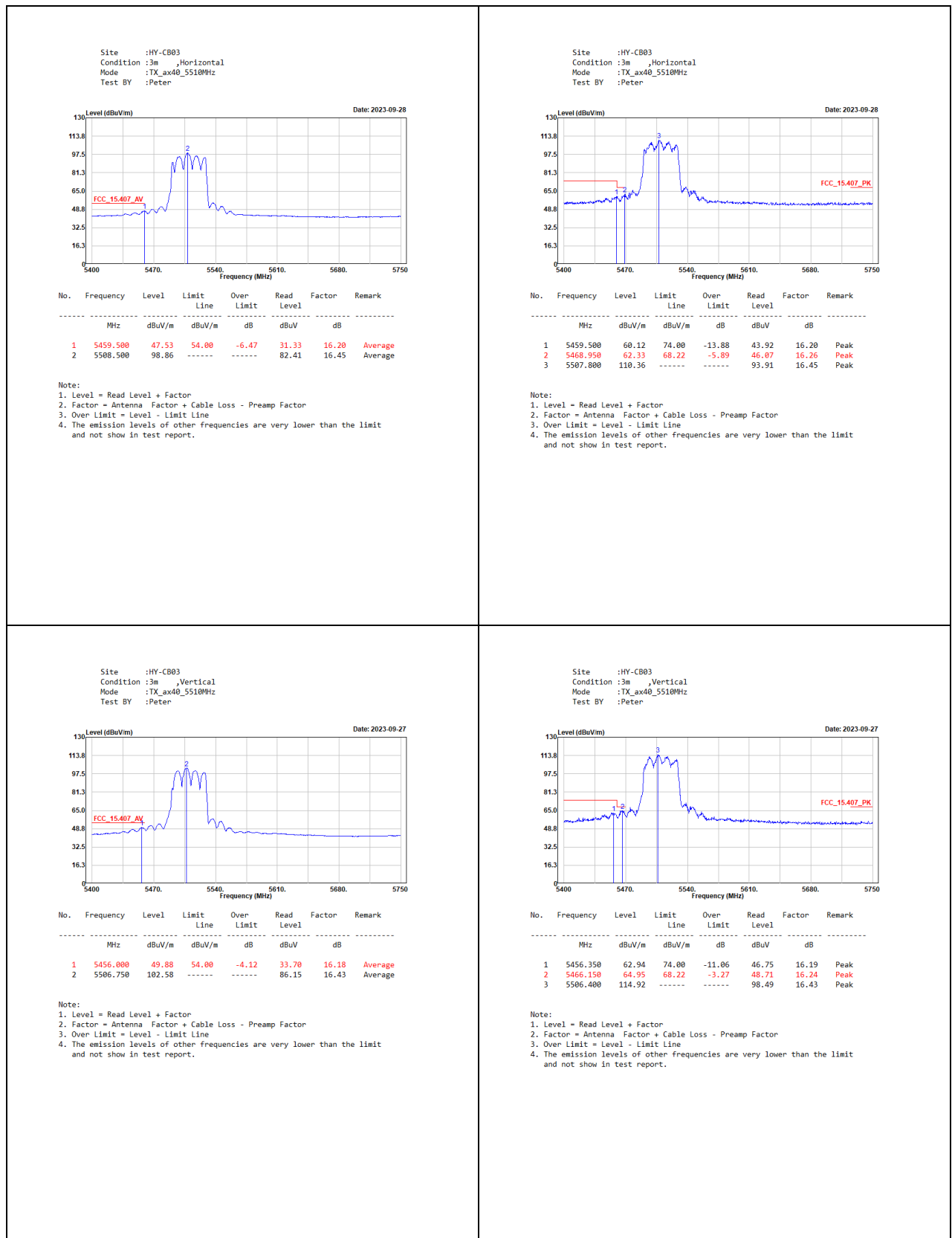
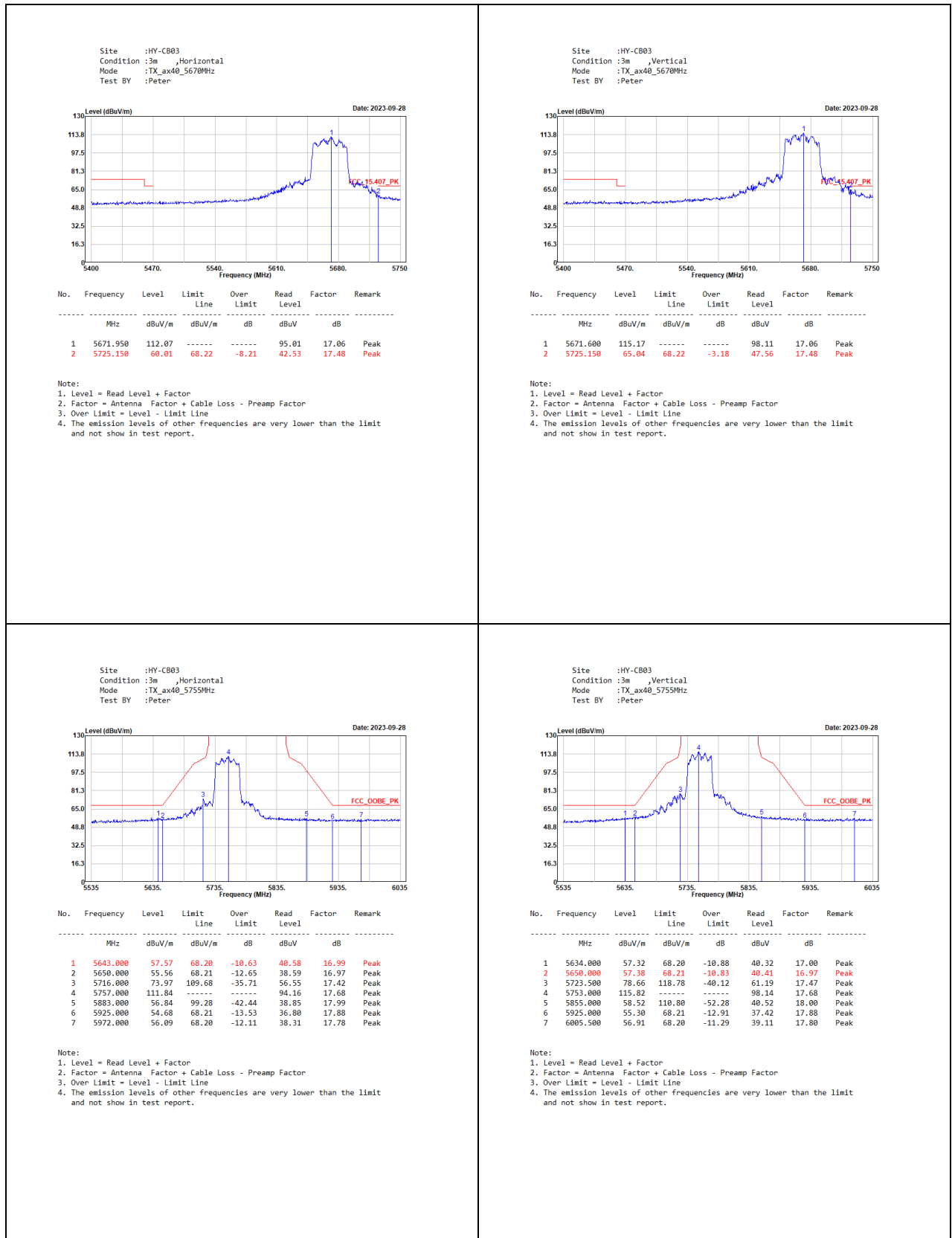
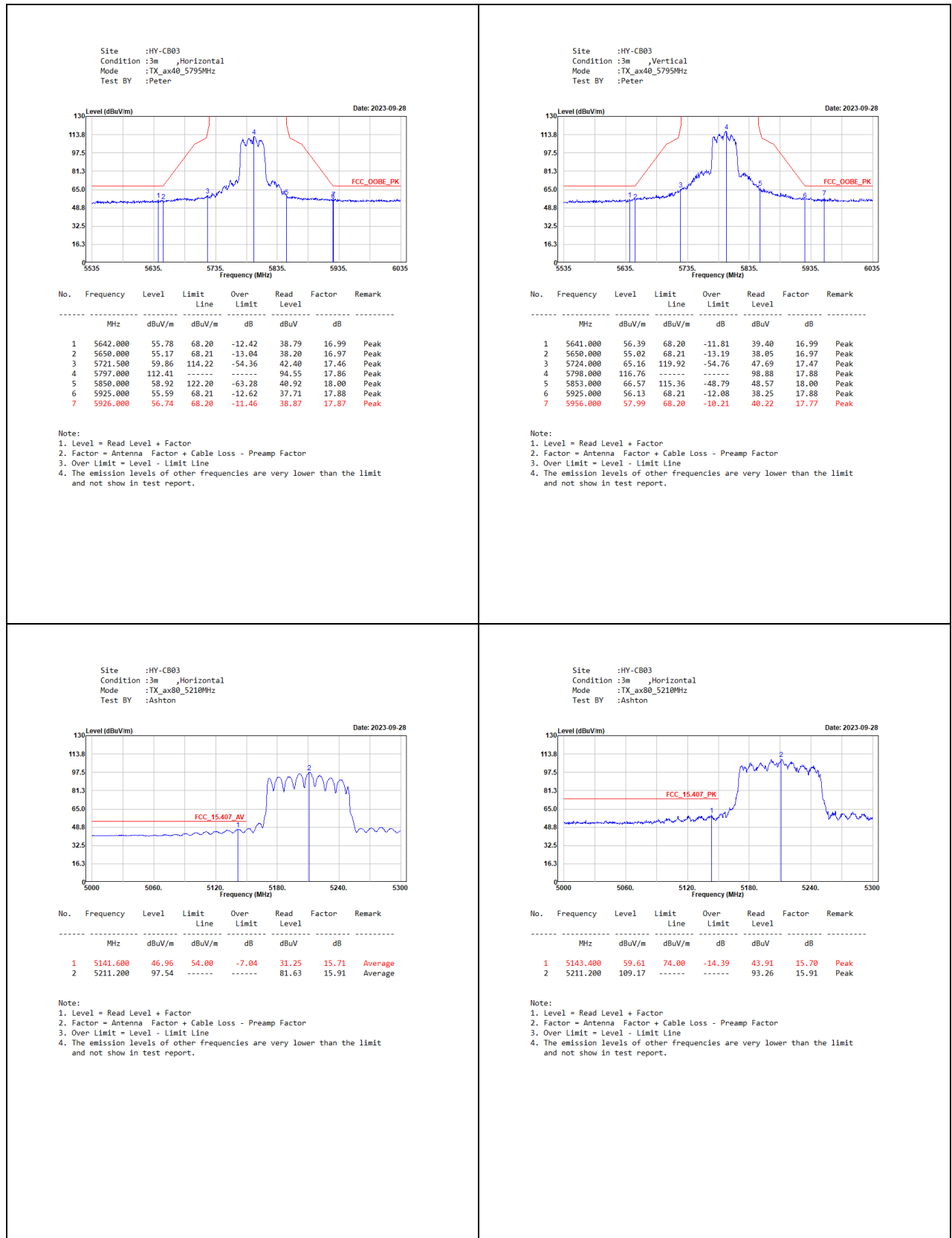
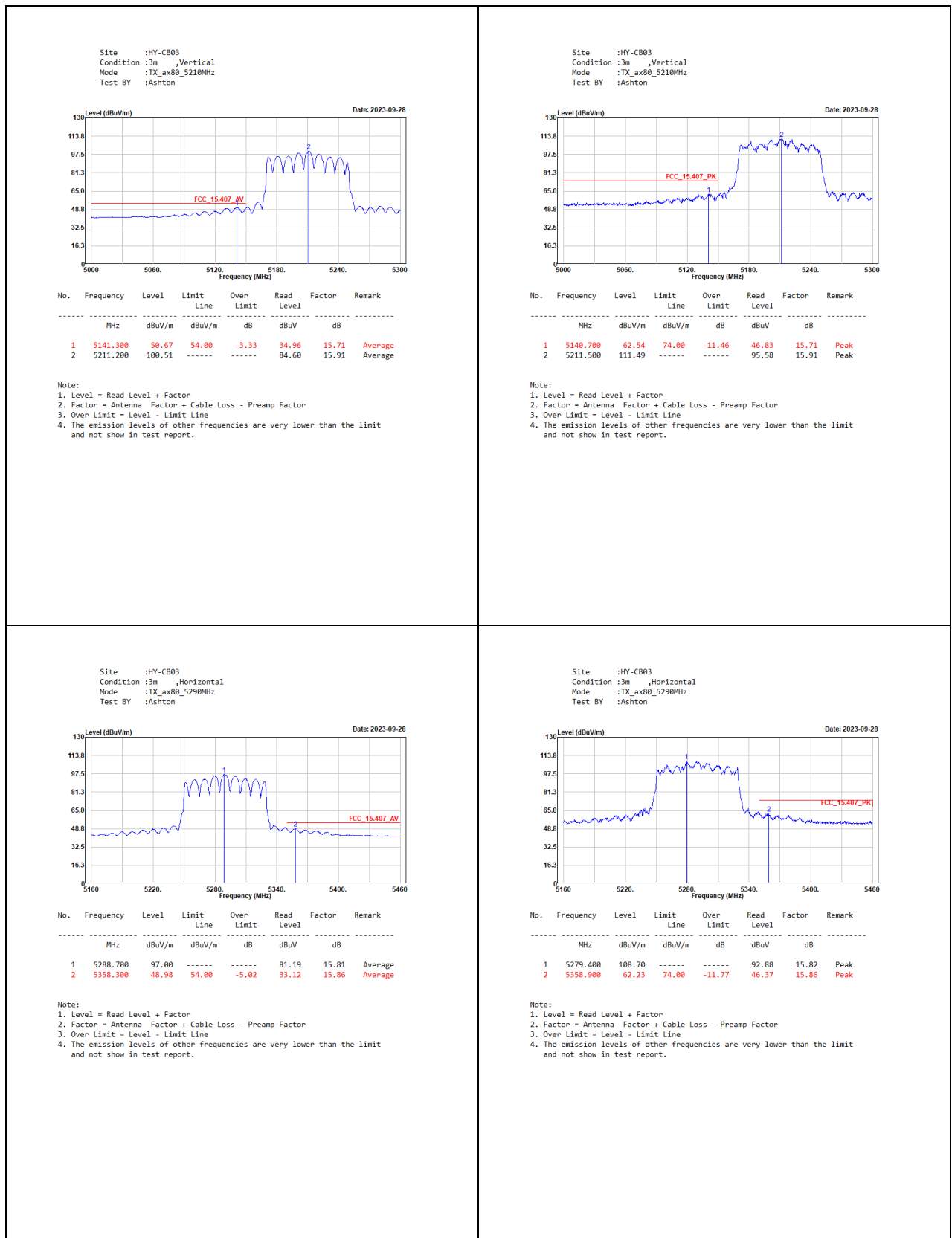


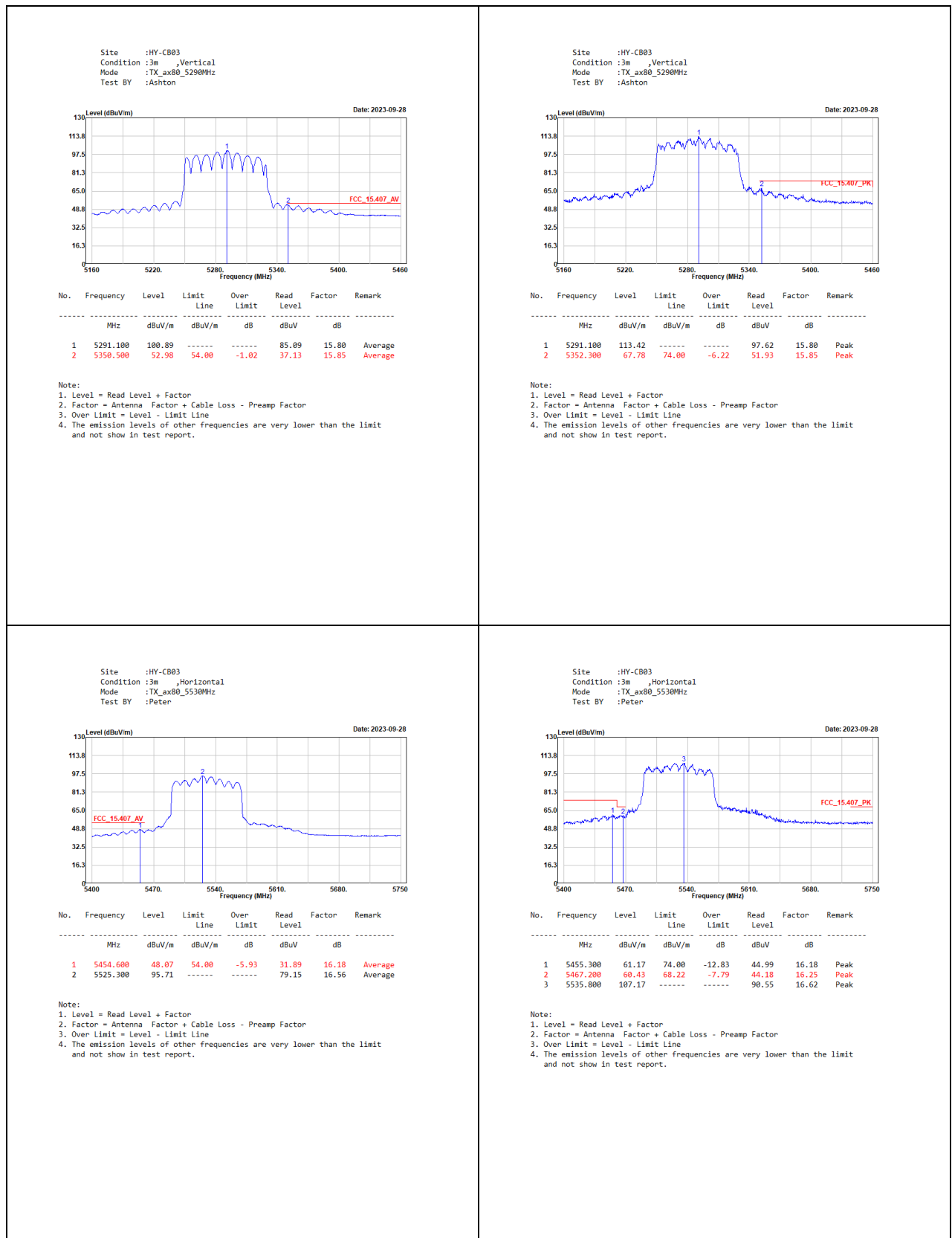


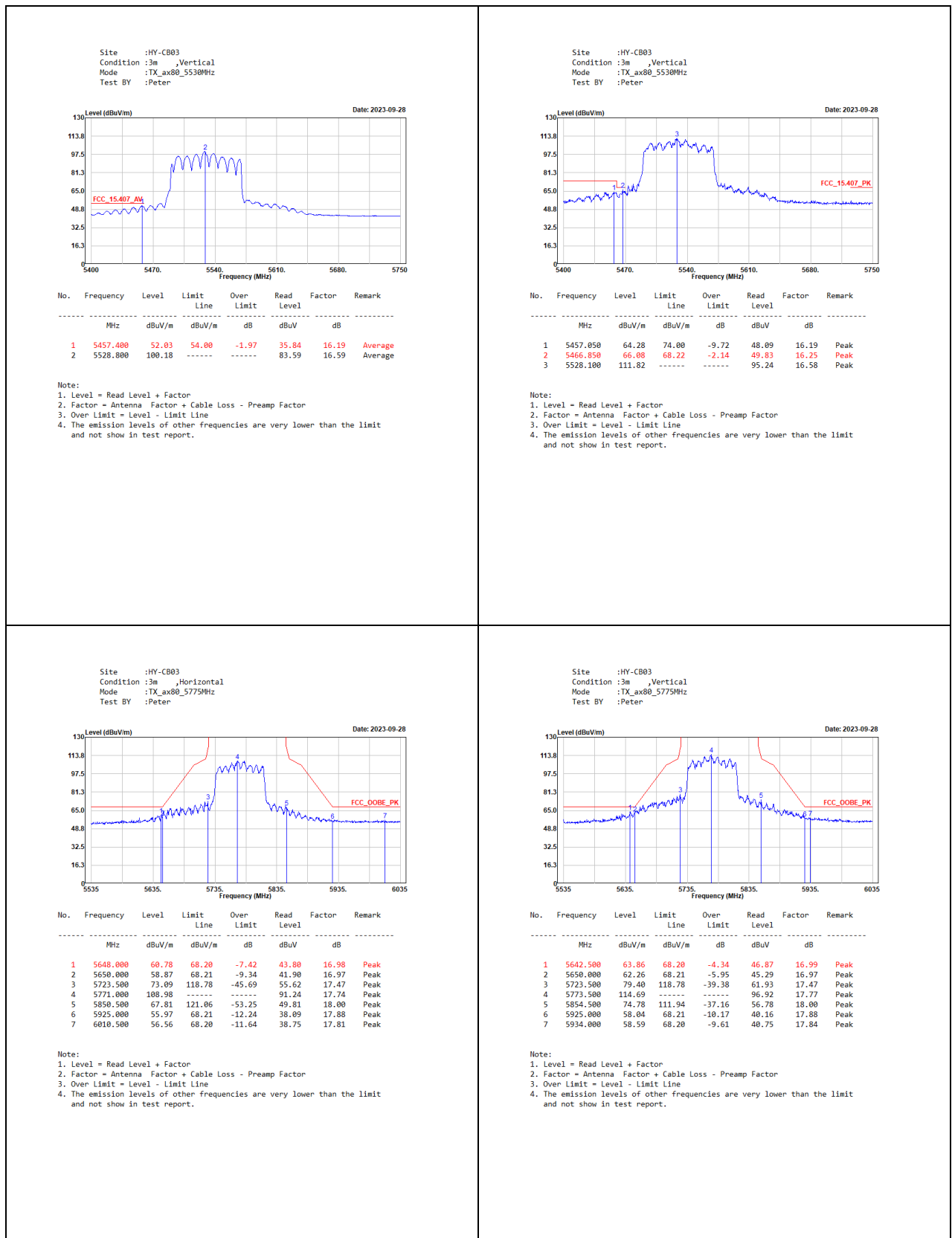


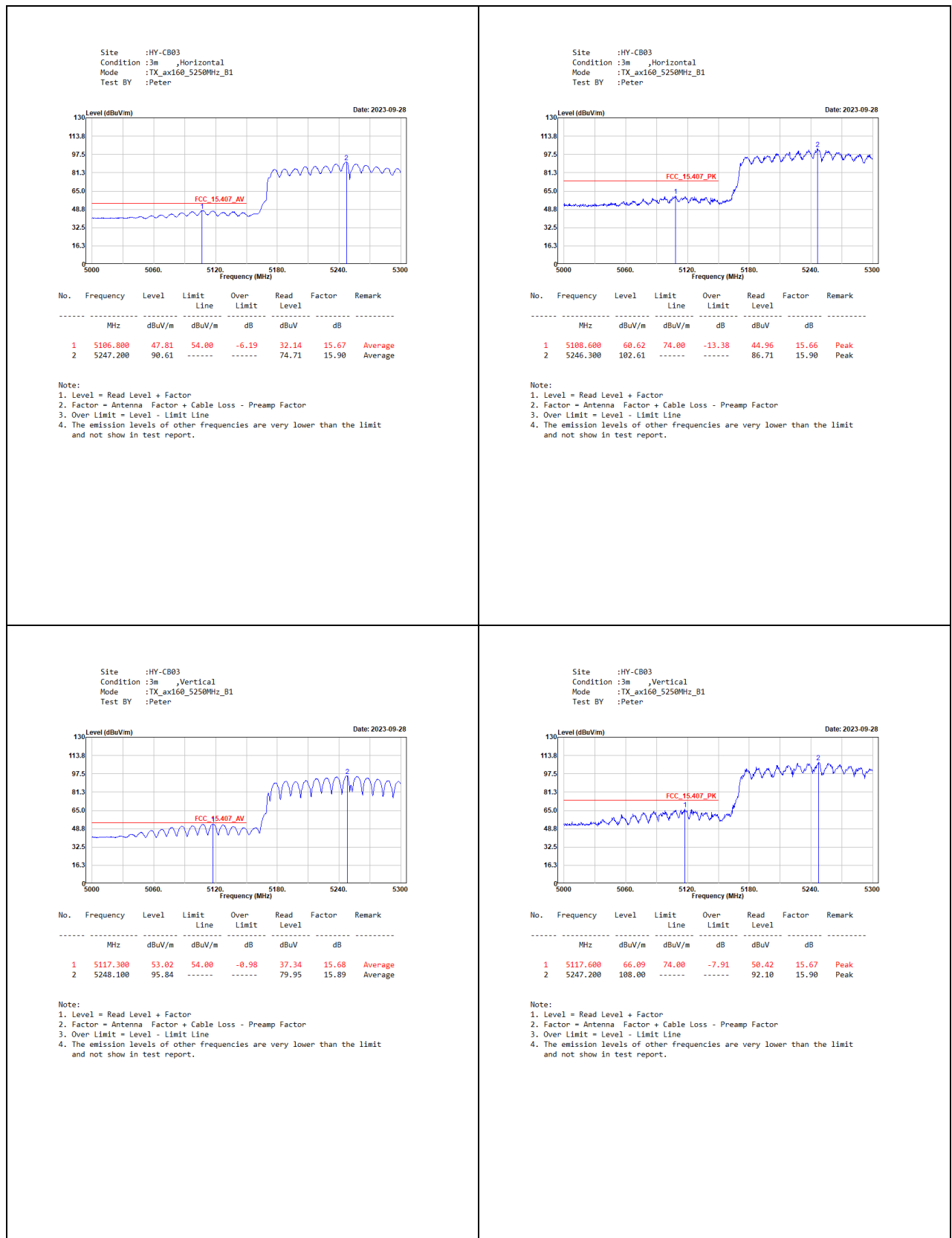


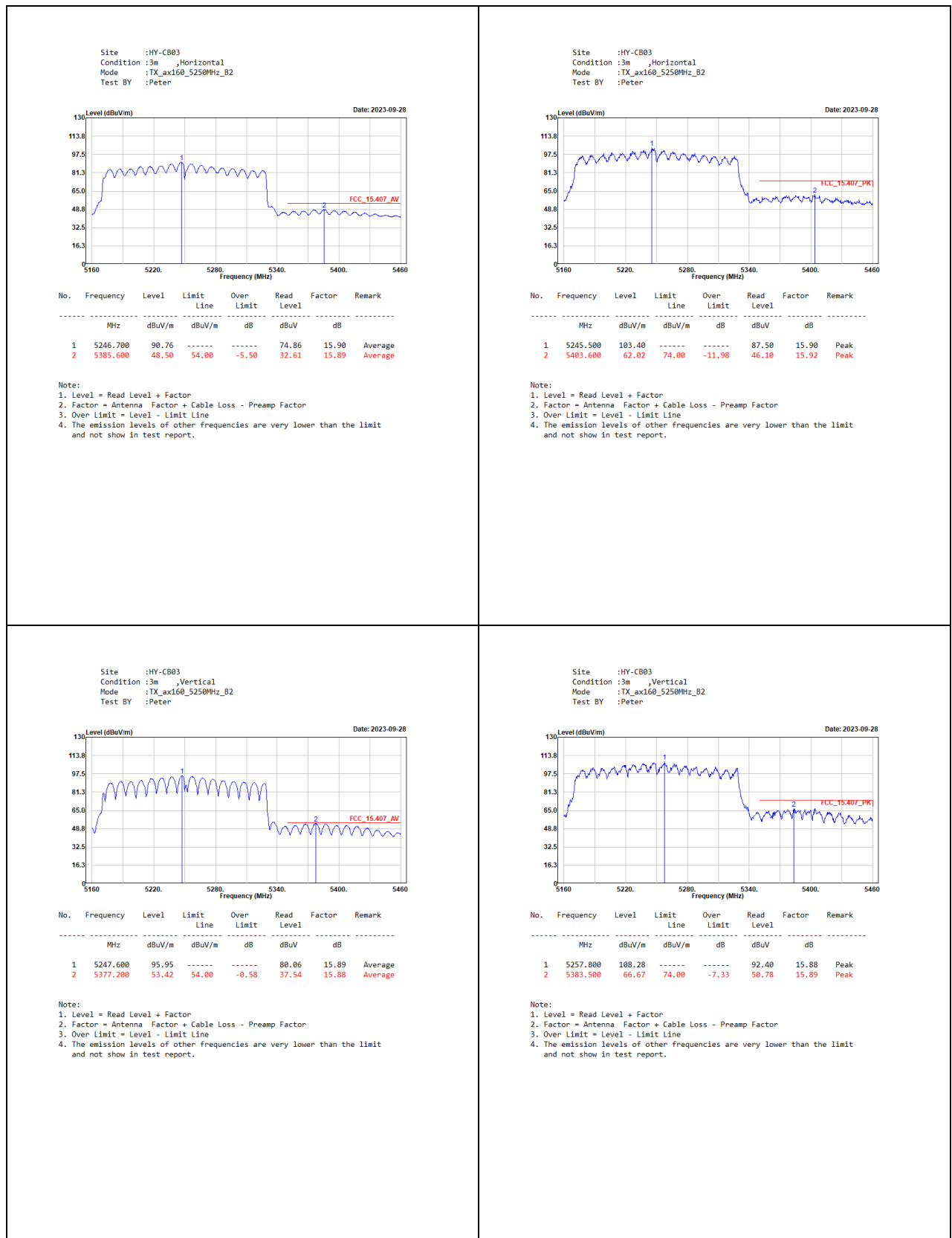


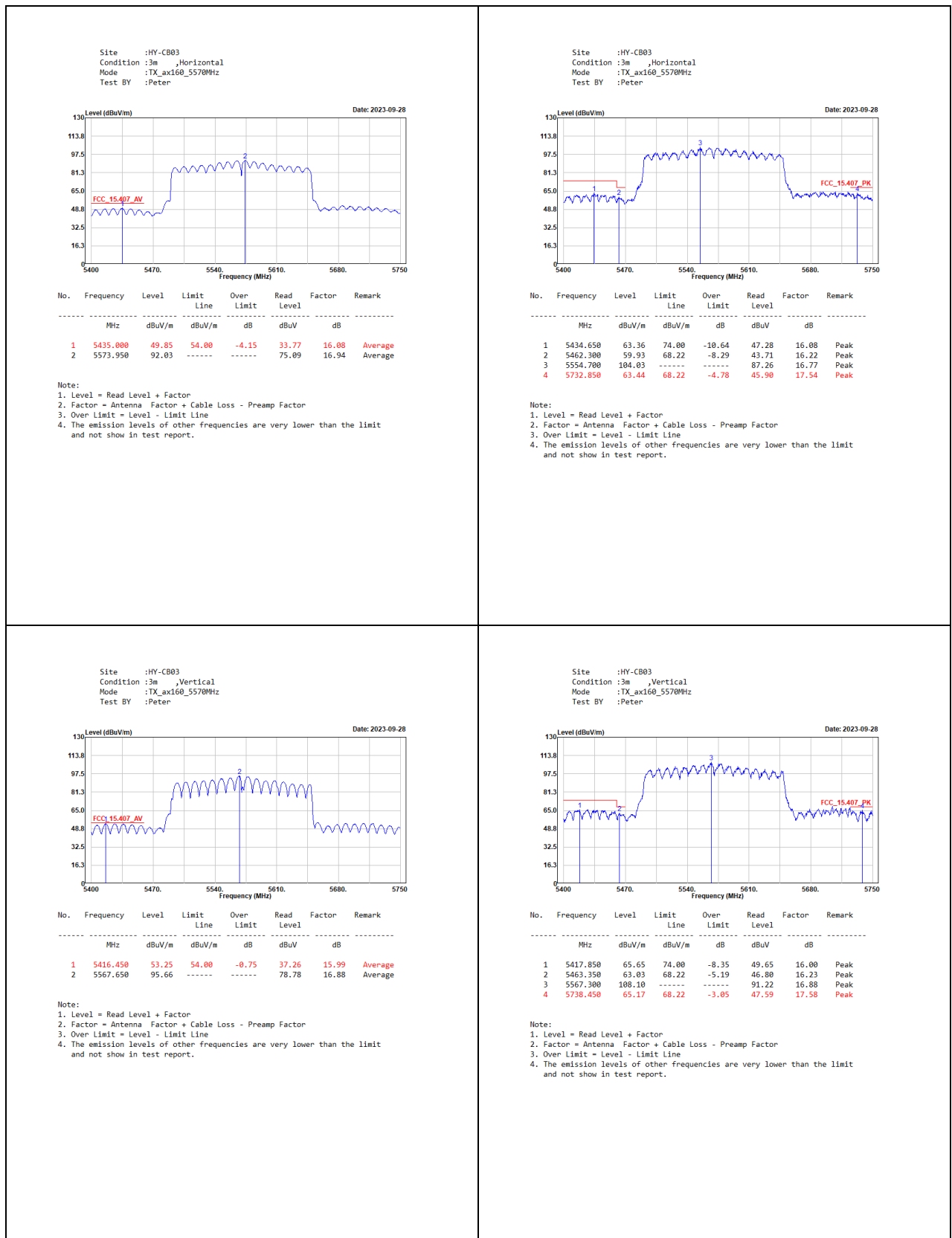






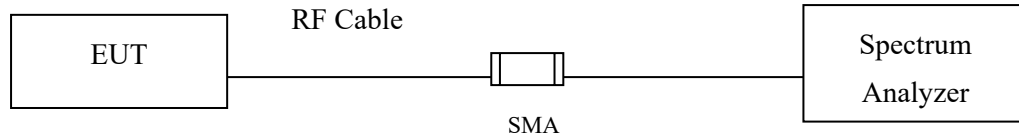






7. Occupied Bandwidth

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.

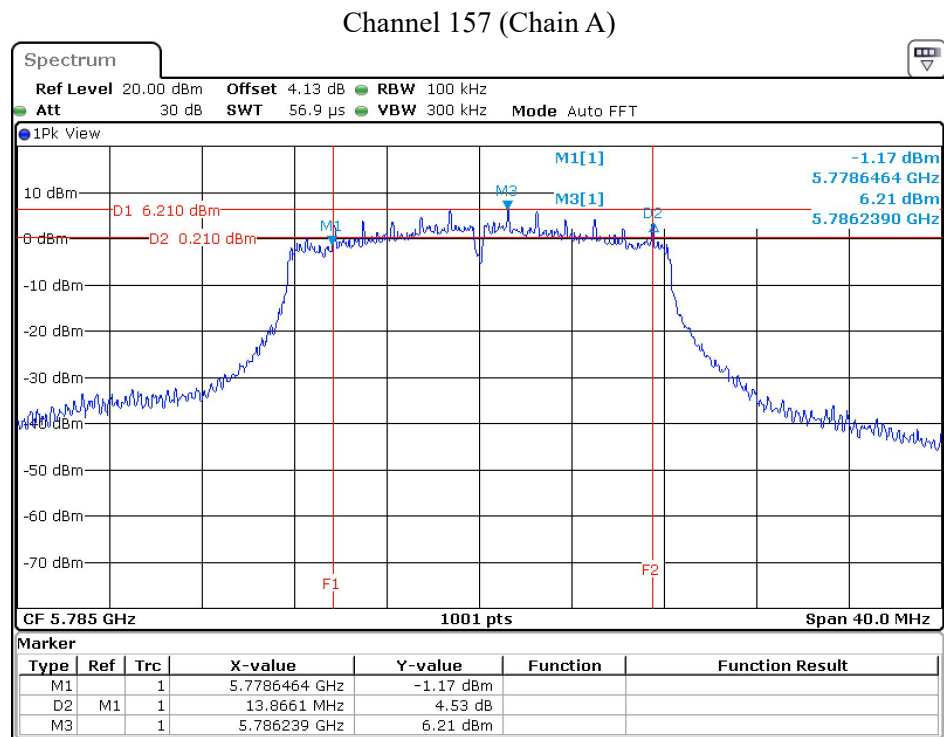
7.3. Test Procedure

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 : Set Back Box with Wi-Fi6E, BT & PoE
 Test Item : Occupied Bandwidth Data
 Test Mode : Transmit (802.11a)
 Test Date : 2023/09/15

Channel No.	Frequency (MHz)	Chain	Measurement Level (kHz)	Required Limit (kHz)	Result
149	5745	A	15105	>500	Pass
157	5785	A	13866	>500	Pass
165	5825	A	15105	>500	Pass
149	5745	B	15065	>500	Pass
157	5785	B	15065	>500	Pass
165	5825	B	15105	>500	Pass

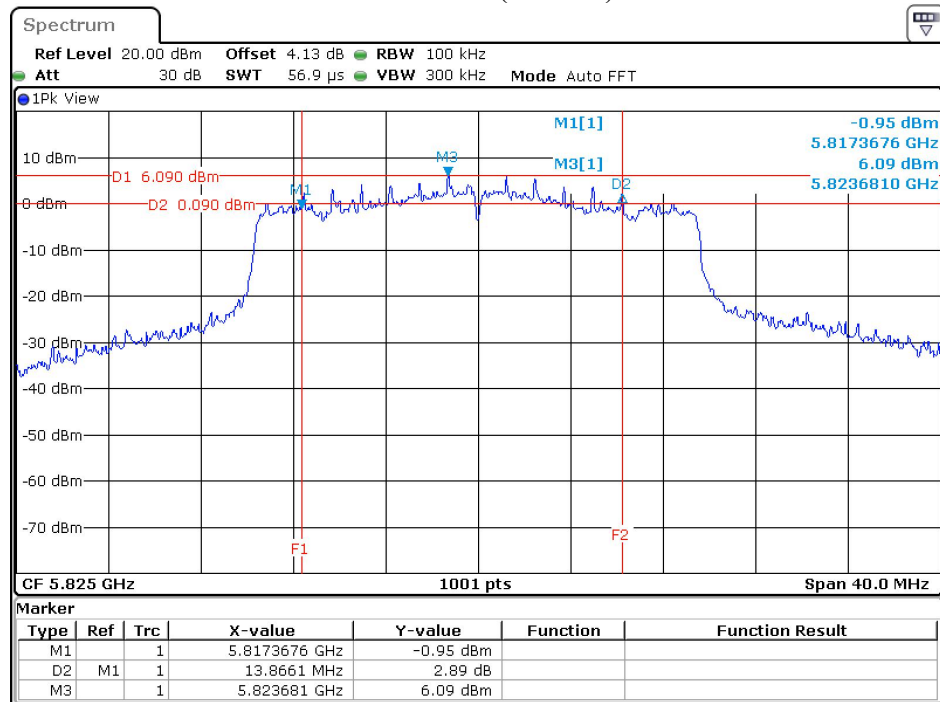


Date: 15.SEP.2023 20:40:10

Product : Set Back Box with Wi-Fi6E, BT & PoE
 Test Item : Occupied Bandwidth Data
 Test Mode : Transmit (802.11ax-20 MHz)
 Test Date : 2023/09/15

Channel No.	Frequency (MHz)	Chain	Measurement Level (kHz)	Required Limit (kHz)	Result
149	5745	A	16703	>500	Pass
157	5785	A	14985	>500	Pass
165	5825	A	13866	>500	Pass
149	5745	B	15385	>500	Pass
157	5785	B	15025	>500	Pass
165	5825	B	18102	>500	Pass

Channel 165 (Chain A)

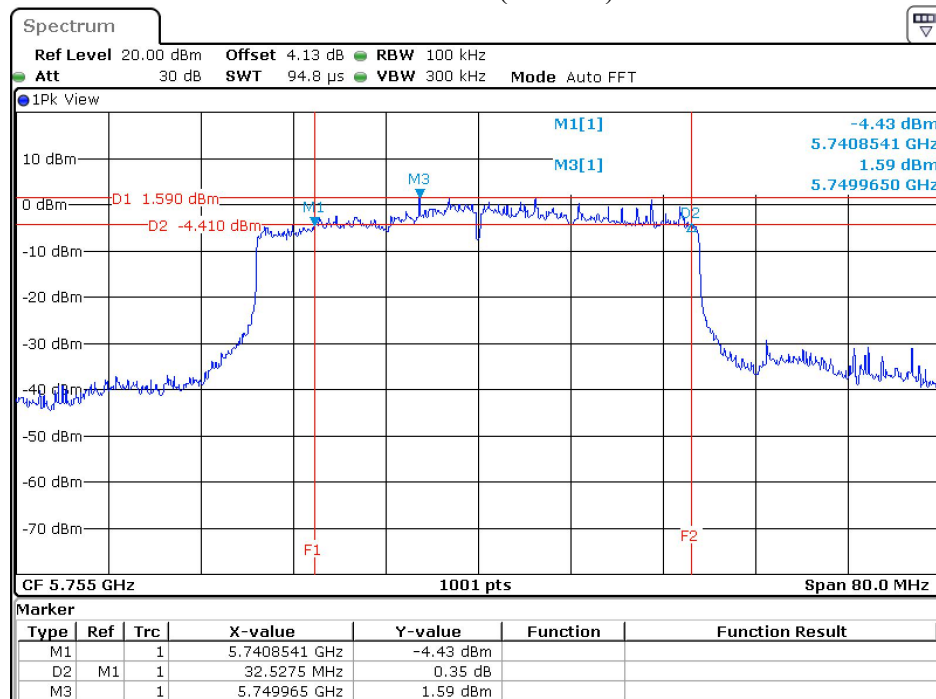


Date: 15.SEP.2023 22:28:03

Product : Set Back Box with Wi-Fi6E, BT & PoE
 Test Item : Occupied Bandwidth Data
 Test Mode : Transmit (802.11ax-40 MHz)
 Test Date : 2023/09/15

Channel No.	Frequency (MHz)	Chain	Measurement Level (kHz)	Required Limit (kHz)	Result
151	5755	A	35085	>500	Pass
159	5795	A	36284	>500	Pass
151	5755	B	32528	>500	Pass
159	5795	B	35085	>500	Pass

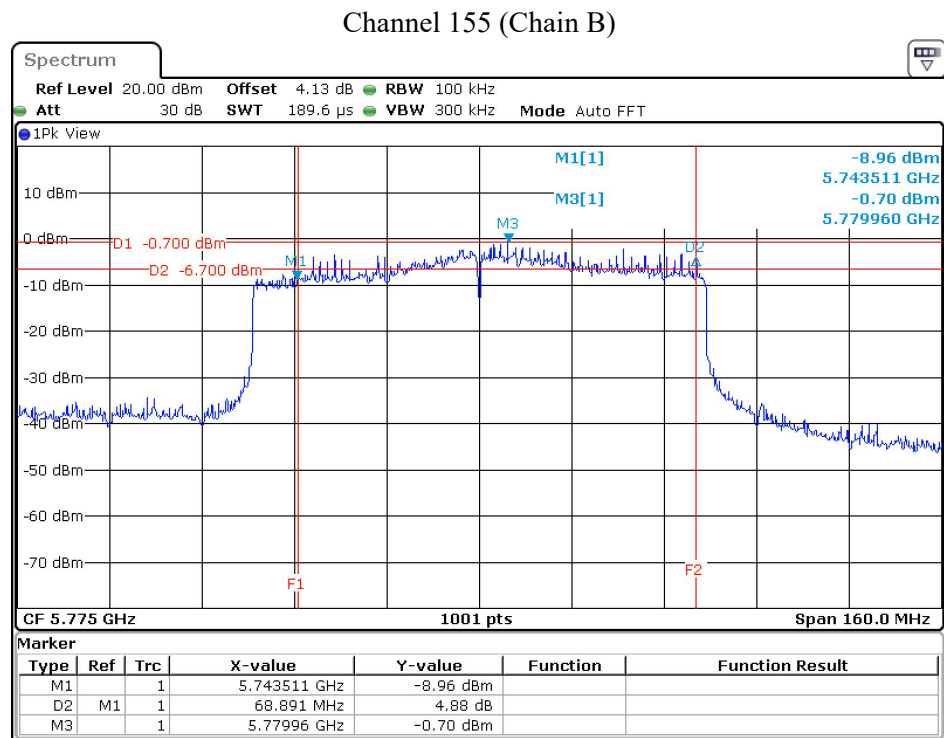
Channel 151 (Chain B)



Date: 15.SEP.2023 22:48:52

Product : Set Back Box with Wi-Fi6E, BT & PoE
 Test Item : Occupied Bandwidth Data
 Test Mode : Transmit (802.11ax-80 MHz)
 Test Date : 2023/09/15

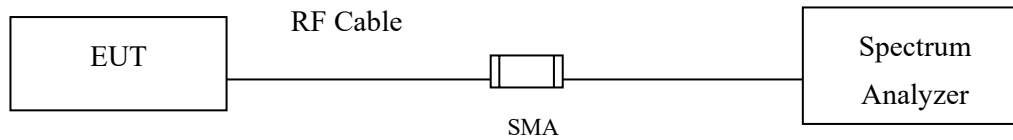
Channel No.	Frequency (MHz)	Chain	Measurement Level (kHz)	Required Limit (kHz)	Result
155	5775	A	68891	>500	Pass
155	5775	B	74965	>500	Pass



Date: 15.SEP.2023 23:04:48

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 : Set Back Box with Wi-Fi6E, BT & PoE
Test Item : Duty Cycle
Test Mode : Transmit

Duty Cycle Formula:

Duty Cycle = $T_{on} / (T_{on} + T_{off})$

Duty Factor = $10 \log (1/\text{Duty Cycle})$

Results:

5 GHz band	Time On (ms)	Time On + Time Off (ms)	Duty Cycle (%)	Duty Factor (dB)
802.11a	1.2240	2.0610	59.39	2.26
802.11ax-20 MHz	5.4000	6.3600	84.91	0.71
802.11ax-40 MHz	4.0800	4.5900	88.89	0.51
802.11ax-80 MHz	2.3250	2.6700	87.08	0.60
802.11ax-160 MHz	2.1450	2.4900	86.14	0.65

