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FCC ID : RYK-WPEQ405AX

802.11ax (HE20)

EUT Test Condition		Measurement Detail	
Channel	Channel 36	Frequency Range	1 GHz ~ 40 GHz

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)	
-	10360	31.2	17.39	48.59	68.2	-19.61	Peak
-	5088.55	30.78	13.43	44.21	54	-9.79	Average
@	5180	81.18	13.4	94.58	-	-	Average
-	5041.65	42.52	13.21	55.73	74	-18.27	Peak
@	5180	90.3	13.4	103.7	-	-	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)	
-	10360	31.3	17.39	48.69	68.2	-19.51	Peak
-	5137.9	32.4	13.43	45.83	54	-8.17	Average
@	5180	91.36	13.4	104.76	-	-	Average
-	5123.2	43.15	13.45	56.6	74	-17.4	Peak
@	5180	101.4	13.4	114.8	-	-	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. "@": Fundamental Frequency.
5. The other emission levels were very low against the limit.

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Doc No: 17-EM-F0878 / 6.0



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EUT Test Condition		Measurement Detail	
Channel	Channel 44	Frequency Range	1 GHz ~ 40 GHz

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)	
-	10440	31.42	17.63	49.05	68.2	-19.15	Peak
-	5093.1	30.93	13.44	44.37	54	-9.63	Average
@	5220	81.83	13.33	95.16	-	-	Average
-	5090.65	41.52	13.43	54.95	74	-19.05	Peak
@	5220	88.82	13.33	102.15	-	-	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)	
-	10440	31.08	17.63	48.71	68.2	-19.49	Peak
-	5034.65	32.64	13.13	45.77	54	-8.23	Average
@	5220	91.67	13.33	105	-	-	Average
-	5027.3	43.62	13.04	56.66	74	-17.34	Peak
@	5220	100.27	13.33	113.6	-	-	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. "@": Fundamental Frequency.
5. The other emission levels were very low against the limit.

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EUT Test Condition		Measurement Detail	
Channel	Channel 48	Frequency Range	1 GHz ~ 40 GHz

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)	
-	10480	31.74	17.69	49.43	68.2	-18.77	Peak
-	5113.4	30.68	13.45	44.13	54	-9.87	Average
@	5240	82.94	13.27	96.21	-	-	Average
-	5072.45	43.05	13.37	56.42	74	-17.58	Peak
@	5240	92.38	13.27	105.65	-	-	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)	
-	10480	31.48	17.69	49.17	68.2	-19.03	Peak
-	5054.6	32.24	13.31	45.55	54	-8.45	Average
@	5240	91.47	13.27	104.74	-	-	Average
-	5109.55	42.22	13.46	55.68	74	-18.32	Peak
@	5240	99.15	13.27	112.42	-	-	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. "@": Fundamental Frequency.
5. The other emission levels were very low against the limit.

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EUT Test Condition		Measurement Detail	
Channel	Channel 52	Frequency Range	1 GHz ~ 40 GHz

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)	
-	10520	31.19	17.73	48.92	68.2	-19.28	Peak
@	5260	83.1	13.24	96.34	-	-	Average
-	5458.2	28.61	13.7	42.31	54	-11.69	Average
@	5260	89.76	13.24	103	-	-	Peak
-	5451.6	39.71	13.67	53.38	74	-20.62	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)	
-	10520	32.53	17.73	50.26	68.2	-17.94	Peak
@	5260	91.01	13.24	104.25	-	-	Average
-	5457.9	29	13.7	42.7	54	-11.3	Average
@	5260	98.48	13.24	111.72	-	-	Peak
-	5396.7	40.89	13.4	54.29	74	-19.71	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. "@": Fundamental Frequency.
5. The other emission levels were very low against the limit.

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EUT Test Condition		Measurement Detail	
Channel	Channel 60	Frequency Range	1 GHz ~ 40 GHz

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)	
-	10600	30.89	17.73	48.62	68.2	-19.58	Peak
@	5300	82.95	13.21	96.16	-	-	Average
-	5448	28.62	13.66	42.28	54	-11.72	Average
@	5300	87.77	13.21	100.98	-	-	Peak
-	5371.5	39.91	13.33	53.24	74	-20.76	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)	
-	10600	31.16	17.73	48.89	68.2	-19.31	Peak
@	5300	90.79	13.21	104	-	-	Average
-	5356.5	29.91	13.28	43.19	54	-10.81	Average
@	5300	98.86	13.21	112.07	-	-	Peak
-	5356.2	41.15	13.28	54.43	74	-19.57	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. "@": Fundamental Frequency.
5. The other emission levels were very low against the limit.

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EUT Test Condition		Measurement Detail	
Channel	Channel 64	Frequency Range	1 GHz ~ 40 GHz

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)	
*	10640	31.25	17.82	49.07	74	-24.93	Peak
@	5320	80.05	13.23	93.28	-	-	Average
-	5459.1	28.88	13.7	42.58	54	-11.42	Average
@	5320	87.61	13.23	100.84	-	-	Peak
-	5434.8	40.28	13.6	53.88	74	-20.12	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)	
*	10640	30.77	17.82	48.59	74	-25.41	Peak
@	5320	90.69	13.23	103.92	-	-	Average
-	5409.6	29.55	13.47	43.02	54	-10.98	Average
@	5320	98.5	13.23	111.73	-	-	Peak
-	5432.4	41.14	13.59	54.73	74	-19.27	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. "@": Fundamental Frequency.
5. " * ": The peak result under 20 dB above and complies with AVG limit, AVG result is deemed to comply with AVG limit.
6. The other emission levels were very low against the limit.

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EUT Test Condition		Measurement Detail	
Channel	Channel 100	Frequency Range	1 GHz ~ 40 GHz

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)	
*	11000	31.99	18.28	50.27	74	-23.73	Peak
-	5422.05	28.98	13.53	42.51	54	-11.49	Average
-	5422.05	39.99	13.53	53.52	74	-20.48	Peak
-	5467.55	39.12	13.73	52.85	68.2	-15.35	Peak
@	5500	79.11	13.83	92.94	-	-	Average
@	5500	87.58	13.83	101.41	-	-	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)	
*	11000	33.29	18.28	51.57	74	-22.43	Peak
-	5436.75	29.83	13.61	43.44	54	-10.56	Average
-	5436.75	40.12	13.61	53.73	74	-20.27	Peak
-	5469.65	40.01	13.74	53.75	68.2	-14.45	Peak
@	5500	90.02	13.83	103.85	-	-	Average
@	5500	98.36	13.83	112.19	-	-	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. "@": Fundamental Frequency.
5. " * ": The peak result under 20 dB above and complies with AVG limit, AVG result is deemed to comply with AVG limit.
6. The other emission levels were very low against the limit.

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EUT Test Condition		Measurement Detail	
Channel	Channel 116	Frequency Range	1 GHz ~ 40 GHz

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)	
*	11160	33.31	18.32	51.63	74	-22.37	Peak
-	5425.9	29.03	13.55	42.58	54	-11.42	Average
-	5425.9	40.2	13.55	53.75	74	-20.25	Peak
-	5469.65	39.32	13.74	53.06	68.2	-15.14	Peak
@	5580	79.44	13.98	93.42	-	-	Average
@	5580	88.17	13.98	102.15	-	-	Peak
-	5743	40.66	14.27	54.93	68.2	-13.27	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)	
-	11160	28.37	18.32	46.69	54	-7.31	Average
-	11160	38.13	18.32	56.45	74	-17.55	Peak
-	5451.8	29.3	13.67	42.97	54	-11.03	Average
-	5451.8	40.77	13.67	54.44	74	-19.56	Peak
-	5468.95	39.99	13.74	53.73	68.2	-14.47	Peak
@	5580	90.16	13.98	104.14	-	-	Average
@	5580	99.46	13.98	113.44	-	-	Peak
-	5738.1	40.67	14.24	54.91	68.2	-13.29	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. "@": Fundamental Frequency.
5. " * ": The peak result under 20 dB above and complies with AVG limit, AVG result is deemed to comply with AVG limit.
6. The other emission levels were very low against the limit.

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EUT Test Condition		Measurement Detail	
Channel	Channel 140	Frequency Range	1 GHz ~ 40 GHz

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)	
*	11400	32.52	18.74	51.26	74	-22.74	Peak
@	5700	78.84	14.05	92.89	-	-	Average
@	5700	88.83	14.05	102.88	-	-	Peak
-	5739.85	42.36	14.25	56.61	68.2	-11.59	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)	
-	11400	28.04	18.74	46.78	54	-7.22	Average
-	11400	37.72	18.74	56.46	74	-17.54	Peak
@	5700	90.41	14.05	104.46	-	-	Average
@	5700	99.74	14.05	113.79	-	-	Peak
-	5725	44.67	14.18	58.85	68.2	-9.35	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. "@": Fundamental Frequency.
5. " * ": The peak result under 20 dB above and complies with AVG limit, AVG result is deemed to comply with AVG limit.
6. The other emission levels were very low against the limit.

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EUT Test Condition		Measurement Detail	
Channel	Channel 149	Frequency Range	1 GHz ~ 40 GHz

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)	
-	11490	28.19	19.02	47.21	54	-6.79	Average
-	11490	38.17	19.02	57.19	74	-16.81	Peak
-	5581.5	41.7	13.98	55.68	68.2	-12.52	Peak
-	5681.5	41.11	14.03	55.14	91.55	-36.41	Peak
@	5745	98.19	14.28	112.47	-	-	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)	
-	11490	34.69	19.02	53.71	54	-0.29	Average
-	11490	44.78	19.02	63.8	74	-10.2	Peak
-	5545.5	44.76	13.88	58.64	68.2	-9.56	Peak
-	5700	60.45	14.05	74.5	105.2	-30.7	Peak
@	5745	106.77	14.28	121.05	-	-	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. "@": Fundamental Frequency.
5. The other emission levels were very low against the limit.

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EUT Test Condition		Measurement Detail	
Channel	Channel 157	Frequency Range	1 GHz ~ 40 GHz

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)	
-	11570	29.41	18.88	48.29	54	-5.71	Average
-	11570	39.42	18.88	58.3	74	-15.7	Peak
-	5549	41.79	13.88	55.67	68.2	-12.53	Peak
-	5672	41.01	14.02	55.03	84.52	-29.49	Peak
@	5785	98.23	14.48	112.71	-	-	Peak
-	5879.5	40.87	14.91	55.78	101.86	-46.08	Peak
-	5949	41.79	15.02	56.81	68.2	-11.39	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)	
-	11570	33.02	18.88	51.9	54	-2.1	Average
-	11570	42.97	18.88	61.85	74	-12.15	Peak
-	5586.5	45.34	14	59.34	68.2	-8.86	Peak
-	5700	43.89	14.05	57.94	105.2	-47.26	Peak
@	5785	106.5	14.48	120.98	-	-	Peak
-	5890	42.95	14.94	57.89	94.07	-36.18	Peak
-	5971.5	42.93	15.08	58.01	68.2	-10.19	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. "@": Fundamental Frequency.
5. The other emission levels were very low against the limit.

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Doc No: 17-EM-F0878 / 6.0



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EUT Test Condition		Measurement Detail	
Channel	Channel 165	Frequency Range	1 GHz ~ 40 GHz

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)	
-	11650	31.34	18.63	49.97	54	-4.03	Average
-	11650	41.35	18.63	59.98	74	-14.02	Peak
@	5825	97.89	14.69	112.58	-	-	Peak
-	5923.5	41.3	14.99	56.29	69.31	-13.02	Peak
-	5930.5	41.16	15	56.16	68.2	-12.04	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)	
-	11650	33.76	18.63	52.39	54	-1.61	Average
-	11650	43.69	18.63	62.32	74	-11.68	Peak
@	5825	105.63	14.69	120.32	-	-	Peak
-	5876.5	52.72	14.89	67.61	104.09	-36.48	Peak
-	5928.5	42.46	14.99	57.45	68.2	-10.75	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. "@": Fundamental Frequency.
5. The other emission levels were very low against the limit.

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802.11ax (HE40)

EUT Test Condition		Measurement Detail	
Channel	Channel 38	Frequency Range	1 GHz ~ 40 GHz

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)	
-	10380	31.36	17.49	48.85	68.2	-19.35	Peak
-	5123.55	30.95	13.45	44.4	54	-9.6	Average
@	5190	78.45	13.4	91.85	-	-	Average
-	5069.65	42.7	13.37	56.07	74	-17.93	Peak
@	5190	88.25	13.4	101.65	-	-	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)	
-	10380	31.17	17.49	48.66	68.2	-19.54	Peak
-	5149.8	40.24	13.43	53.67	54	-0.33	Average
@	5190	88.87	13.4	102.27	-	-	Average
-	5149.45	49.43	13.43	62.86	74	-11.14	Peak
@	5190	101.01	13.4	114.41	-	-	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. "@": Fundamental Frequency.
5. The other emission levels were very low against the limit.

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EUT Test Condition		Measurement Detail	
Channel	Channel 46	Frequency Range	1 GHz ~ 40 GHz

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)	
-	10460	32.02	17.66	49.68	68.2	-18.52	Peak
-	5082.25	31.02	13.4	44.42	54	-9.58	Average
@	5230	78.34	13.3	91.64	-	-	Average
-	5050.75	42.97	13.31	56.28	74	-17.72	Peak
@	5230	88.3	13.3	101.6	-	-	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)	
-	10460	30.76	17.66	48.42	68.2	-19.78	Peak
-	5033.25	32.8	13.11	45.91	54	-8.09	Average
@	5230	90.01	13.3	103.31	-	-	Average
-	5042.35	43.66	13.21	56.87	74	-17.13	Peak
@	5230	98.63	13.3	111.93	-	-	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. "@": Fundamental Frequency.
5. The other emission levels were very low against the limit.

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EUT Test Condition		Measurement Detail	
Channel	Channel 54	Frequency Range	1 GHz ~ 40 GHz

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)	
-	10540	31.6	17.72	49.32	68.2	-18.88	Peak
@	5270	79.52	13.22	92.74	-	-	Average
-	5458.5	28.93	13.7	42.63	54	-11.37	Average
@	5270	87.08	13.22	100.3	-	-	Peak
-	5375.1	40.28	13.33	53.61	74	-20.39	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)	
-	10540	31.06	17.72	48.78	68.2	-19.42	Peak
@	5270	90.07	13.22	103.29	-	-	Average
-	5358.9	30	13.29	43.29	54	-10.71	Average
@	5270	98.56	13.22	111.78	-	-	Peak
-	5457.3	40.37	13.69	54.06	74	-19.94	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. "@": Fundamental Frequency.
5. The other emission levels were very low against the limit.

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EUT Test Condition		Measurement Detail	
Channel	Channel 62	Frequency Range	1 GHz ~ 40 GHz

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)	
*	10620	31.28	17.78	49.06	74	-24.94	Peak
@	5310	79.94	13.21	93.15	-	-	Average
-	5453.1	28.69	13.68	42.37	54	-11.63	Average
@	5310	87.99	13.21	101.2	-	-	Peak
-	5434.2	40.29	13.6	53.89	74	-20.11	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)	
*	10620	31.32	17.78	49.1	74	-24.9	Peak
@	5310	89.6	13.21	102.81	-	-	Average
-	5350.2	39.18	13.26	52.44	54	-1.56	Average
@	5310	97.49	13.21	110.7	-	-	Peak
-	5351.7	46.01	13.26	59.27	74	-14.73	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. "@": Fundamental Frequency.
5. " * ": The peak result under 20 dB above and complies with AVG limit, AVG result is deemed to comply with AVG limit.
6. The other emission levels were very low against the limit.

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EUT Test Condition		Measurement Detail	
Channel	Channel 102	Frequency Range	1 GHz ~ 40 GHz

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)	
*	11020	32.58	18.32	50.9	74	-23.1	Peak
-	5434.65	28.99	13.6	42.59	54	-11.41	Average
-	5434.65	40.92	13.6	54.52	74	-19.48	Peak
-	5461.95	40.22	13.71	53.93	68.2	-14.27	Peak
@	5510	79.54	13.84	93.38	-	-	Average
@	5510	87.37	13.84	101.21	-	-	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)	
*	11020	34.84	18.32	53.16	74	-20.84	Peak
-	5459.85	33.13	13.7	46.83	54	-7.17	Average
-	5459.85	47.88	13.7	61.58	74	-12.42	Peak
-	5468.6	52.32	13.74	66.06	68.2	-2.14	Peak
@	5510	89.55	13.84	103.39	-	-	Average
@	5510	98.98	13.84	112.82	-	-	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. "@": Fundamental Frequency.
5. " * ": The peak result under 20 dB above and complies with AVG limit, AVG result is deemed to comply with AVG limit.
6. The other emission levels were very low against the limit.

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EUT Test Condition		Measurement Detail	
Channel	Channel 110	Frequency Range	1 GHz ~ 40 GHz

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)	
*	11100	33.32	18.49	51.81	74	-22.19	Peak
-	5452.5	28.8	13.67	42.47	54	-11.53	Average
-	5452.5	40.65	13.67	54.32	74	-19.68	Peak
-	5463	40.58	13.72	54.3	68.2	-13.9	Peak
@	5550	80	13.88	93.88	-	-	Average
@	5550	88.12	13.88	102	-	-	Peak
-	5745.8	40.29	14.28	54.57	68.2	-13.63	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)	
*	11100	35.36	18.49	53.85	74	-20.15	Peak
-	5446.9	30.36	13.66	44.02	54	-9.98	Average
-	5446.9	40.9	13.66	54.56	74	-19.44	Peak
-	5469.65	40.06	13.74	53.8	68.2	-14.4	Peak
@	5550	89.31	13.88	103.19	-	-	Average
@	5550	98.03	13.88	111.91	-	-	Peak
-	5748.25	41.36	14.29	55.65	68.2	-12.55	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. "@": Fundamental Frequency.
5. " * ": The peak result under 20 dB above and complies with AVG limit, AVG result is deemed to comply with AVG limit.
6. The other emission levels were very low against the limit.

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EUT Test Condition		Measurement Detail	
Channel	Channel 134	Frequency Range	1 GHz ~ 40 GHz

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)	
*	11340	34.04	18.55	52.59	74	-21.41	Peak
@	5670	80.18	14.02	94.2	-	-	Average
@	5670	88.75	14.02	102.77	-	-	Peak
-	5730.05	41.6	14.2	55.8	68.2	-12.4	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)	
-	11340	29.76	18.55	48.31	54	-5.69	Average
-	11340	36.97	18.55	55.52	74	-18.48	Peak
@	5670	89.93	14.02	103.95	-	-	Average
@	5670	98.42	14.02	112.44	-	-	Peak
-	5739.15	41.18	14.25	55.43	68.2	-12.77	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. "@": Fundamental Frequency.
5. " * ": The peak result under 20 dB above and complies with AVG limit, AVG result is deemed to comply with AVG limit.
6. The other emission levels were very low against the limit.

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EUT Test Condition		Measurement Detail	
Channel	Channel 151	Frequency Range	1 GHz ~ 40 GHz

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)	
*	11510	34.06	19.03	53.09	74	-20.91	Peak
-	5612.5	41.4	14.02	55.42	68.2	-12.78	Peak
-	5700	52.28	14.05	66.33	105.2	-38.87	Peak
@	5755	96.48	14.33	110.81	-	-	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)	
-	11510	29.85	19.03	48.88	54	-5.12	Average
-	11510	36.73	19.03	55.76	74	-18.24	Peak
-	5647.5	48.76	14.01	62.77	68.2	-5.43	Peak
-	5699	66.42	14.05	80.47	104.46	-23.99	Peak
@	5755	105.27	14.33	119.6	-	-	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. "@": Fundamental Frequency.
5. " * ": The peak result under 20 dB above and complies with AVG limit, AVG result is deemed to comply with AVG limit.
6. The other emission levels were very low against the limit.

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EUT Test Condition		Measurement Detail	
Channel	Channel 159	Frequency Range	1 GHz ~ 40 GHz

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)	
-	11590	31.14	18.84	49.98	54	-4.02	Average
-	11590	38.1	18.84	56.94	74	-17.06	Peak
@	5795	96.51	14.53	111.04	-	-	Peak
-	5883.5	42.98	14.92	57.9	98.89	-40.99	Peak
-	5979.5	40.94	15.11	56.05	68.2	-12.15	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)	
-	11590	34.08	18.84	52.92	54	-1.08	Average
-	11590	41.05	18.84	59.89	74	-14.11	Peak
@	5795	104.81	14.53	119.34	-	-	Peak
-	5887	53.3	14.92	68.22	96.29	-28.07	Peak
-	5925	45.8	14.99	60.79	68.2	-7.41	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. "@": Fundamental Frequency.
5. The other emission levels were very low against the limit.

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EUT Test Condition		Measurement Detail	
Channel	Channel 42	Frequency Range	1 GHz ~ 40 GHz

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)	
-	10420	31.65	17.6	49.25	68.2	-18.95	Peak
-	5109.2	31.02	13.46	44.48	54	-9.52	Average
@	5210	75.45	13.36	88.81	-	-	Average
-	5070.35	42.42	13.37	55.79	74	-18.21	Peak
@	5210	86.92	13.36	100.28	-	-	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)	
-	10420	31.23	17.6	48.83	68.2	-19.37	Peak
-	5144.55	39.86	13.43	53.29	54	-0.71	Average
@	5210	85.62	13.36	98.98	-	-	Average
-	5135.45	50.21	13.43	63.64	74	-10.36	Peak
@	5210	94.69	13.36	108.05	-	-	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. "@": Fundamental Frequency.
5. The other emission levels were very low against the limit.

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Doc No: 17-EM-F0878 / 6.0



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EUT Test Condition		Measurement Detail	
Channel	Channel 58	Frequency Range	1 GHz ~ 40 GHz

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)	
-	10580	29.36	17.73	47.09	68.2	-21.11	Peak
@	5290	76.58	13.21	89.79	-	-	Average
-	5458.8	29.01	13.7	42.71	54	-11.29	Average
@	5290	84.75	13.21	97.96	-	-	Peak
-	5428.8	40.46	13.57	54.03	74	-19.97	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)	
-	10580	29.91	17.73	47.64	68.2	-20.56	Peak
@	5290	86.4	13.21	99.61	-	-	Average
-	5350.2	38.4	13.26	51.66	54	-2.34	Average
@	5290	96.16	13.21	109.37	-	-	Peak
-	5360.4	49.2	13.29	62.49	74	-11.51	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. "@": Fundamental Frequency.
5. The other emission levels were very low against the limit.

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EUT Test Condition		Measurement Detail	
Channel	Channel 106	Frequency Range	1 GHz ~ 40 GHz

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)	
*	11060	32.22	18.41	50.63	74	-23.37	Peak
-	5445.15	30.34	13.65	43.99	54	-10.01	Average
-	5445.15	39.27	13.65	52.92	74	-21.08	Peak
-	5464.4	39.74	13.72	53.46	68.2	-14.74	Peak
@	5530	76.24	13.87	90.11	-	-	Average
@	5530	82.87	13.87	96.74	-	-	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)	
*	11060	33.97	18.41	52.38	74	-21.62	Peak
-	5456	37.62	13.69	51.31	54	-2.69	Average
-	5456	49.41	13.69	63.1	74	-10.9	Peak
-	5462.3	51.36	13.71	65.07	68.2	-3.13	Peak
@	5530	85.86	13.87	99.73	-	-	Average
@	5530	94.37	13.87	108.24	-	-	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. "@": Fundamental Frequency.
5. " * ": The peak result under 20 dB above and complies with AVG limit, AVG result is deemed to comply with AVG limit.
6. The other emission levels were very low against the limit.

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EUT Test Condition		Measurement Detail	
Channel	Channel 122	Frequency Range	1 GHz ~ 40 GHz

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)	
*	11220	32.16	18.25	50.41	74	-23.59	Peak
-	5426.6	29.33	13.56	42.89	54	-11.11	Average
-	5426.6	40.39	13.56	53.95	74	-20.05	Peak
-	5460.9	39.72	13.71	53.43	68.2	-14.77	Peak
@	5610	81.89	14.03	95.92	-	-	Average
@	5610	89.95	14.03	103.98	-	-	Peak
-	5727.25	40.9	14.19	55.09	68.2	-13.11	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)	
*	11220	35.06	18.25	53.31	74	-20.69	Peak
-	5457.75	33.58	13.7	47.28	54	-6.72	Average
-	5457.75	46.02	13.7	59.72	74	-14.28	Peak
-	5468.95	47.26	13.74	61	68.2	-7.2	Peak
@	5610	90.93	14.03	104.96	-	-	Average
@	5610	99.91	14.03	113.94	-	-	Peak
-	5726.2	52.88	14.18	67.06	68.2	-1.14	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. "@": Fundamental Frequency.
5. " * ": The peak result under 20 dB above and complies with AVG limit, AVG result is deemed to comply with AVG limit.
6. The other emission levels were very low against the limit.

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EUT Test Condition		Measurement Detail	
Channel	Channel 155	Frequency Range	1 GHz ~ 40 GHz

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)	
*	11550	33.45	18.93	52.38	74	-21.62	Peak
-	5645	42.08	14.01	56.09	68.2	-12.11	Peak
-	5692.5	49.52	14.05	63.57	99.67	-36.1	Peak
@	5775	91.97	14.44	106.41	-	-	Peak
-	5875	45.33	14.89	60.22	105.2	-44.98	Peak
-	5960	40.56	15.05	55.61	68.2	-12.59	Peak
*	11550	33.45	18.93	52.38	74	-21.62	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)	
*	11550	34.7	18.93	53.63	74	-20.37	Peak
-	5645.5	51.86	14.01	65.87	68.2	-2.33	Peak
-	5685.5	69.7	14.04	83.74	94.5	-10.76	Peak
@	5775	101.4	14.44	115.84	-	-	Peak
-	5875	63.41	14.89	78.3	105.2	-26.9	Peak
-	5933.5	49.75	15	64.75	68.2	-3.45	Peak
*	11550	34.7	18.93	53.63	74	-20.37	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. "@": Fundamental Frequency.
5. " * ": The peak result under 20 dB above and complies with AVG limit, AVG result is deemed to comply with AVG limit.
6. The other emission levels were very low against the limit.

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802.11ax (HE160)

EUT Test Condition		Measurement Detail	
Channel	Channel 50	Frequency Range	1 GHz ~ 40 GHz

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)	
-	10500	31.19	17.72	48.91	68.2	-19.29	Peak
-	5061.18	31.28	13.33	44.61	54	-9.39	Average
@	5250	72.79	13.24	86.03	-	-	Average
-	5457.24	28.95	13.69	42.64	54	-11.36	Average
-	5040.02	43.63	13.19	56.82	74	-17.18	Peak
@	5250	83.73	13.24	96.97	-	-	Peak
-	5456.32	39.92	13.69	53.61	74	-20.39	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)	
-	10500	31.05	17.72	48.77	68.2	-19.43	Peak
-	5147.66	39.03	13.42	52.45	54	-1.55	Average
@	5250	83.18	13.24	96.42	-	-	Average
-	5363.4	37.29	13.31	50.6	54	-3.4	Average
-	5129.72	47.19	13.44	60.63	74	-13.37	Peak
@	5250	91.81	13.24	105.05	-	-	Peak
-	5350.52	45.48	13.26	58.74	74	-15.26	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. "@": Fundamental Frequency.
5. The other emission levels were very low against the limit.

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EUT Test Condition		Measurement Detail	
Channel	Channel 114	Frequency Range	1 GHz ~ 40 GHz

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)	
*	11140	31.78	18.38	50.16	74	-23.84	Peak
-	5442.7	29.06	13.64	42.7	54	-11.3	Average
-	5442.7	40.29	13.64	53.93	74	-20.07	Peak
-	5462.65	40.37	13.72	54.09	68.2	-14.11	Peak
@	5570	74.03	13.95	87.98	-	-	Average
@	5570	81.04	13.95	94.99	-	-	Peak
-	5748.95	41.15	14.31	55.46	68.2	-12.74	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)	
*	11140	31.94	18.38	50.32	74	-23.68	Peak
-	5454.25	39.25	13.69	52.94	54	-1.06	Average
-	5454.25	51.39	13.69	65.08	74	-8.92	Peak
-	5469.65	51.03	13.74	64.77	68.2	-3.43	Peak
@	5570	83.97	13.95	97.92	-	-	Average
@	5570	92.1	13.95	106.05	-	-	Peak
-	5729	44.75	14.2	58.95	68.2	-9.25	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. "@": Fundamental Frequency.
5. " * ": The peak result under 20 dB above and complies with AVG limit, AVG result is deemed to comply with AVG limit.
6. The other emission levels were very low against the limit.

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9 kHz ~ 30 MHz Data:

For 9 kHz to 30 MHz radiated emission have performed all modes of operation were investigated. The amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required to be report.

No non-compliance noted:

KDB 414788 D01 OATS and Chamber Correlation Justification

- Base on FCC 15.31 (f) (2): measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field.

- OATs and chamber correlation testing had been performed and chamber measured test results is the worst case test result.

Although these tests were performed other than open area test site, adequate comparison measurements were confirmed against 30m open area test site. Therefore sufficient tests were made to demonstrate that the alternative site produces results that correlate with the ones of tests made in an open field based on KDB 414788.

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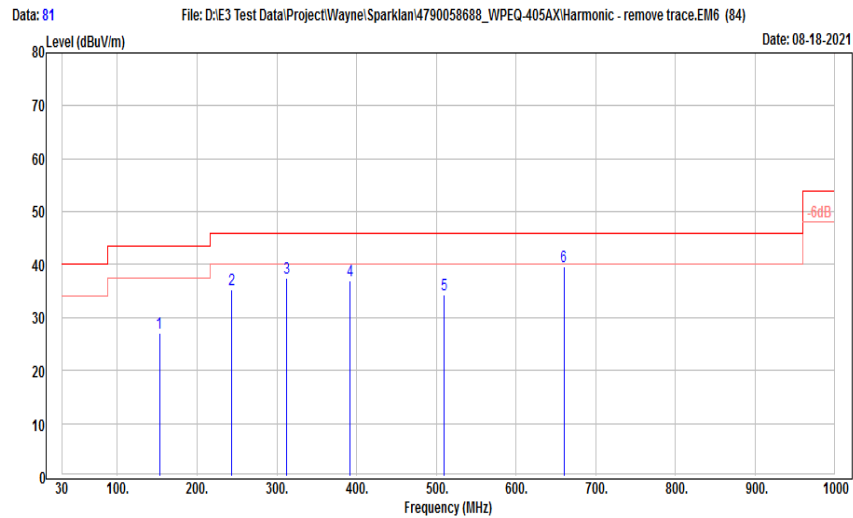


30 MHz ~ 1 GHz Data

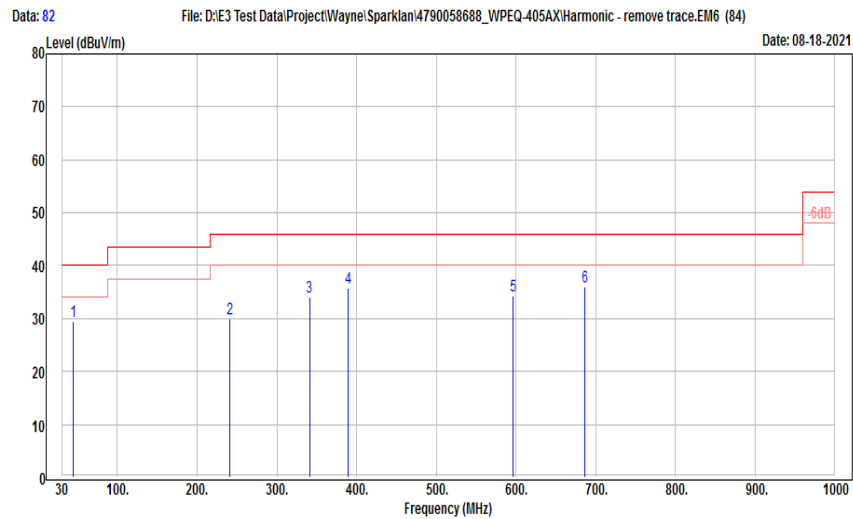
802.11ax (HE20)

EUT Test Condition		Measurement Detail	
Channel	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)	
-	153.19	38.32	-11.34	26.98	43.5	-16.52	Peak
-	243.4	47.28	-12.02	35.26	46	-10.74	Peak
-	312.27	47.06	-9.65	37.41	46	-8.59	Peak
-	391.81	44.16	-7.24	36.92	46	-9.08	Peak
-	510.15	38.76	-4.52	34.24	46	-11.76	Peak
-	660.5	40.88	-1.3	39.58	46	-6.42	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)	
-	44.55	40.82	-11.34	29.48	40	-10.52	Peak
-	241.46	41.96	-12.07	29.89	46	-16.11	Peak
-	341.37	42.74	-8.72	34.02	46	-11.98	Peak
-	389.87	43	-7.25	35.75	46	-10.25	Peak
-	596.48	36.44	-2.05	34.39	46	-11.61	Peak
-	686.69	36.66	-0.62	36.04	46	-9.96	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) - Preamplifier 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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9.8. 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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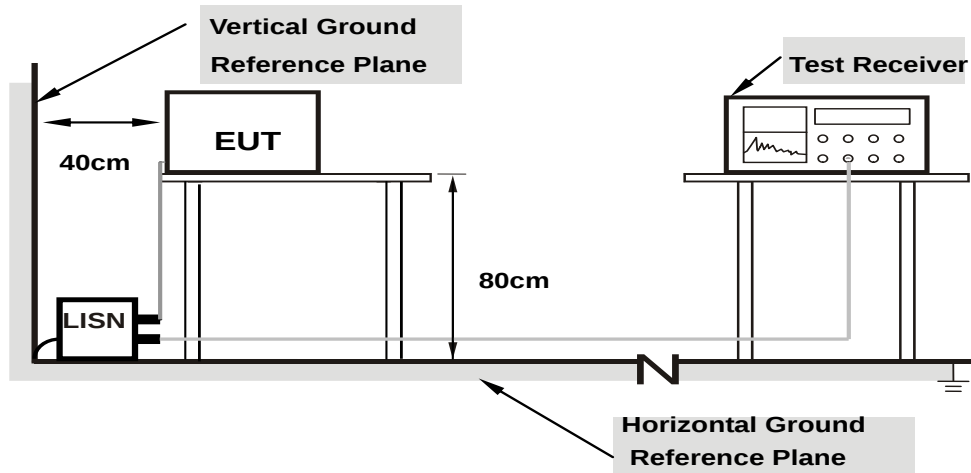
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Test Setup



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

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

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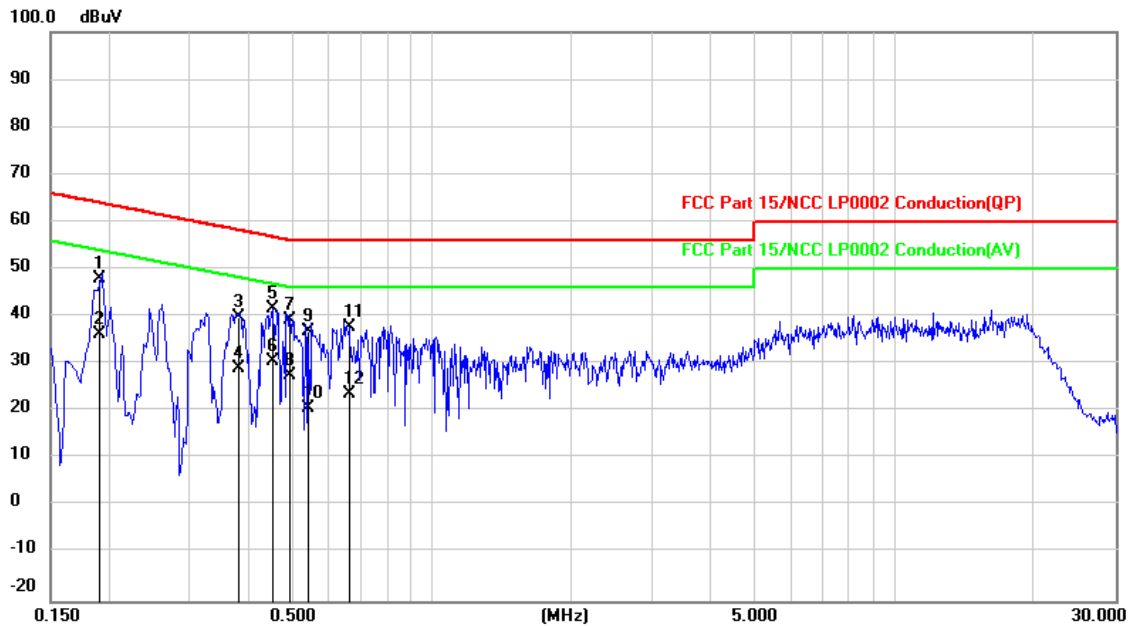


Test Data

802.11ax (HE20)

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

Phase of Power : Line (L)



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No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	dB	(dBuV)	(dBuV)	(dB)	
1	0.1910	47.98	0.08	48.06	63.99	-15.93	QP
2	0.1910	36.27	0.08	36.35	53.99	-17.64	AVG
3	0.3823	39.81	0.10	39.91	58.23	-18.32	QP
4	0.3823	28.91	0.10	29.01	48.23	-19.22	AVG
5	0.4575	41.53	0.10	41.63	56.74	-15.11	QP
6	0.4575	30.38	0.10	30.48	46.74	-16.26	AVG
7	0.4904	39.18	0.10	39.28	56.16	-16.88	QP
8	0.4904	27.33	0.10	27.43	46.16	-18.73	AVG
9	0.5445	36.80	0.10	36.90	56.00	-19.10	QP
10	0.5445	20.42	0.10	20.52	46.00	-25.48	AVG
11	0.6583	37.62	0.10	37.72	56.00	-18.28	QP
12	0.6583	23.67	0.10	23.77	46.00	-22.23	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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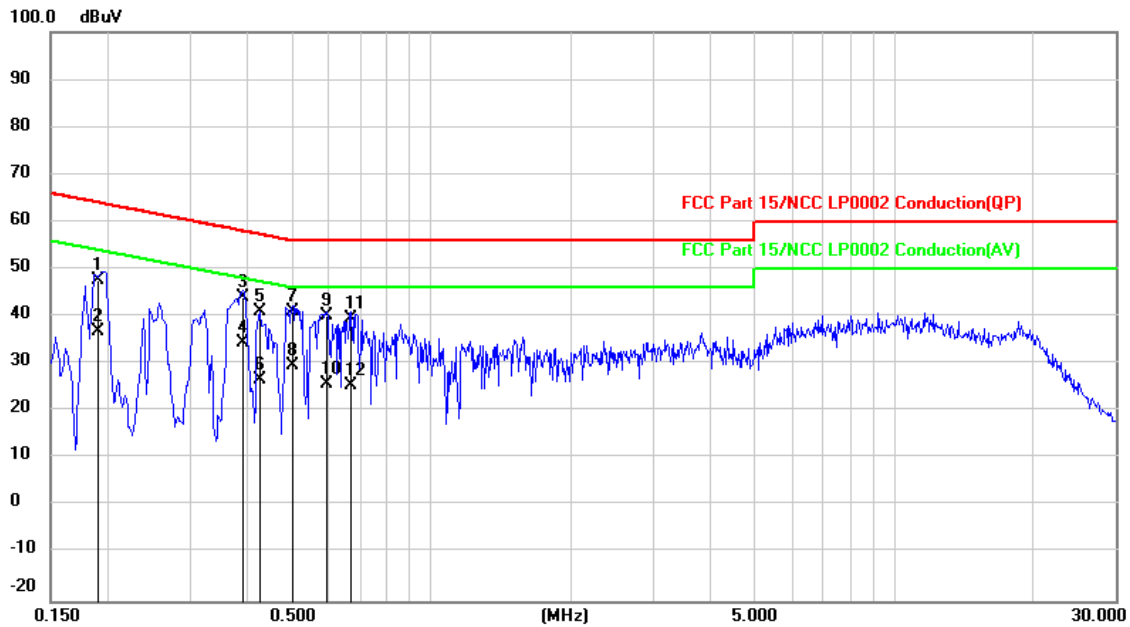
Telephone :+886-2-7737-3000

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

Doc No: 17-EM-F0878 / 6.0



Phase of Power : Neutral (N)



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Doc No: 17-EM-F0878 / 6.0



Test report No. : 4790058688-US-R0-V0
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No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	dB	(dBuV)	(dBuV)	(dB)	
1	0.1900	47.70	0.09	47.79	64.04	-16.25	QP
2	0.1900	36.61	0.09	36.70	54.04	-17.34	AVG
3	0.3894	44.04	0.10	44.14	58.08	-13.94	QP
4	0.3894	34.36	0.10	34.46	48.08	-13.62	AVG
5	0.4240	40.98	0.10	41.08	57.37	-16.29	QP
6	0.4240	26.58	0.10	26.68	47.37	-20.69	AVG
7	0.4982	41.02	0.10	41.12	56.03	-14.91	QP
8	0.4982	29.47	0.10	29.57	46.03	-16.46	AVG
9	0.5930	39.95	0.10	40.05	56.00	-15.95	QP
10	0.5930	25.59	0.10	25.69	46.00	-20.31	AVG
11	0.6690	39.47	0.10	39.57	56.00	-16.43	QP
12	0.6690	25.33	0.10	25.43	46.00	-20.57	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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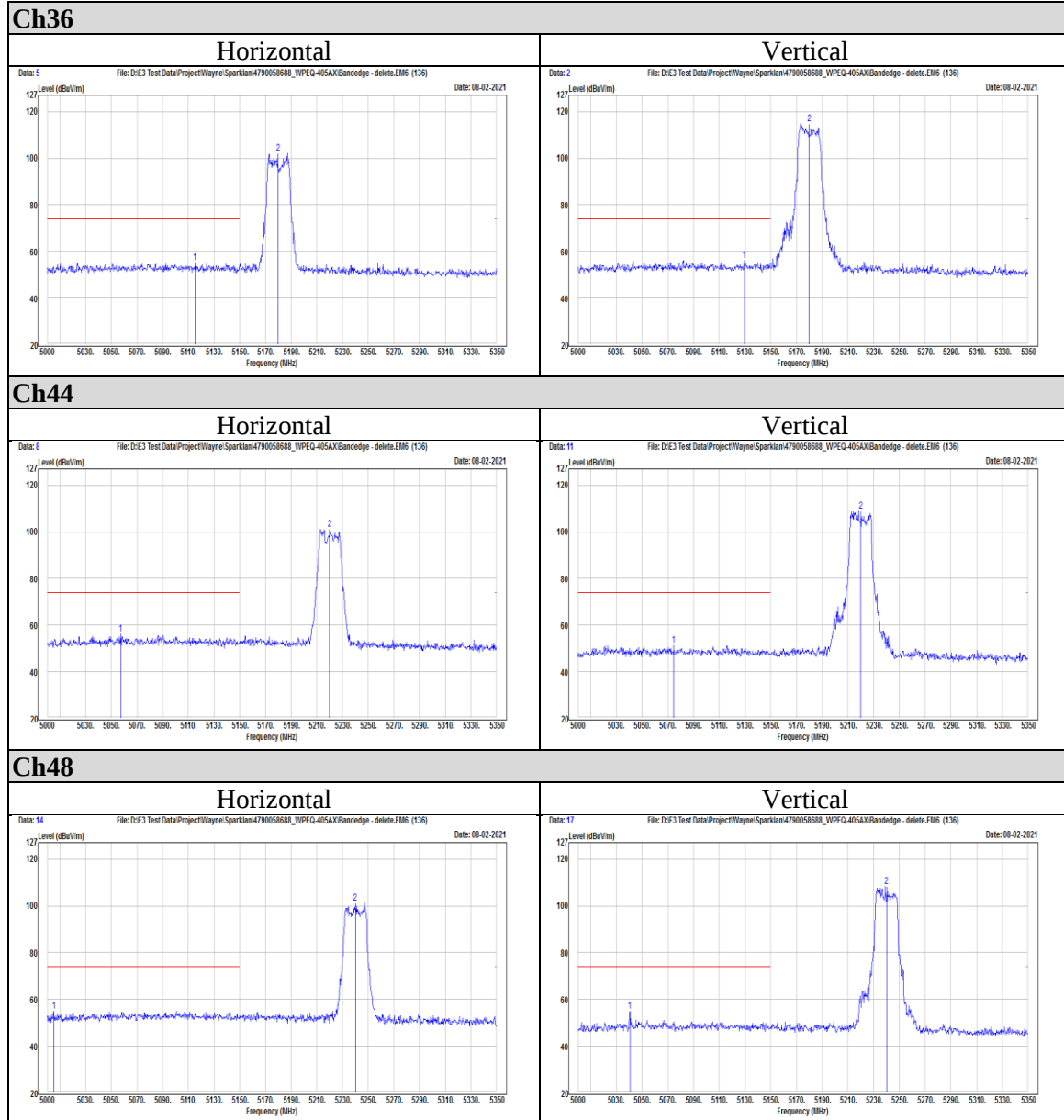
Doc No: 17-EM-F0878 / 6.0



Appendix I Radiated Band Edge and OOB Measurement

802.11a

Peak



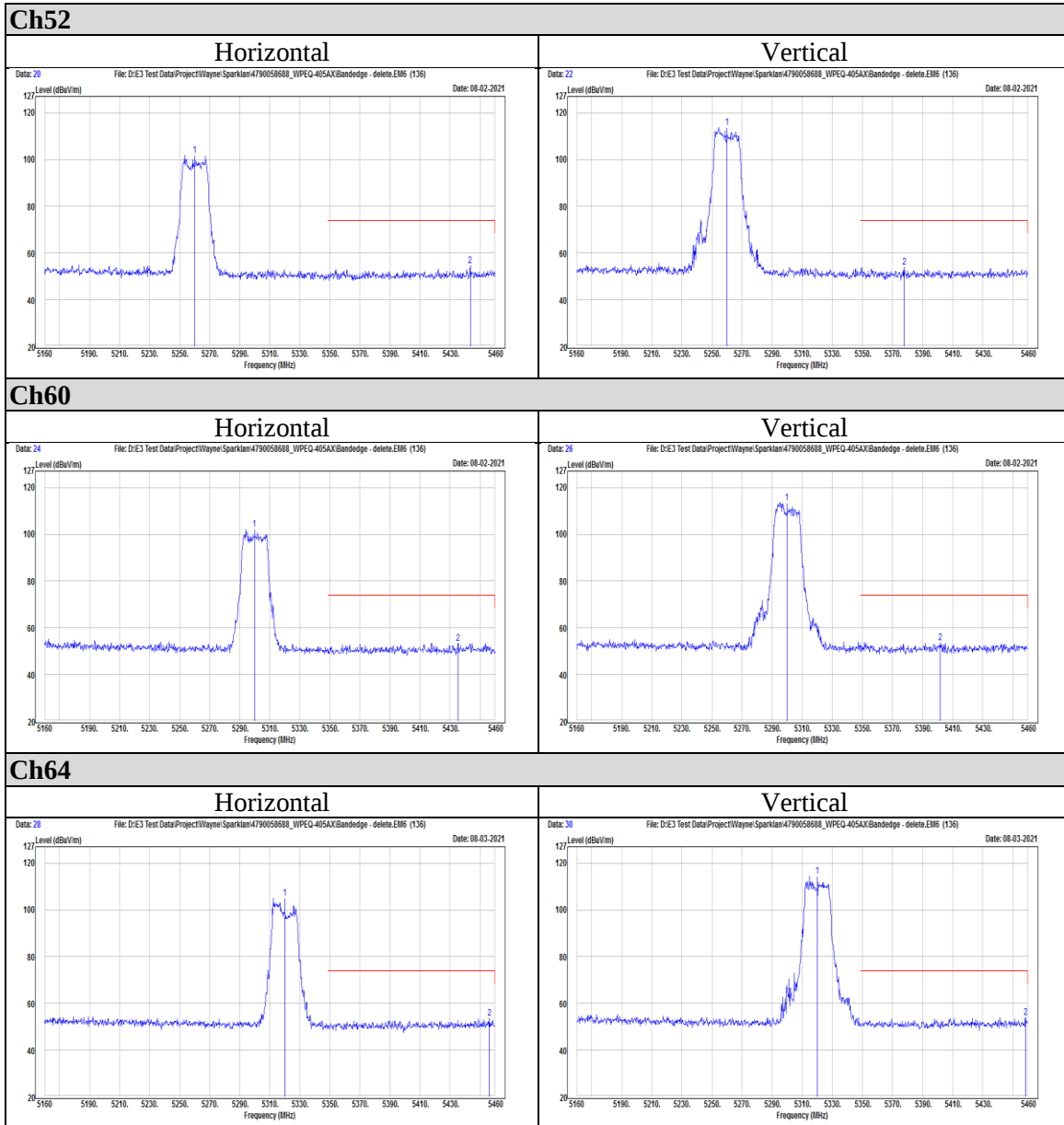
Underwriters Laboratories Taiwan Co., Ltd.

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Telephone : +886-2-7737-3000

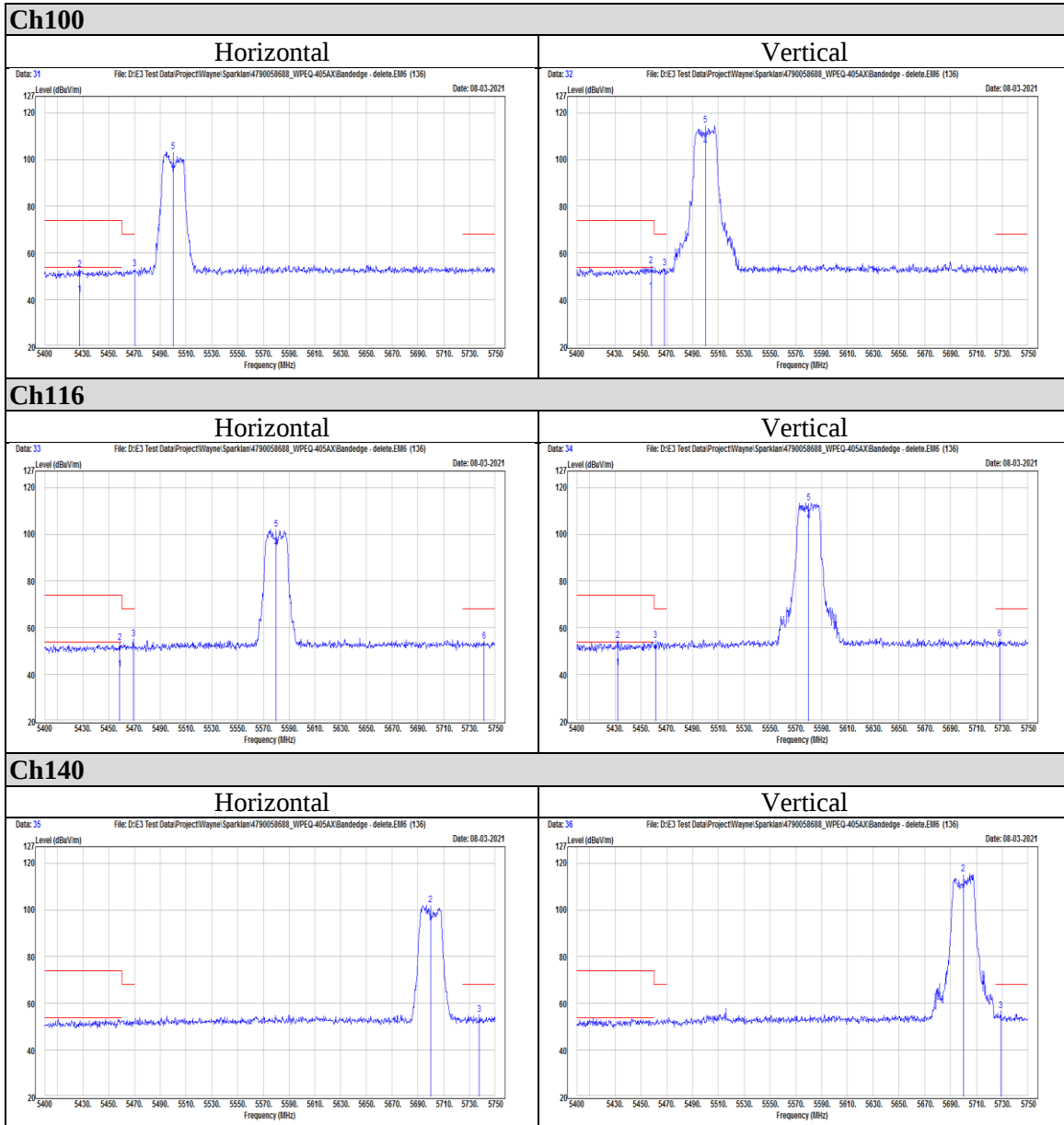
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Doc No: 17-EM-F0878 / 6.0





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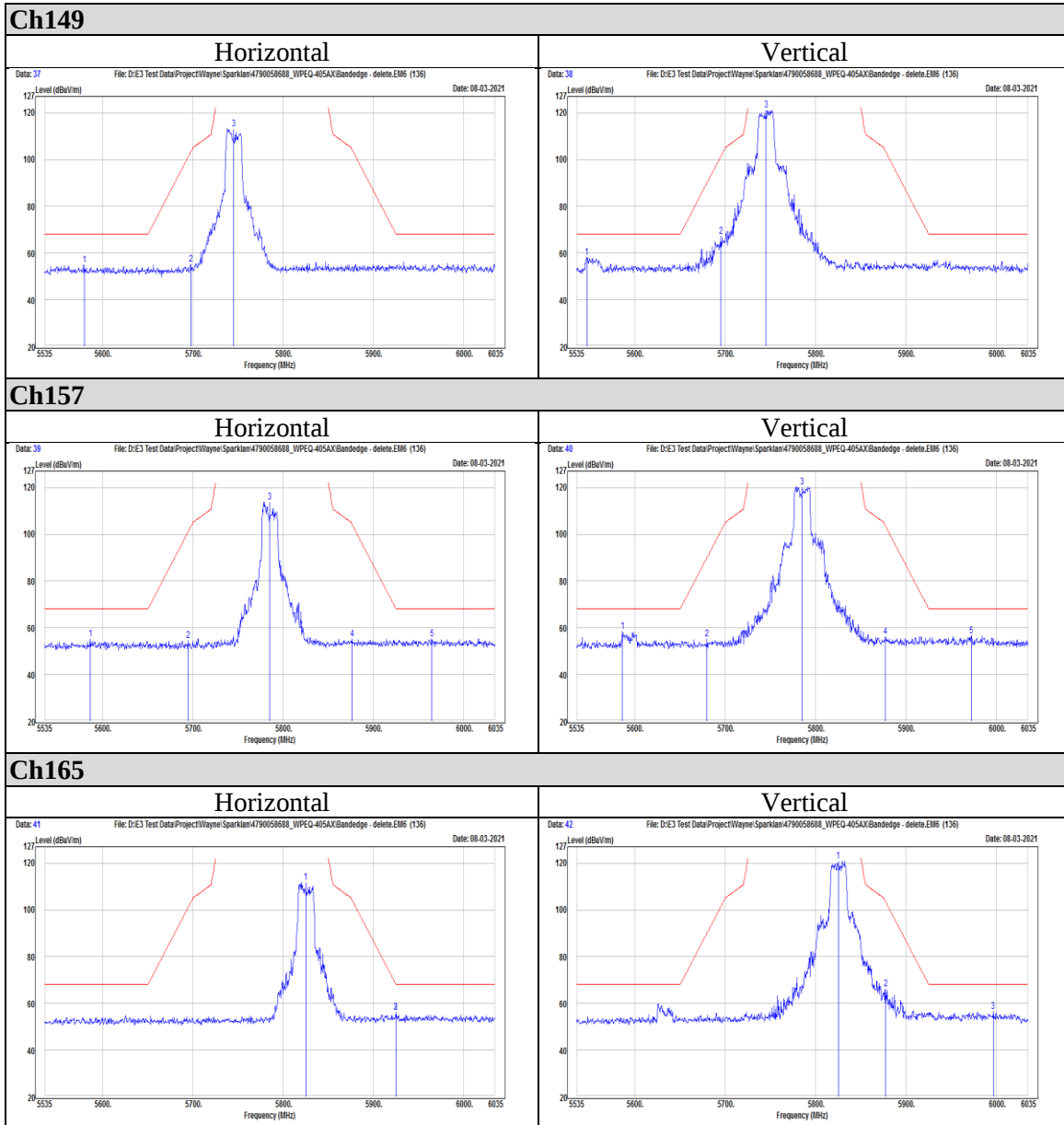
Underwriters Laboratories Taiwan Co., Ltd.

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Telephone : +886-2-7737-3000

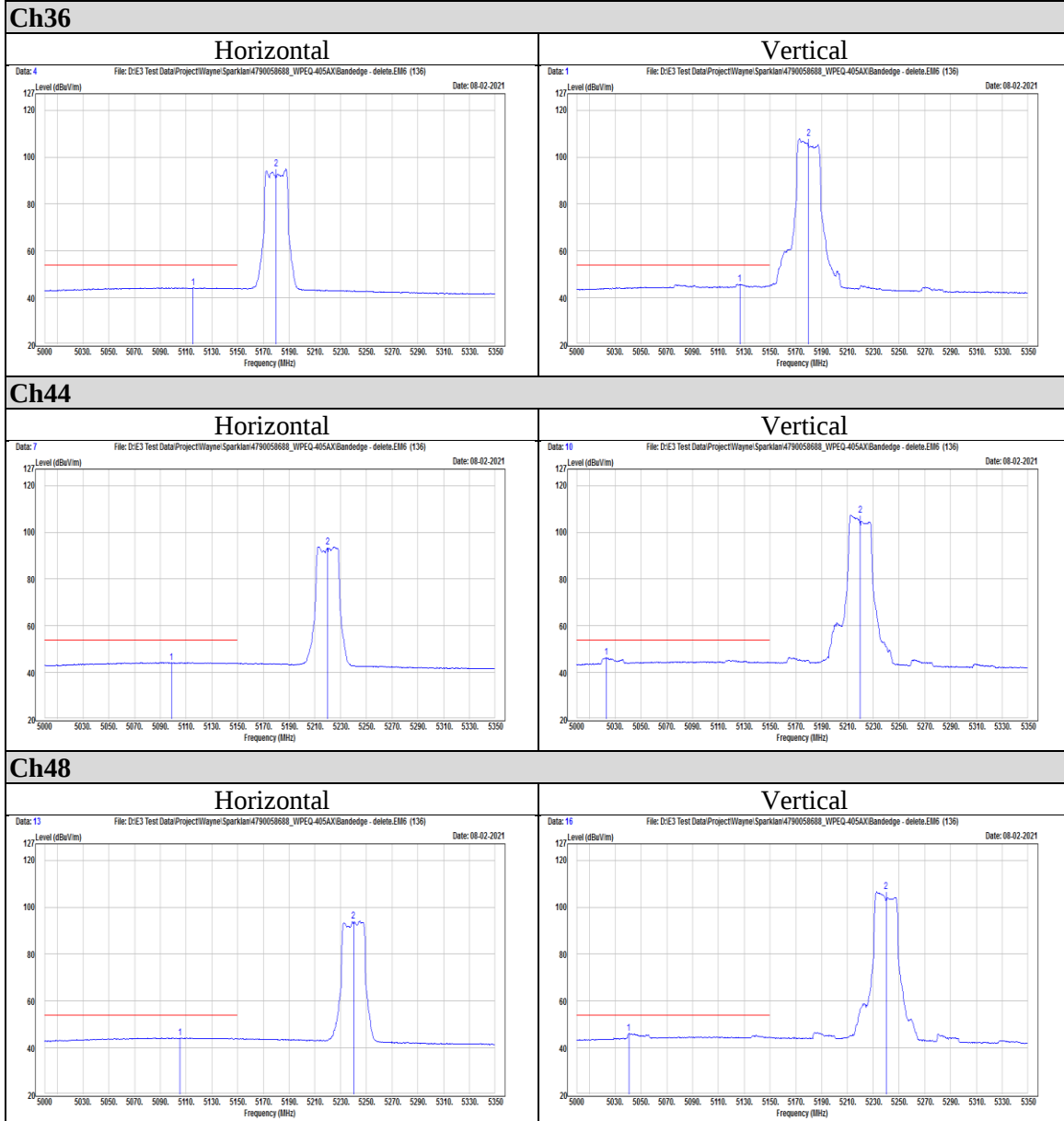
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Doc No: 17-EM-F0878 / 6.0





Average



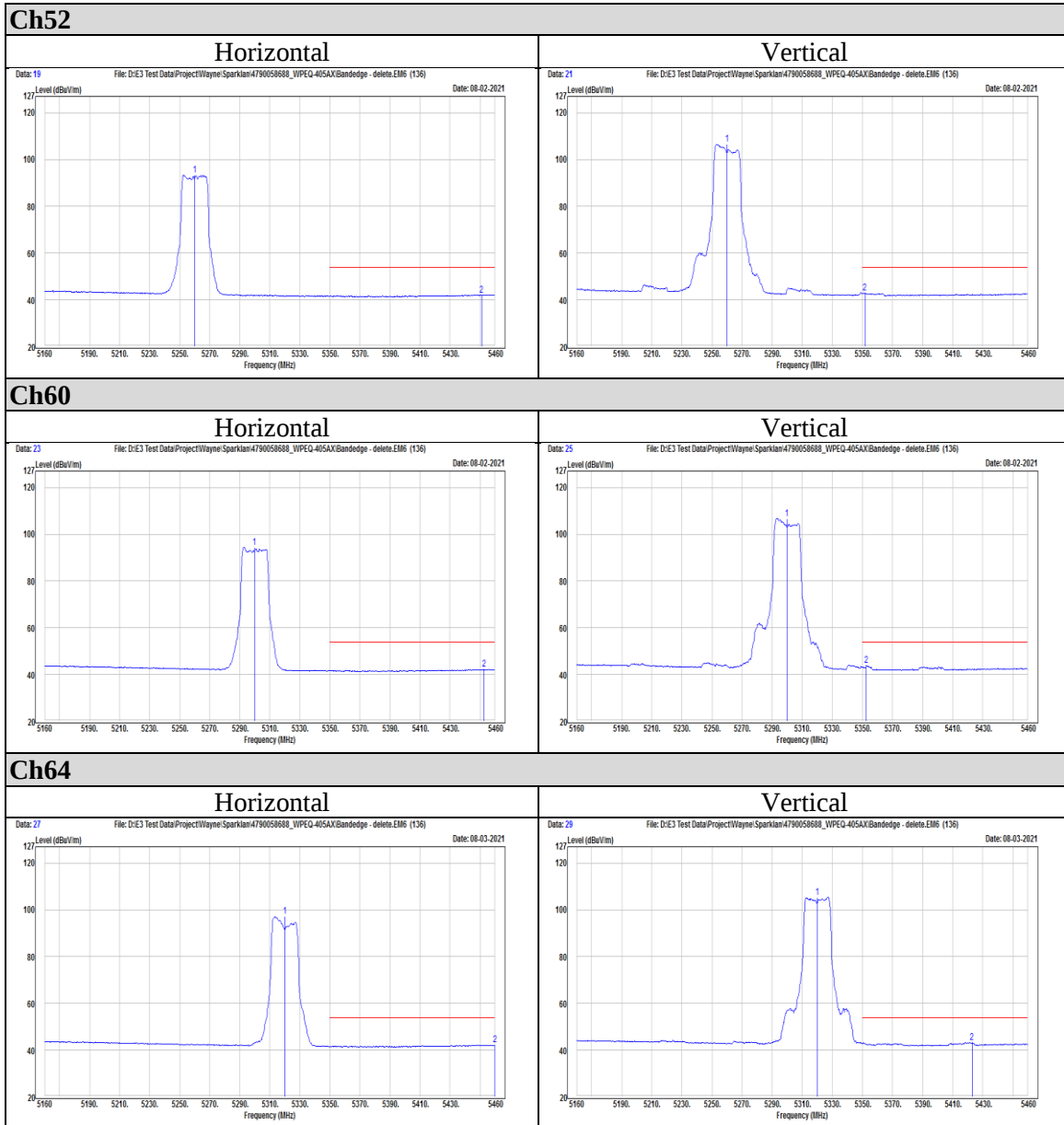
Underwriters Laboratories Taiwan Co., Ltd.

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Telephone : +886-2-7737-3000

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

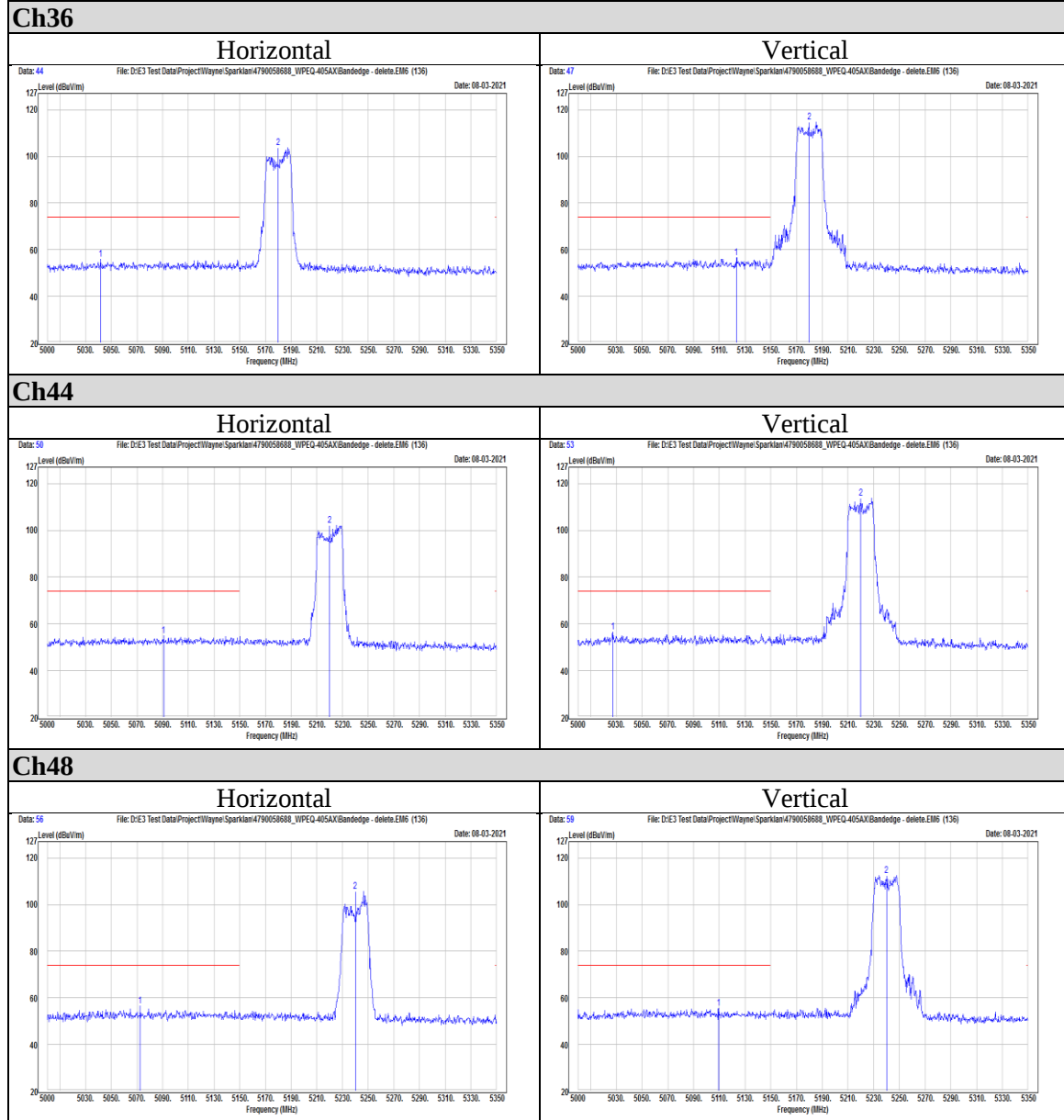
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802.11ax (HE20)

Peak



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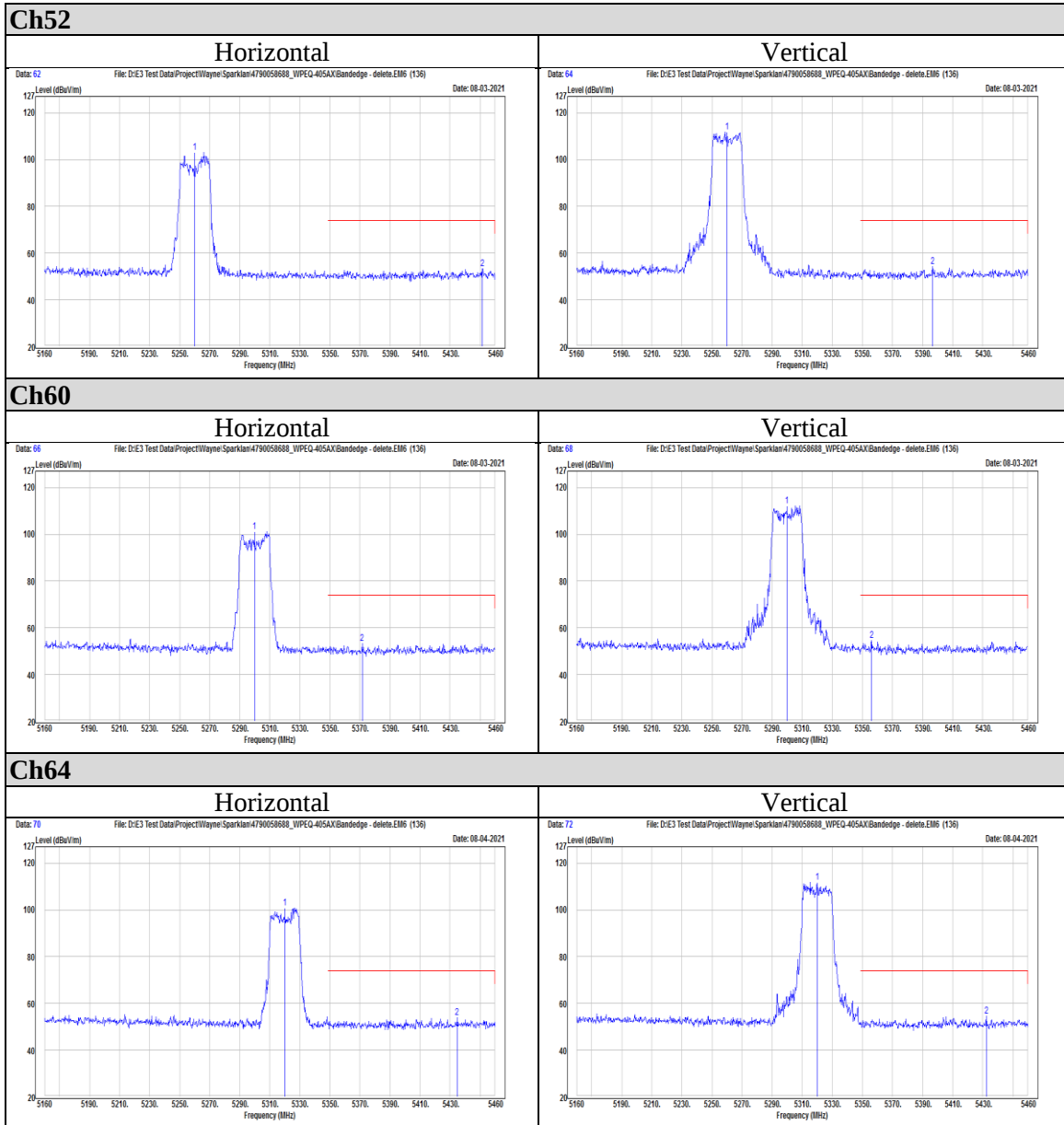
Telephone : +886-2-7737-3000

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

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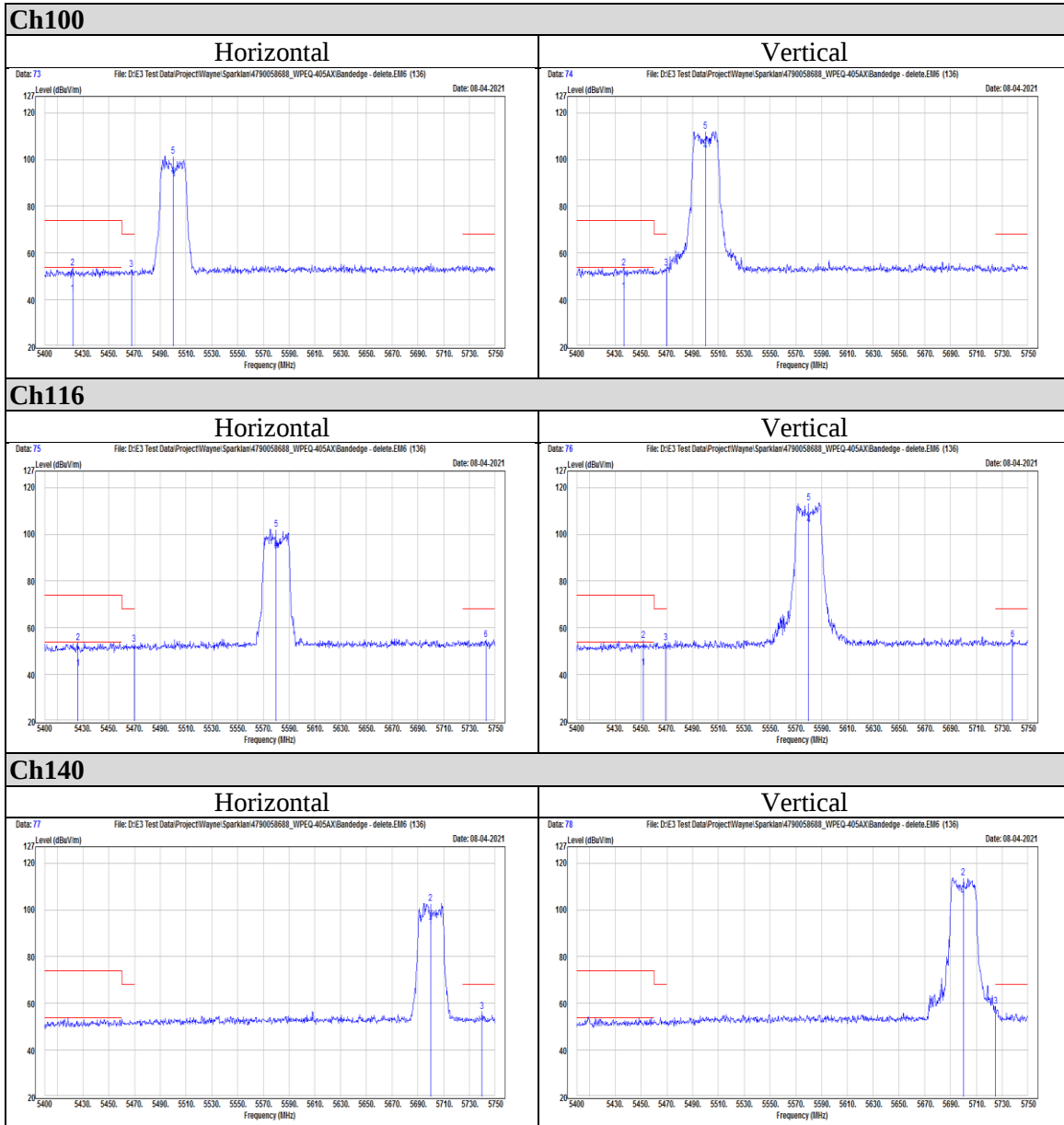
Telephone : +886-2-7737-3000

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

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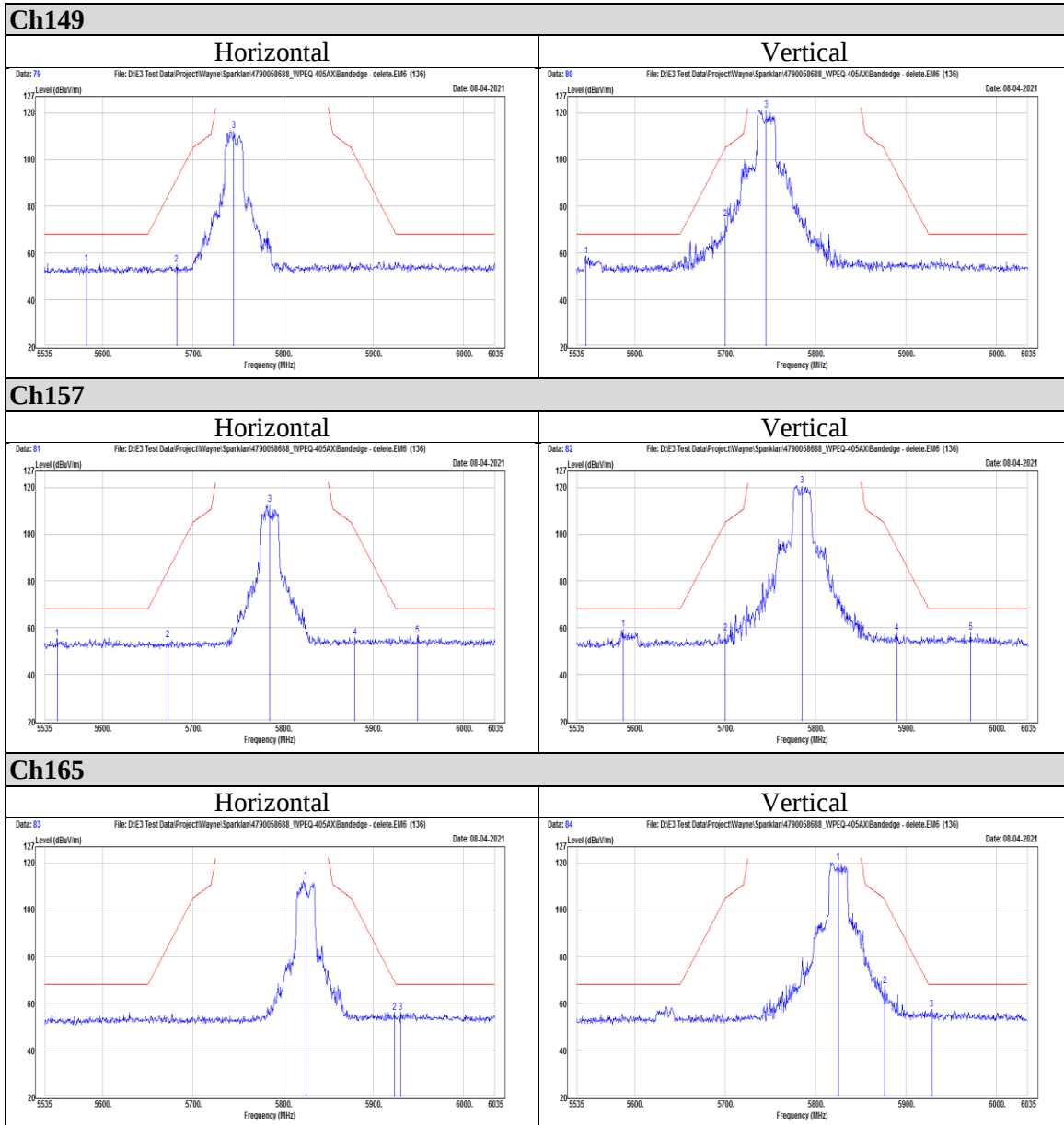
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Telephone : +886-2-7737-3000

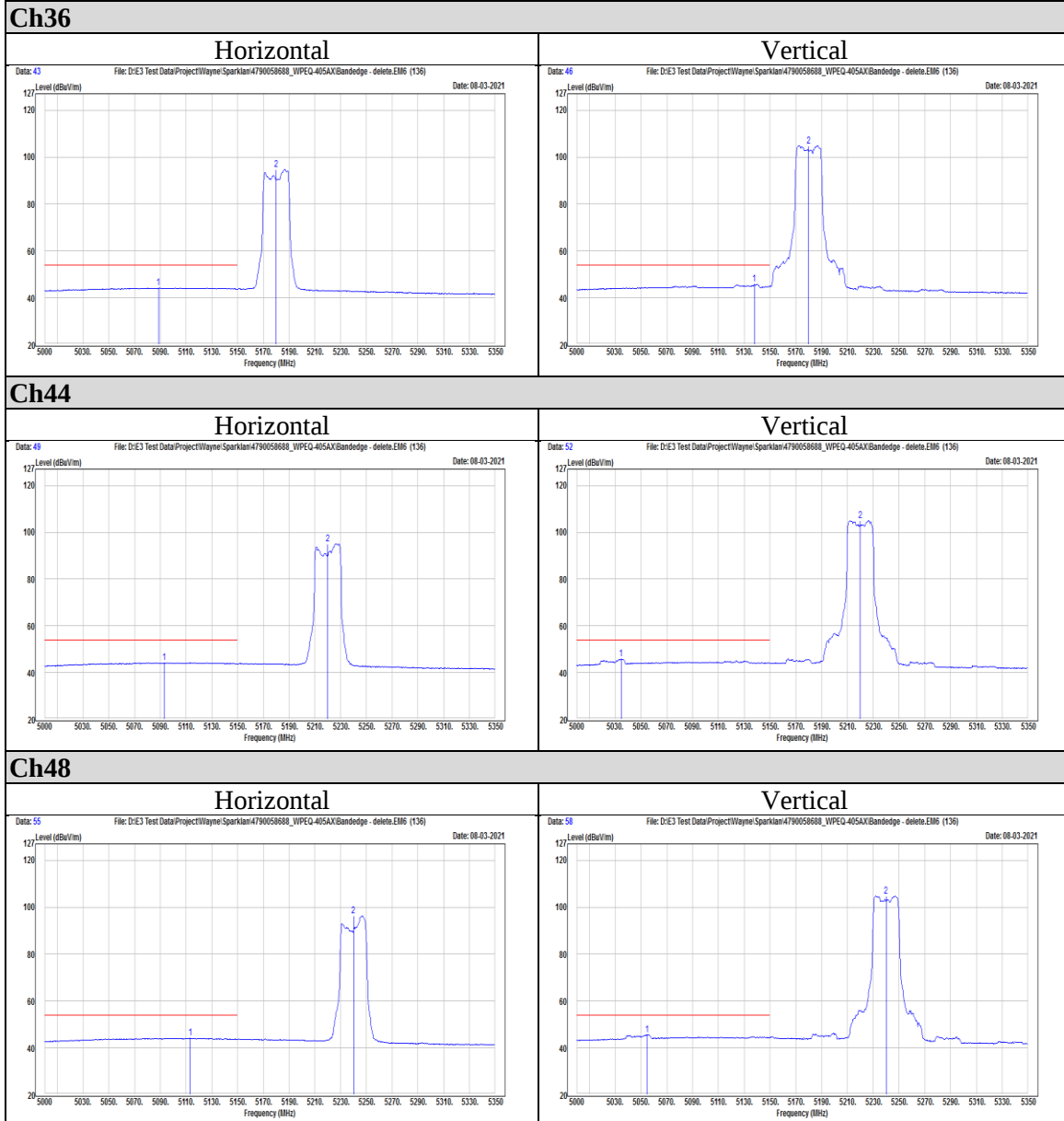
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Average



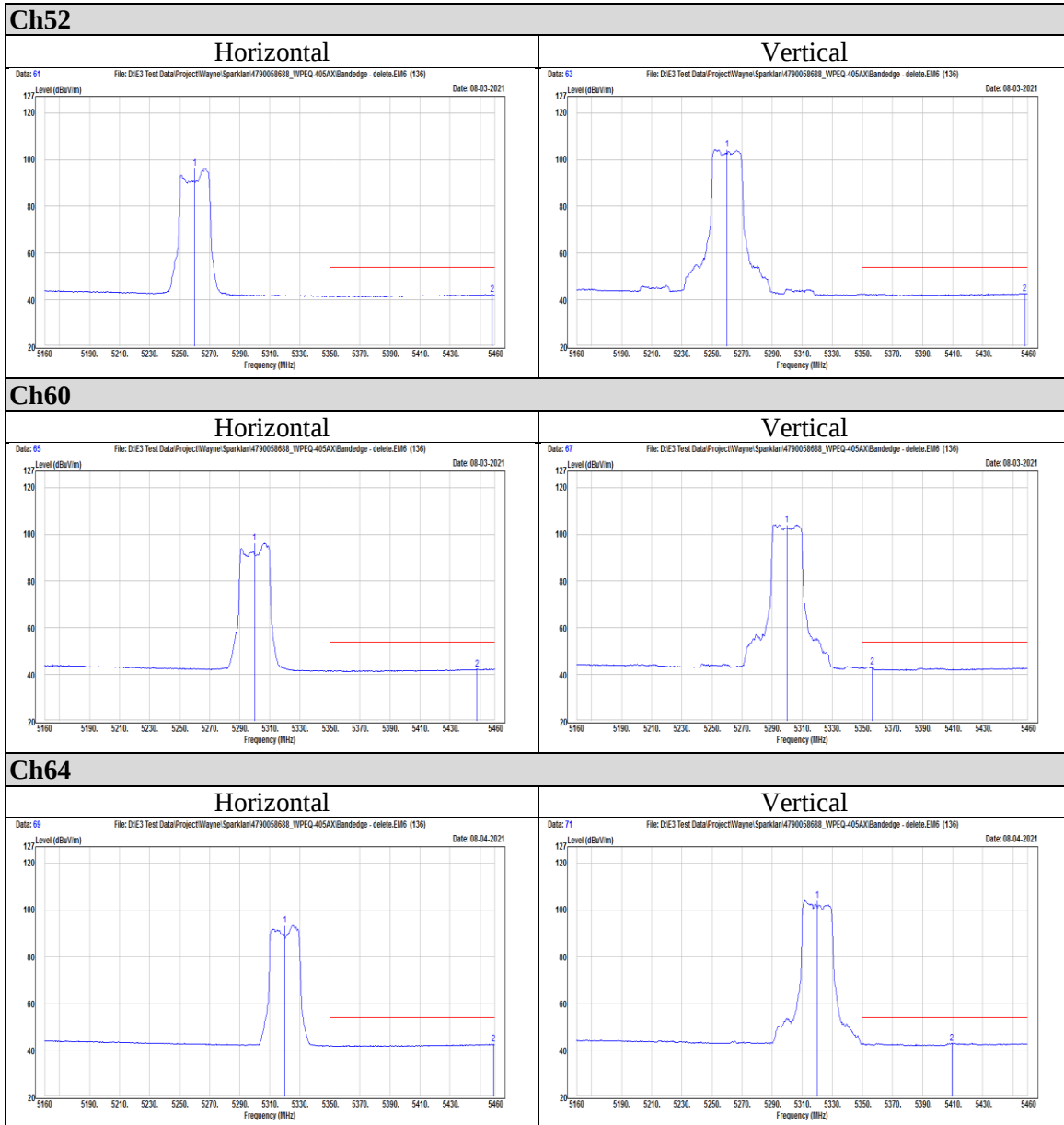
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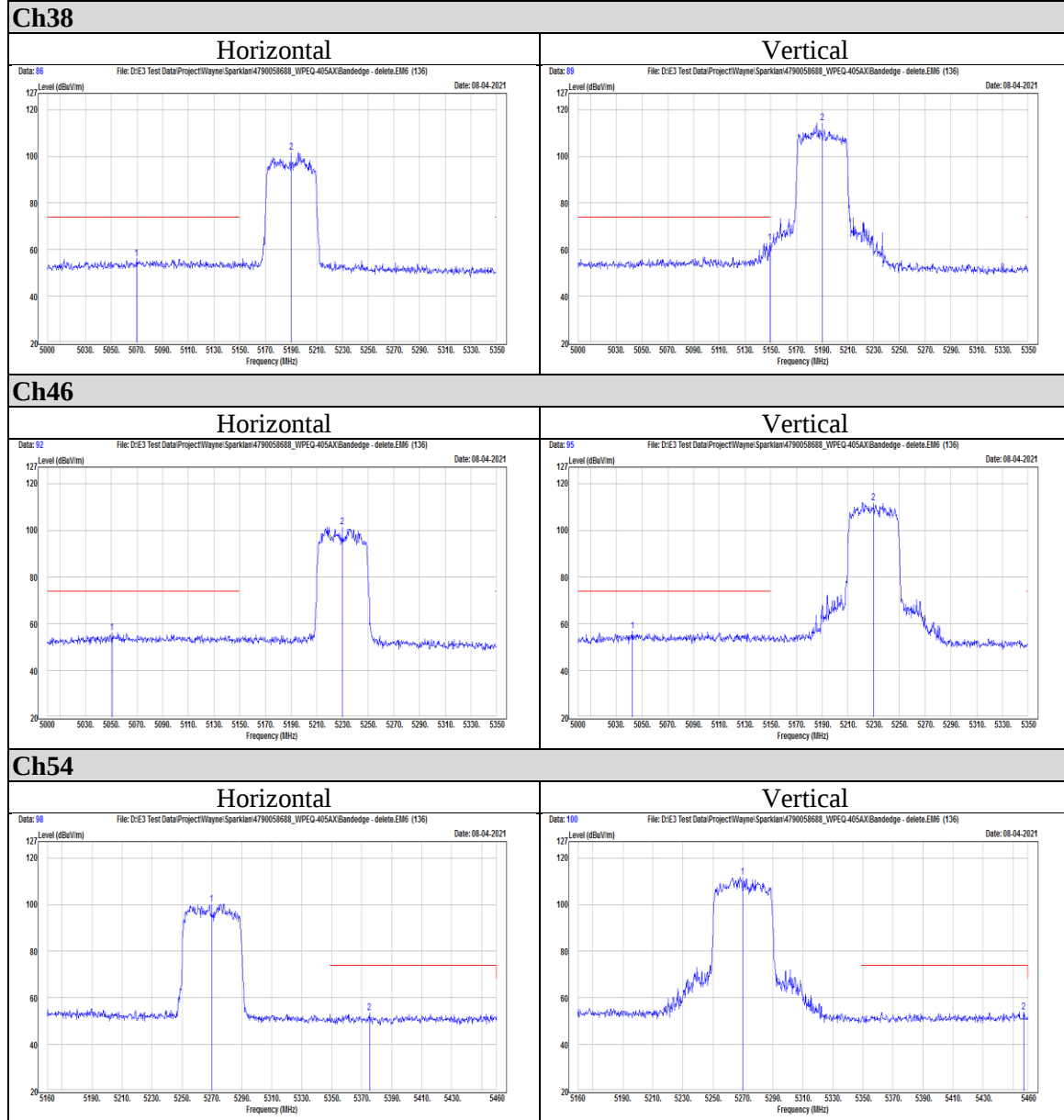
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802.11ax (HE40)

Peak



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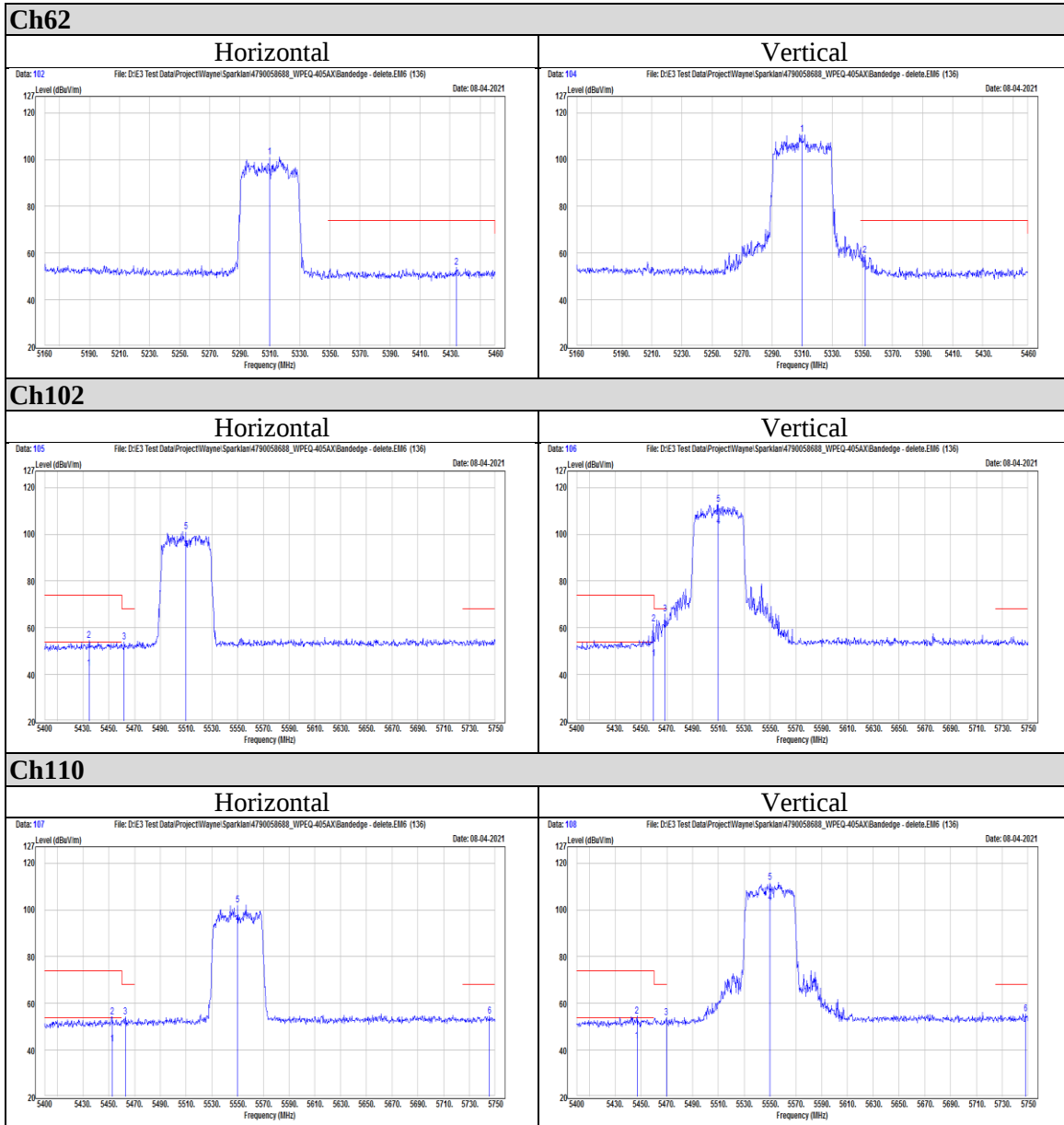
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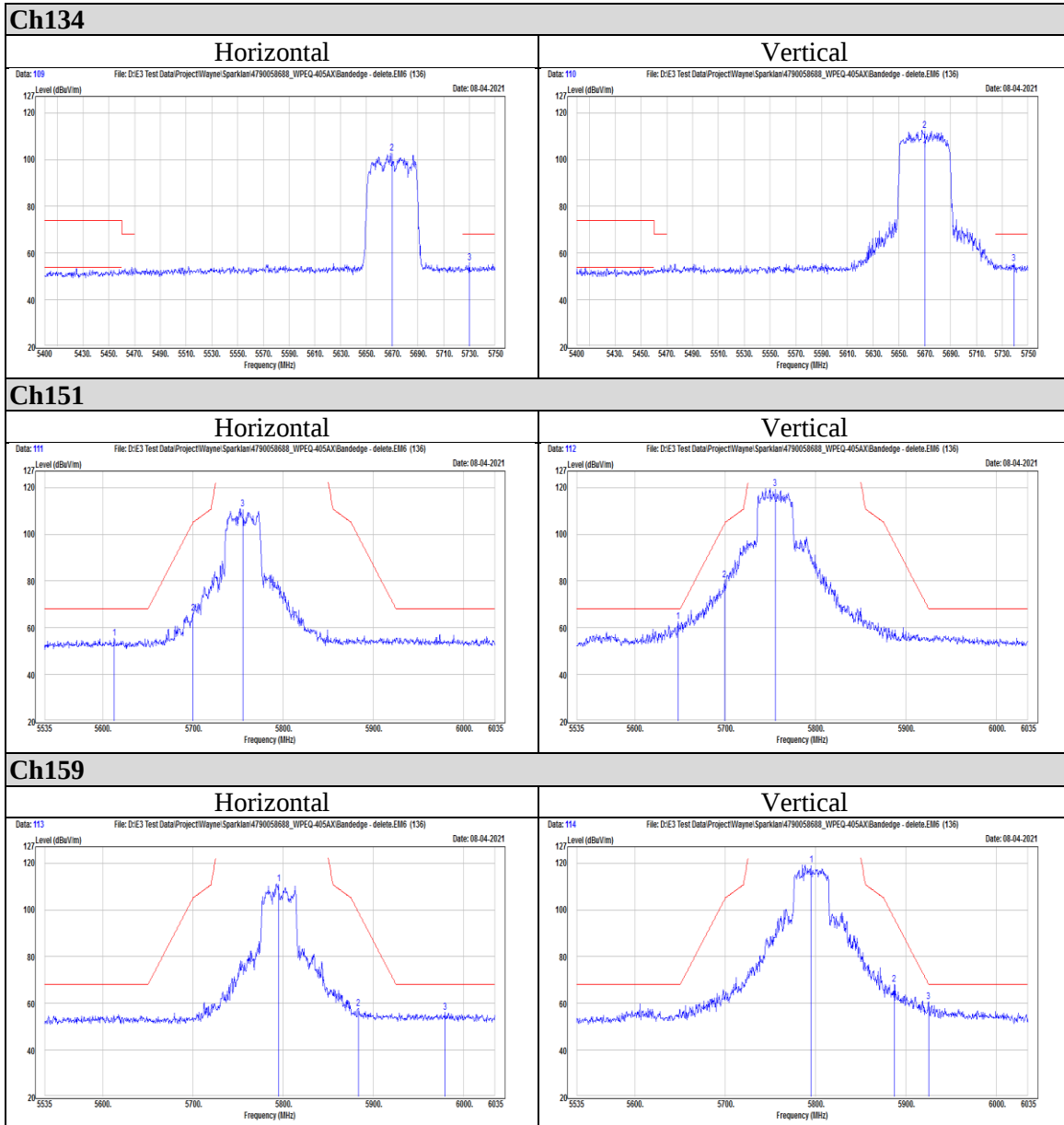
Telephone : +886-2-7737-3000

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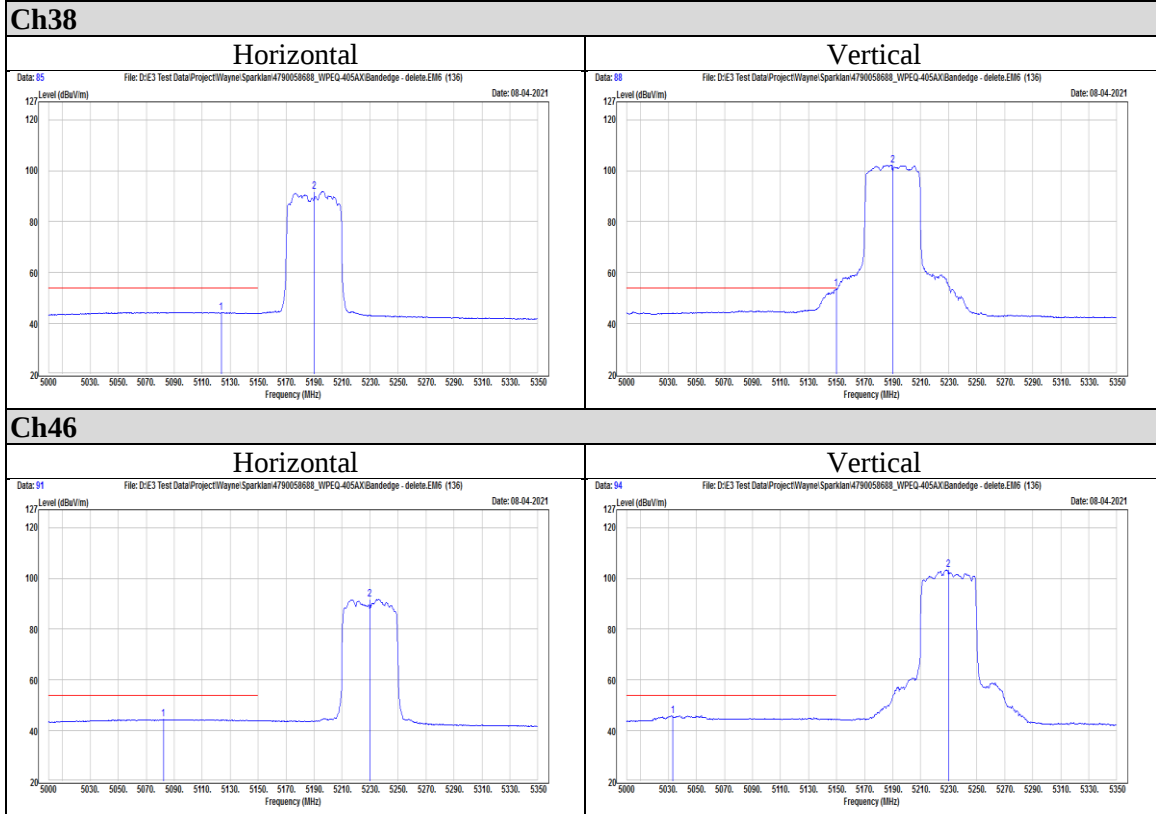
Telephone : +886-2-7737-3000

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Average



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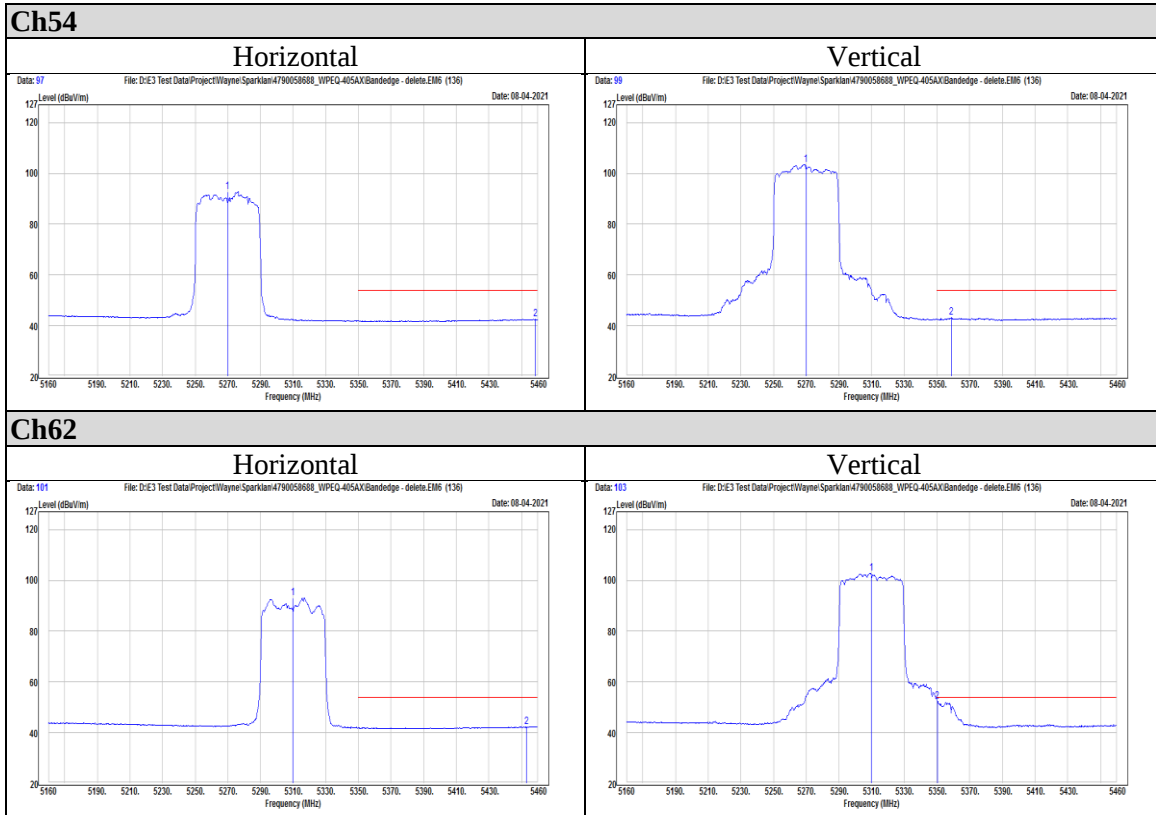
Telephone : +886-2-7737-3000

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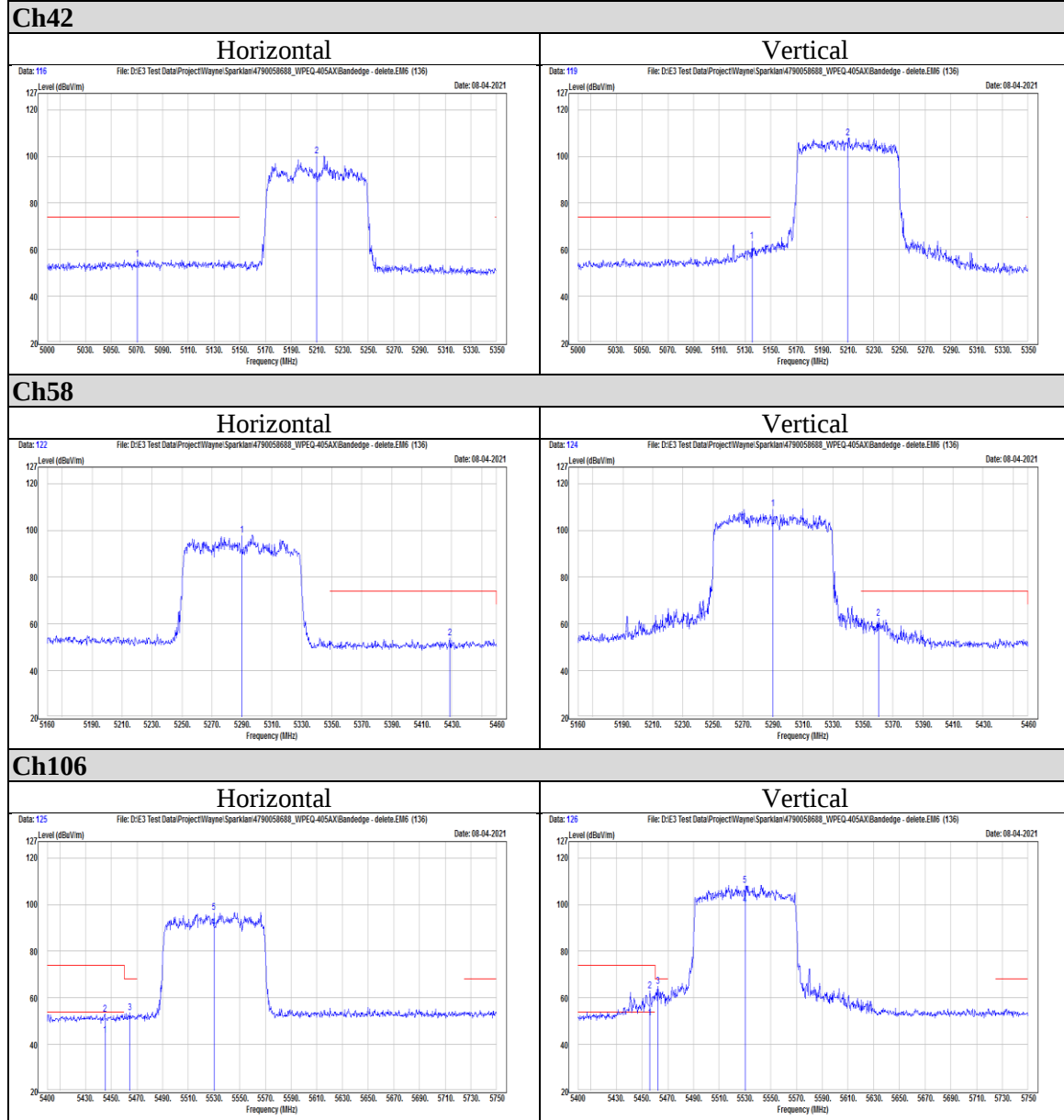
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802.11ax (HE80)

Peak



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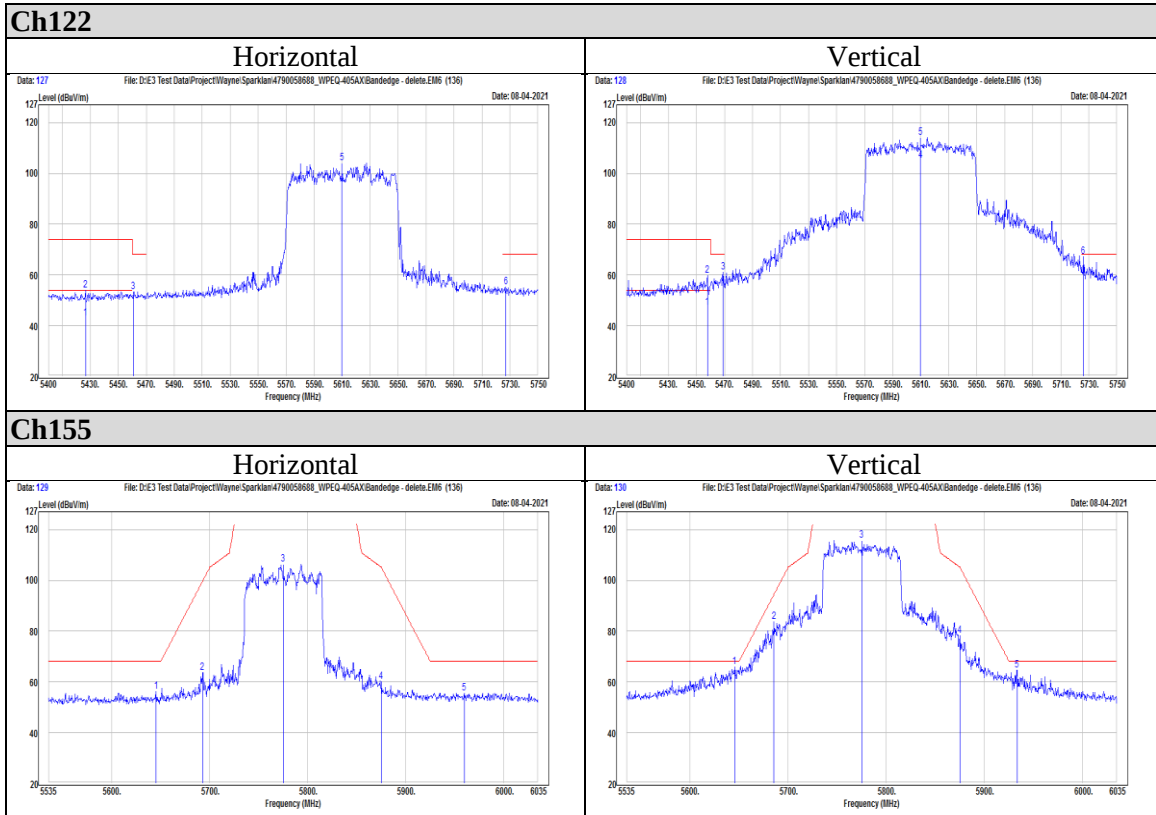
Telephone : +886-2-7737-3000

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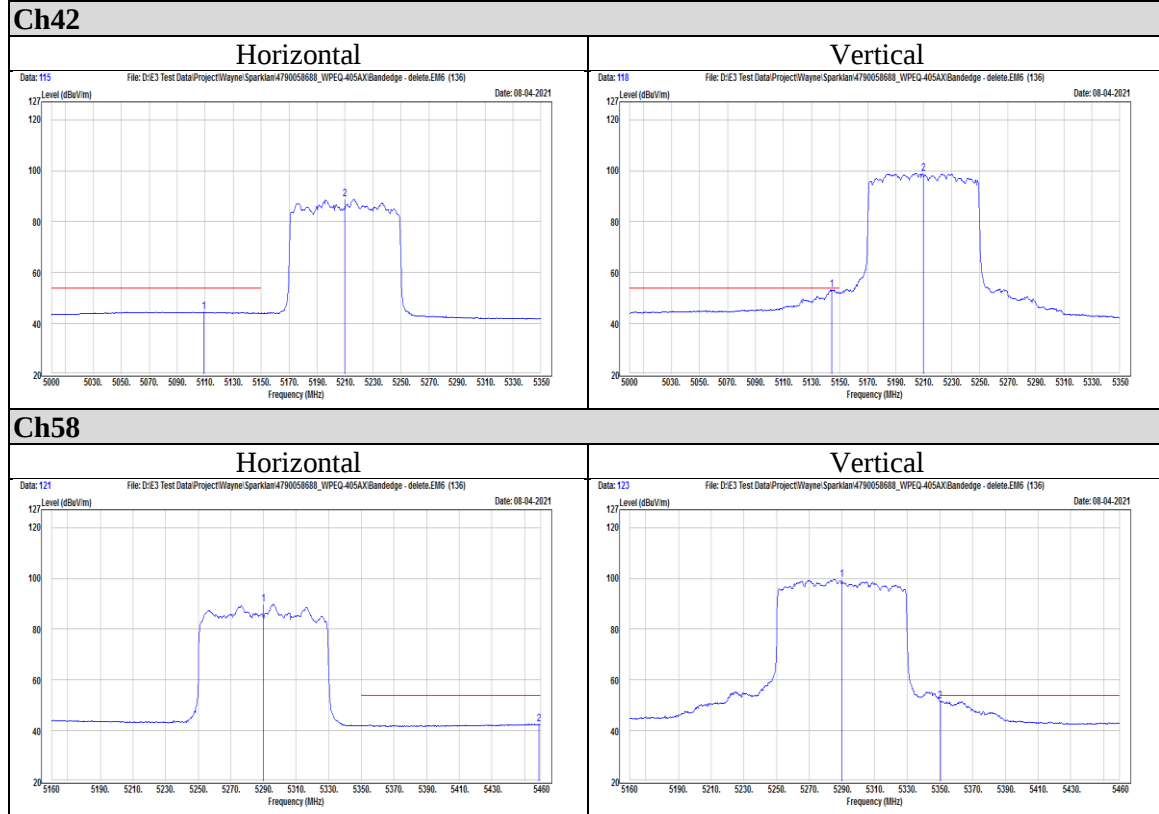
Telephone : +886-2-7737-3000

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

Doc No: 17-EM-F0878 / 6.0



Average



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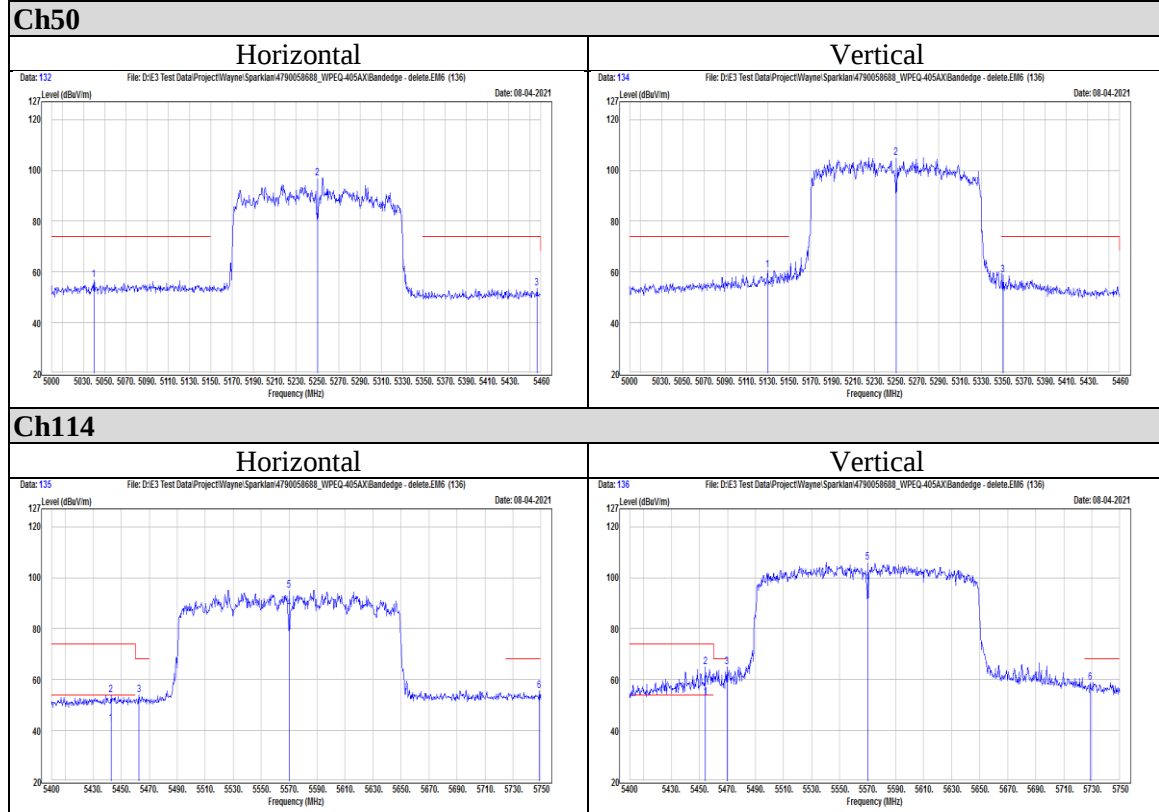
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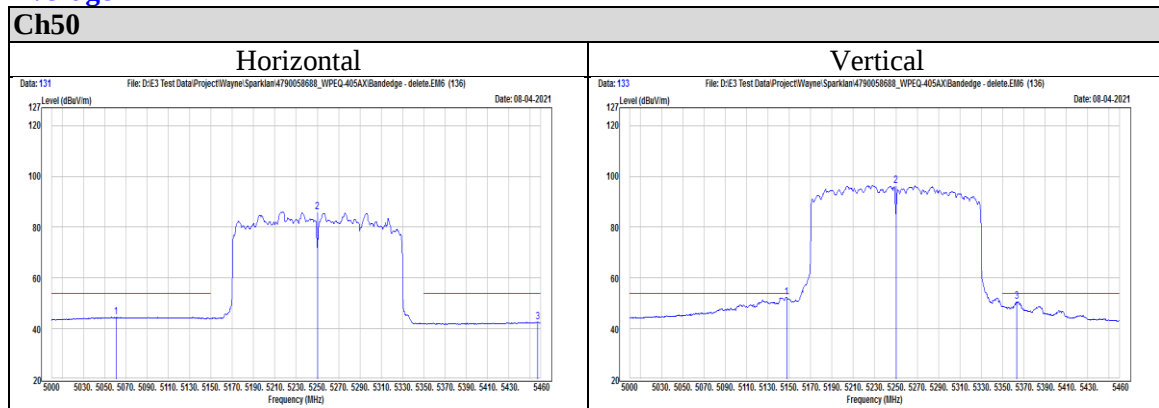


802.11ax (HE160)

Peak



Average



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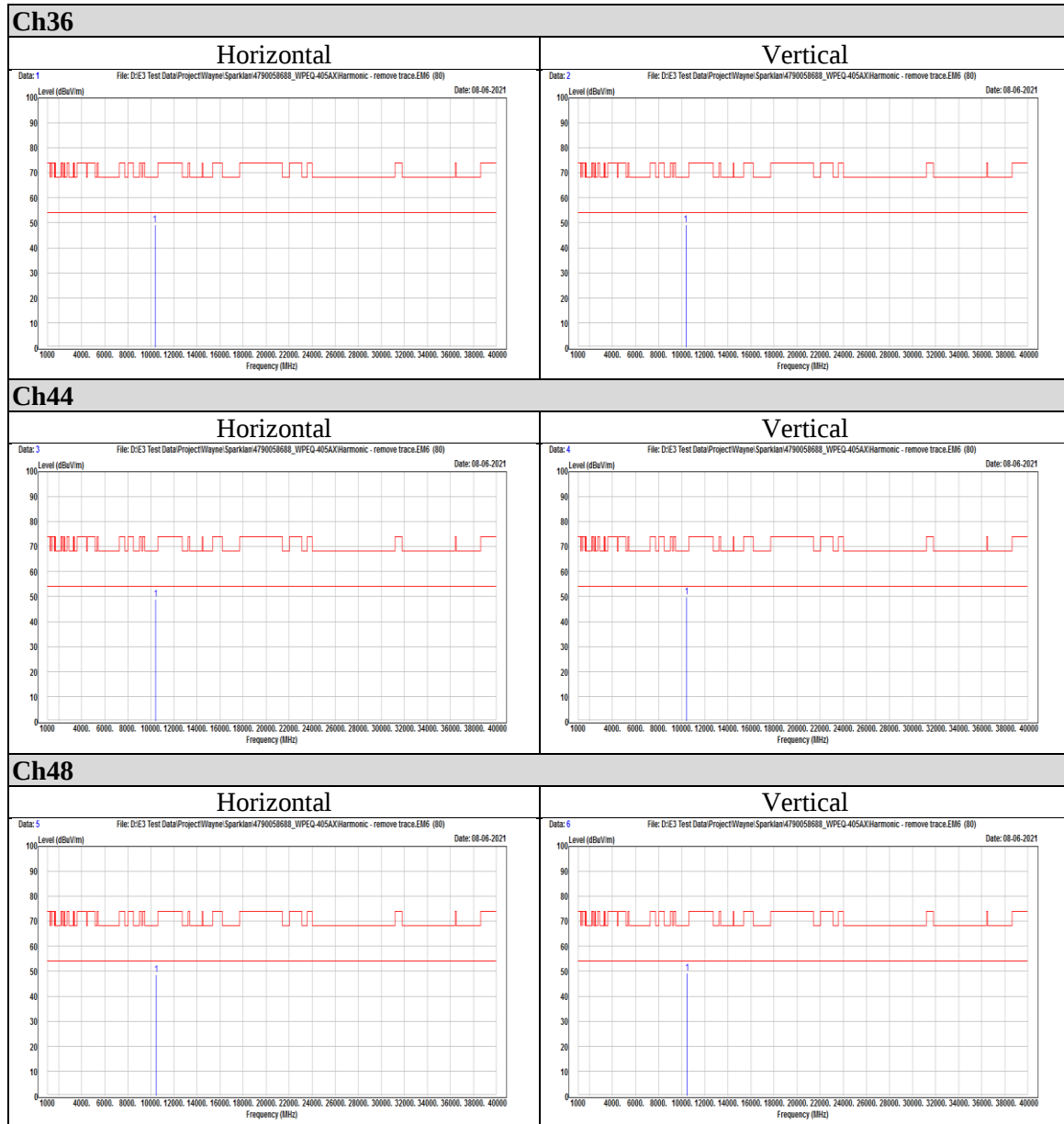
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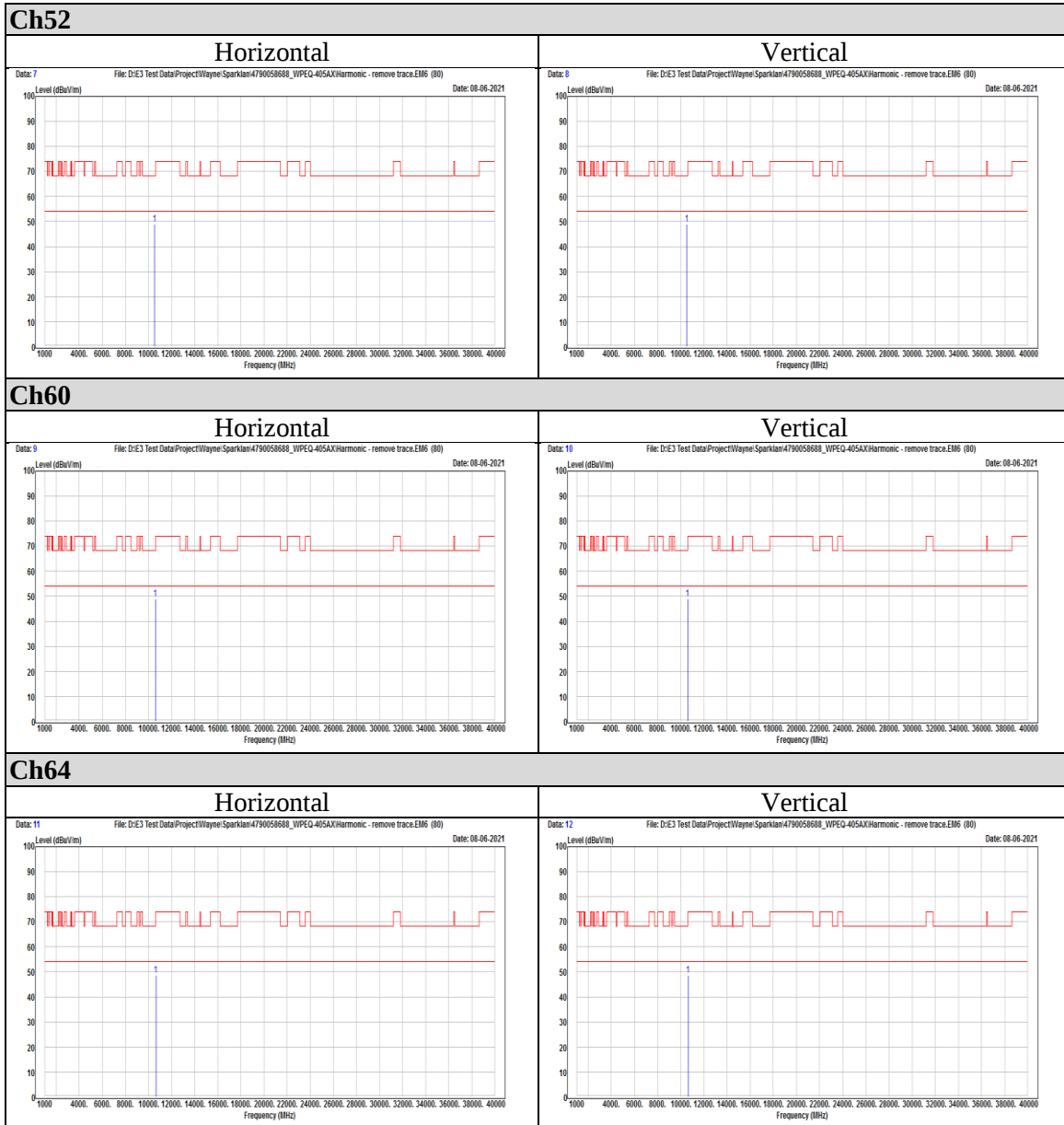
Appendix II Radiated Spurious Emission Measurement

802.11a





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FCC ID : RYK-WPEQ405AX



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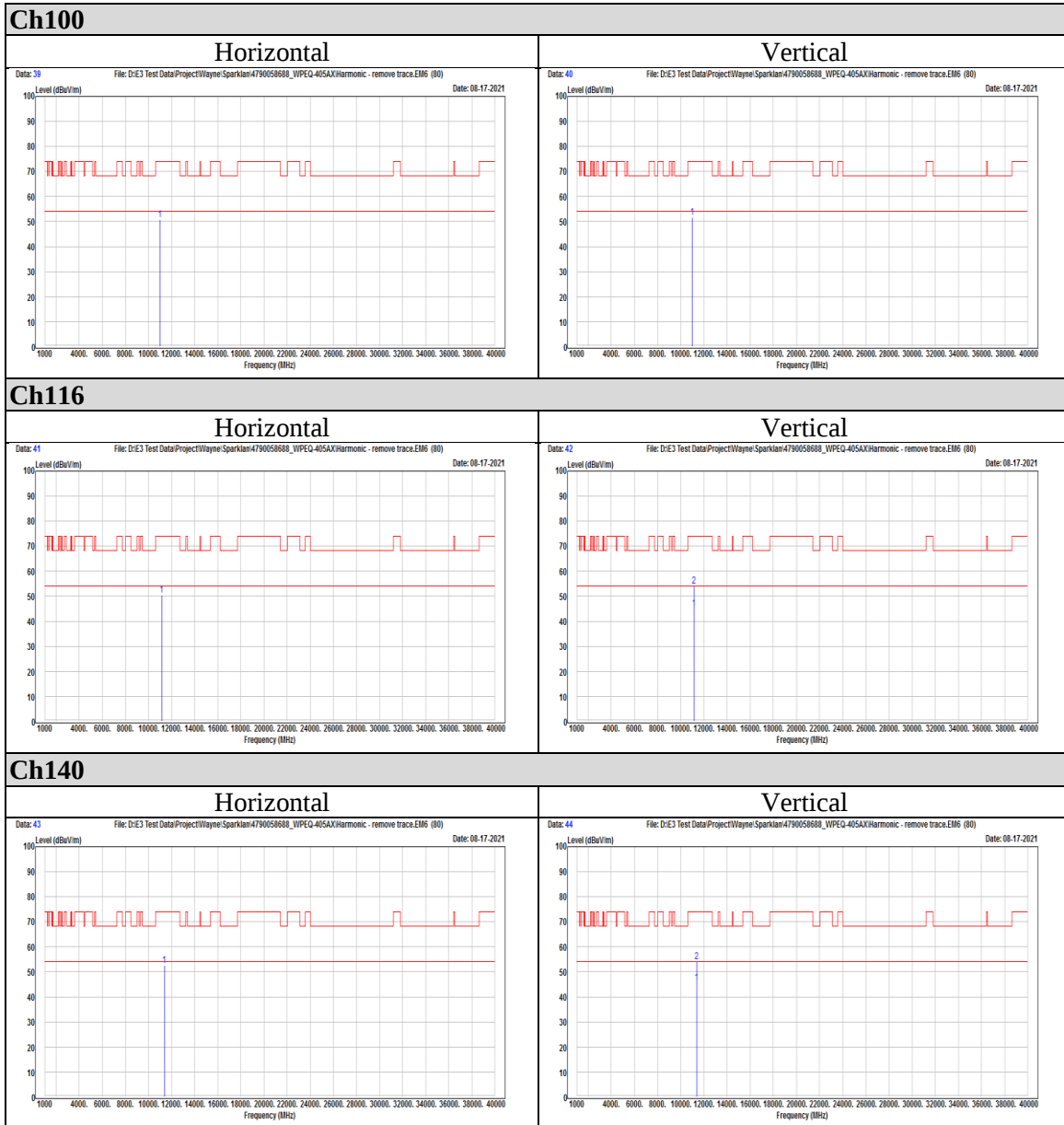
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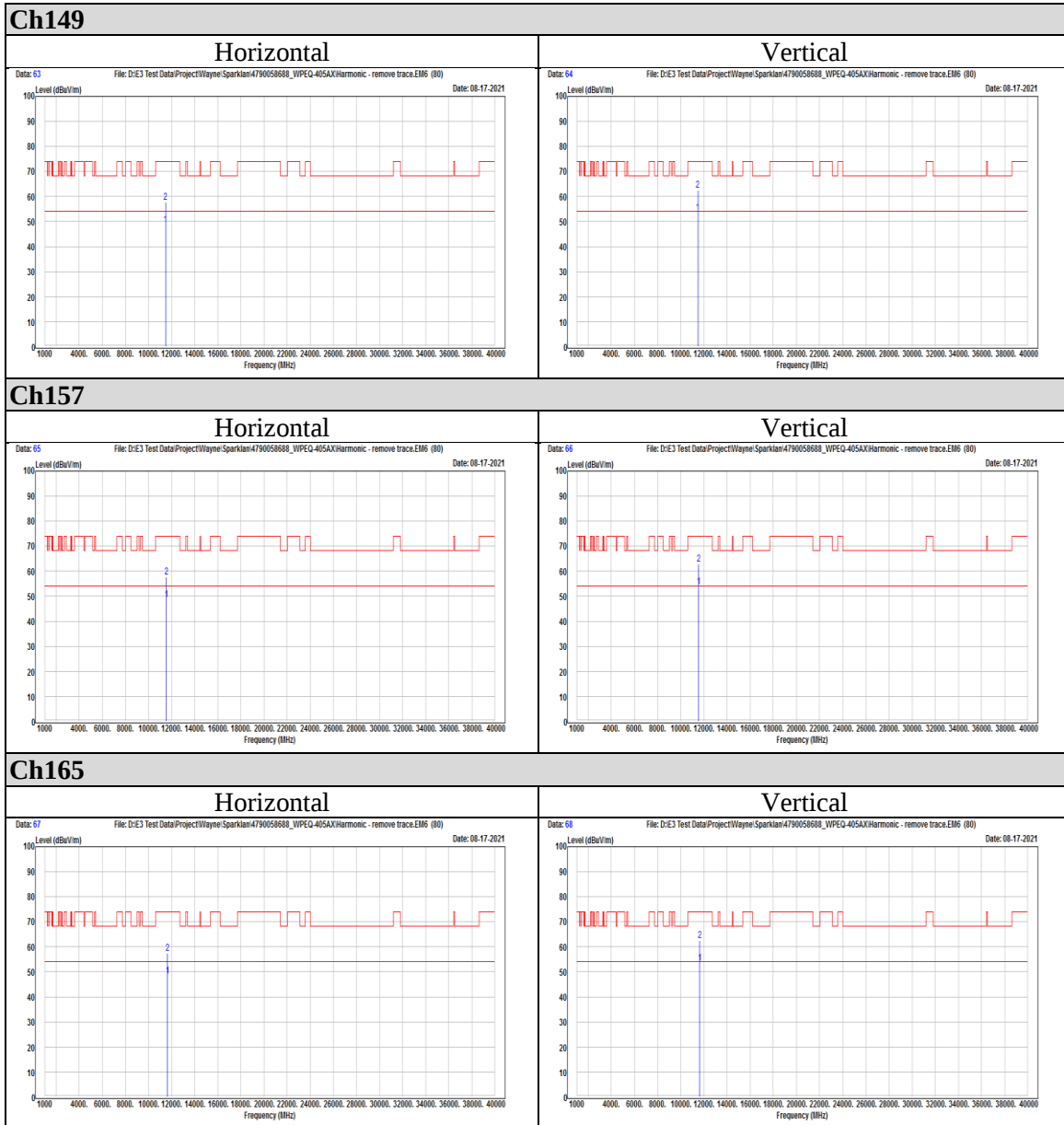
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Telephone : +886-2-7737-3000

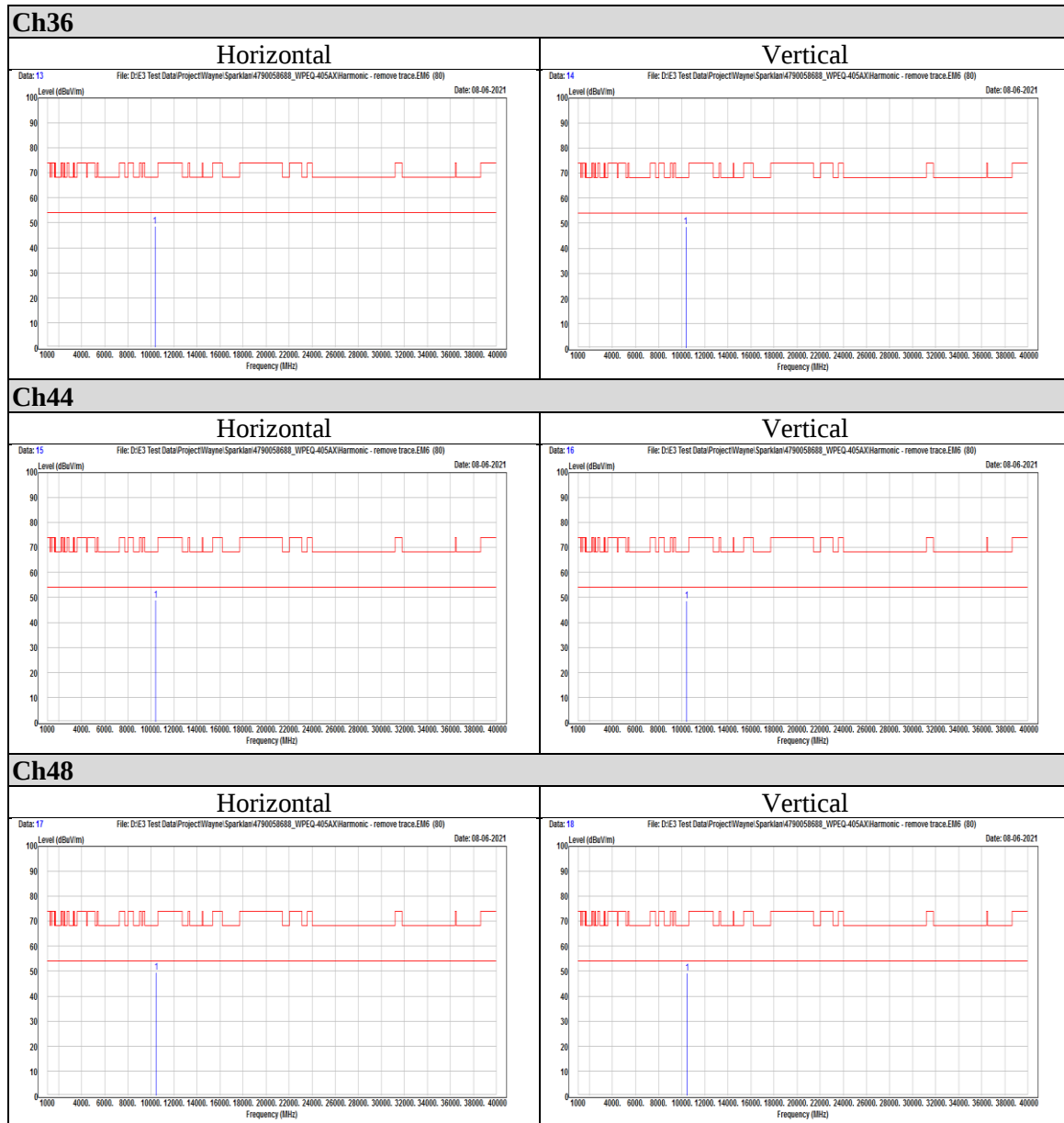
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Doc No: 17-EM-F0878 / 6.0



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802.11ax (HE20)



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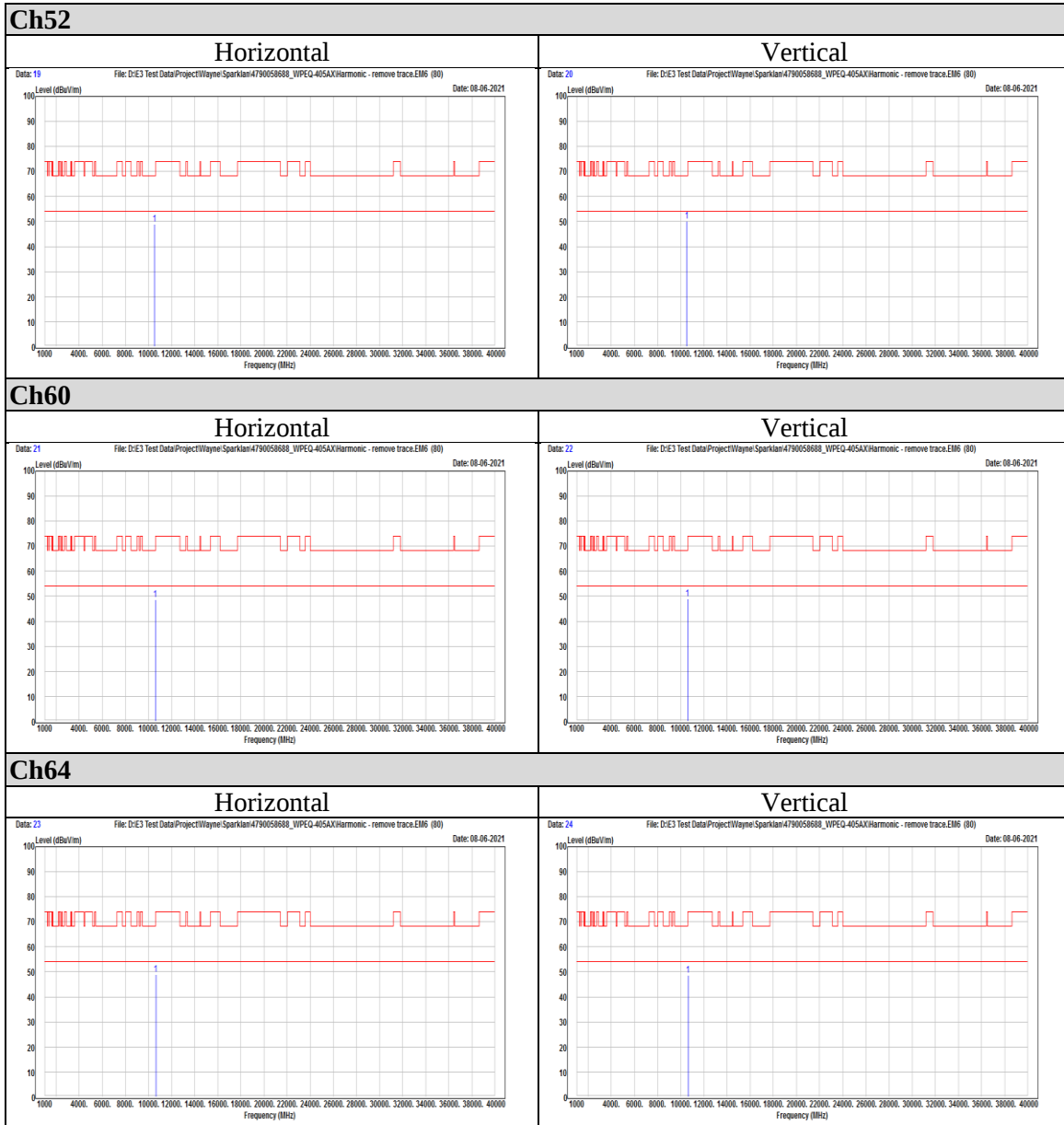
Telephone : +886-2-7737-3000

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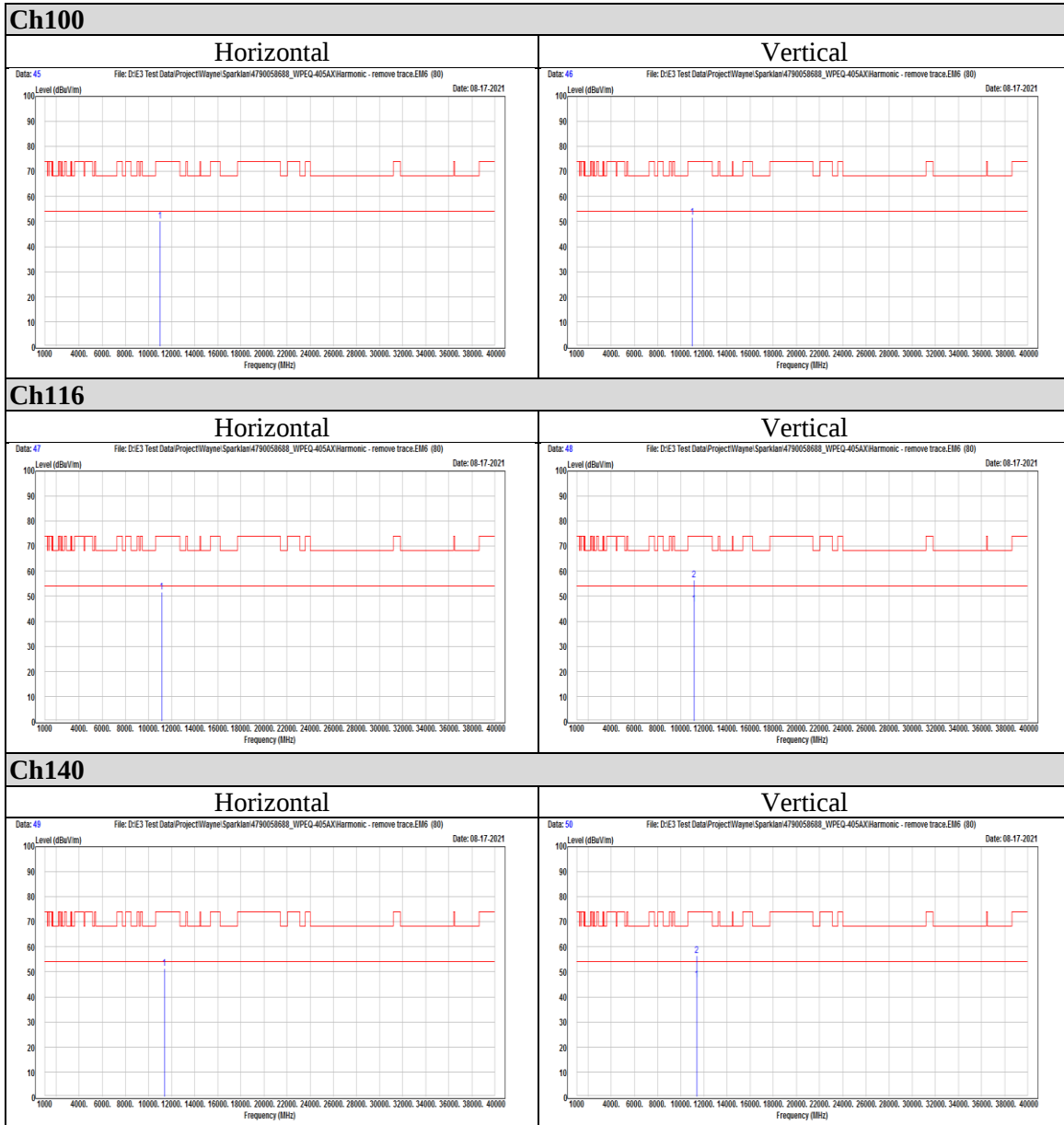
Telephone : +886-2-7737-3000

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

Doc No: 17-EM-F0878 / 6.0



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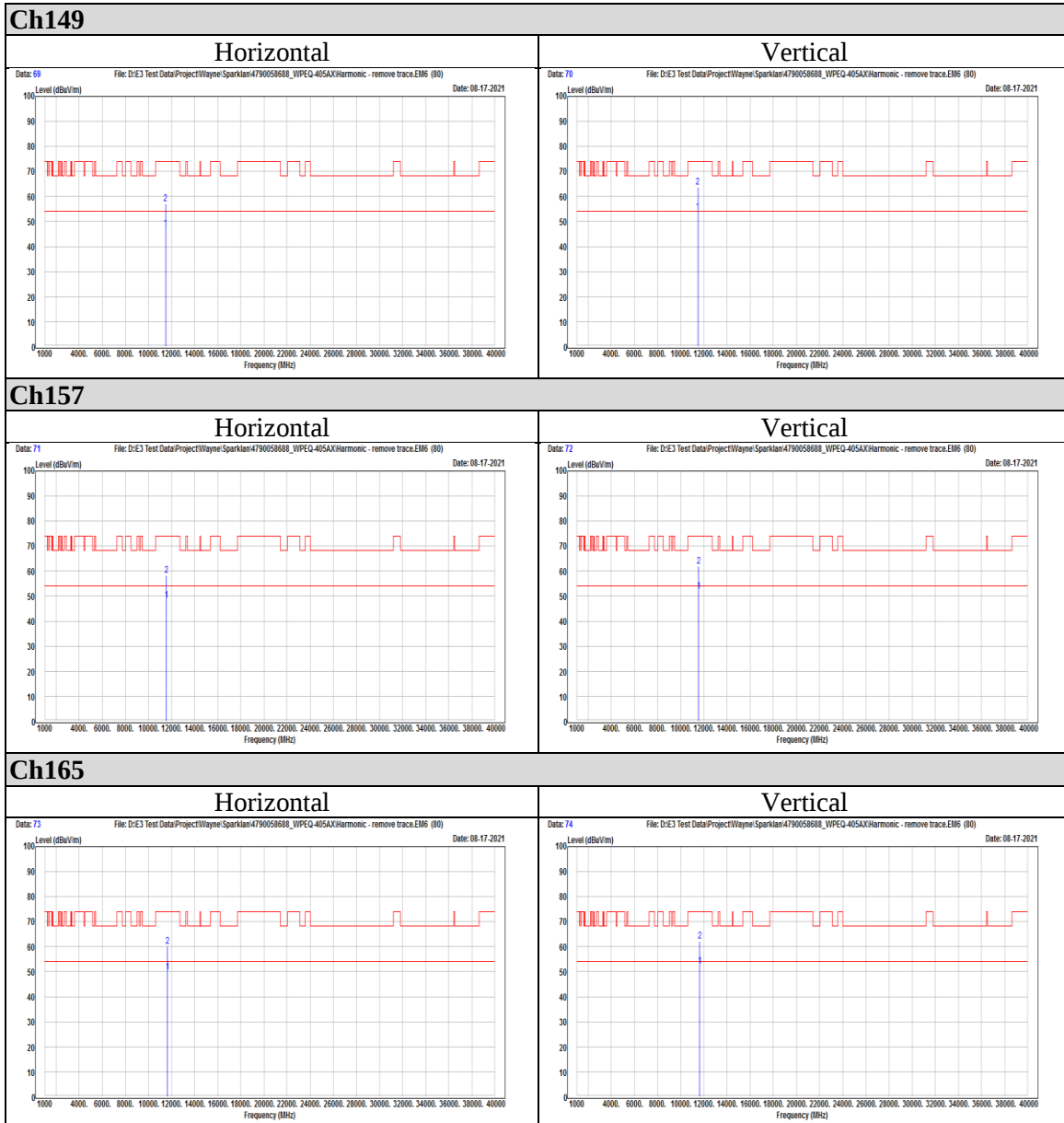
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Facsimile (FAX) : +886-3-583-7948

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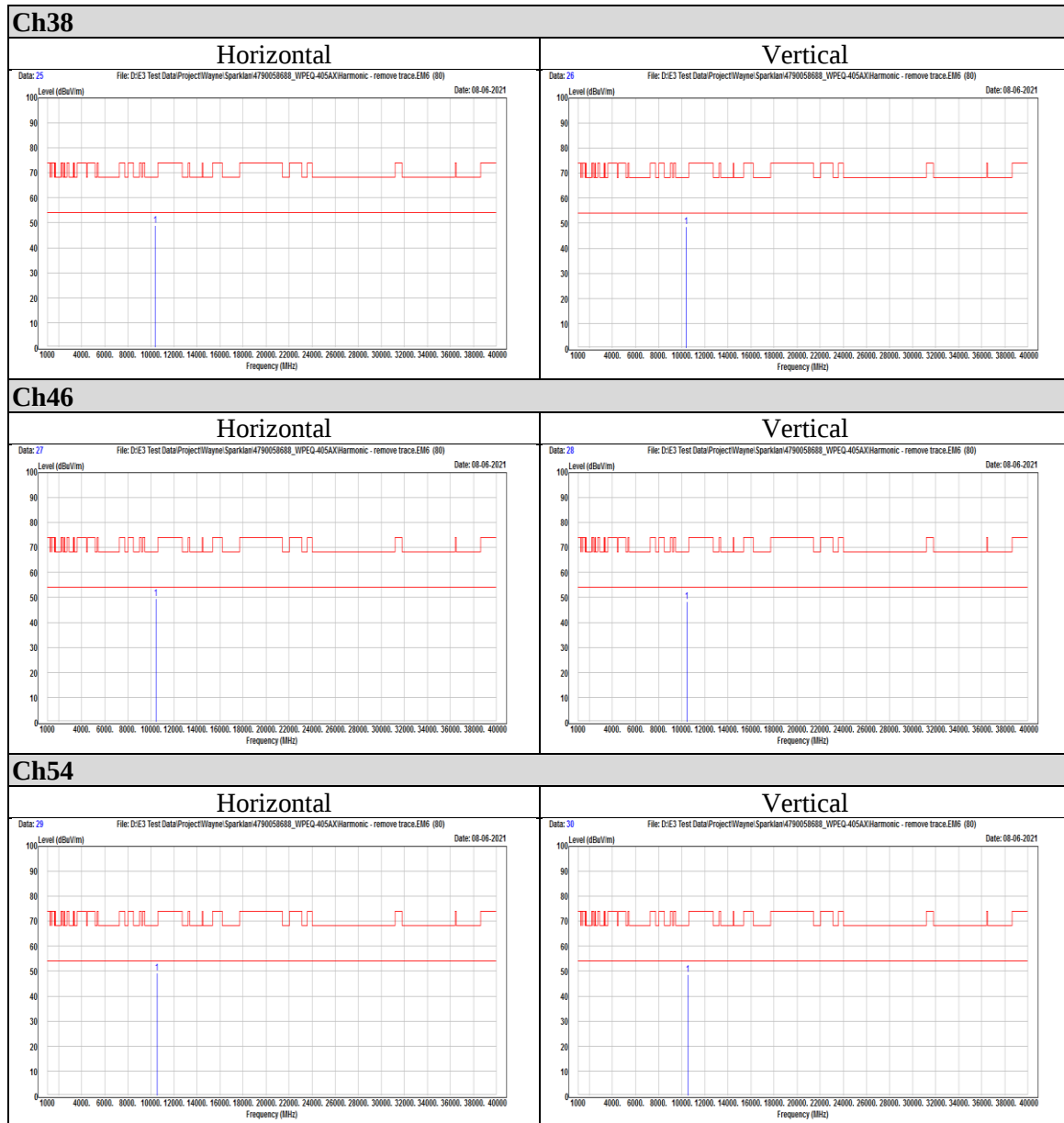
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Doc No: 17-EM-F0878 / 6.0



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802.11ax (HE40)



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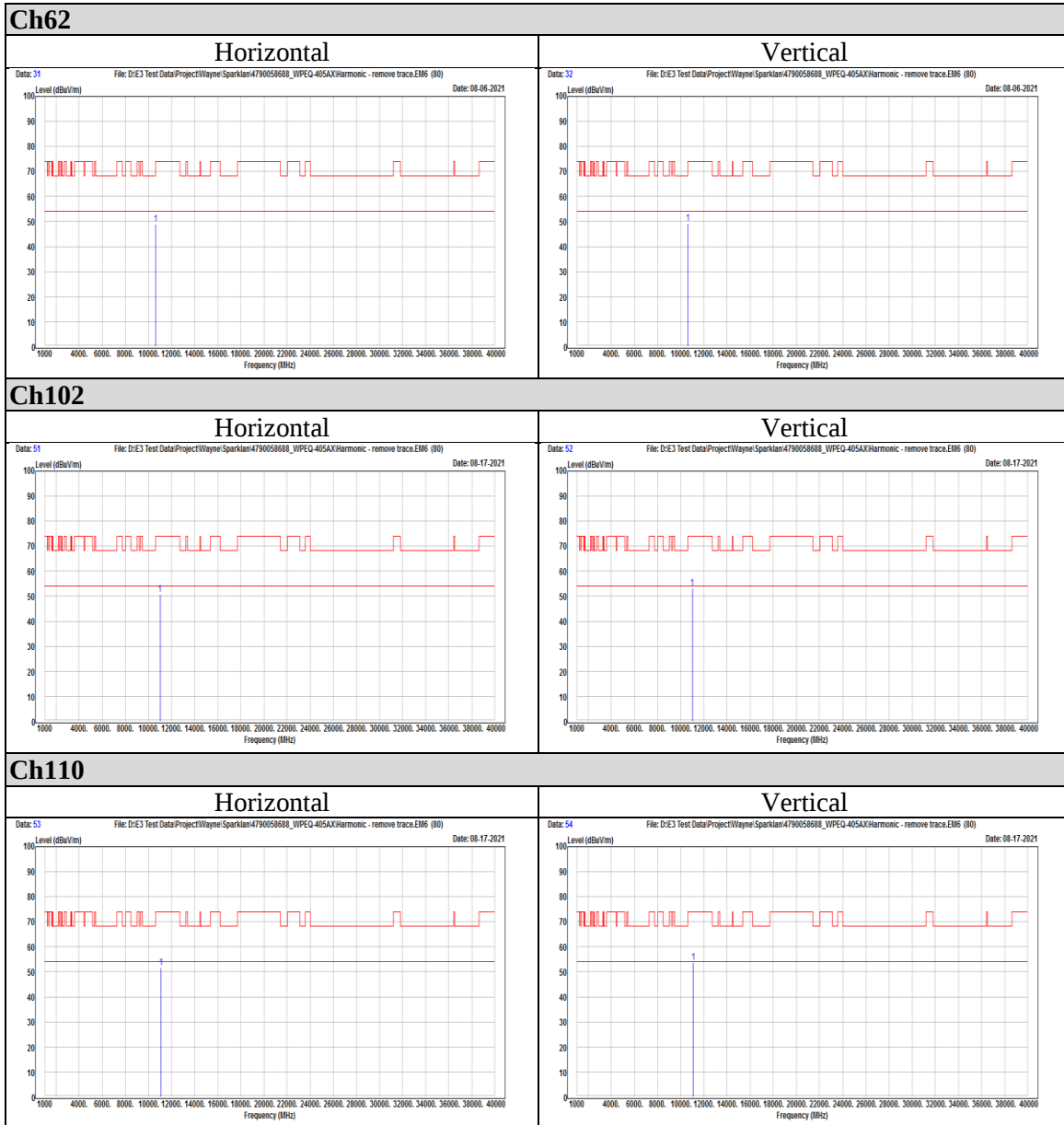
Telephone : +886-2-7737-3000

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

Doc No: 17-EM-F0878 / 6.0



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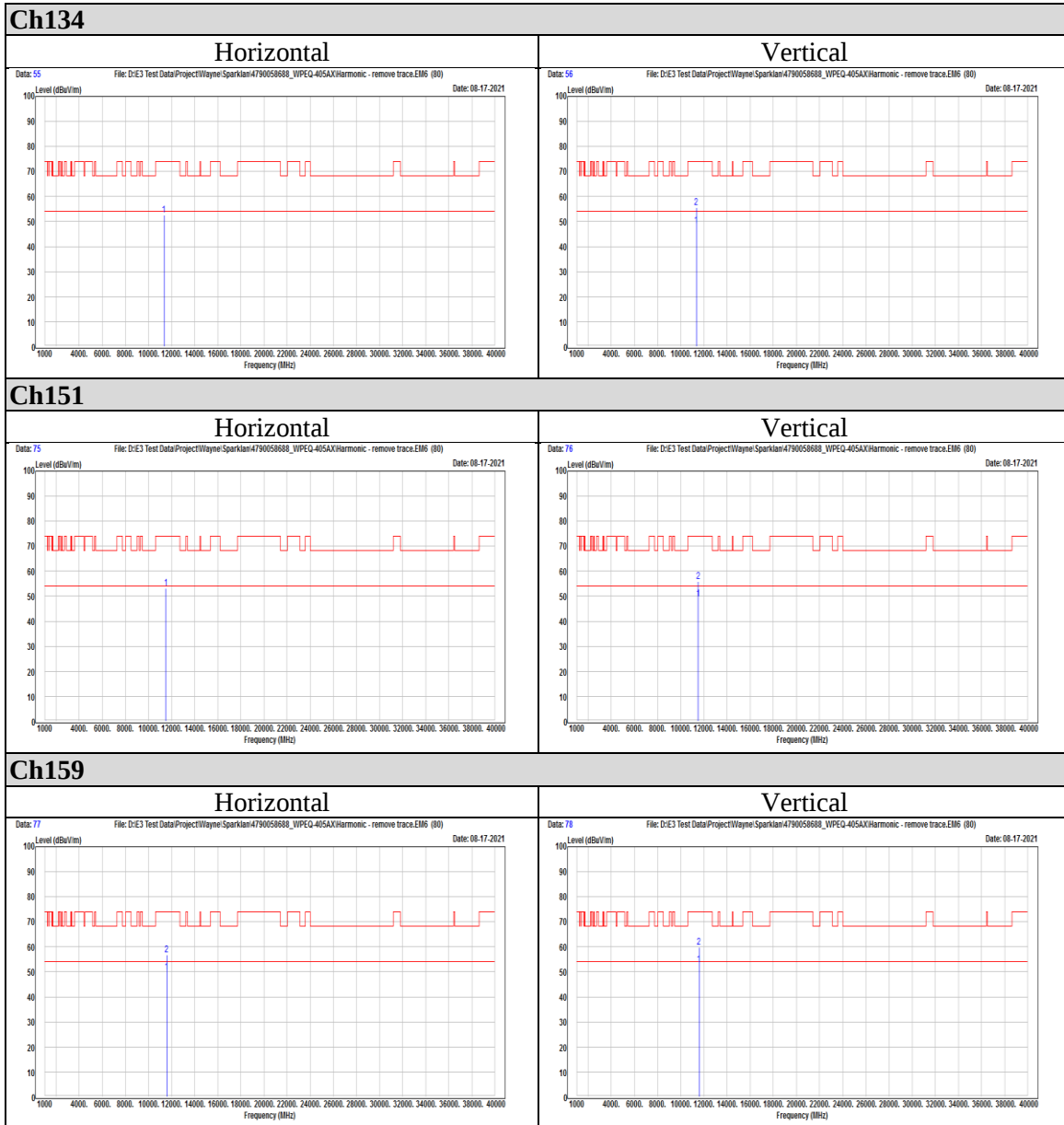
Telephone : +886-2-7737-3000

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

Doc No: 17-EM-F0878 / 6.0



Test report No. : 4790058688-US-R0-V0
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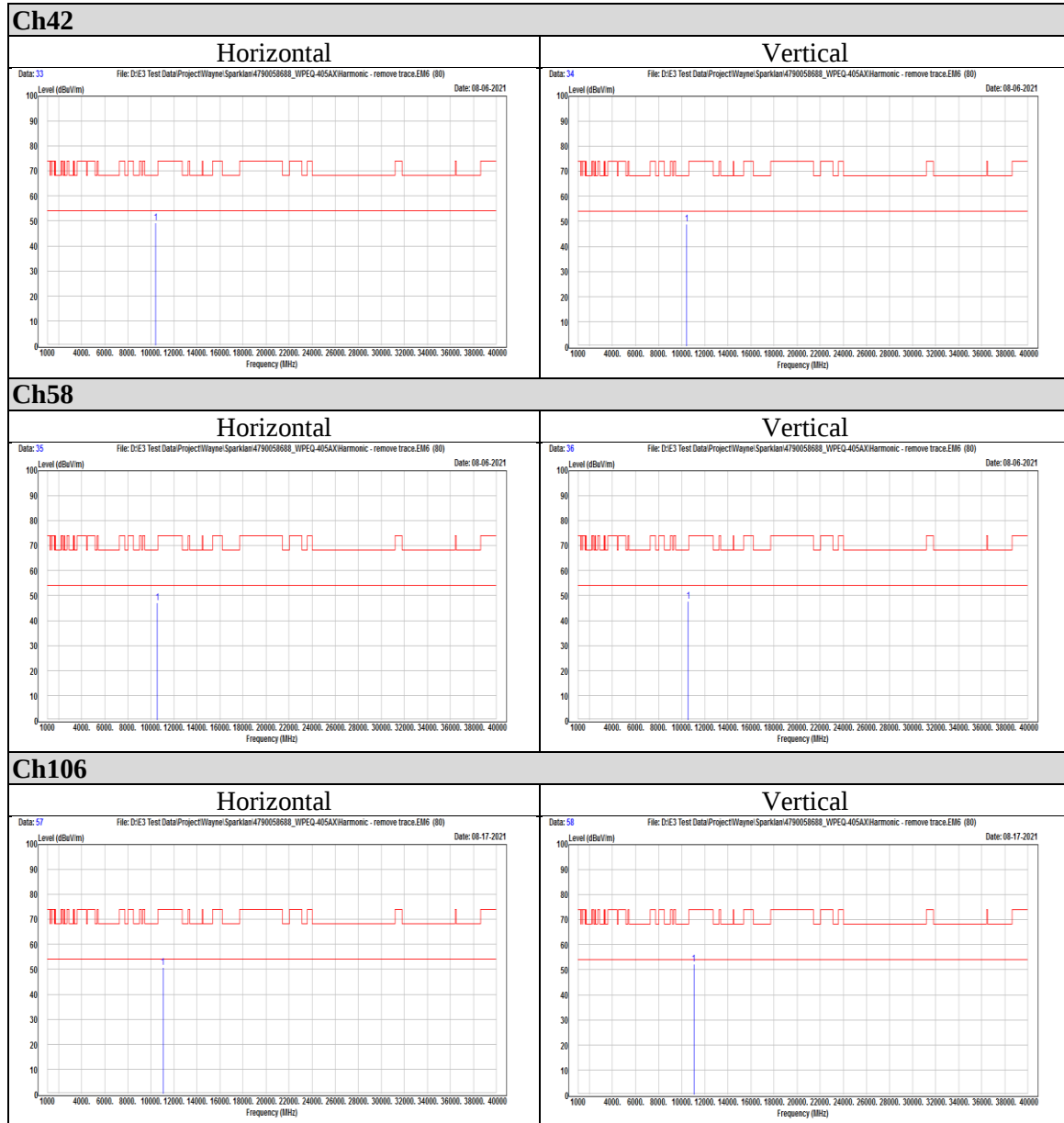
Telephone : +886-2-7737-3000

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802.11ax (HE80)



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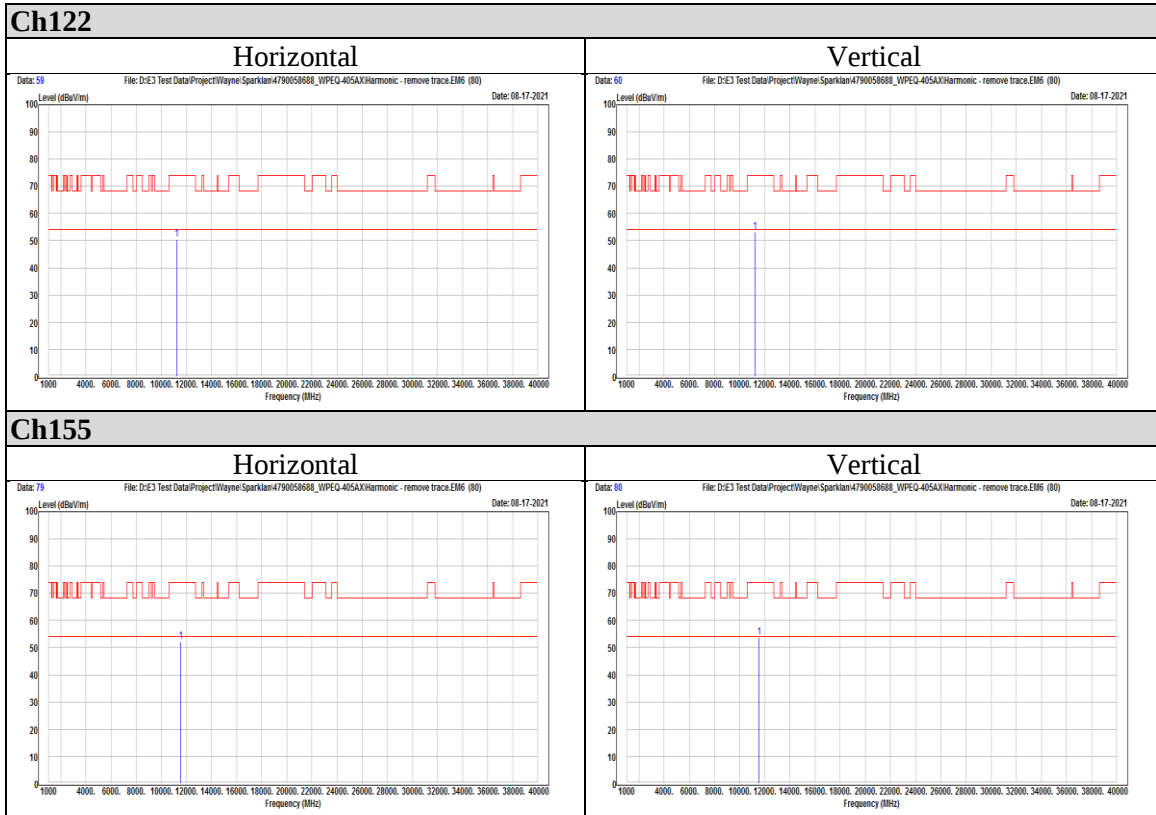
Telephone : +886-2-7737-3000

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

Doc No: 17-EM-F0878 / 6.0



Test report No. : 4790058688-US-R0-V0
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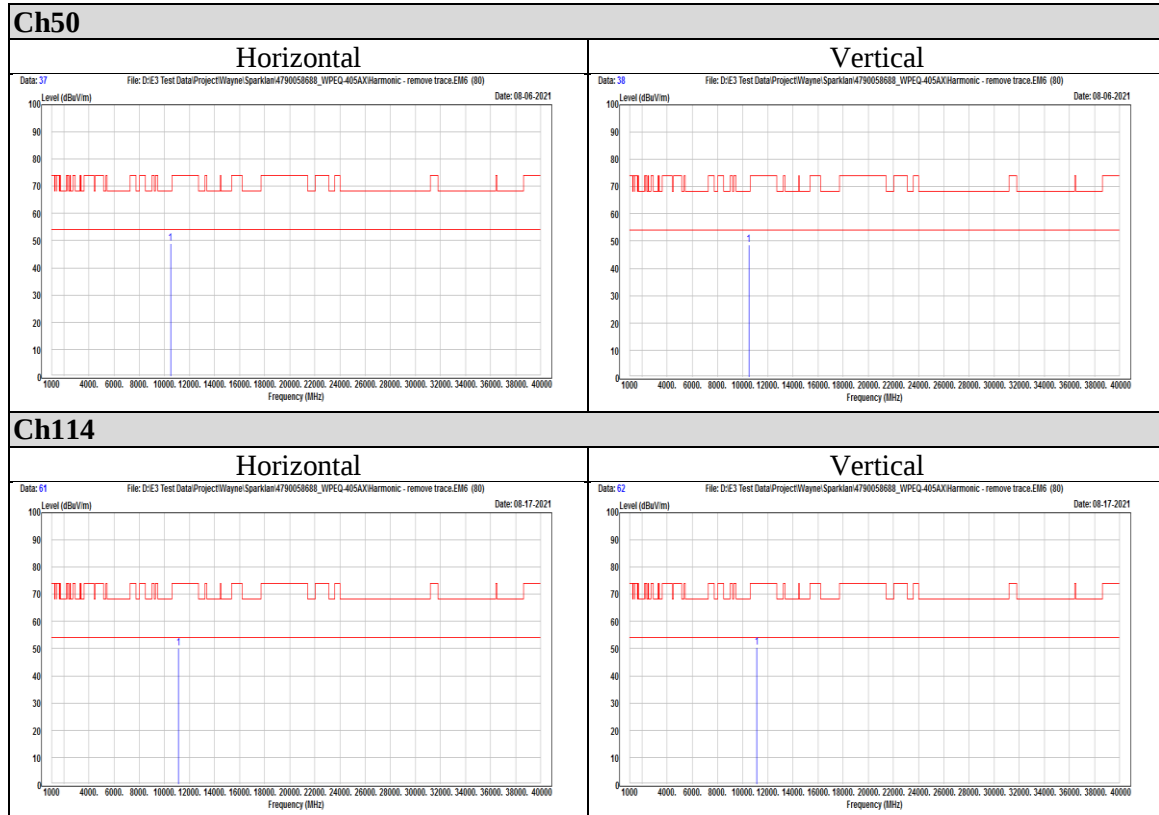
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FCC ID : RYK-WPEQ405AX

802.11ax (HE160)



END OF REPORT

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Doc No: 17-EM-F0878 / 6.0