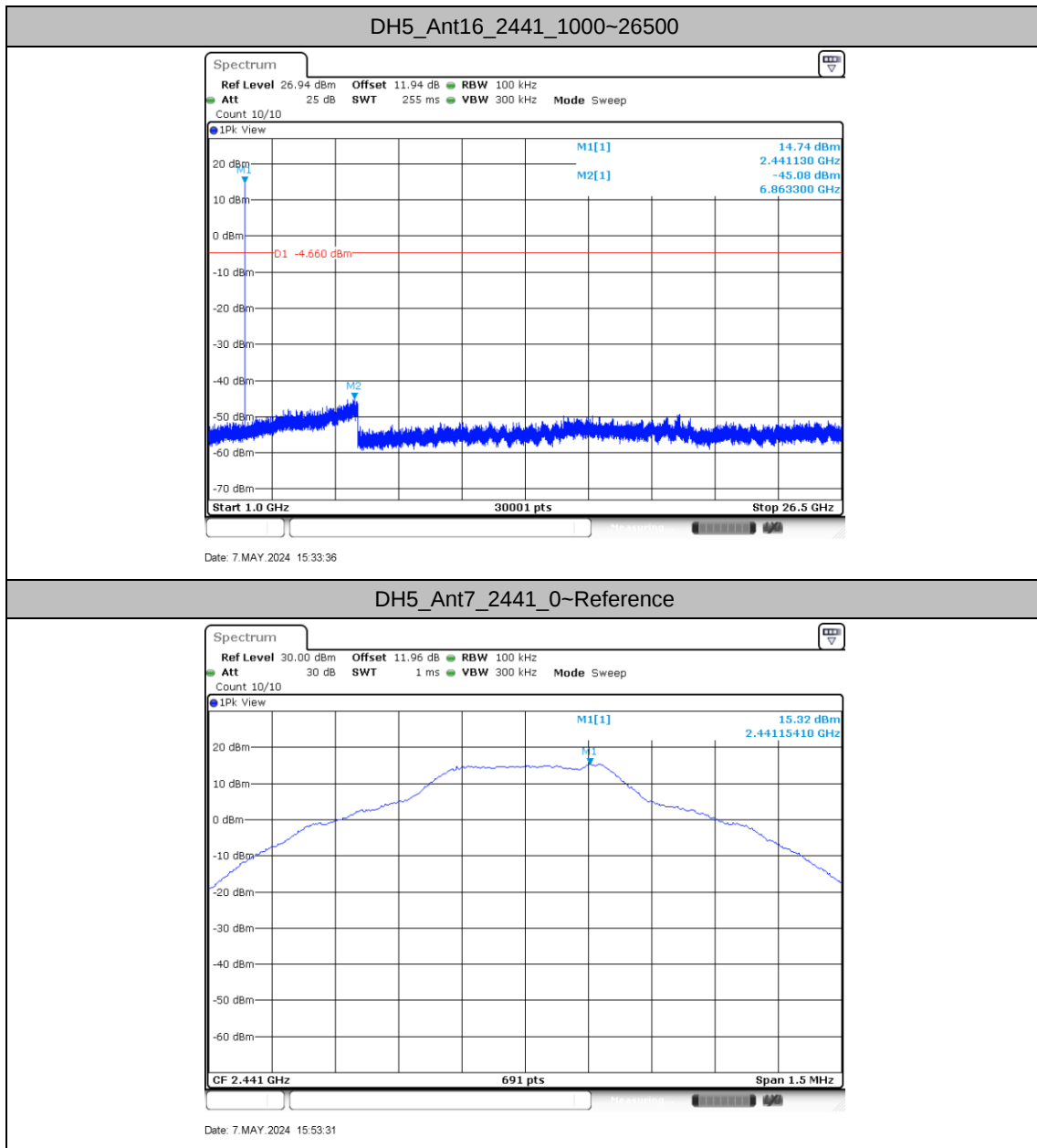
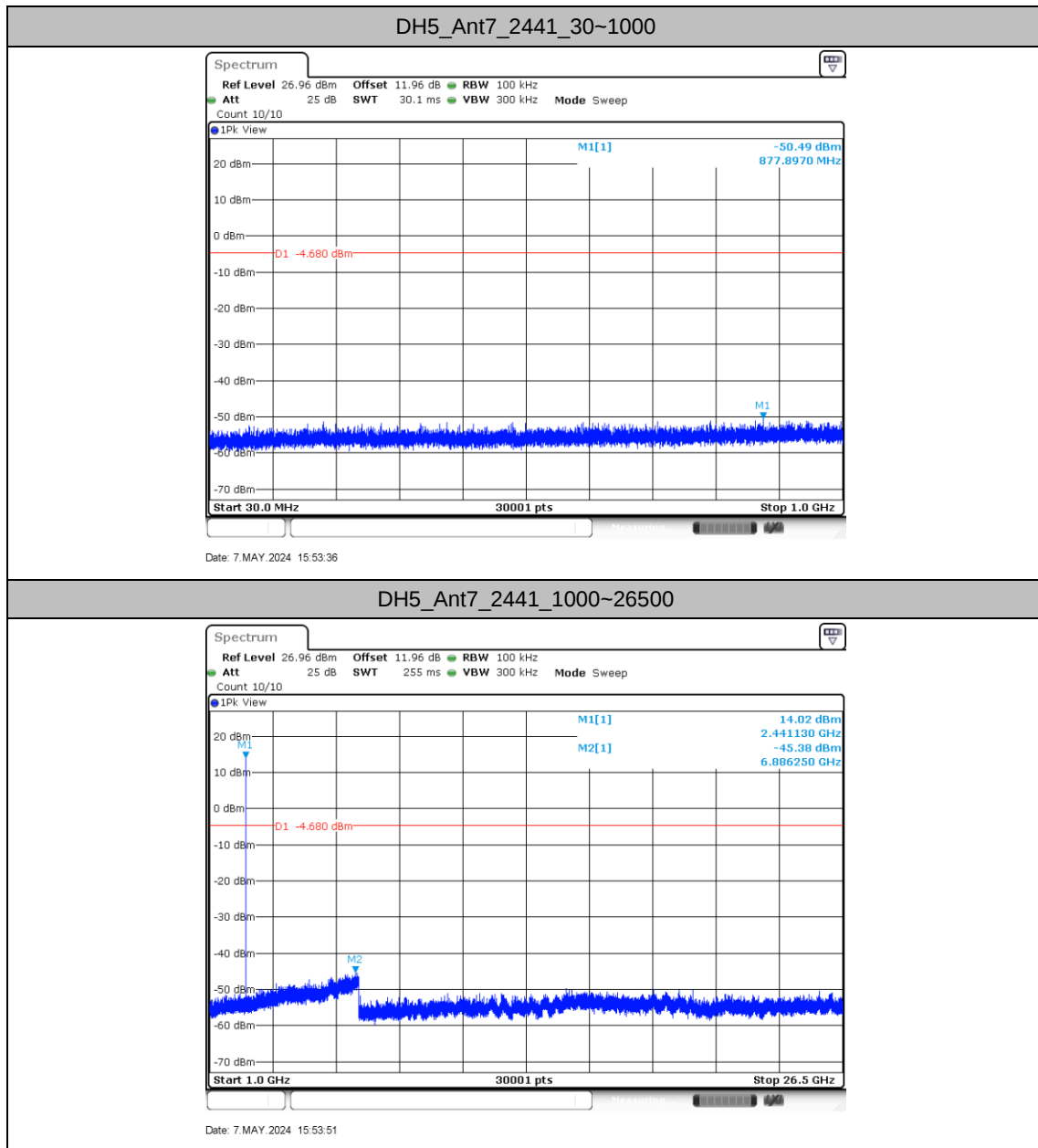
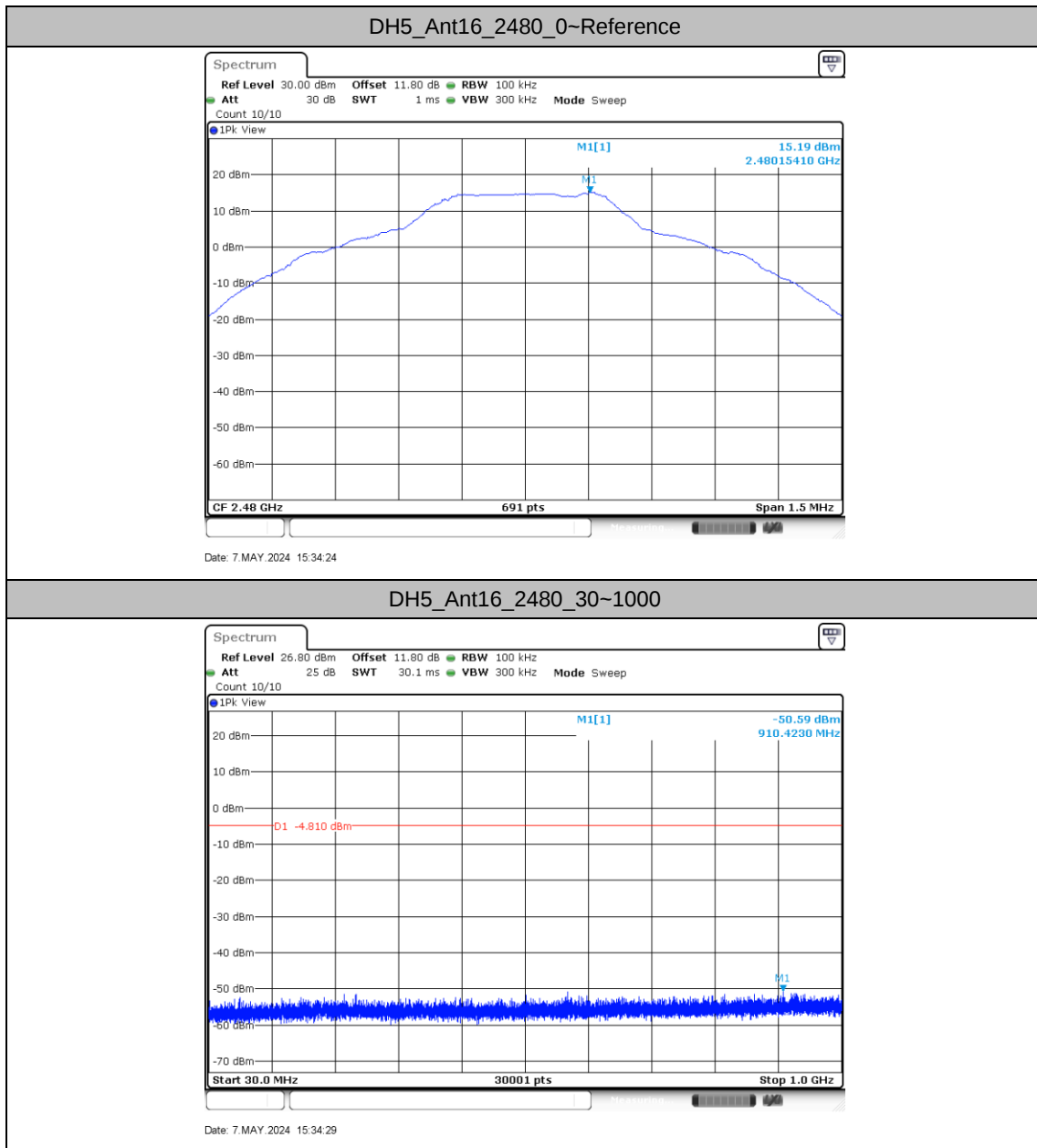
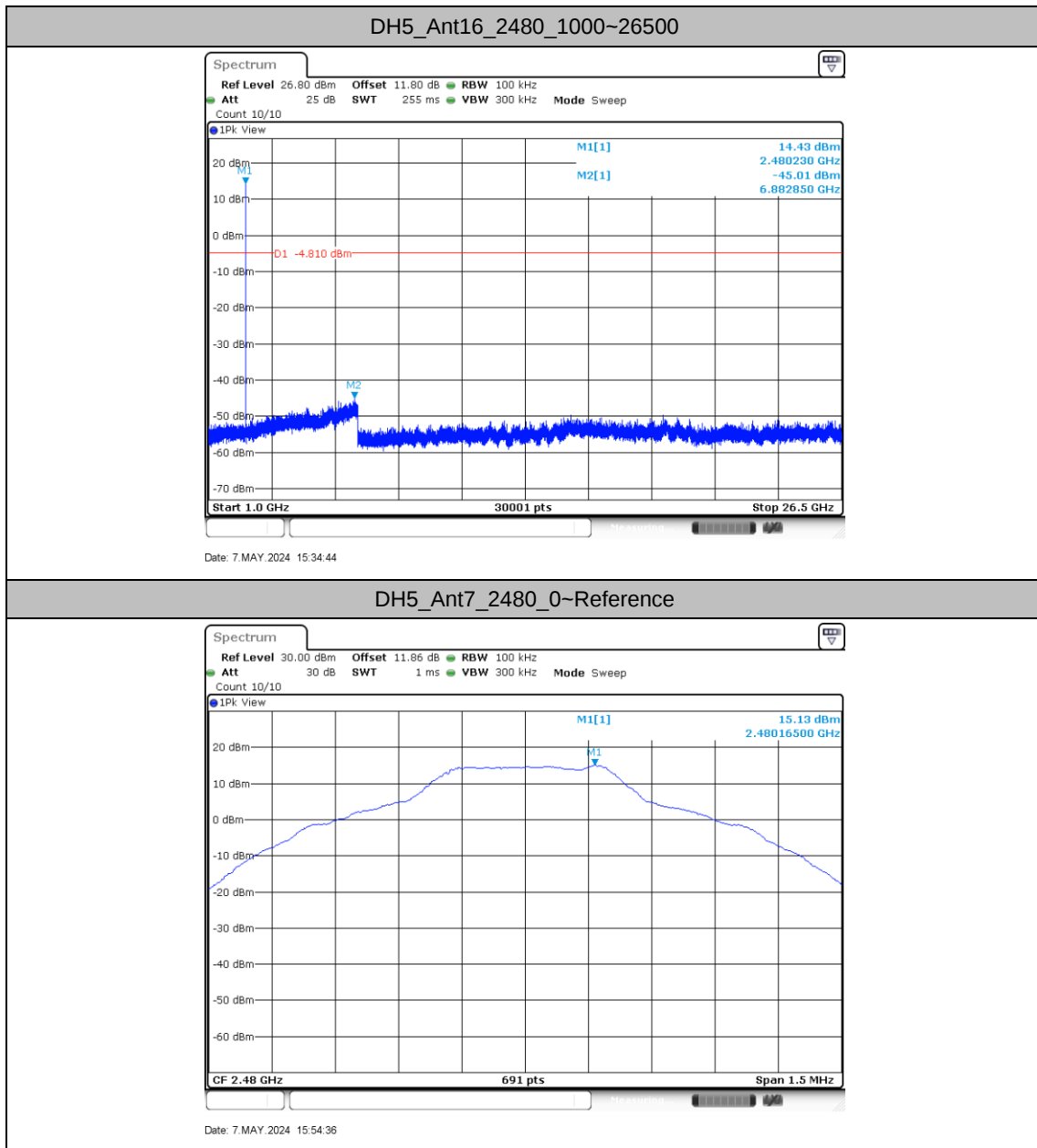


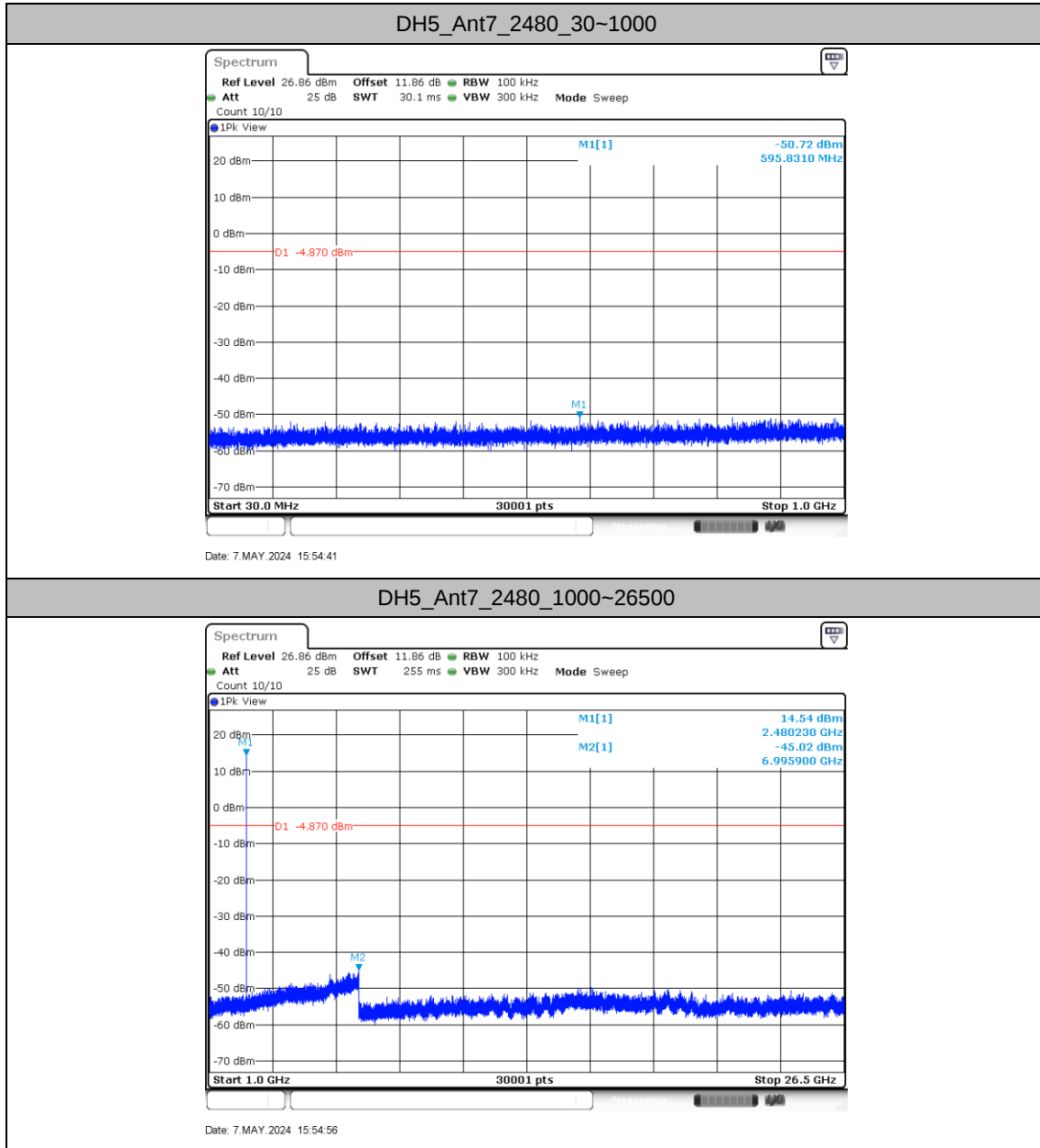


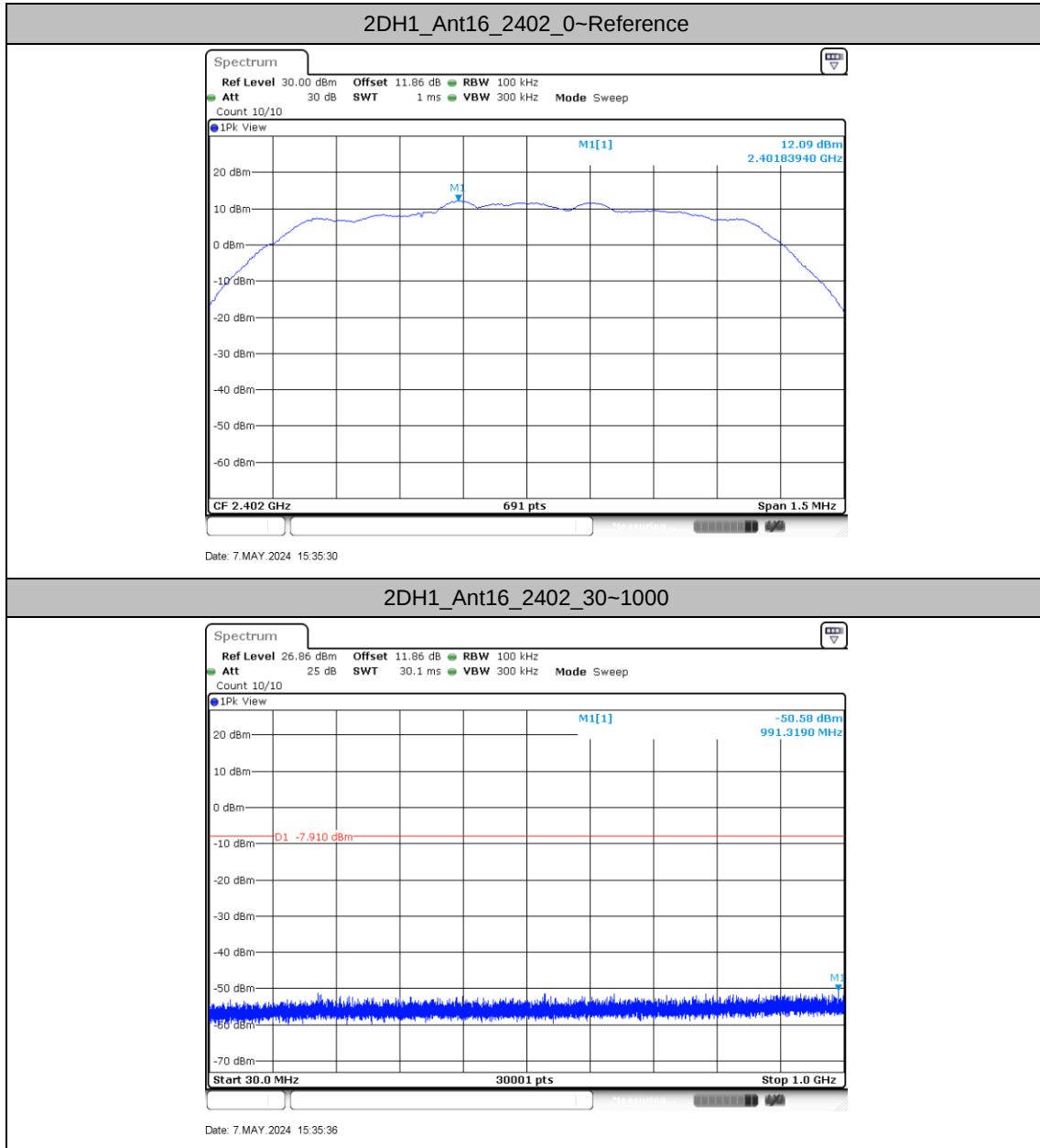


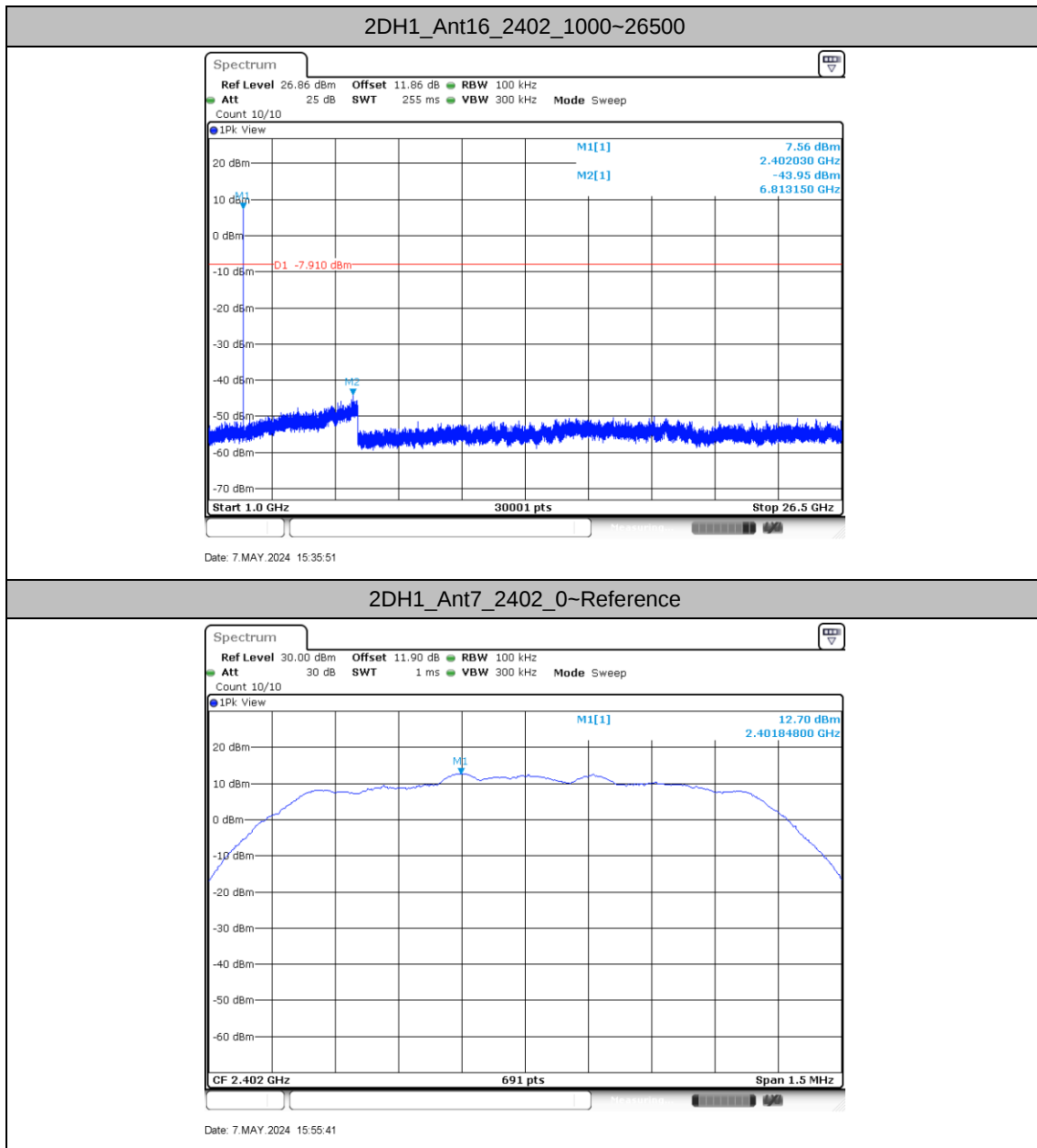


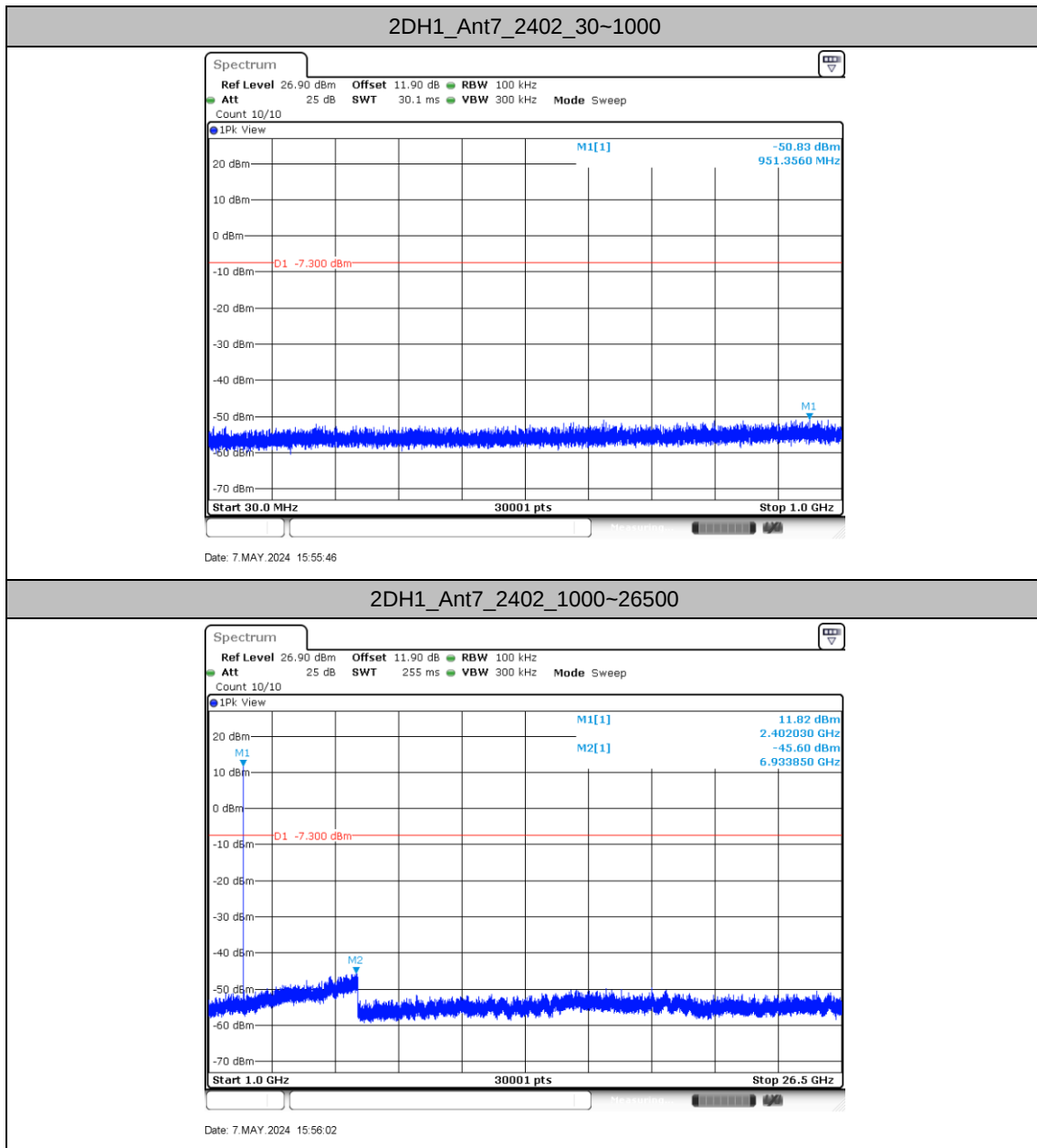


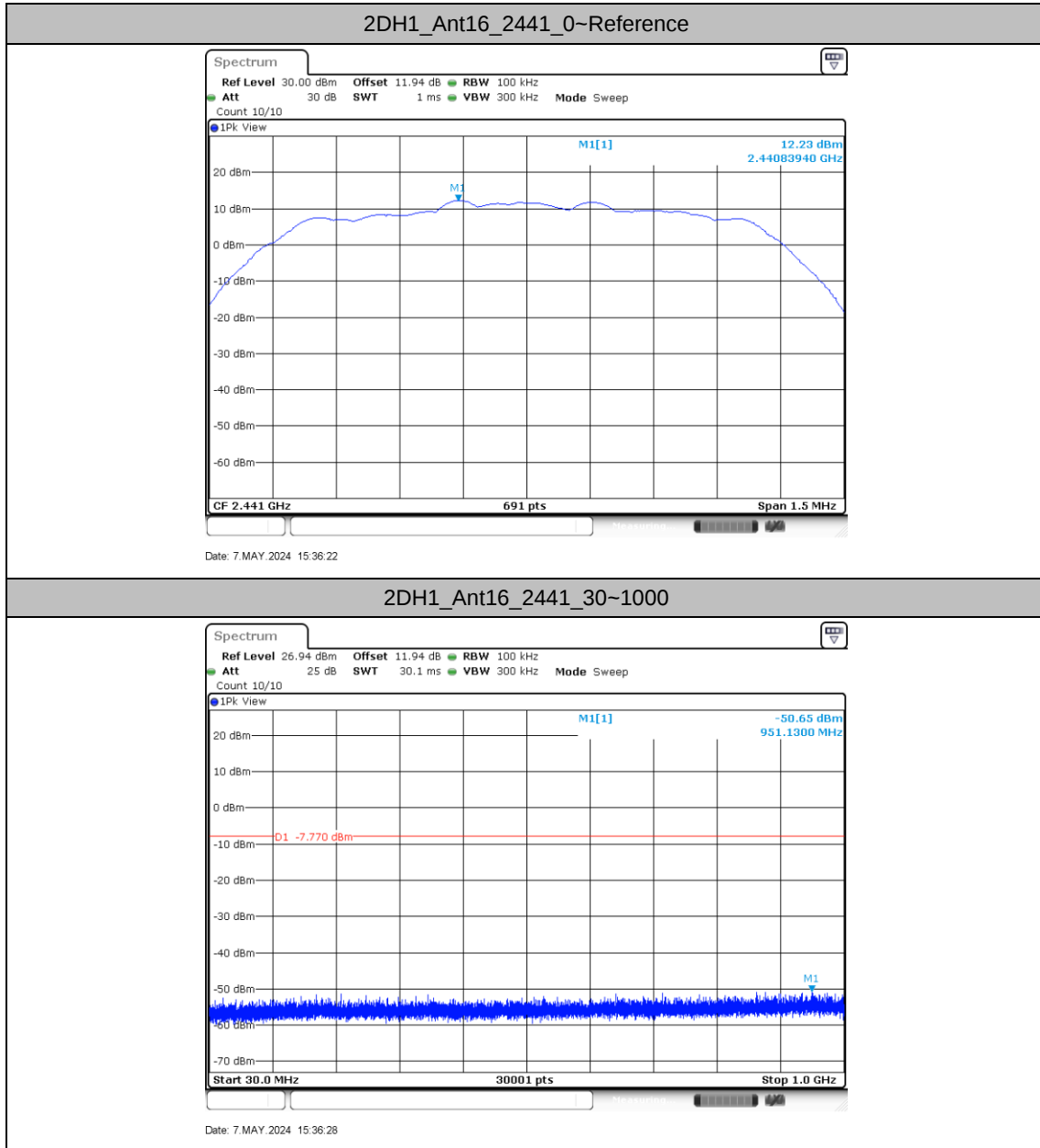


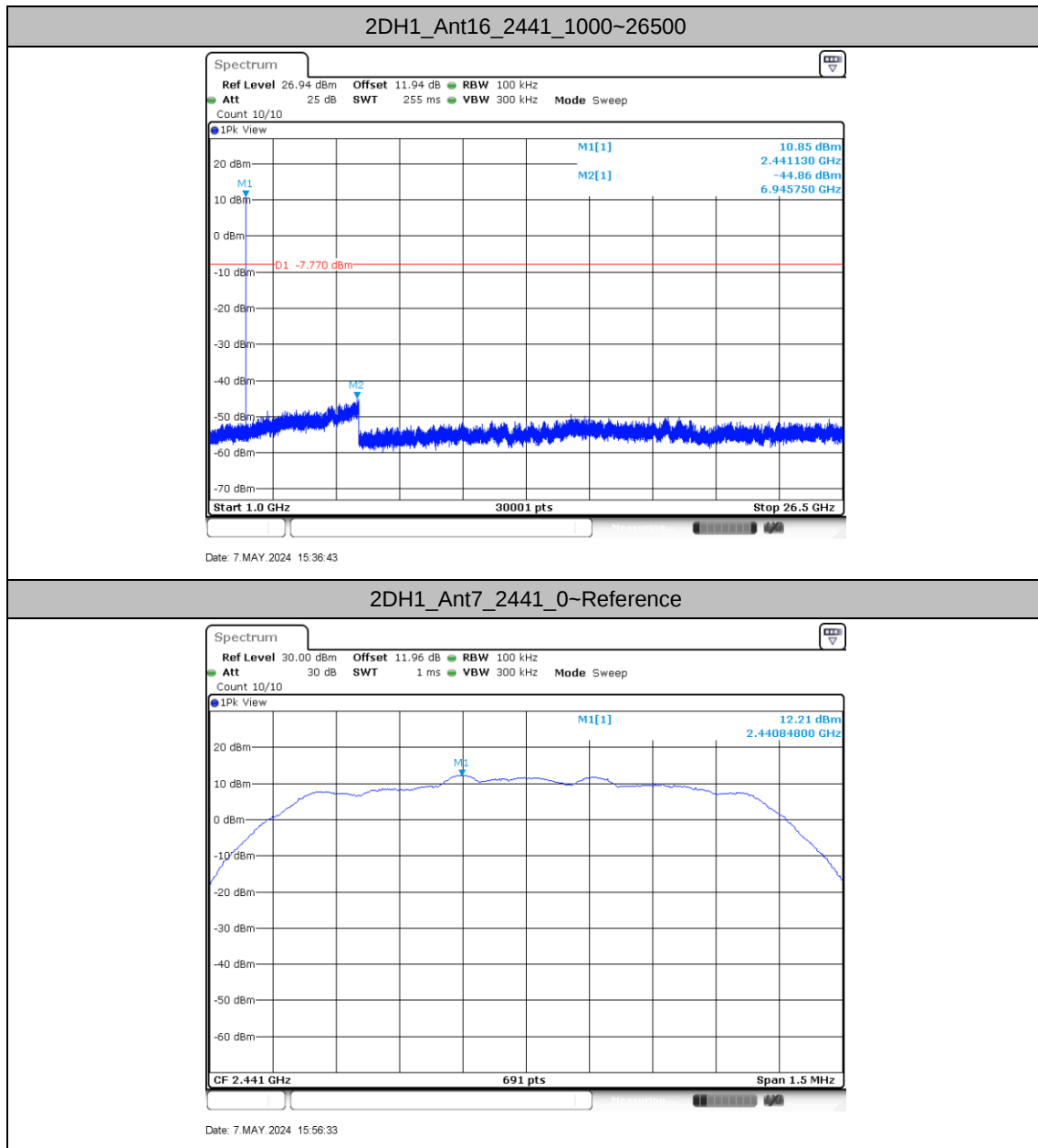


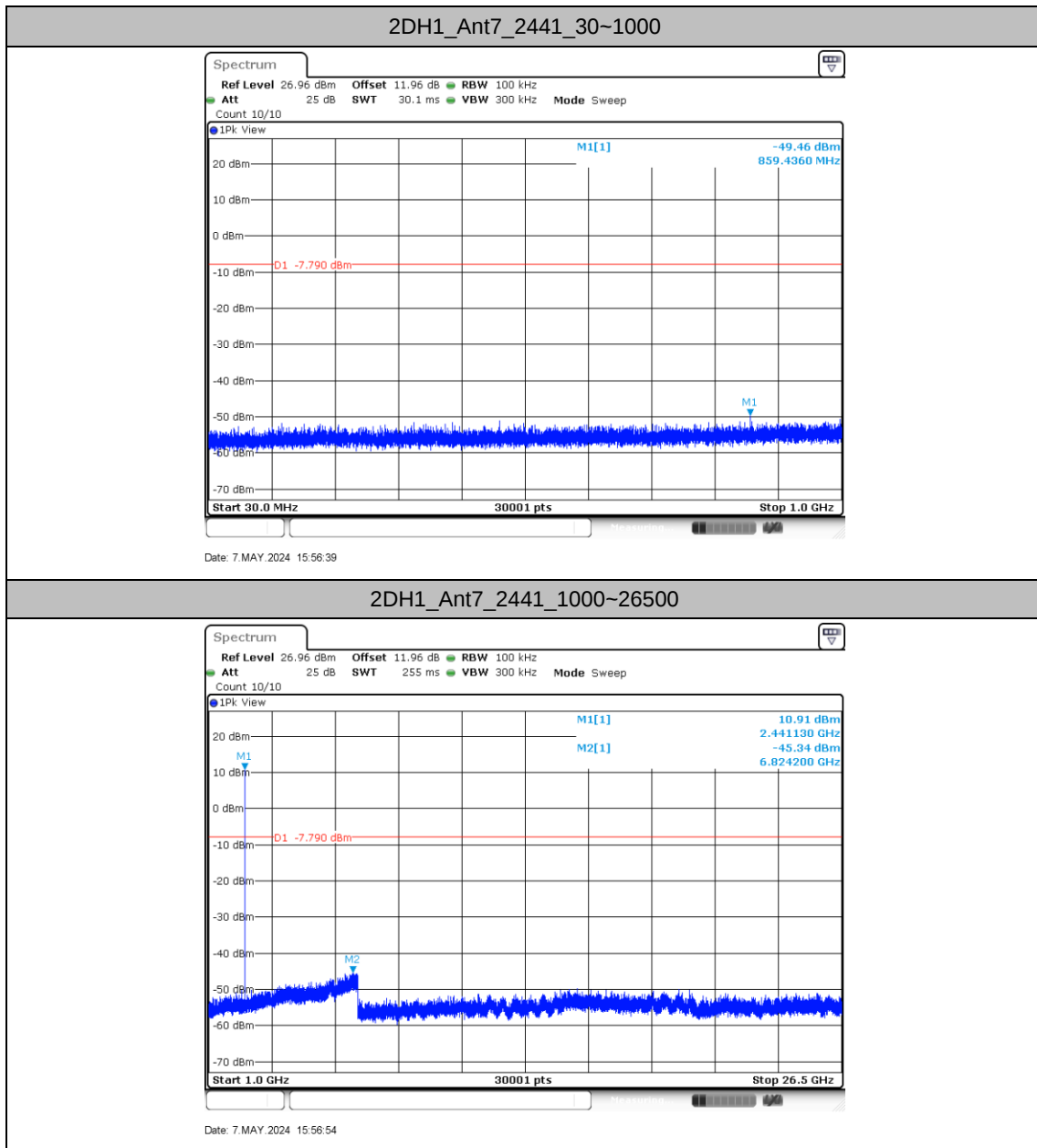


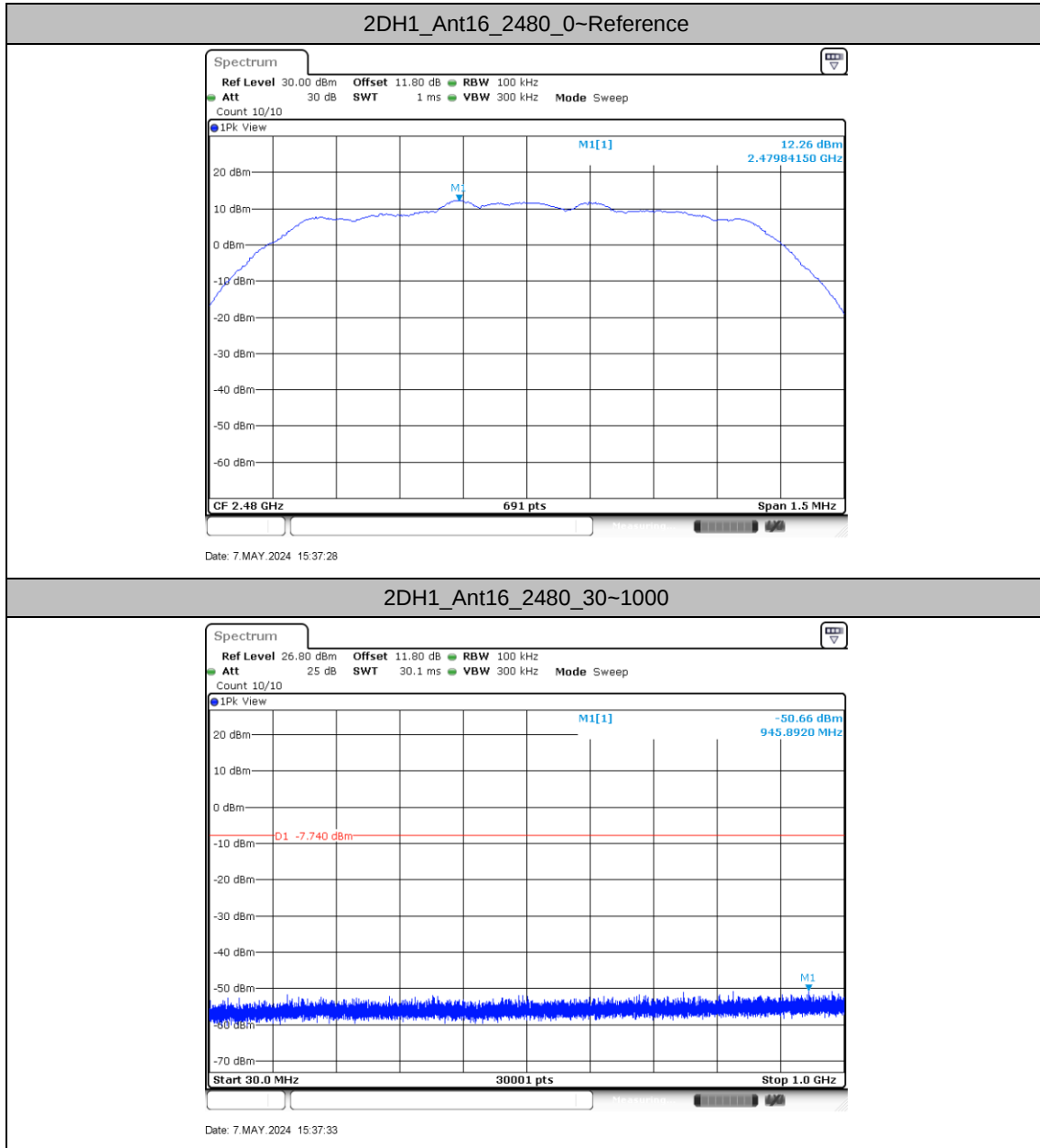


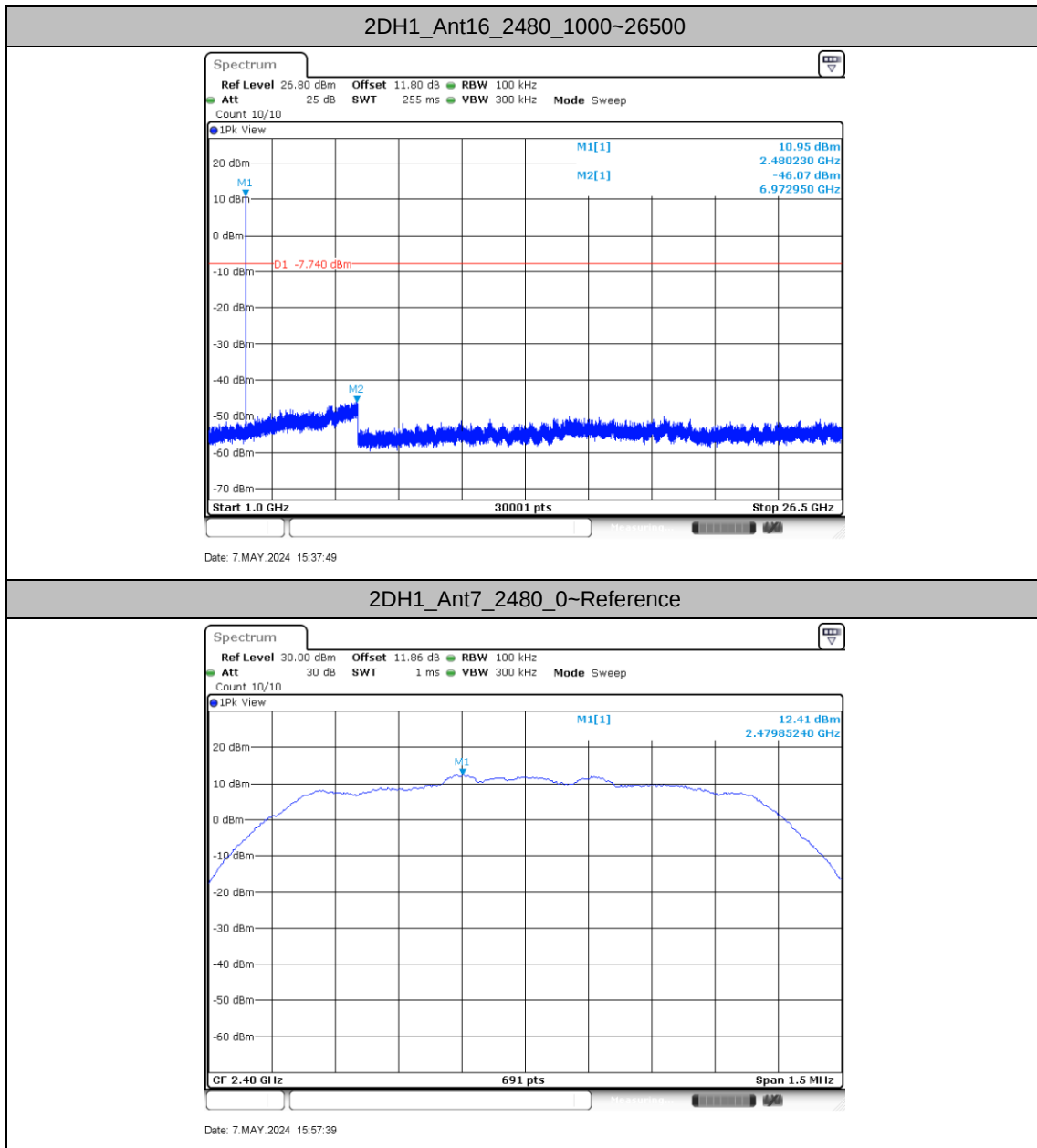


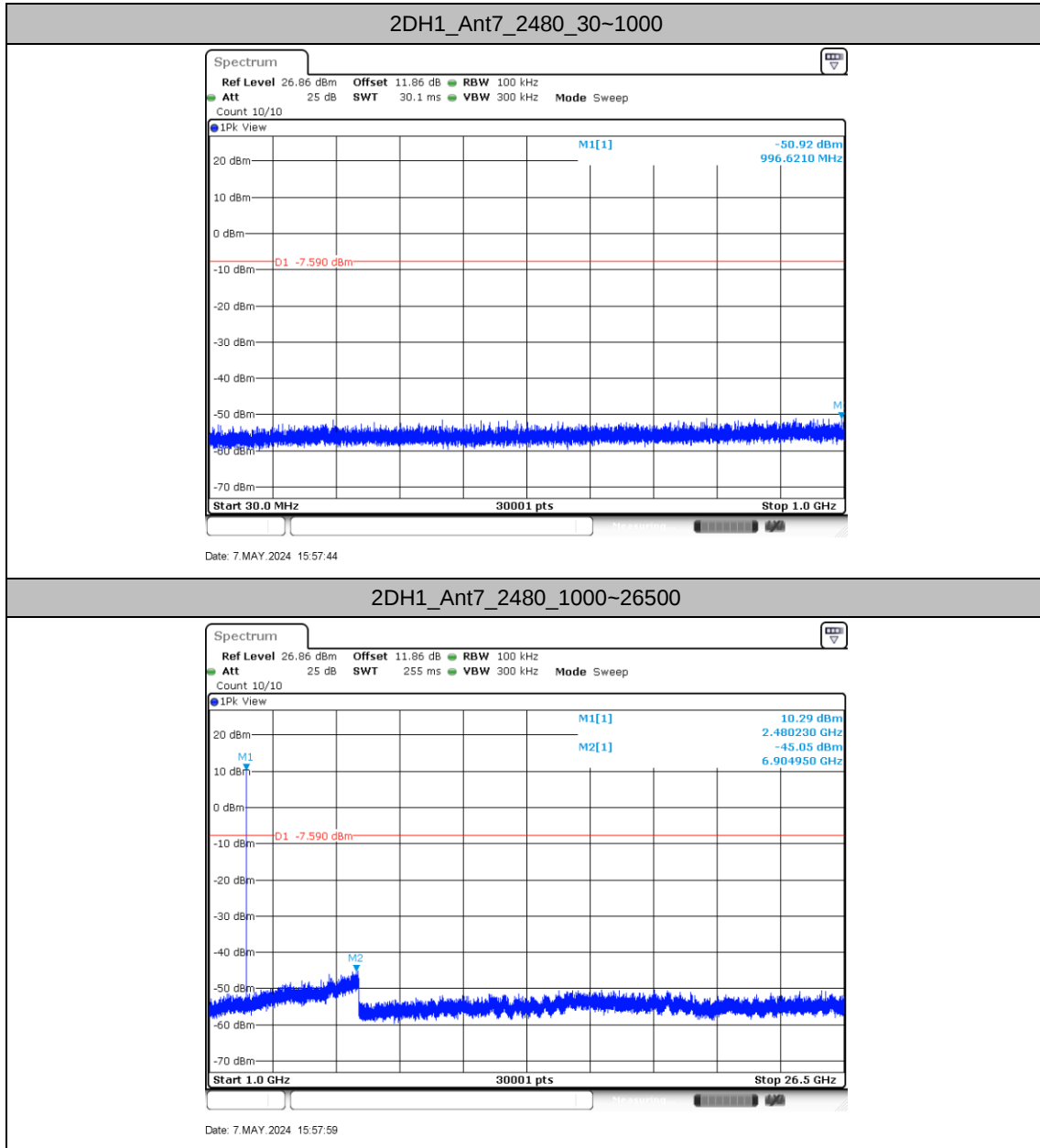


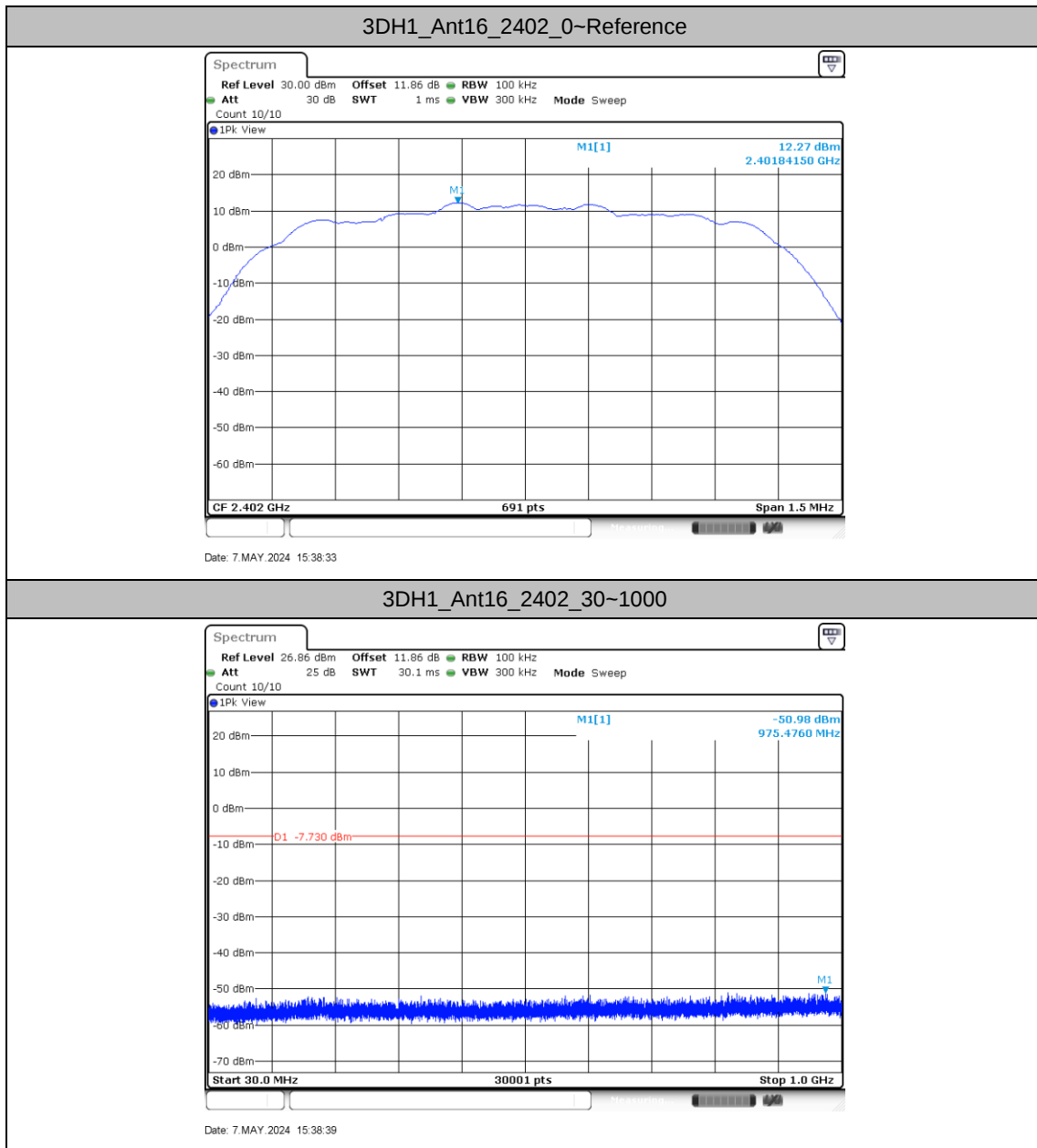


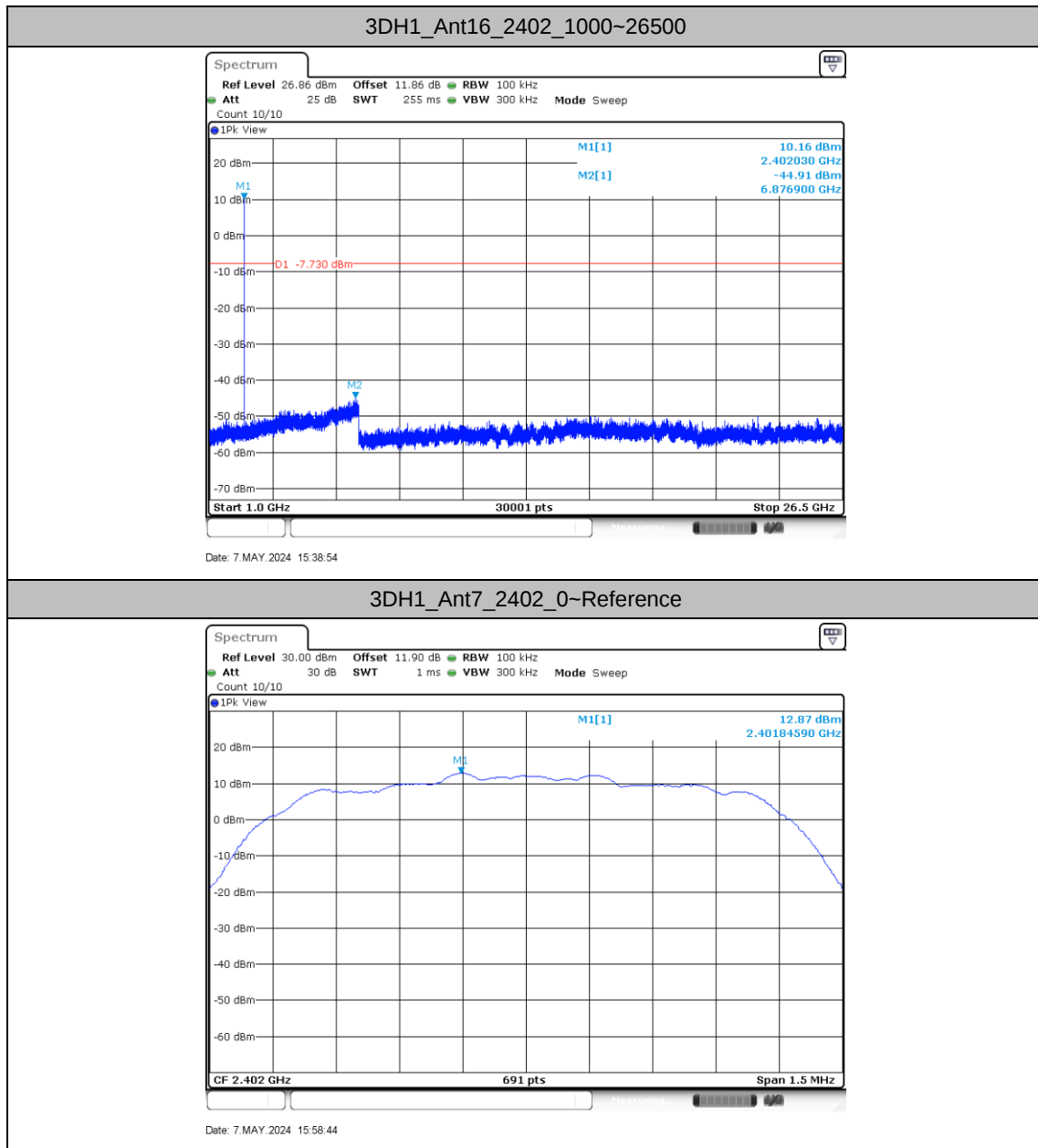


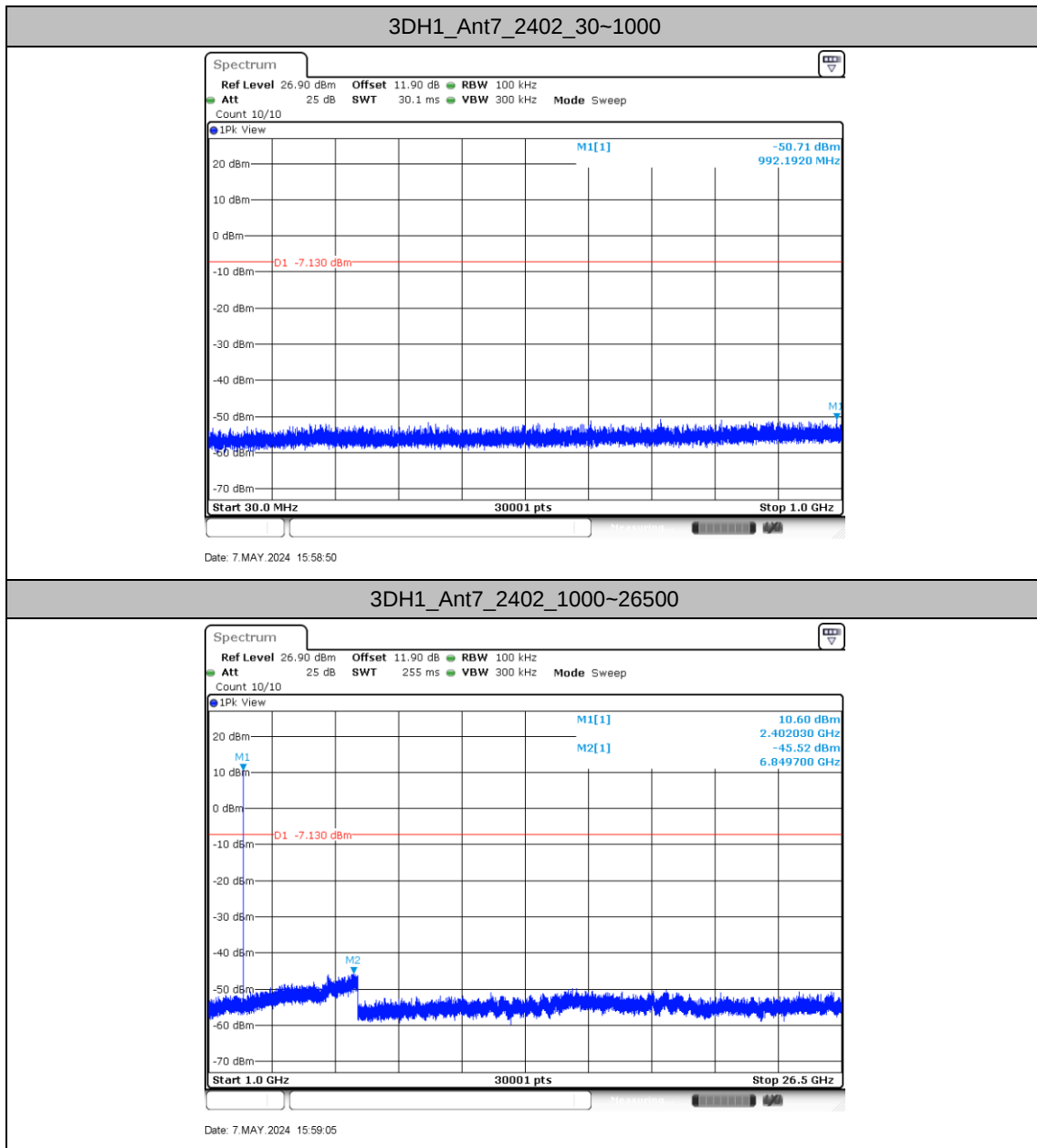


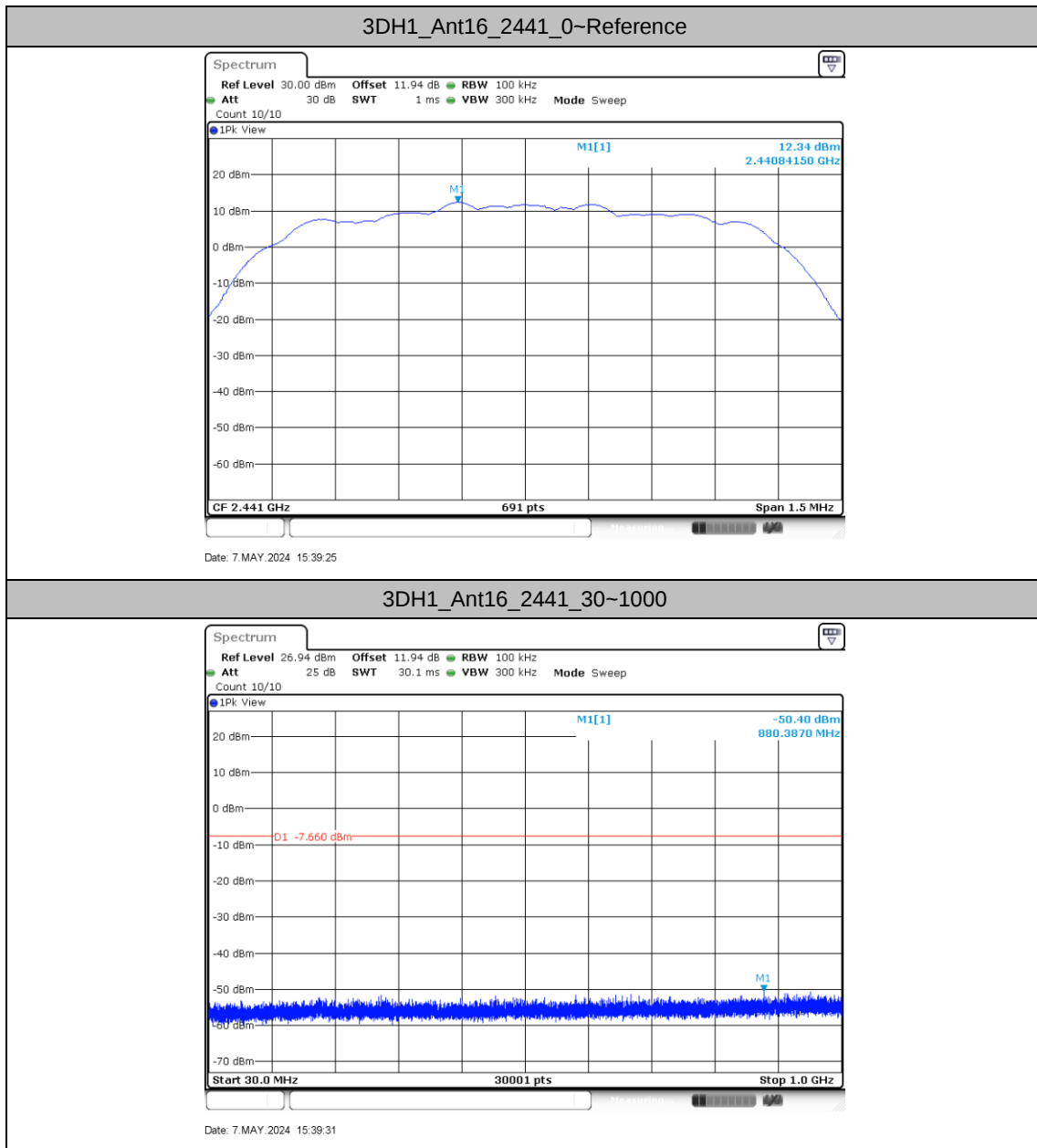


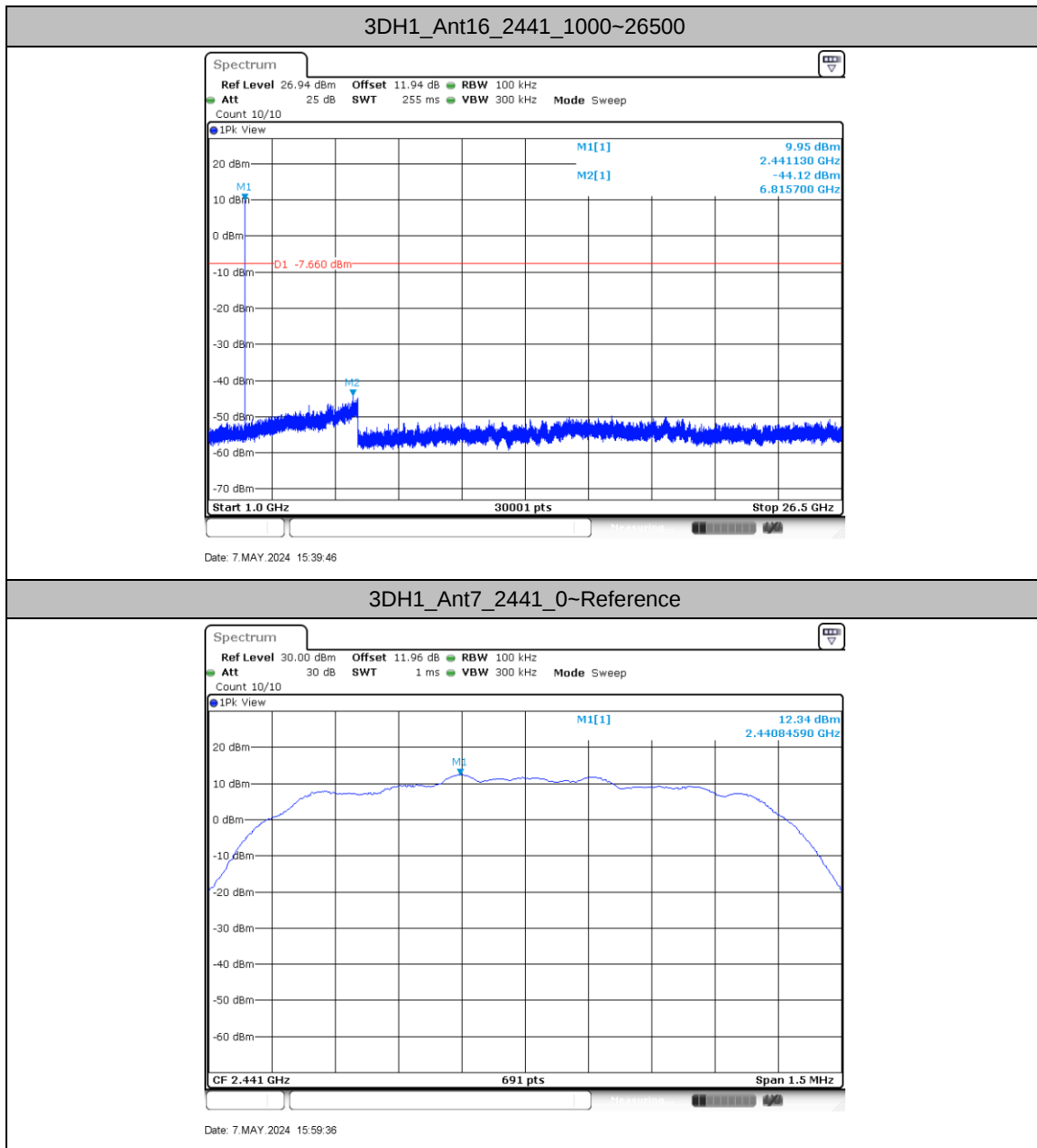


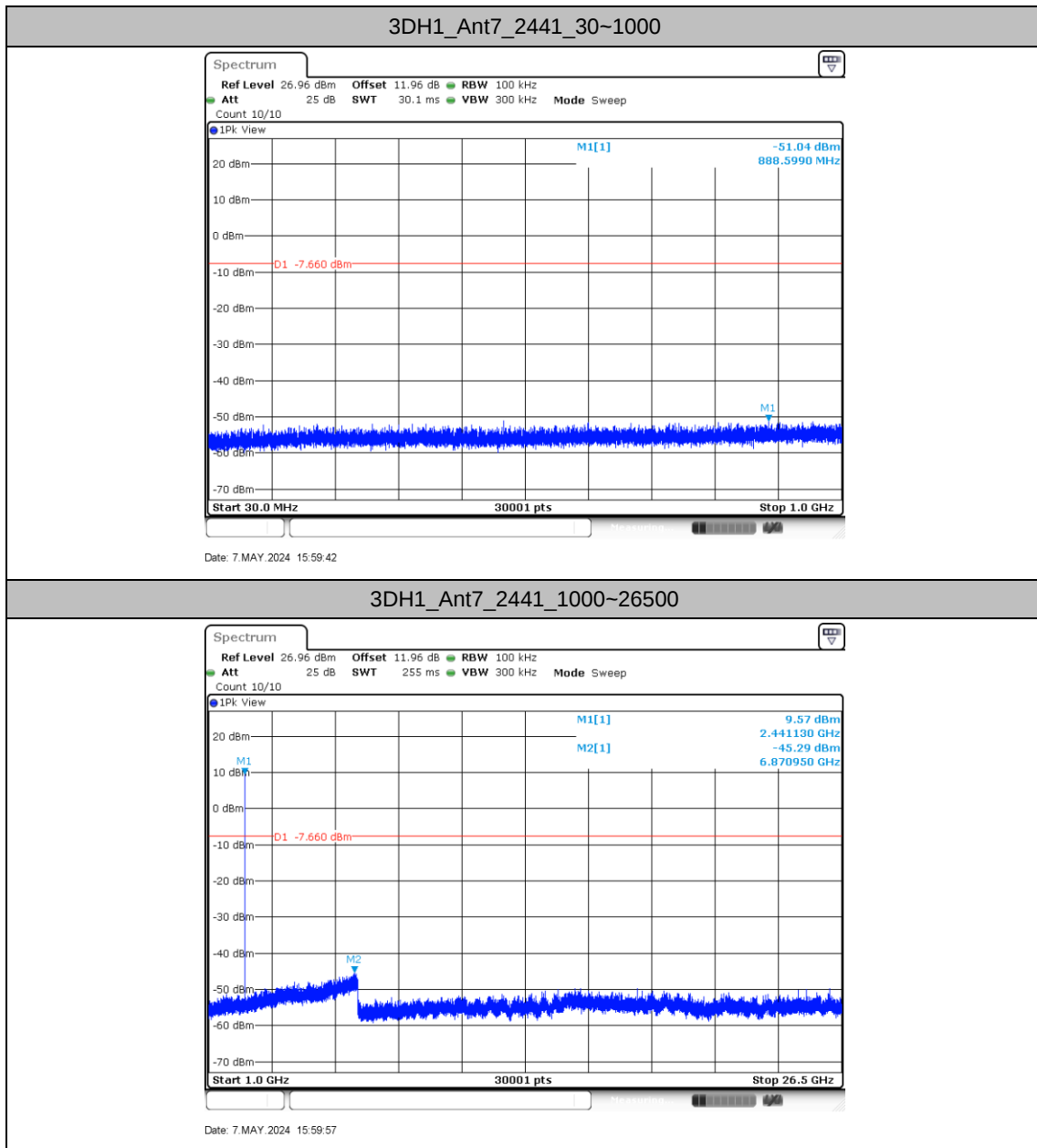


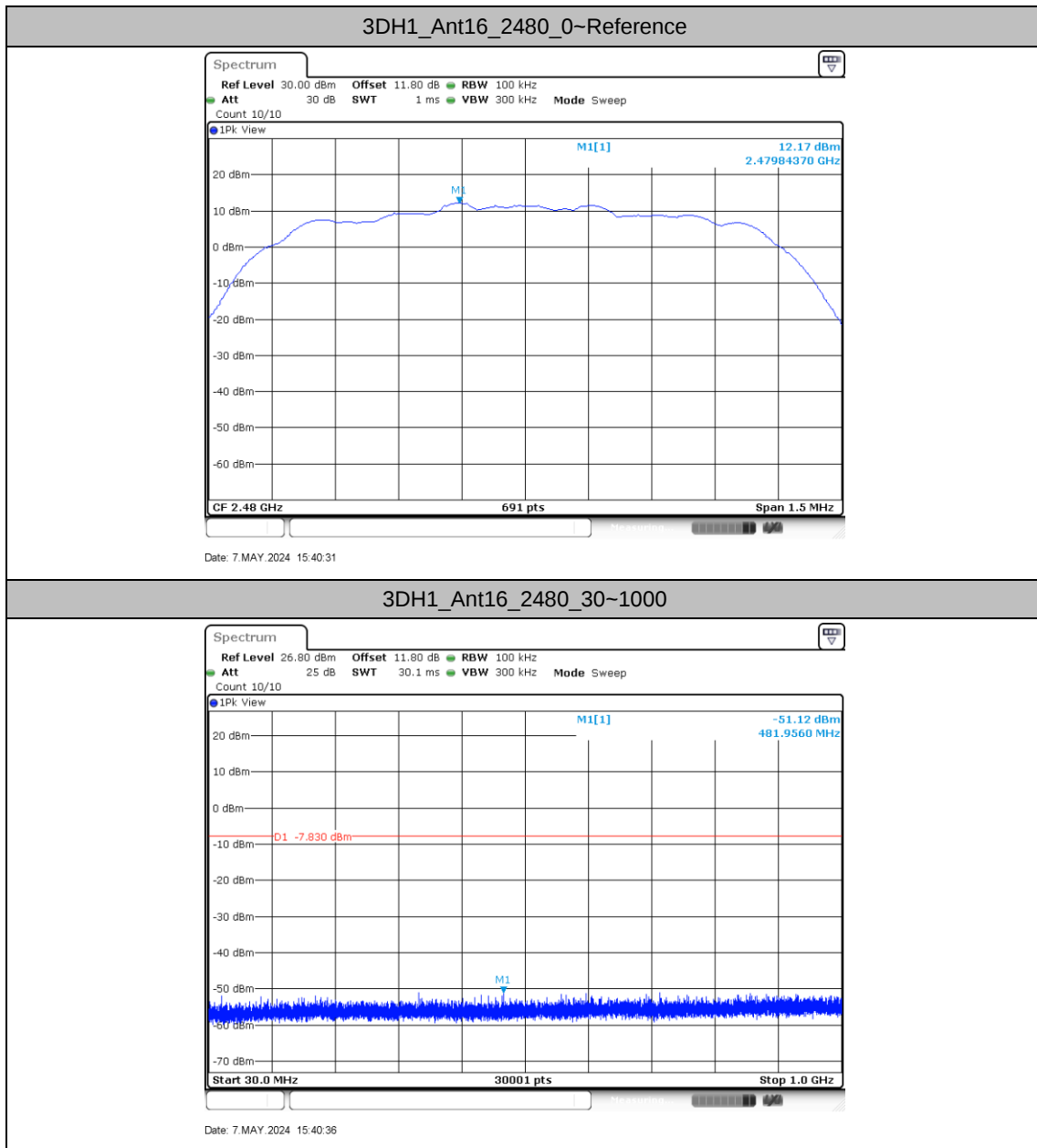


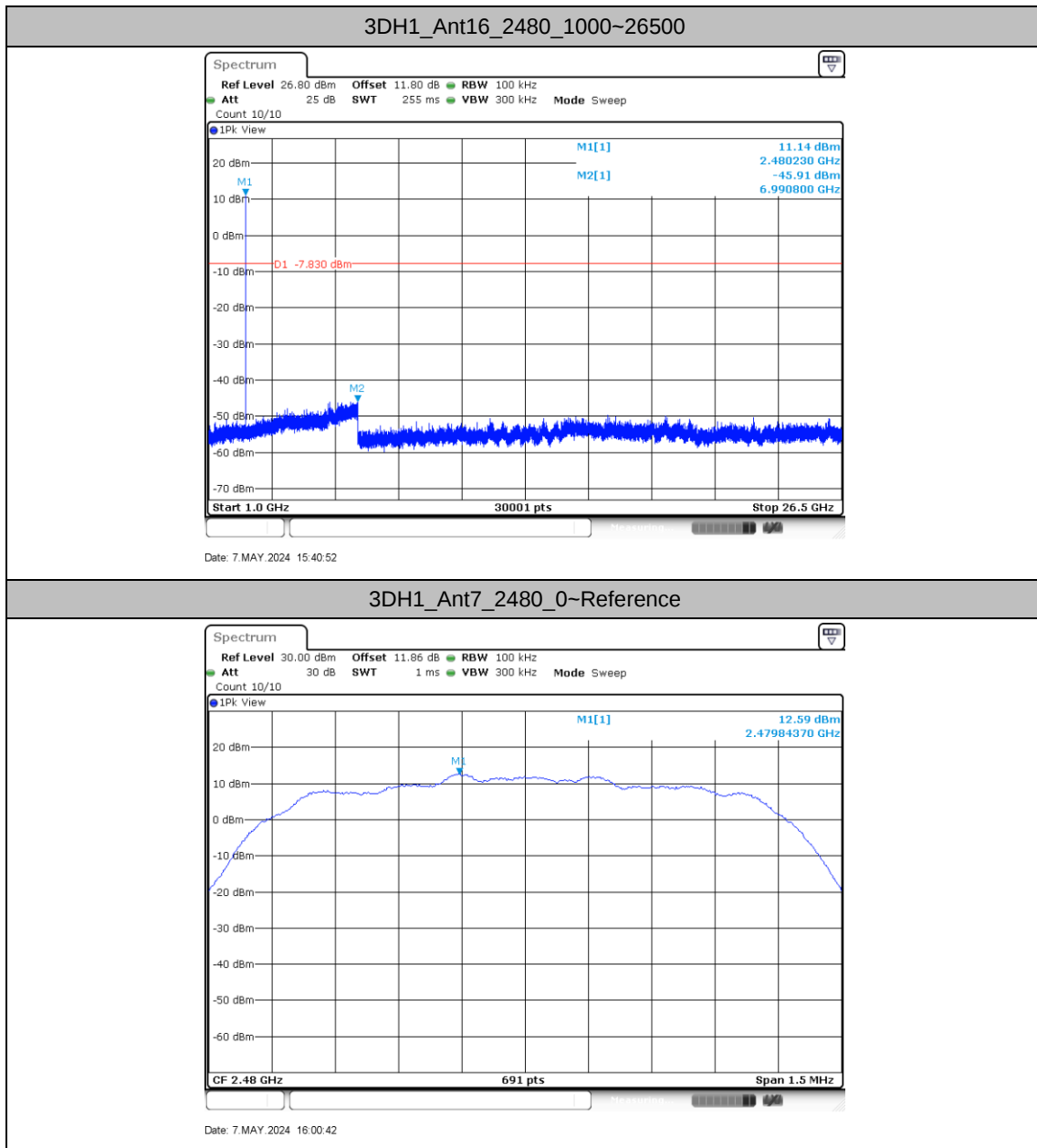


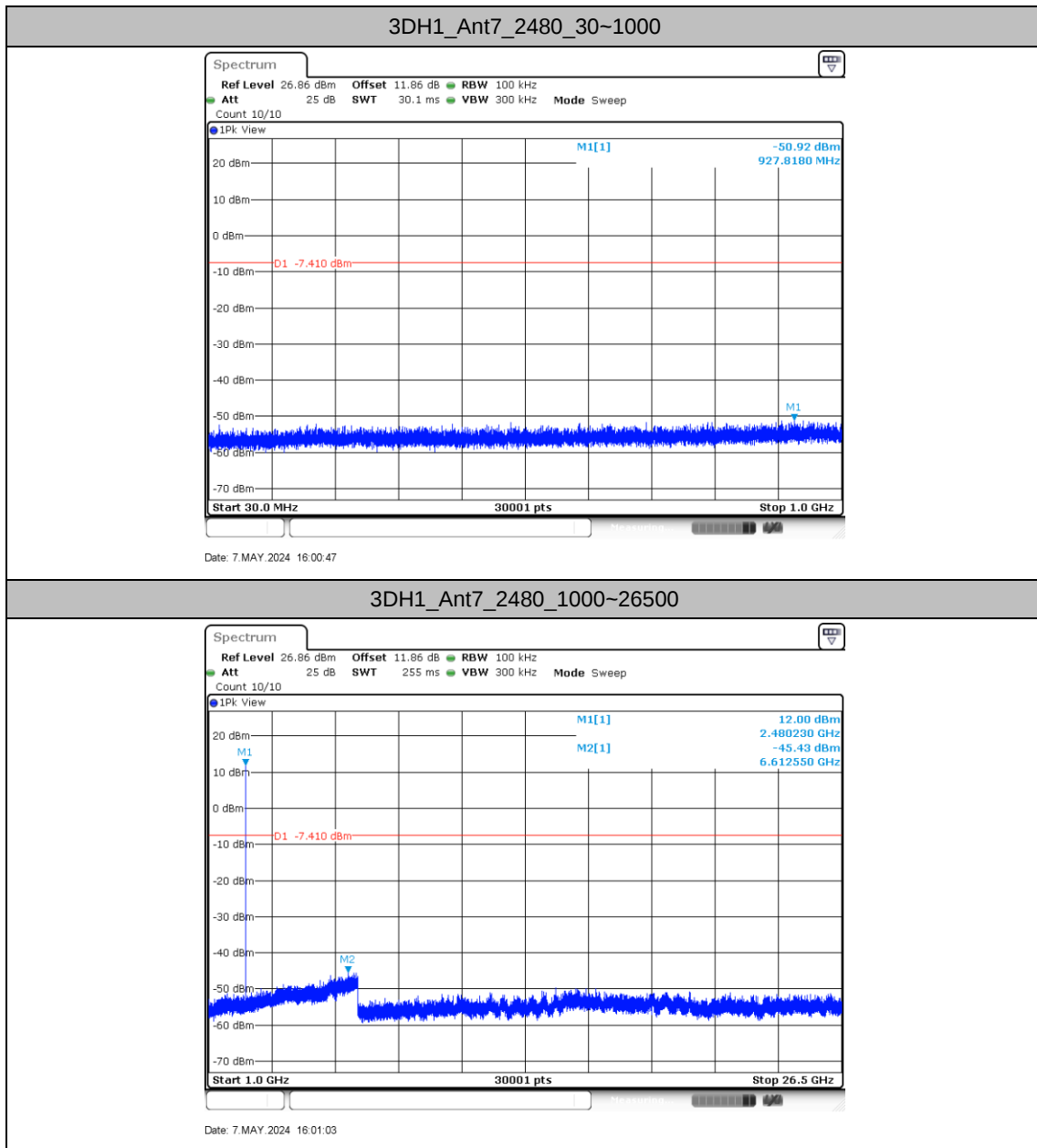






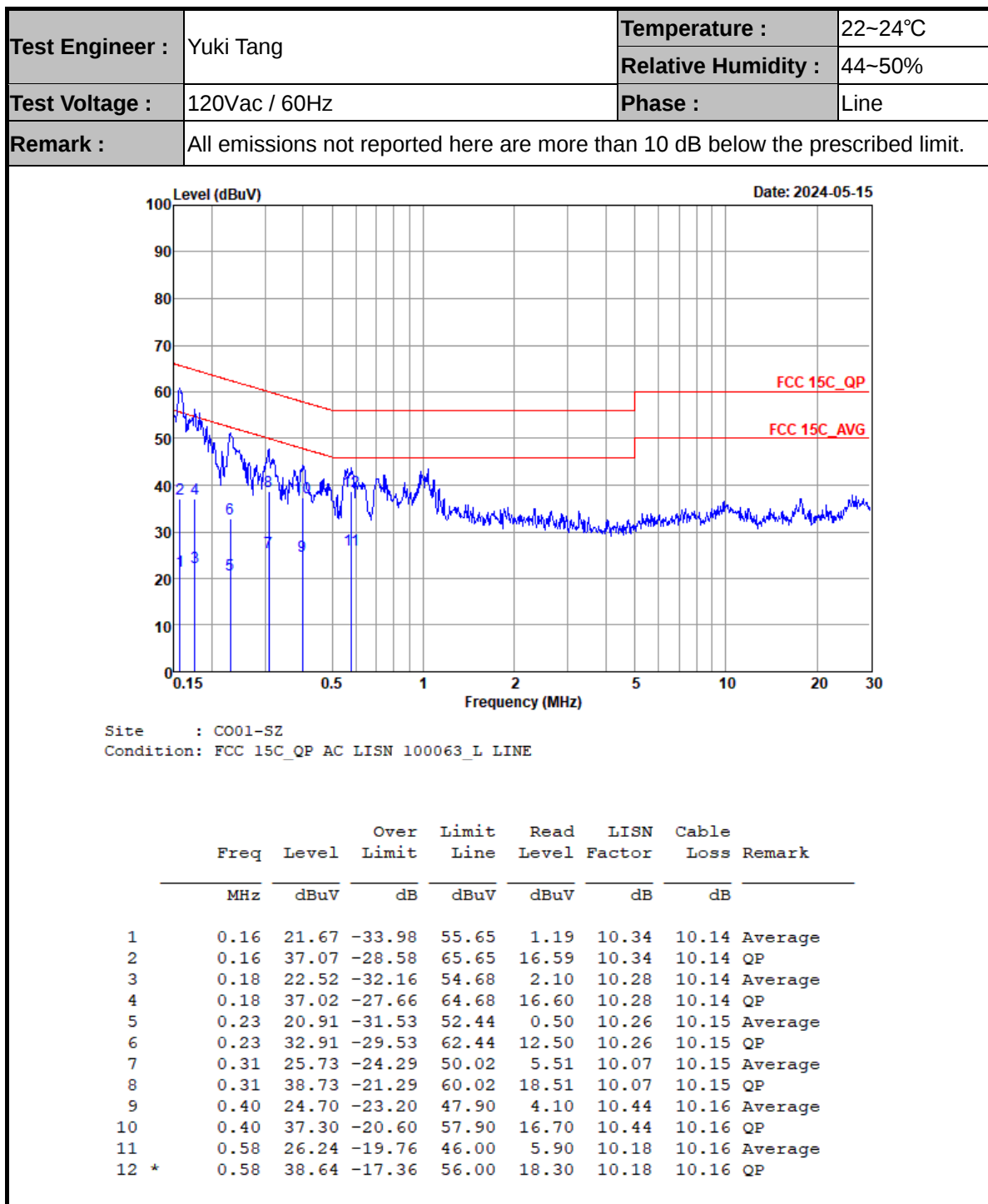






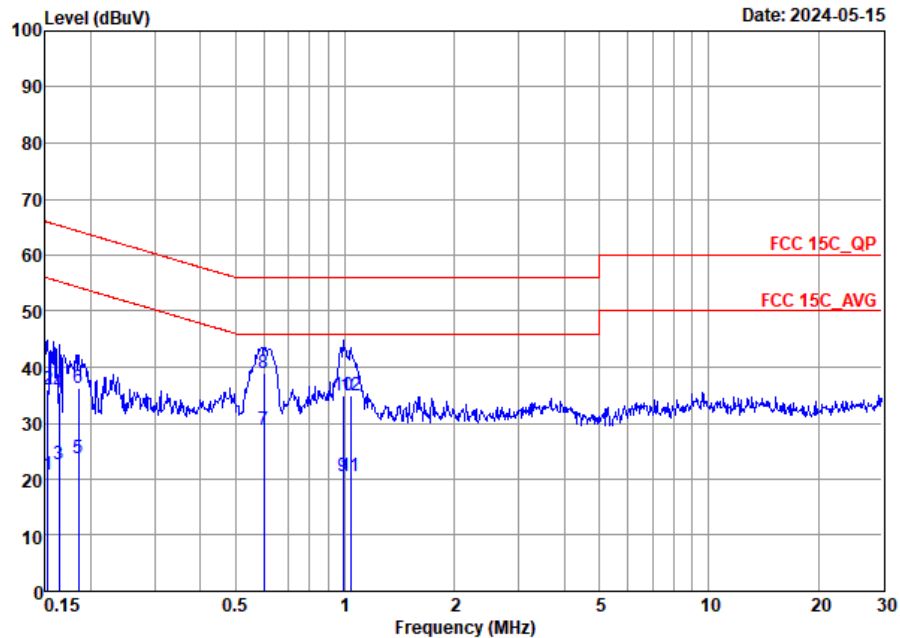


Appendix B. AC Conducted Emission Test Results





Test Engineer :	Yuki Tang	Temperature :	22~24°C
		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 : CO01-SZ
Condition: FCC 15C_QP AC LISN 100063_N NEUTRAL

	Freq	Level	Over	Limit	Read	LISN	Cable	
	MHz	dBuV	Limit	Line	Level	Factor	Loss	Remark
			dB	dBuV	dBuV	dB	dB	
1	0.15	20.71	-35.16	55.87	0.40	10.18	10.13	Average
2	0.15	36.11	-29.76	65.87	15.80	10.18	10.13	QP
3	0.16	22.62	-32.68	55.30	2.10	10.38	10.14	Average
4	0.16	35.42	-29.88	65.30	14.90	10.38	10.14	QP
5	0.19	23.63	-30.61	54.24	3.10	10.38	10.15	Average
6	0.19	36.23	-28.01	64.24	15.70	10.38	10.15	QP
7	0.60	28.91	-17.09	46.00	8.60	10.15	10.16	Average
8 *	0.60	39.01	-16.99	56.00	18.70	10.15	10.16	QP
9	0.99	20.60	-25.40	46.00	0.20	10.24	10.16	Average
10	0.99	35.00	-21.00	56.00	14.60	10.24	10.16	QP
11	1.04	20.48	-25.52	46.00	0.10	10.22	10.16	Average
12	1.04	34.88	-21.12	56.00	14.50	10.22	10.16	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 Data

Test Engineer :	Jia Kuang	Relative Humidity :	48~49%
		Temperature :	24~25 °C

Radiated Spurious Emission Test Modes

Mode	Band (MHz)	Antenna	Modulation	Channel	Frequency	Data Rate	RU	Remark
Mode 1	2400-2483.5	7	Bluetooth BR_GFSK	00	2402	3DH5	-	-
Mode 2	2400-2483.5	7	Bluetooth BR_GFSK	39	2441	3DH5	-	-
Mode 3	2400-2483.5	7	Bluetooth BR_GFSK	78	2480	3DH5	-	-
Mode 4	2400-2483.5	16	Bluetooth BR_GFSK	00	2402	3DH5	-	-
Mode 5	2400-2483.5	16	Bluetooth BR_GFSK	39	2441	3DH5	-	-
Mode 6	2400-2483.5	16	Bluetooth BR_GFSK	78	2480	3DH5	-	-
Mode 3	2400-2483.5	7	Bluetooth BR_GFSK LF	78	2480	3DH5	-	-

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	2346.23	44.43	74.00	-29.57	V	Peak	Pass	Band Edge
1	Bluetooth BR_GFSK	00	4804.00	43.42	74.00	-30.58	H	Peak	Pass	Harmonic
2	Bluetooth BR_GFSK	39	-	-	-	-	-	-	-	Band Edge
2	Bluetooth BR_GFSK	39	7323.00	45.52	74.00	-28.48	H	Peak	Pass	Harmonic
3	Bluetooth BR_GFSK	78	2483.60	47.02	74.00	-26.98	H	Peak	Pass	Band Edge
3	Bluetooth BR_GFSK	78	7440.00	45.70	74.00	-28.30	H	Peak	Pass	Harmonic
4	Bluetooth BR_GFSK	00	2361.03	44.50	74.00	-29.50	V	Peak	Pass	Band Edge
4	Bluetooth BR_GFSK	00	4804.00	43.12	74.00	-30.88	V	Peak	Pass	Harmonic
5	Bluetooth BR_GFSK	39	-	-	-	-	-	-	-	Band Edge
5	Bluetooth BR_GFSK	39	7323.00	45.64	74.00	-28.36	V	Peak	Pass	Harmonic
6	Bluetooth BR_GFSK	78	2484.25	45.56	74.00	-28.44	H	Peak	Pass	Band Edge
6	Bluetooth BR_GFSK	78	7440.00	44.56	74.00	-29.44	H	Peak	Pass	Harmonic
3	Bluetooth BR_GFSK	78	30.00	25.49	40.00	-14.51	H	Peak	Pass	LF



Mode	1																																																																																																																					
	Band Edge																																																																																																																					
	2400-2483.5_Bluetooth BR_GFSK_CH00_2402MHz																																																																																																																					
ANT	7																																																																																																																					
Pol.	Horizontal						Fundamental																																																																																																															
Peak	Level (dBuV/m) Date: 2024-04-27 Frequency (MHz)						Level (dBuV/m) Date: 2024-04-27 Frequency (MHz)																																																																																																															
	<table><tr><th></th><th>Limit</th><th>Margin</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>(dB)</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th></th><th></th></tr><tr><th></th><th>MHz</th><th>dBuV/m</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><tr><td>1</td><td>2389.91</td><td>44.24</td><td>74.00</td><td>-29.76</td><td>41.69</td><td>30.72</td><td>5.36</td><td>33.53</td><td>362</td><td>262</td><td>PEAK</td></tr><tr><td>2</td><td>2389.91</td><td>19.45</td><td>54.00</td><td>-34.55</td><td>16.90</td><td>30.72</td><td>5.36</td><td>33.53</td><td>362</td><td>262</td><td>AVERAGE</td></tr></table>							Limit	Margin	Read	Ant	Cable	Preamp	APos	TPos	Remark	Freq	Level	Line	(dB)	Level	Factor	Loss	Factor				MHz	dBuV/m	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	1	2389.91	44.24	74.00	-29.76	41.69	30.72	5.36	33.53	362	262	PEAK	2	2389.91	19.45	54.00	-34.55	16.90	30.72	5.36	33.53	362	262	AVERAGE	<table><tr><th></th><th>Limit</th><th>Margin</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>(dB)</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th></th><th></th></tr><tr><th></th><th>MHz</th><th>dBuV/m</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><tr><td>1</td><td>2402.00</td><td>105.06</td><td>-----</td><td>102.51</td><td>30.72</td><td>5.37</td><td>33.54</td><td>362</td><td>262</td><td>PEAK</td></tr><tr><td>2</td><td>2402.00</td><td>80.27</td><td>-----</td><td>77.72</td><td>30.72</td><td>5.37</td><td>33.54</td><td>362</td><td>262</td><td>AVERAGE</td></tr></table>							Limit	Margin	Read	Ant	Cable	Preamp	APos	TPos	Remark	Freq	Level	Line	(dB)	Level	Factor	Loss	Factor				MHz	dBuV/m	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	1	2402.00	105.06	-----	102.51	30.72	5.37	33.54	362	262	PEAK	2	2402.00	80.27	-----	77.72	30.72	5.37	33.54	362	262	AVERAGE
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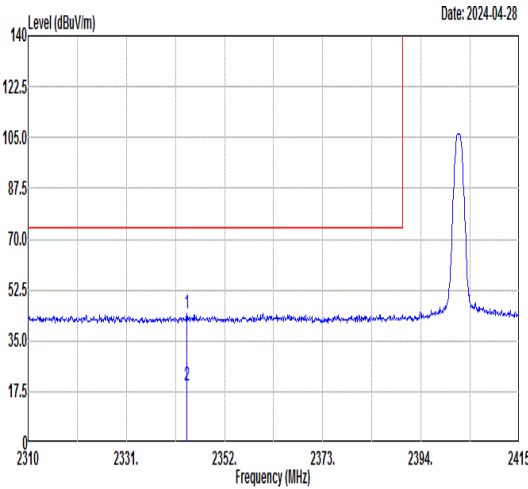
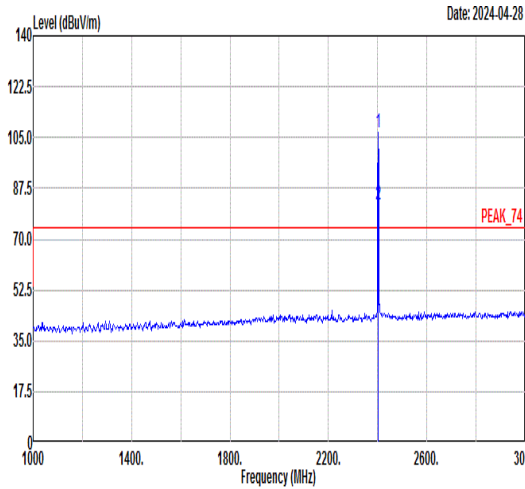


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Peak	Level (dBuV/m) Date: 2024-04-28 Frequency (MHz) <table><tr><th></th><th>Limit</th><th>Margin</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>APos</th><th>TPos</th><th></th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>(dB)</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th></th><th>Remark</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</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><tr><td>1</td><td>2484.25</td><td>44.89</td><td>74.00</td><td>-29.11</td><td>42.32</td><td>30.70</td><td>5.46</td><td>33.59</td><td>340</td><td>192 PEAK</td></tr><tr><td>2</td><td>2484.25</td><td>20.10</td><td>54.00</td><td>-33.90</td><td>17.53</td><td>30.70</td><td>5.46</td><td>33.59</td><td>340</td><td>192 AVERAGE</td></tr></table>		Limit	Margin	Read	Ant	Cable	Preamp	APos	TPos		Freq	Level	Line	(dB)	Level	Factor	Loss	Factor		Remark		MHz	dBuV/m	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	1	2484.25	44.89	74.00	-29.11	42.32	30.70	5.46	33.59	340	192 PEAK	2	2484.25	20.10	54.00	-33.90	17.53	30.70	5.46	33.59	340	192 AVERAGE	Level (dBuV/m) Date: 2024-04-28 Frequency (MHz) <table><tr><th></th><th>Limit</th><th>Margin</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>APos</th><th>TPos</th><th></th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>(dB)</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th></th><th>Remark</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</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><tr><td>1</td><td>2480.00</td><td>103.94</td><td>-----</td><td>101.37</td><td>30.70</td><td>5.46</td><td>33.59</td><td>340</td><td>192 PEAK</td></tr><tr><td>2</td><td>2480.00</td><td>79.15</td><td>-----</td><td>76.58</td><td>30.70</td><td>5.46</td><td>33.59</td><td>340</td><td>192 AVERAGE</td></tr></table>		Limit	Margin	Read	Ant	Cable	Preamp	APos	TPos		Freq	Level	Line	(dB)	Level	Factor	Loss	Factor		Remark		MHz	dBuV/m	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	1	2480.00	103.94	-----	101.37	30.70	5.46	33.59	340	192 PEAK	2	2480.00	79.15	-----	76.58	30.70	5.46	33.59	340	192 AVERAGE
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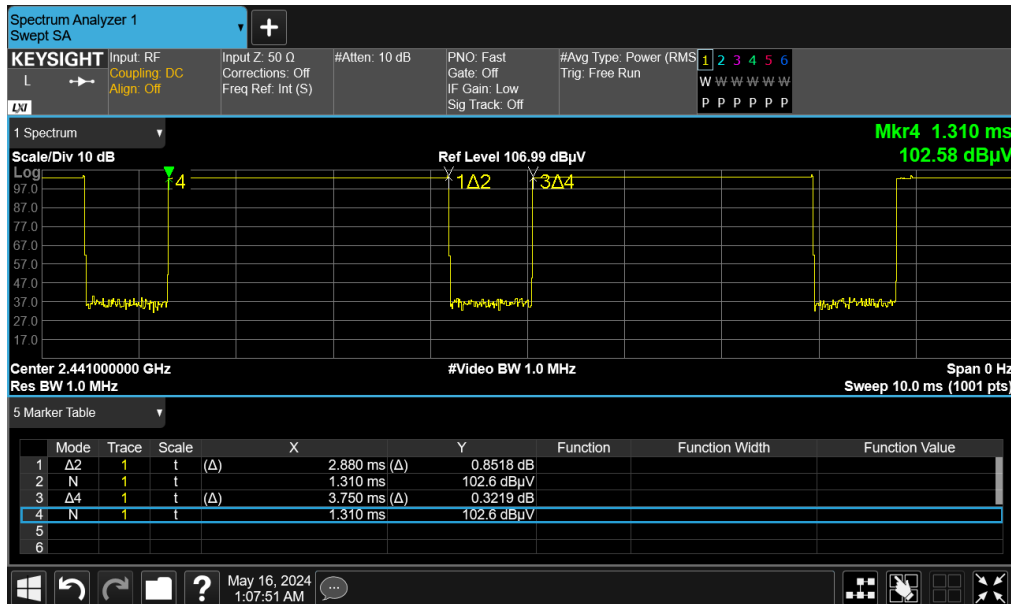


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		Limit	Read	Ant	Cable	Preamp	APos	TPos																																																																																																																																																		
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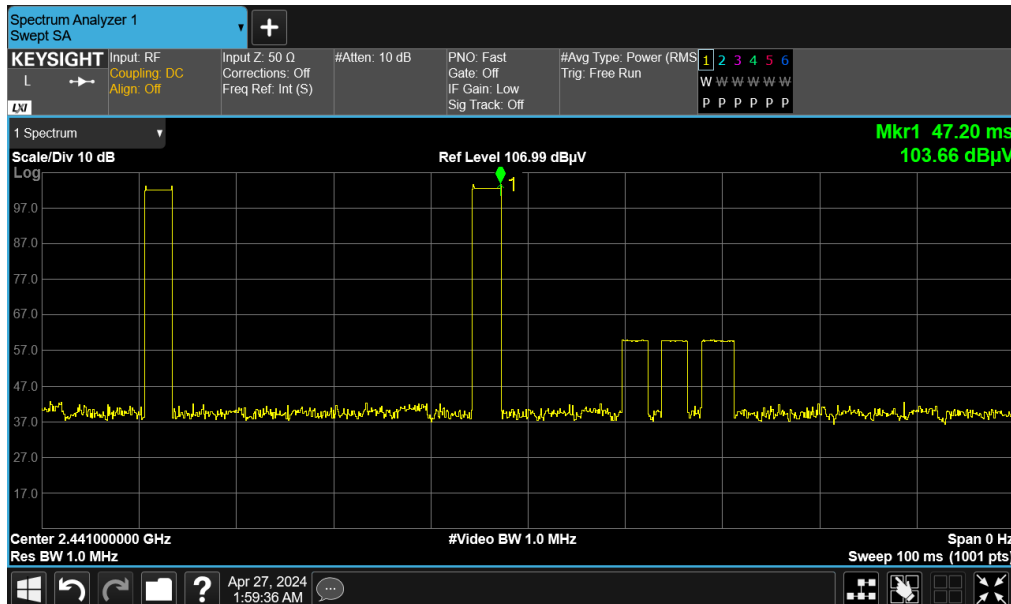
Appendix D. Duty Cycle Plots

Ant 7

3DH5 on time (One Pulse) Plot on Channel 39



3DH5 on time (Count Pulses) Plot on Channel 39

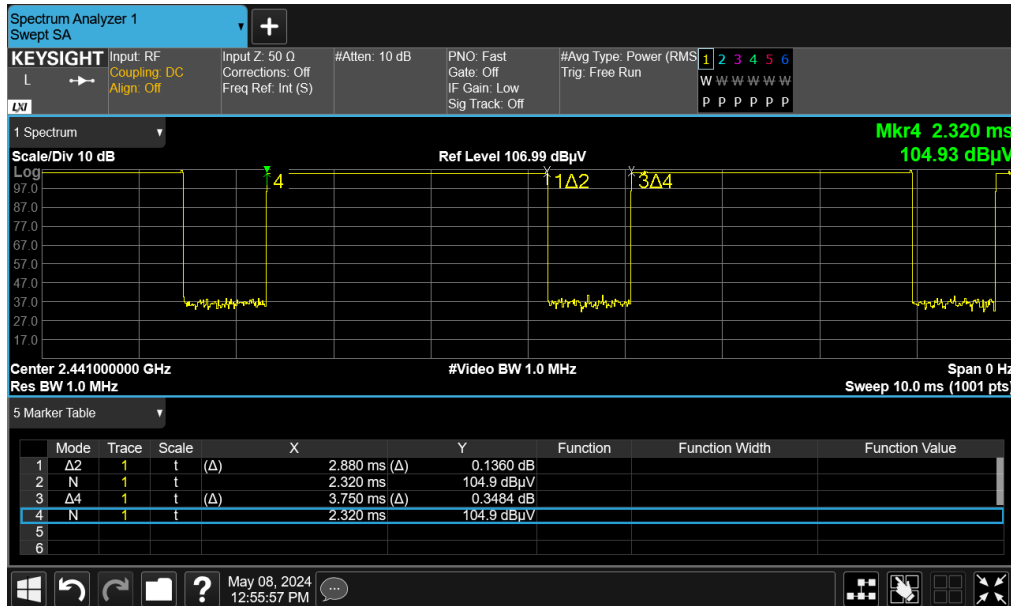


Note:

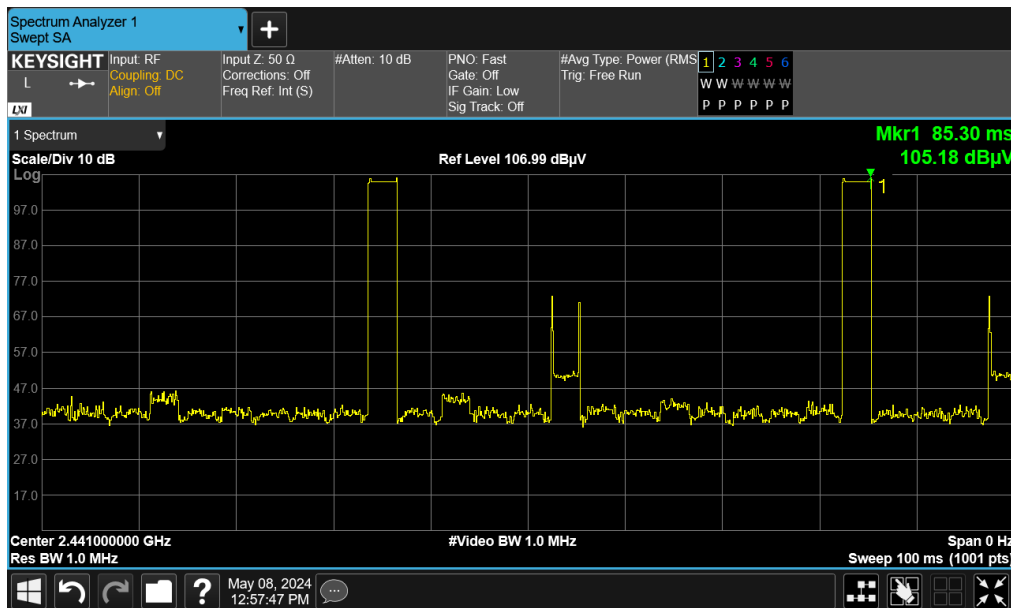
1. Worst case Duty cycle = on time/100 milliseconds = $2 * 2.88 / 100 = 5.76 \%$
2. Worst case Duty cycle correction factor = $20 * \log(\text{Duty cycle}) = -24.79 \text{ dB}$
3. 3DH5 has the highest duty cycle worst case and is reported.

Ant 16

3DH5 on time (One Pulse) Plot on Channel 39



3DH5 on time (Count Pulses) Plot on Channel 39



Note:

4. Worst case Duty cycle = on time/100 milliseconds = $2 * 2.88 / 100 = 5.76 \%$
5. Worst case Duty cycle correction factor = $20 * \log(\text{Duty cycle}) = -24.79 \text{ dB}$
6. 3DH5 has the highest duty cycle worst case and is reported.