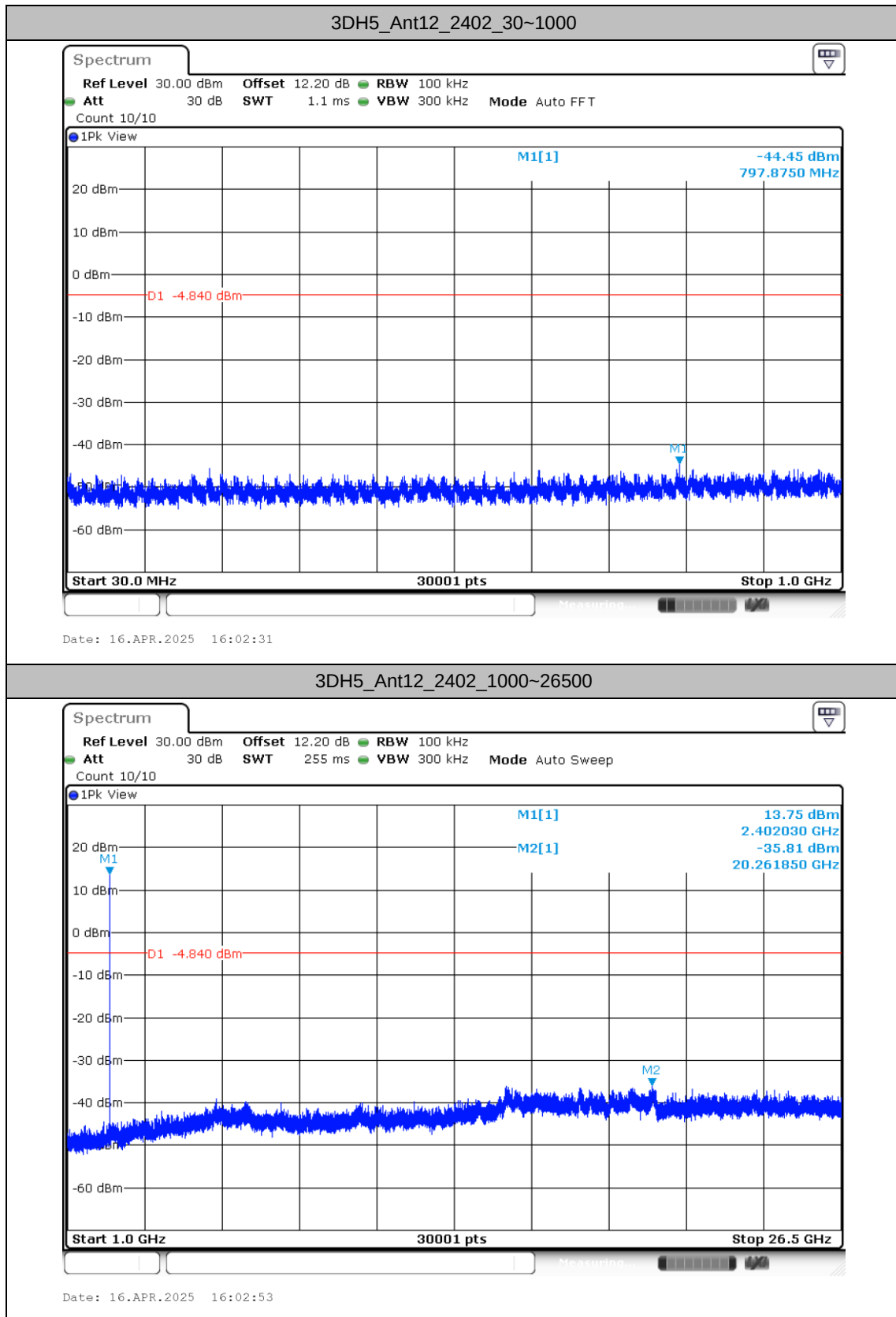
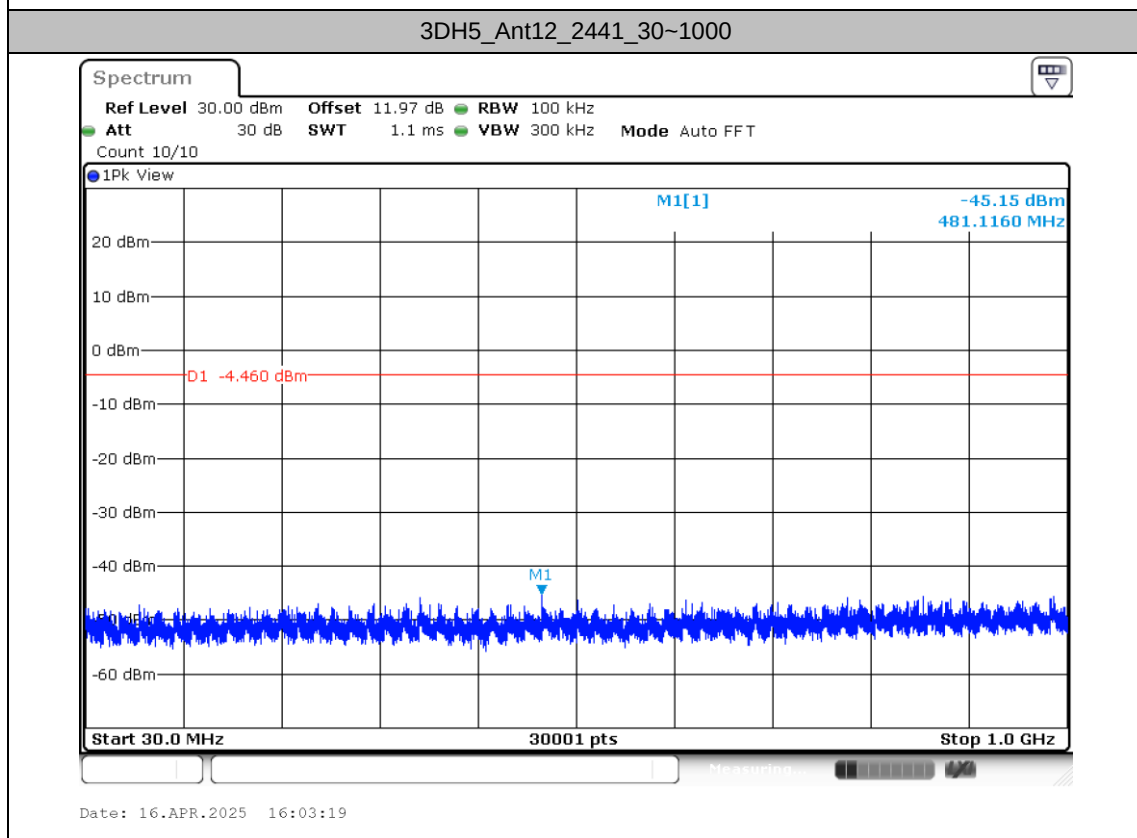
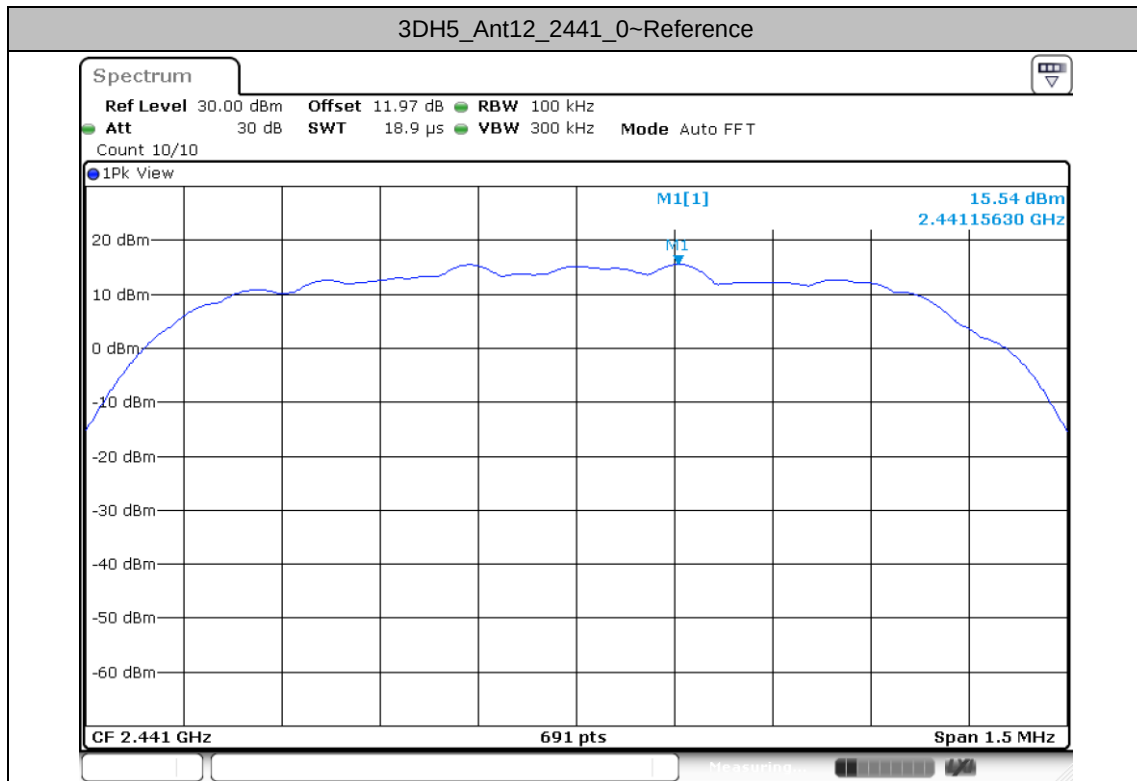
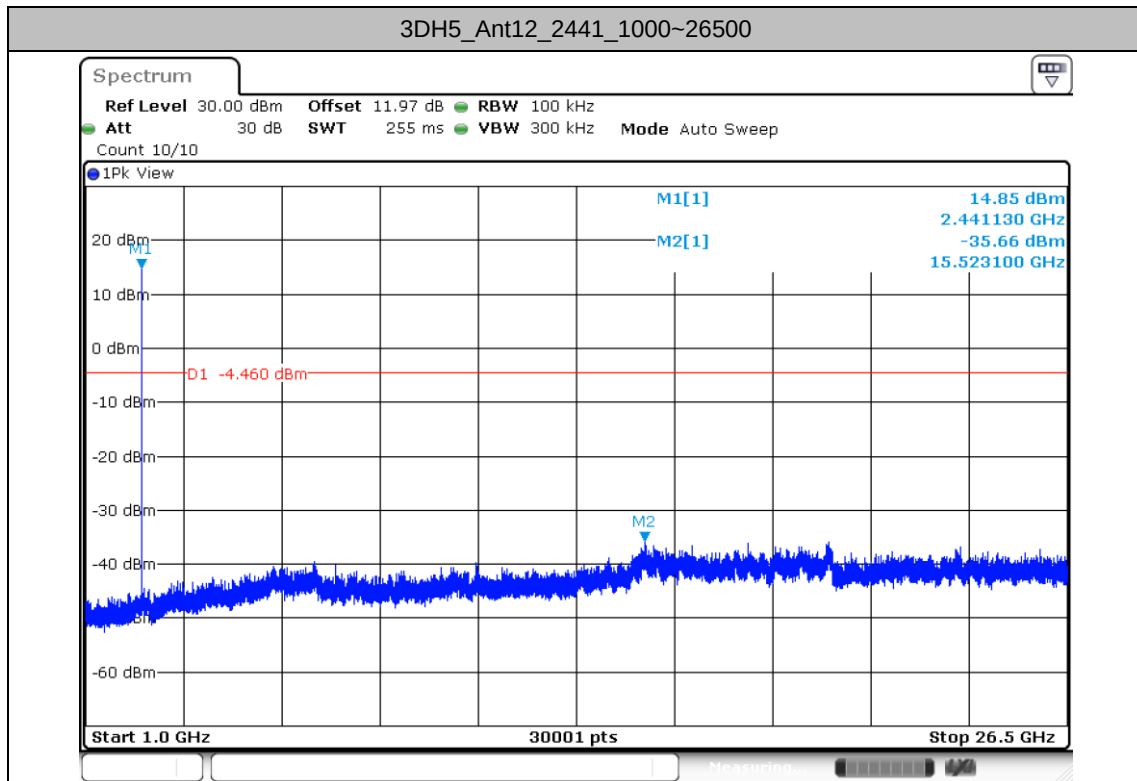
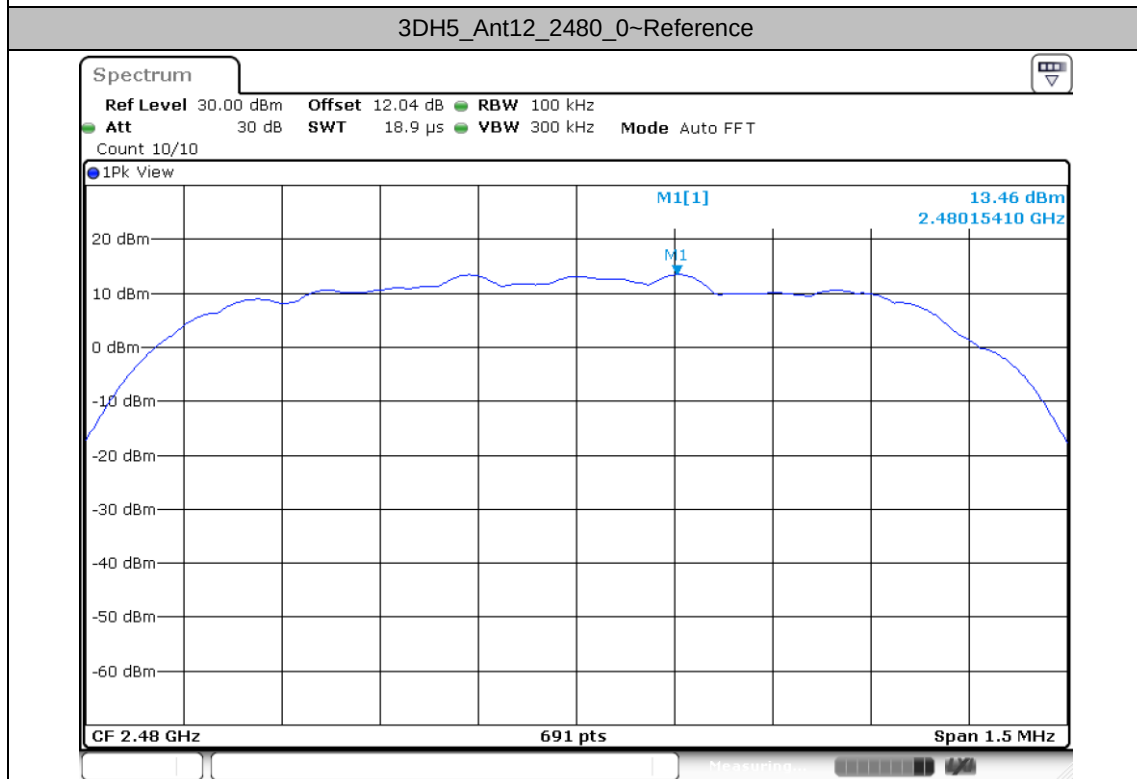




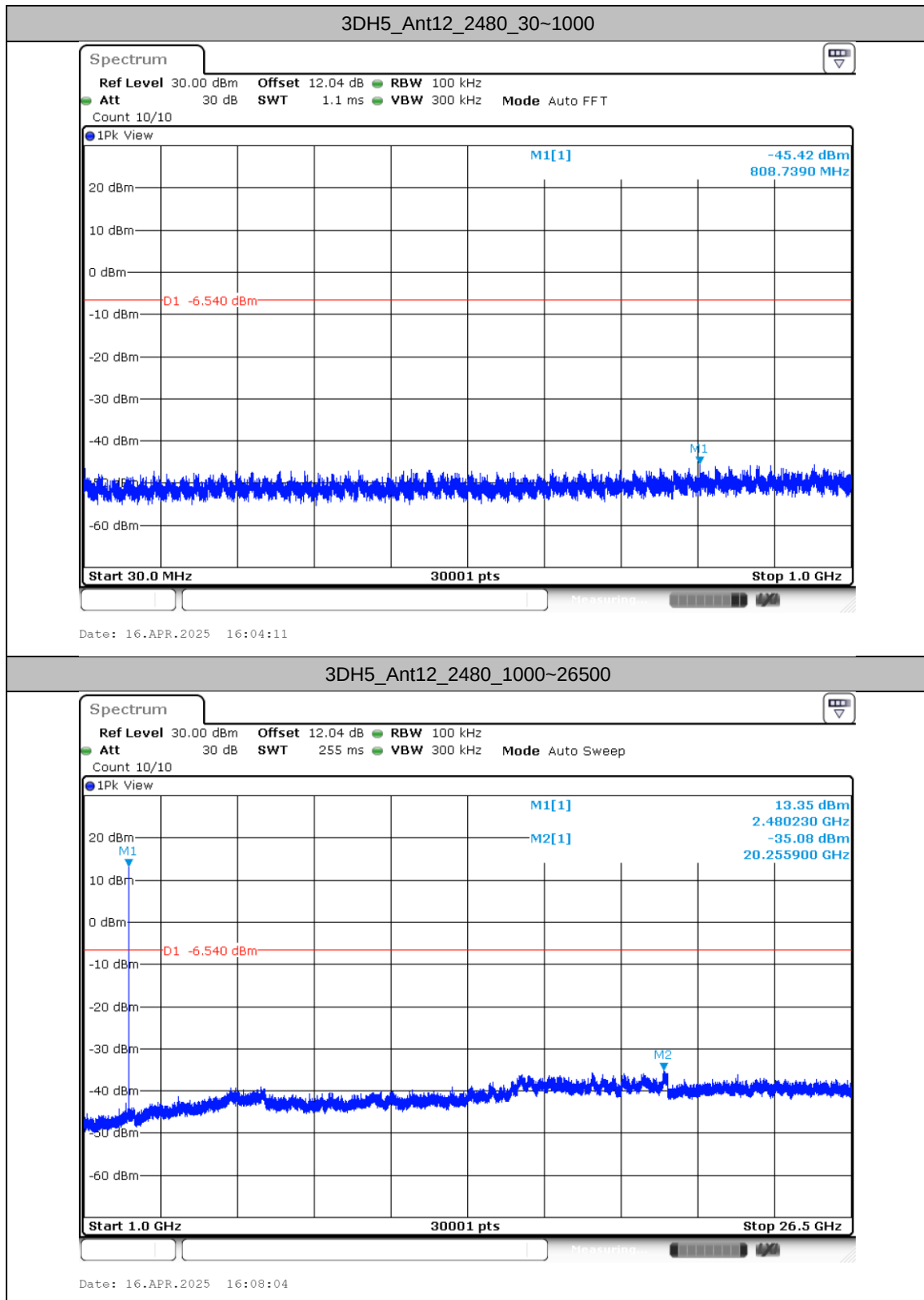




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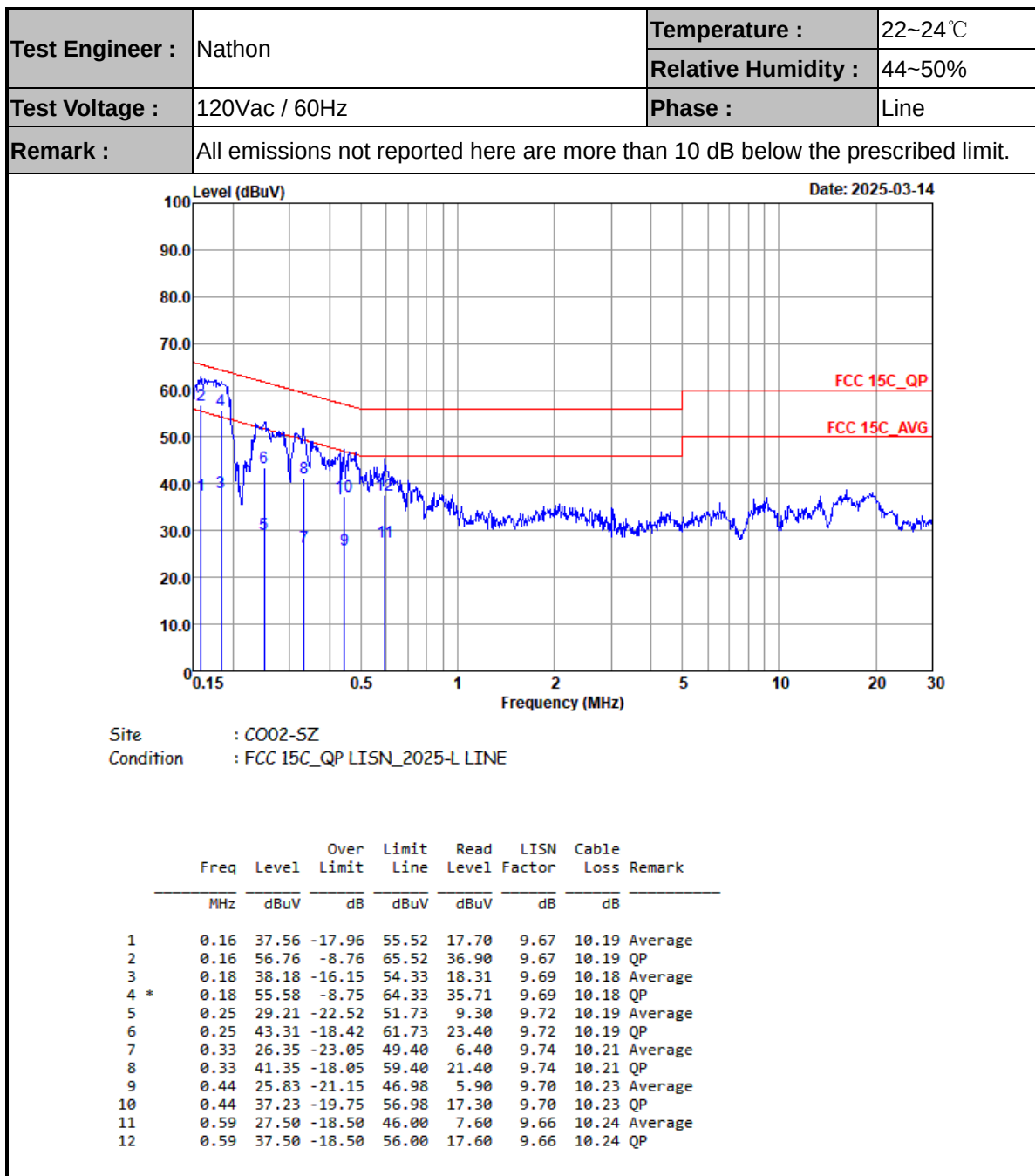


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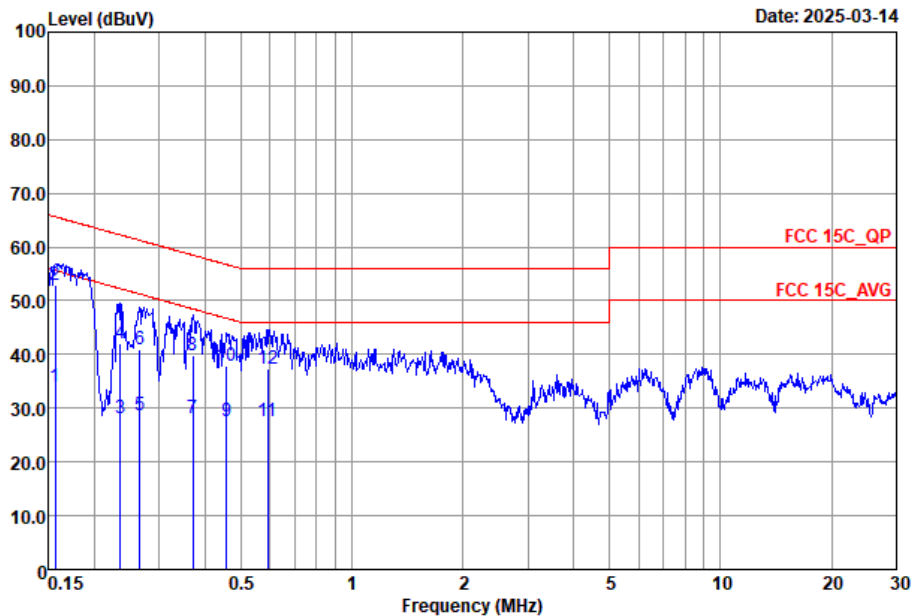


Appendix B. AC Conducted Emission Test Results





Test Engineer :	Nathon	Temperature :	22~24℃
		Relative Humidity :	44~50%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		



Site : CO02-SZ
Condition : FCC 15C_QP LISN_2025-N NEUTRAL

	Freq	Level	Over	Limit	Read	LISN	Cable	Remark
	MHz	dBuV	Limit	Line	Level	Factor	Loss	
			dB	dBuV	dBuV	dB	dB	
1	0.16	34.00	-21.65	55.65	14.19	9.62	10.19	Average
2 *	0.16	52.80	-12.85	65.65	32.99	9.62	10.19	QP
3	0.24	28.21	-24.05	52.26	8.40	9.62	10.19	Average
4	0.24	42.11	-20.15	62.26	22.30	9.62	10.19	QP
5	0.27	28.64	-22.61	51.25	8.80	9.64	10.20	Average
6	0.27	40.84	-20.41	61.25	21.00	9.64	10.20	QP
7	0.37	28.22	-20.25	48.47	8.30	9.70	10.22	Average
8	0.37	39.92	-18.55	58.47	20.00	9.70	10.22	QP
9	0.46	27.62	-19.14	46.76	7.41	9.98	10.23	Average
10	0.46	37.82	-18.94	56.76	17.61	9.98	10.23	QP
11	0.59	27.47	-18.53	46.00	7.59	9.64	10.24	Average
12	0.59	37.27	-18.73	56.00	17.39	9.64	10.24	QP

Note:

- Level(dBμV) = Read Level(dBμV) + LISN Factor(dB) + Cable Loss(dB)
- Over Limit(dB) = Level(dBμV) – Limit Line(dBμV)

Appendix C. Radiated Spurious Emission

Test Engineer :	Wenbo Xiao	Relative Humidity :	50%
		Temperature :	20°C~22°C

Radiated Spurious Emission Test Modes

Mode	Band (MHz)	Antenna	Modulation	Channel	Frequency	Data Rate	RU	Remark
Mode 1	2400-2483.5	12	Bluetooth BR_GFSK	00	2402	1DH5	-	-
Mode 2	2400-2483.5	12	Bluetooth BR_GFSK	39	2441	1DH5	-	-
Mode 3	2400-2483.5	12	Bluetooth BR_GFSK	78	2480	1DH5	-	-
Mode 4	2400-2483.5	12	Bluetooth BR_GFSK-LF	78	2480	1DH5	-	LF

Summary of each worse mode

Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	Remark
1	Bluetooth BR_GFSK	00	2381.51	43.82	74.00	-30.18	H	PEAK	Pass	Band Edge
	Bluetooth BR_GFSK	00	4804.00	43.71	74.00	-30.29	V	Peak	Pass	Harmonic
2	Bluetooth BR_GFSK	39	-	-	-	-	-	-	-	Band Edge
	Bluetooth BR_GFSK	39	7323.00	44.94	74.00	-29.06	V	Peak	Pass	Harmonic
3	Bluetooth BR_GFSK	78	2484.25	45.73	74.00	-28.27	V	PEAK	Pass	Band Edge
	Bluetooth BR_GFSK	78	7440.00	45.88	74.00	-28.12	V	Peak	Pass	Harmonic
4	Bluetooth BR_GFSK-LF	78	32.91	26.55	40.00	-13.45	V	Peak	Pass	LF



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	Band Edge																																																																											
	2400-2483.5_Bluetooth BR_GFSK_CH00_2402MHz																																																																											
ANT	12																																																																											
Pol.	Horizontal					Fundamental																																																																						
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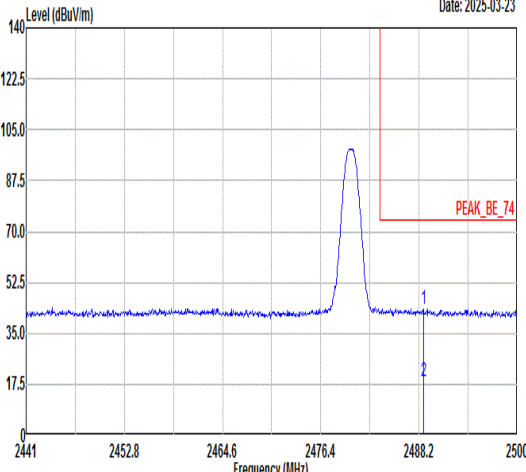
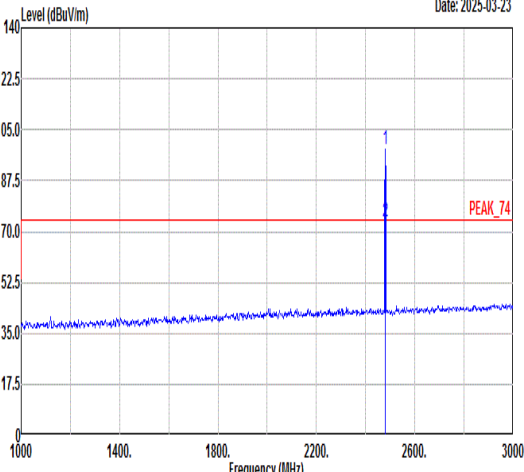


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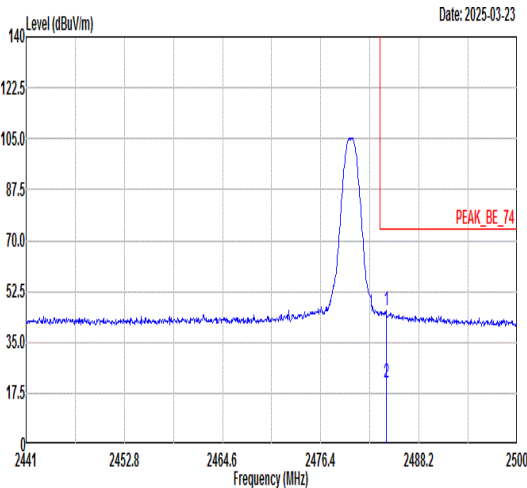
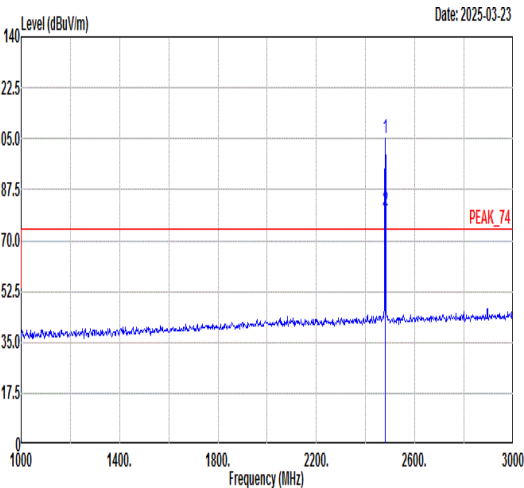


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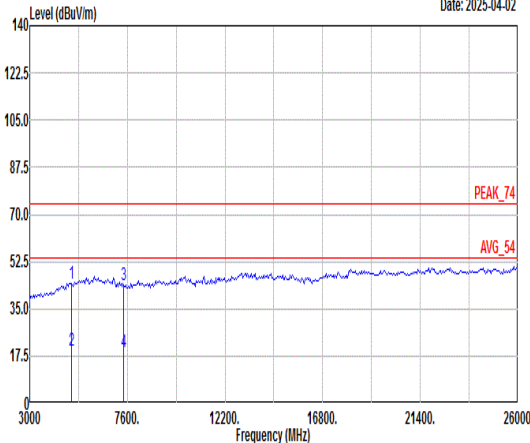
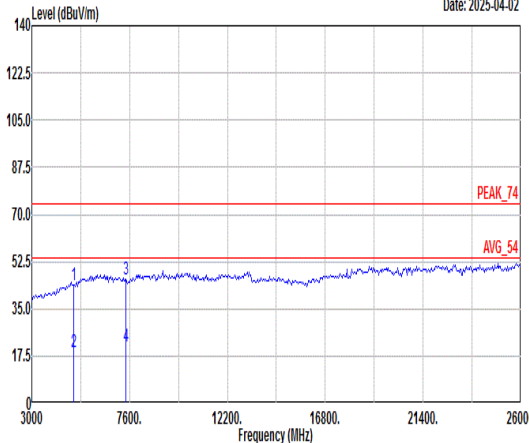


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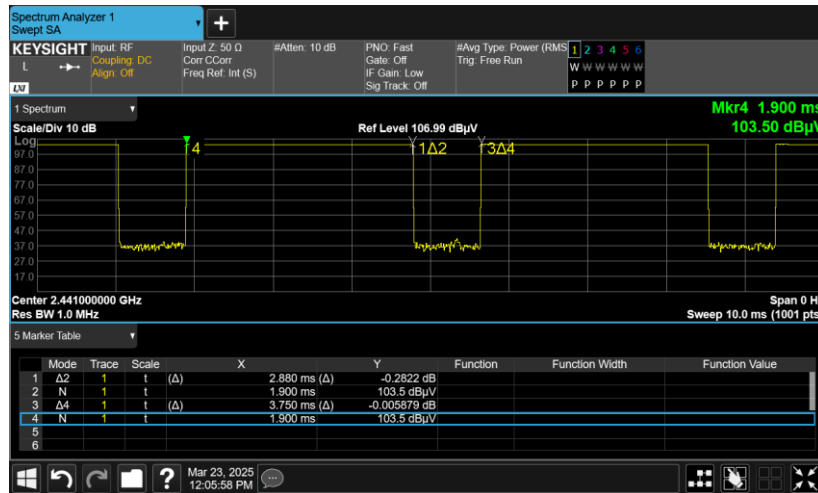
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1	4960.00	44.23	74.00	-29.77	63.94	36.64	8.46	64.81	---	---	Peak																																																																																																																																																									
2	4960.00	19.44	54.00	-34.56	39.15	36.64	8.46	64.81	---	---	Average																																																																																																																																																									
3	7440.00	43.73	74.00	-30.27	61.77	36.76	10.17	64.97	---	---	Peak																																																																																																																																																									
4	7440.00	18.94	54.00	-35.06	36.98	36.76	10.17	64.97	---	---	Average																																																																																																																																																									
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1	4960.00	43.89	74.00	-30.11	63.60	36.64	8.46	64.81	---	---	Peak																																																																																																																																																									
2	4960.00	19.10	54.00	-34.90	38.81	36.64	8.46	64.81	---	---	Average																																																																																																																																																									
3	7440.00	45.88	74.00	-28.12	63.92	36.76	10.17	64.97	---	---	Peak																																																																																																																																																									
4	7440.00	21.09	54.00	-32.91	39.13	36.76	10.17	64.97	---	---	Average																																																																																																																																																									



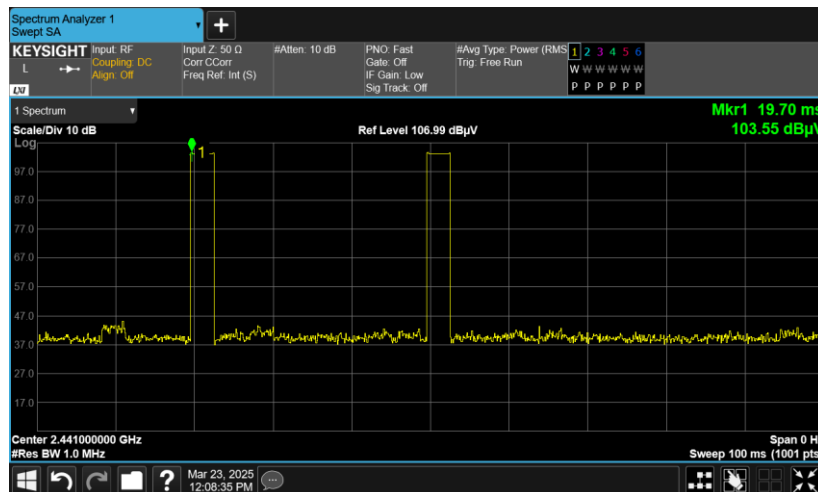
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	2400-2483.5_Bluetooth BR_GFSK-LF_CH78_2480MHz																																																																																																																																																																													
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	<table><tr><th></th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>APos</th><th>TPos</th><th>Remark</th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Margin</th><th>Level</th><th>Factor</th><th>Loss Factor</th><th></th><th></th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm deg</th></tr><tr><td>1</td><td>30.00</td><td>22.28</td><td>40.00</td><td>-17.72</td><td>27.96</td><td>25.29</td><td>0.53</td><td>31.50 --- Peak</td></tr><tr><td>2</td><td>101.78</td><td>18.98</td><td>43.50</td><td>-24.52</td><td>33.27</td><td>16.38</td><td>1.03</td><td>31.70 --- Peak</td></tr><tr><td>3</td><td>155.13</td><td>21.58</td><td>43.50</td><td>-21.92</td><td>35.12</td><td>16.78</td><td>1.27</td><td>31.59 --- Peak</td></tr><tr><td>4</td><td>292.87</td><td>28.49</td><td>46.00</td><td>-17.51</td><td>38.97</td><td>19.33</td><td>1.78</td><td>31.59 --- Peak</td></tr><tr><td>5</td><td>559.62</td><td>27.12</td><td>46.00</td><td>-18.88</td><td>28.88</td><td>27.02</td><td>2.48</td><td>31.26 --- Peak</td></tr><tr><td>6</td><td>858.38</td><td>30.09</td><td>46.00</td><td>-15.91</td><td>28.84</td><td>29.22</td><td>3.07</td><td>31.04 --- Peak</td></tr></table>							Limit	Read	Ant	Cable	Preamp	APos	TPos	Remark	Freq	Level	Line	Margin	Level	Factor	Loss Factor			MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm deg	1	30.00	22.28	40.00	-17.72	27.96	25.29	0.53	31.50 --- Peak	2	101.78	18.98	43.50	-24.52	33.27	16.38	1.03	31.70 --- Peak	3	155.13	21.58	43.50	-21.92	35.12	16.78	1.27	31.59 --- Peak	4	292.87	28.49	46.00	-17.51	38.97	19.33	1.78	31.59 --- Peak	5	559.62	27.12	46.00	-18.88	28.88	27.02	2.48	31.26 --- Peak	6	858.38	30.09	46.00	-15.91	28.84	29.22	3.07	31.04 --- Peak	<table><tr><th></th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>APos</th><th>TPos</th><th>Remark</th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Margin</th><th>Level</th><th>Factor</th><th>Loss Factor</th><th></th><th></th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm deg</th></tr><tr><td>1</td><td>32.91</td><td>26.55</td><td>40.00</td><td>-13.45</td><td>33.87</td><td>23.75</td><td>0.55</td><td>31.62 --- Peak</td></tr><tr><td>2</td><td>157.07</td><td>26.42</td><td>43.50</td><td>-17.08</td><td>40.06</td><td>16.67</td><td>1.28</td><td>31.59 --- Peak</td></tr><tr><td>3</td><td>292.87</td><td>25.28</td><td>46.00</td><td>-20.72</td><td>35.76</td><td>19.33</td><td>1.78</td><td>31.59 --- Peak</td></tr><tr><td>4</td><td>556.71</td><td>27.35</td><td>46.00</td><td>-18.65</td><td>29.20</td><td>26.95</td><td>2.47</td><td>31.27 --- Peak</td></tr><tr><td>5</td><td>802.12</td><td>30.35</td><td>46.00</td><td>-15.65</td><td>29.79</td><td>28.72</td><td>2.94</td><td>31.10 --- Peak</td></tr><tr><td>6</td><td>969.93</td><td>32.75</td><td>54.00</td><td>-21.25</td><td>28.62</td><td>31.66</td><td>3.26</td><td>30.79 --- Peak</td></tr></table>							Limit	Read	Ant	Cable	Preamp	APos	TPos	Remark	Freq	Level	Line	Margin	Level	Factor	Loss Factor			MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm deg	1	32.91	26.55	40.00	-13.45	33.87	23.75	0.55	31.62 --- Peak	2	157.07	26.42	43.50	-17.08	40.06	16.67	1.28	31.59 --- Peak	3	292.87	25.28	46.00	-20.72	35.76	19.33	1.78	31.59 --- Peak	4	556.71	27.35	46.00	-18.65	29.20	26.95	2.47	31.27 --- Peak	5	802.12	30.35	46.00	-15.65	29.79	28.72	2.94	31.10 --- Peak	6	969.93	32.75	54.00	-21.25	28.62	31.66	3.26	30.79 --- Peak
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Appendix D. Duty Cycle Plots

DH5 on time (One Pulse) Plot on Channel 39



DH5 on time (Count Pulses) Plot on Channel 39



Note:

1. Worst case Duty cycle = on time/100 milliseconds = $2 * 2.88 / 100 = 5.76 \%$
2. Worst case Duty cycle correction factor = $20 * \log(\text{Duty cycle}) = -24.79 \text{ dB}$
3. DH5 has the highest duty cycle worst case and is reported.