



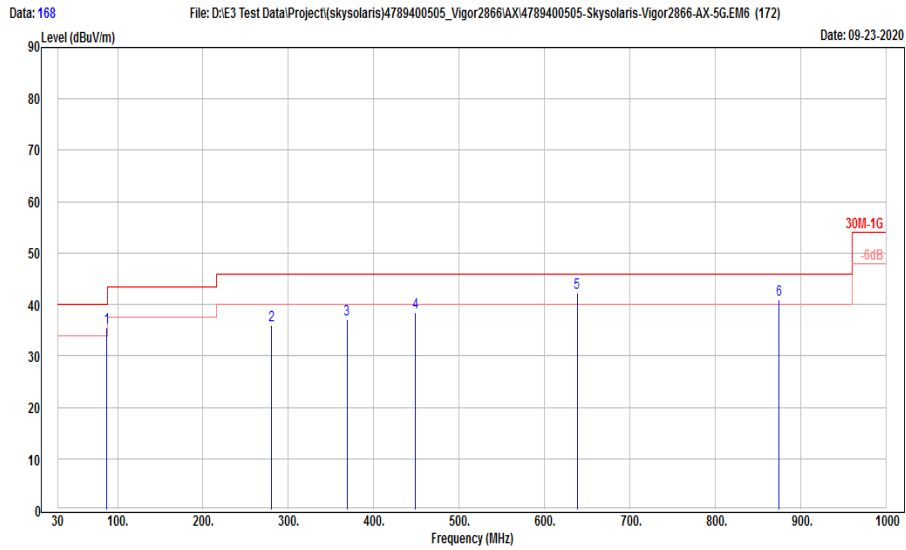
Co-Location Mode

Non-Beamforming mode

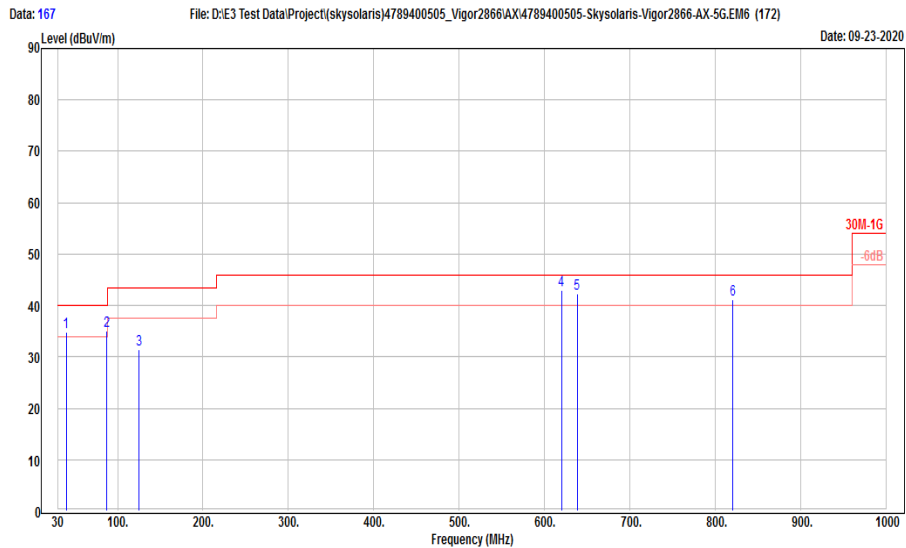
802.11b + 802.11a

EUT Test Condition		Measurement Detail	
Channel	Channel 11 + Channel 149	Frequency Range	30 MHz ~ 1 GHz

Horizontal



Vertical



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Antenna Polarity & Test Distance: Horizontal at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	87.23	52.99	-17.59	35.4	40	-4.6	Peak
-	280.26	46.31	-10.44	35.87	46	-10.13	Peak
-	368.53	44.94	-7.77	37.17	46	-8.83	Peak
-	449.04	44.23	-5.78	38.45	46	-7.55	Peak
-	638.19	43.52	-1.22	42.3	46	-3.7	Peak
-	874.87	38.32	2.5	40.82	46	-5.18	Peak

Antenna Polarity & Test Distance: Vertical at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	39.7	46.79	-11.91	34.88	40	-5.12	Peak
-	87.23	52.75	-17.59	35.16	40	-4.84	Peak
-	125.06	44.97	-13.51	31.46	43.5	-12.04	Peak
-	619.76	44.29	-1.29	43	46	-3	Peak
-	638.19	43.45	-1.22	42.23	46	-3.77	Peak
-	820.55	39.77	1.29	41.06	46	-4.94	Peak

Remarks:

1. Result value (dBuV/m) = Reading value (dBuV/m) + Correction Factor (dB/m).
2. Margin(dB) = Result value (dBuV/m) - Limit value (dBuV/m).
3. Correction Factor (dB/m) = Antenna Factor (dBuV/m) + Cable Loss (dB) - Preamp Factor (dB).
4. The peak result complies with QP limit, QP result is deemed to comply with QP limit.
5. The other emission levels were very low against the limit.

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Doc No: 17-EM-F0876 / 5.0

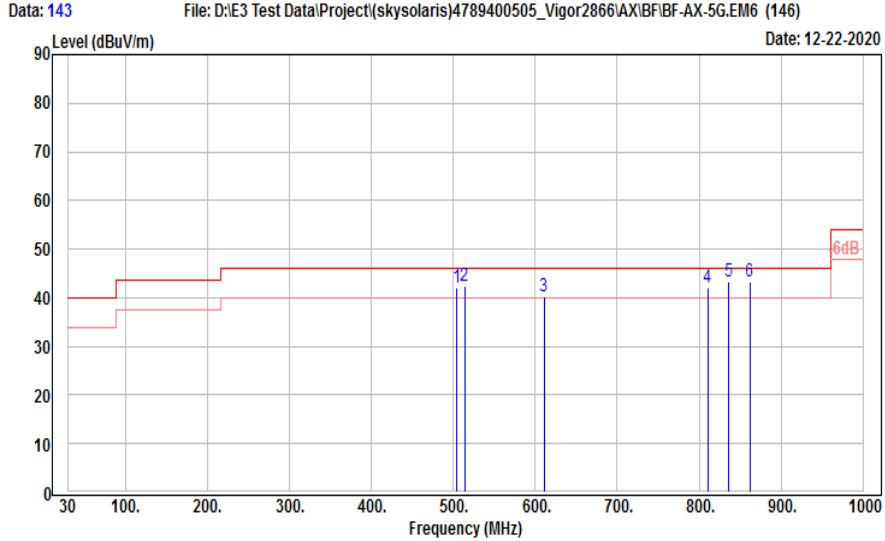


Beamforming mode

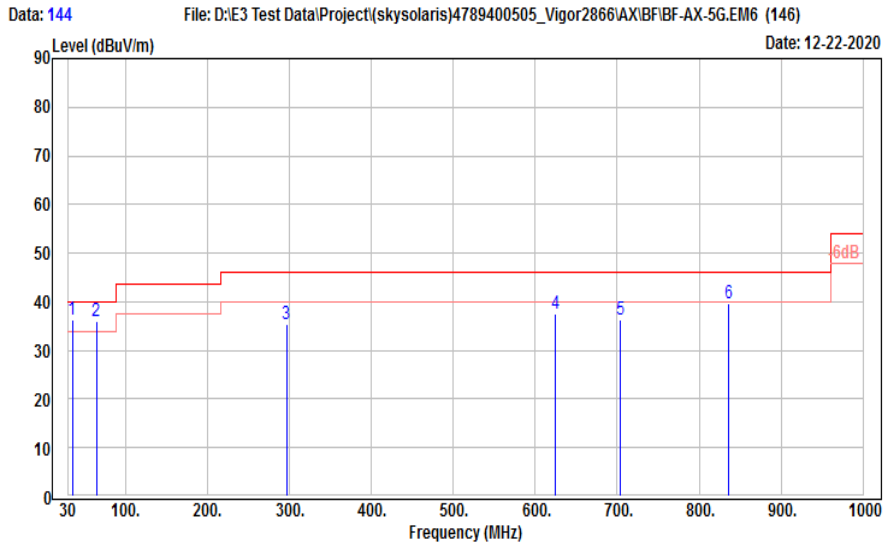
802.11ax (HE20) + 802.11ax (HE20)

EUT Test Condition		Measurement Detail	
Channel	Channel 6 + Channel 165	Frequency Range	30 MHz ~ 1 GHz

Horizontal



Vertical



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Antenna Polarity & Test Distance: Horizontal at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	504.33	46.58	-4.47	42.11	46	-3.89	Peak
-	514.03	46.53	-4.12	42.41	46	-3.59	Peak
-	611.03	42.46	-2.05	40.41	46	-5.59	Peak
-	810.85	40.98	1.2	42.18	46	-3.82	Peak
-	836.07	41.57	1.69	43.26	46	-2.74	Peak
-	862.26	41.26	2.08	43.34	46	-2.66	Peak

Antenna Polarity & Test Distance: Vertical at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	34.85	48.79	-12.39	36.4	40	-3.6	Peak
-	64.92	48.89	-12.76	36.13	40	-3.87	Peak
-	296.75	45.54	-10.17	35.37	46	-10.63	Peak
-	624.61	38.89	-1.33	37.56	46	-8.44	Peak
-	704.15	36.59	-0.4	36.19	46	-9.81	Peak
-	836.07	38.06	1.69	39.75	46	-6.25	Peak

Remarks:

1. Result value (dBuV/m) = Reading value (dBuV/m) + Correction Factor (dB/m).
2. Margin(dB) = Result value (dBuV/m) - Limit value (dBuV/m).
3. Correction Factor (dB/m) = Antenna Factor (dBuV/m) + Cable Loss (dB) - Preamp Factor (dB).
4. The peak result complies with QP limit, QP result is deemed to comply with QP limit.
5. The other emission levels were very low against the limit.

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Doc No: 17-EM-F0876 / 5.0



9.6. AC Power Line Conducted Emission

Requirements

Frequency (MHz)	Conducted limit (dB μ V)	
	Quasi-peak	Average
0.15 - 0.5	66 - 56	56 - 46
0.50 - 5.0	56	46
5.0 - 30	60	50

Note:

1. The lower limit shall apply at the transition frequencies.
2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

Test Procedures

- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- c. The frequency range from 150kHz to 30MHz was searched. Emission levels under (Limit - 20dB) was not recorded.

NOTE:

1. The resolution bandwidth and video bandwidth of test receiver is 9kHz for quasi-peak detection (QP) and average detection (AV) at frequency 0.15MHz-30MHz.

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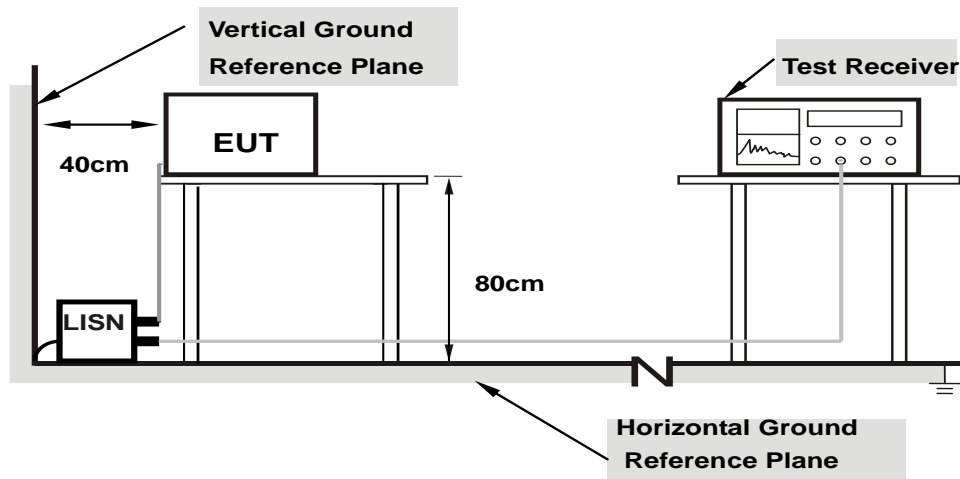
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Test Setup



Note: 1.Support units were connected to second LISN.

For the actual test configuration, please refer to the Setup Configurations.

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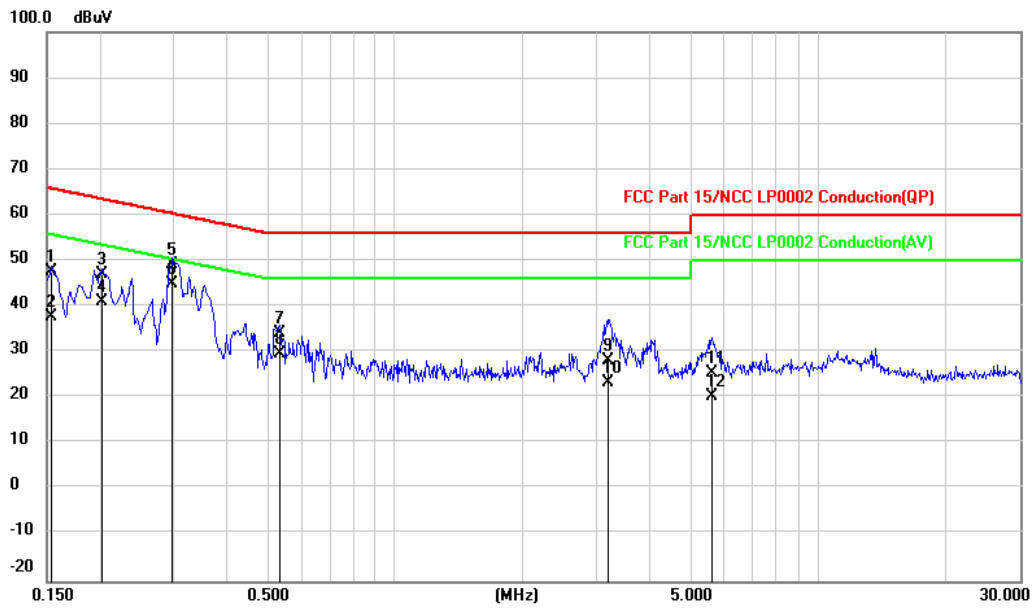
Test Data

Non-Beamforming Mode

802.11b

EUT Test Condition		Measurement Detail	
Channel	Channel 11	Frequency Range	150 kHz ~ 30 MHz

Phase of Power : Line (L)



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Doc No: 17-EM-F0876 / 5.0



Test report No. : 4789400505B-US-R0-V0
Page : 119 of 167
Issued date : Mar. 31, 2021
FCC ID : VGY2865AX

No.	Frequency (MHz)	Reading (dBuV)	Correct dB	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1539	28.15	19.54	47.69	65.79	-18.10	QP
2	0.1539	18.35	19.54	37.89	55.79	-17.90	AVG
3	0.2020	27.62	19.53	47.15	63.53	-16.38	QP
4	0.2020	21.59	19.53	41.12	53.53	-12.41	AVG
5	0.2980	29.52	19.52	49.04	60.30	-11.26	QP
6	0.2980	25.49	19.52	45.01	50.30	-5.29	AVG
7	0.5340	14.55	19.52	34.07	56.00	-21.93	QP
8	0.5340	9.99	19.52	29.51	46.00	-16.49	AVG
9	3.1740	8.55	19.57	28.12	56.00	-27.88	QP
10	3.1740	3.69	19.57	23.26	46.00	-22.74	AVG
11	5.6140	5.94	19.60	25.54	60.00	-34.46	QP
12	5.6140	0.63	19.60	20.23	50.00	-29.77	AVG

Remarks:

1. Result value (dBuV) = Reading value (dBuV) + Correction Factor (dB)
2. Margin(dB) = Result value (dBuV) - Limit value (dBuV)
3. Correction Factor(dB) = Insertion loss(dB) + Cable loss(dB)
4. The other emission levels were very low against the limit.

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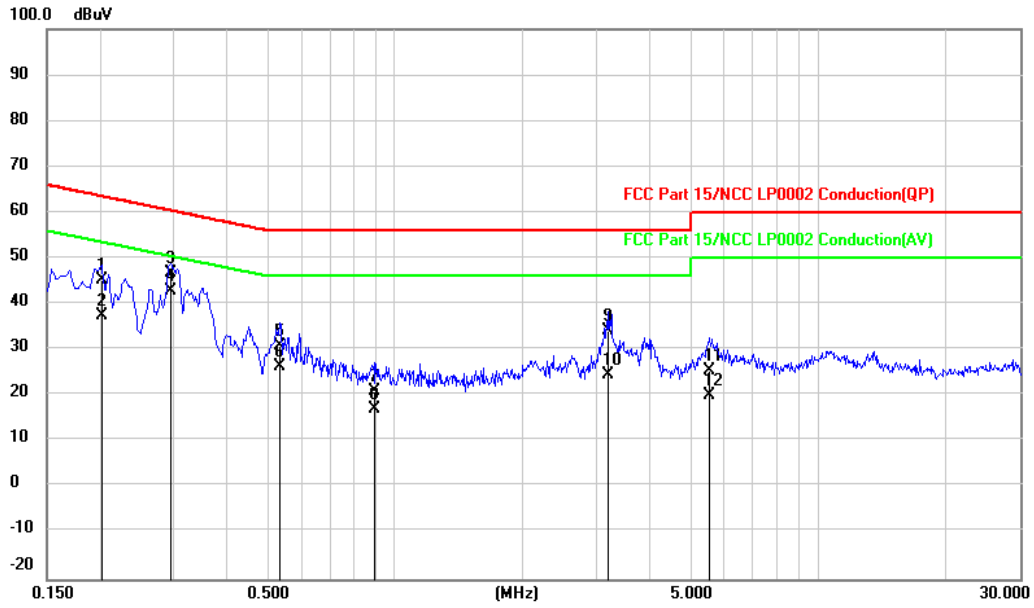
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Phase of Power : Neutral (N)



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Doc No: 17-EM-F0876 / 5.0



Test report No. : 4789400505B-US-R0-V0
Page : 121 of 167
Issued date : Mar. 31, 2021
FCC ID : VGY2865AX

No.	Frequency (MHz)	Reading (dBuV)	Correct dB	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.2020	25.83	19.53	45.36	63.53	-18.17	QP
2	0.2020	18.03	19.53	37.56	53.53	-15.97	AVG
3	0.2940	27.34	19.53	46.87	60.41	-13.54	QP
4	0.2940	23.28	19.53	42.81	50.41	-7.60	AVG
5	0.5340	11.41	19.52	30.93	56.00	-25.07	QP
6	0.5340	6.80	19.52	26.32	46.00	-19.68	AVG
7	0.8900	1.41	19.53	20.94	56.00	-35.06	QP
8	0.8900	-2.56	19.53	16.97	46.00	-29.03	AVG
9	3.2060	14.74	19.56	34.30	56.00	-21.70	QP
10	3.2060	4.98	19.56	24.54	46.00	-21.46	AVG
11	5.5340	5.80	19.60	25.40	60.00	-34.60	QP
12	5.5340	0.55	19.60	20.15	50.00	-29.85	AVG

Remarks:

1. Result value (dBuV) = Reading value (dBuV) + Correction Factor (dB)
2. Margin(dB) = Result value (dBuV) - Limit value (dBuV)
3. Correction Factor(dB) = Insertion loss(dB) + Cable loss(dB)
4. The other emission levels were very low against the limit.

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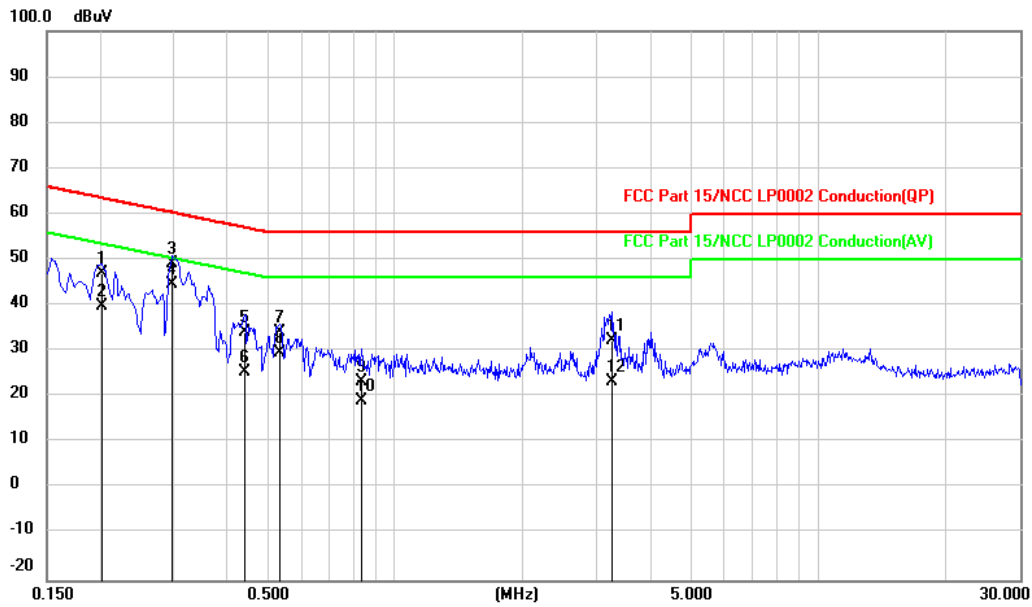


Beamforming mode

802.11ax (HE20)

EUT Test Condition		Measurement Detail	
Channel	Channel 6	Frequency Range	150 kHz ~ 30 MHz

Phase of Power : Line (L)



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Doc No: 17-EM-F0876 / 5.0



Test report No. : 4789400505B-US-R0-V0
Page : 123 of 167
Issued date : Mar. 31, 2021
FCC ID : VGY2865AX

No.	Frequency (MHz)	Reading (dBuV)	Correct dB	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.2020	27.57	19.53	47.10	63.53	-16.43	QP
2	0.2020	20.47	19.53	40.00	53.53	-13.53	AVG
3	0.2980	29.58	19.52	49.10	60.30	-11.20	QP
4	0.2980	25.12	19.52	44.64	50.30	-5.66	AVG
5	0.4420	14.70	19.51	34.21	57.02	-22.81	QP
6	0.4420	5.89	19.51	25.40	47.02	-21.62	AVG
7	0.5340	14.55	19.52	34.07	56.00	-21.93	QP
8	0.5340	10.04	19.52	29.56	46.00	-16.44	AVG
9	0.8340	3.96	19.54	23.50	56.00	-32.50	QP
10	0.8340	-0.40	19.54	19.14	46.00	-26.86	AVG
11	3.2500	12.88	19.57	32.45	56.00	-23.55	QP
12	3.2500	3.80	19.57	23.37	46.00	-22.63	AVG

Remarks:

1. Result value (dBuV) = Reading value (dBuV) + Correction Factor (dB)
2. Margin(dB) = Result value (dBuV) - Limit value (dBuV)
3. Correction Factor(dB) = Insertion loss(dB) + Cable loss(dB)
4. The other emission levels were very low against the limit.

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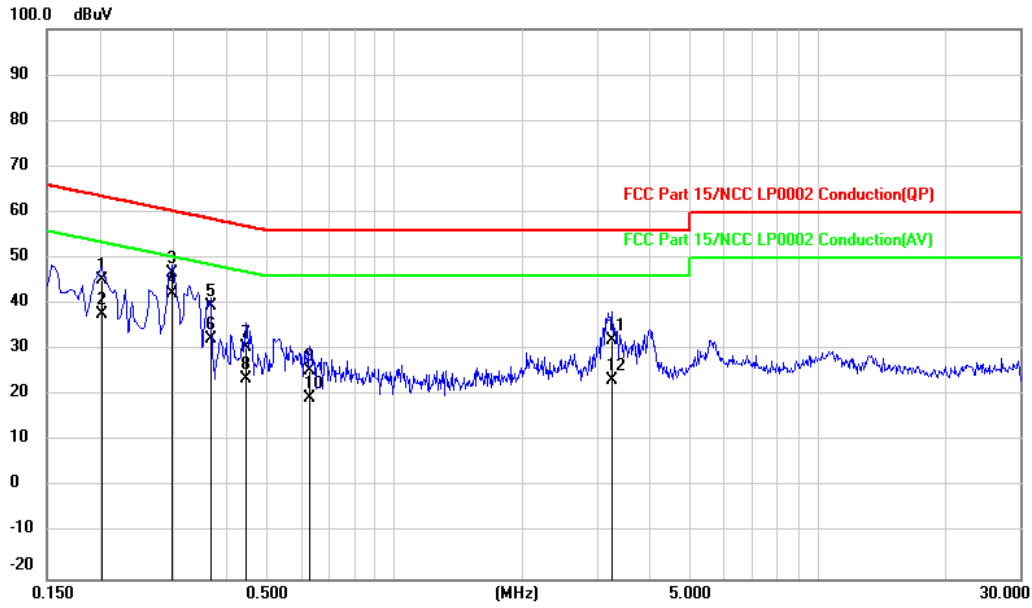
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Phase of Power : Neutral (N)



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Doc No: 17-EM-F0876 / 5.0



Test report No. : 4789400505B-US-R0-V0
Page : 125 of 167
Issued date : Mar. 31, 2021
FCC ID : VGY2865AX

No.	Frequency (MHz)	Reading (dBuV)	Correct dB	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.2020	25.80	19.53	45.33	63.53	-18.20	QP
2	0.2020	18.23	19.53	37.76	53.53	-15.77	AVG
3	0.2980	27.26	19.53	46.79	60.30	-13.51	QP
4	0.2980	22.62	19.53	42.15	50.30	-8.15	AVG
5	0.3660	20.09	19.51	39.60	58.59	-18.99	QP
6	0.3660	12.72	19.51	32.23	48.59	-16.36	AVG
7	0.4460	10.98	19.51	30.49	56.95	-26.46	QP
8	0.4460	4.01	19.51	23.52	46.95	-23.43	AVG
9	0.6300	5.88	19.52	25.40	56.00	-30.60	QP
10	0.6300	-0.15	19.52	19.37	46.00	-26.63	AVG
11	3.2700	12.47	19.56	32.03	56.00	-23.97	QP
12	3.2700	3.81	19.56	23.37	46.00	-22.63	AVG

Remarks:

1. Result value (dBuV) = Reading value (dBuV) + Correction Factor (dB)
2. Margin(dB) = Result value (dBuV) - Limit value (dBuV)
3. Correction Factor(dB) = Insertion loss(dB) + Cable loss(dB)
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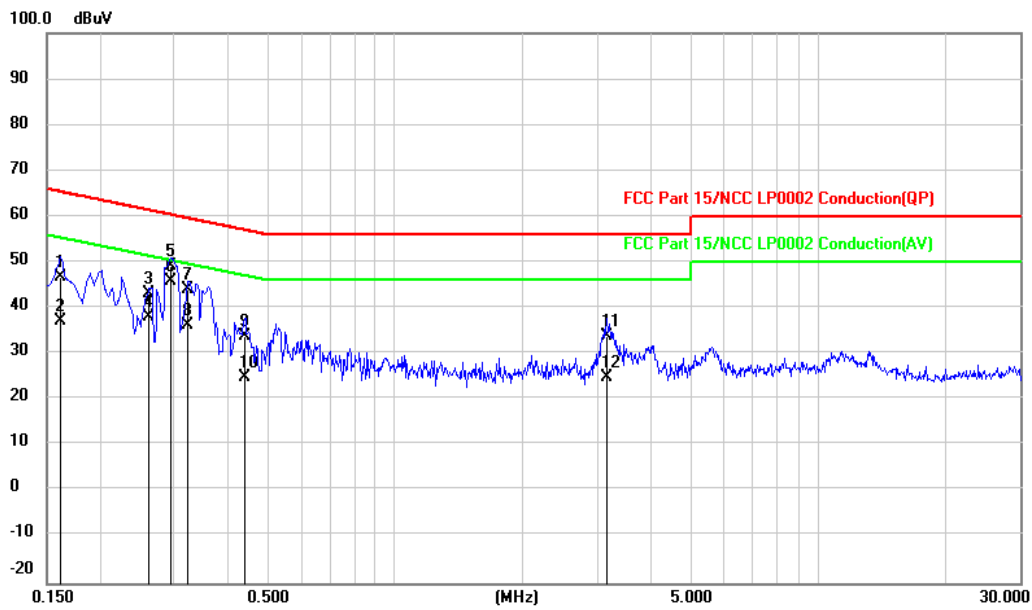
Co-Location Mode

Non-Beamforming mode

802.11b + 802.11a

EUT Test Condition		Measurement Detail	
Channel	Channel 11 + Channel 149	Frequency Range	150 kHz ~ 30 MHz

Phase of Power : Line (L)



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Doc No: 17-EM-F0876 / 5.0



Test report No. : 4789400505B-US-R0-V0
Page : 127 of 167
Issued date : Mar. 31, 2021
FCC ID : VGY2865AX

No.	Frequency (MHz)	Reading (dBuV)	Correct dB	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1620	27.22	19.54	46.76	65.36	-18.60	QP
2	0.1620	17.75	19.54	37.29	55.36	-18.07	AVG
3	0.2620	23.61	19.53	43.14	61.37	-18.23	QP
4	0.2620	18.56	19.53	38.09	51.37	-13.28	AVG
5	0.2940	29.76	19.53	49.29	60.41	-11.12	QP
6	0.2940	26.38	19.53	45.91	50.41	-4.50	AVG
7	0.3220	24.42	19.51	43.93	59.66	-15.73	QP
8	0.3220	16.79	19.51	36.30	49.66	-13.36	AVG
9	0.4420	14.42	19.51	33.93	57.02	-23.09	QP
10	0.4420	5.49	19.51	25.00	47.02	-22.02	AVG
11	3.1660	14.27	19.57	33.84	56.00	-22.16	QP
12	3.1660	5.19	19.57	24.76	46.00	-21.24	AVG

Remarks:

1. Result value (dBuV) = Reading value (dBuV) + Correction Factor (dB)
2. Margin(dB) = Result value (dBuV) - Limit value (dBuV)
3. Correction Factor(dB) = Insertion loss(dB) + Cable loss(dB)
4. The other emission levels were very low against the limit.

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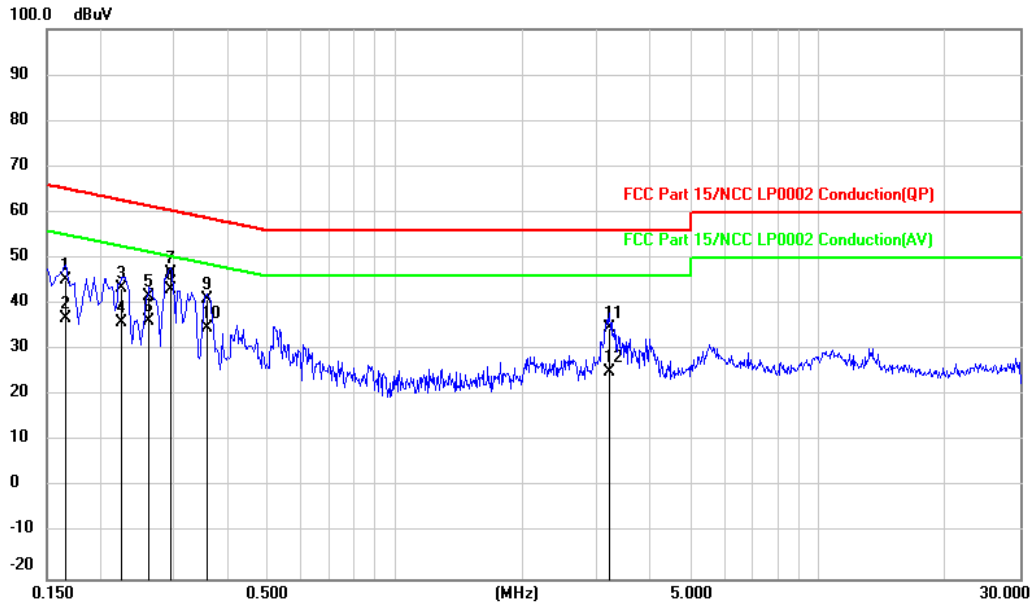
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Phase of Power : Neutral (N)



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Test report No. : 4789400505B-US-R0-V0
Page : 129 of 167
Issued date : Mar. 31, 2021
FCC ID : VGY2865AX

No.	Frequency (MHz)	Reading (dBuV)	Correct dB	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1660	25.68	19.54	45.22	65.16	-19.94	QP
2	0.1660	17.31	19.54	36.85	55.16	-18.31	AVG
3	0.2260	23.82	19.53	43.35	62.60	-19.25	QP
4	0.2260	16.39	19.53	35.92	52.60	-16.68	AVG
5	0.2620	22.09	19.53	41.62	61.37	-19.75	QP
6	0.2620	16.63	19.53	36.16	51.37	-15.21	AVG
7	0.2940	27.21	19.53	46.74	60.41	-13.67	QP
8	0.2940	23.49	19.53	43.02	50.41	-7.39	AVG
9	0.3580	21.53	19.51	41.04	58.77	-17.73	QP
10	0.3580	15.27	19.51	34.78	48.77	-13.99	AVG
11	3.2100	15.14	19.56	34.70	56.00	-21.30	QP
12	3.2100	5.71	19.56	25.27	46.00	-20.73	AVG

Remarks:

1. Result value (dBuV) = Reading value (dBuV) + Correction Factor (dB)
2. Margin(dB) = Result value (dBuV) - Limit value (dBuV)
3. Correction Factor(dB) = Insertion loss(dB) + Cable loss(dB)
4. The other emission levels were very low against the limit.

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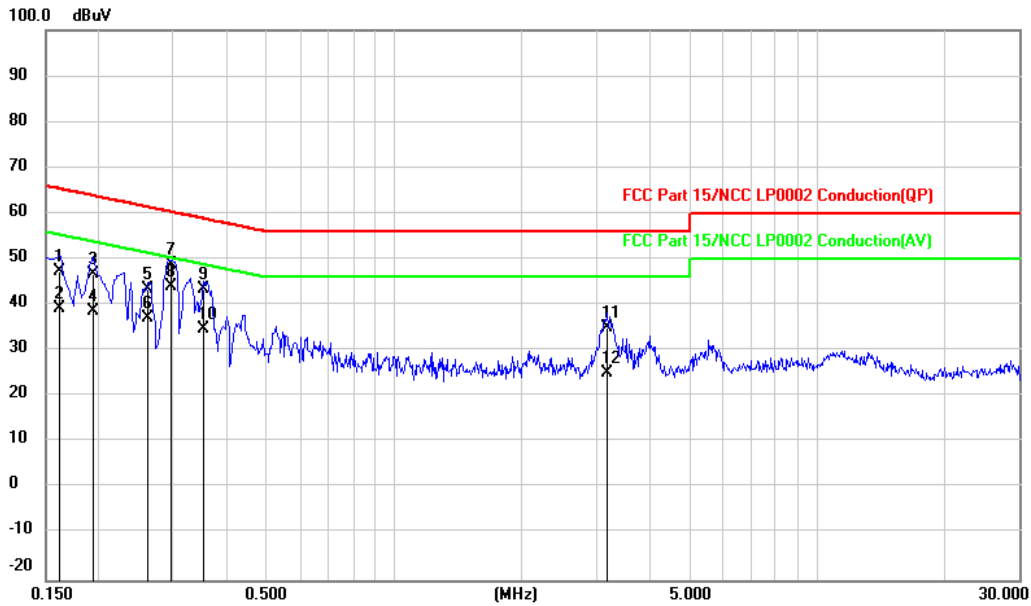


Beamforming mode

802.11ax (HE20) + 802.11ax (HE20)

EUT Test Condition		Measurement Detail	
Channel	Channel 6 + Channel 165	Frequency Range	150 kHz ~ 30 MHz

Phase of Power : Line (L)



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Test report No. : 4789400505B-US-R0-V0
Page : 131 of 167
Issued date : Mar. 31, 2021
FCC ID : VGY2865AX

No.	Frequency (MHz)	Reading (dBuV)	Correct dB	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1620	27.94	19.54	47.48	65.36	-17.88	QP
2	0.1620	19.67	19.54	39.21	55.36	-16.15	AVG
3	0.1940	27.26	19.53	46.79	63.86	-17.07	QP
4	0.1940	19.12	19.53	38.65	53.86	-15.21	AVG
5	0.2620	23.81	19.53	43.34	61.37	-18.03	QP
6	0.2620	17.58	19.53	37.11	51.37	-14.26	AVG
7	0.2980	29.42	19.53	48.95	60.30	-11.35	QP
8	0.2980	24.58	19.53	44.11	50.30	-6.19	AVG
9	0.3540	23.91	19.51	43.42	58.87	-15.45	QP
10	0.3540	15.35	19.51	34.86	48.87	-14.01	AVG
11	3.2060	15.45	19.57	35.02	56.00	-20.98	QP
12	3.2060	5.52	19.57	25.09	46.00	-20.91	AVG

Remarks:

1. Result value (dBuV) = Reading value (dBuV) + Correction Factor (dB)
2. Margin(dB) = Result value (dBuV) - Limit value (dBuV)
3. Correction Factor(dB) = Insertion loss(dB) + Cable loss(dB)
4. The other emission levels were very low against the limit.

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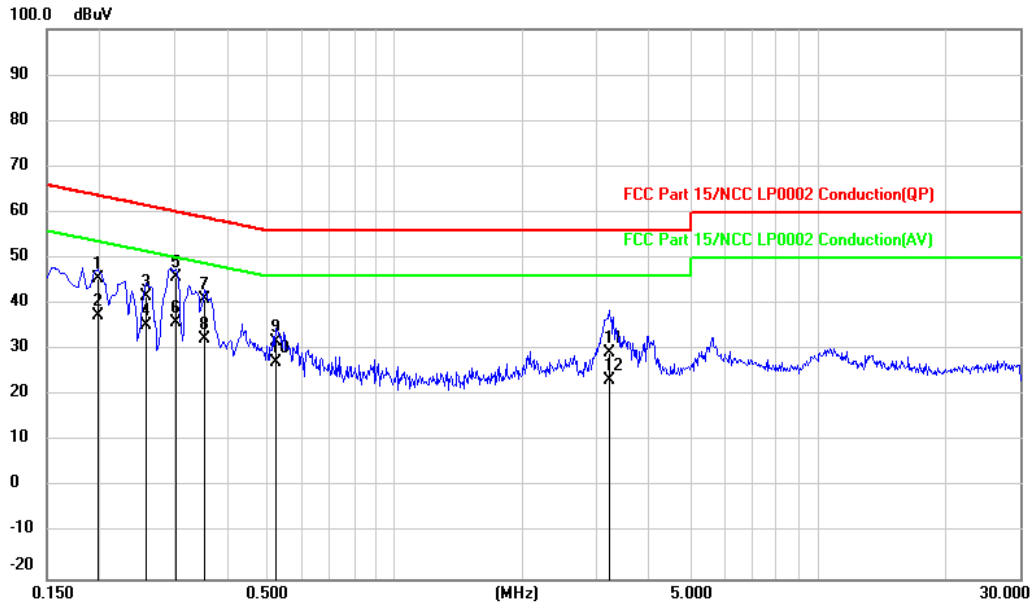
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Facsimile (FAX) :+886-3-583-7948

Doc No: 17-EM-F0876 / 5.0



Phase of Power : Neutral (N)



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Doc No: 17-EM-F0876 / 5.0



Test report No. : 4789400505B-US-R0-V0
Page : 133 of 167
Issued date : Mar. 31, 2021
FCC ID : VGY2865AX

No.	Frequency (MHz)	Reading (dBuV)	Correct dB	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1980	25.96	19.53	45.49	63.69	-18.20	QP
2	0.1980	17.97	19.53	37.50	53.69	-16.19	AVG
3	0.2580	22.22	19.53	41.75	61.50	-19.75	QP
4	0.2580	15.84	19.53	35.37	51.50	-16.13	AVG
5	0.3020	26.21	19.51	45.72	60.19	-14.47	QP
6	0.3020	16.47	19.51	35.98	50.19	-14.21	AVG
7	0.3540	21.64	19.51	41.15	58.87	-17.72	QP
8	0.3540	12.95	19.51	32.46	48.87	-16.41	AVG
9	0.5220	12.35	19.52	31.87	56.00	-24.13	QP
10	0.5220	7.86	19.52	27.38	46.00	-18.62	AVG
11	3.2100	9.92	19.56	29.48	56.00	-26.52	QP
12	3.2100	3.81	19.56	23.37	46.00	-22.63	AVG

Remarks:

1. Result value (dBuV) = Reading value (dBuV) + Correction Factor (dB)
2. Margin(dB) = Result value (dBuV) - Limit value (dBuV)
3. Correction Factor(dB) = Insertion loss(dB) + Cable loss(dB)
4. The other emission levels were very low against the limit.

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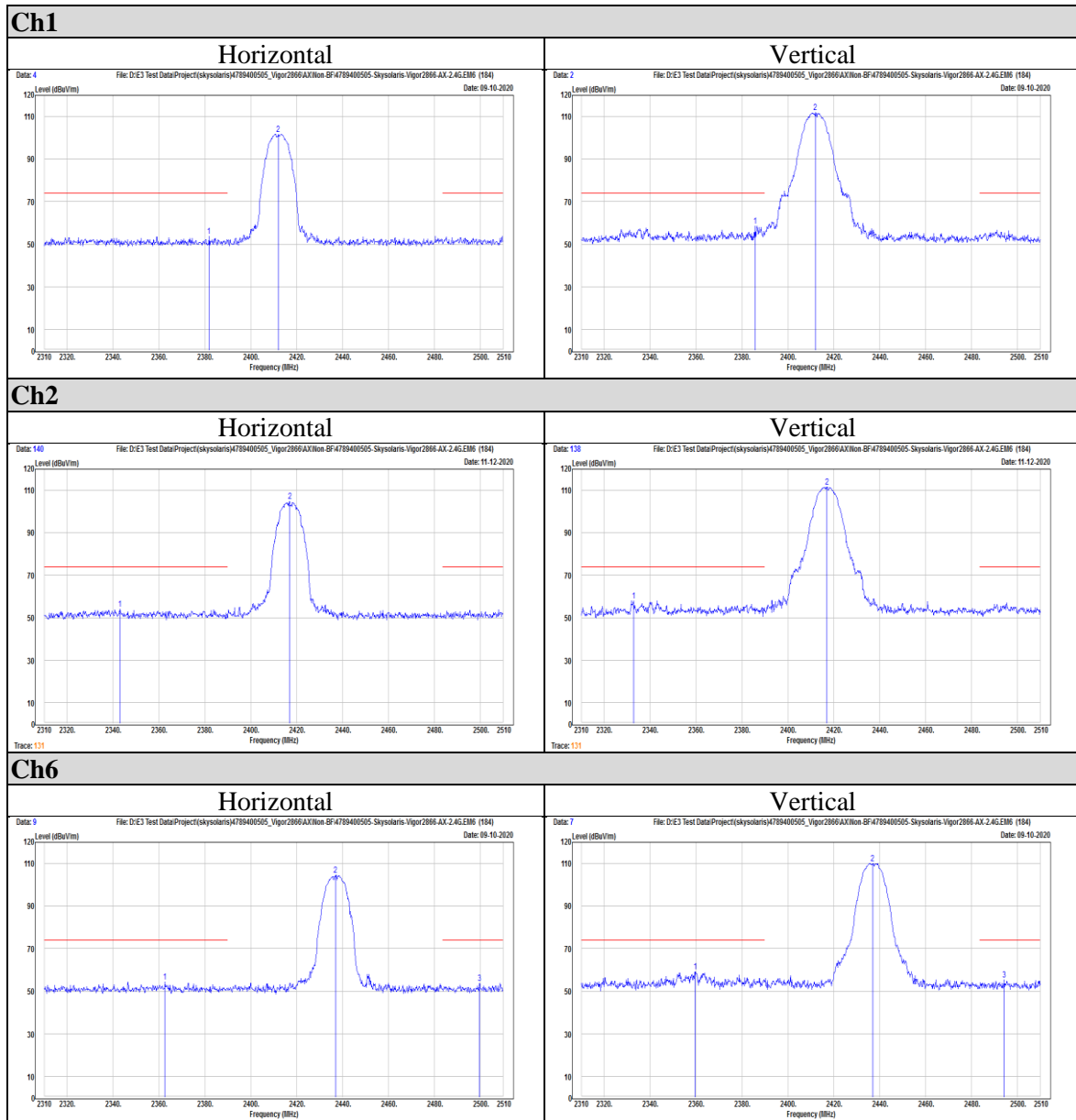


Appendix I Radiated Band Edge Measurement

Non-Beamforming Mode

802.11b

Peak



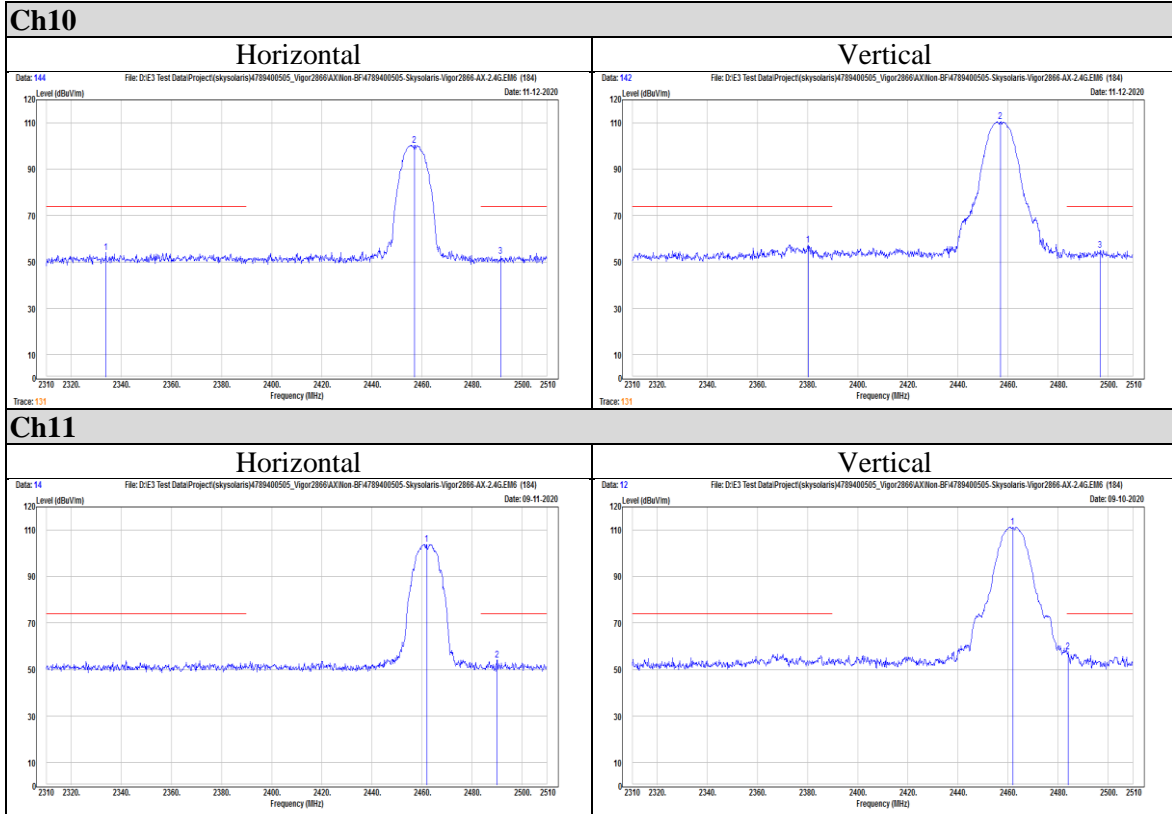
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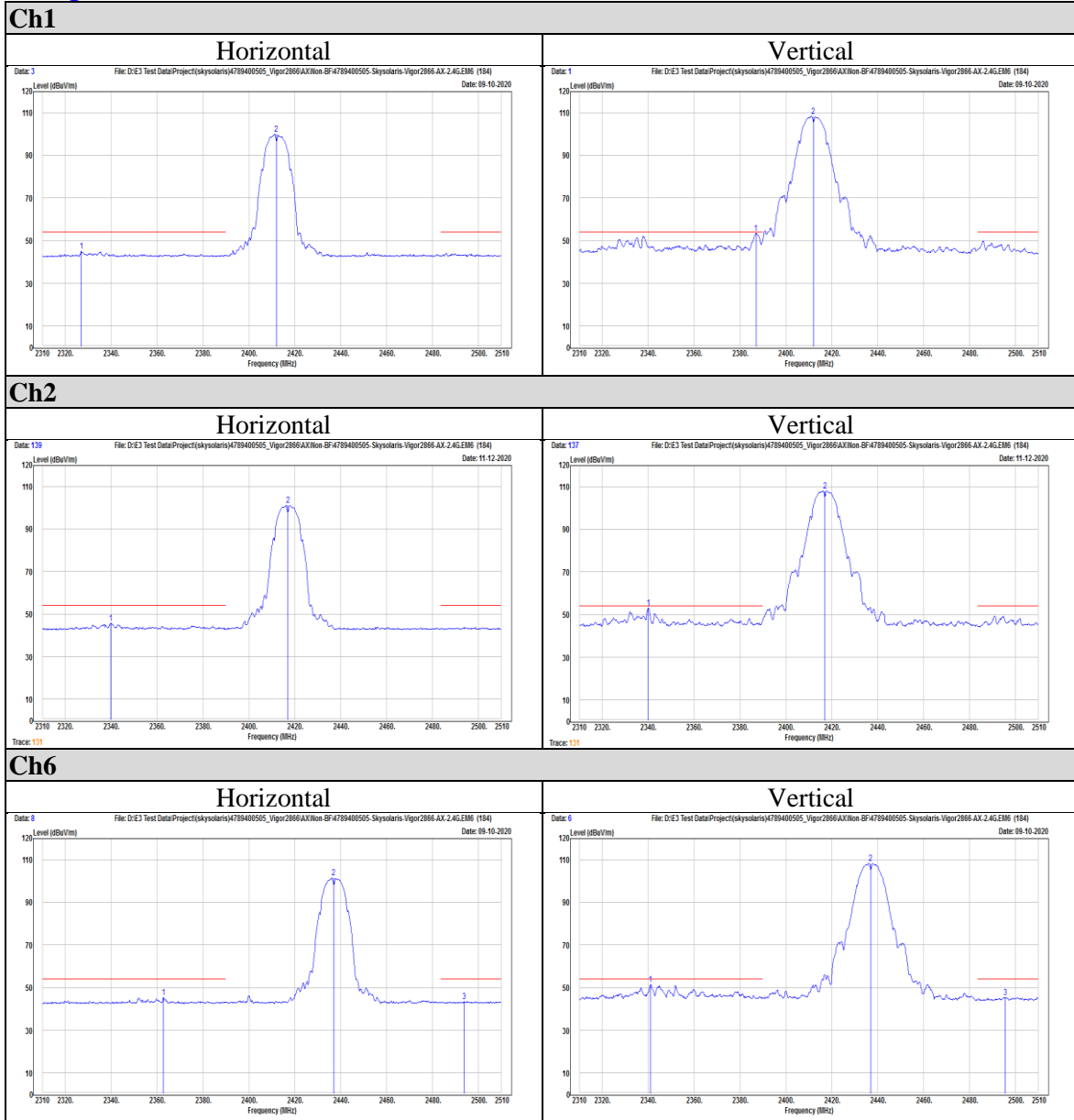
Building B and Building E, No. 372-7, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu County, Taiwan

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Average

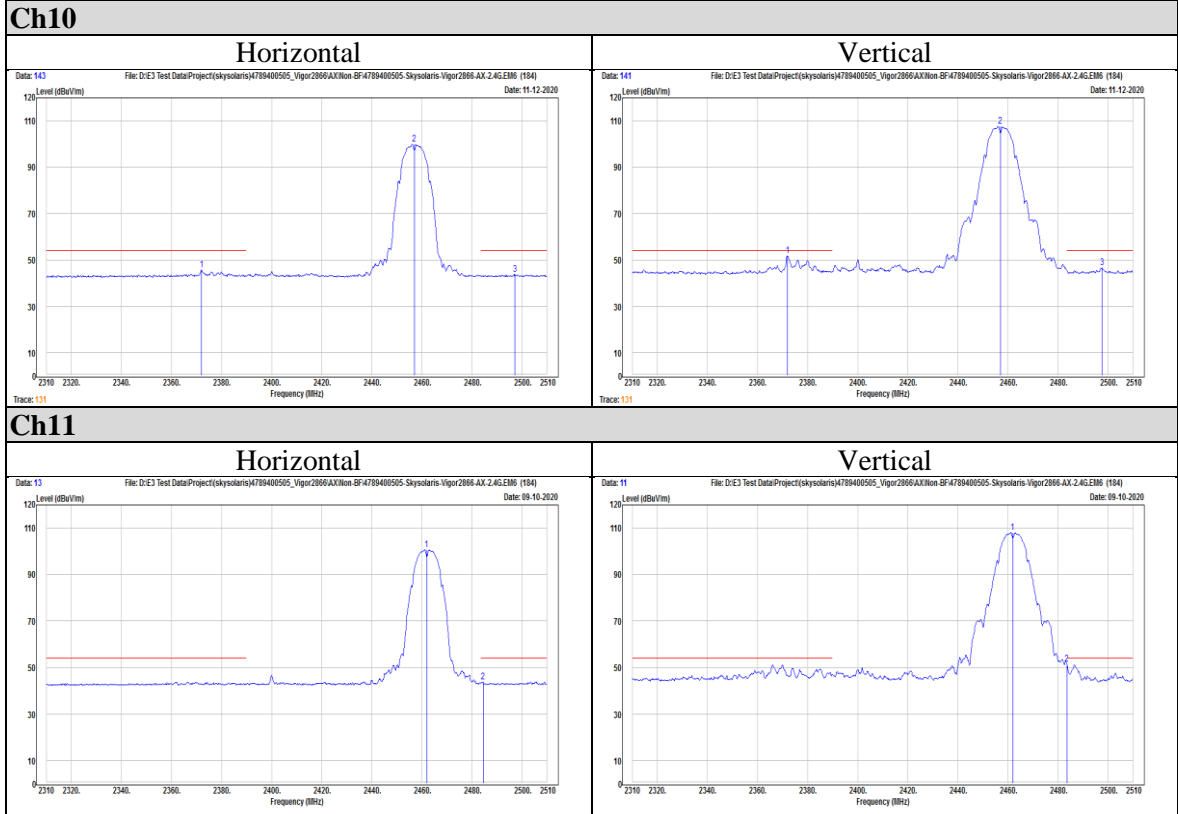


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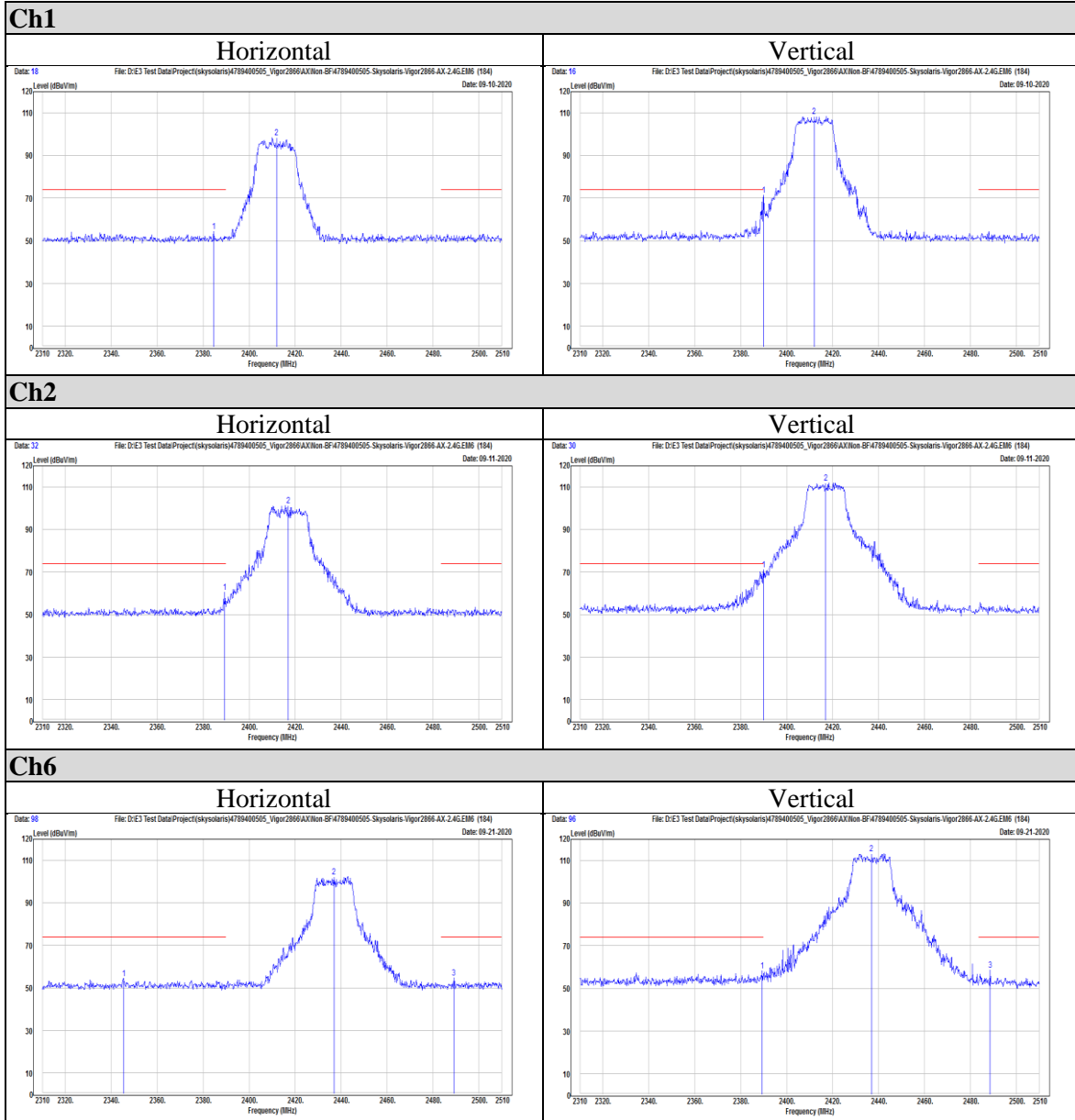
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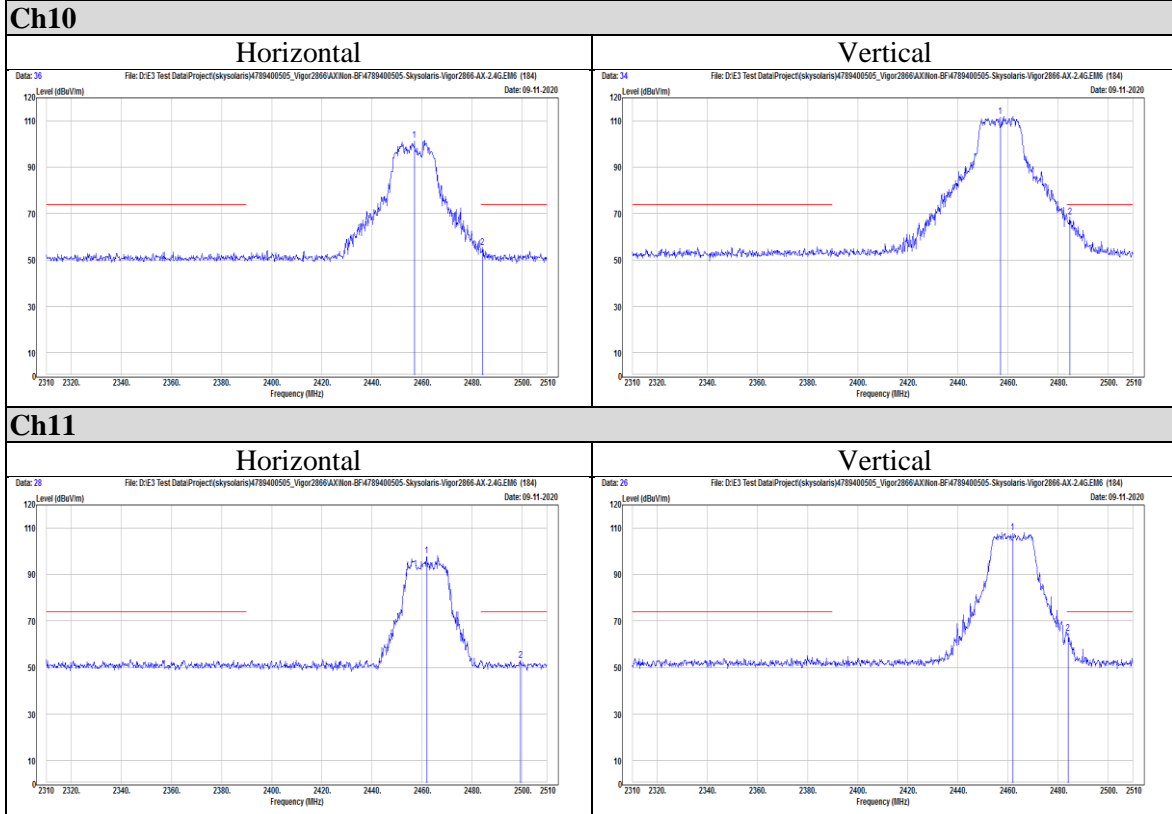
Facsimile (FAX) : +886-3-583-7948



802.11g

Peak





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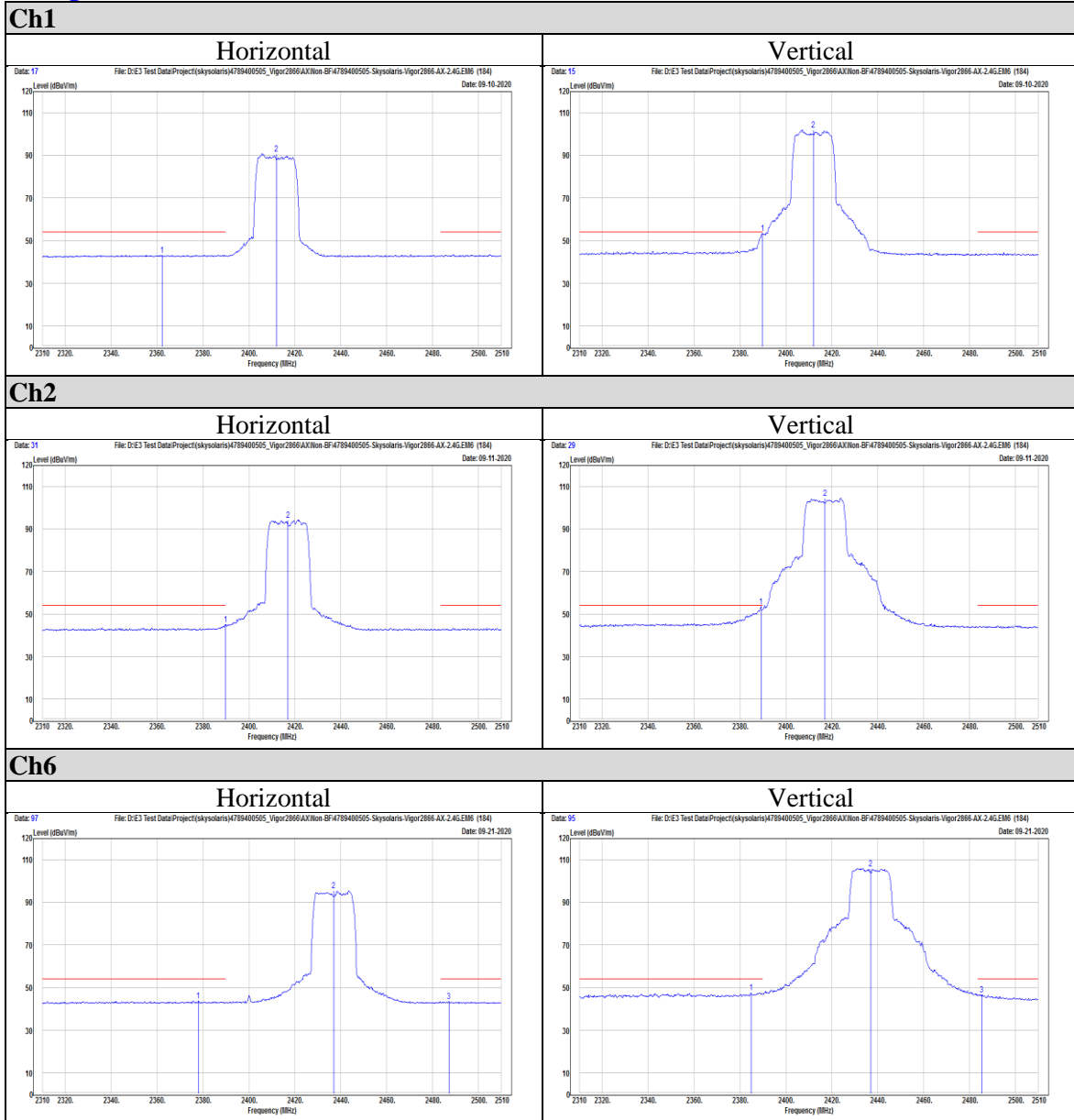
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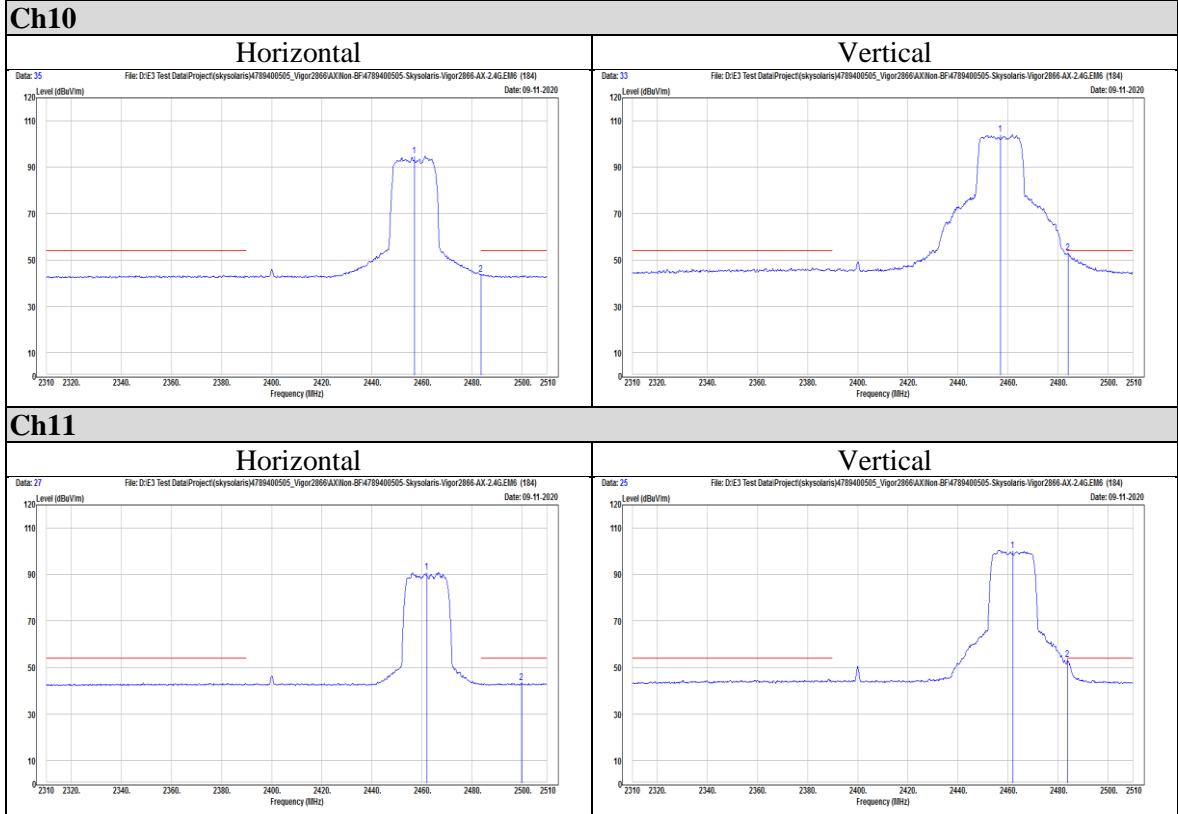
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Average





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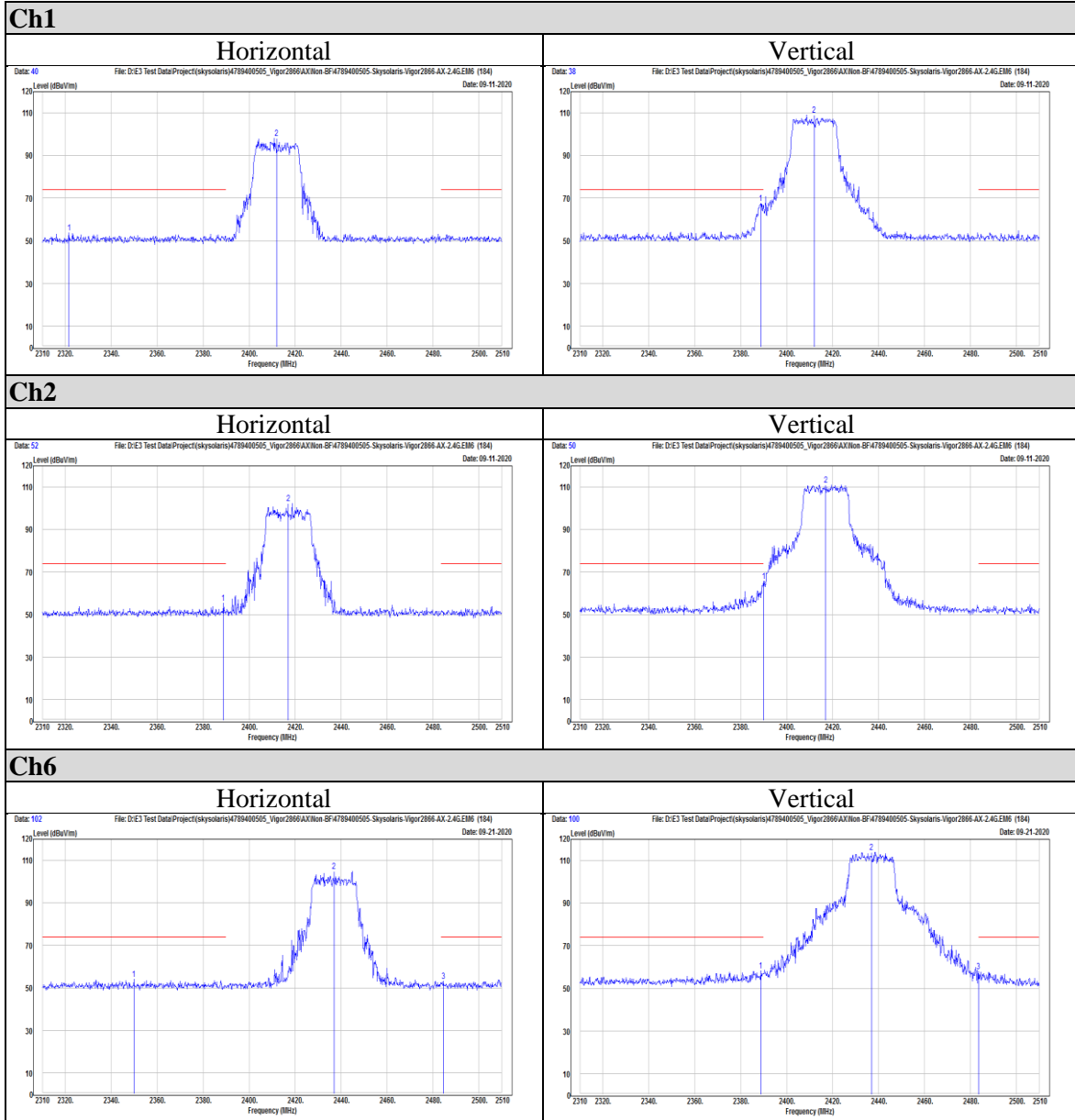
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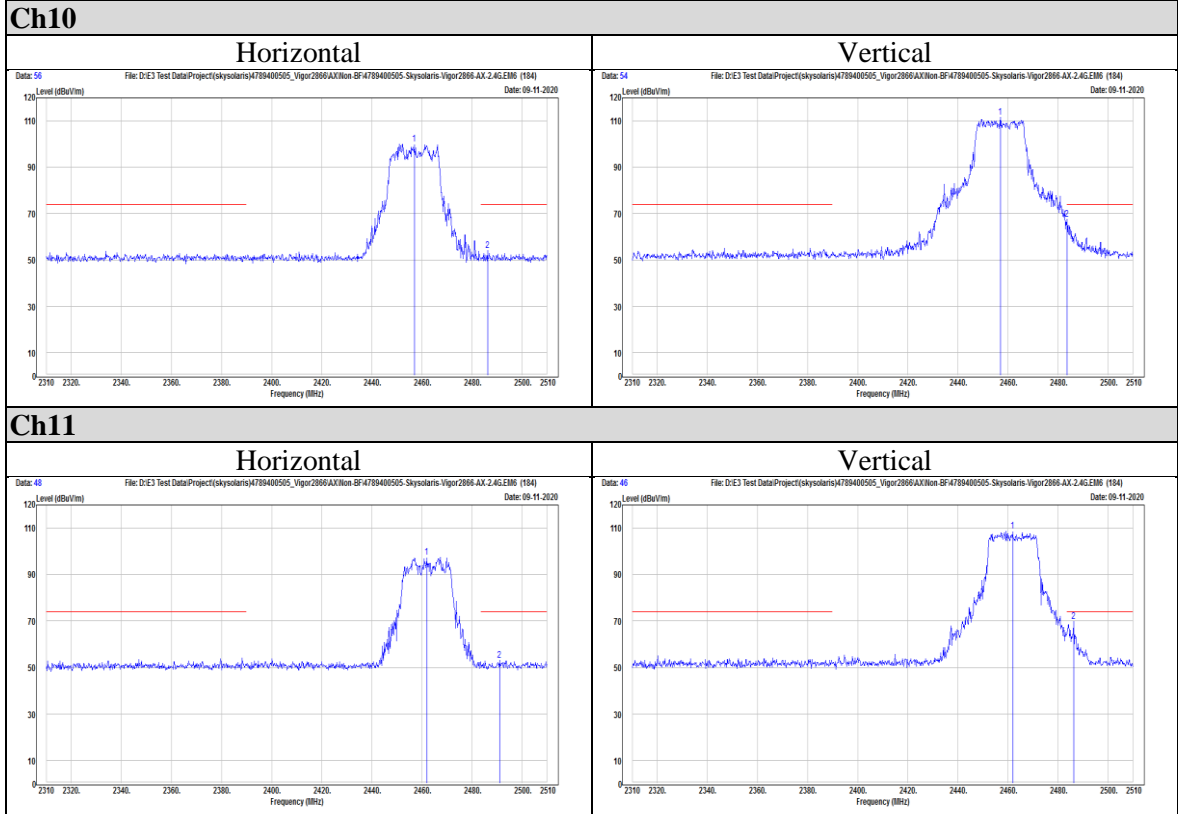
Facsimile (FAX) : +886-3-583-7948



802.11ax (HE20)

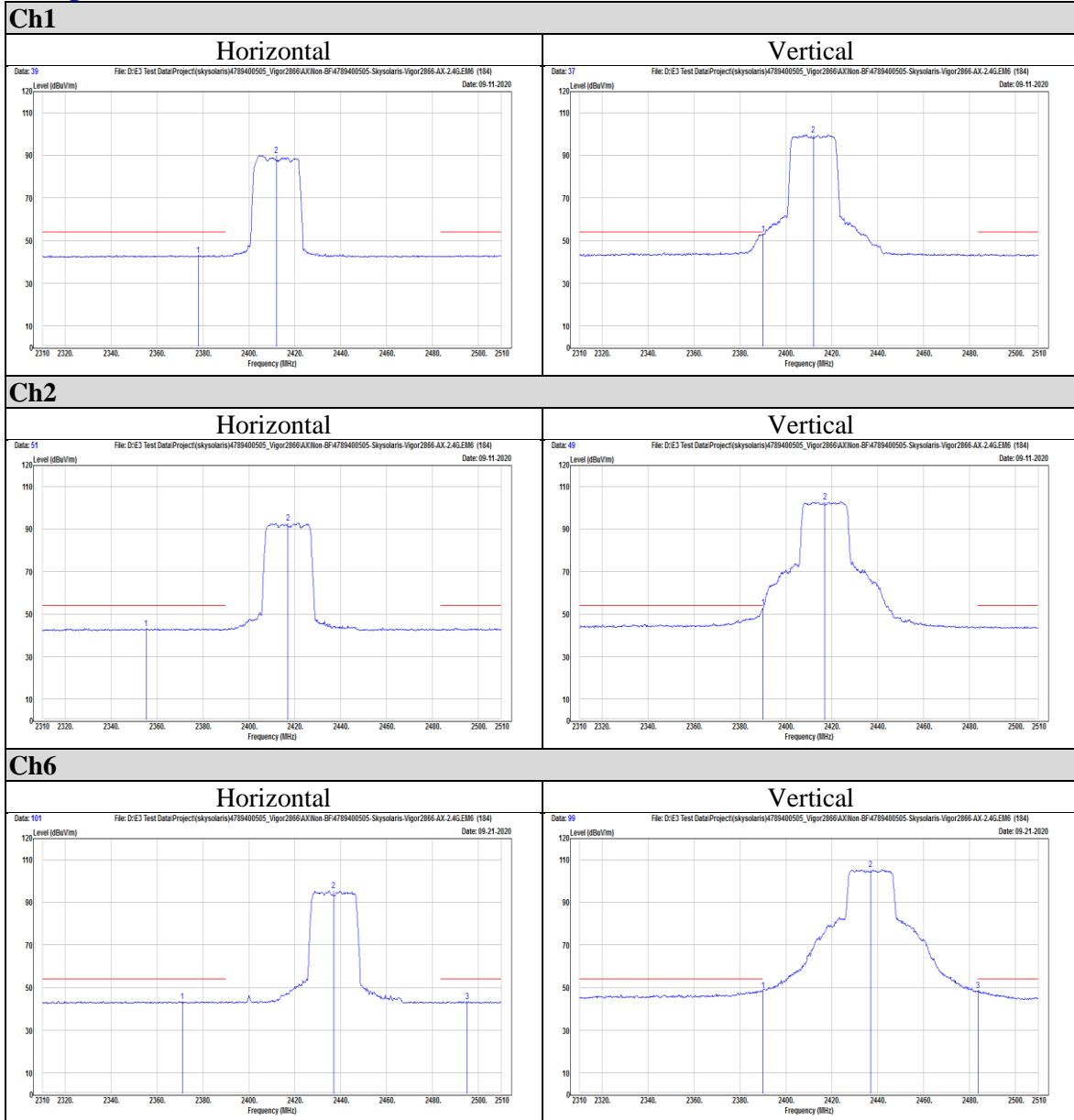
Peak

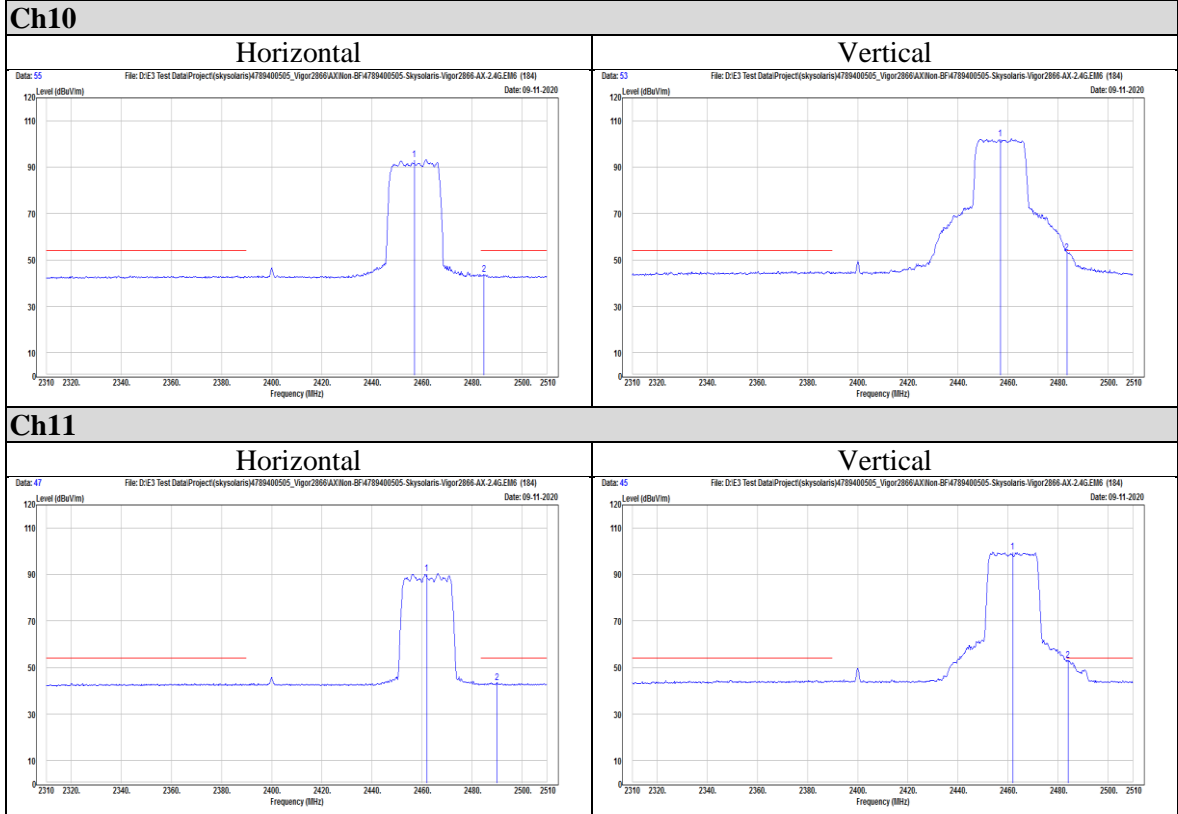






Average





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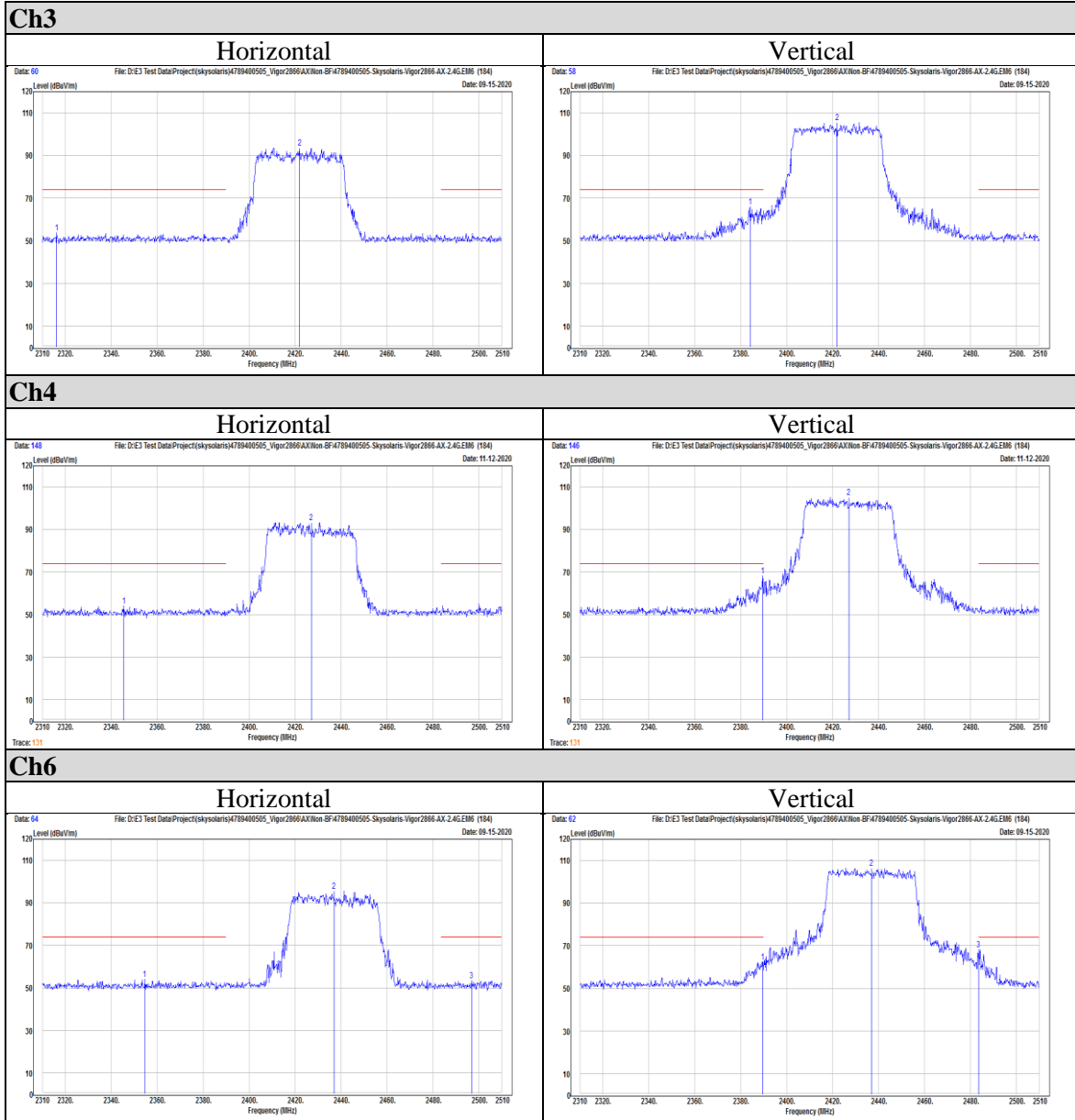
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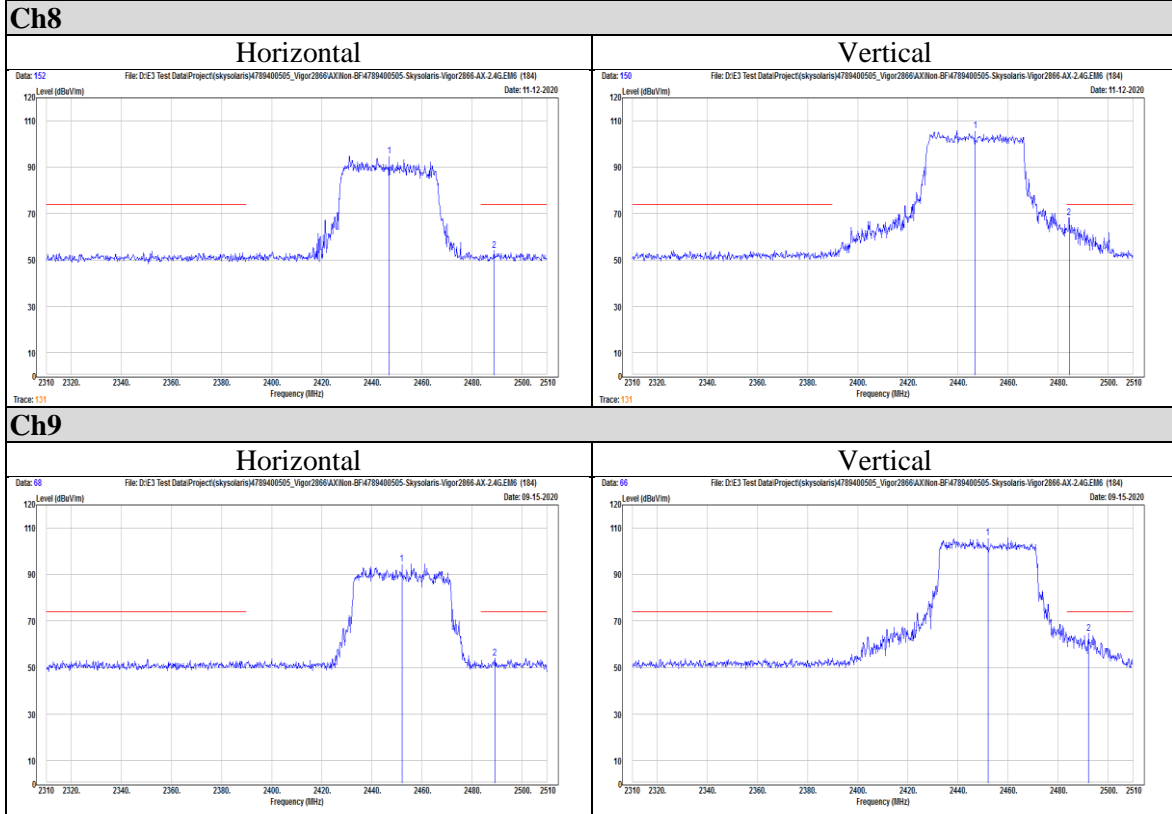
Facsimile (FAX) : +886-3-583-7948



802.11ax (HE40)

Peak





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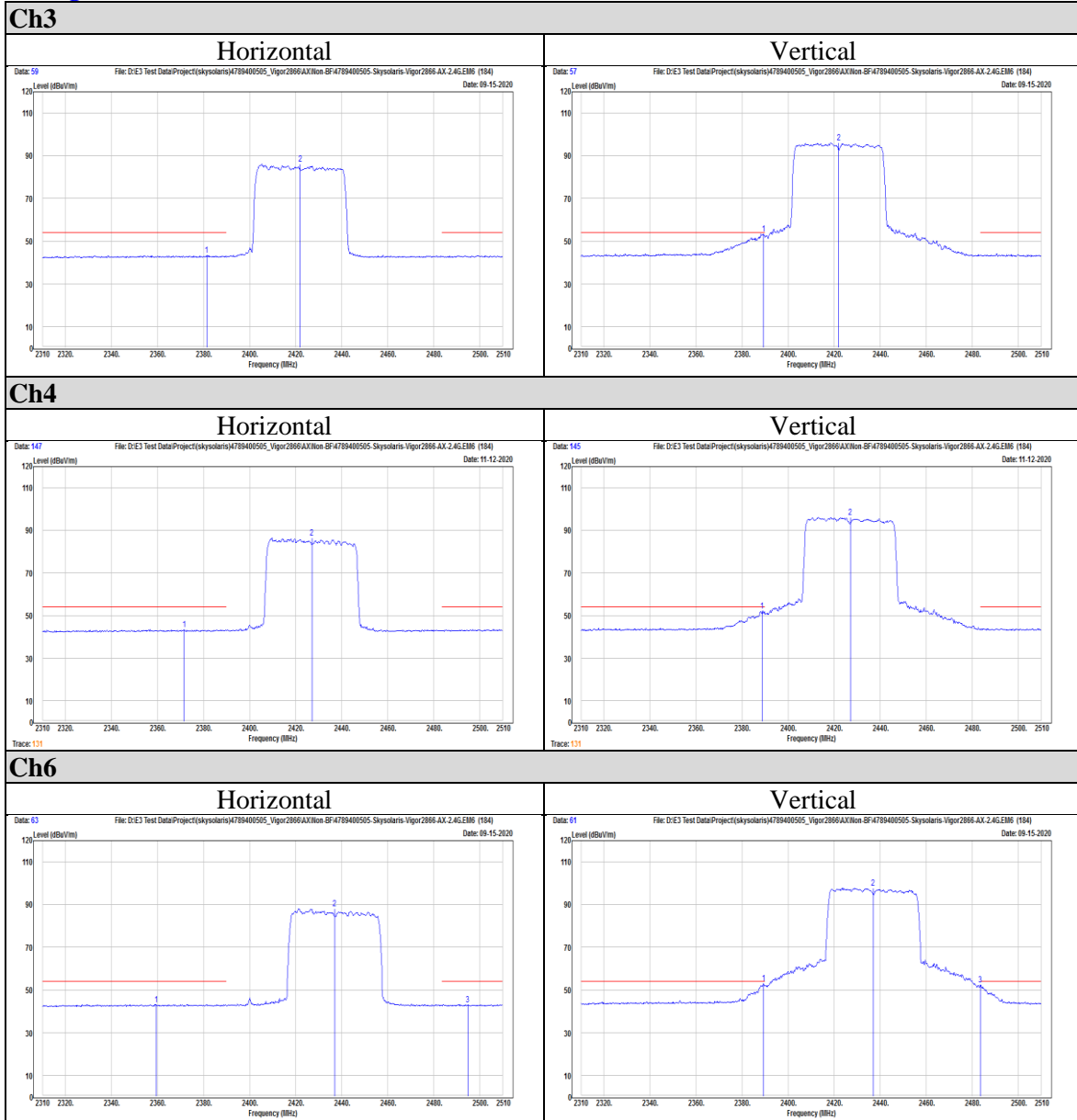
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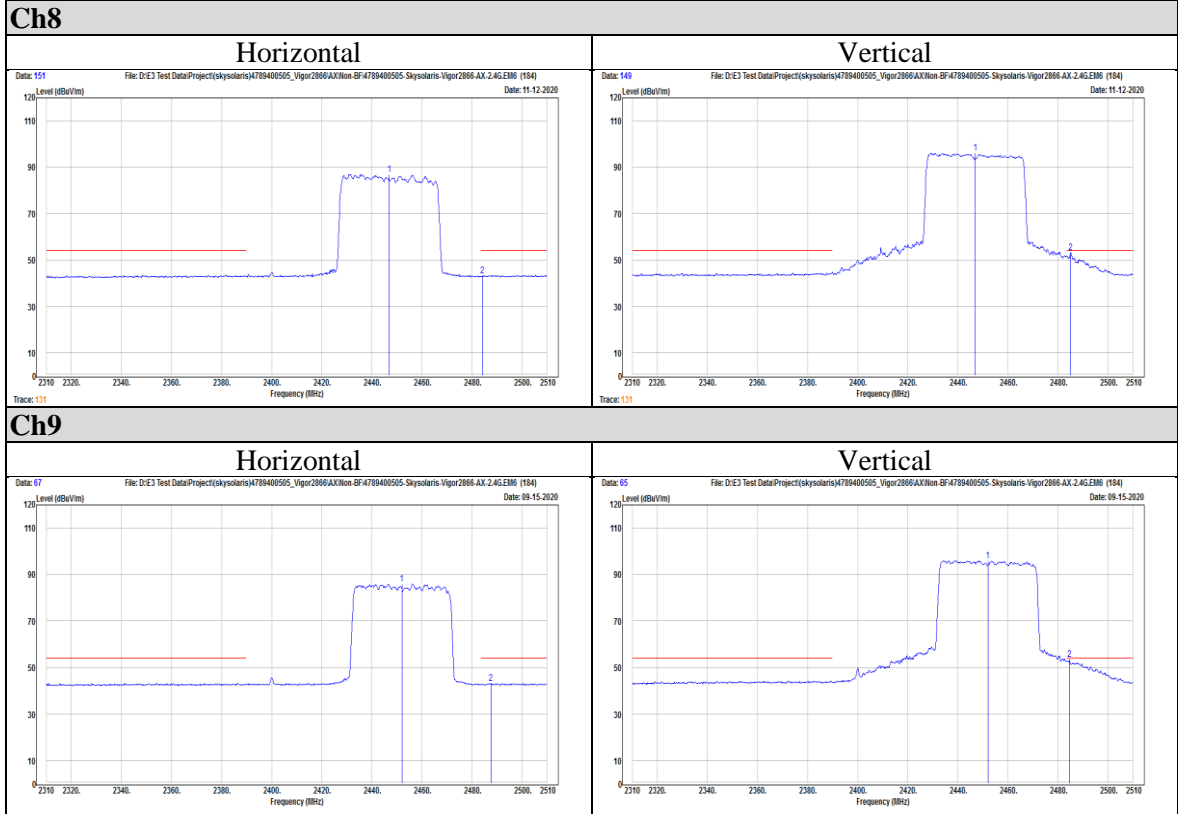
Telephone :+886-2-7737-3000

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Average





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Telephone : +886-2-7737-3000

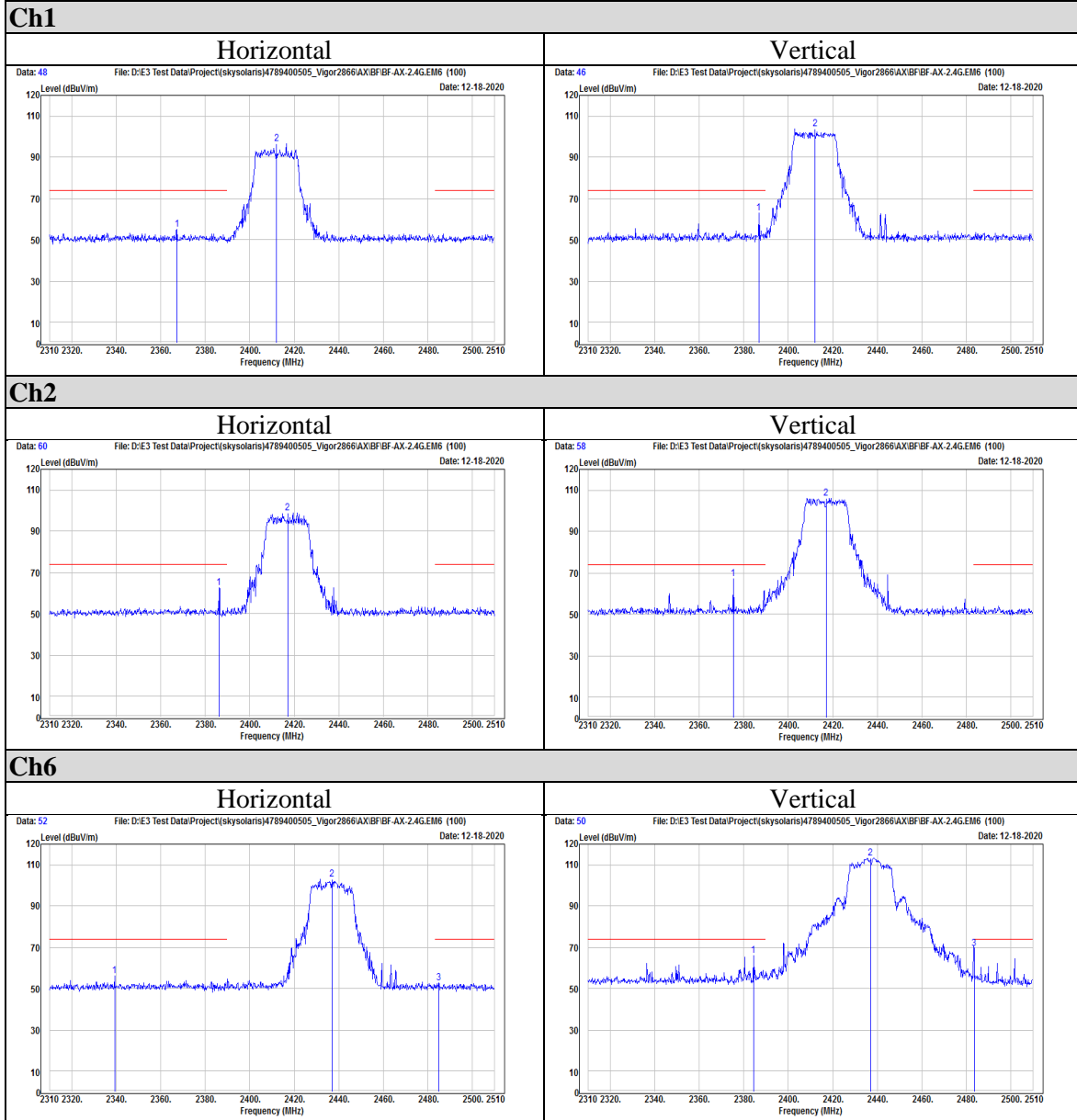
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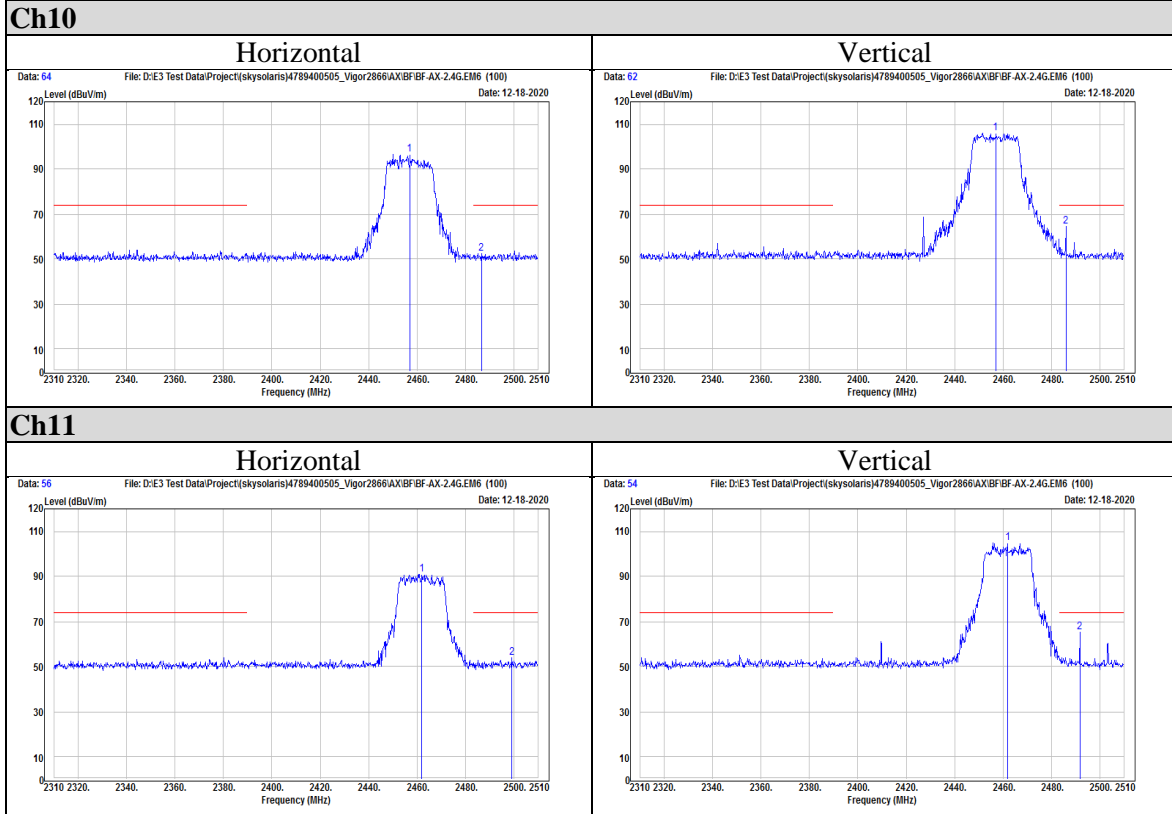


Beamforming mode

802.11ax (HE20)

Peak





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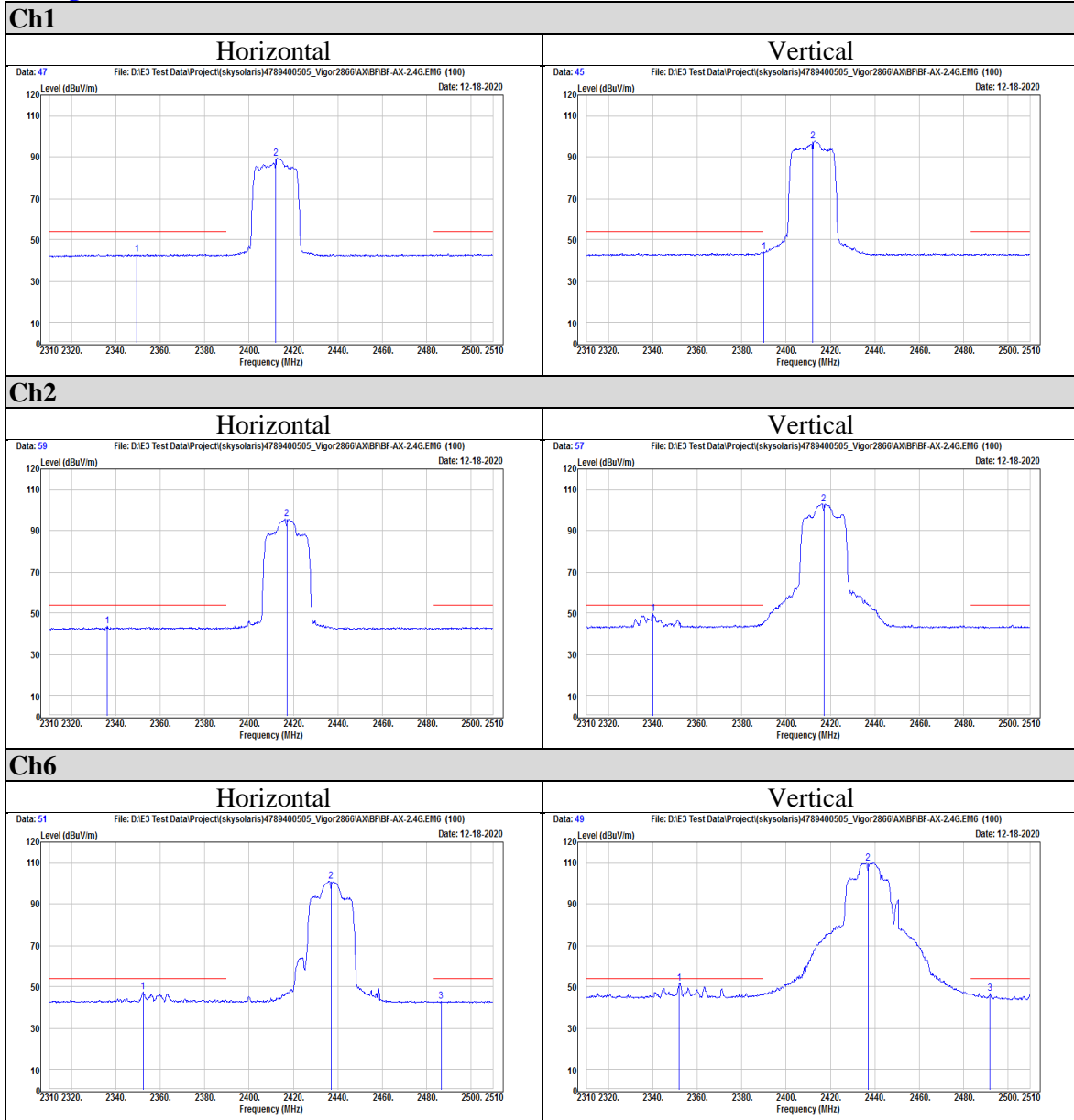
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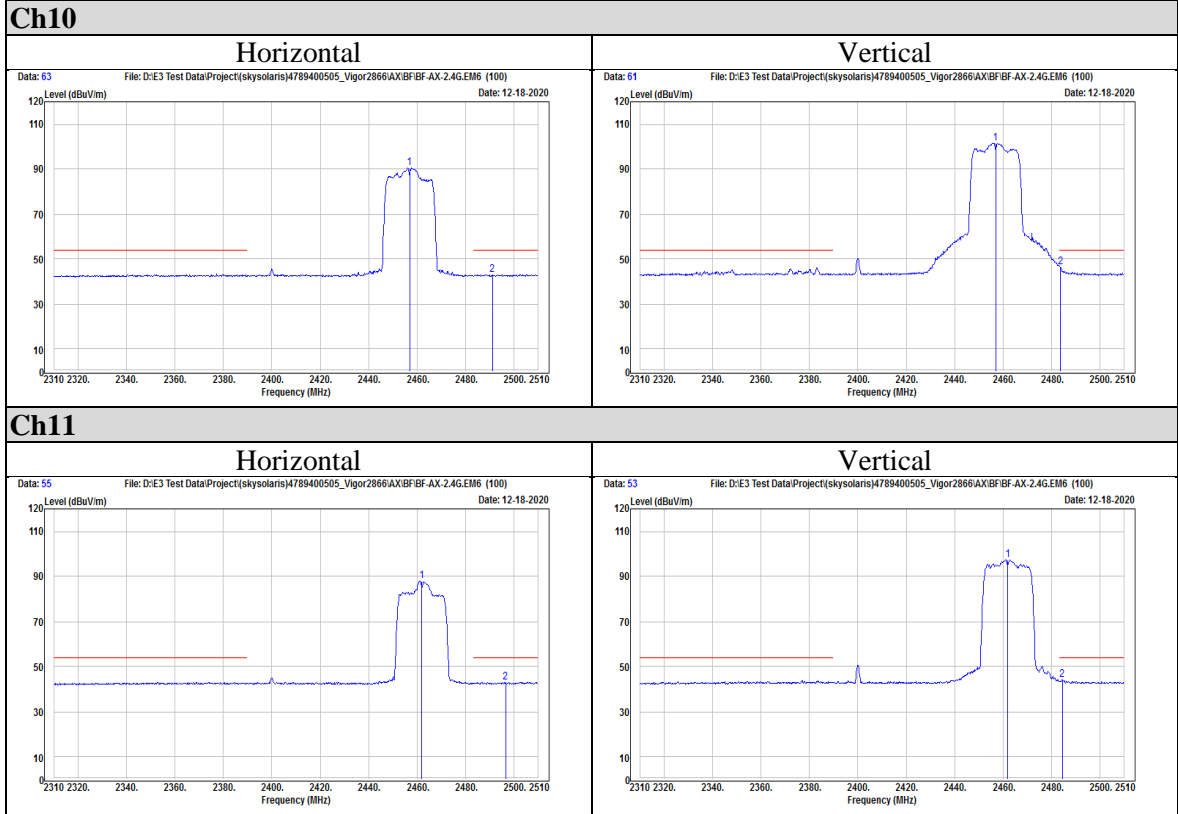
Telephone : +886-2-7737-3000

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Average





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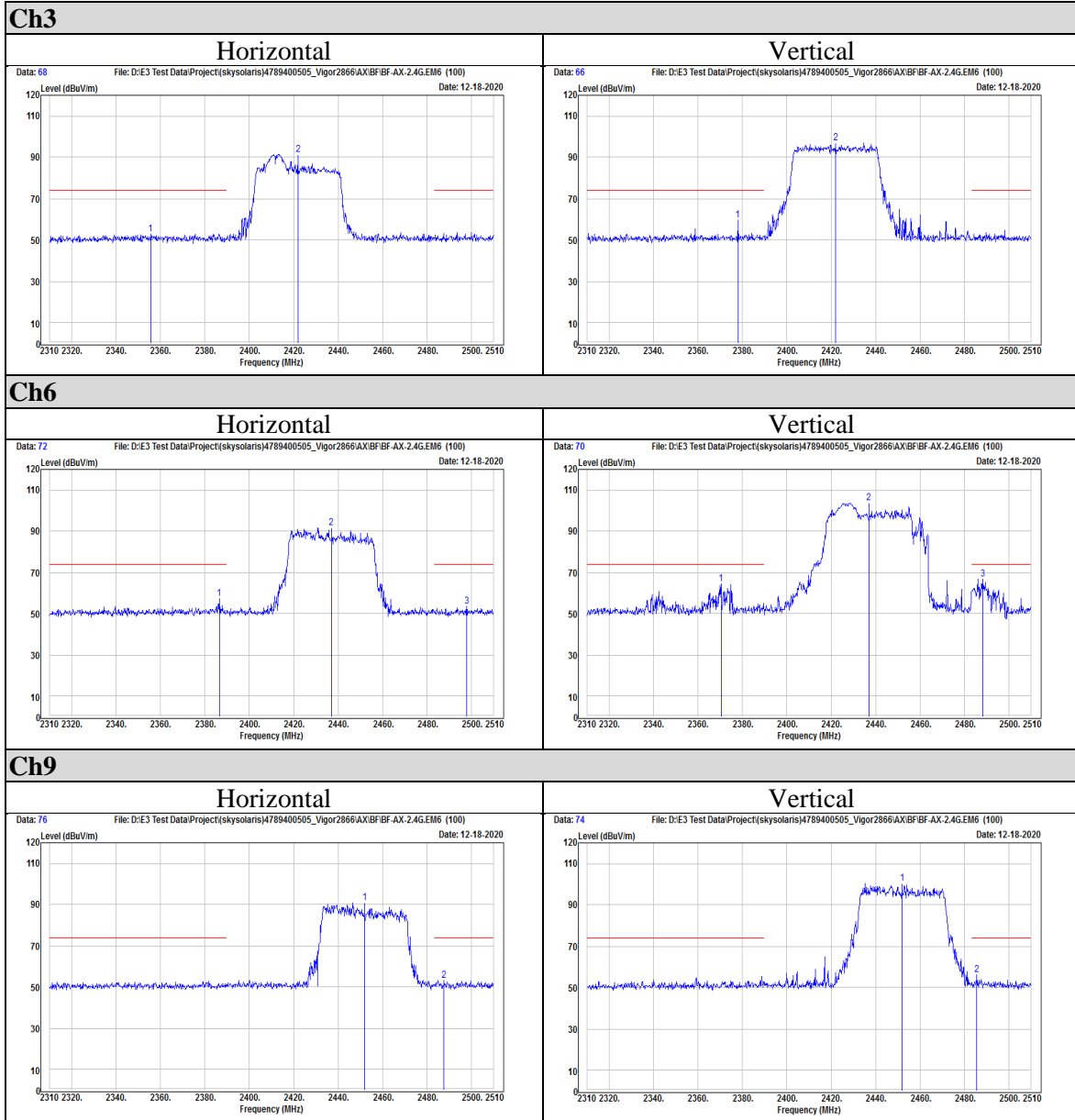
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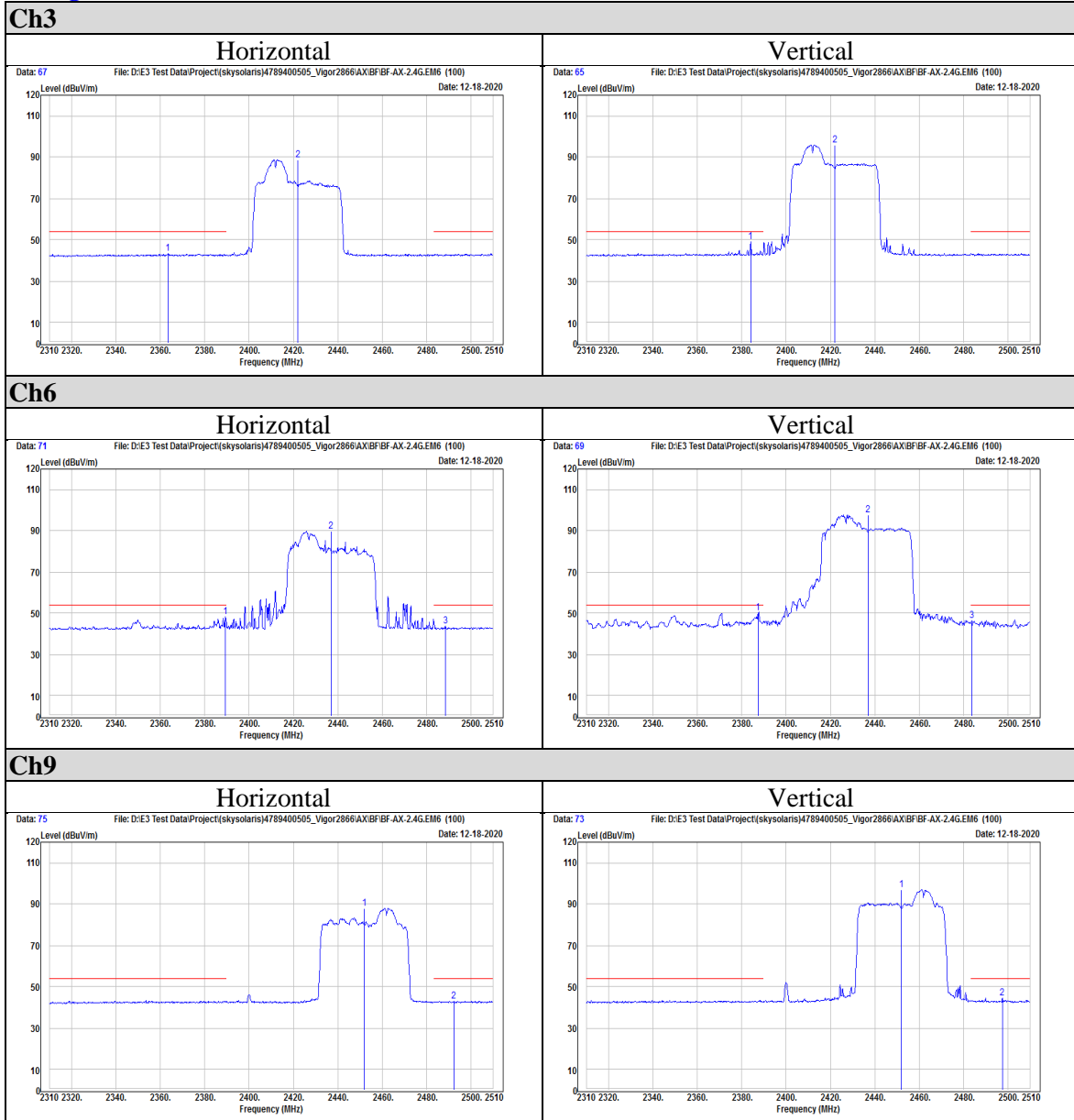
802.11ax (HE40)

Peak





Average



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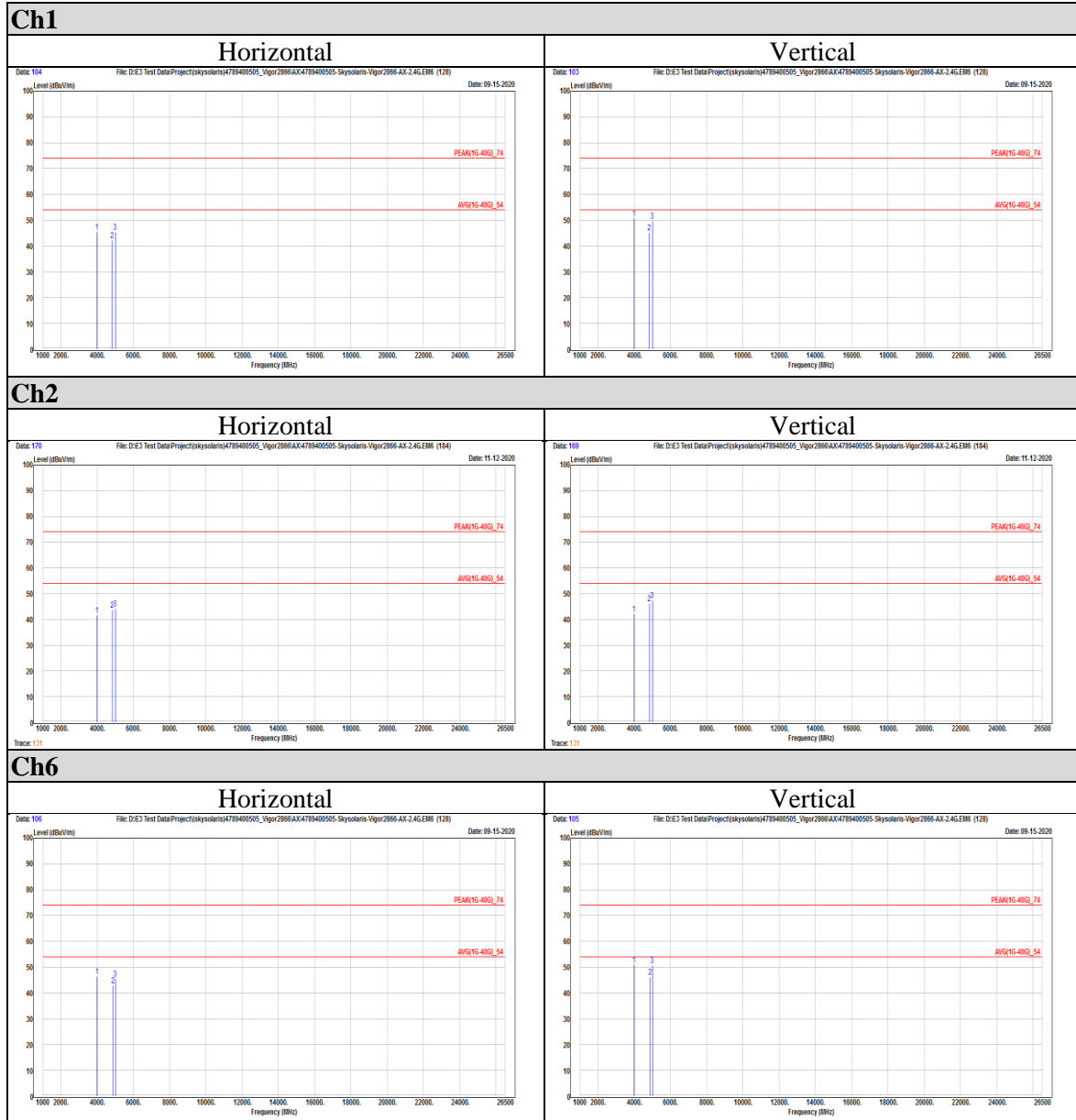
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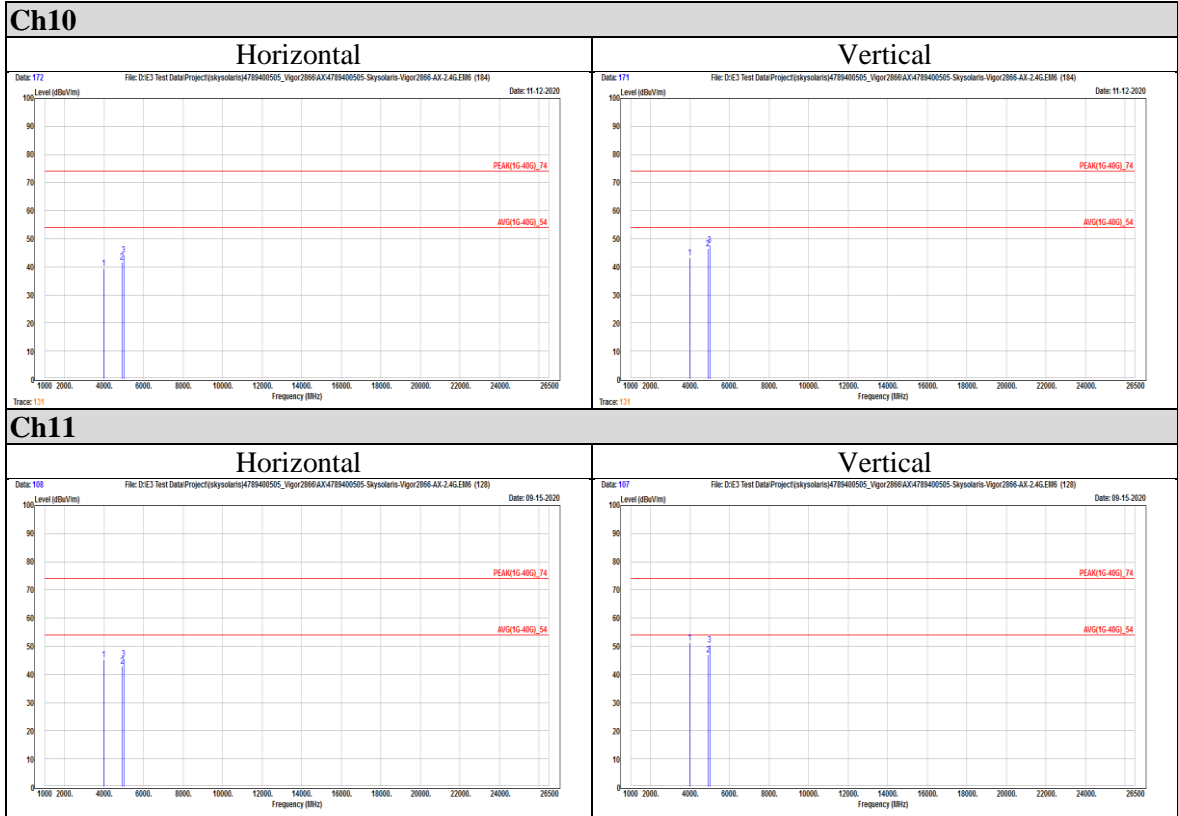


Appendix II Radiated Spurious Emission Measurement

Non-Beamforming Mode

802.11b





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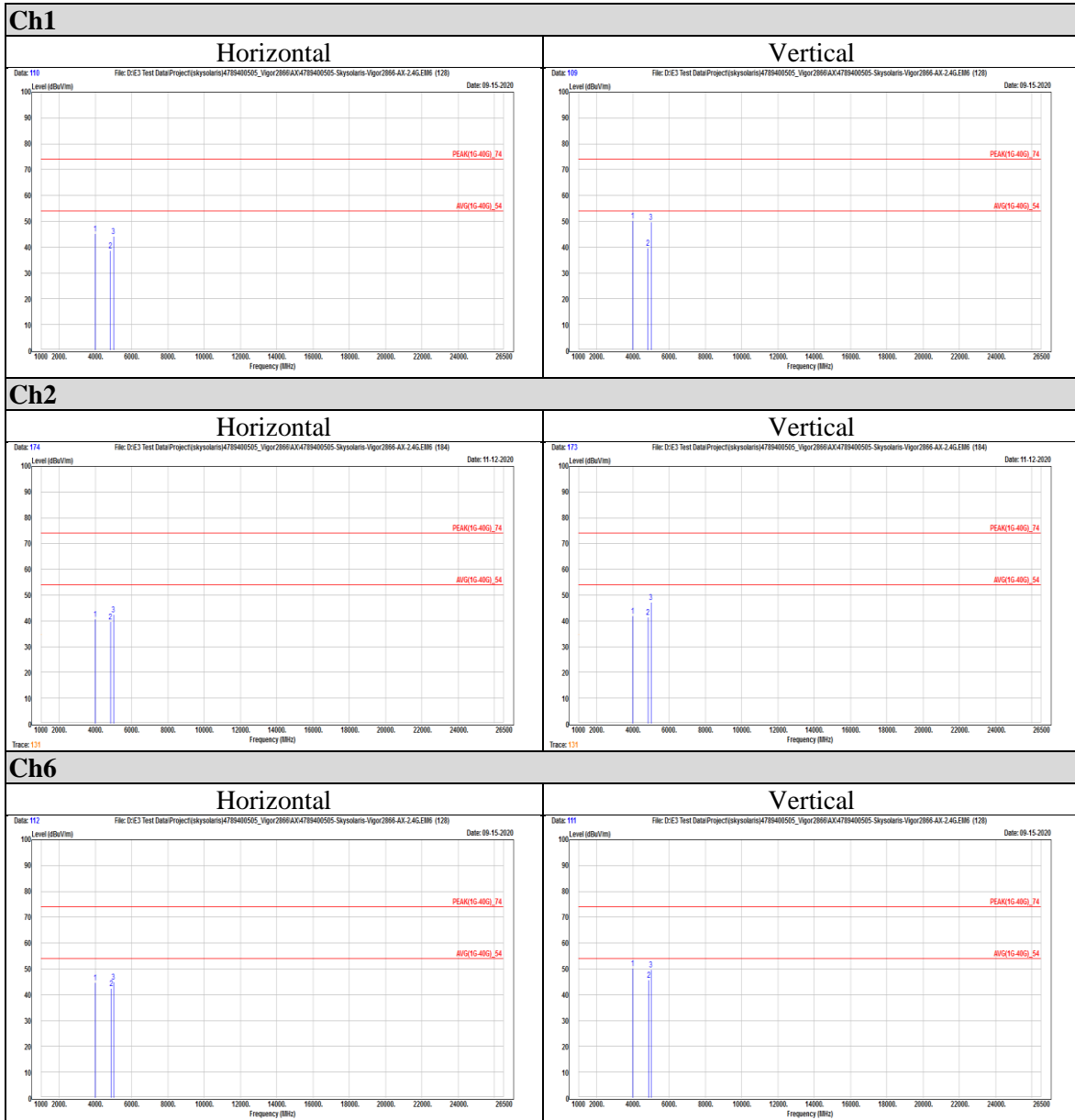
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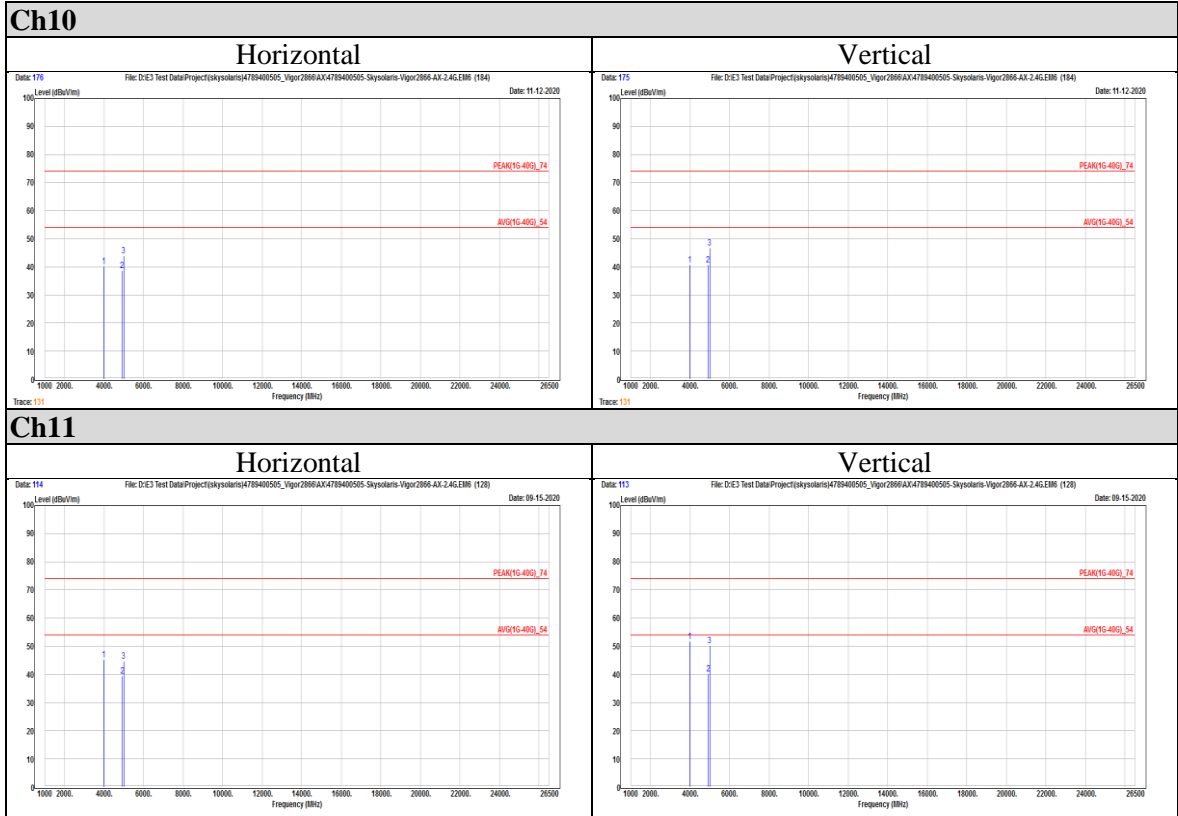
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802.11g





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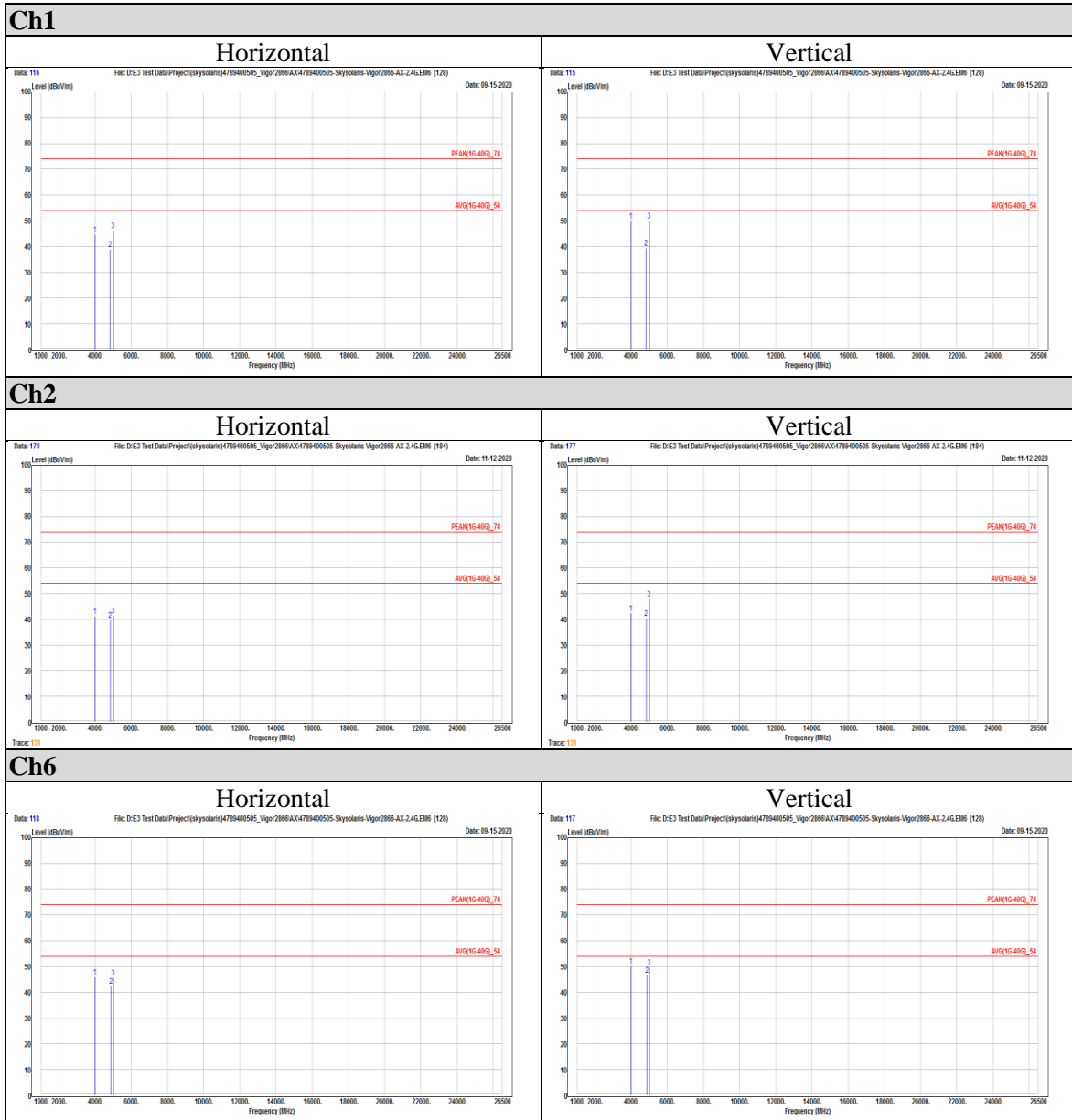
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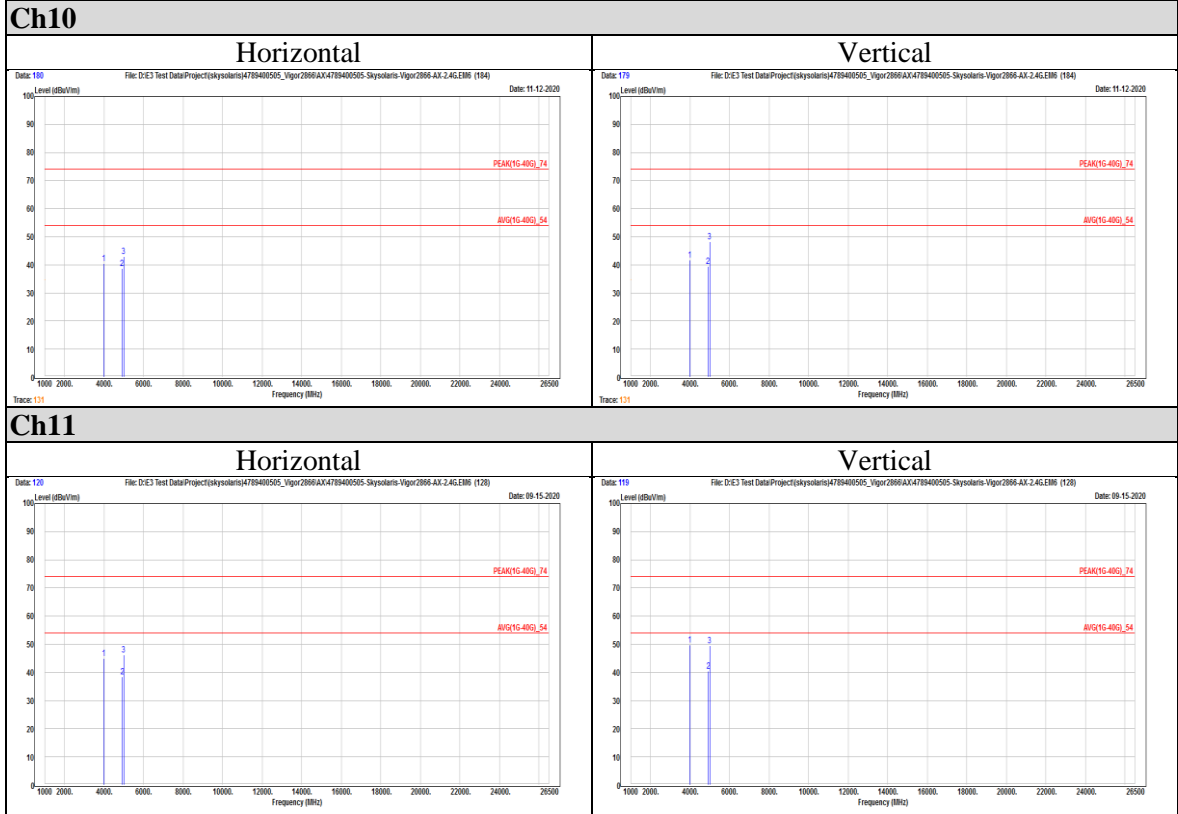
Telephone :+886-2-7737-3000

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802.11ax (HE20)





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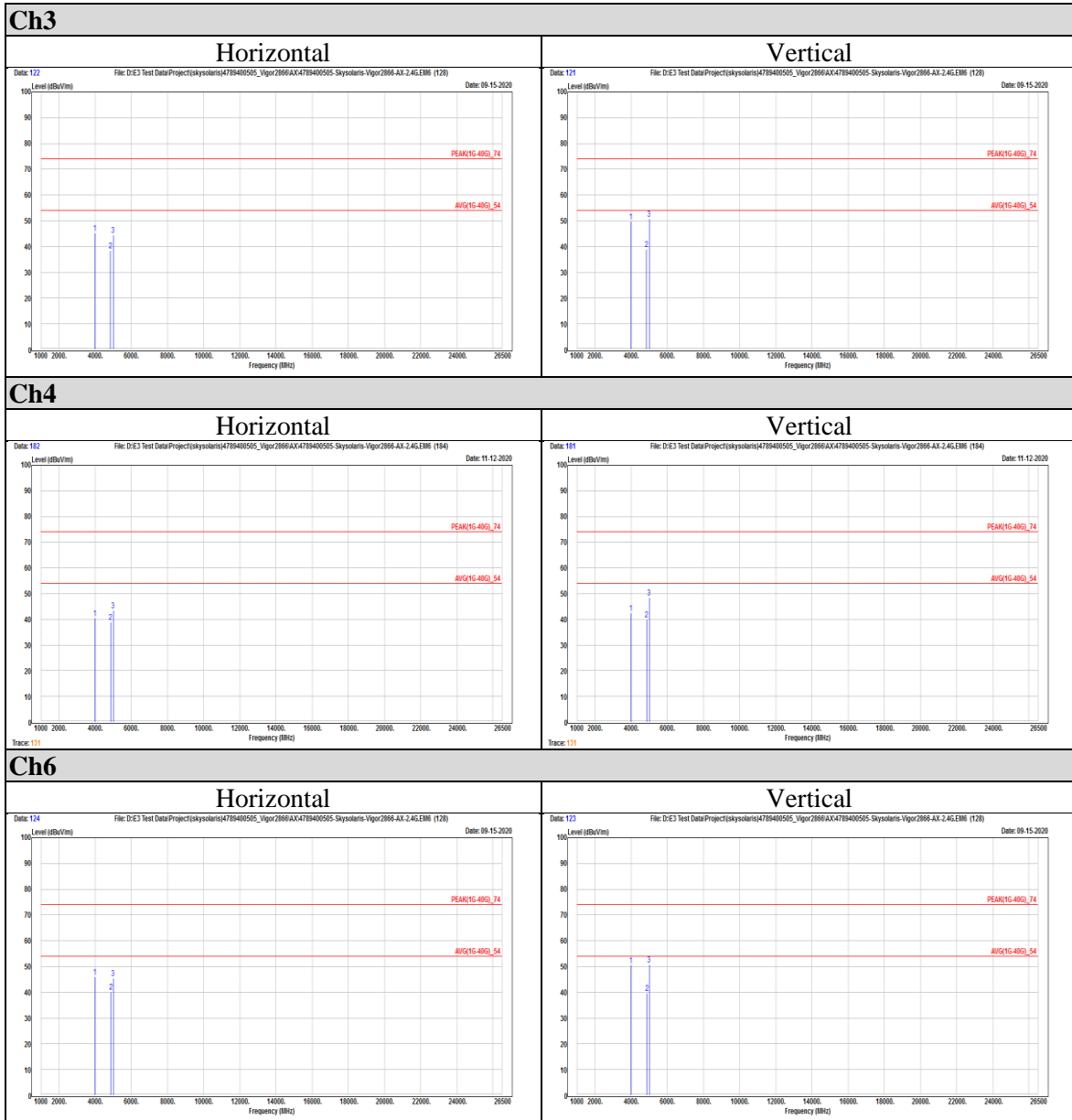
Building B and Building E, No. 372-7, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu County, Taiwan

Telephone : +886-2-7737-3000

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802.11n (HT40)



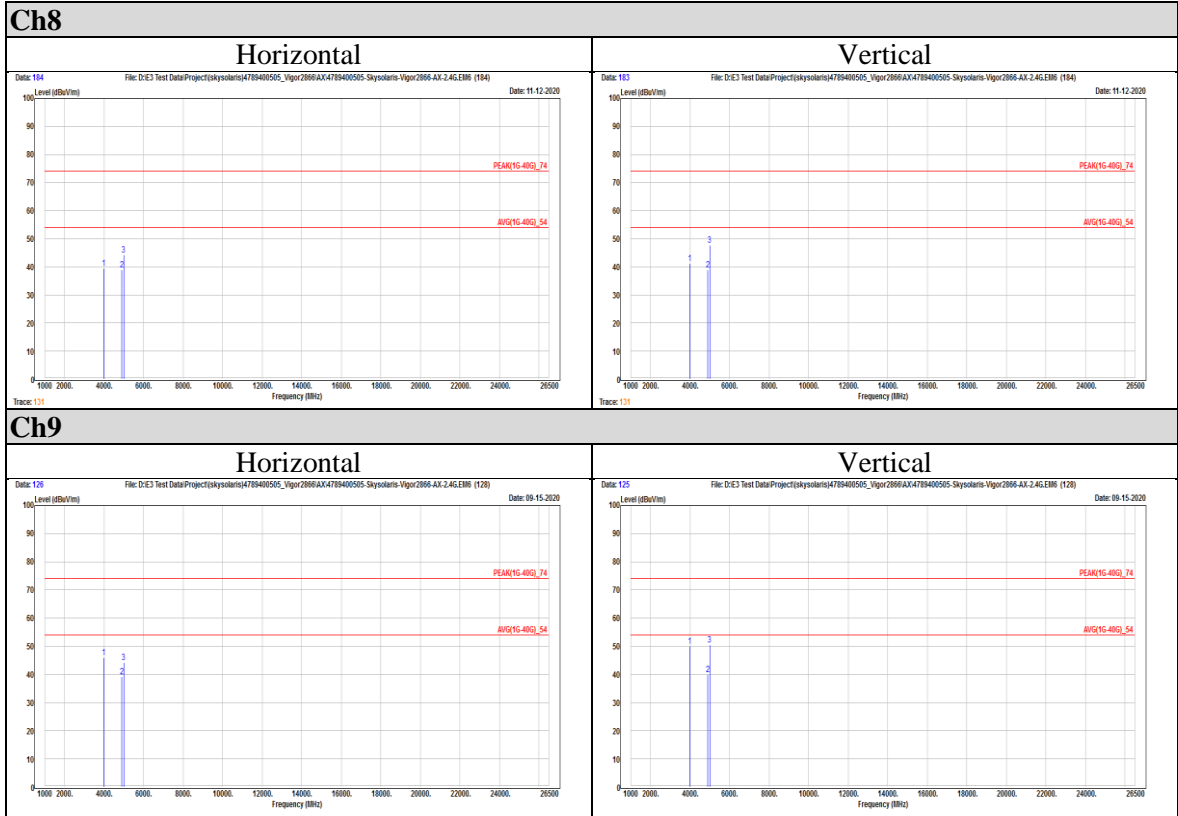
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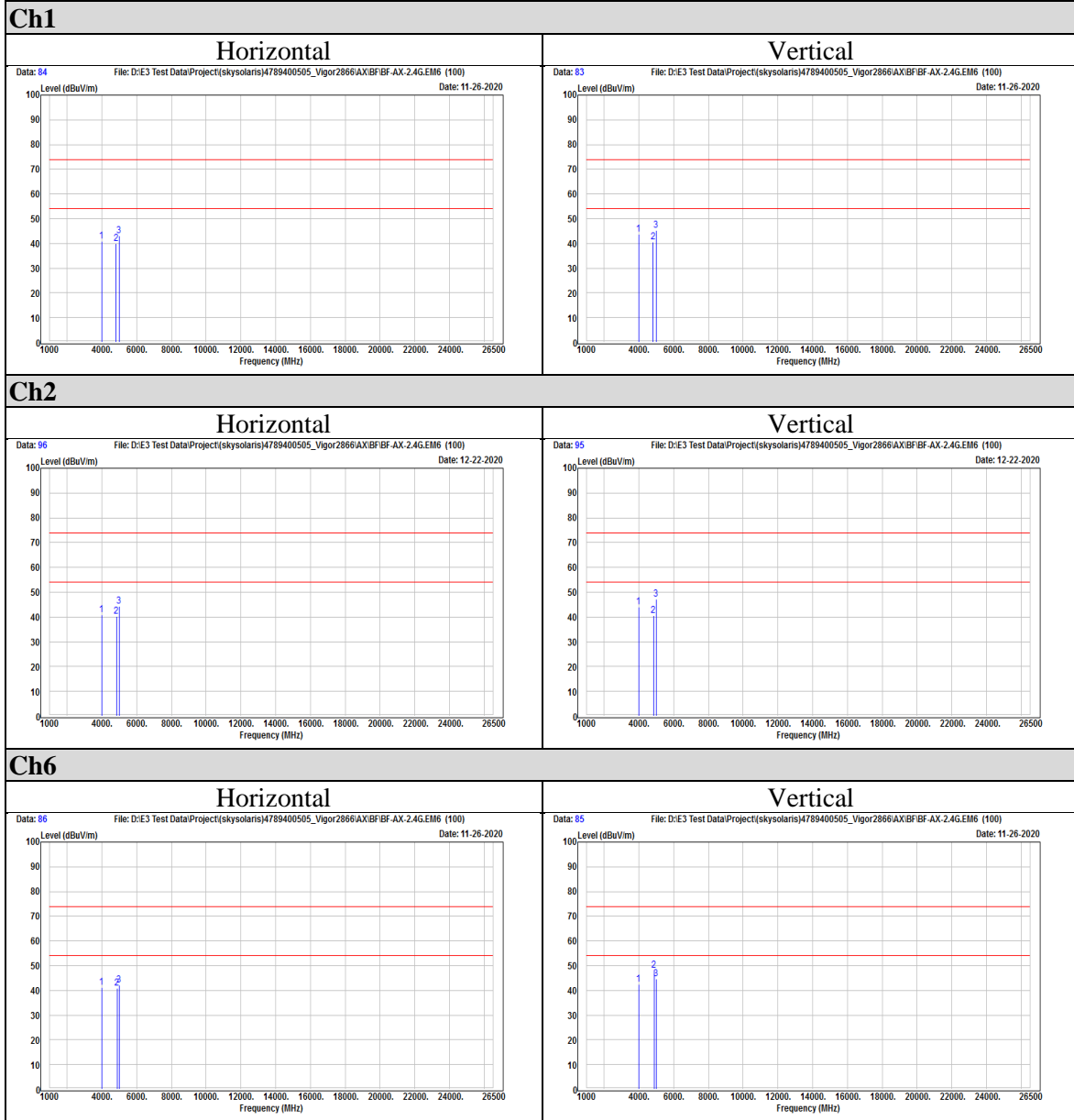
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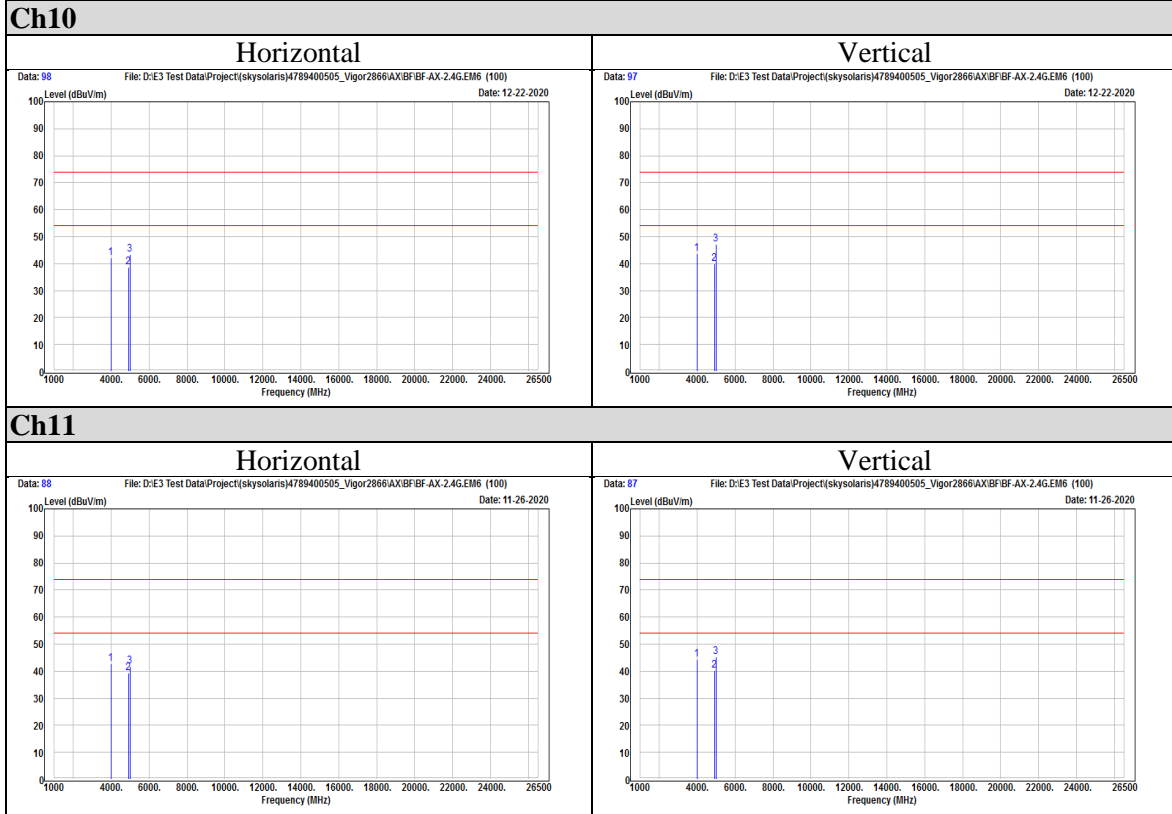
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Beamforming mode

802.11ax (HE20)





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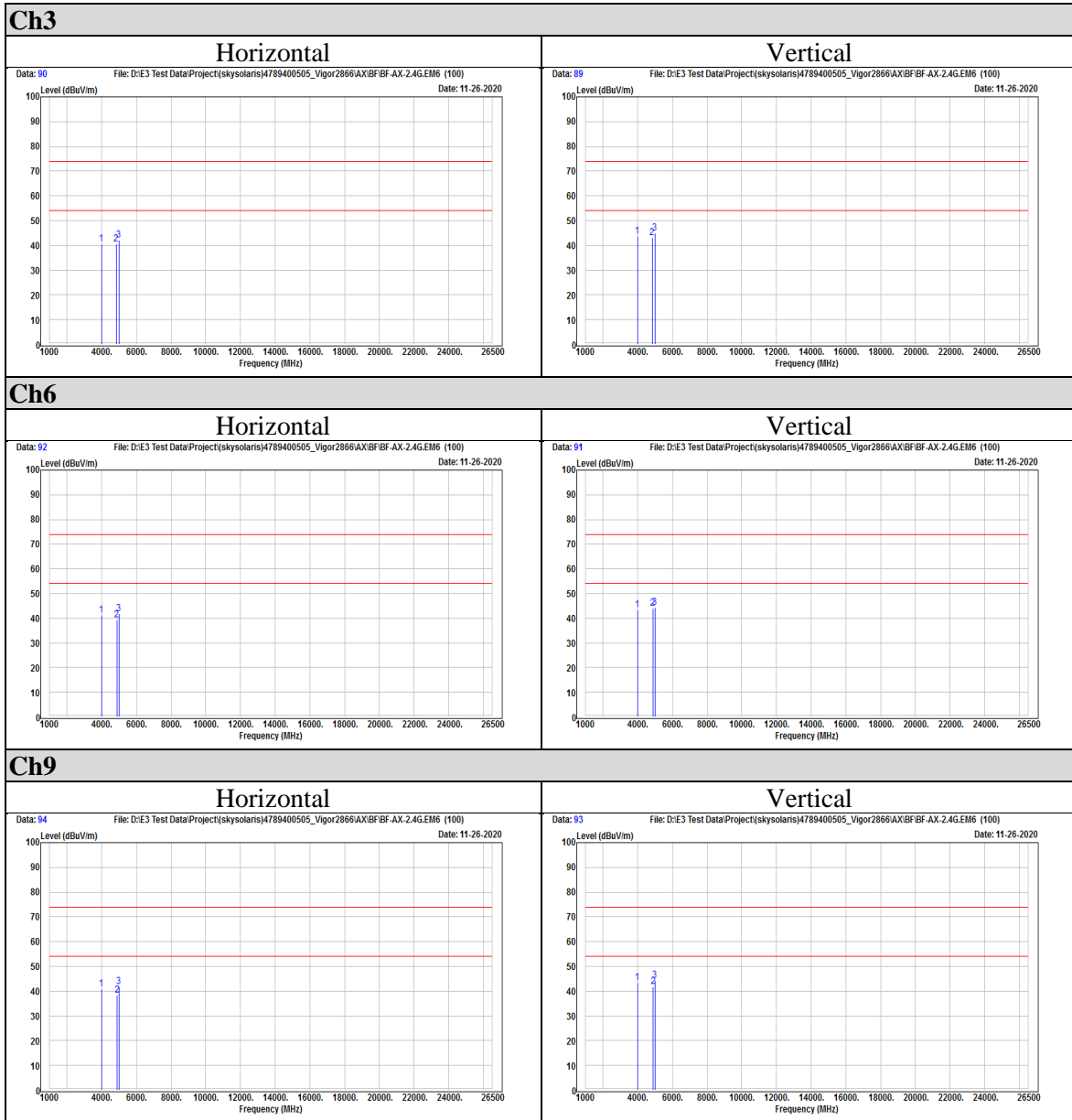
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802.11n (HT40)

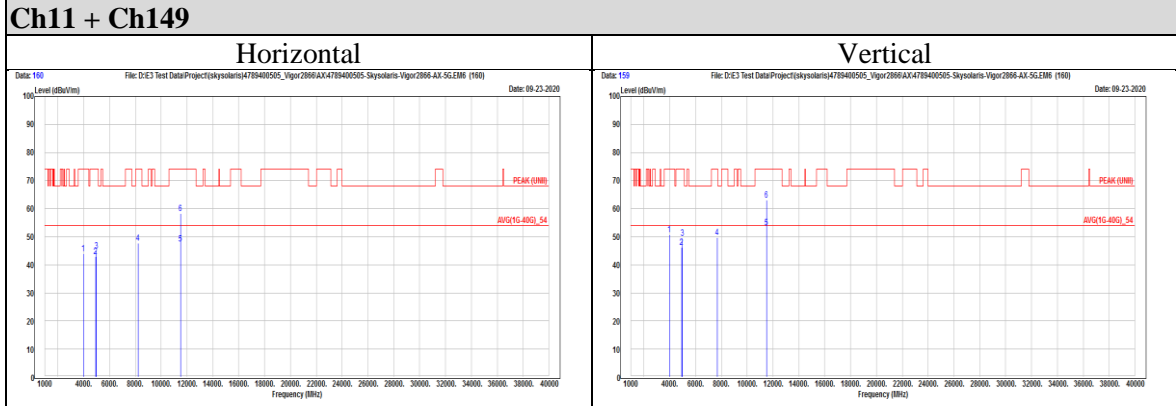




Co-Location Mode

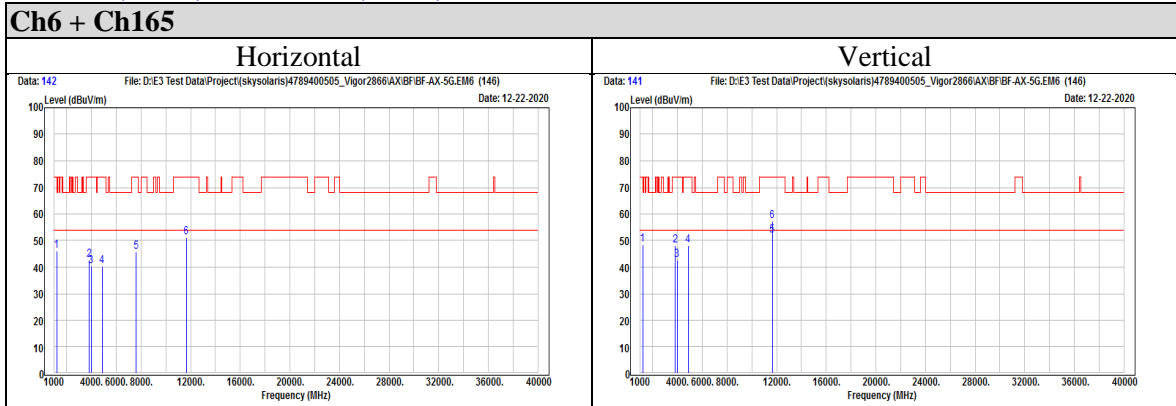
Non-Beamforming mode

802.11b + 802.11a



Beamforming mode

802.11ax (HE20) + 802.11ax (HE20)



END OF REPORT

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