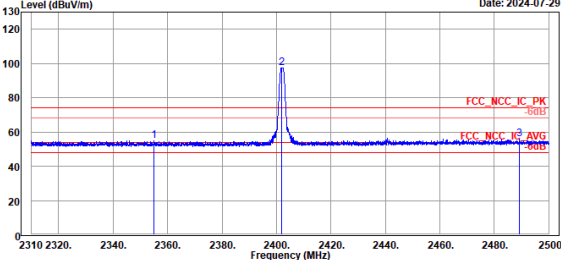
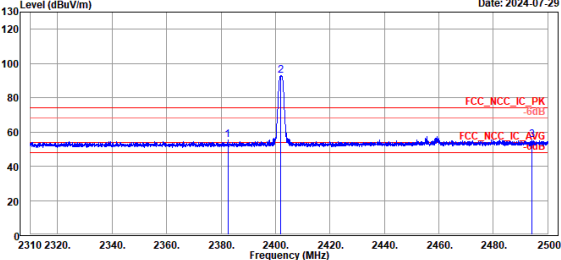
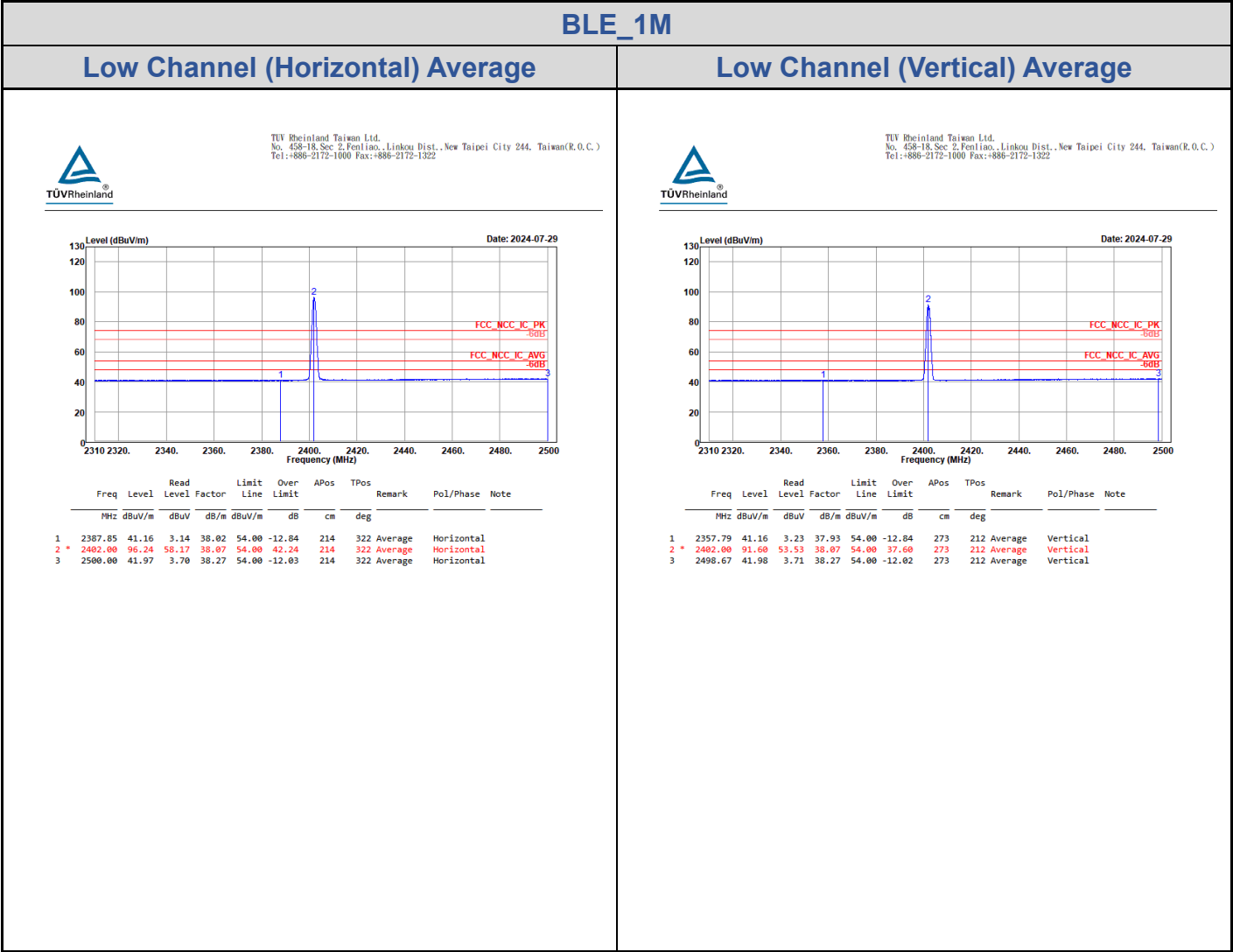


Appendix C: Test Results of Radiated Spurious Emissions & Mains

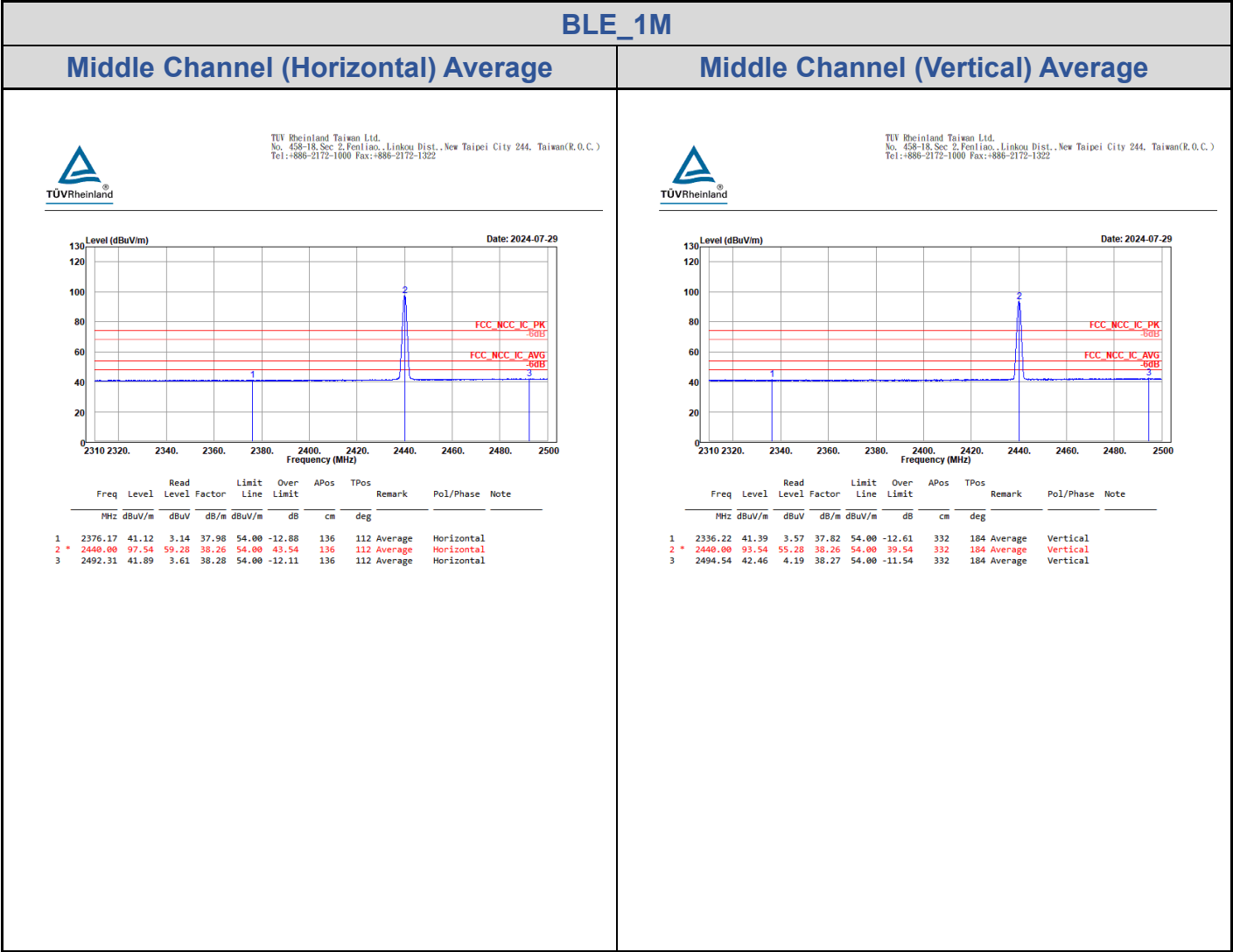
Radiated Emission Test for Series Model No. DK-9180D

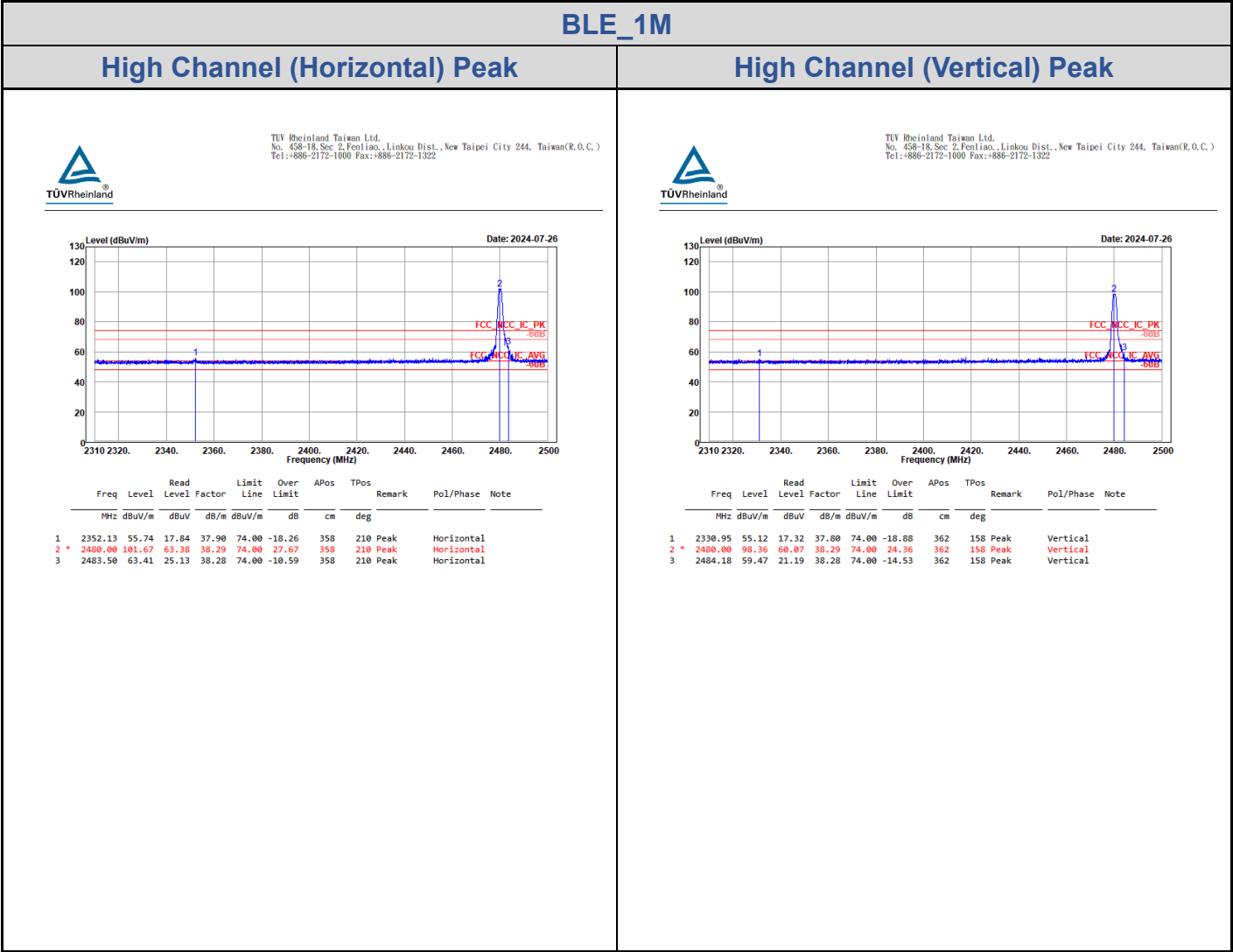
Band Edges, 2.31GHz ~ 2.5GHz

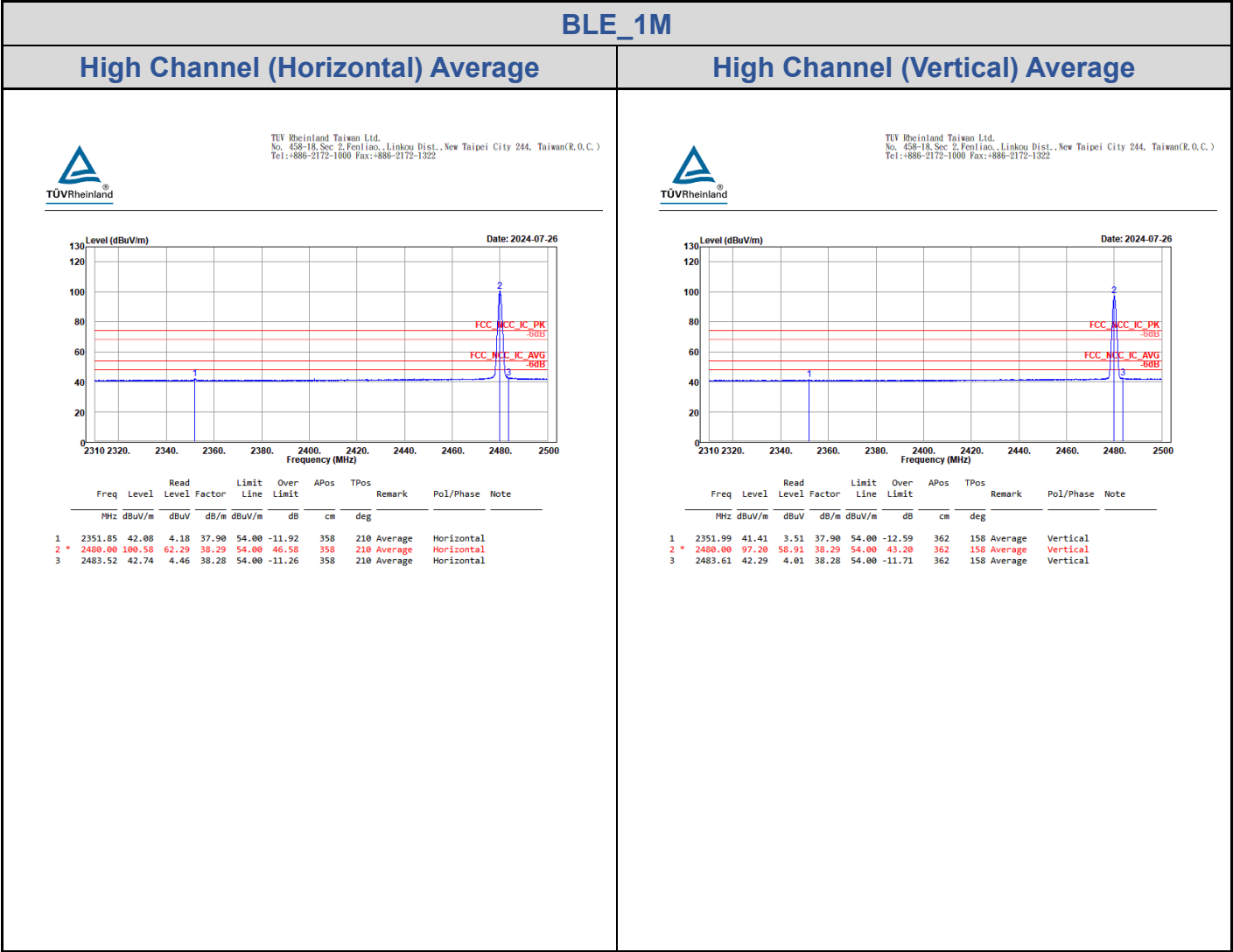
BLE_1M																																																																																																					
Low Channel (Horizontal) Peak	Low Channel (Vertical) Peak																																																																																																				
 TÜV Rheinland Taiwan Ltd. No. 458-18, Sec 2, Fenliiao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.) Tel: +886-2172-1000 Fax: +886-2172-1322 Level (dBuV/m) Date: 2024-07-29 <table><thead><tr><th>Freq</th><th>Level</th><th>Read Level Factor</th><th>Limit Line</th><th>Over Limit</th><th>APos</th><th>TPos</th><th>Remark</th><th>Pol/Phase</th><th>Note</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dBuV/m</th><th>dB</th><th>cm</th><th>deg</th><th></th><th></th></tr></thead><tbody><tr><td>1</td><td>2355.03</td><td>54.79</td><td>16.88</td><td>37.91</td><td>74.00</td><td>-19.21</td><td>214</td><td>322 Peak</td><td>Horizontal</td></tr><tr><td>2</td><td>2402.00</td><td>97.40</td><td>59.33</td><td>38.07</td><td>74.00</td><td>23.40</td><td>214</td><td>322 Peak</td><td>Horizontal</td></tr><tr><td>3</td><td>2489.31</td><td>55.70</td><td>17.42</td><td>38.28</td><td>74.00</td><td>-18.30</td><td>214</td><td>322 Peak</td><td>Horizontal</td></tr></tbody></table>	Freq	Level	Read Level Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			1	2355.03	54.79	16.88	37.91	74.00	-19.21	214	322 Peak	Horizontal	2	2402.00	97.40	59.33	38.07	74.00	23.40	214	322 Peak	Horizontal	3	2489.31	55.70	17.42	38.28	74.00	-18.30	214	322 Peak	Horizontal	 TÜV Rheinland Taiwan Ltd. No. 458-18, Sec 2, Fenliiao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.) Tel: +886-2172-1000 Fax: +886-2172-1322 Level (dBuV/m) Date: 2024-07-29 <table><thead><tr><th>Freq</th><th>Level</th><th>Read Level Factor</th><th>Limit Line</th><th>Over Limit</th><th>APos</th><th>TPos</th><th>Remark</th><th>Pol/Phase</th><th>Note</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dBuV/m</th><th>dB</th><th>cm</th><th>deg</th><th></th><th></th></tr></thead><tbody><tr><td>1</td><td>2382.49</td><td>55.53</td><td>17.53</td><td>38.00</td><td>74.00</td><td>-18.47</td><td>273</td><td>212 Peak</td><td>Vertical</td></tr><tr><td>2</td><td>2402.00</td><td>92.74</td><td>54.67</td><td>38.07</td><td>74.00</td><td>18.74</td><td>273</td><td>212 Peak</td><td>Vertical</td></tr><tr><td>3</td><td>2494.06</td><td>55.54</td><td>17.27</td><td>38.27</td><td>74.00</td><td>-18.46</td><td>273</td><td>212 Peak</td><td>Vertical</td></tr></tbody></table>	Freq	Level	Read Level Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			1	2382.49	55.53	17.53	38.00	74.00	-18.47	273	212 Peak	Vertical	2	2402.00	92.74	54.67	38.07	74.00	18.74	273	212 Peak	Vertical	3	2494.06	55.54	17.27	38.27	74.00	-18.46	273	212 Peak	Vertical
Freq	Level	Read Level Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note																																																																																												
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg																																																																																														
1	2355.03	54.79	16.88	37.91	74.00	-19.21	214	322 Peak	Horizontal																																																																																												
2	2402.00	97.40	59.33	38.07	74.00	23.40	214	322 Peak	Horizontal																																																																																												
3	2489.31	55.70	17.42	38.28	74.00	-18.30	214	322 Peak	Horizontal																																																																																												
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MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg																																																																																														
1	2382.49	55.53	17.53	38.00	74.00	-18.47	273	212 Peak	Vertical																																																																																												
2	2402.00	92.74	54.67	38.07	74.00	18.74	273	212 Peak	Vertical																																																																																												
3	2494.06	55.54	17.27	38.27	74.00	-18.46	273	212 Peak	Vertical																																																																																												

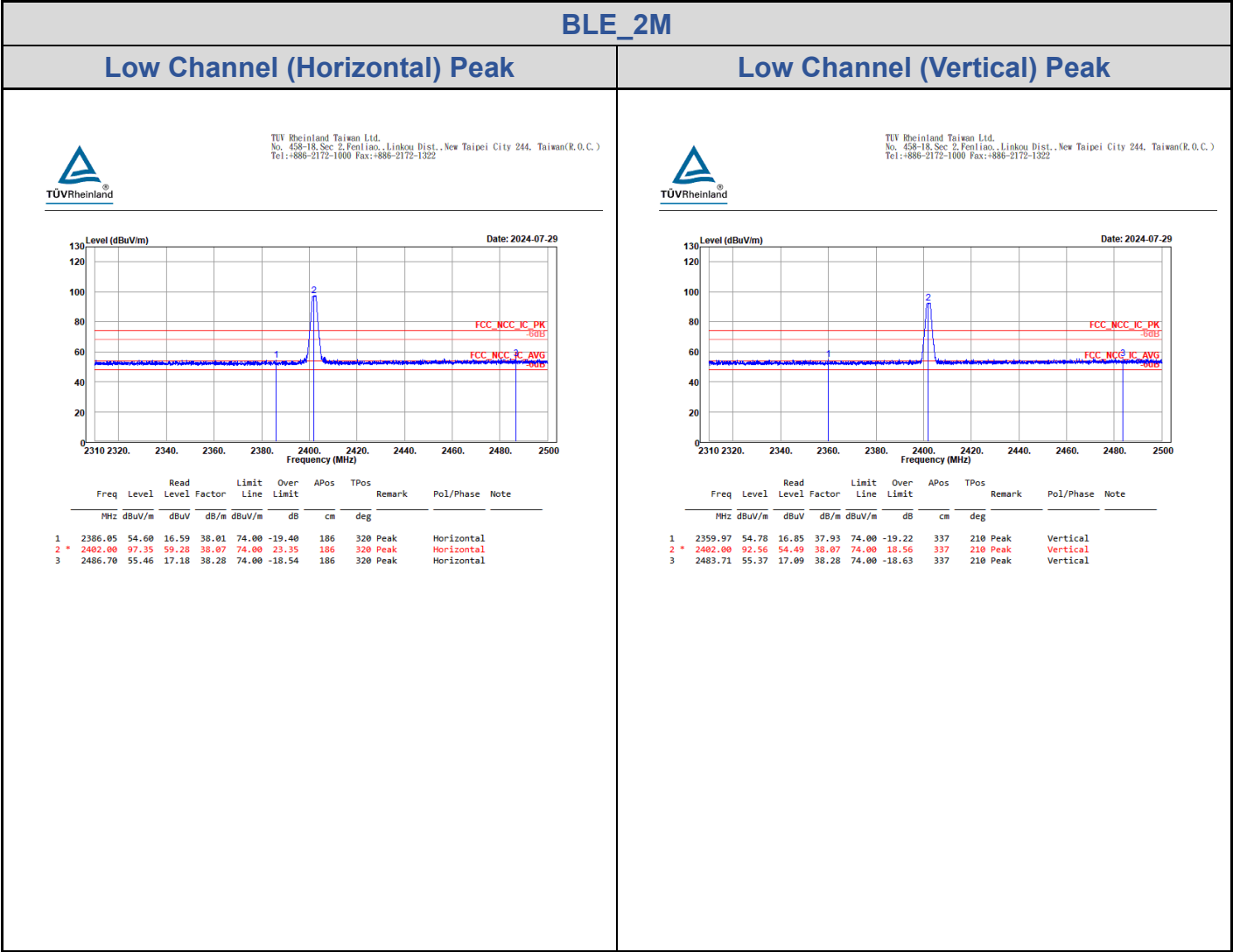


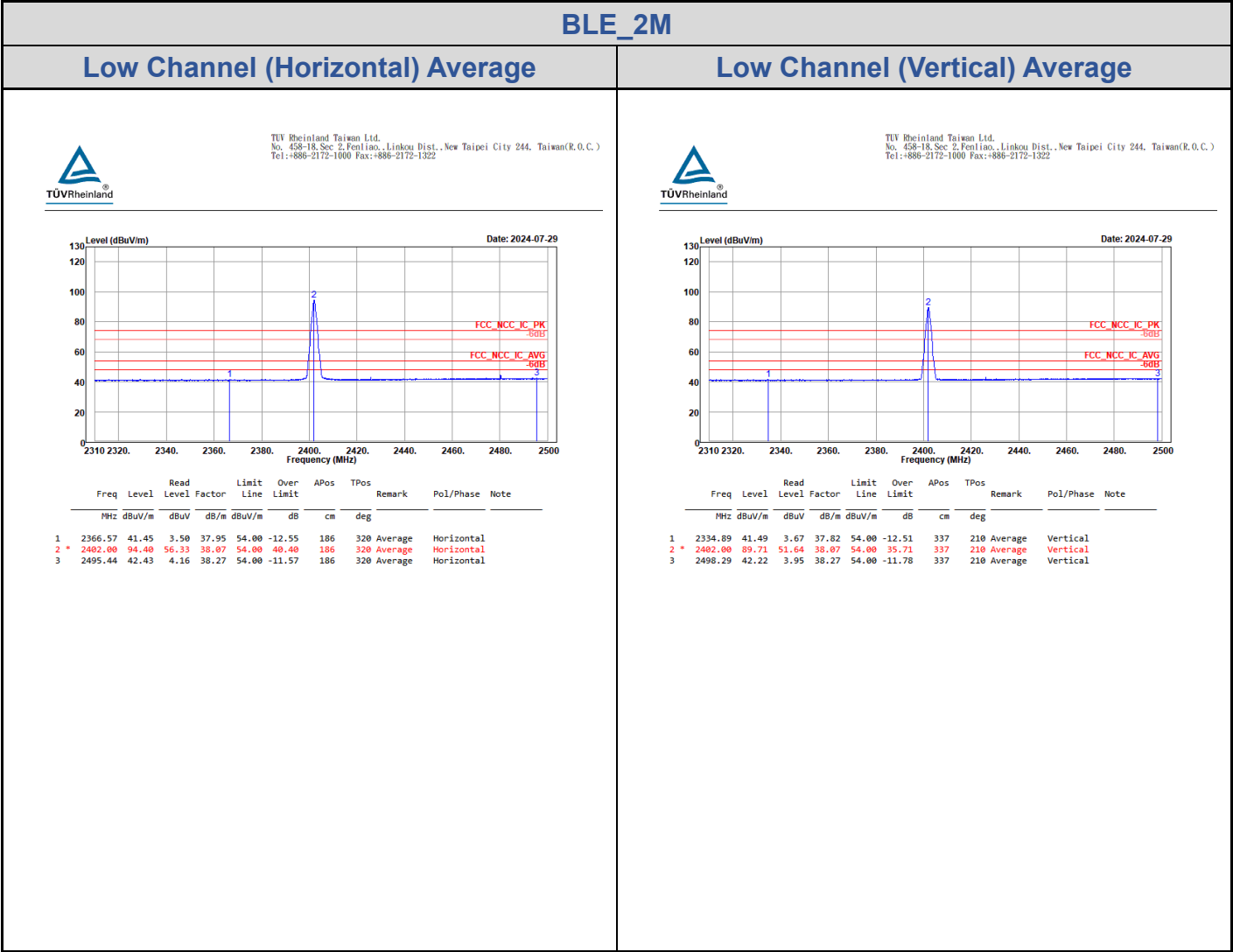
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	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2368.76	55.64	17.68	37.96	74.00	-18.36	332	184	Peak	Vertical	
2 *	2440.00	94.58	56.32	38.26	74.00	20.58	332	184	Peak	Vertical	
3	2495.58	55.67	17.40	38.27	74.00	-18.33	332	184	Peak	Vertical	









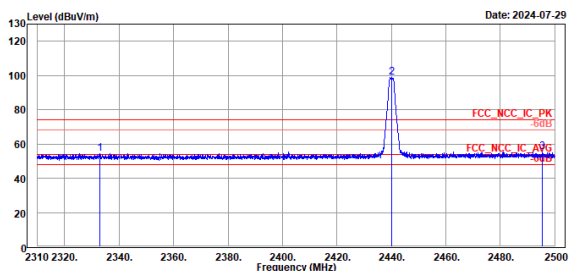


BLE_2M

Middle Channel (Horizontal) Peak



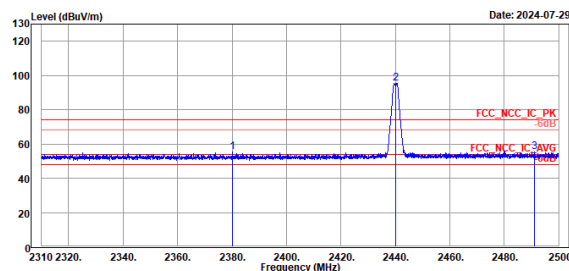
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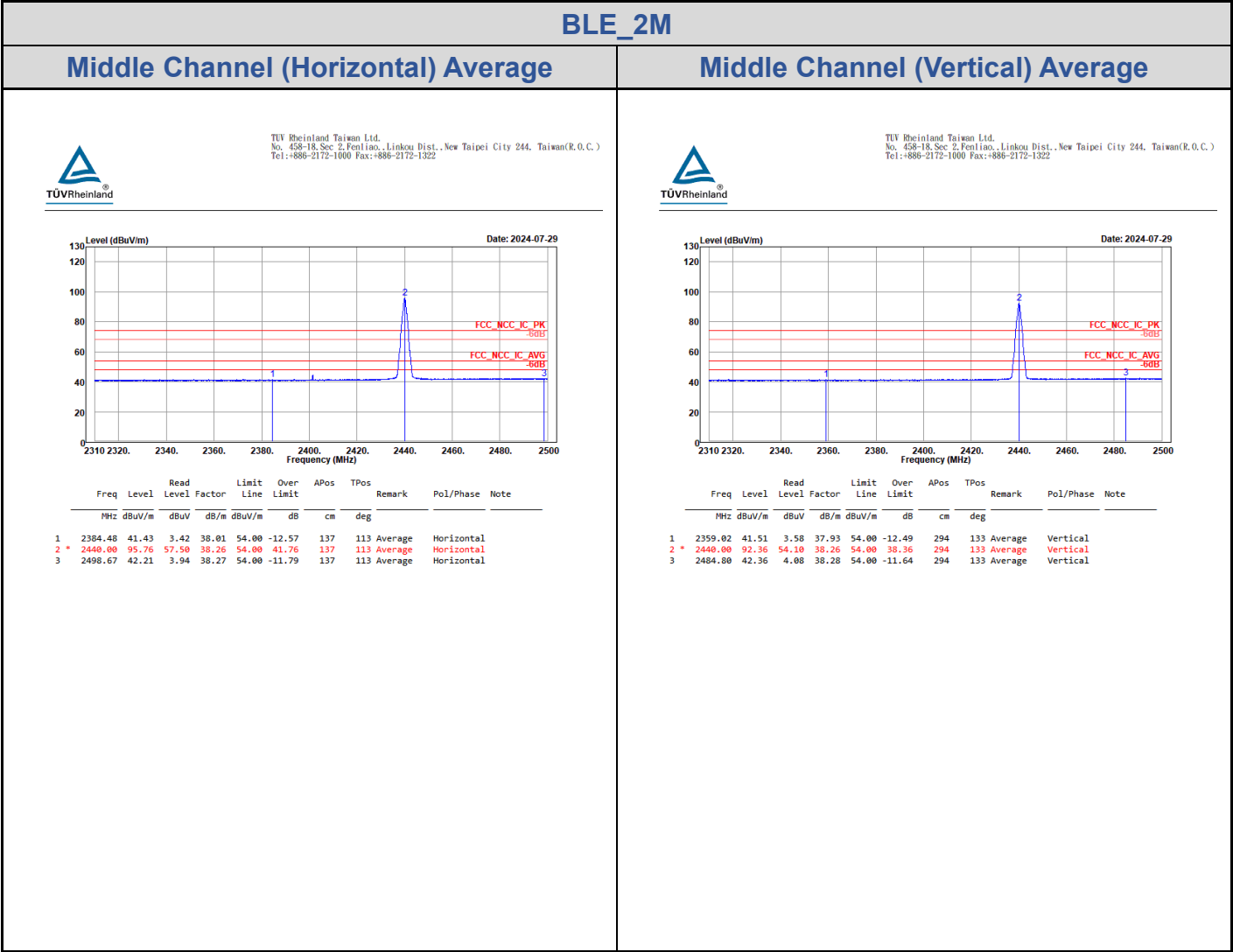
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1	2332.90	54.42	16.61	37.81	74.00	-19.58	137	113	Peak	Horizontal	
2 *	2448.00	98.63	60.37	38.26	74.00	24.63	137	113	Peak	Horizontal	
3	2495.54	55.37	17.10	38.27	74.00	-18.63	137	113	Peak	Horizontal	

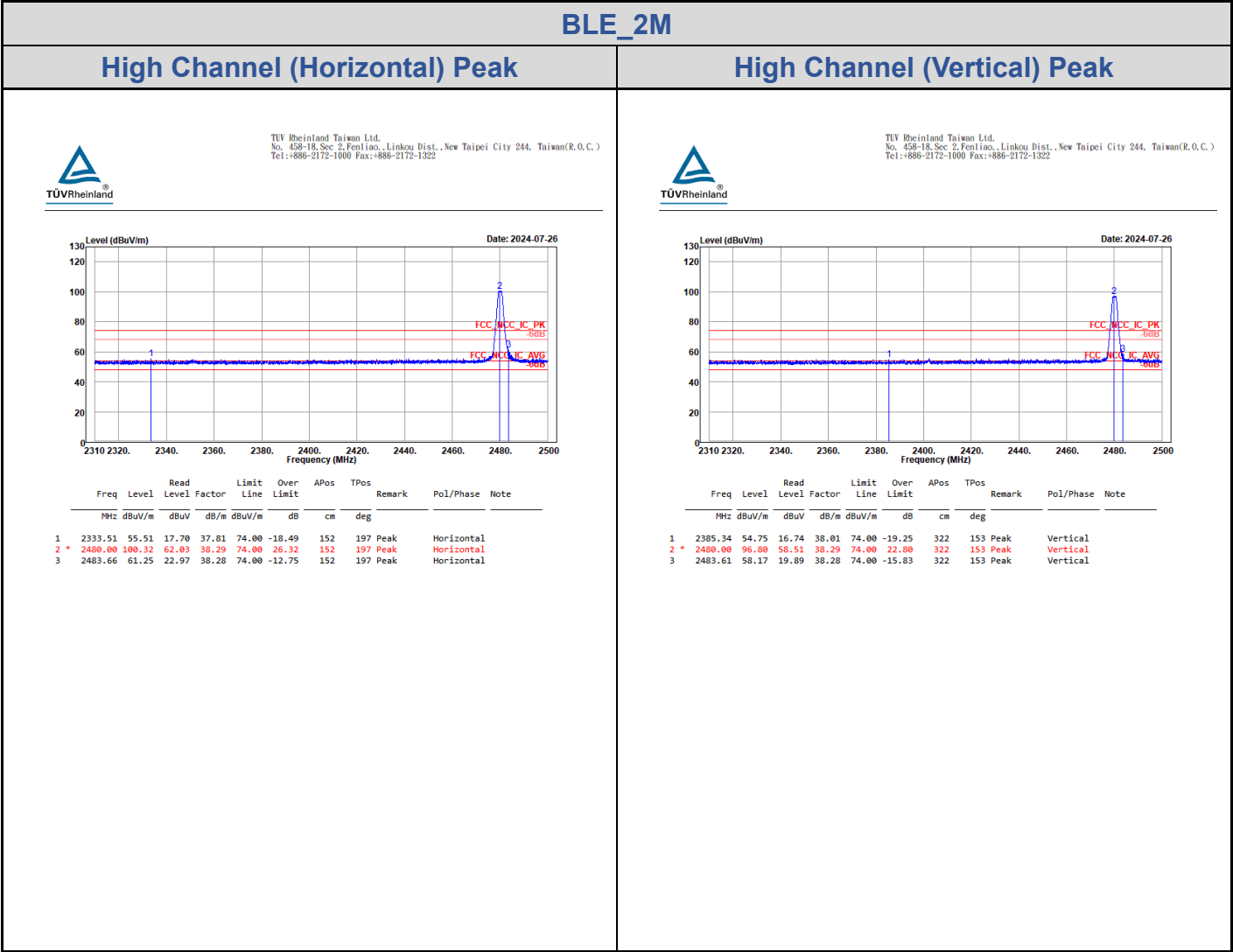


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	Freq	Level	Read dBuV	Factor	Limit Line	Over Limit	Apos	Tpos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2380.21	55.35	17.36	37.99	74.00	-18.65	294	133	Peak	Vertical	
2 *	2440.00	95.26	57.00	38.26	74.00	21.26	294	133	Peak	Vertical	
3	2491.21	55.53	17.25	38.28	74.00	-18.47	294	133	Peak	Vertical	



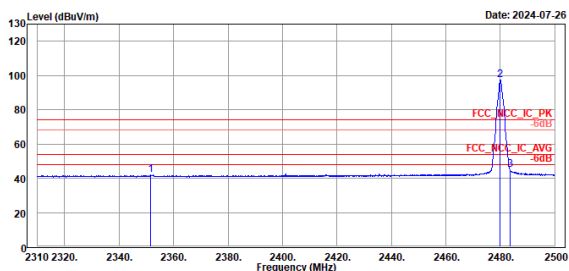


BLE_2M

High Channel (Horizontal) Average



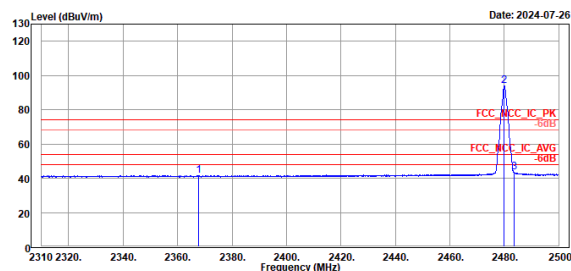
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	Freq	Level	Read dBuV	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz		dBuV/m		dBuV/m	dB	cm	deg			
1	2351.56	41.86	3.96	37.90	54.00	-12.14	152	197	Average	Horizontal	
2 *	2488.00	97.38	59.09	38.29	54.00	43.38	152	197	Average	Horizontal	
3	2483.50	45.05	6.77	38.28	54.00	-8.95	152	197	Average	Horizontal	



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	Freq	Level	Read Line	Factor	Limit Line	Over Limit	Apos	Tpos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	2367.62	41.69	3.73	37.96	54.00	-12.31	322	153	Average	Vertical	
2 *	2480.00	93.87	55.58	38.29	54.00	39.87	322	153	Average	Vertical	
3	2483.52	43.69	5.41	38.28	54.00	-10.31	322	153	Average	Vertical	

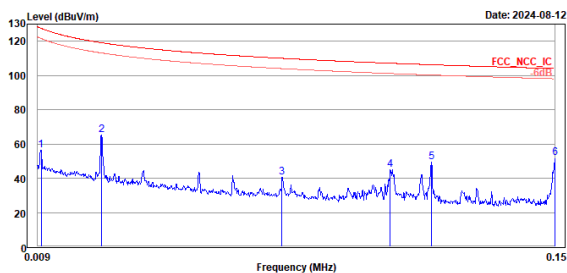
Spurious Emissions, Tx Mode, 9kHz ~ 30MHz

BLE 2M

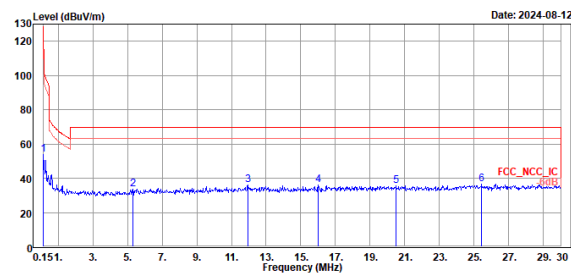
High Channel (Open) 9kHz~150kHz



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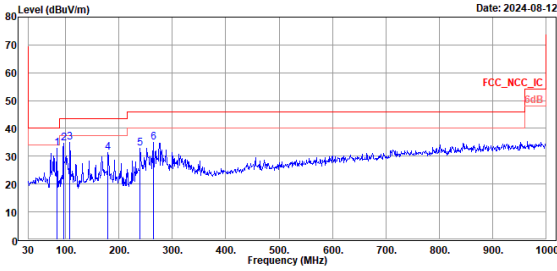
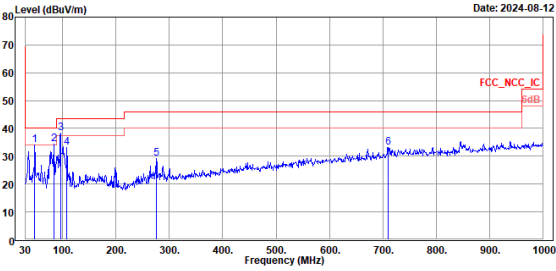
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	Freq	Level	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBu/mV	dBuV	dB/m	dBu/mV	dB	cm	deg			
1	0.15	53.72	34.68	18.84	104.08	-50.36	100	100	Peak	Open	
2	5.33	54.34	35.12	20.12	69.50	-35.35	100	132	Peak	Open	
3	11.94	36.03	14.39	21.61	69.50	-33.47	100	0	Peak	Open	
4	16.00	35.97	13.97	22.00	69.50	-33.53	100	7	Peak	Open	
5	20.51	35.61	13.85	22.56	69.50	-33.69	100	6	Peak	Open	
6	25.43	36.73	15.33	23.04	69.50	-32.77	100	134	Peak	Open	

Spurious Emissions, Tx Mode, 30MHz ~ 1GHz

BLE_2M																																																																																																																																																																																	
High Channel (Horizontal)	High Channel (Vertical)																																																																																																																																																																																
 TUV Rheinland Taiwan Ltd. No. 458-18, Sec 2, Fenliao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.) Tel: +886-2172-1000 Fax: +886-2172-1322  <table><tr><th>Freq</th><th>Level</th><th>Read Level</th><th>Factor</th><th>Limit Line</th><th>Over Limit</th><th>APos</th><th>TPos</th><th>Remark</th><th>Pol/Phase</th><th>Note</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dBuV/m</th><th>dB</th><th>cm</th><th>deg</th><th></th><th></th><th></th></tr><tr><td>1</td><td>83.35</td><td>32.77</td><td>44.56</td><td>-11.79</td><td>40.00</td><td>-7.23</td><td>100</td><td>206 Peak</td><td>Horizontal</td><td></td></tr><tr><td>2</td><td>95.96</td><td>34.62</td><td>46.25</td><td>-11.63</td><td>43.50</td><td>-8.88</td><td>100</td><td>195 Peak</td><td>Horizontal</td><td></td></tr><tr><td>3</td><td>107.00</td><td>35.02</td><td>44.99</td><td>-9.97</td><td>43.50</td><td>-8.48</td><td>100</td><td>205 Peak</td><td>Horizontal</td><td></td></tr><tr><td>4</td><td>179.38</td><td>31.27</td><td>37.95</td><td>-6.68</td><td>43.50</td><td>-12.23</td><td>100</td><td>101 Peak</td><td>Horizontal</td><td></td></tr><tr><td>5</td><td>239.52</td><td>32.90</td><td>39.67</td><td>-6.77</td><td>46.00</td><td>-13.10</td><td>100</td><td>147 Peak</td><td>Horizontal</td><td></td></tr><tr><td>6</td><td>263.77</td><td>34.85</td><td>41.30</td><td>-6.45</td><td>46.00</td><td>-11.15</td><td>100</td><td>141 Peak</td><td>Horizontal</td><td></td></tr></table>	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				1	83.35	32.77	44.56	-11.79	40.00	-7.23	100	206 Peak	Horizontal		2	95.96	34.62	46.25	-11.63	43.50	-8.88	100	195 Peak	Horizontal		3	107.00	35.02	44.99	-9.97	43.50	-8.48	100	205 Peak	Horizontal		4	179.38	31.27	37.95	-6.68	43.50	-12.23	100	101 Peak	Horizontal		5	239.52	32.90	39.67	-6.77	46.00	-13.10	100	147 Peak	Horizontal		6	263.77	34.85	41.30	-6.45	46.00	-11.15	100	141 Peak	Horizontal		 TUV Rheinland Taiwan Ltd. No. 458-18, Sec 2, Fenliao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.) Tel: +886-2172-1000 Fax: +886-2172-1322  <table><tr><th>Freq</th><th>Level</th><th>Read Level</th><th>Factor</th><th>Limit Line</th><th>Over Limit</th><th>APos</th><th>TPos</th><th>Remark</th><th>Pol/Phase</th><th>Note</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dBuV/m</th><th>dB</th><th>cm</th><th>deg</th><th></th><th></th><th></th></tr><tr><td>1</td><td>47.46</td><td>33.93</td><td>40.01</td><td>-6.08</td><td>40.00</td><td>-6.07</td><td>100</td><td>332 Peak</td><td>Vertical</td><td></td></tr><tr><td>2</td><td>83.35</td><td>34.27</td><td>46.06</td><td>-11.79</td><td>40.00</td><td>-5.73</td><td>100</td><td>45 Peak</td><td>Vertical</td><td></td></tr><tr><td>3</td><td>95.96</td><td>38.26</td><td>49.89</td><td>-11.63</td><td>43.50</td><td>-5.24</td><td>100</td><td>57 Peak</td><td>Vertical</td><td></td></tr><tr><td>4</td><td>107.00</td><td>33.16</td><td>43.13</td><td>-9.97</td><td>43.50</td><td>-10.34</td><td>100</td><td>66 Peak</td><td>Vertical</td><td></td></tr><tr><td>5</td><td>275.41</td><td>29.26</td><td>35.30</td><td>-6.04</td><td>46.00</td><td>-16.74</td><td>100</td><td>52 Peak</td><td>Vertical</td><td></td></tr><tr><td>6</td><td>709.97</td><td>33.09</td><td>30.53</td><td>2.56</td><td>46.00</td><td>-12.91</td><td>100</td><td>41 Peak</td><td>Vertical</td><td></td></tr></table>	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				1	47.46	33.93	40.01	-6.08	40.00	-6.07	100	332 Peak	Vertical		2	83.35	34.27	46.06	-11.79	40.00	-5.73	100	45 Peak	Vertical		3	95.96	38.26	49.89	-11.63	43.50	-5.24	100	57 Peak	Vertical		4	107.00	33.16	43.13	-9.97	43.50	-10.34	100	66 Peak	Vertical		5	275.41	29.26	35.30	-6.04	46.00	-16.74	100	52 Peak	Vertical		6	709.97	33.09	30.53	2.56	46.00	-12.91	100	41 Peak	Vertical	
Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note																																																																																																																																																																							
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg																																																																																																																																																																										
1	83.35	32.77	44.56	-11.79	40.00	-7.23	100	206 Peak	Horizontal																																																																																																																																																																								
2	95.96	34.62	46.25	-11.63	43.50	-8.88	100	195 Peak	Horizontal																																																																																																																																																																								
3	107.00	35.02	44.99	-9.97	43.50	-8.48	100	205 Peak	Horizontal																																																																																																																																																																								
4	179.38	31.27	37.95	-6.68	43.50	-12.23	100	101 Peak	Horizontal																																																																																																																																																																								
5	239.52	32.90	39.67	-6.77	46.00	-13.10	100	147 Peak	Horizontal																																																																																																																																																																								
6	263.77	34.85	41.30	-6.45	46.00	-11.15	100	141 Peak	Horizontal																																																																																																																																																																								
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MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg																																																																																																																																																																										
1	47.46	33.93	40.01	-6.08	40.00	-6.07	100	332 Peak	Vertical																																																																																																																																																																								
2	83.35	34.27	46.06	-11.79	40.00	-5.73	100	45 Peak	Vertical																																																																																																																																																																								
3	95.96	38.26	49.89	-11.63	43.50	-5.24	100	57 Peak	Vertical																																																																																																																																																																								
4	107.00	33.16	43.13	-9.97	43.50	-10.34	100	66 Peak	Vertical																																																																																																																																																																								
5	275.41	29.26	35.30	-6.04	46.00	-16.74	100	52 Peak	Vertical																																																																																																																																																																								
6	709.97	33.09	30.53	2.56	46.00	-12.91	100	41 Peak	Vertical																																																																																																																																																																								

Spurious Emissions, Tx Mode, 1GHz ~ 26.5GHz

BLE_1M

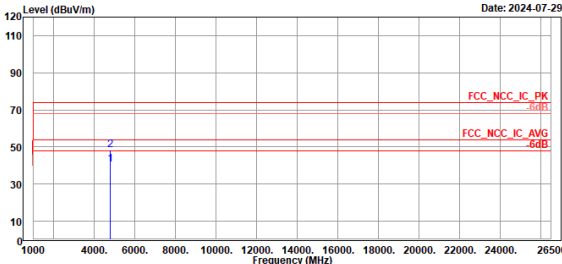
Low Channel (Horizontal)

TÜVRheinland

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Level (dBuV/m)

2024-07-29



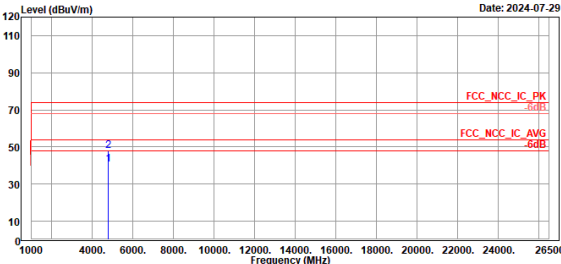
Freq	Level	Read Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	4804.00	40.74	48.97	-8.23	54.00	-13.26	100	72 Average	Horizontal	
2	4804.00	48.44	56.67	-8.23	74.00	-25.56	100	72 Peak	Horizontal	

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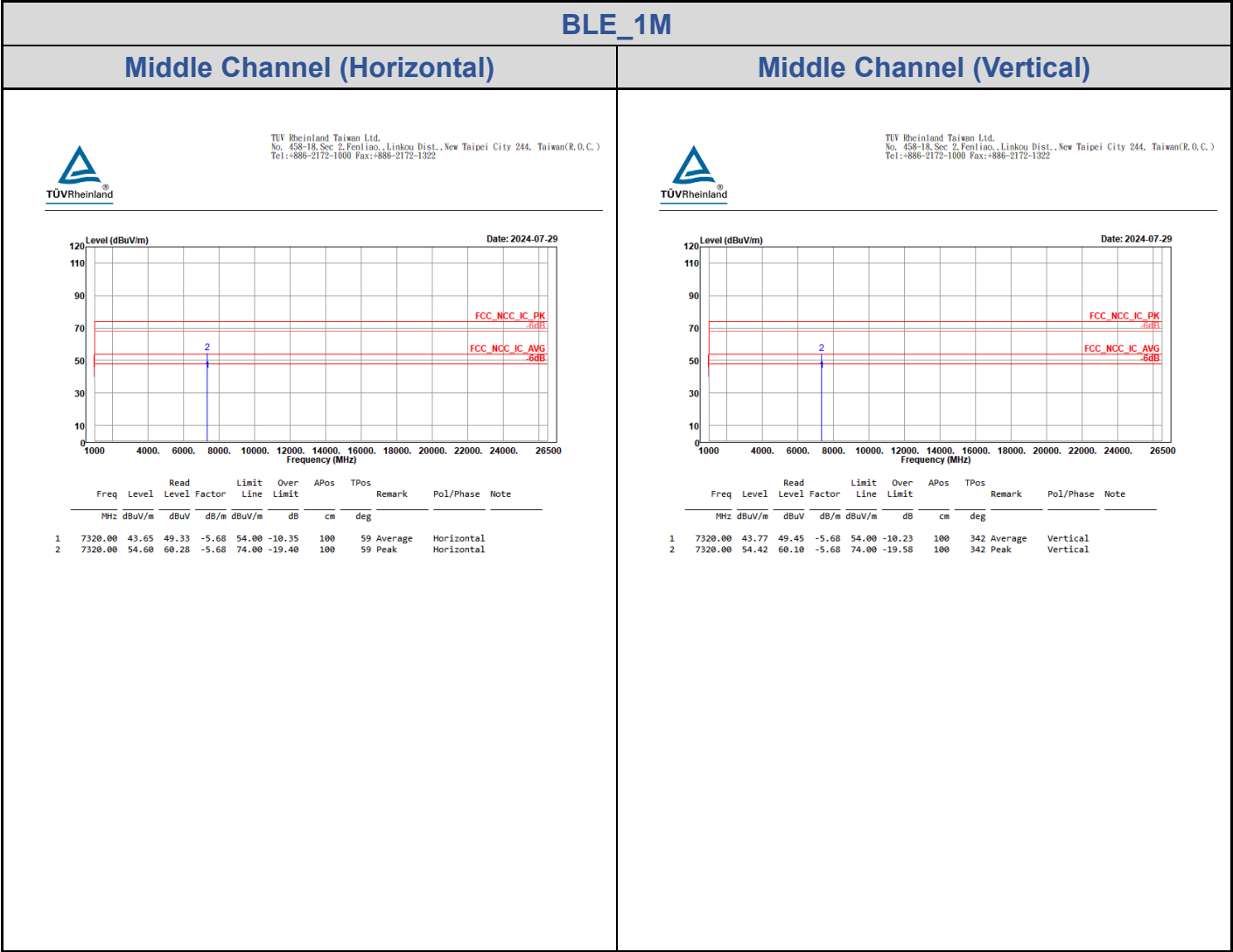
TÜV Rheinland Taiwan Ltd.
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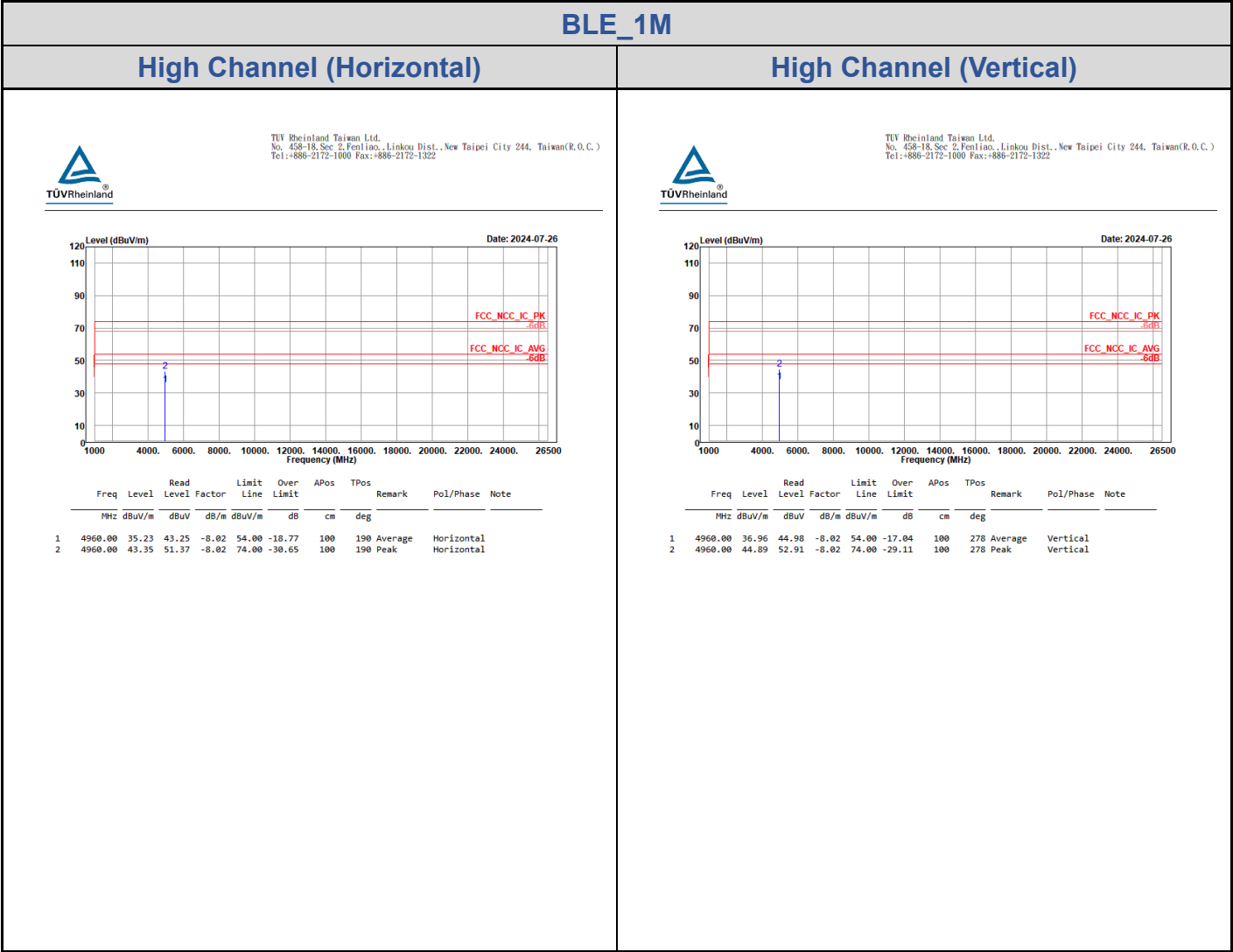
Level (dBuV/m)

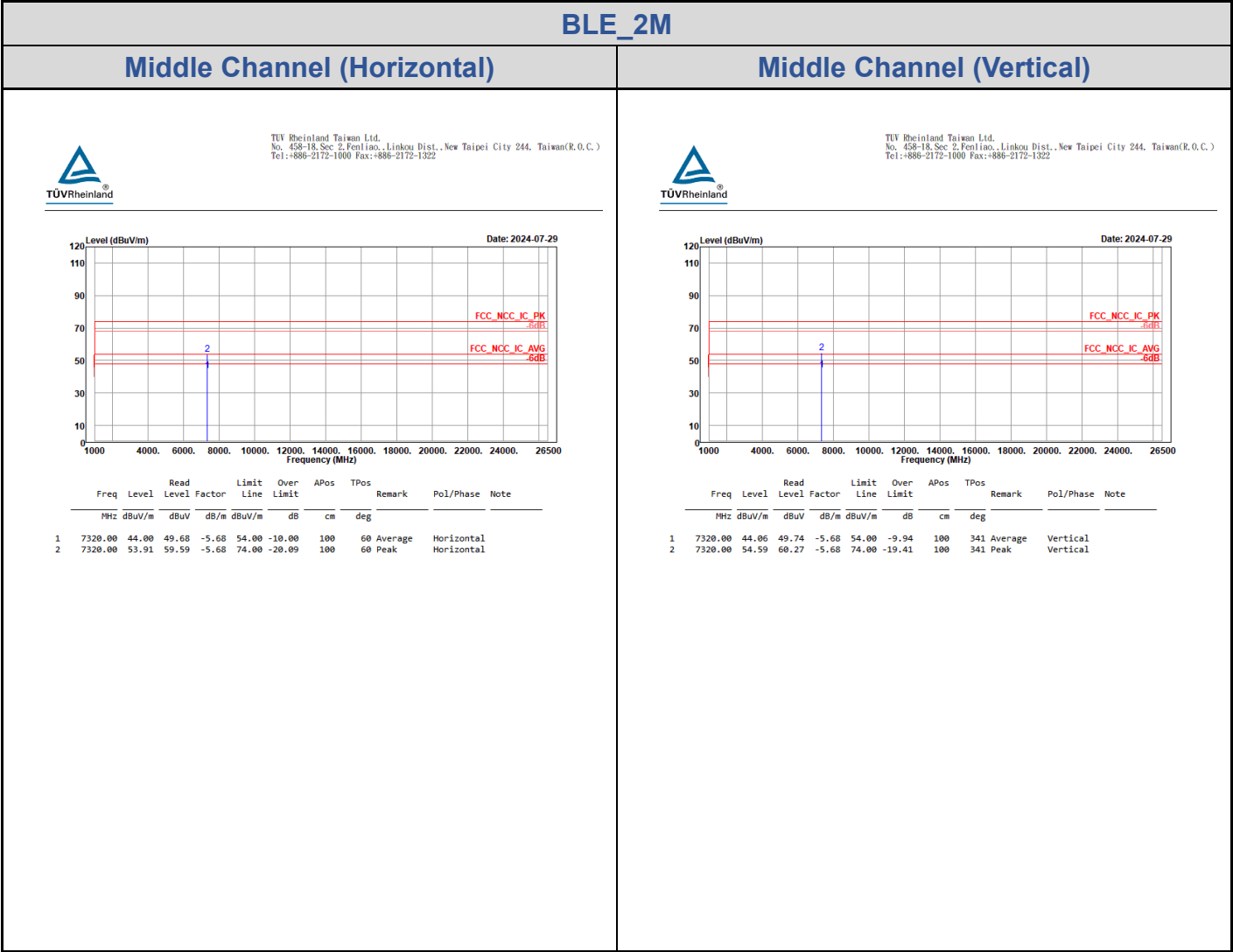
2024-07-29

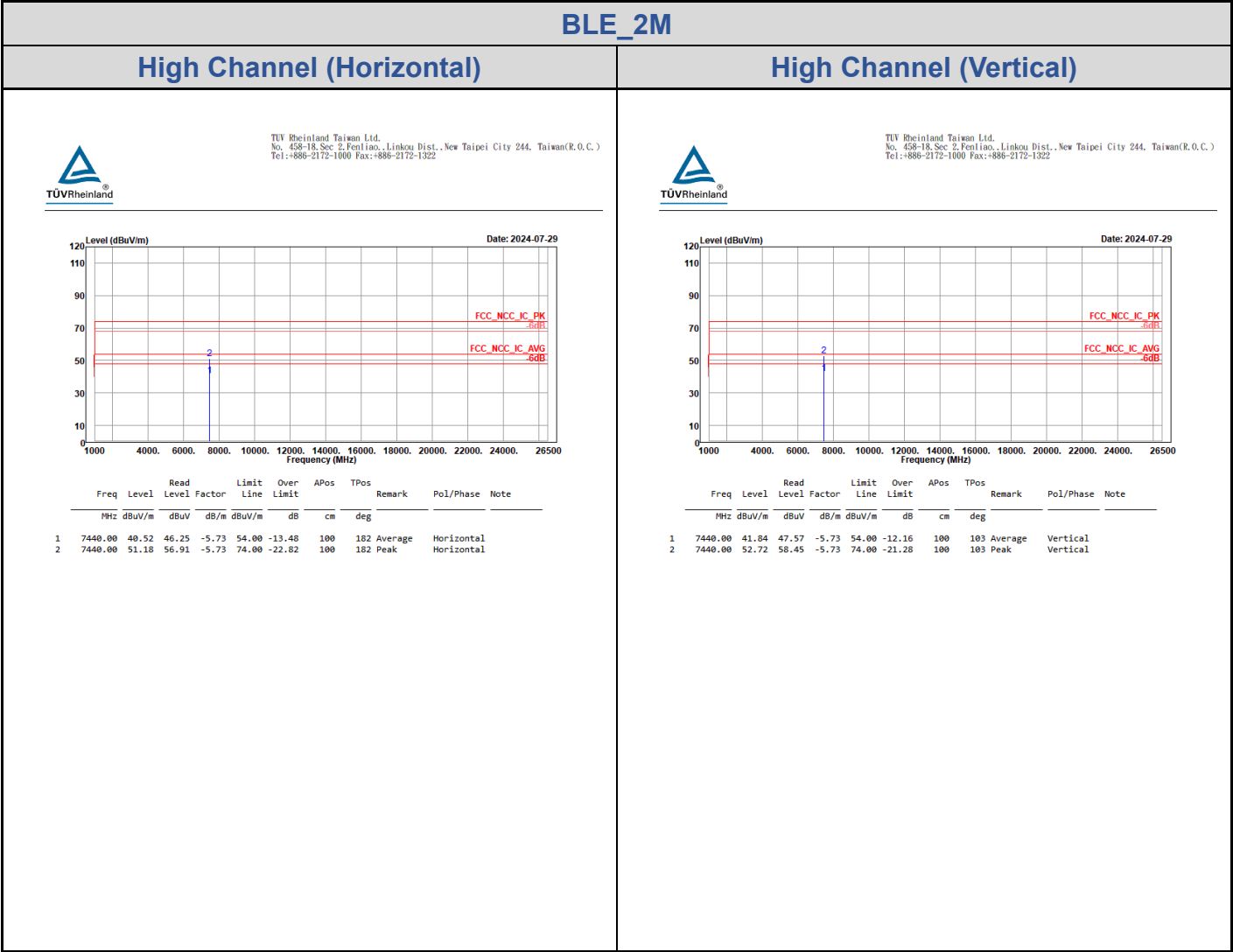


Freq	Level	Read Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	4804.00	40.66	48.89	-8.23	54.00	-13.34	100	275 Average	Vertical	
2	4804.00	47.83	56.06	-8.23	74.00	-26.17	100	275 Peak	Vertical	









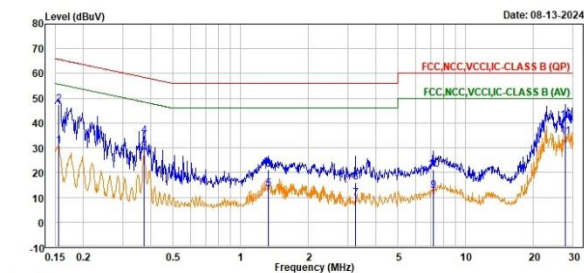
Mains Conducted Emission, Tx Mode, 150kHz ~ 30MHz

Worst Band

(Line)



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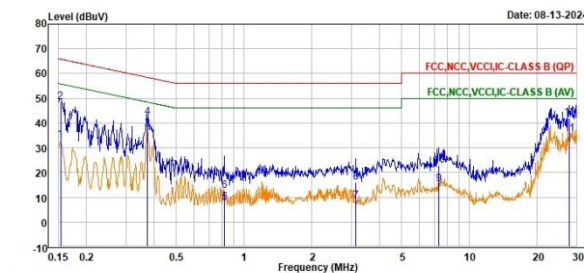


Trace:	Frequency (MHz)							
	Freq		Read Level Factor		Limit Line		Over-Remark	
	MHz	dBuV	dBuV	dB	dBuV	dB	Pol/Phase	Note
1	0.15	30.71	21.08	9.63	55.75	-25.04	Average	line1
2	0.15	47.36	37.73	9.63	65.75	-18.39	QP	line1
3	0.37	28.39	18.76	9.63	48.47	-29.70	Average	line1
4	0.37	44.37	25.04	9.63	58.47	-23.80	QP	line1
5	1.32	32.42	3.78	6.44	46.00	-32.58	Average	line1
6	1.32	10.99	11.35	9.64	56.00	-35.01	QP	line1
7	3.23	9.61	-0.87	6.68	46.00	-36.36	Average	line1
8	3.23	16.11	6.43	9.68	56.00	-39.89	QP	line1
9	7.18	12.47	2.74	9.73	50.00	-37.53	Average	line1
10	7.18	21.38	11.57	9.73	60.00	-38.70	QP	line1
11	27.84	34.45	24.75	9.74	68.00	-15.55	Average	line1
12	27.84	40.86	31.12	9.74	68.00	-19.14	QP	line1

(Neutral)



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Trace: 1	Frequency (MHz)								
	Freq	Level	Read Level	Factor	Limit	Over Limit	Remark	Pol/Phase	Note
	MHz	dBuV	dBuV		dBuV	dB			
1	0.15	33.15	23.52	9.63	55.83	-22.68	Average	neutral	
2	0.15	48.43	38.80	6.83	65.83	-17.48	QP	neutral	
3	0.37	37.51	27.68	9.63	68.47	-10.18	Average	neutral	
4	0.37	42.21	32.58	6.83	58.47	-16.26	QP	neutral	
5	0.82	7.74	-1.90	9.64	46.00	-38.26	Average	neutral	
6	0.82	12.45	2.61	9.64	56.00	-43.55	QP	neutral	
7	0.87	9.35	1.33	9.64	56.00	-46.37	Average	neutral	
8	3.14	16.12	6.44	9.68	56.00	-39.88	QP	neutral	
9	7.32	15.19	5.44	9.75	50.00	-34.81	Average	neutral	
10	7.32	22.75	13.00	9.75	60.00	-37.23	QP	neutral	
11	27.87	35.68	25.00	9.88	60.00	-16.48	Average	neutral	
12	27.84	42.17	32.29	9.88	60.00	-17.83	QP	neutral	