



Test report No. : 4789431832-US-R0-V0
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Issued date : Jun. 17, 2020
FCC ID : 2AVP7-K3V1

802.11n (HT40)

EUT Test Condition		Measurement Detail	
Channel	Channel 3	Frequency Range	1 GHz ~ 26.5 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)	
-	2388	56.3	1.61	57.91	74	-16.09	Peak
@	2422	90.59	2.24	92.83	-	-	Peak
-	2389.8	37.96	1.65	39.61	54	-14.39	Average
@	2422	81.29	2.24	83.53	-	-	Average
*	4844	38.06	-0.61	37.45	74	-36.55	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)	
-	2382.8	54.6	1.5	56.1	74	-17.9	Peak
@	2422	90.13	2.24	92.37	-	-	Peak
-	2389.2	38.16	1.64	39.8	54	-14.2	Average
@	2422	80.81	2.24	83.05	-	-	Average
*	4844	38.3	-0.61	37.69	74	-36.31	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 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 6	Frequency Range	1 GHz ~ 26.5 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)	
-	2361.2	57.43	1.04	58.47	74	-15.53	Peak
@	2437	96.22	2.5	98.72	-	-	Peak
-	2483.6	59.22	3.4	62.62	74	-11.38	Peak
-	2389.6	39.22	1.65	40.87	54	-13.13	Average
@	2437	88.11	2.5	90.61	-	-	Average
-	2484	39.95	3.41	43.36	54	-10.64	Average
*	4874	42.25	-0.58	41.67	74	-32.33	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)	
-	2389.2	55.58	1.64	57.22	74	-16.78	Peak
@	2437	95.92	2.5	98.42	-	-	Peak
-	2499.2	57.73	3.72	61.45	74	-12.55	Peak
-	2390	39.37	1.66	41.03	54	-12.97	Average
@	2437	87.59	2.5	90.09	-	-	Average
-	2485	39.4	3.43	42.83	54	-11.17	Average
*	4874	43.84	-0.58	43.26	74	-30.74	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).
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5. "*": The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
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EUT Test Condition		Measurement Detail	
Channel	Channel 9	Frequency Range	1 GHz ~ 26.5 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)	
@	2452	90.24	2.76	93	-	-	Peak
-	2486.6	56.72	3.47	60.19	74	-13.81	Peak
@	2452	81.13	2.76	83.89	-	-	Average
-	2500	39.22	3.74	42.96	54	-11.04	Average
*	4904	38.42	-0.56	37.86	74	-36.14	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)	
@	2452	89.73	2.76	92.49	-	-	Peak
-	2485	58.06	3.43	61.49	74	-12.51	Peak
@	2452	80.81	2.76	83.57	-	-	Average
-	2494.4	38.96	3.62	42.58	54	-11.42	Average
*	4904	38.69	-0.56	38.13	74	-35.87	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 complies with AVG limit, AVG result is deemed to comply with AVG limit.
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EUT Test Condition		Measurement Detail	
Channel	Channel 10	Frequency Range	1 GHz ~ 26.5 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)	
@	2457	90.52	2.87	93.39	-	-	Peak
-	2485.2	58.26	3.44	61.7	74	-12.3	Peak
@	2457	82.29	2.87	85.16	-	-	Average
-	2483.6	40.82	3.4	44.22	54	-9.78	Average
*	4914	38.46	-0.56	37.9	74	-36.1	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)	
@	2457	90.18	2.87	93.05	-	-	Peak
-	2484.8	59.53	3.43	62.96	74	-11.04	Peak
@	2457	82.08	2.87	84.95	-	-	Average
-	2483.6	40.95	3.4	44.35	54	-9.65	Average
*	4914	39.78	-0.56	39.22	74	-34.78	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 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 11	Frequency Range	1 GHz ~ 26.5 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)	
@	2462	83.6	2.97	86.57	-	-	Peak
-	2484.2	57.39	3.41	60.8	74	-13.2	Peak
@	2462	73.52	2.97	76.49	-	-	Average
-	2483.6	40.66	3.4	44.06	54	-9.94	Average
*	4924	39.54	-0.55	38.99	74	-35.01	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)	
@	2462	81.29	2.97	84.26	-	-	Peak
-	2483.8	57.33	3.41	60.74	74	-13.26	Peak
@	2462	73.06	2.97	76.03	-	-	Average
-	2483.6	39.73	3.4	43.13	54	-10.87	Average
*	4924	38.34	-0.55	37.79	74	-36.21	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 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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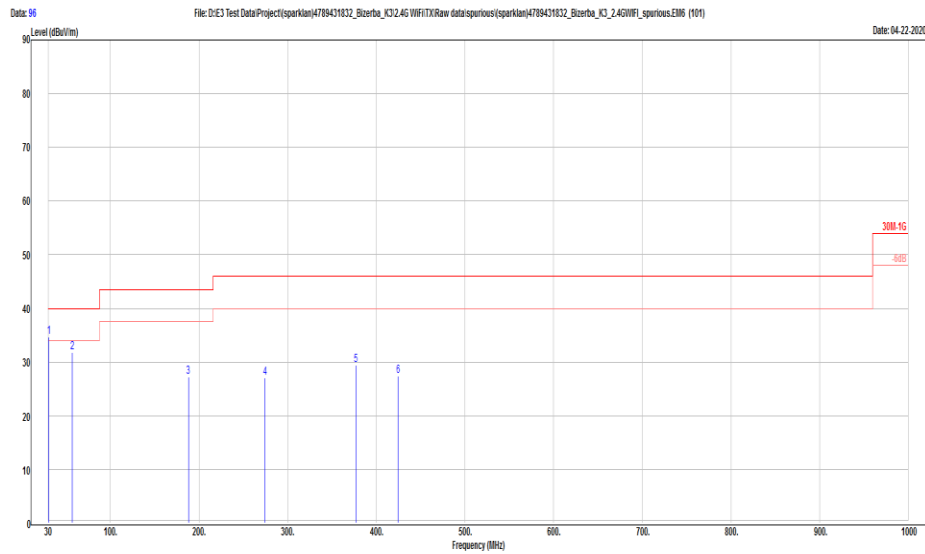


30 MHz ~ 1 GHz Data

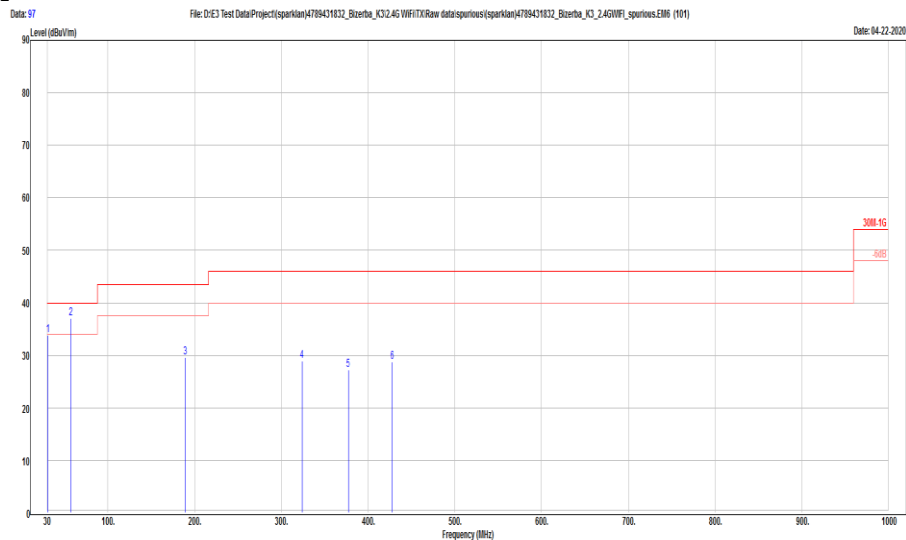
802.11g

EUT Test Condition		Measurement Detail	
Channel	Channel 11	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)	
-	30.97	50.94	-16.32	34.62	40	-5.38	Peak
-	57.16	46.83	-15.1	31.73	40	-8.27	Peak
-	188.11	43.4	-16.11	27.29	43.5	-16.21	Peak
-	274.44	41.57	-14.42	27.15	46	-18.85	Peak
-	377.26	41.2	-11.69	29.51	46	-16.49	Peak
-	424.79	37.82	-10.45	27.37	46	-18.63	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)	
-	30.97	50.23	-16.32	33.91	40	-6.09	Peak
-	57.16	52.22	-15.1	37.12	40	-2.88	Peak
-	189.08	45.74	-16.13	29.61	43.5	-13.89	Peak
-	323.91	42.1	-13.14	28.96	46	-17.04	Peak
-	377.26	38.91	-11.69	27.22	46	-18.78	Peak
-	427.7	39.12	-10.43	28.69	46	-17.31	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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9.6. AC Power Line Conducted Emission

Requirements

Frequency (MHz)	Conducted limit (dBμV)	
	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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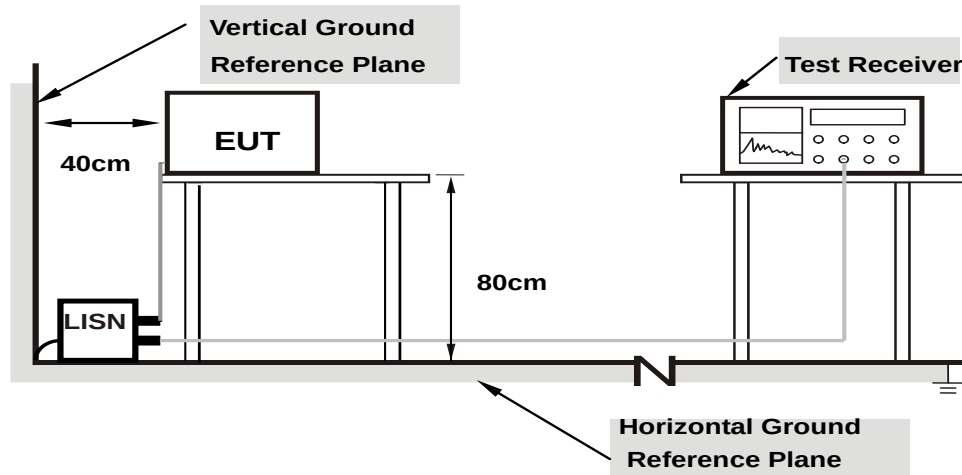
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Test Setup



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

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

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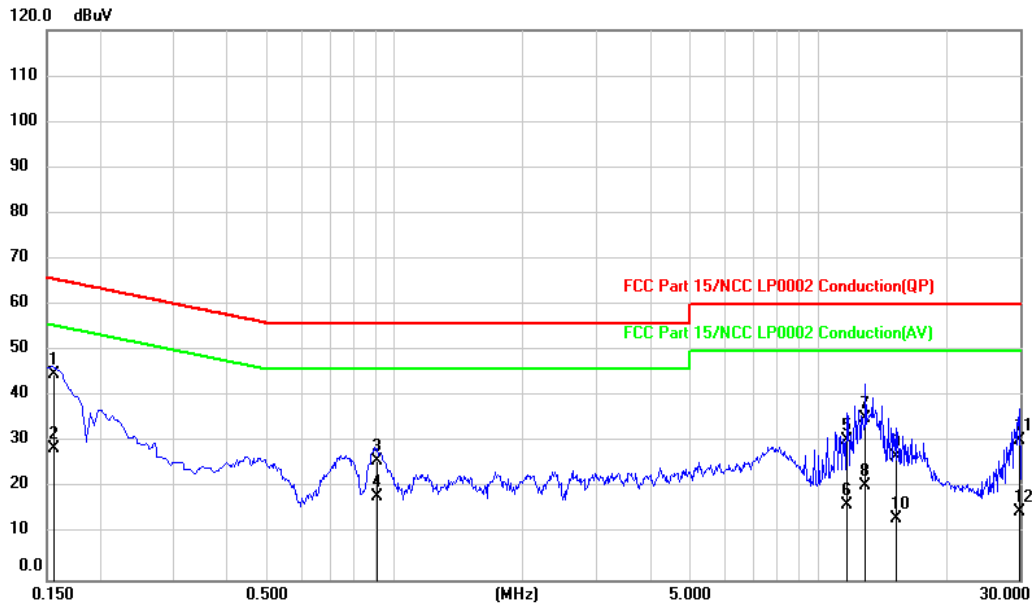


Test Data

802.11g

EUT Test Condition		Measurement Detail	
Channel	Channel 11	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	0.1561	25.41	19.47	44.88	65.67	-20.79	QP
2	0.1561	9.30	19.47	28.77	55.67	-26.90	AVG
3	0.9090	6.58	19.50	26.08	56.00	-29.92	QP
4	0.9090	-1.38	19.50	18.12	46.00	-27.88	AVG
5	11.7383	10.72	19.70	30.42	60.00	-29.58	QP
6	11.7383	-3.47	19.70	16.23	50.00	-33.77	AVG
7	12.9440	15.54	19.71	35.25	60.00	-24.75	QP
8	12.9440	0.74	19.71	20.45	50.00	-29.55	AVG
9	15.3599	7.22	19.73	26.95	60.00	-33.05	QP
10	15.3599	-6.51	19.73	13.22	50.00	-36.78	AVG
11	29.9028	10.77	19.82	30.59	60.00	-29.41	QP
12	29.9028	-4.90	19.82	14.92	50.00	-35.08	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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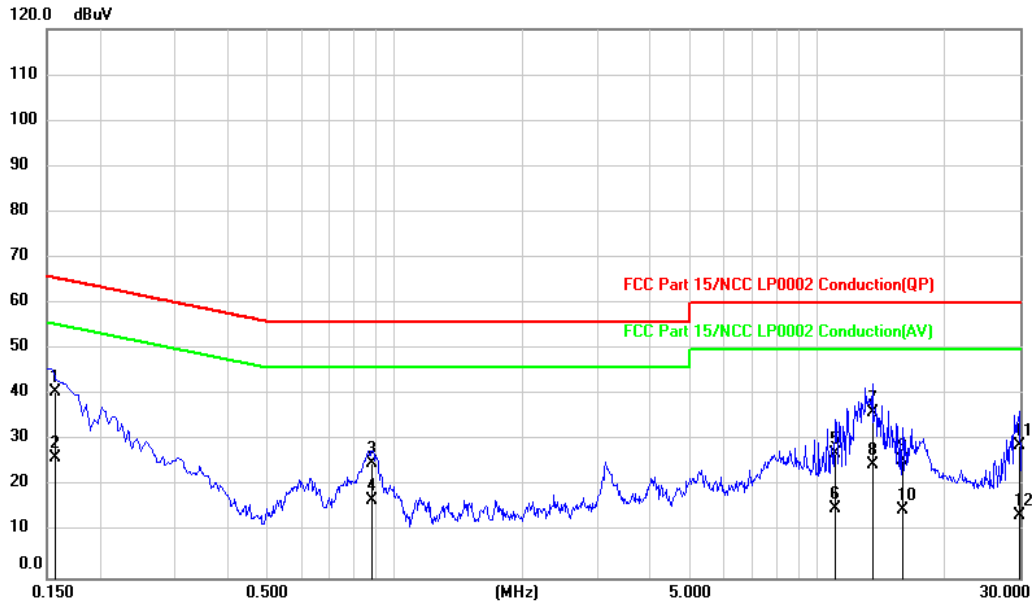
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Phase of Power : Neutral (N)



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No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	dB	(dBuV)	(dBuV)	(dB)	
1	0.1565	21.21	19.47	40.68	65.65	-24.97	QP
2	0.1565	6.86	19.47	26.33	55.65	-29.32	AVG
3	0.8808	5.48	19.50	24.98	56.00	-31.02	QP
4	0.8808	-2.61	19.50	16.89	46.00	-29.11	AVG
5	11.0136	7.50	19.71	27.21	60.00	-32.79	QP
6	11.0136	-4.64	19.71	15.07	50.00	-34.93	AVG
7	13.4304	16.38	19.76	36.14	60.00	-23.86	QP
8	13.4304	4.91	19.76	24.67	50.00	-25.33	AVG
9	15.8533	5.85	19.81	25.66	60.00	-34.34	QP
10	15.8533	-5.06	19.81	14.75	50.00	-35.25	AVG
11	29.8784	8.83	20.00	28.83	60.00	-31.17	QP
12	29.8784	-6.24	20.00	13.76	50.00	-36.24	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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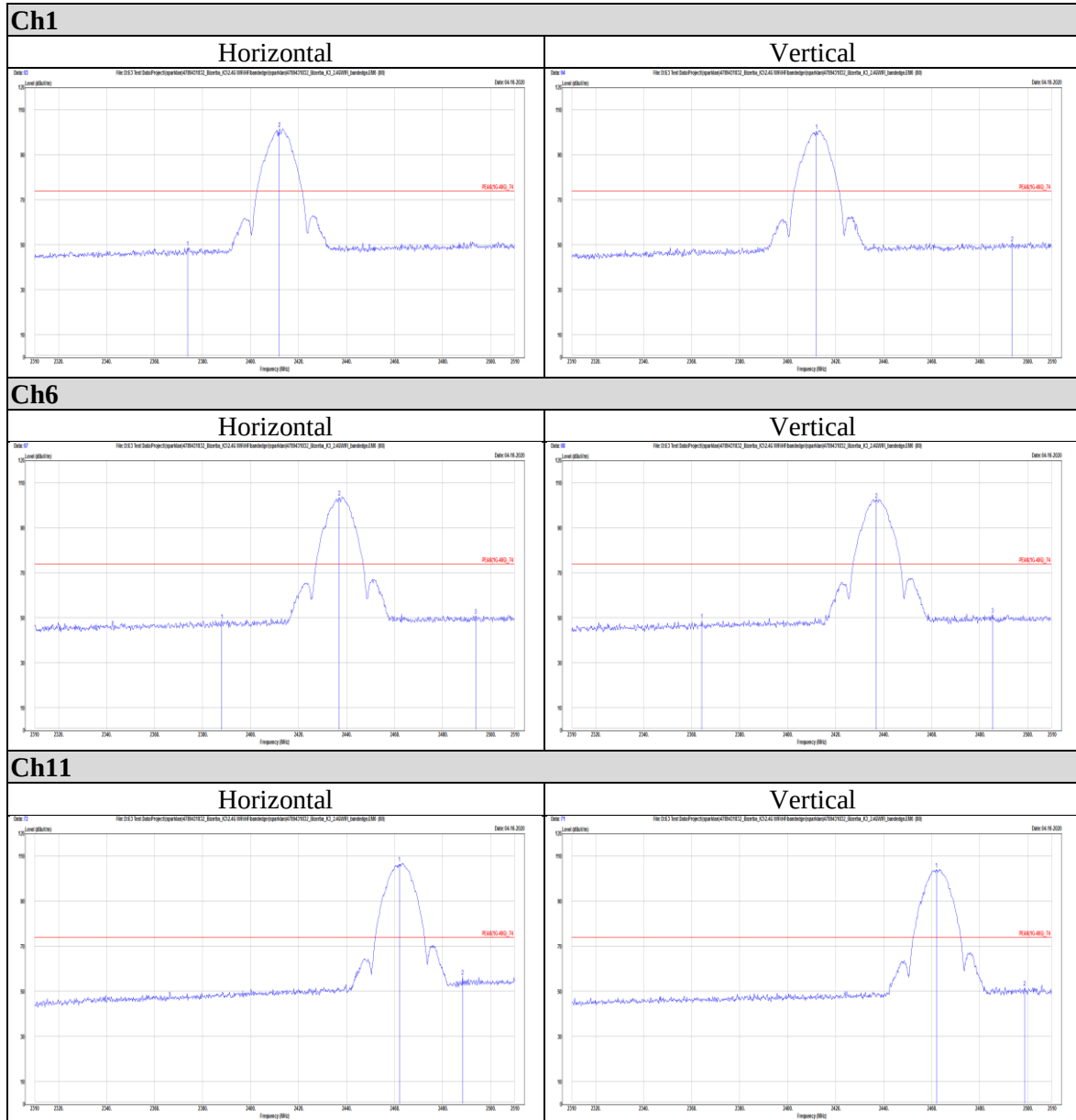
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Appendix I Radiated Band Edge Measurement

802.11b

Peak



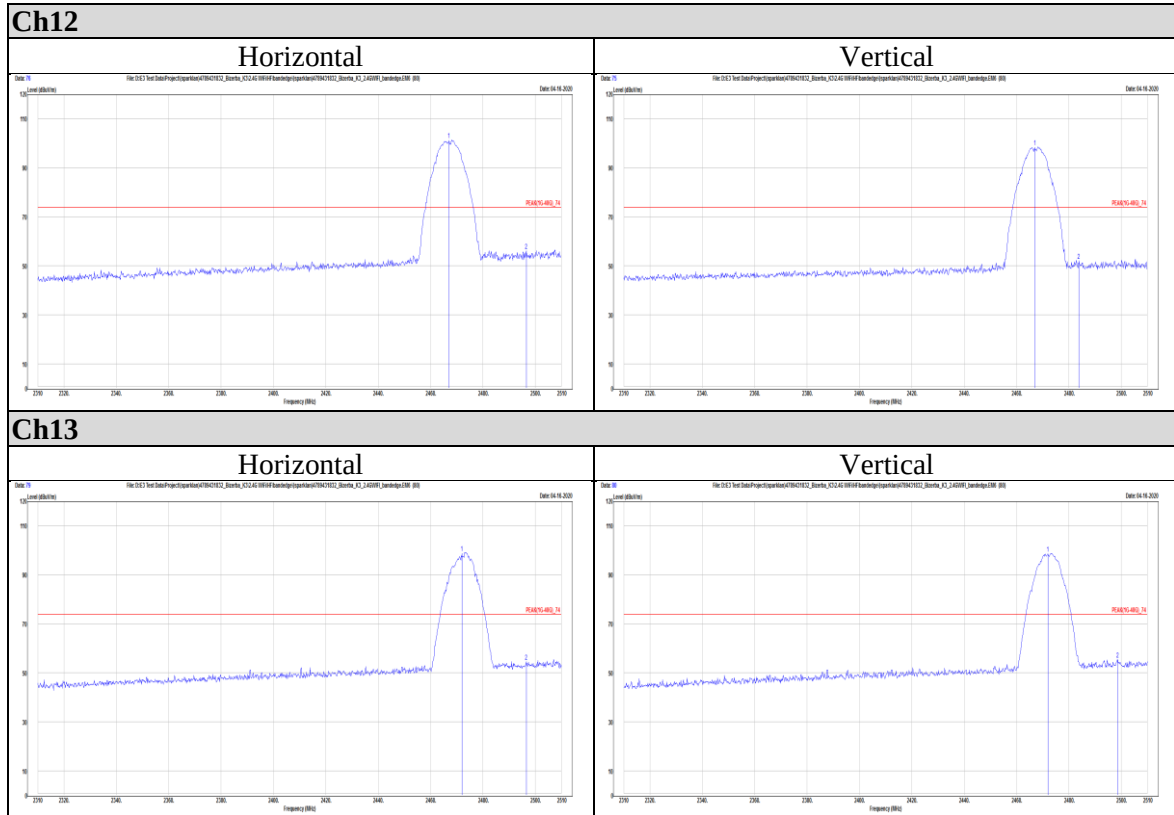
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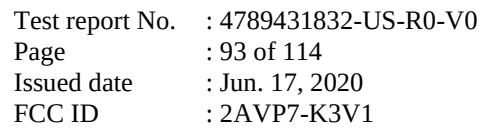
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Ch1

Horizontal

Vertical

Ch6

Horizontal

Vertical

Ch11

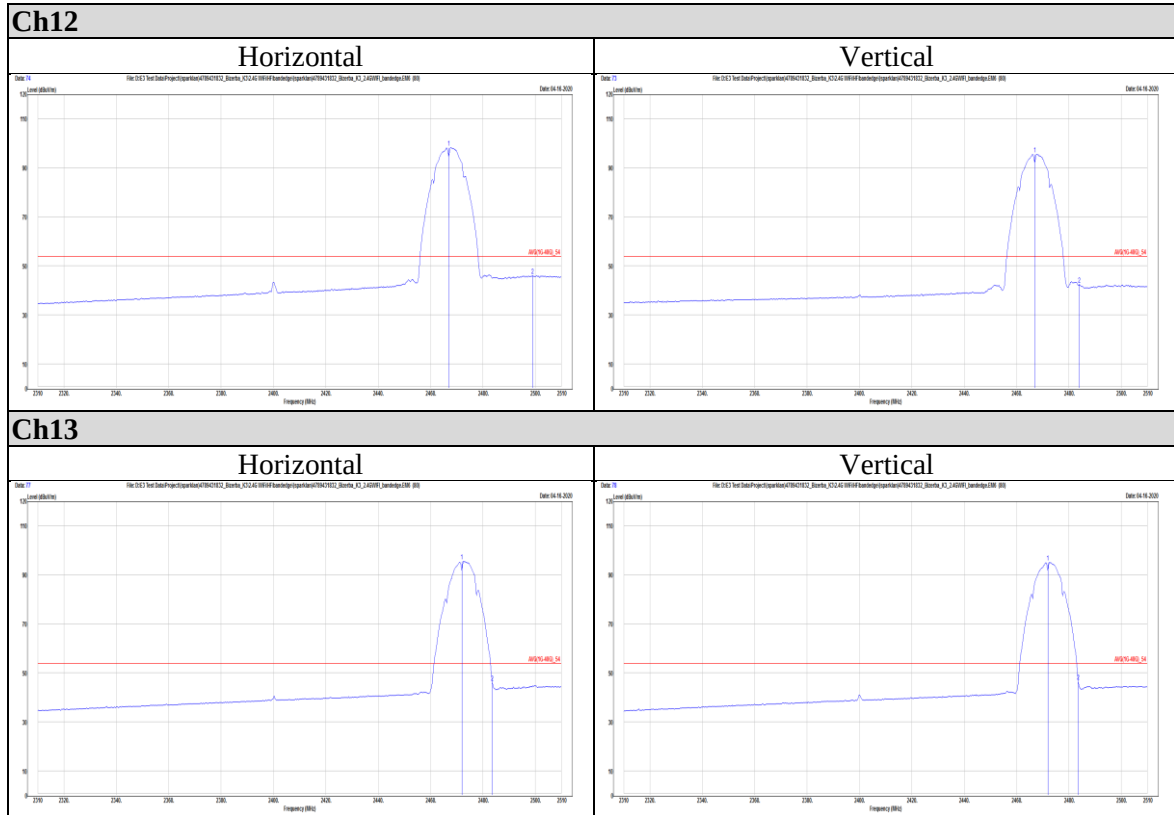
Horizontal

Vertical

The figure displays the frequency response of a system for three channels: Ch1, Ch6, and Ch11. Each channel is represented by two plots: a 'Horizontal' plot and a 'Vertical' plot. The x-axis for all plots is 'Frequency (Hz)' on a logarithmic scale from 270 to 210. The y-axis is 'Level (dB/Hz)' on a linear scale from 0 to 120. A red horizontal line at 0 dB is labeled '0dB (-40dB, 14)'. The plots show a peak around 3400 Hz and a sharp drop-off at higher frequencies.

Channel	Plot Type	Peak Frequency (Hz)	Peak Level (dB/Hz)
Ch1	Horizontal	~3400	~90
	Vertical	~3400	~90
Ch6	Horizontal	~3400	~90
	Vertical	~3400	~90
Ch11	Horizontal	~3400	~90
	Vertical	~3400	~90

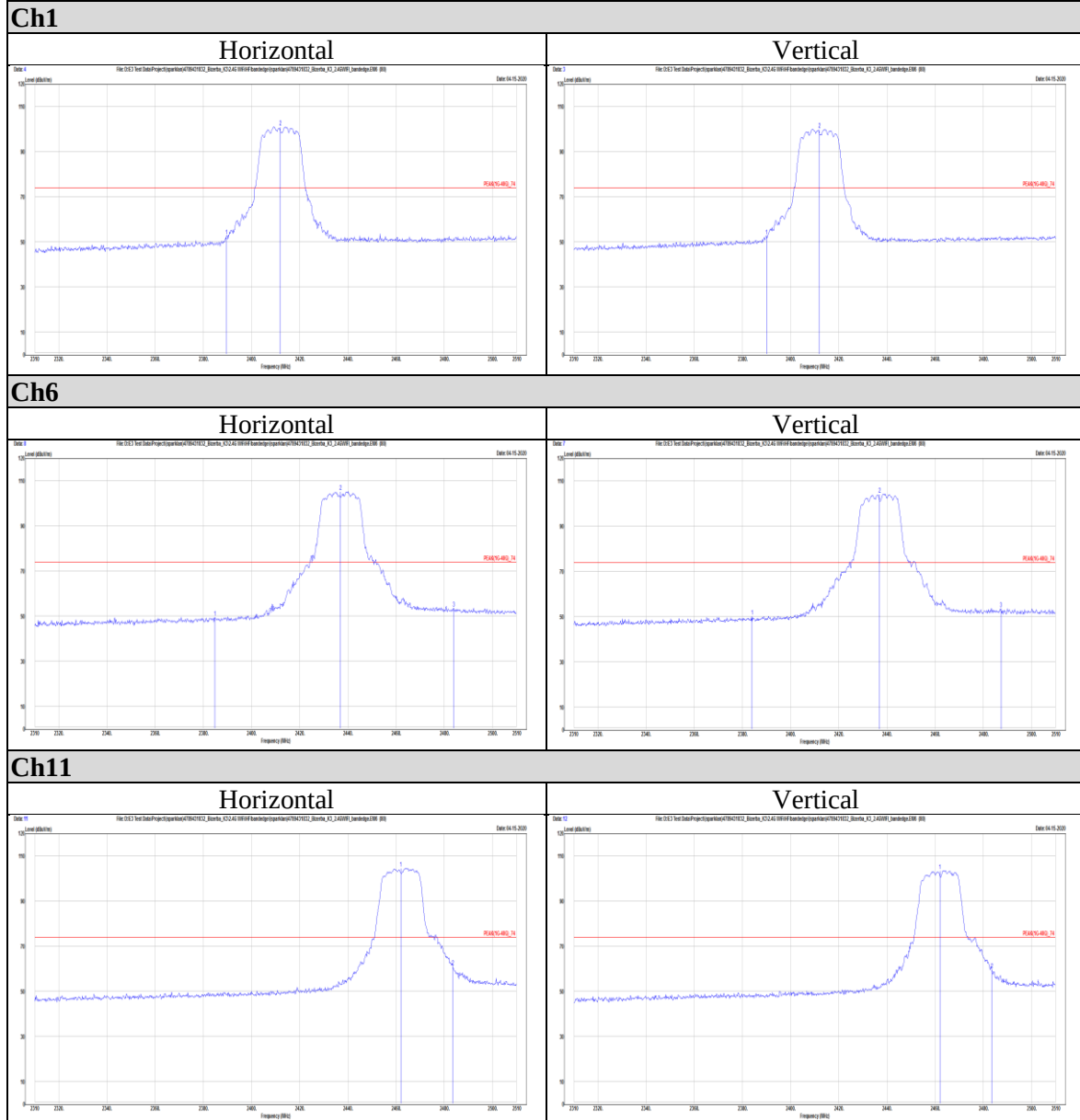
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802.11g

Peak



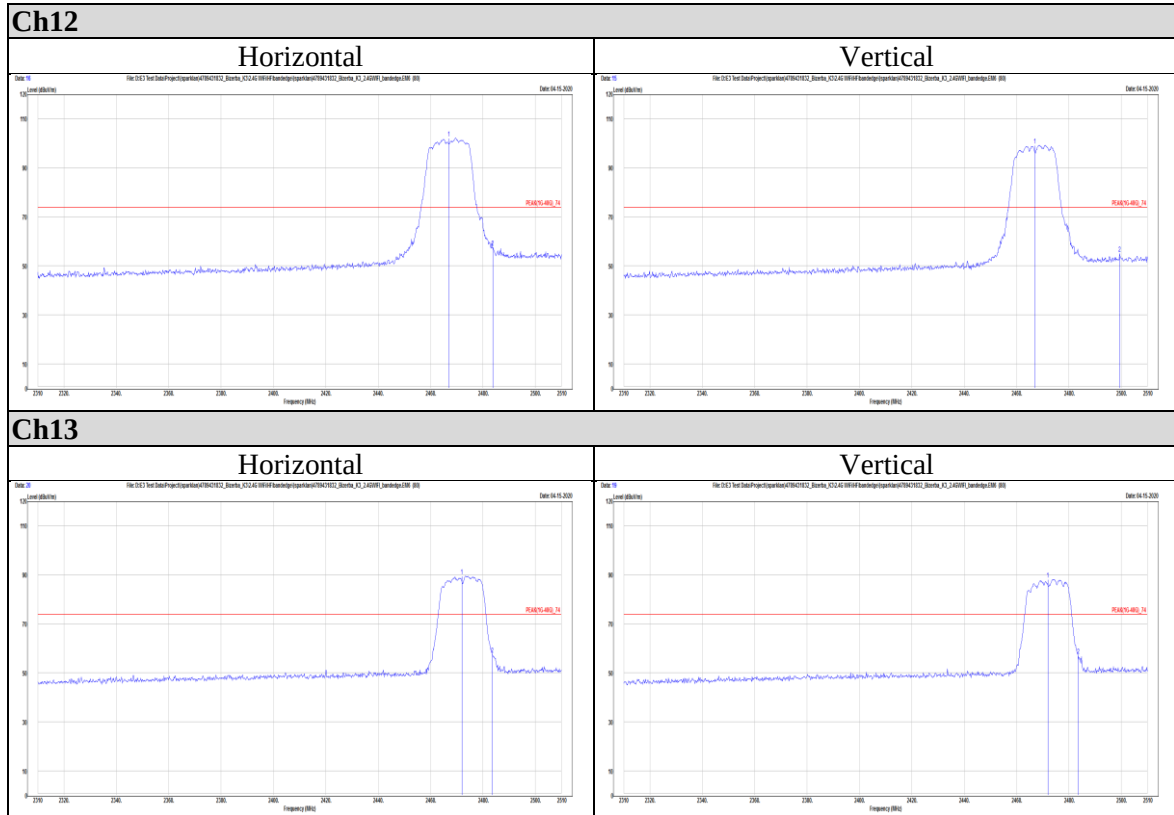
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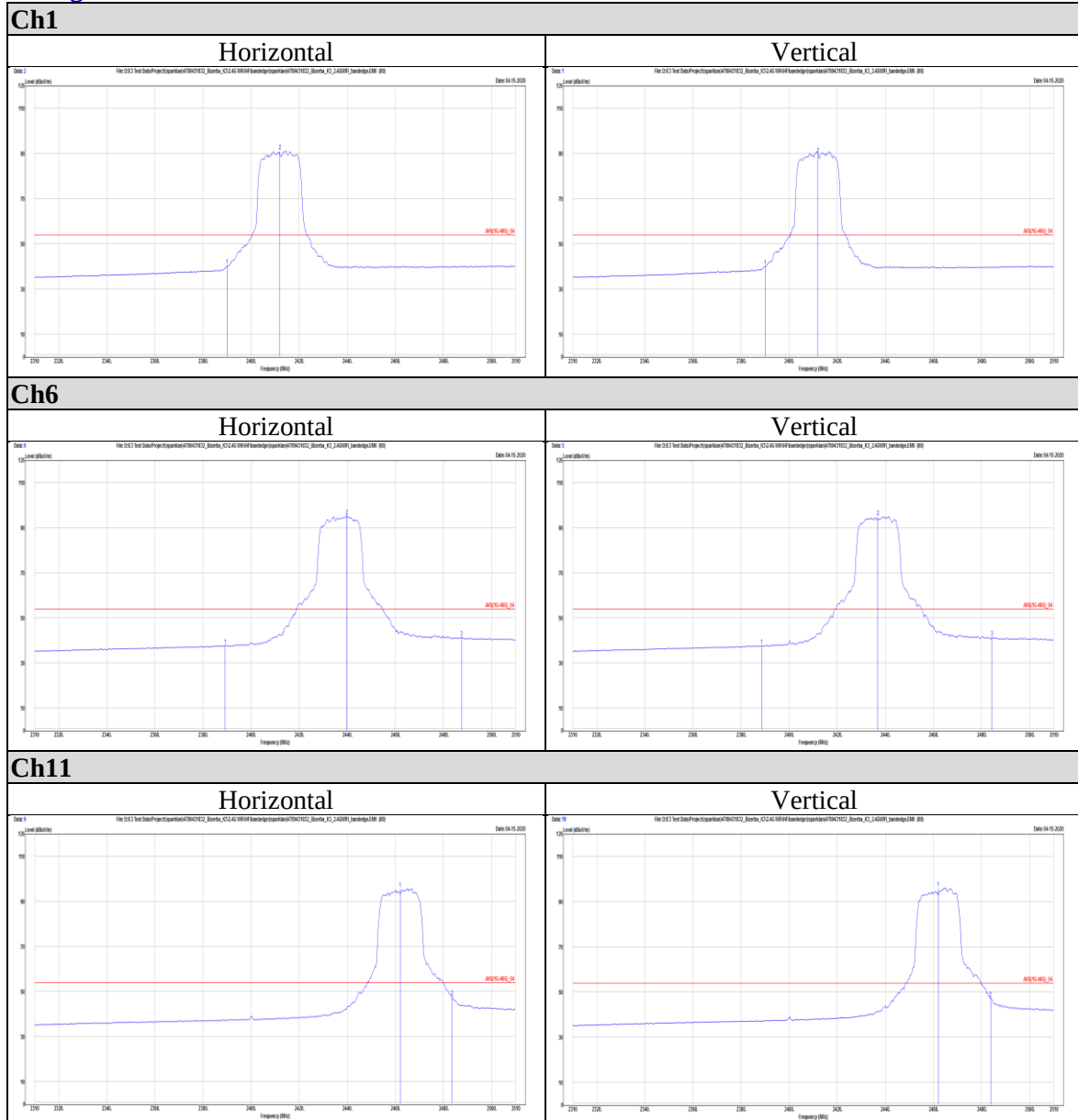
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Average



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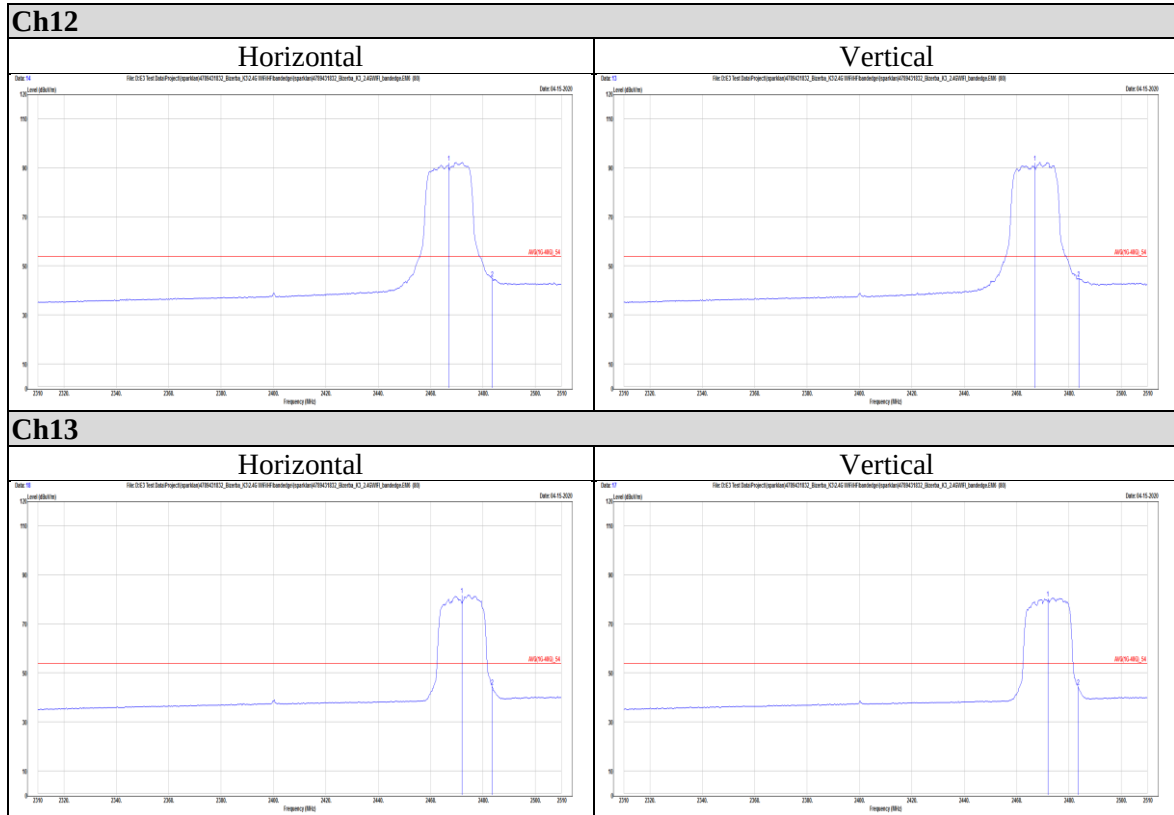
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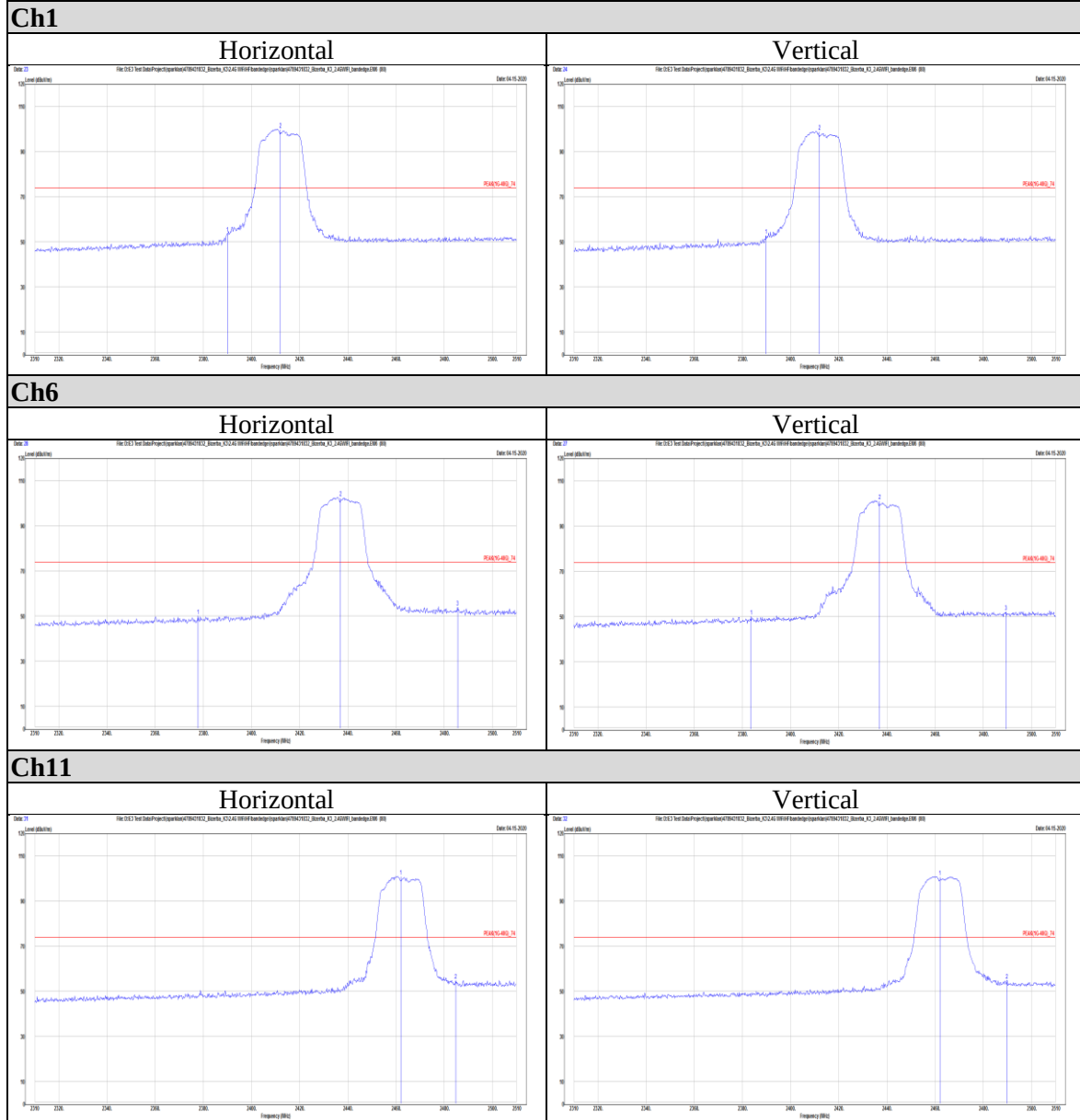
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Peak



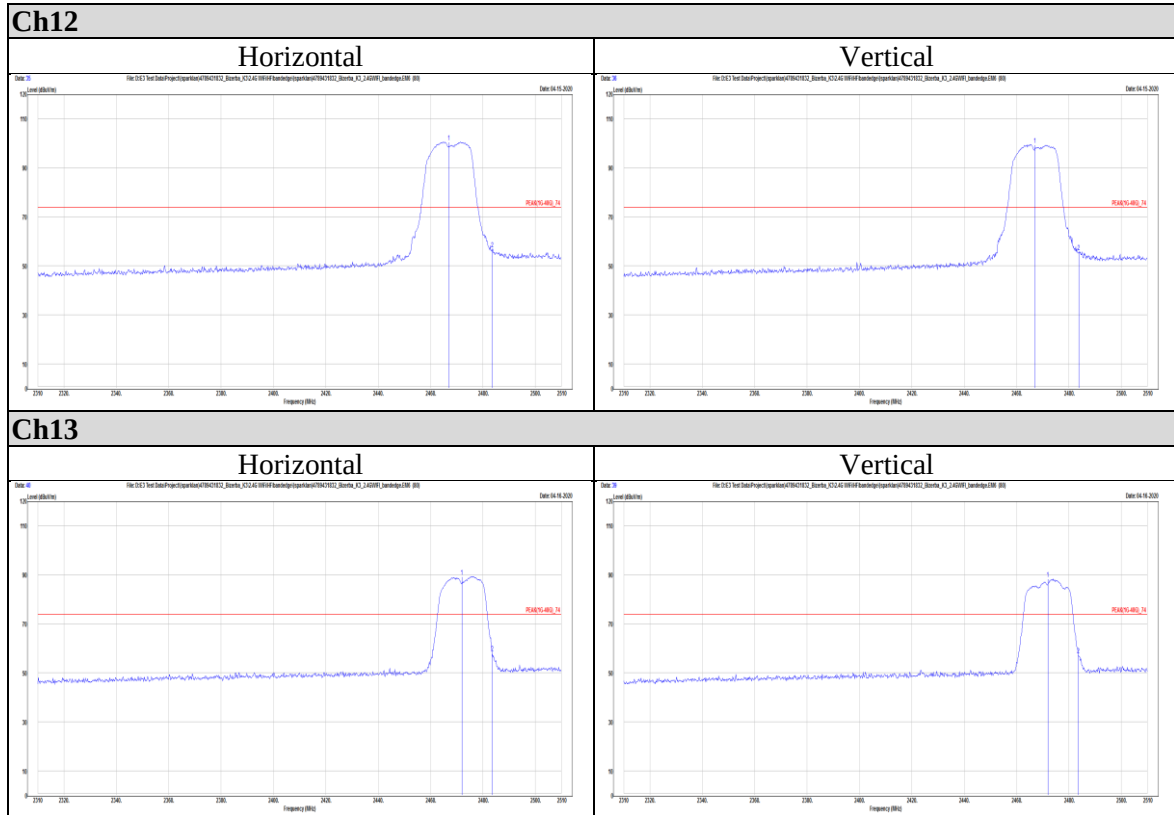
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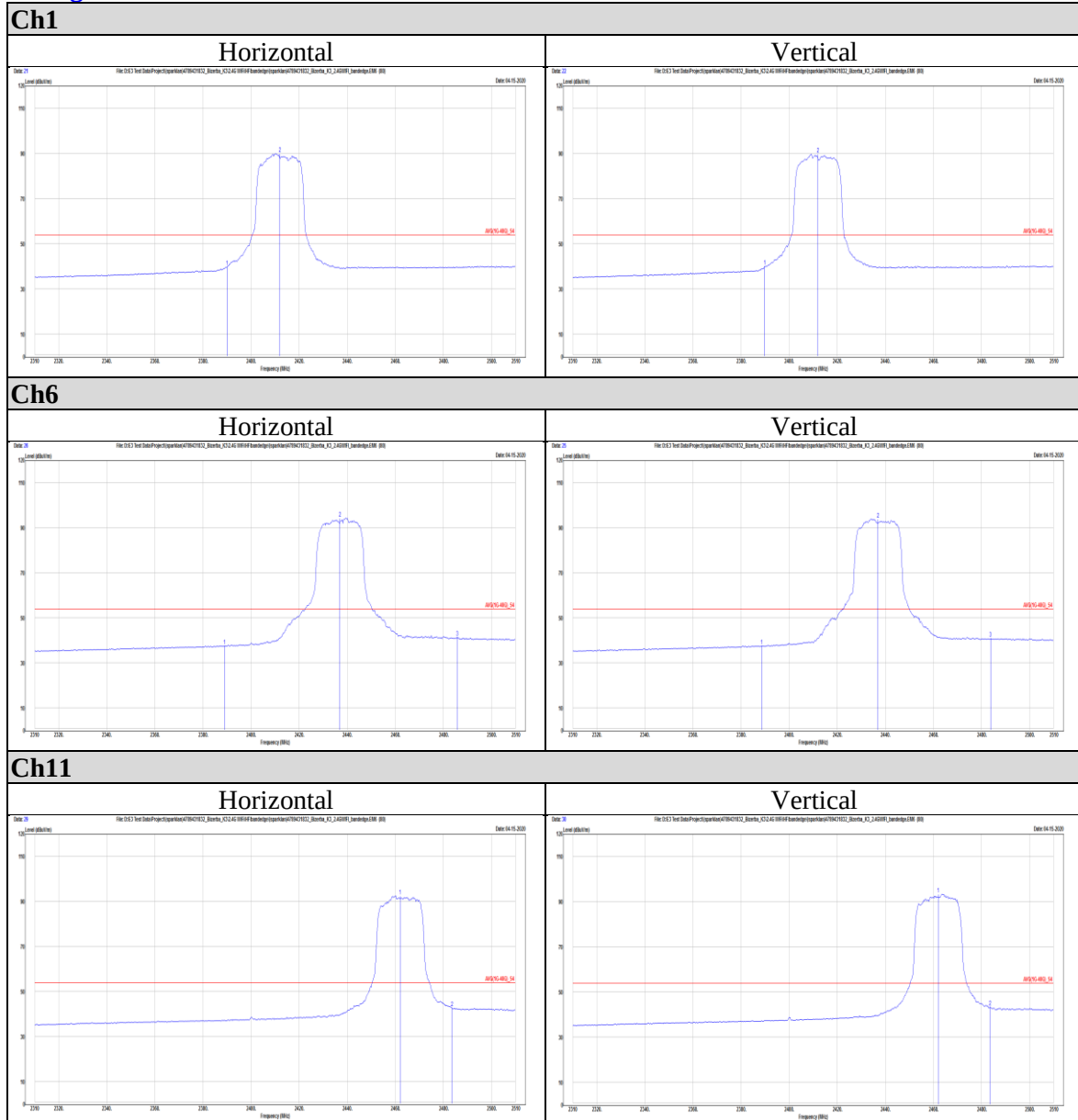
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Average



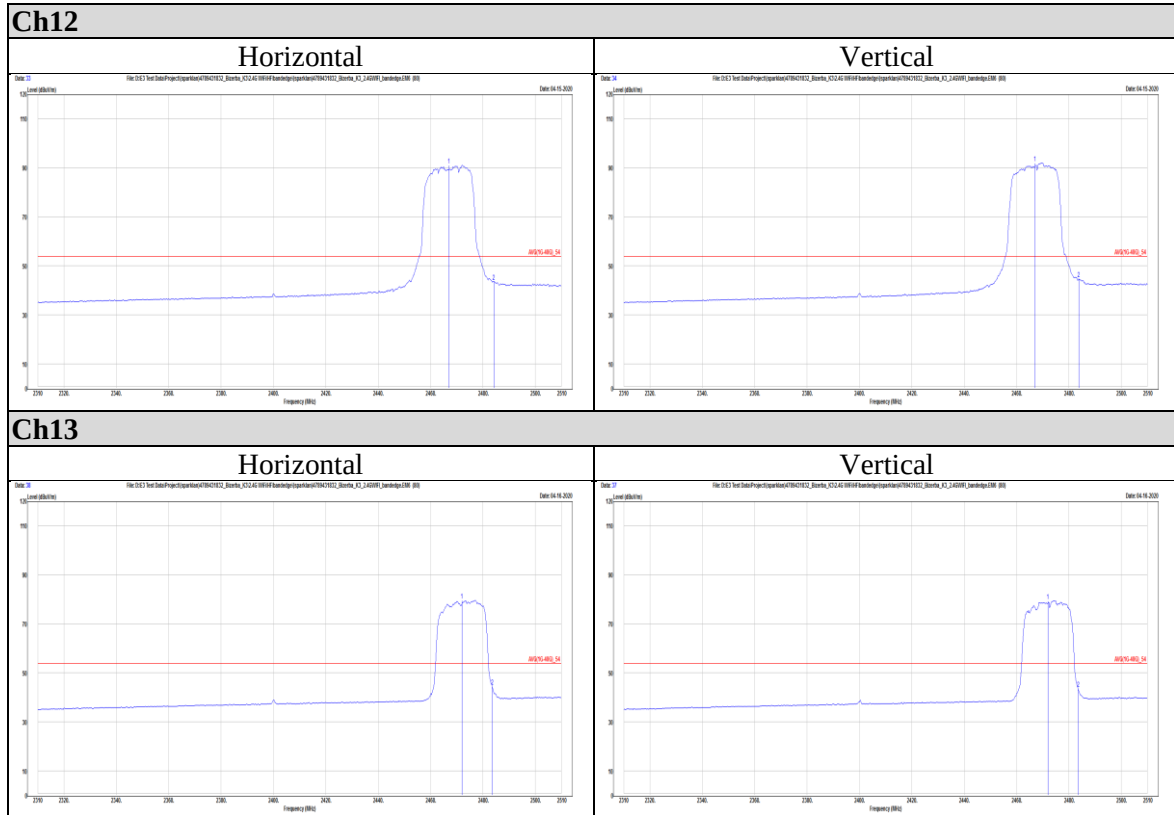
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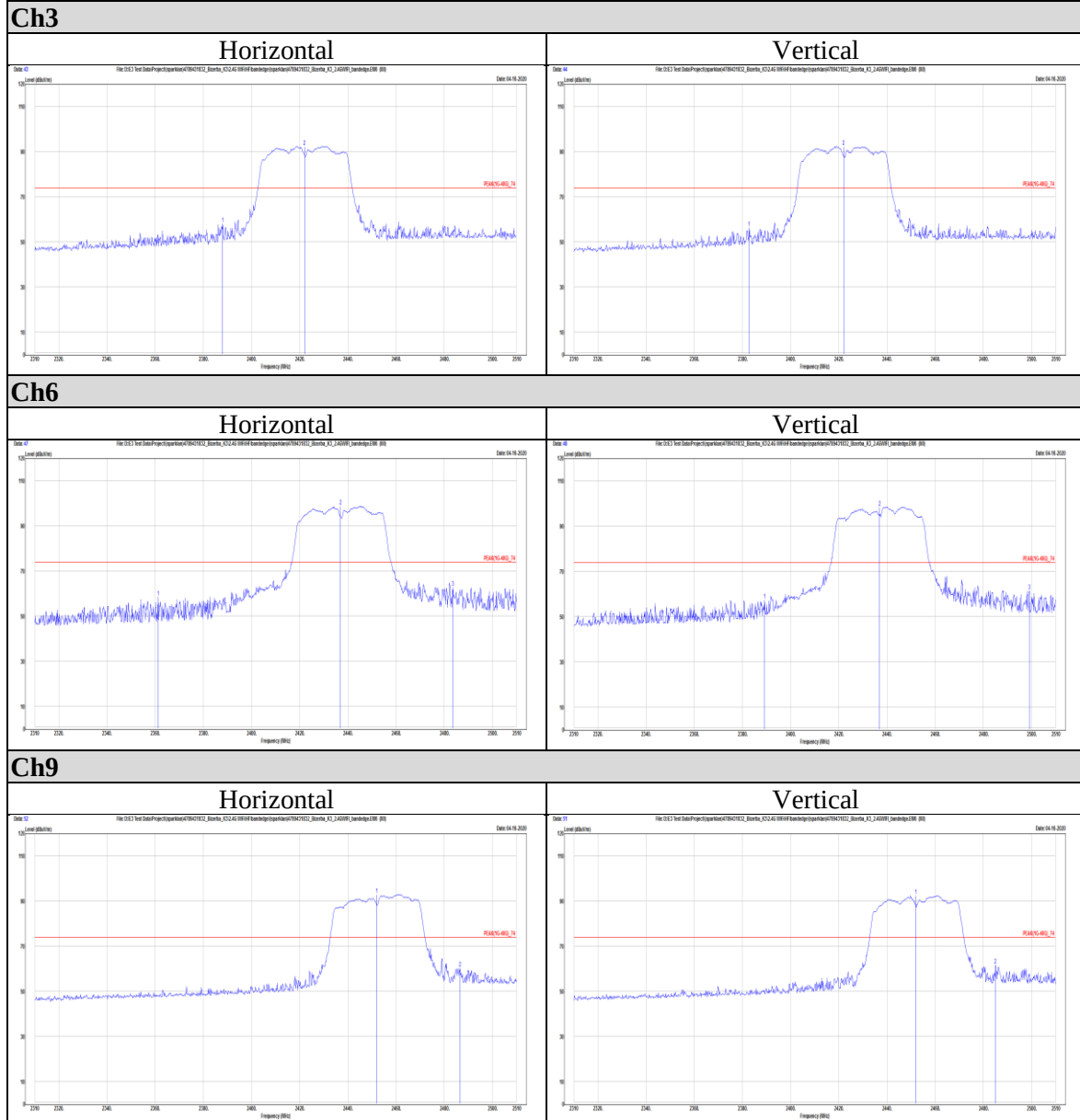
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802.11n (HT40)

Peak



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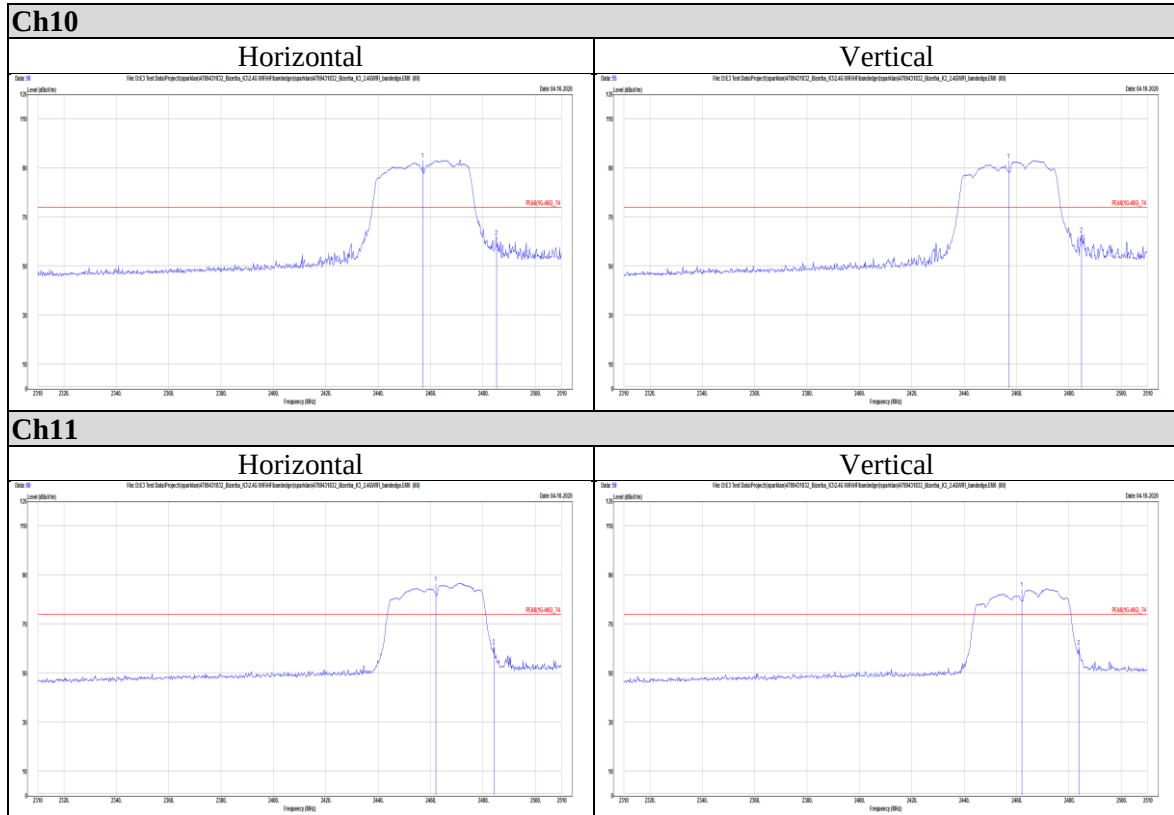
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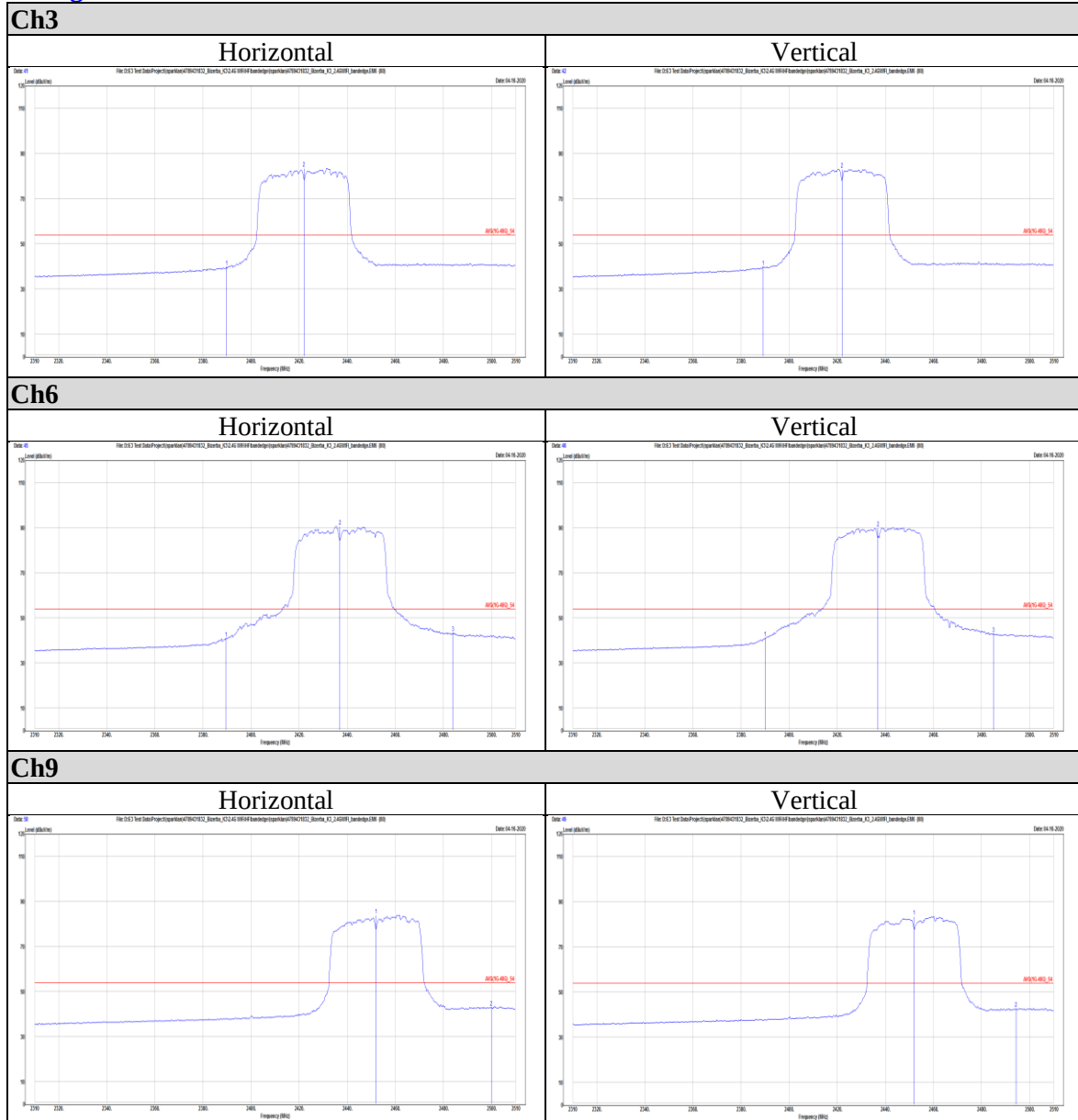
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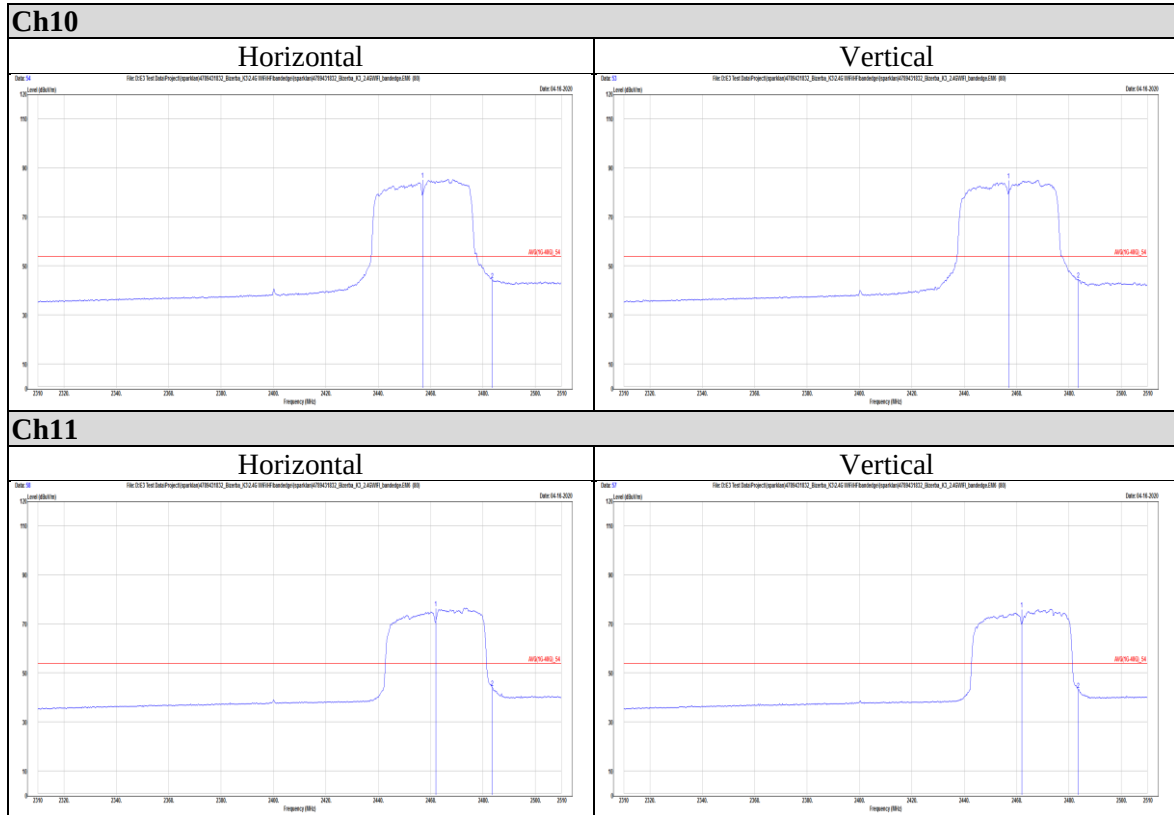
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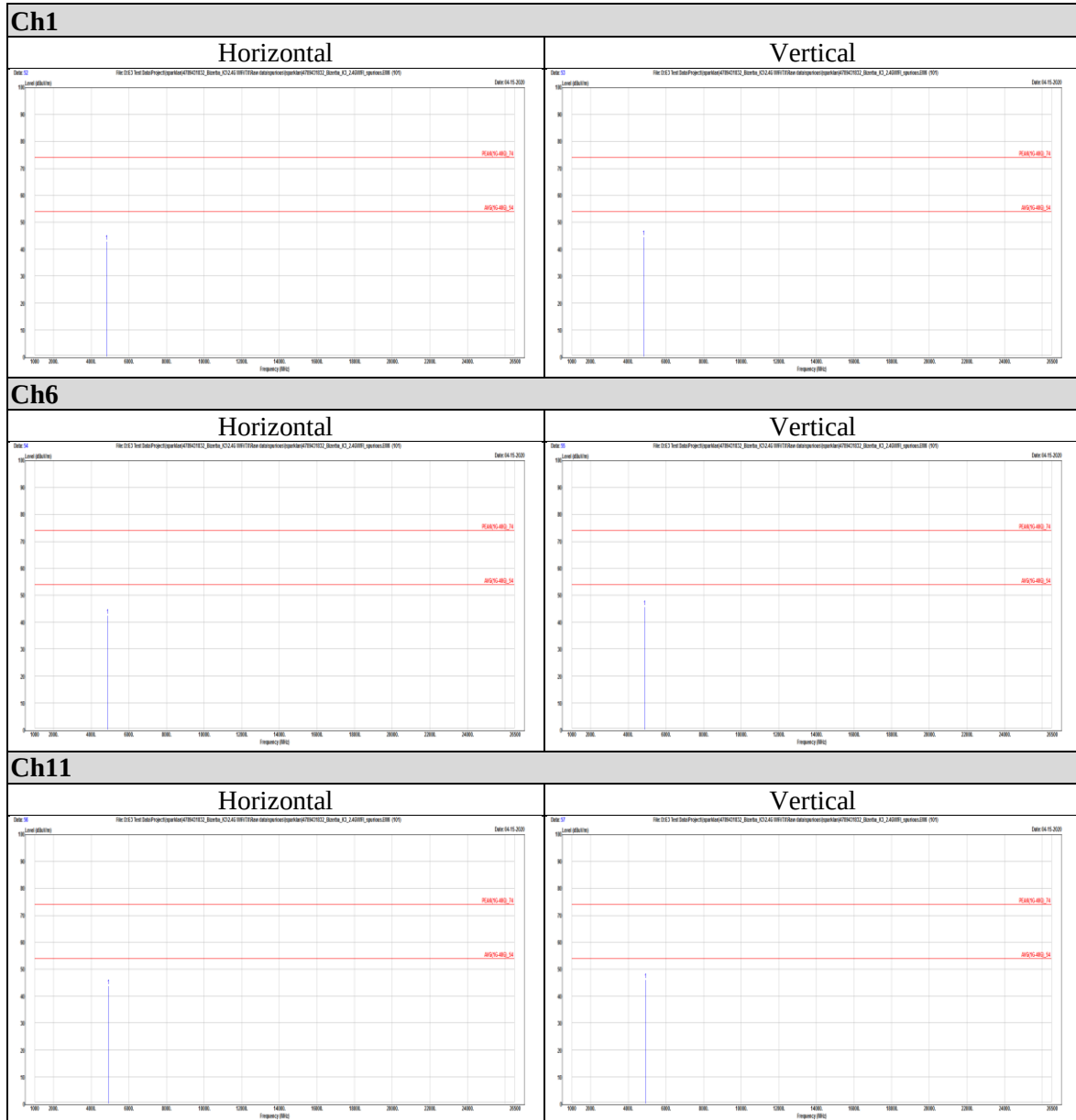
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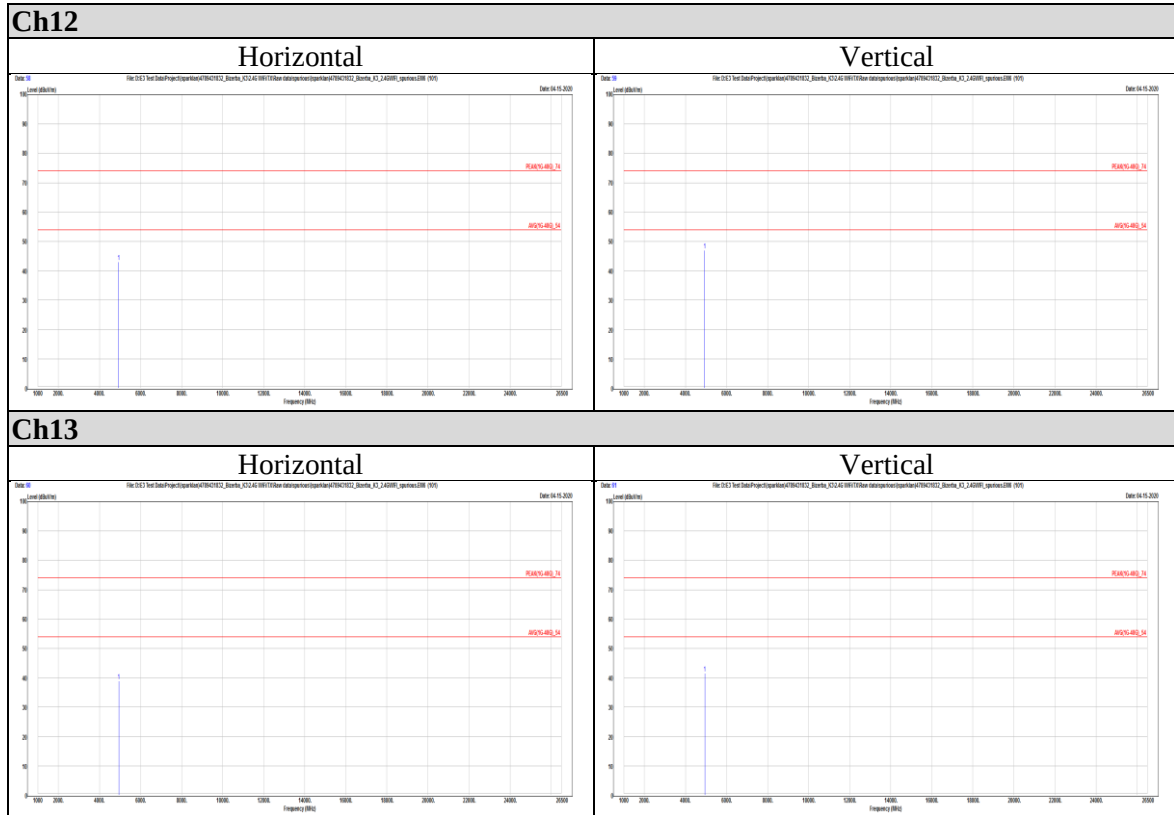
Appendix II Radiated Spurious Emission Measurement

802.11b





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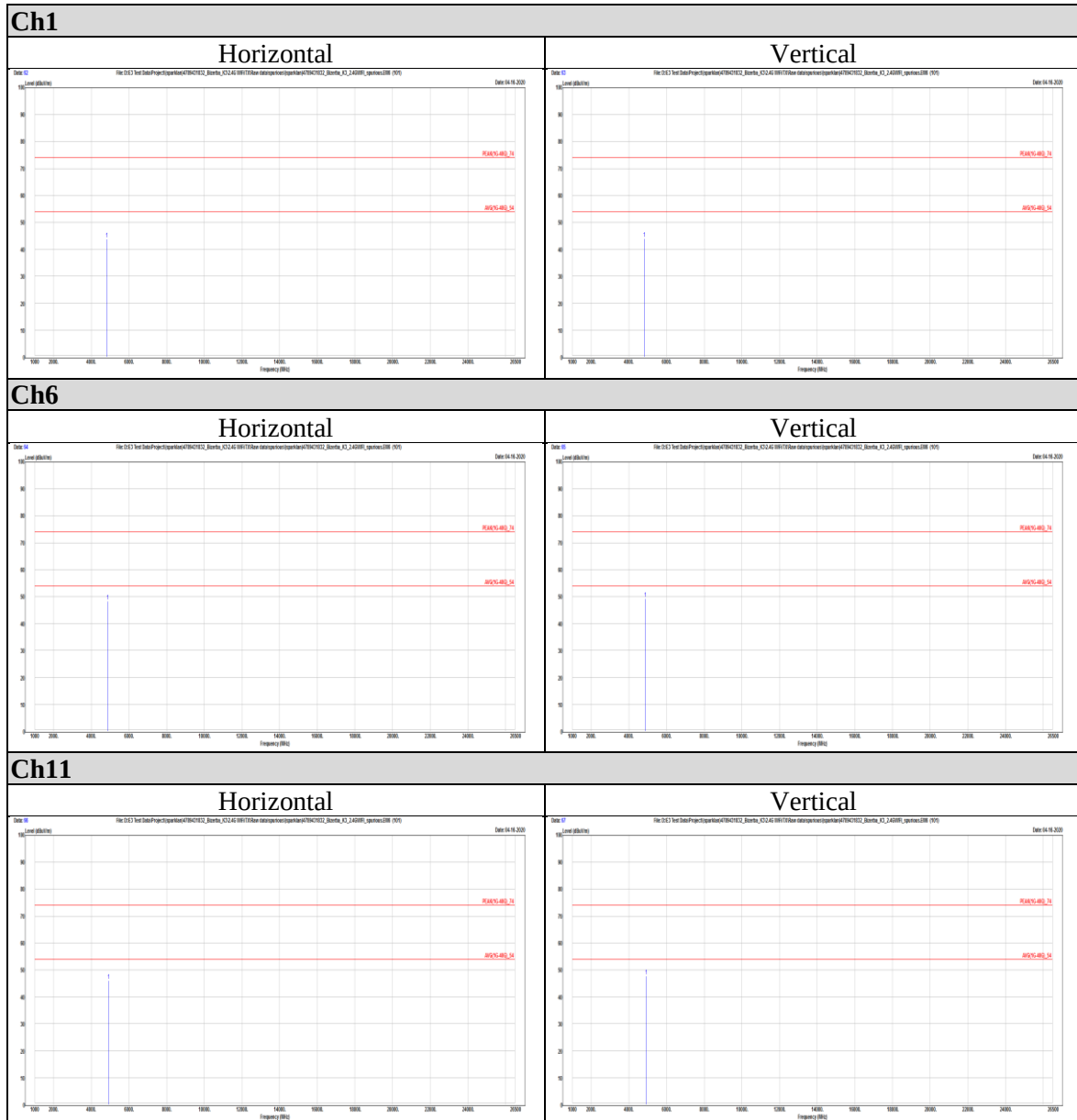
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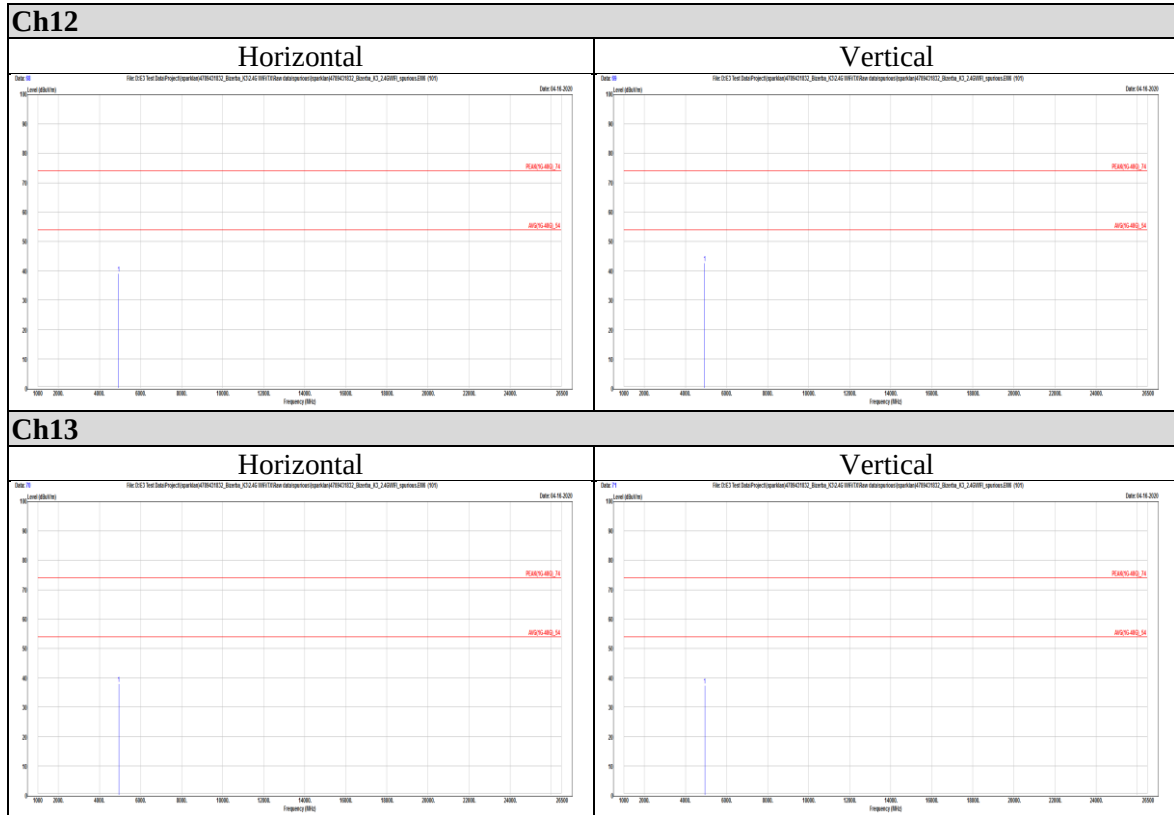
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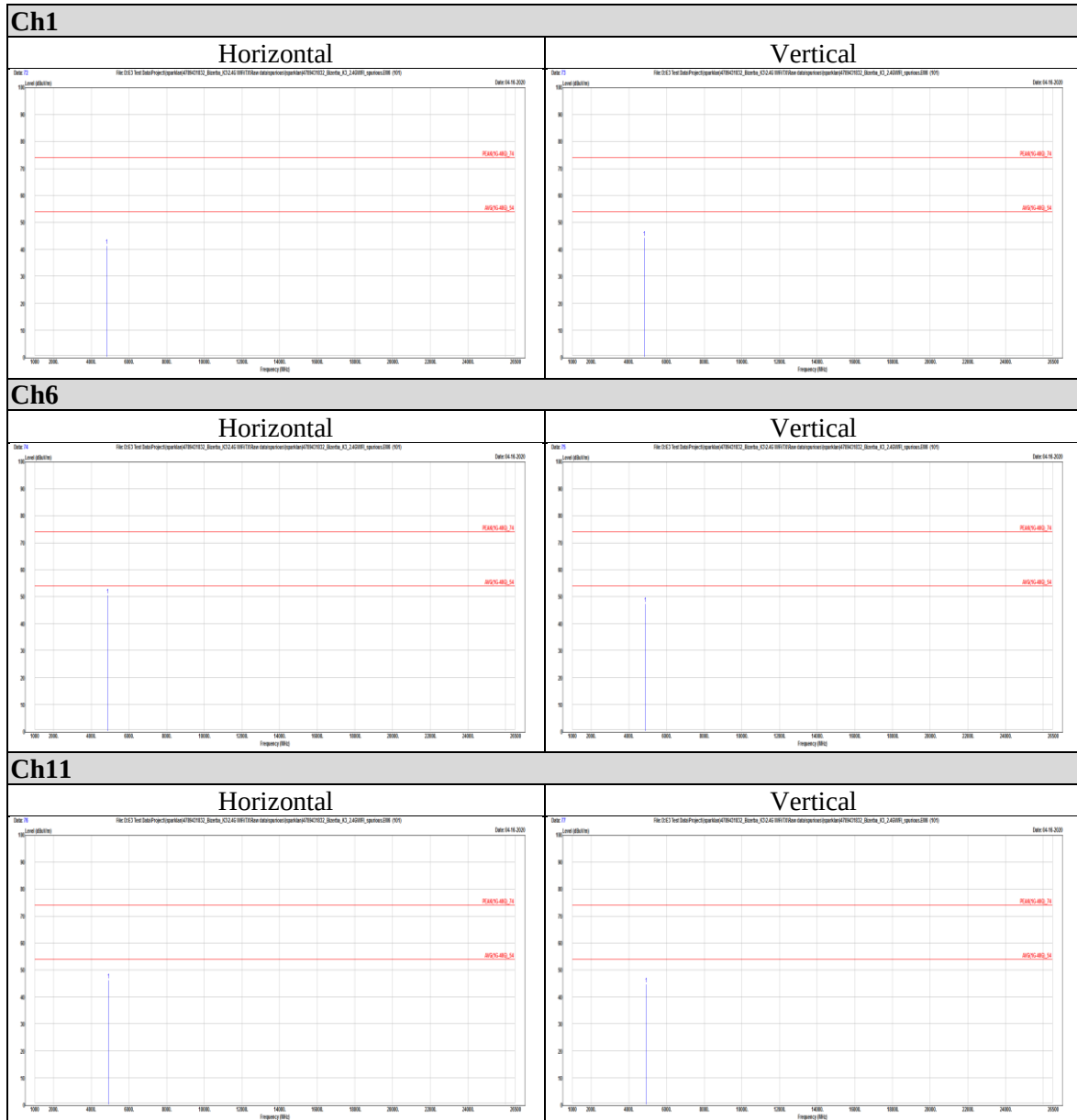
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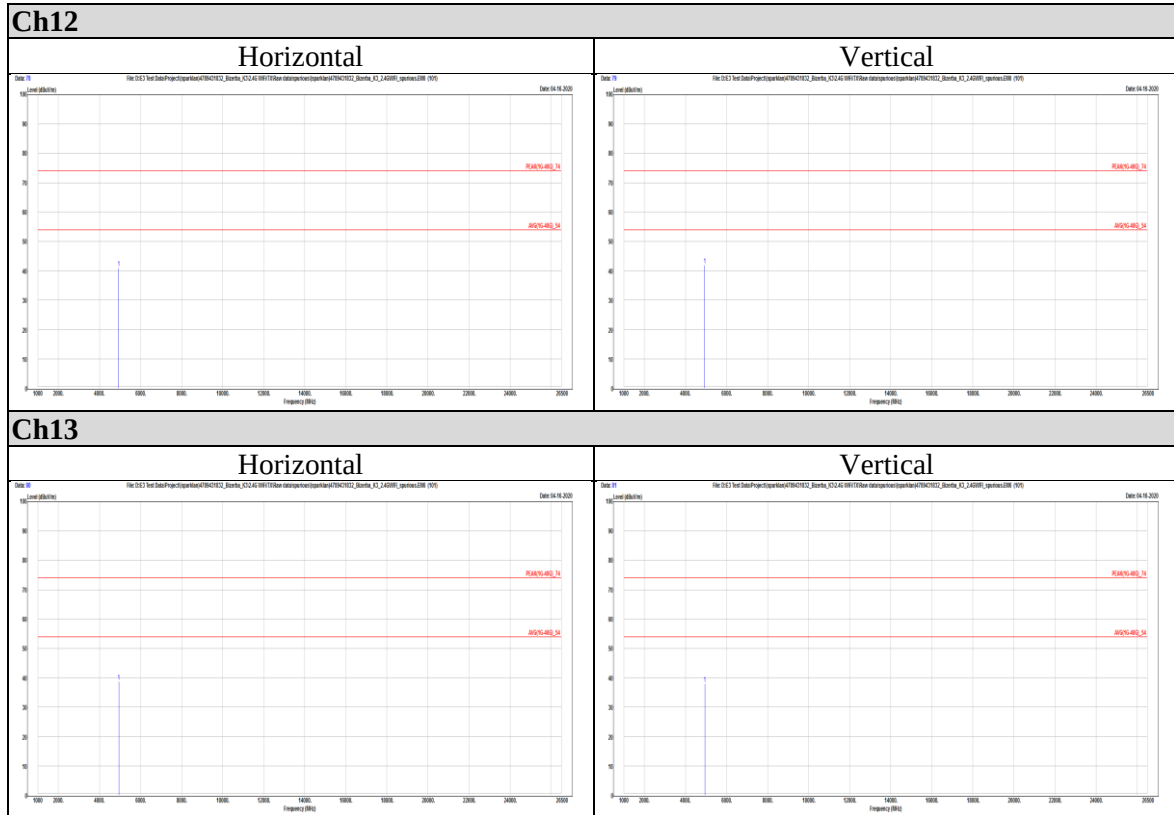


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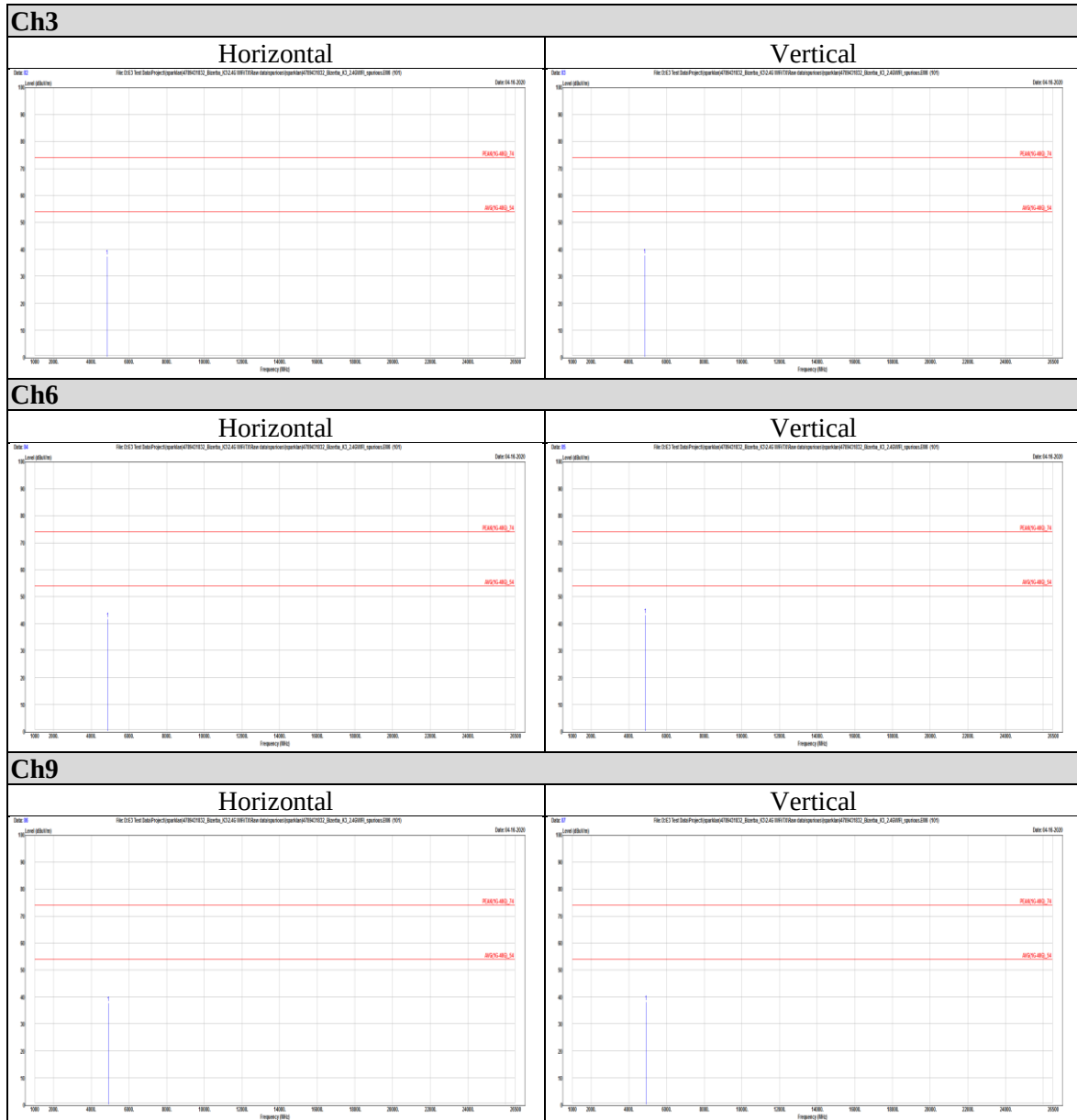
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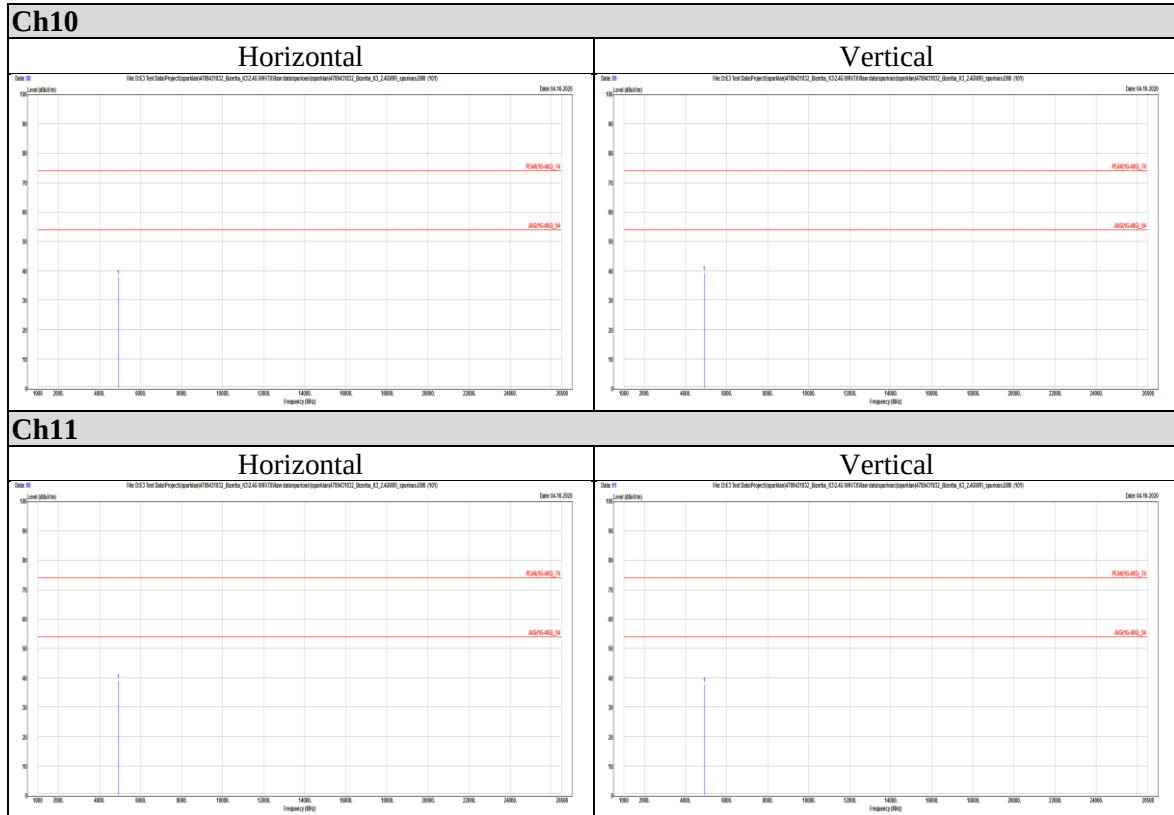
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