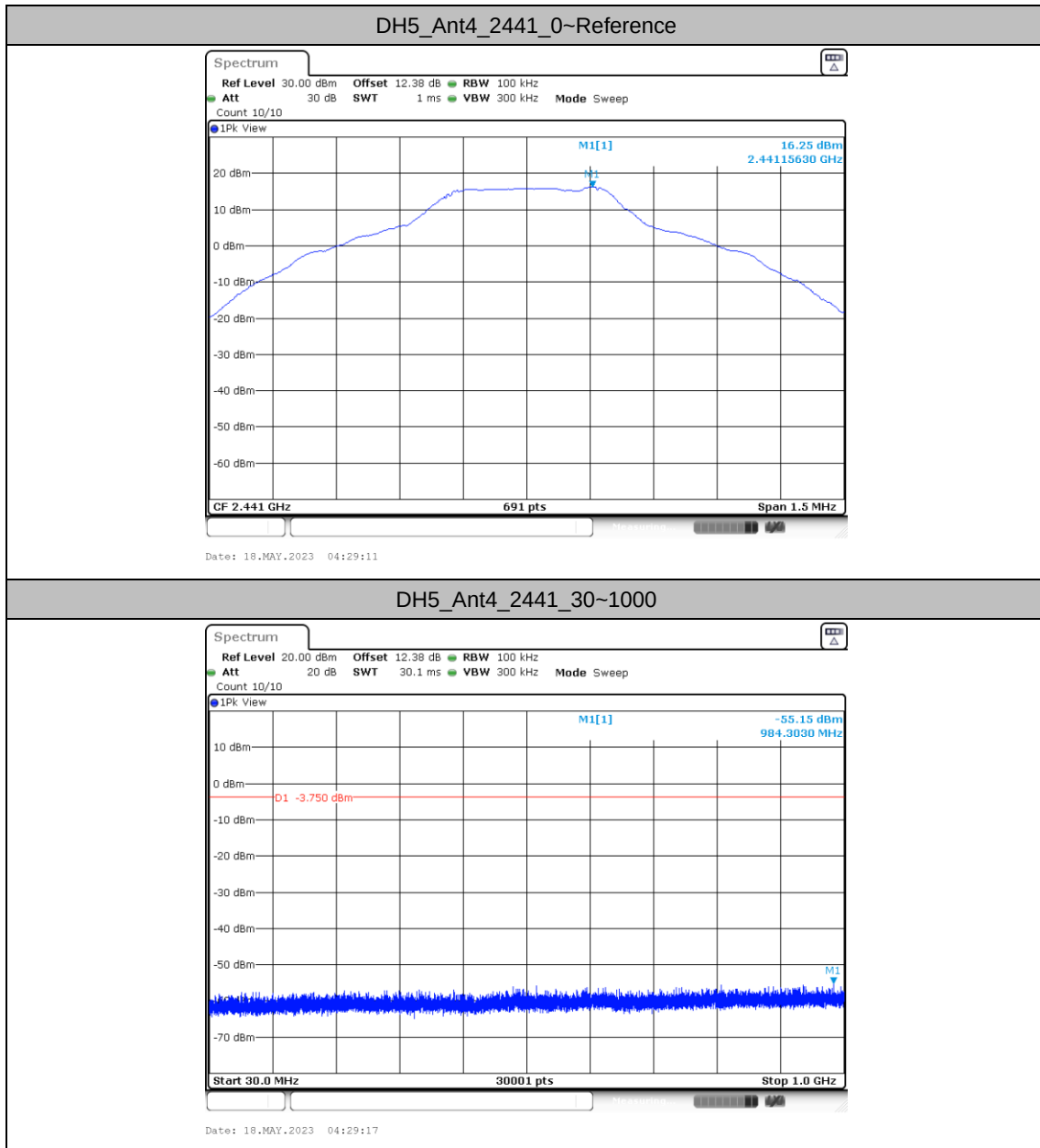
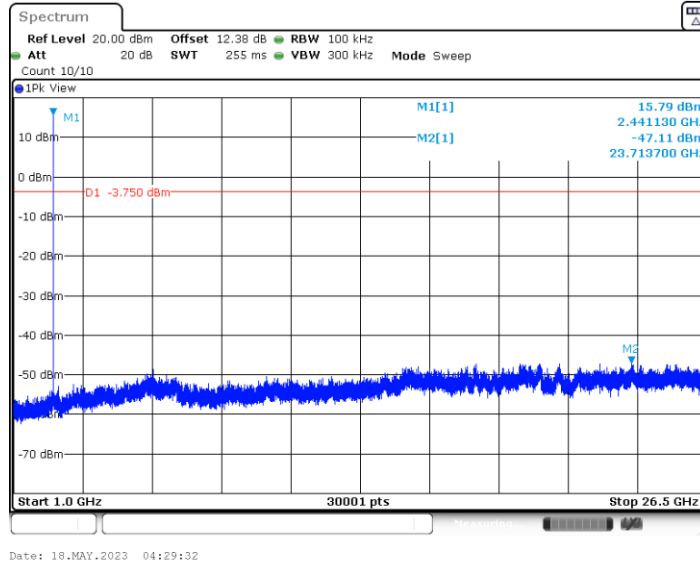


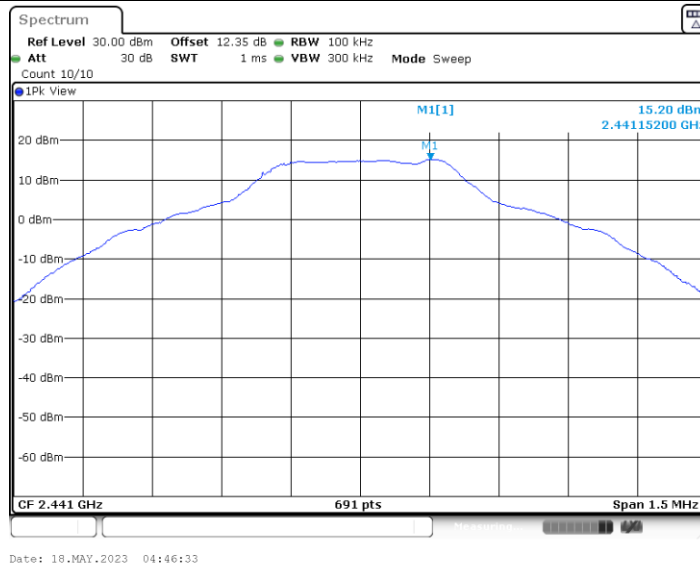


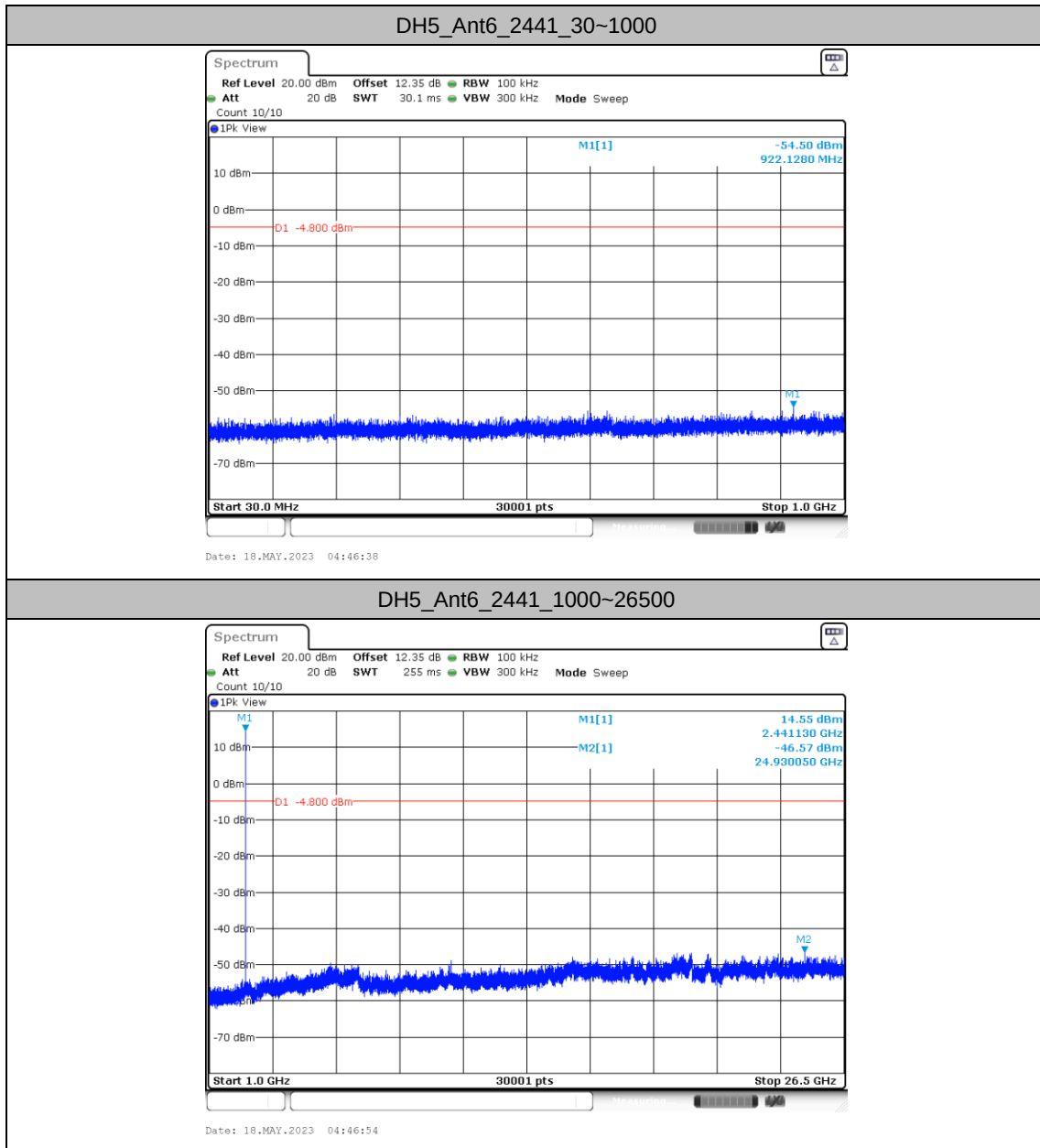


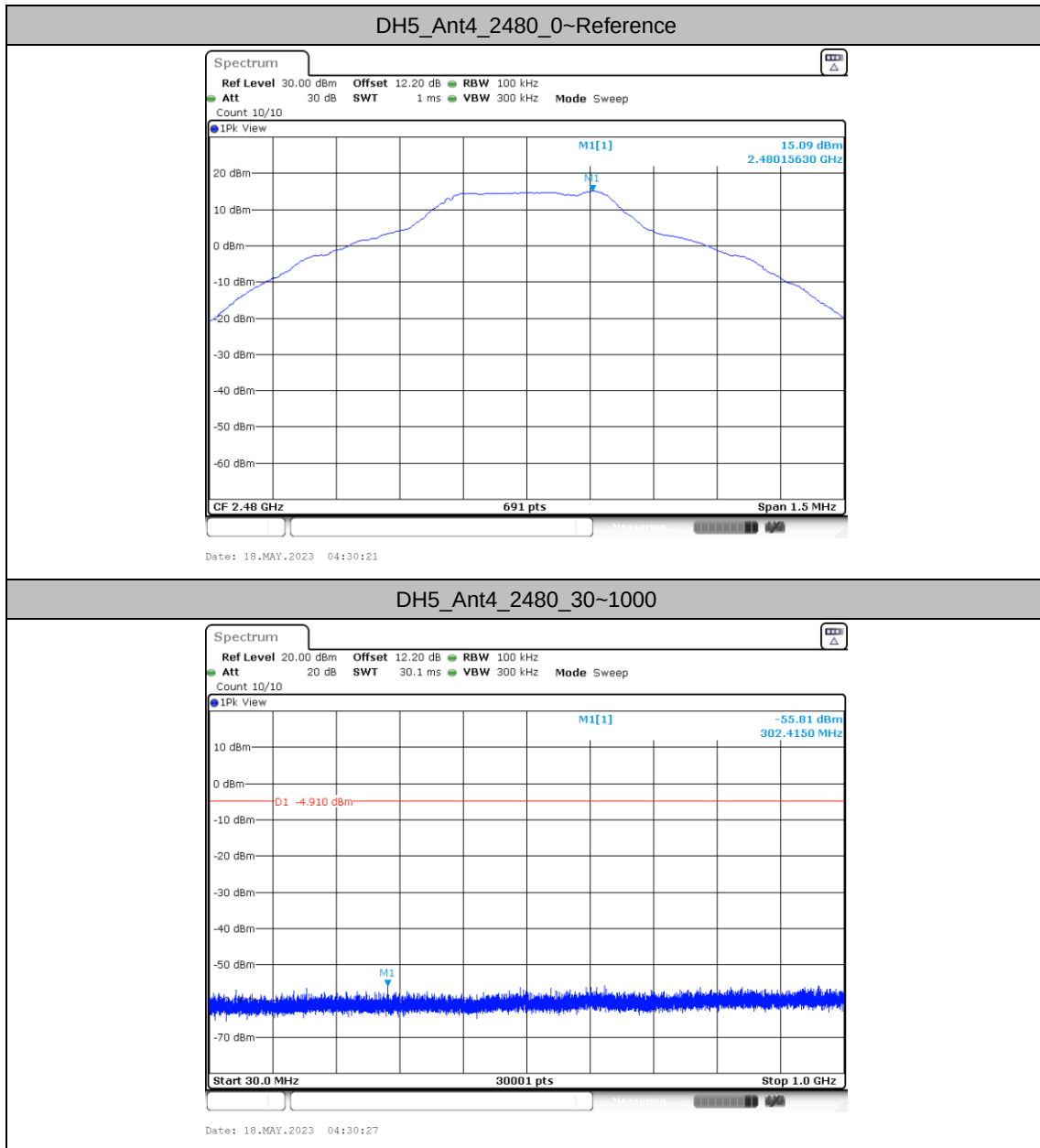
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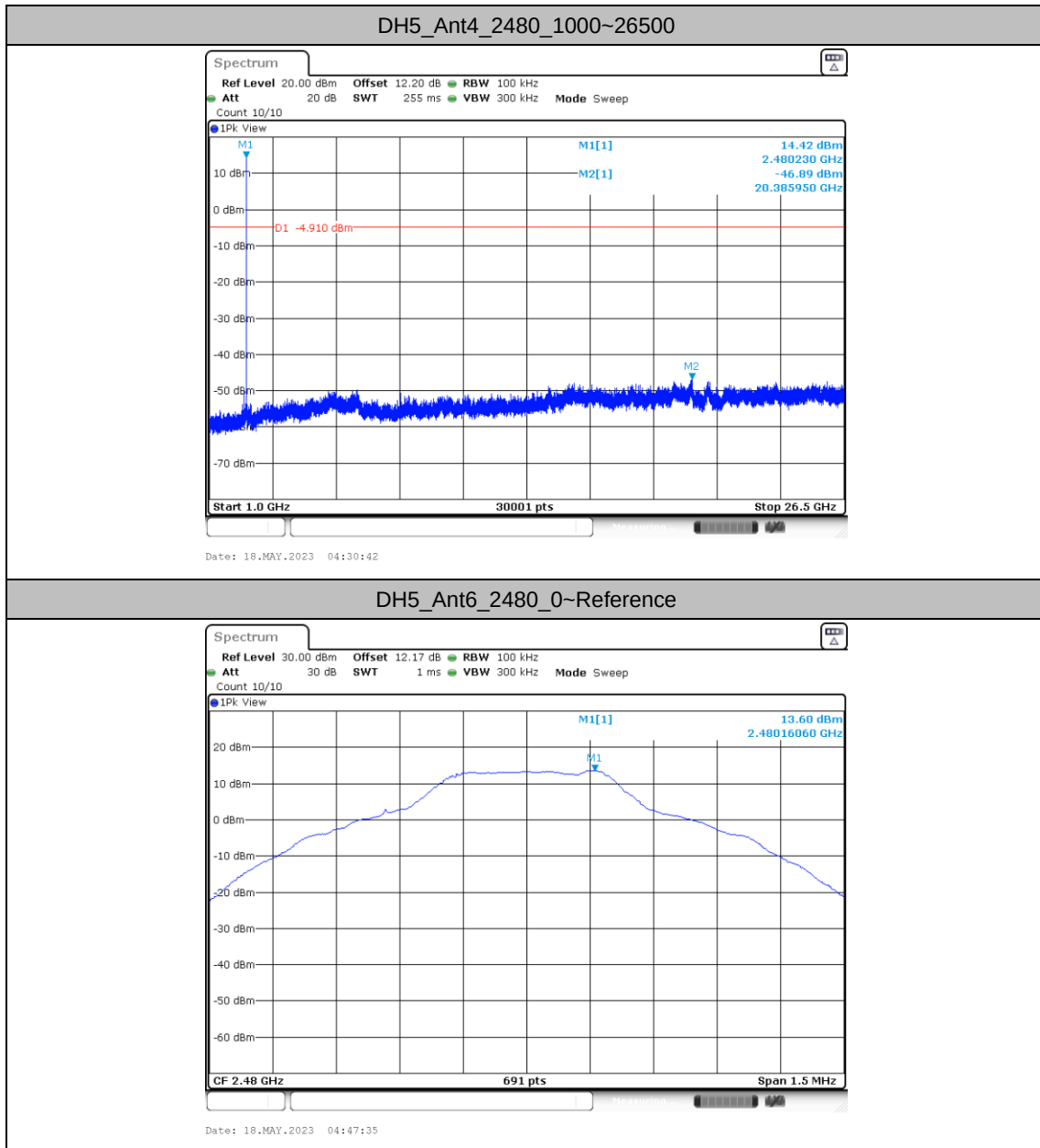


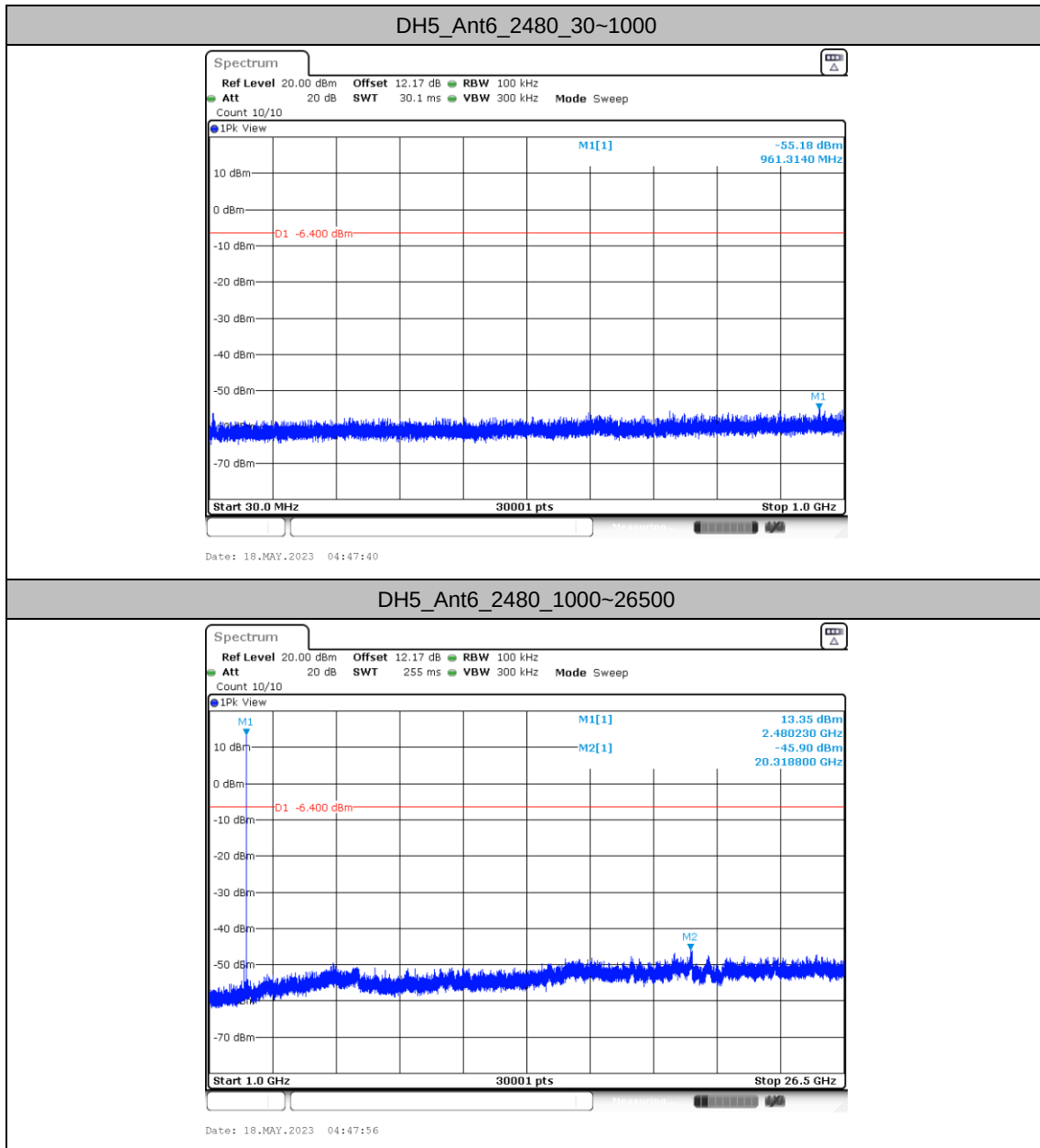
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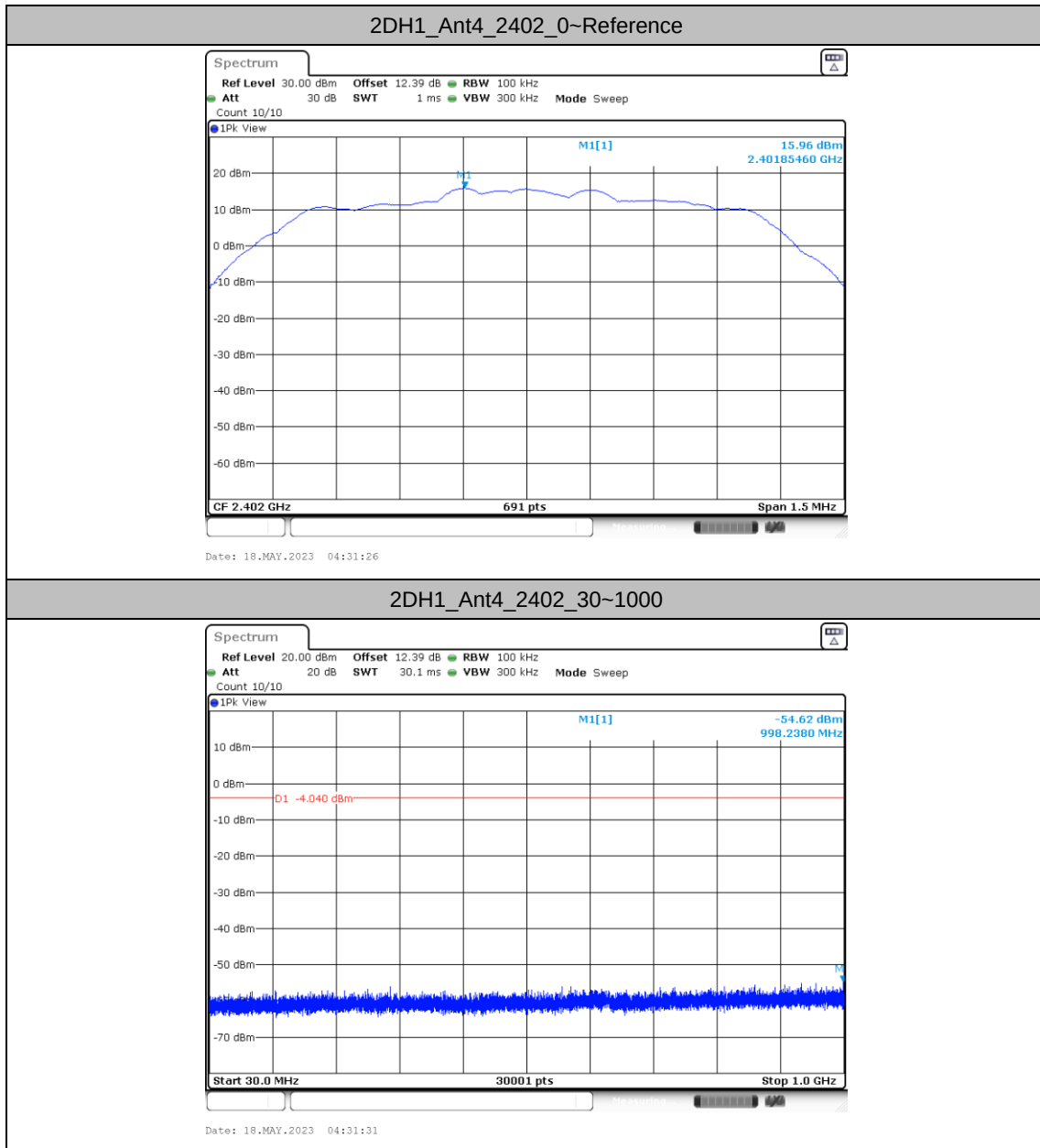






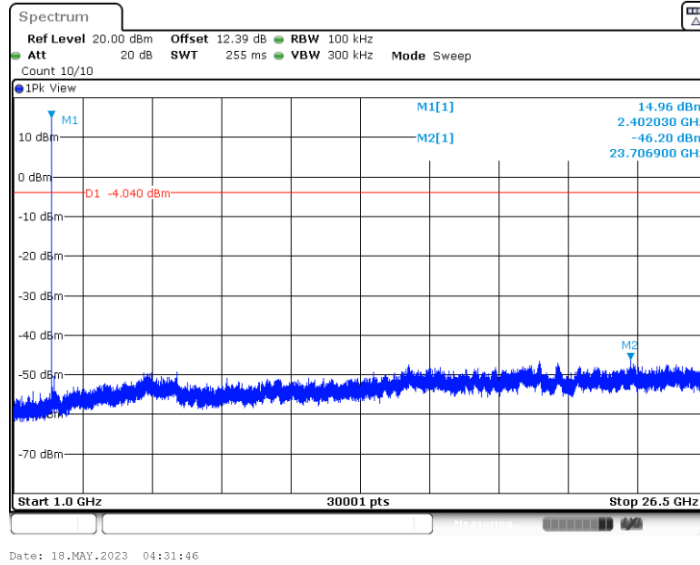




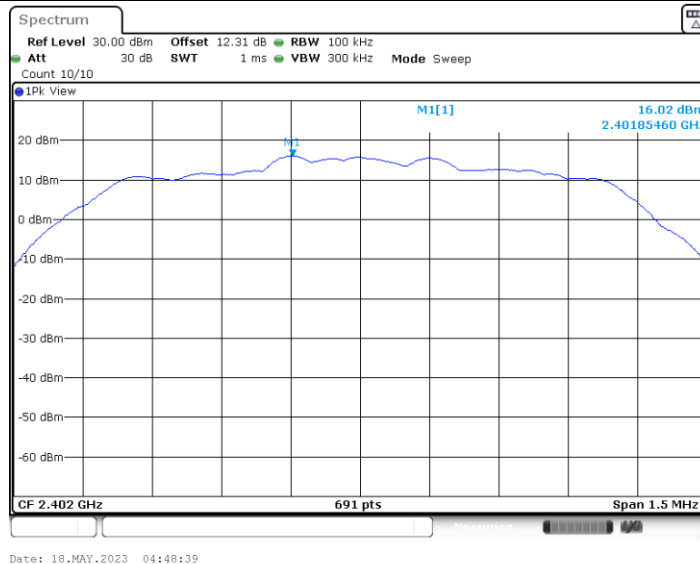


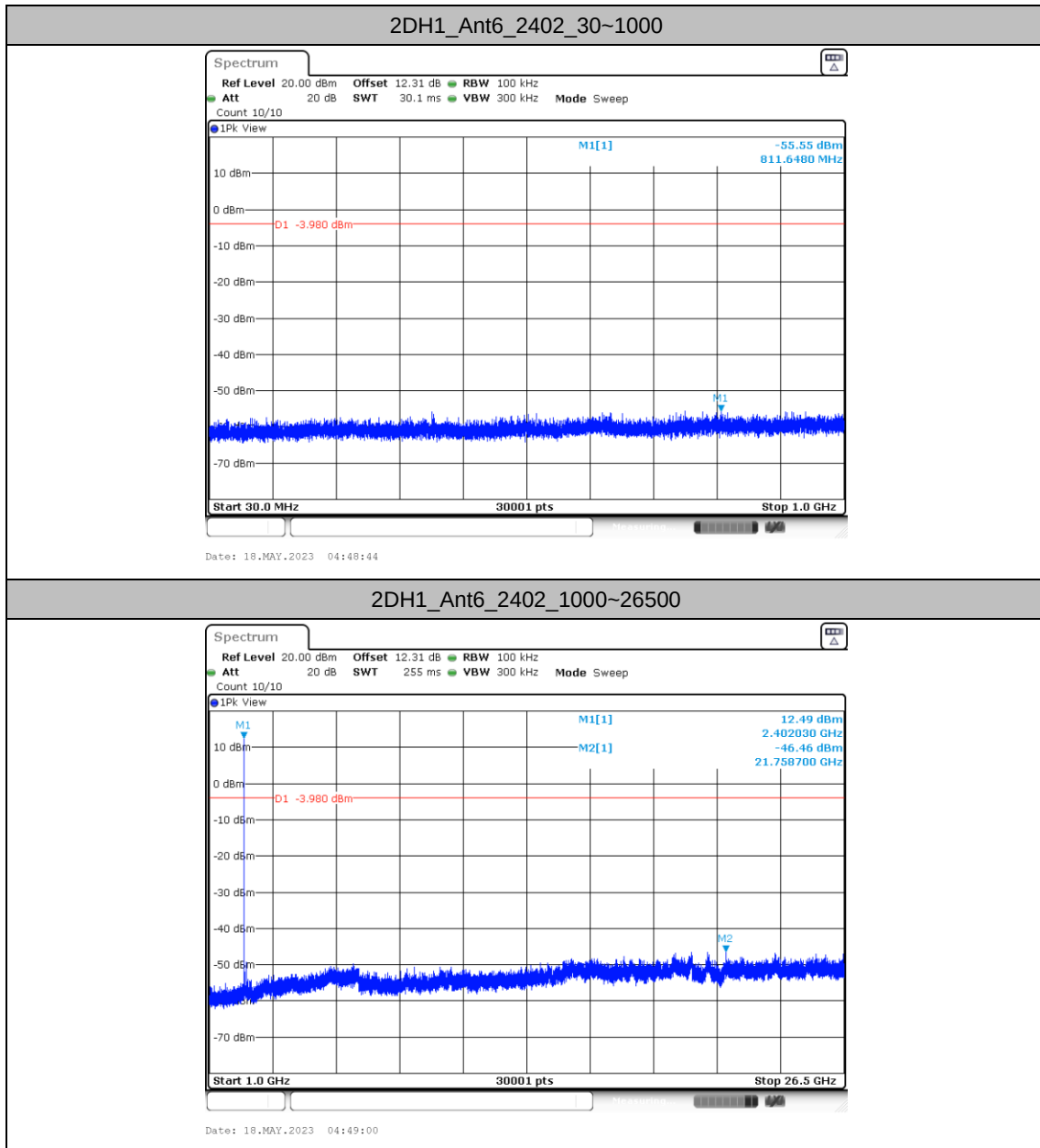


2DH1_Ant4_2402_1000~26500



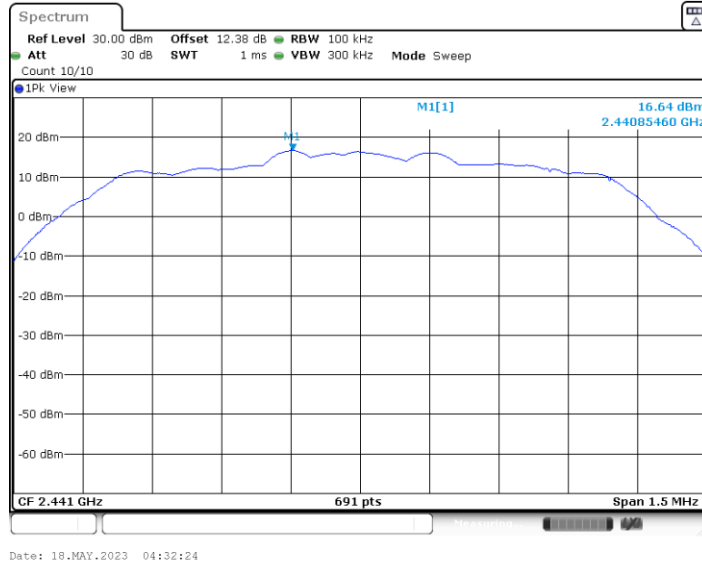
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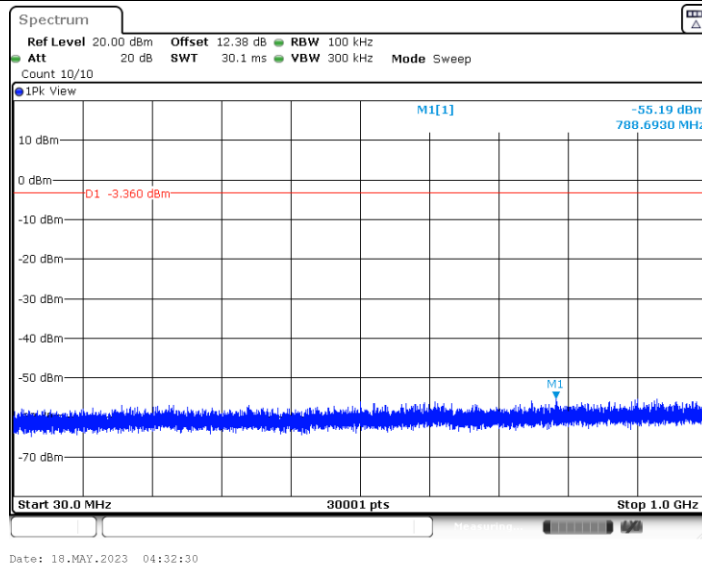




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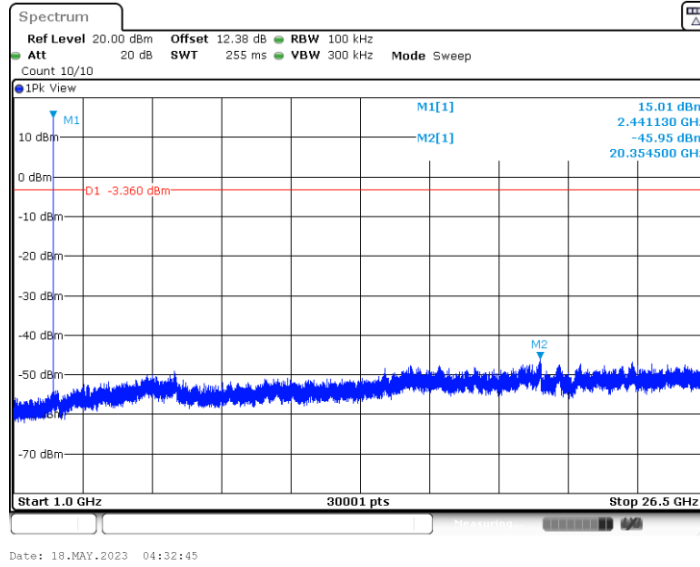


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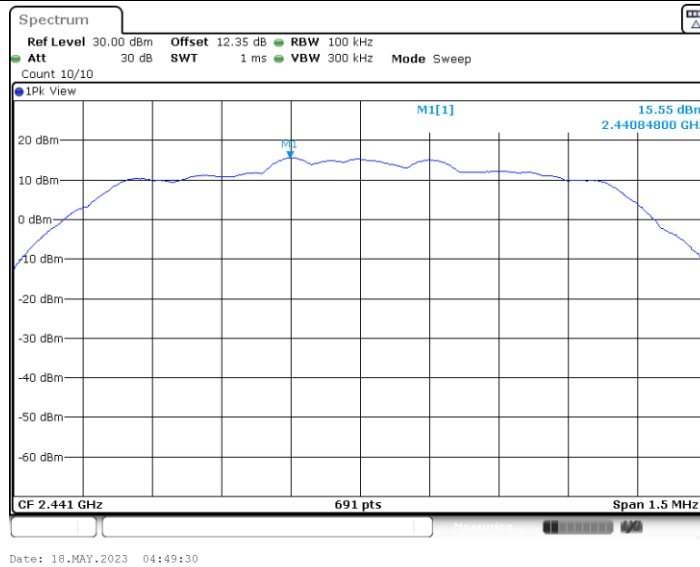


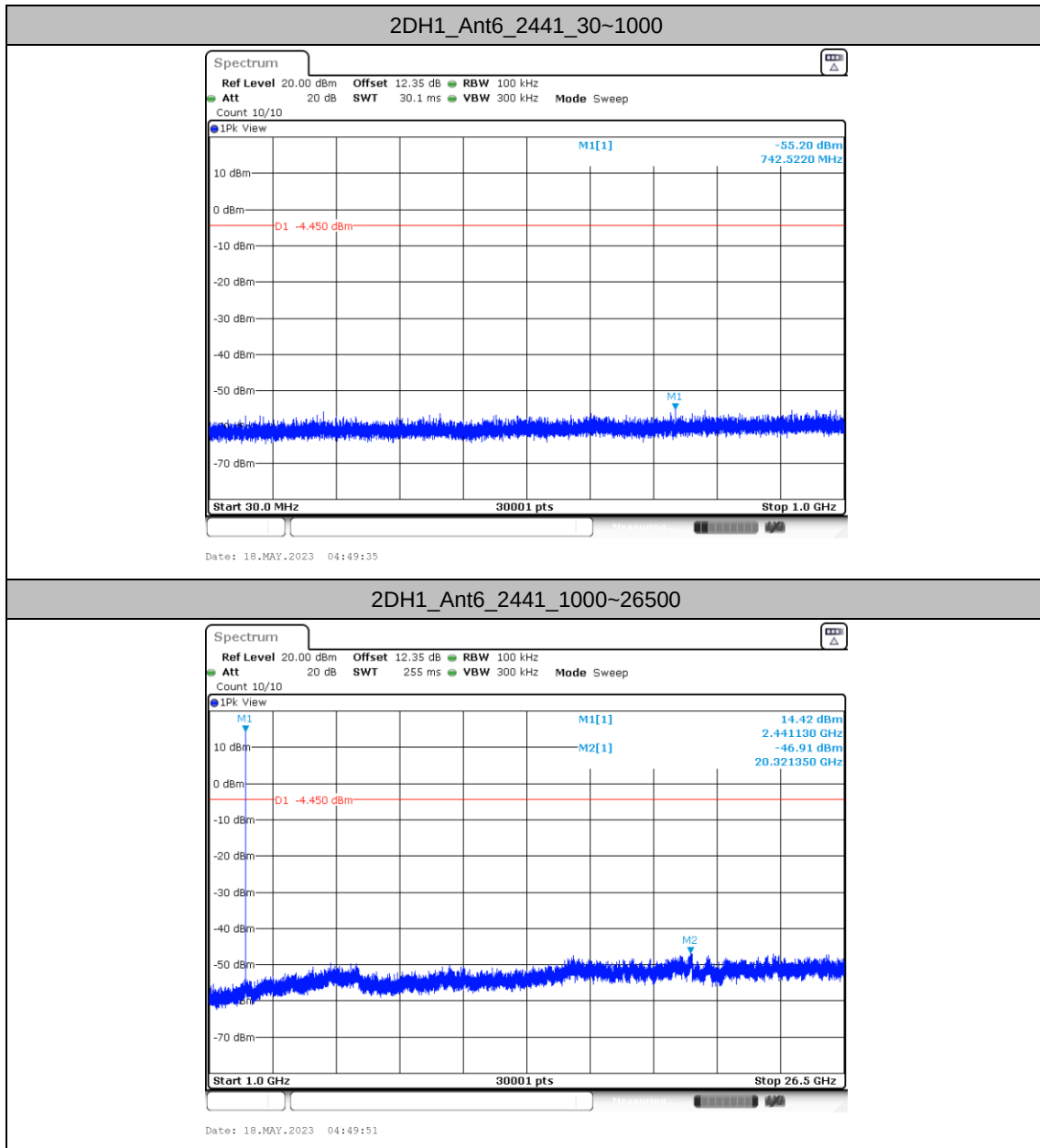


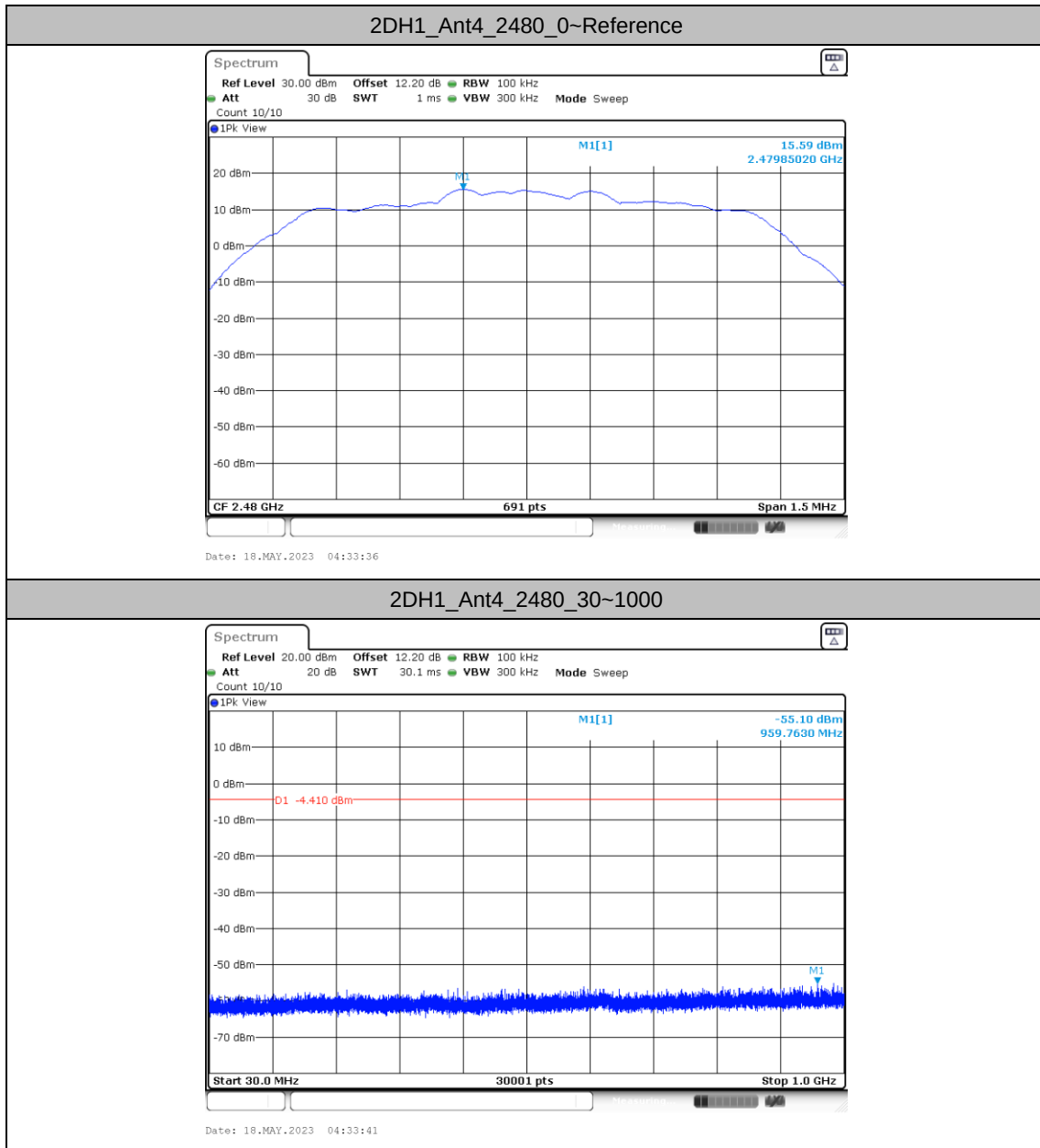
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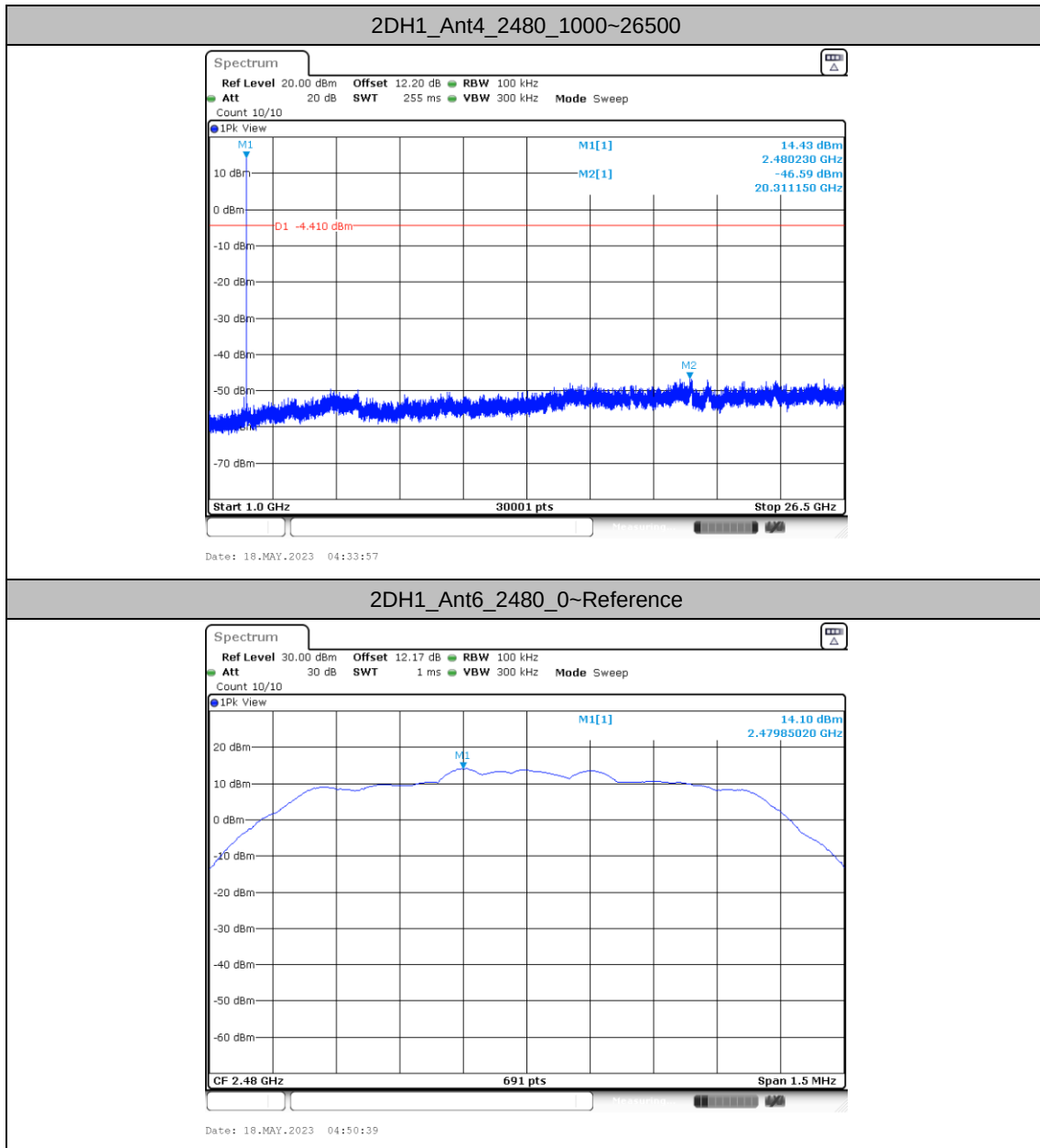


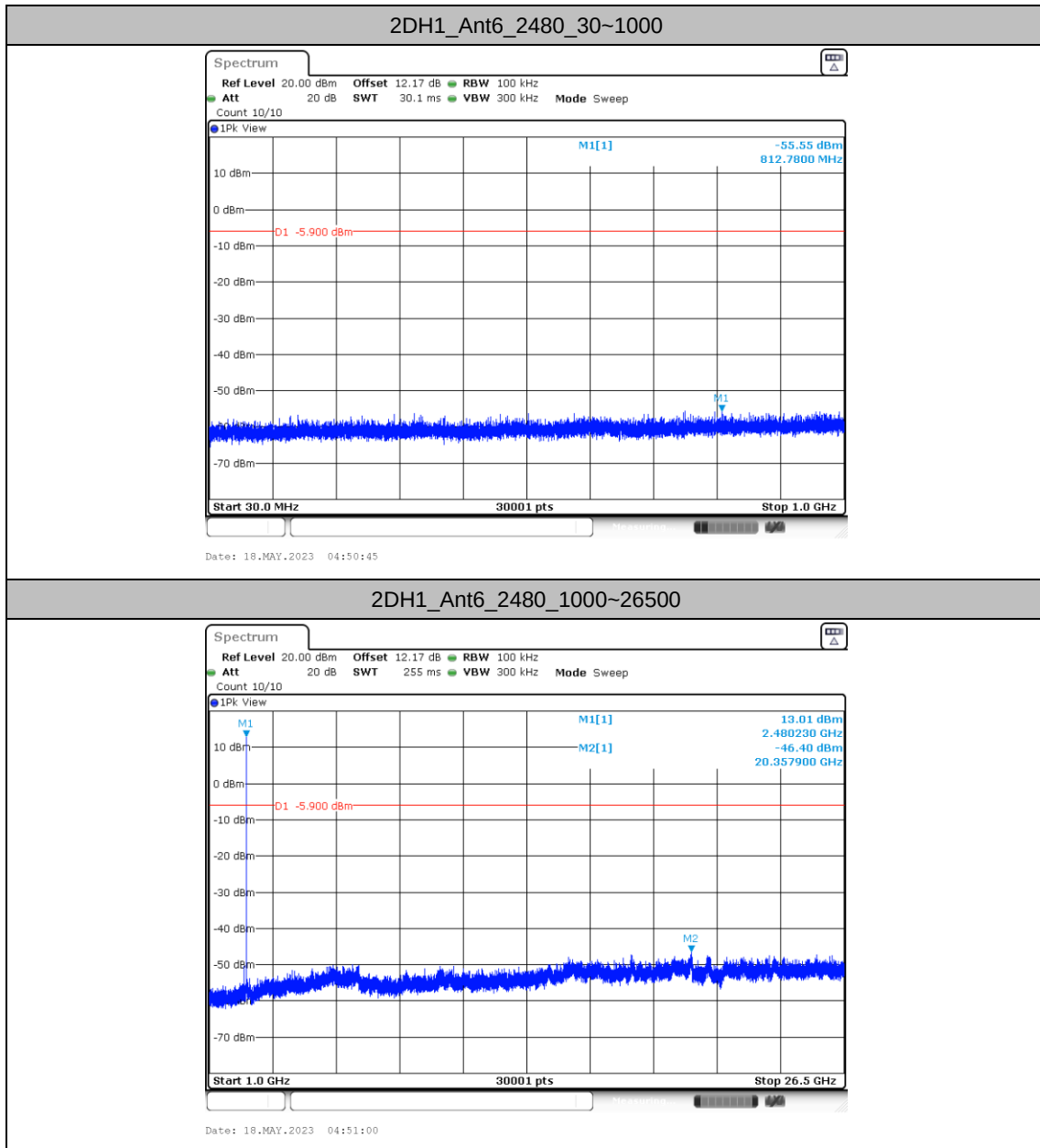
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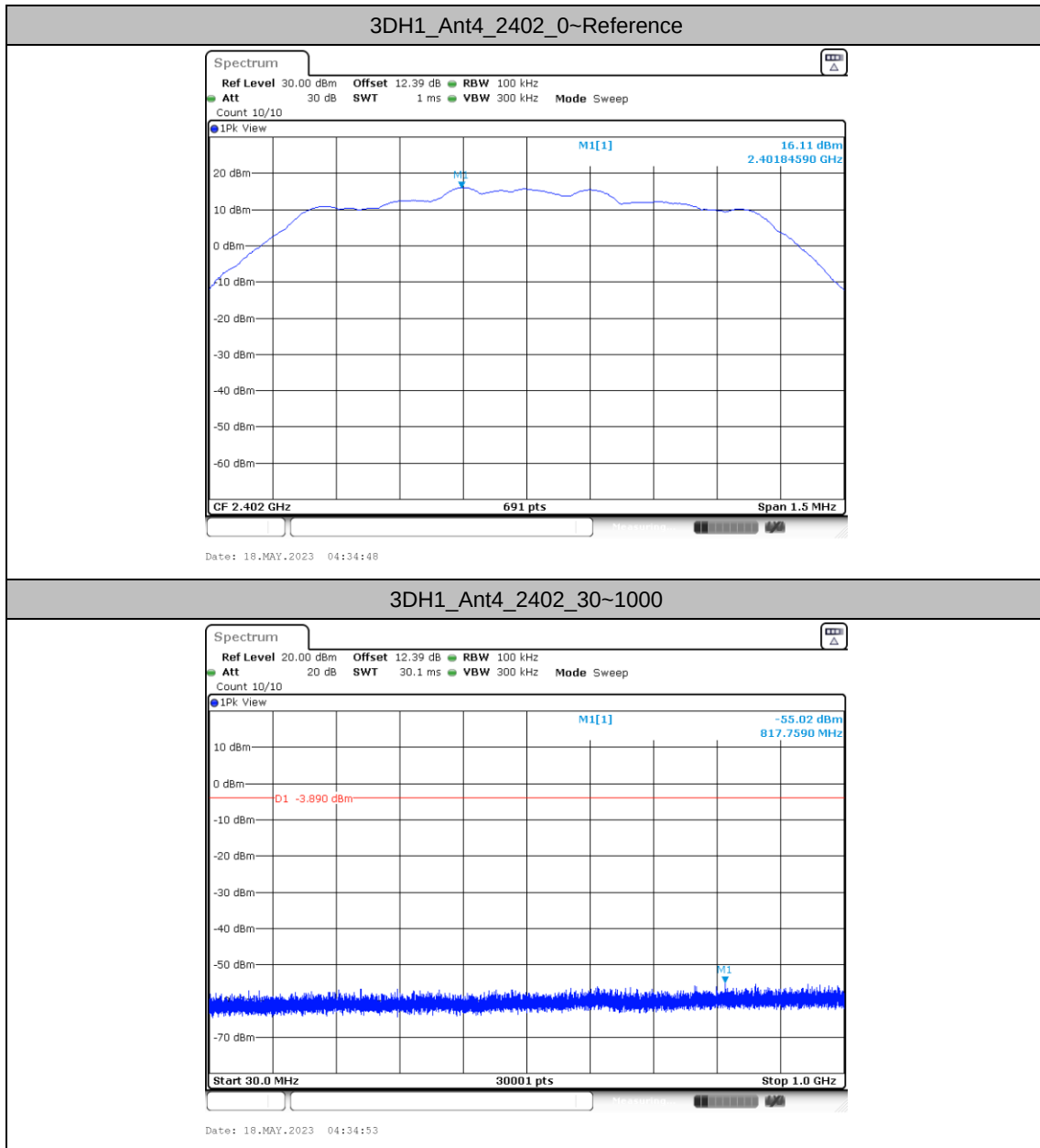


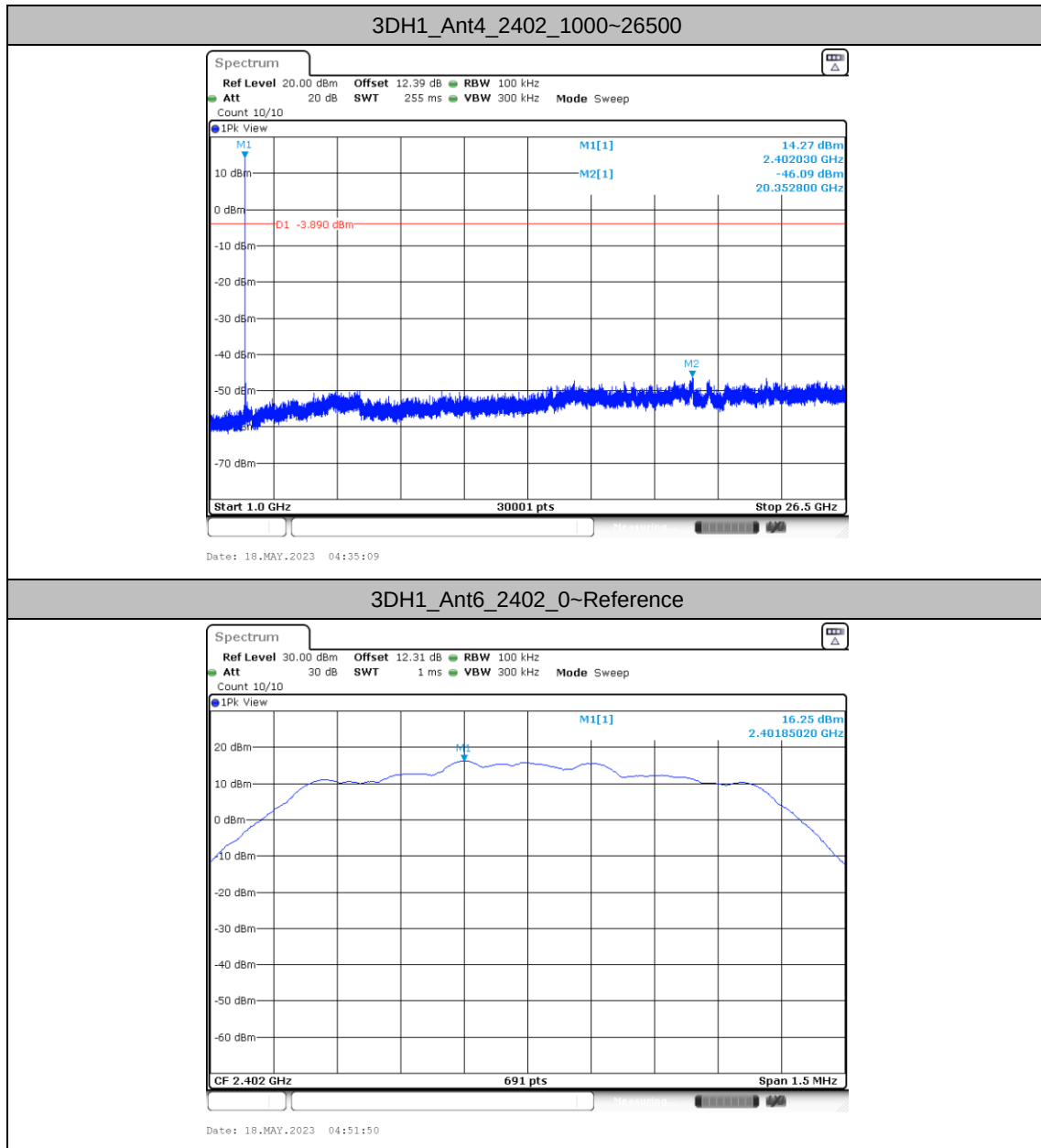


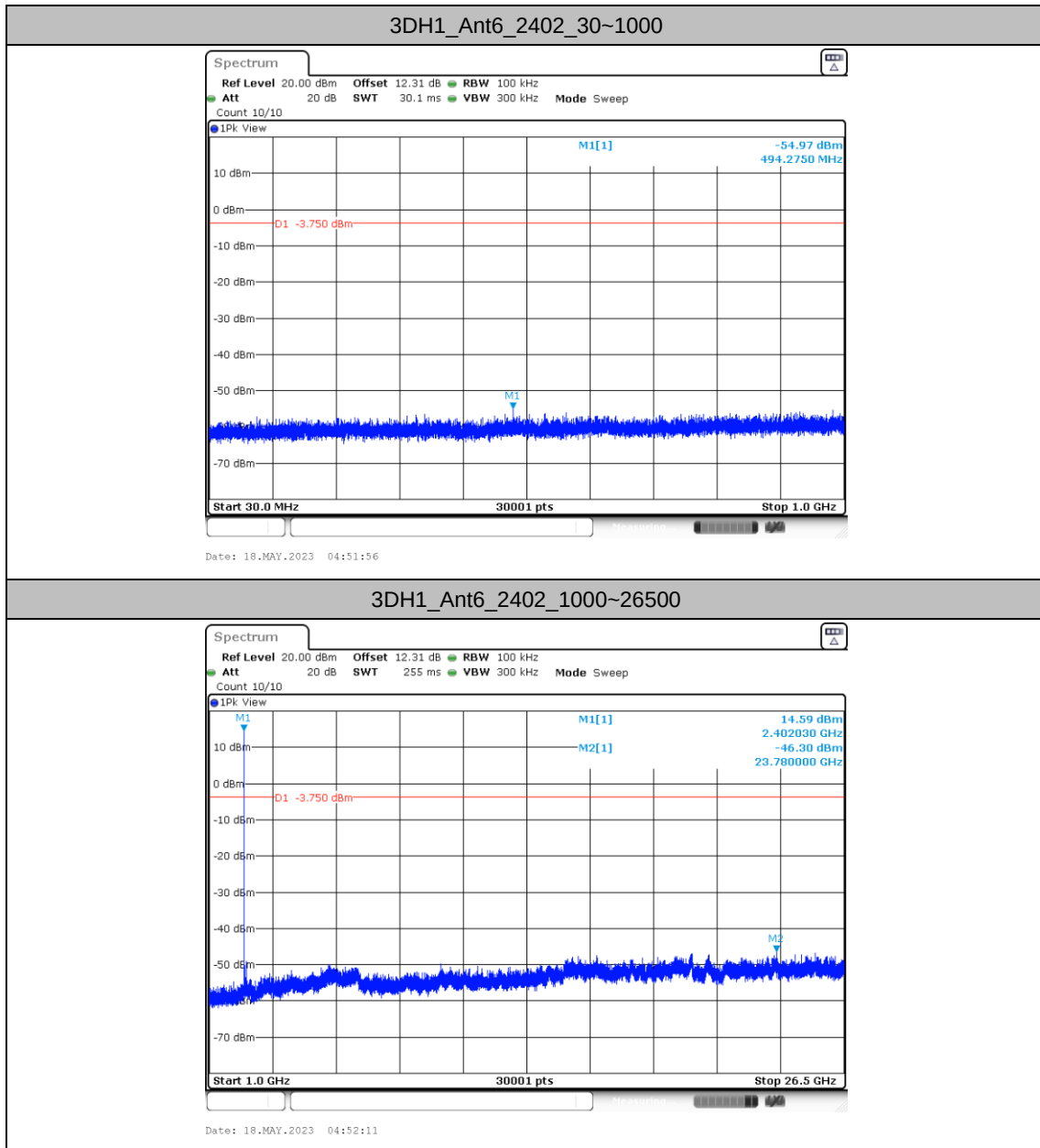


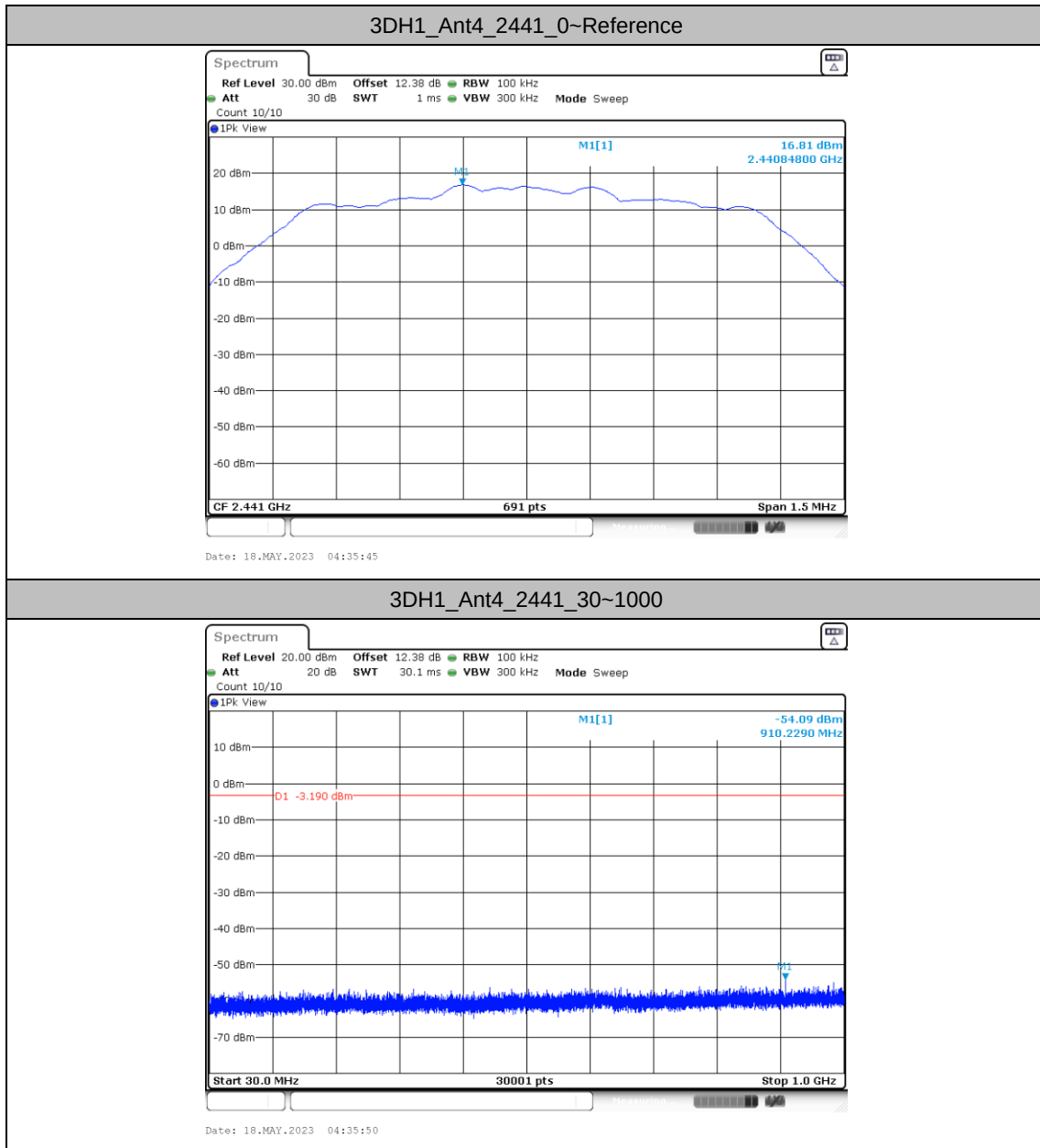


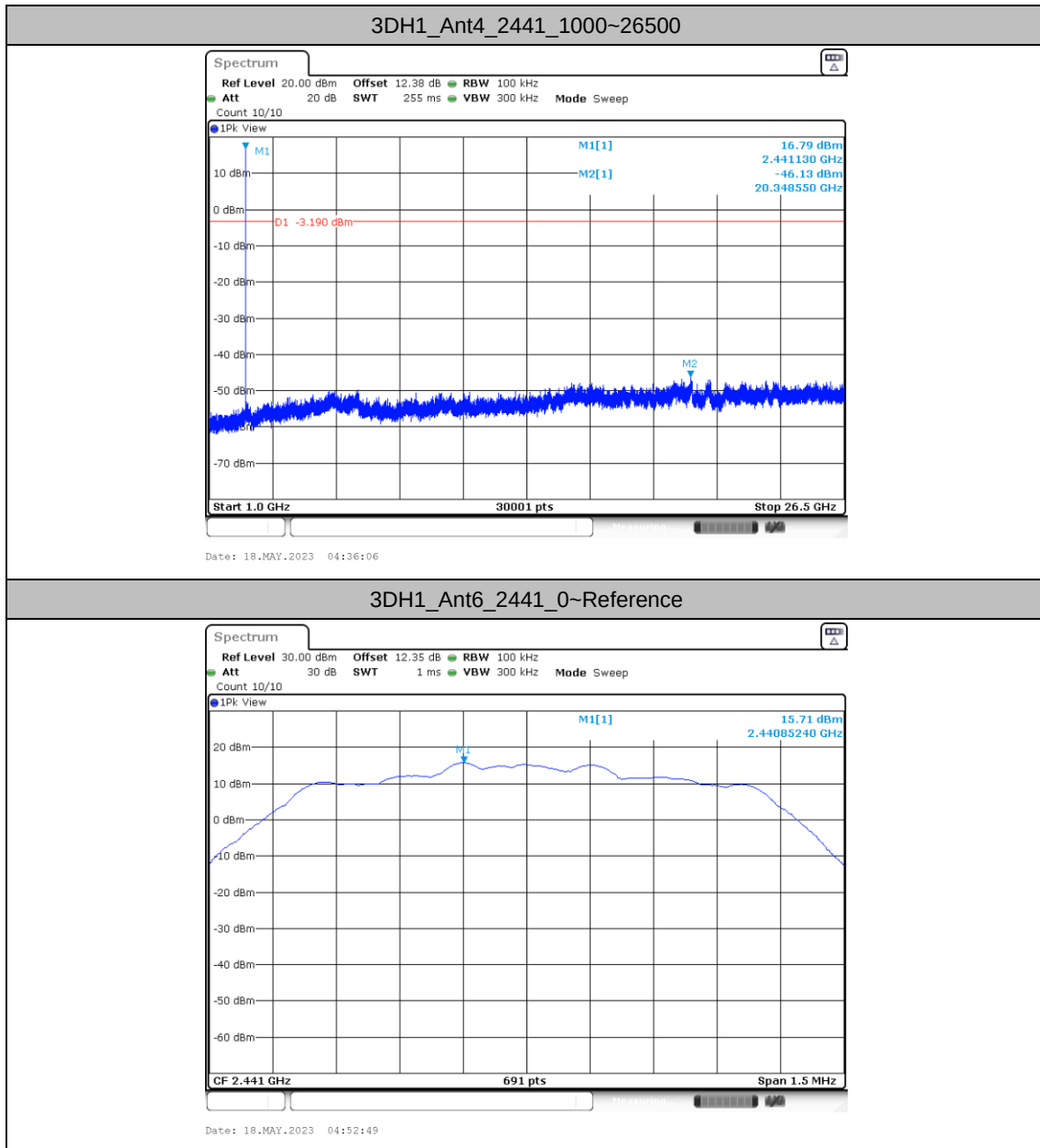


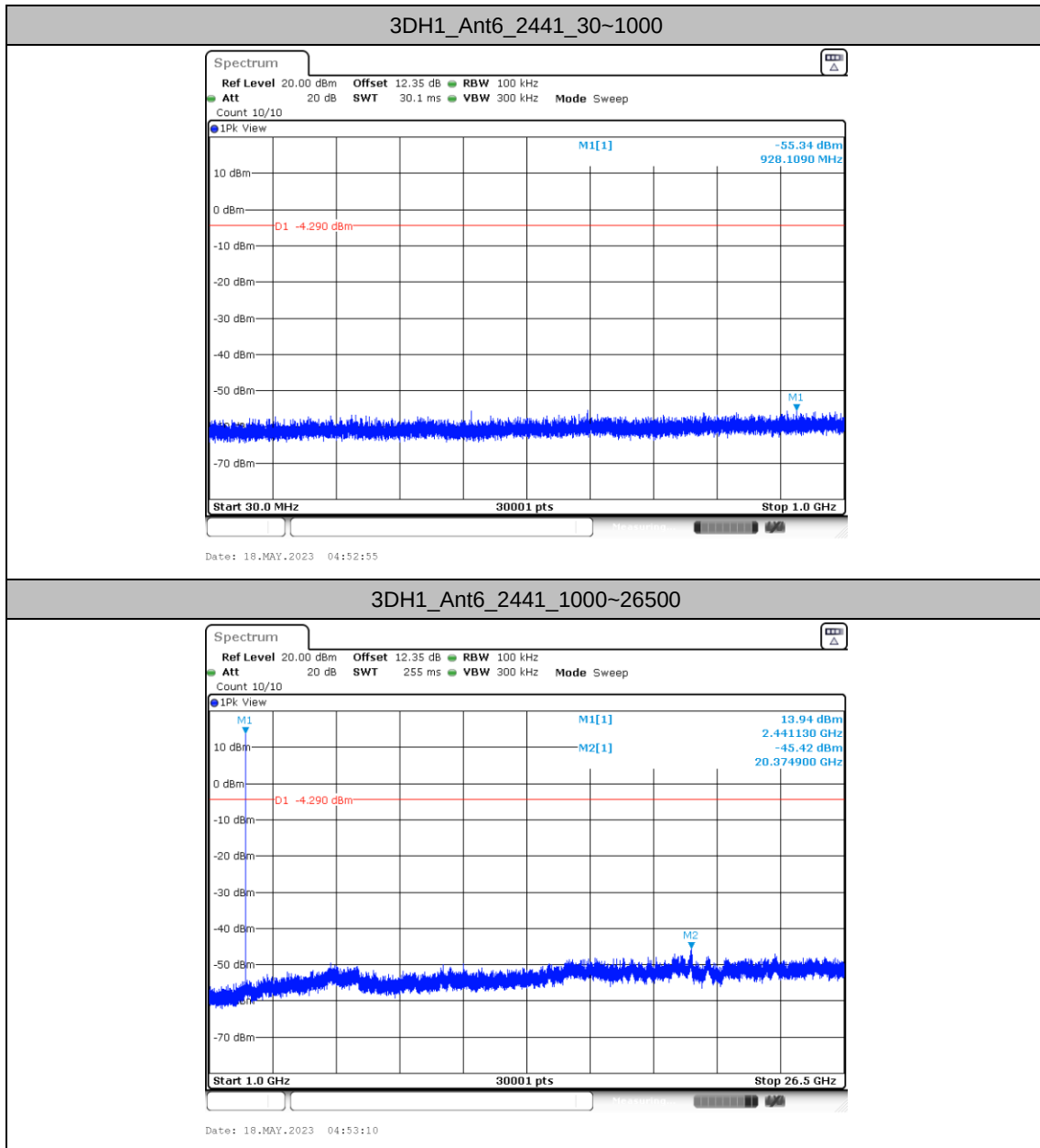


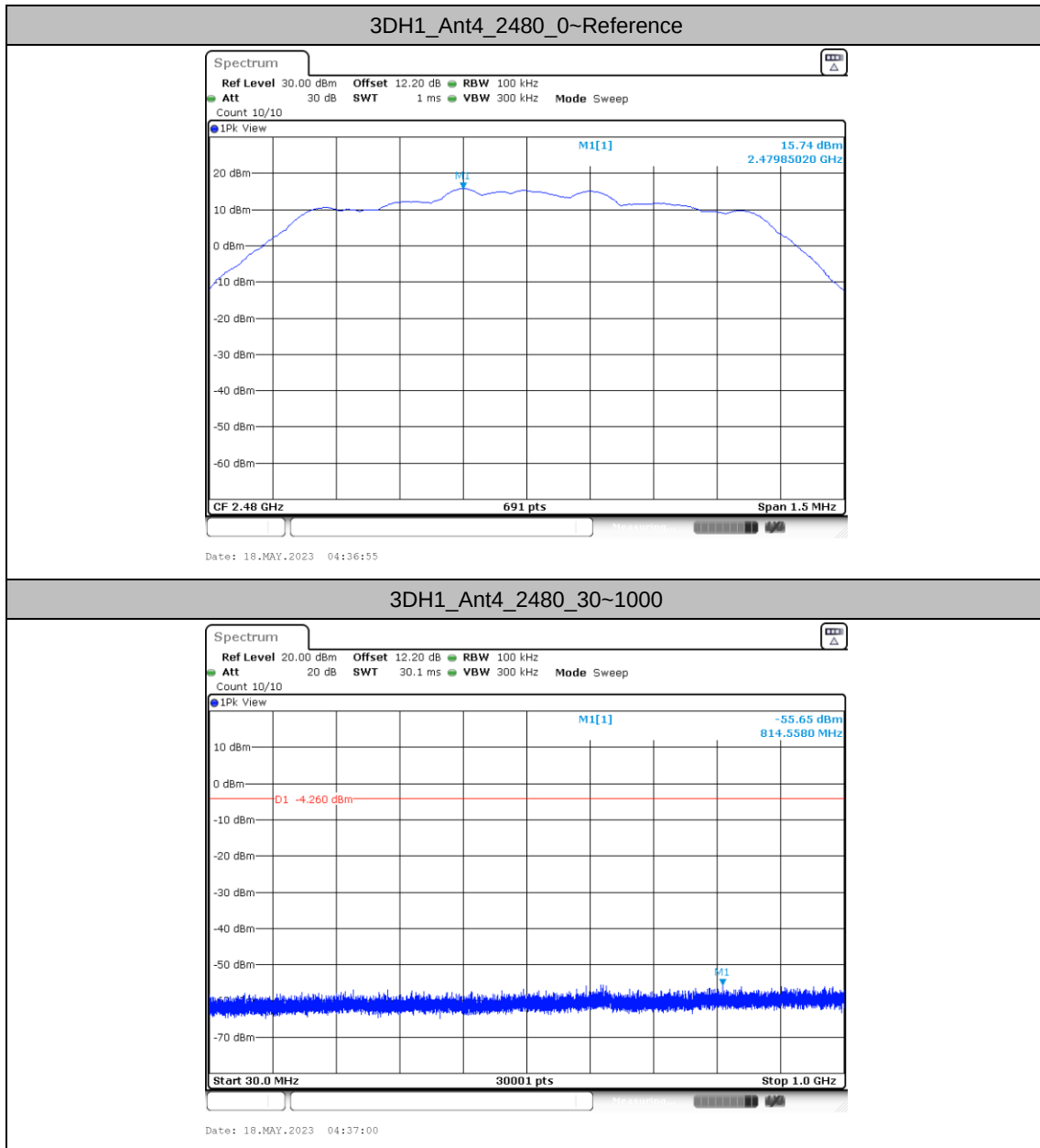


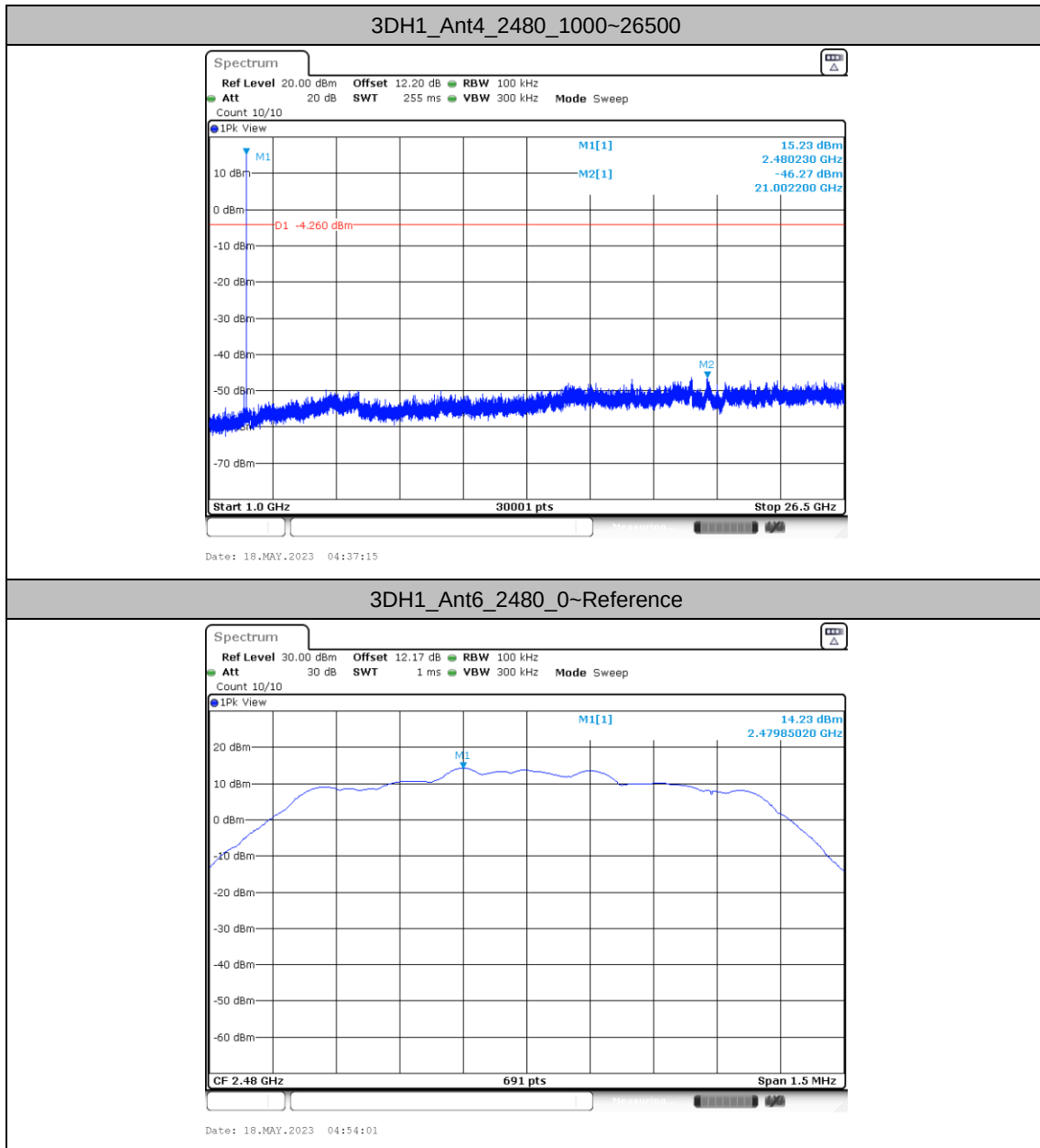


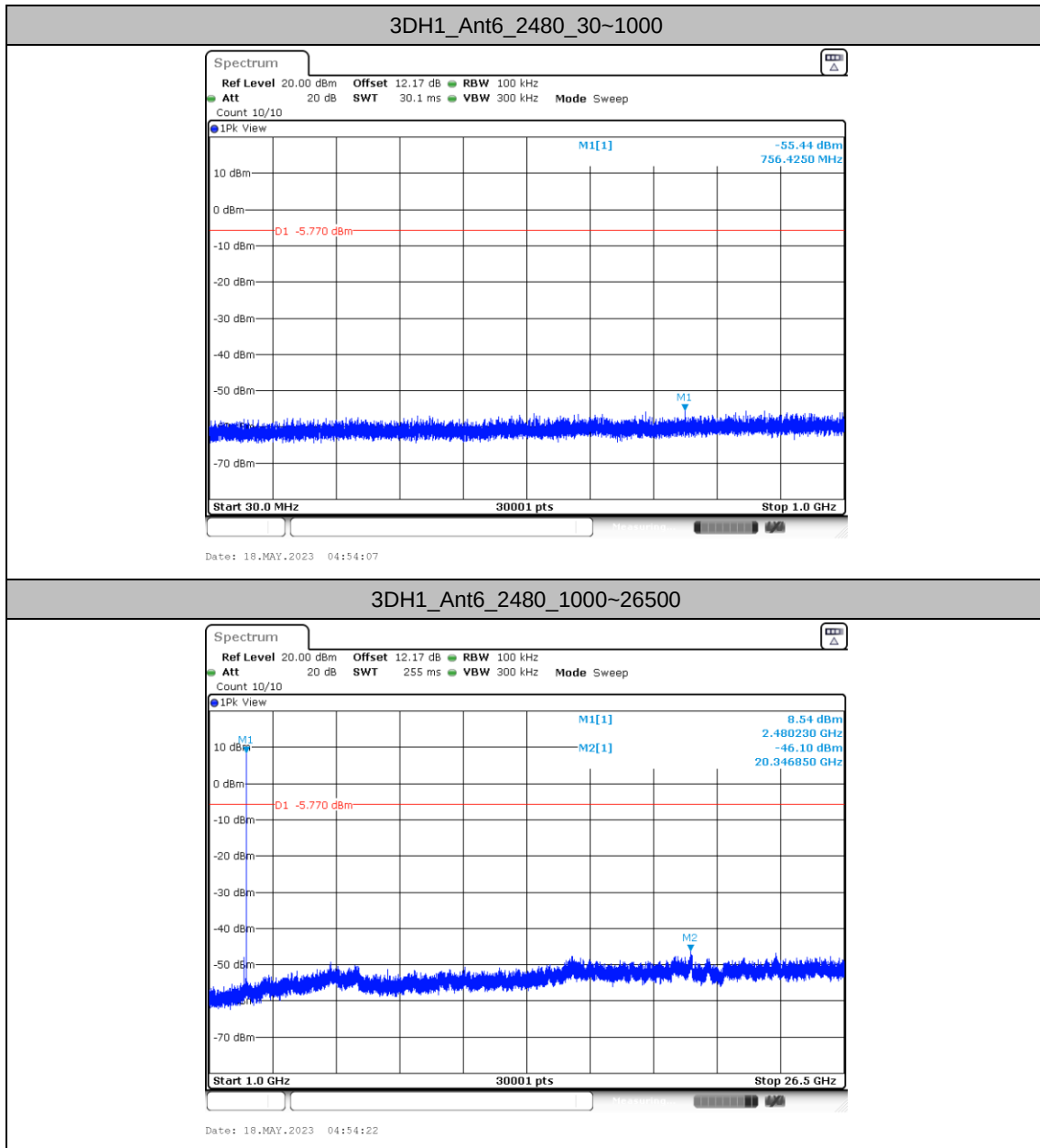






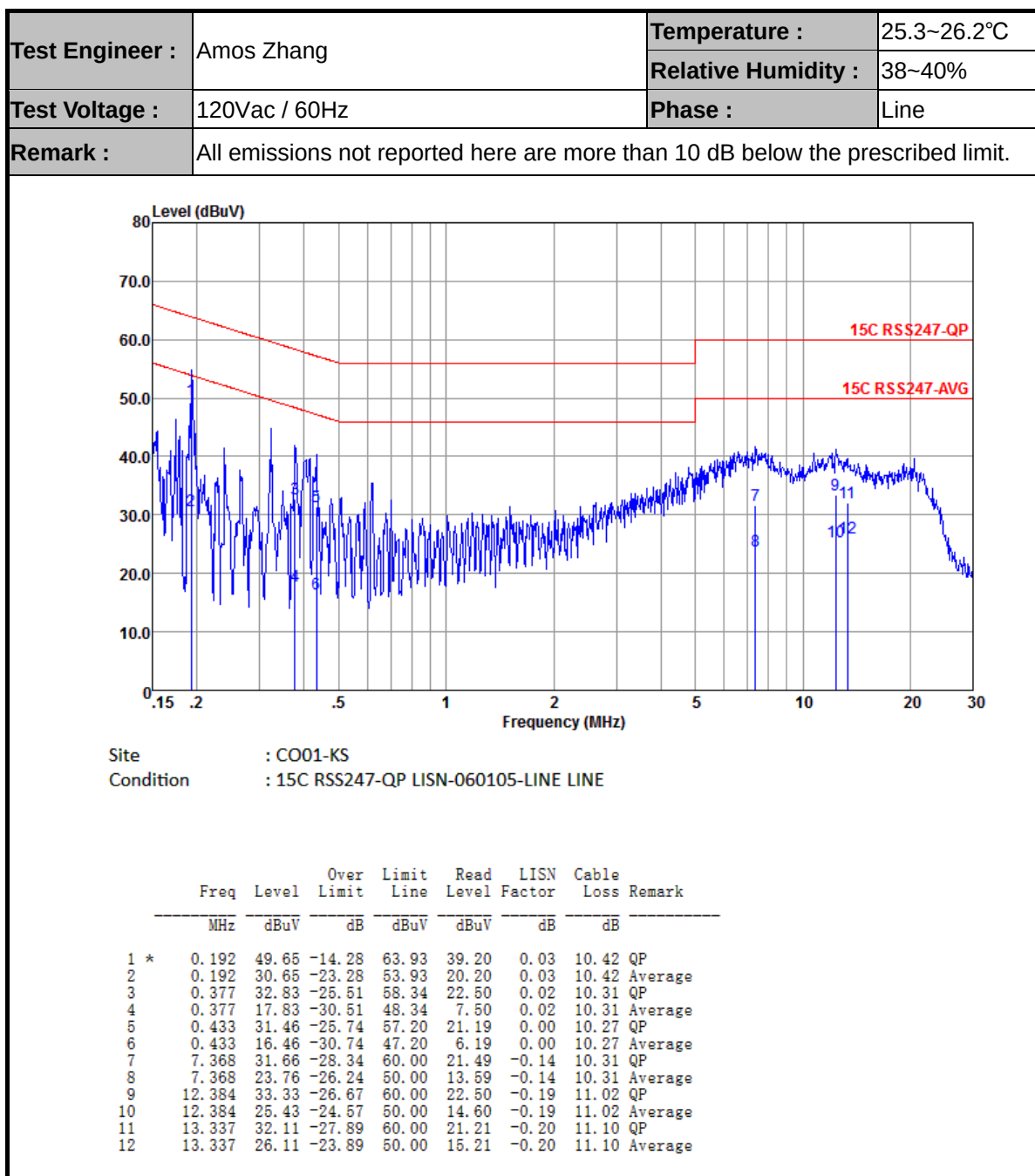






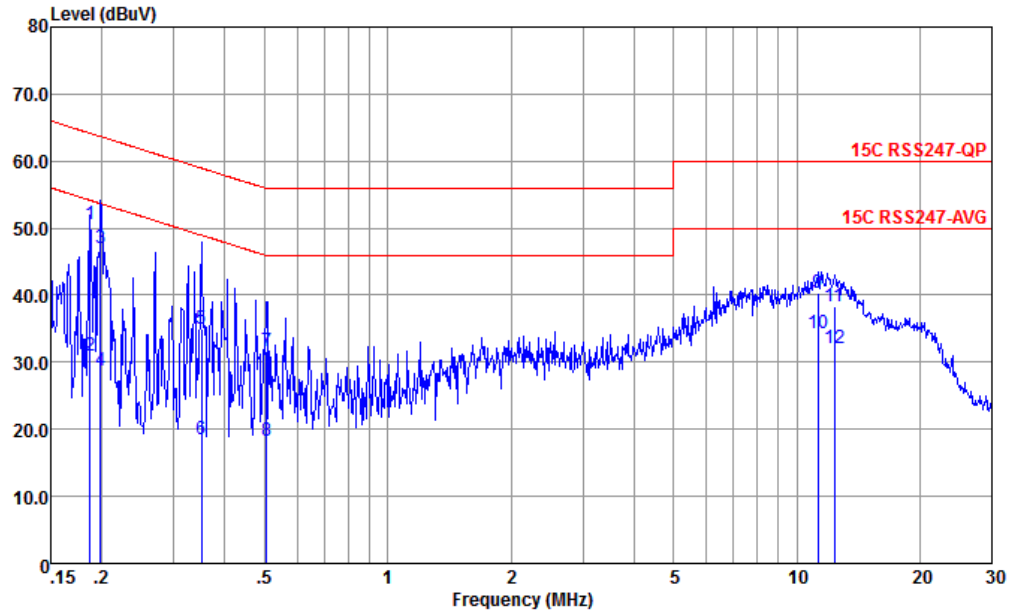


Appendix B. AC Conducted Emission Test Results





Test Engineer :	Amos Zhang	Temperature :	25.3~26.2°C
		Relative Humidity :	38~40%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		



Site : CO01-KS
Condition : 15C RSS247-QP LISN-060105-NEUTRAL NEUTRAL

	Freq	Level	Over	Limit	Read	LISN	Cable	Remark
	MHz	dBuV	Limit	Line	Level	Factor	Loss	
			dB	dBuV	dBuV	dB	dB	
1 *	0.187	50.57	-13.58	64.15	40.10	0.05	10.42	QP
2	0.187	31.07	-23.08	54.15	20.60	0.05	10.42	Average
3	0.199	47.07	-16.60	63.67	36.60	0.05	10.42	QP
4	0.199	28.67	-26.00	53.67	18.20	0.05	10.42	Average
5	0.350	35.06	-23.90	58.96	24.80	-0.06	10.32	QP
6	0.350	18.46	-30.50	48.96	8.20	-0.06	10.32	Average
7	0.505	31.63	-24.37	56.00	21.50	-0.08	10.21	QP
8	0.505	18.33	-27.67	46.00	8.20	-0.08	10.21	Average
9	11.257	40.28	-19.72	60.00	29.61	-0.19	10.86	QP
10	11.257	34.38	-15.62	50.00	23.71	-0.19	10.86	Average
11	12.384	38.34	-21.66	60.00	27.50	-0.18	11.02	QP
12	12.384	32.14	-17.86	50.00	21.30	-0.18	11.02	Average

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 Data

Test Engineer :	Jiankang jiang	Relative Humidity :	41 ~ 42 %
		Temperature :	22 ~ 23 °C

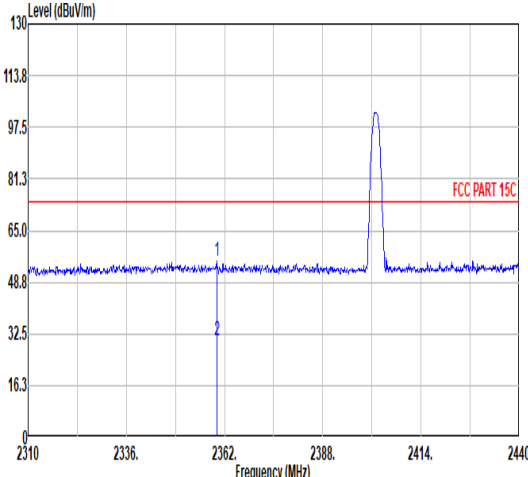
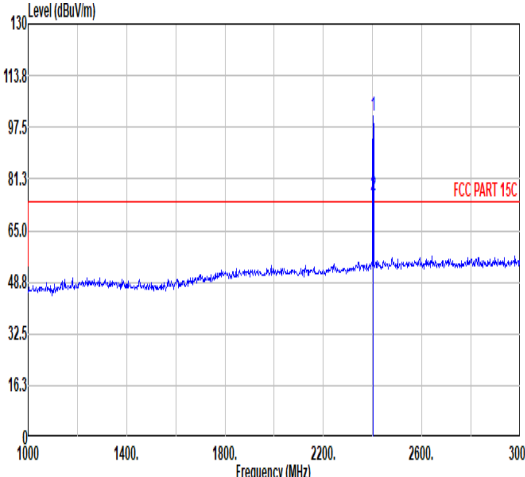
Radiated Spurious Emission Test Modes

Mode	Band (MHz)	Antenna	Modulation	Channel	Frequency	Data Rate	RU	Remark
Mode 1	2400-2483.5	4	Bluetooth BR_GFSK	00	2402	1Mbps	-	-
Mode 2	2400-2483.5	4	Bluetooth BR_GFSK	39	2441	1Mbps	-	-
Mode 3	2400-2483.5	4	Bluetooth BR_GFSK	78	2480	1Mbps	-	-
Mode 4	2400-2483.5	6	Bluetooth BR_GFSK	00	2402	1Mbps	-	-
Mode 5	2400-2483.5	6	Bluetooth BR_GFSK	39	2441	1Mbps	-	-
Mode 6	2400-2483.5	6	Bluetooth BR_GFSK	78	2480	1Mbps	-	-
Mode 7	2400-2483.5	4	Bluetooth BR_GFSK	78	2480	1Mbps		LF

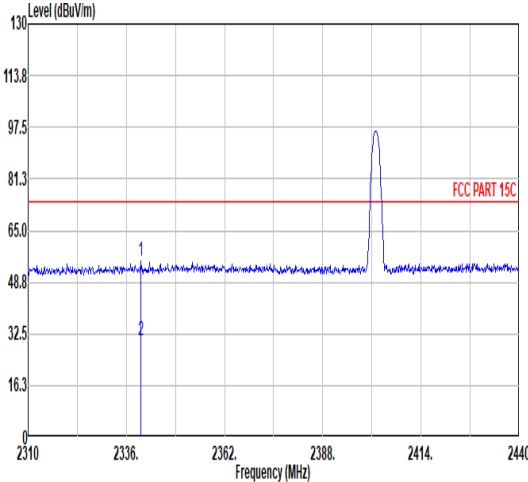
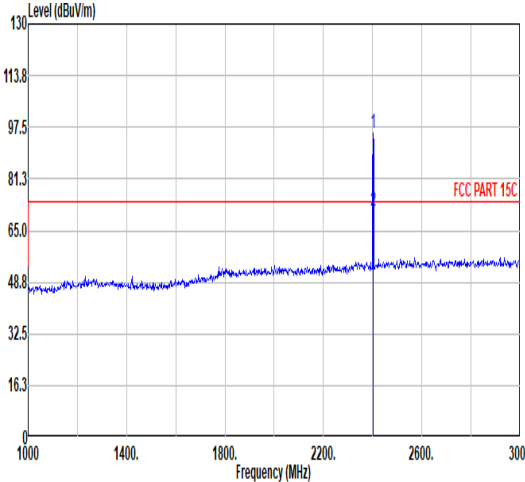
Summary of each worse mode

Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	Remark
1	Bluetooth BR_GFSK	00	2339.90	55.31	74.00	-18.69	V	PEAK	Pass	Band Edge
	Bluetooth BR_GFSK	00	4804.00	43.29	74.00	-30.71	V	PEAK	Pass	Harmonic
2	Bluetooth BR_GFSK	39	-	-	-	-	-	-	-	Band Edge
	Bluetooth BR_GFSK	39	7323.00	44.09	74.00	-29.91	H	PEAK	Pass	Harmonic
3	Bluetooth BR_GFSK	78	2487.08	56.50	74.00	-17.50	V	PEAK	Pass	Band Edge
	Bluetooth BR_GFSK	78	7440.00	44.25	74.00	-29.75	H	PEAK	Pass	Harmonic
4	Bluetooth BR_GFSK	00	2355.50	56.01	74.00	-17.99	H	PEAK	Pass	Band Edge
	Bluetooth BR_GFSK	00	4804.00	41.97	74.00	-32.03	V	PEAK	Pass	Harmonic
5	Bluetooth BR_GFSK	39	-	-	-	-	-	-	-	Band Edge
	Bluetooth BR_GFSK	39	7323.00	43.86	74.00	-30.14	V	PEAK	Pass	Harmonic
6	Bluetooth BR_GFSK	78	2493.04	55.39	74.00	-18.61	H	PEAK	Pass	Band Edge
	Bluetooth BR_GFSK	78	7440.00	44.19	74.00	-29.81	H	PEAK	Pass	Harmonic
7	Bluetooth BR_GFSK	78	53.28	26.48	40.00	-13.52	V	PEAK	Pass	LF

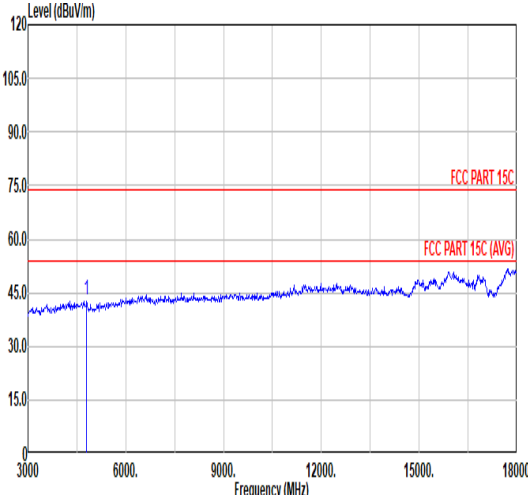
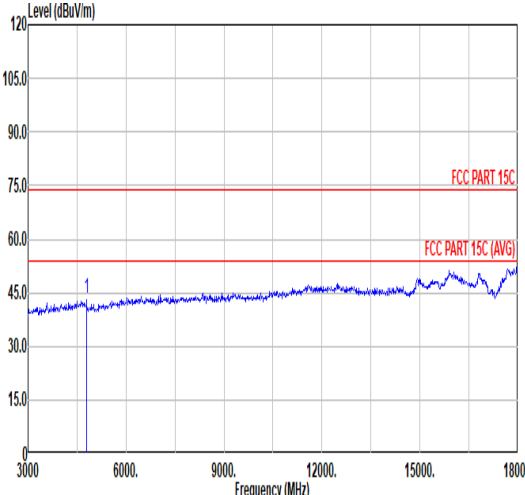


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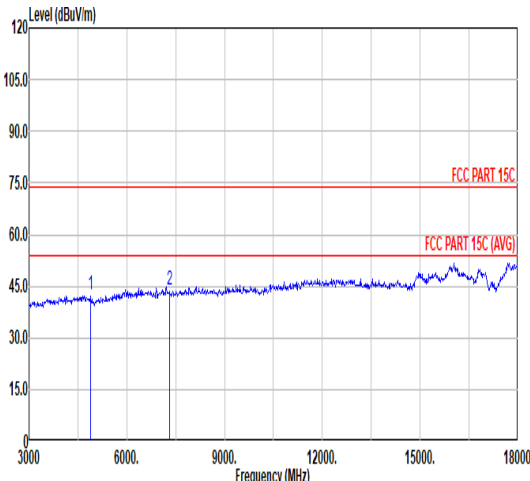
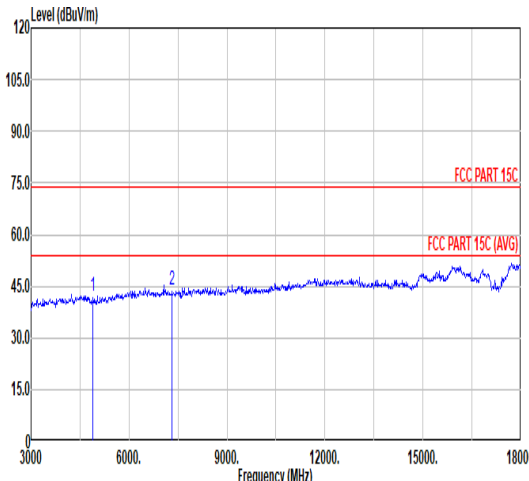


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		Limit		Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark																																																																																																																					
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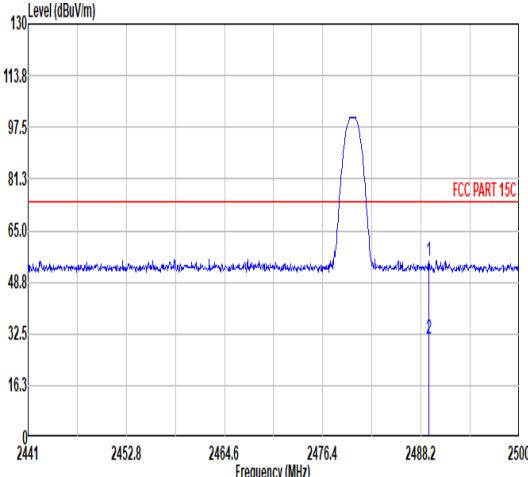
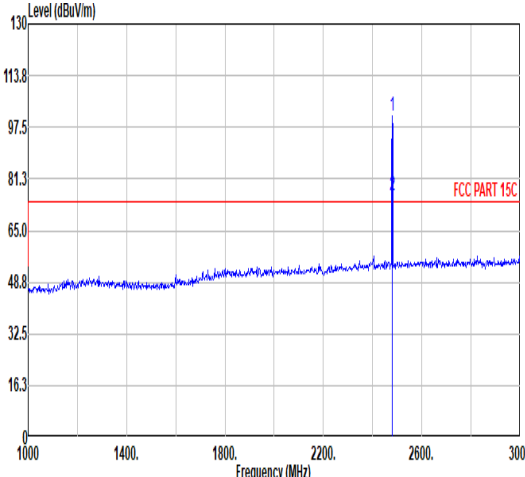


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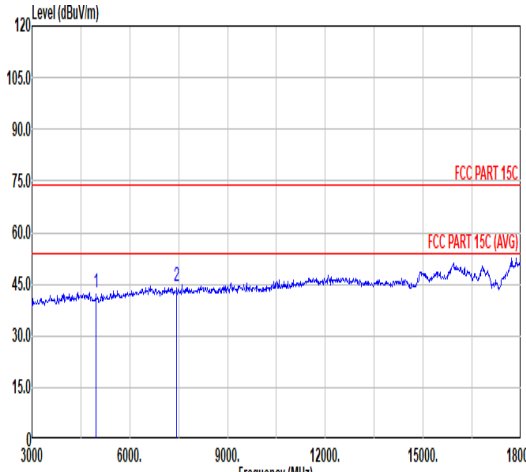
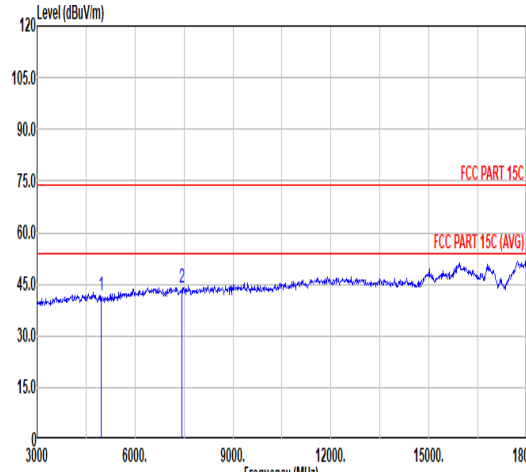
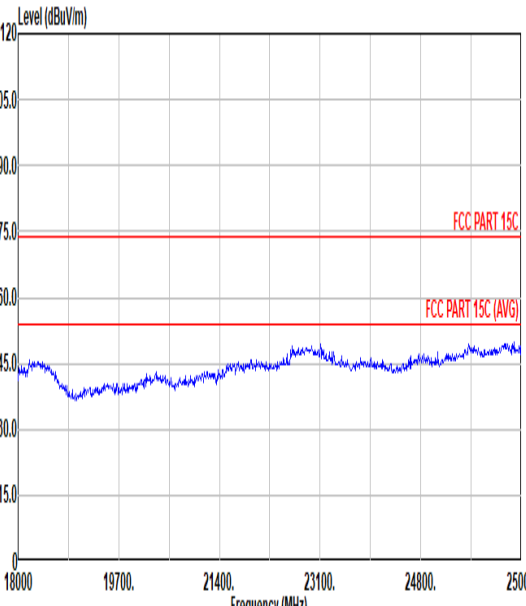
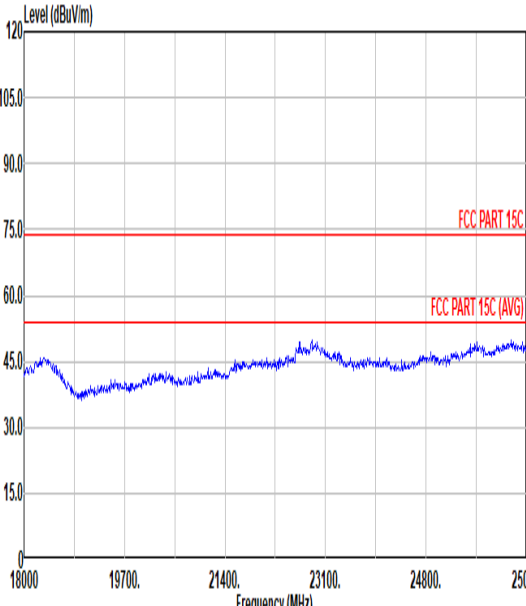


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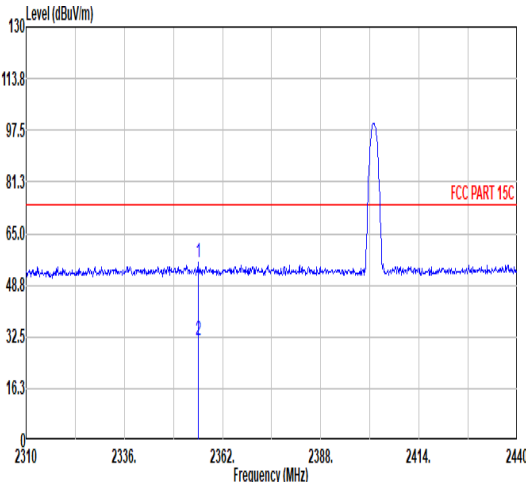
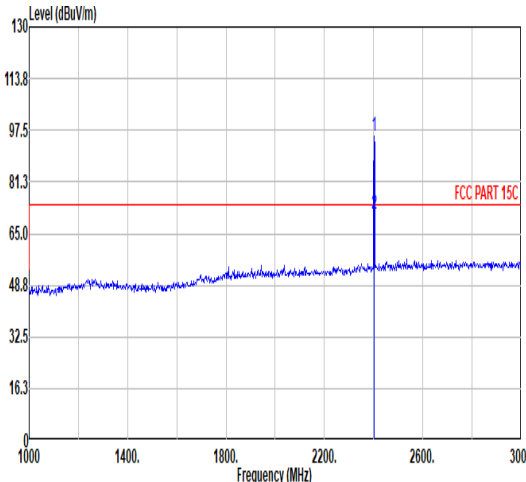


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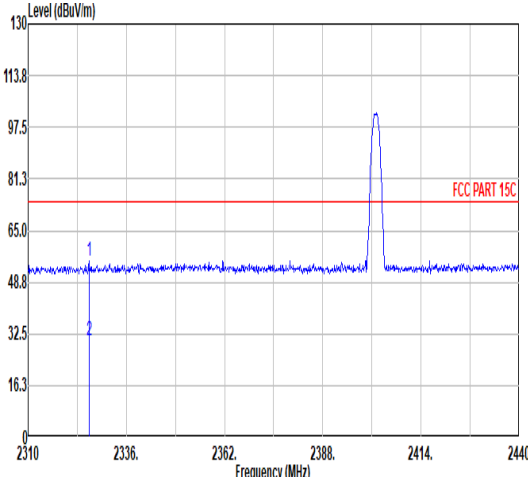
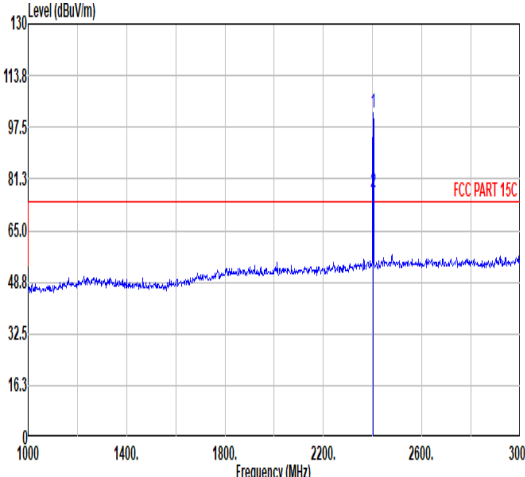


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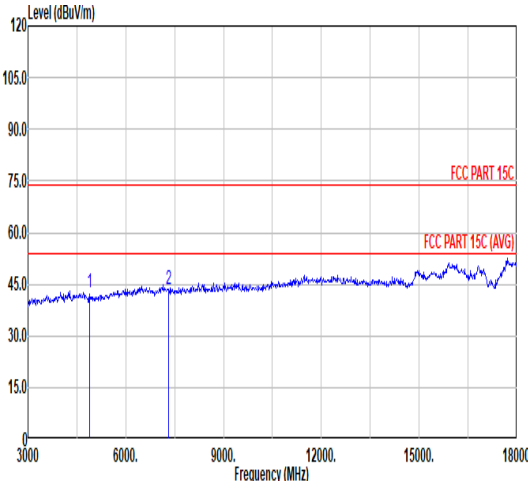
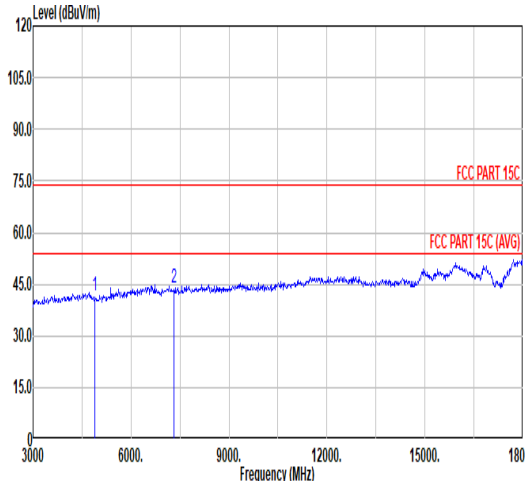


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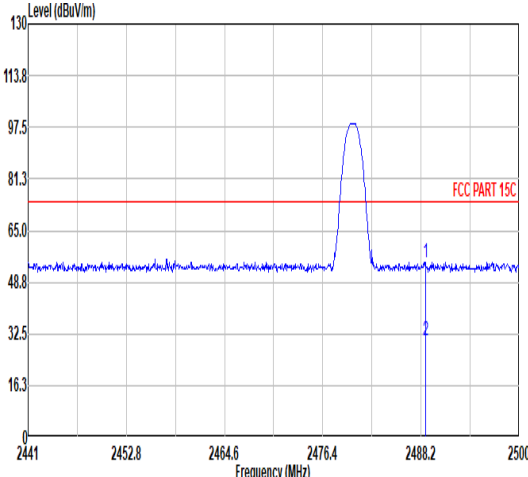
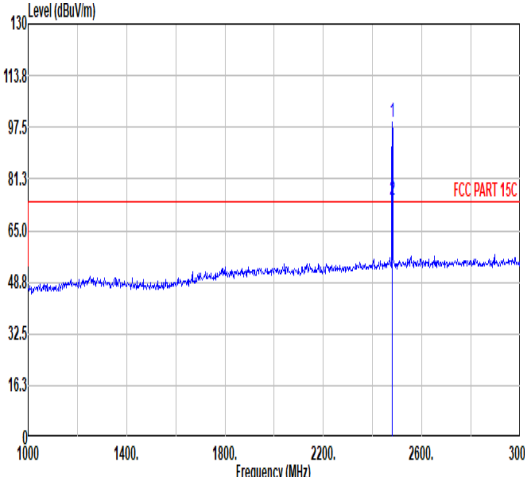


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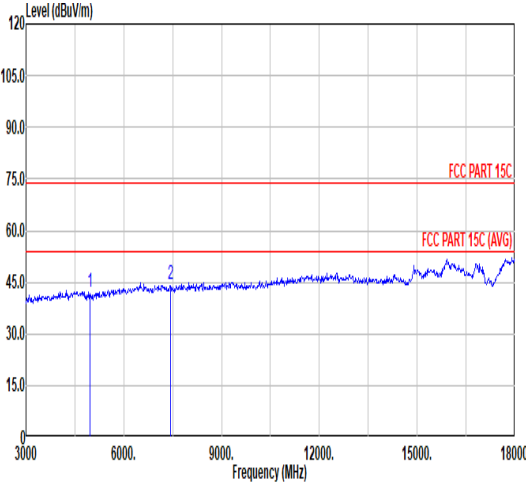
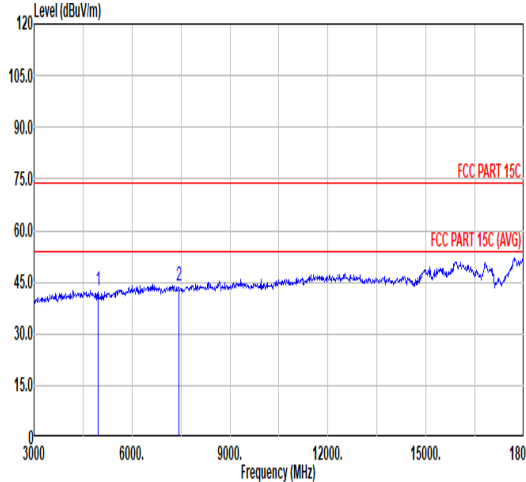


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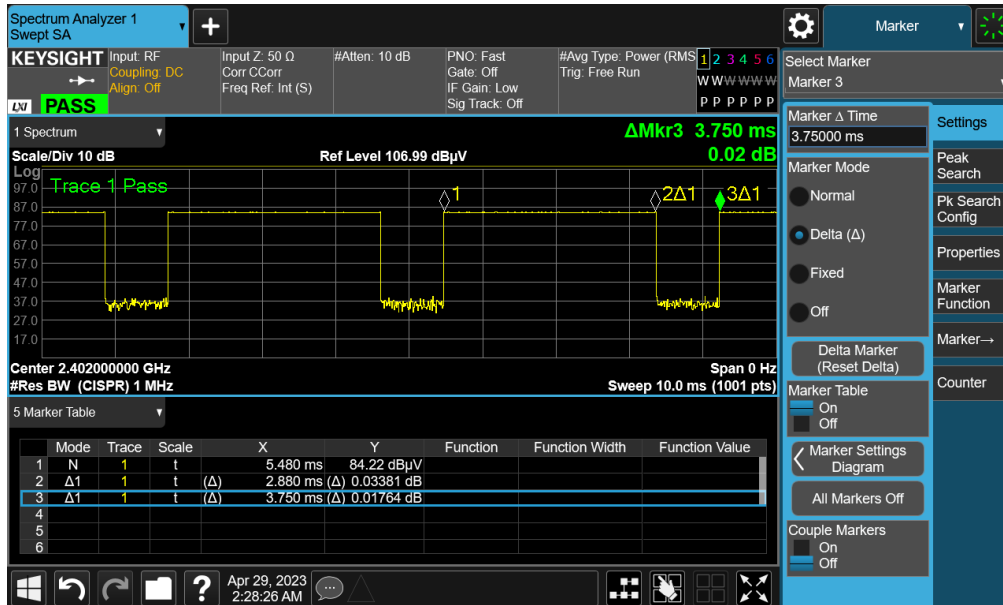
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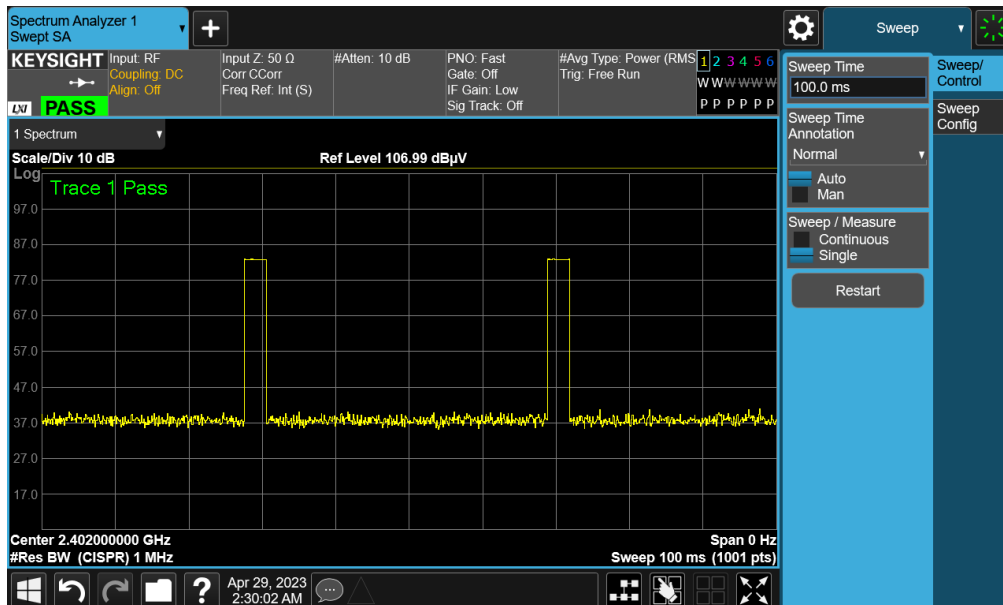
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Peak Avg	Horizontal Polarization Spectrum Plot showing Level (dBuV/m) vs Frequency (MHz). The plot includes a red line for FCC PART 15C and a blue line for the measured signal. Peaks are labeled 1 through 6. <table><thead><tr><th></th><th>Freq</th><th>Level</th><th>Over Limit</th><th>Limit</th><th>ReadAntenna</th><th>Cable Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr></thead><tbody><tr><td>1</td><td>114.39</td><td>23.59</td><td>-19.91</td><td>43.50</td><td>37.06</td><td>17.27</td><td>1.43</td><td>32.17</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>2</td><td>222.06</td><td>25.28</td><td>-20.72</td><td>46.00</td><td>39.92</td><td>15.52</td><td>2.01</td><td>32.17</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>3</td><td>389.87</td><td>20.13</td><td>-25.87</td><td>46.00</td><td>28.16</td><td>21.55</td><td>2.66</td><td>32.24</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>4</td><td>610.06</td><td>24.85</td><td>-21.15</td><td>46.00</td><td>27.94</td><td>25.94</td><td>3.34</td><td>32.37</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>5</td><td>740.04</td><td>28.36</td><td>-17.64</td><td>46.00</td><td>28.95</td><td>27.91</td><td>3.68</td><td>32.18</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>6</td><td>873.90</td><td>29.59</td><td>-16.41</td><td>46.00</td><td>28.07</td><td>29.20</td><td>3.98</td><td>31.66</td><td>---</td><td>---</td><td>Peak</td></tr></tbody></table>												Freq	Level	Over Limit	Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark		MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	1	114.39	23.59	-19.91	43.50	37.06	17.27	1.43	32.17	---	---	Peak	2	222.06	25.28	-20.72	46.00	39.92	15.52	2.01	32.17	---	---	Peak	3	389.87	20.13	-25.87	46.00	28.16	21.55	2.66	32.24	---	---	Peak	4	610.06	24.85	-21.15	46.00	27.94	25.94	3.34	32.37	---	---	Peak	5	740.04	28.36	-17.64	46.00	28.95	27.91	3.68	32.18	---	---	Peak	6	873.90	29.59	-16.41	46.00	28.07	29.20	3.98	31.66	---	---	Peak
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4	610.06	24.85	-21.15	46.00	27.94	25.94	3.34	32.37	---	---	Peak																																																																																													
5	740.04	28.36	-17.64	46.00	28.95	27.91	3.68	32.18	---	---	Peak																																																																																													
6	873.90	29.59	-16.41	46.00	28.07	29.20	3.98	31.66	---	---	Peak																																																																																													
	Vertical Polarization Spectrum Plot showing Level (dBuV/m) vs Frequency (MHz). The plot includes a red line for FCC PART 15C and a blue line for the measured signal. Peaks are labeled 1 through 6. <table><thead><tr><th></th><th>Freq</th><th>Level</th><th>Over Limit</th><th>Limit</th><th>ReadAntenna</th><th>Cable Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr></thead><tbody><tr><td>1</td><td>53.28</td><td>26.48</td><td>-13.52</td><td>40.00</td><td>44.59</td><td>13.65</td><td>0.76</td><td>32.52</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>2</td><td>104.69</td><td>26.69</td><td>-16.81</td><td>43.50</td><td>40.93</td><td>16.55</td><td>1.38</td><td>32.17</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>3</td><td>223.03</td><td>22.27</td><td>-23.73</td><td>46.00</td><td>36.79</td><td>15.63</td><td>2.02</td><td>32.17</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>4</td><td>470.38</td><td>22.79</td><td>-23.21</td><td>46.00</td><td>29.00</td><td>23.46</td><td>2.93</td><td>32.60</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>5</td><td>620.73</td><td>27.45</td><td>-18.55</td><td>46.00</td><td>30.35</td><td>26.09</td><td>3.37</td><td>32.36</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>6</td><td>881.66</td><td>30.35</td><td>-15.65</td><td>46.00</td><td>28.79</td><td>29.17</td><td>4.00</td><td>31.61</td><td>---</td><td>---</td><td>Peak</td></tr></tbody></table>												Freq	Level	Over Limit	Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark		MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	1	53.28	26.48	-13.52	40.00	44.59	13.65	0.76	32.52	---	---	Peak	2	104.69	26.69	-16.81	43.50	40.93	16.55	1.38	32.17	---	---	Peak	3	223.03	22.27	-23.73	46.00	36.79	15.63	2.02	32.17	---	---	Peak	4	470.38	22.79	-23.21	46.00	29.00	23.46	2.93	32.60	---	---	Peak	5	620.73	27.45	-18.55	46.00	30.35	26.09	3.37	32.36	---	---	Peak	6	881.66	30.35	-15.65	46.00	28.79	29.17	4.00	31.61	---	---	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.