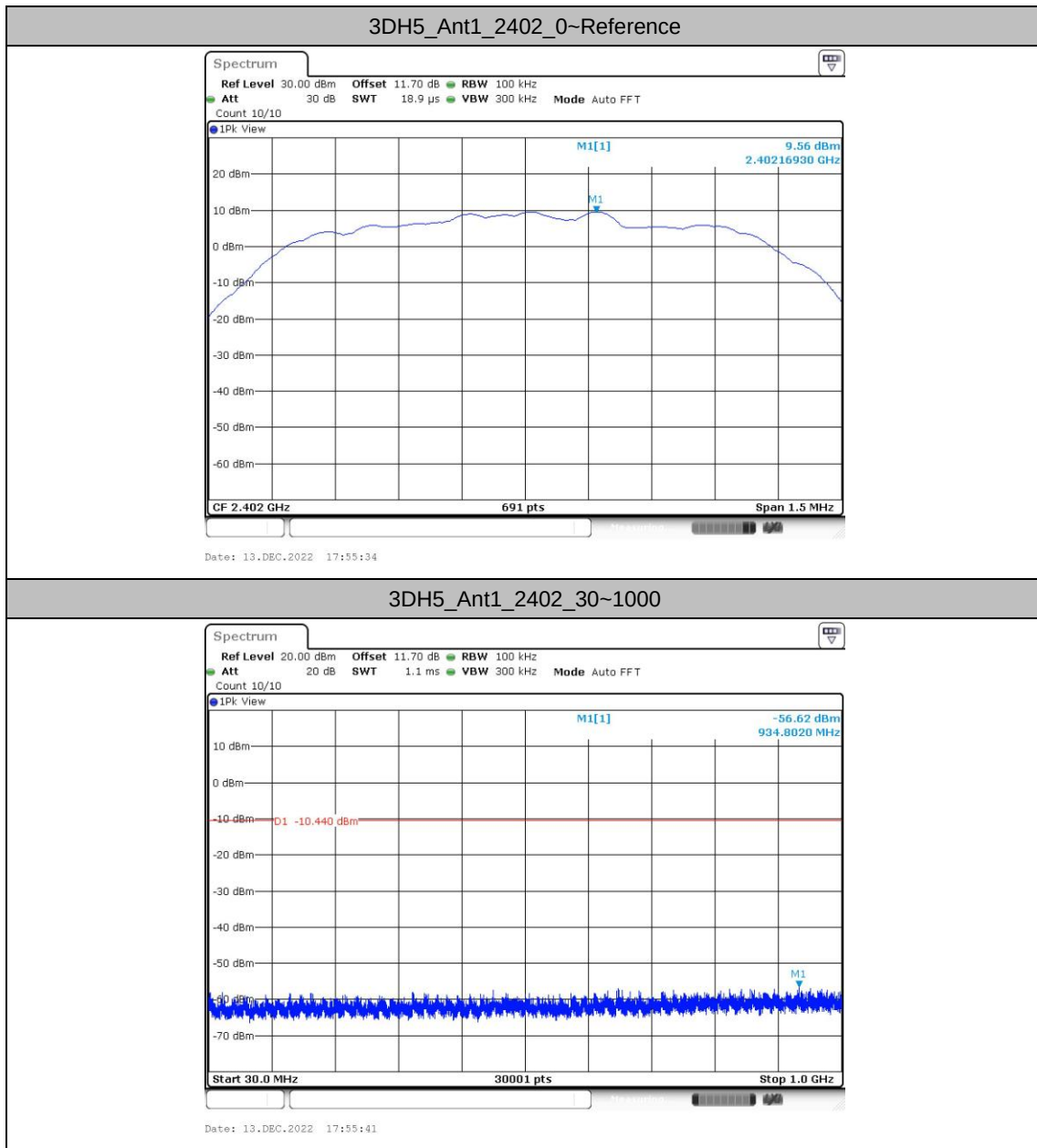
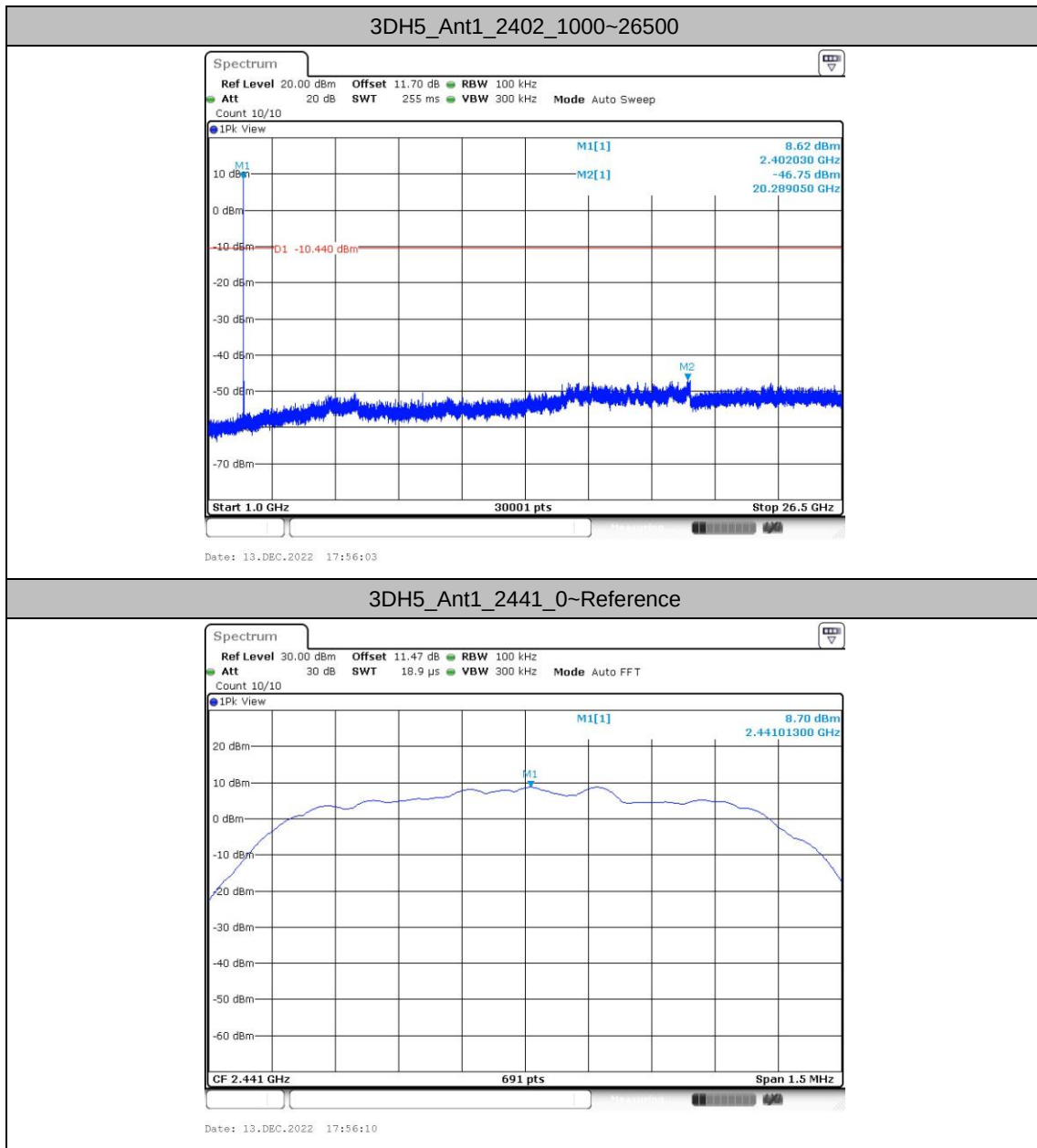
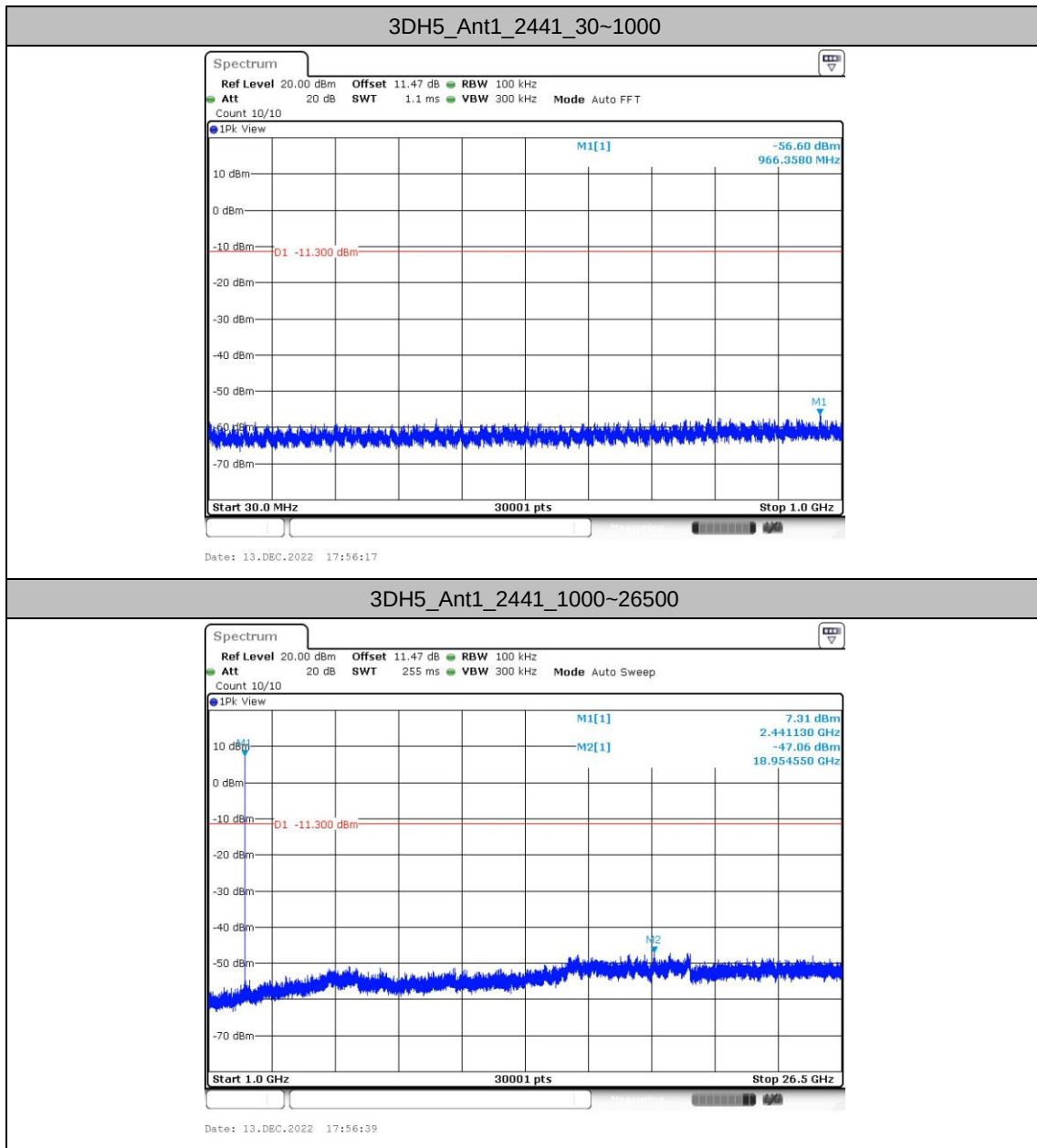
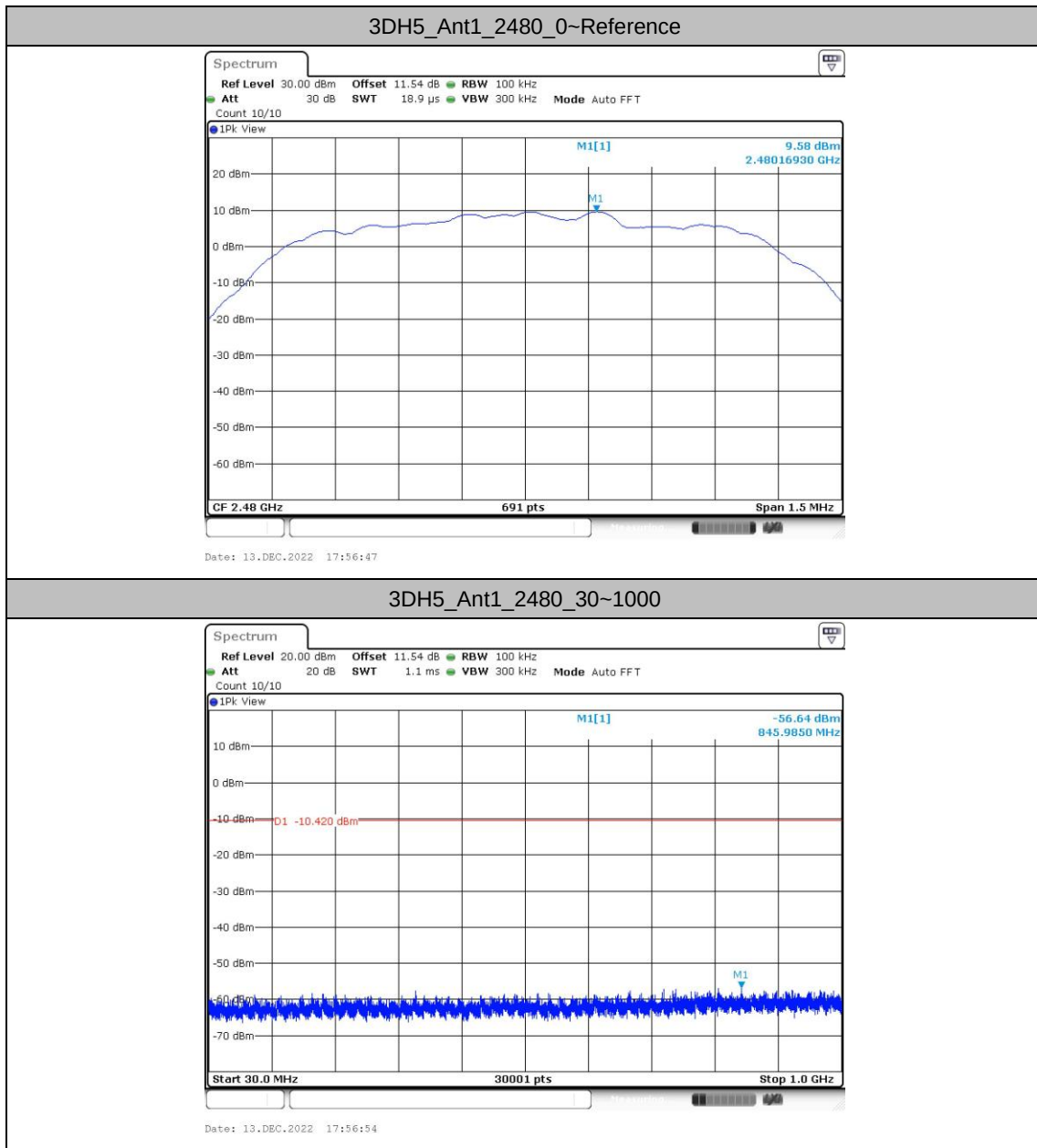
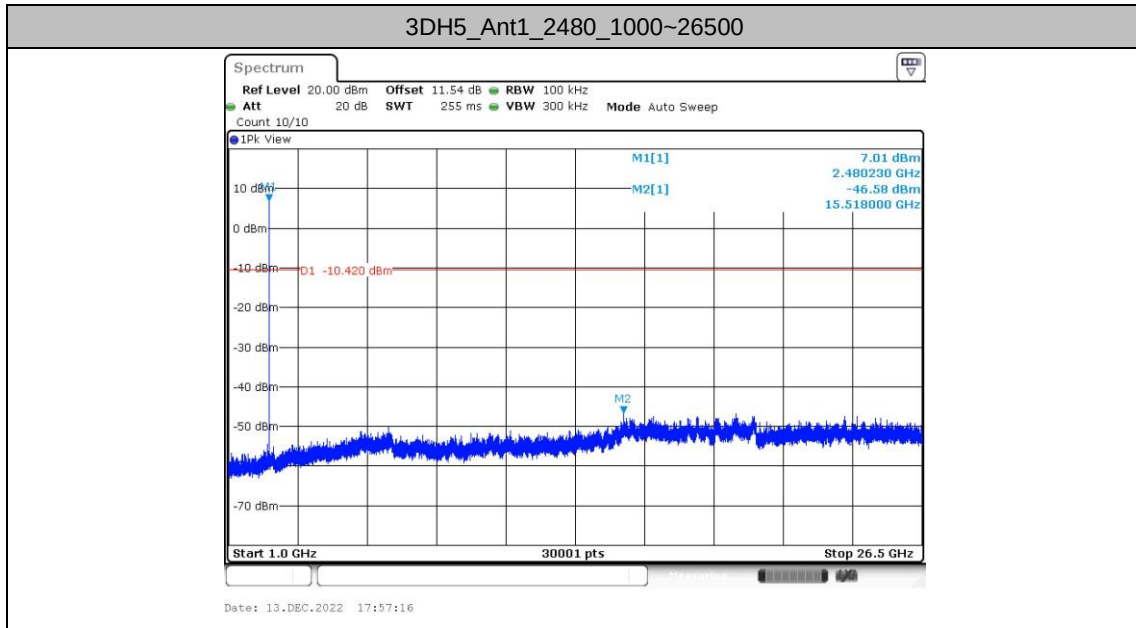






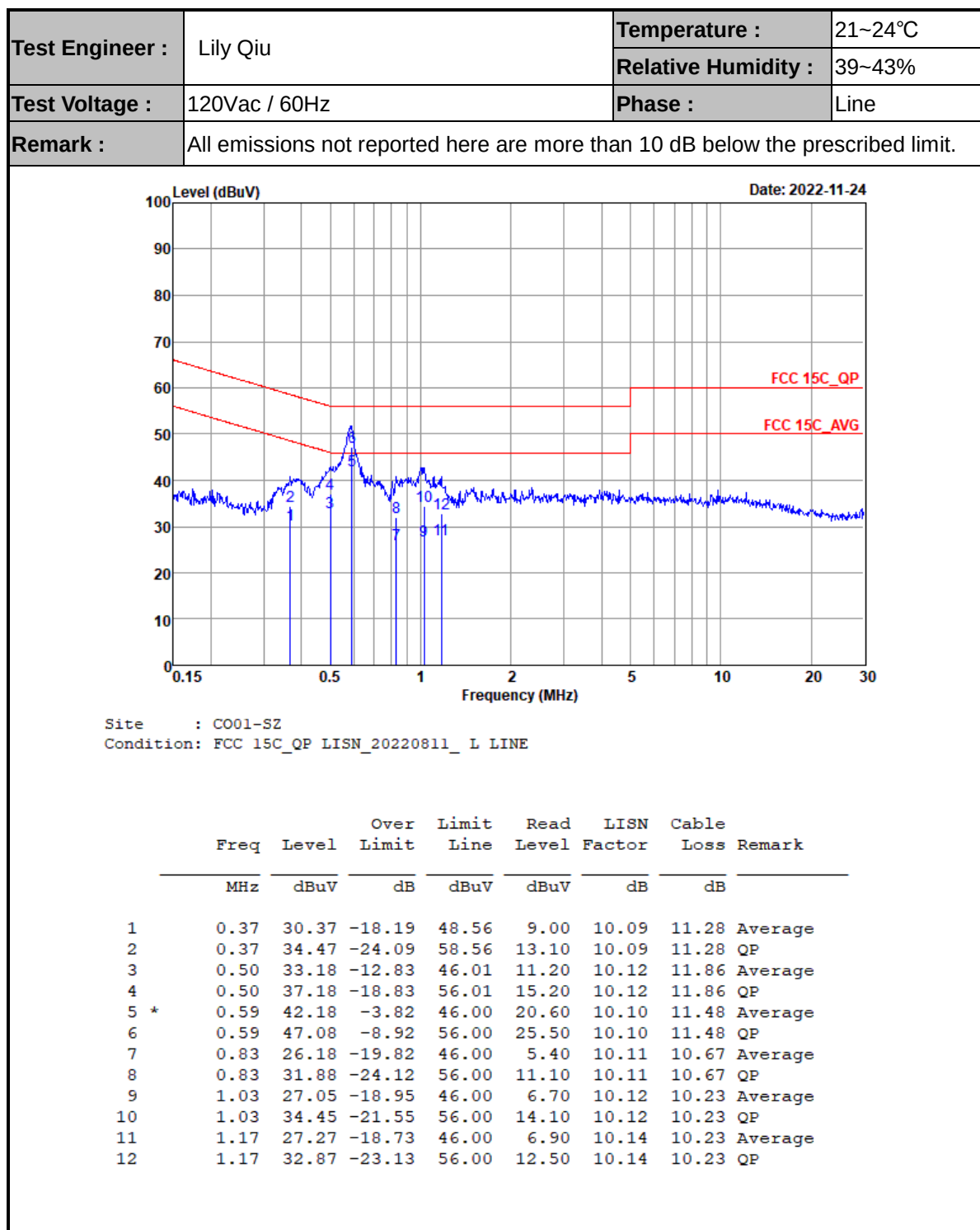






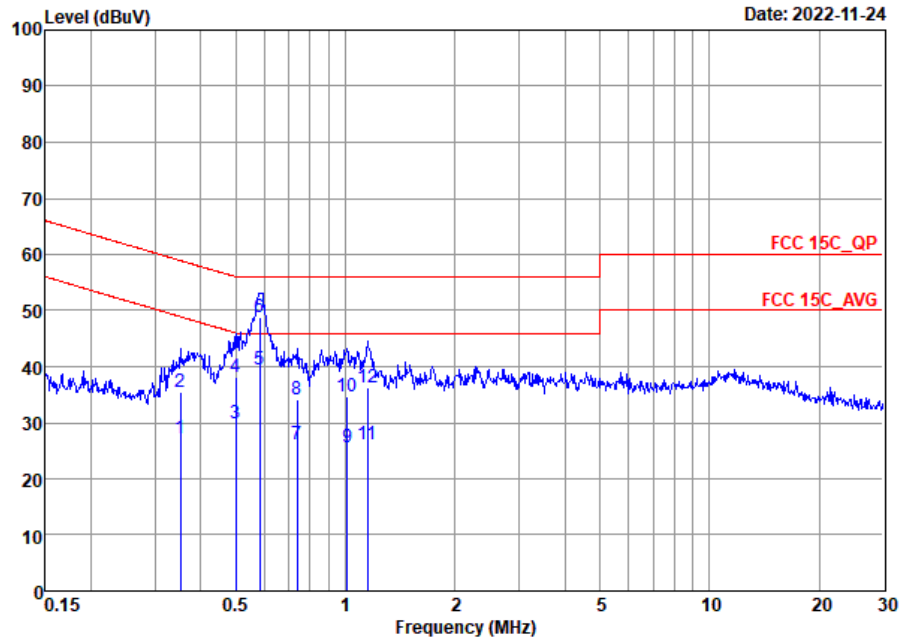


Appendix B. AC Conducted Emission Test Results





Test Engineer :	Lily Qiu	Temperature :	21~24°C
		Relative Humidity :	39~43%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		



Site : C001-SZ
Condition: FCC 15C_QP LISN_20220811_ N NEUTRAL

	Freq	Level	Over	Limit	Read	LISN	Cable	
	MHz	dBuV	Limit	Line	Level	Factor	Loss	Remark
			dB	dBuV	dBuV	dB	dB	
1	0.35	27.28	-21.63	48.91	5.90	10.17	11.21	Average
2	0.35	35.48	-23.43	58.91	14.10	10.17	11.21	QP
3	0.50	29.95	-16.06	46.01	7.90	10.19	11.86	Average
4	0.50	38.05	-17.96	56.01	16.00	10.19	11.86	QP
5 *	0.58	39.43	-6.57	46.00	17.70	10.23	11.50	Average
6	0.58	48.83	-7.17	56.00	27.10	10.23	11.50	QP
7	0.74	26.17	-19.83	46.00	5.00	10.22	10.95	Average
8	0.74	34.07	-21.93	56.00	12.90	10.22	10.95	QP
9	1.01	25.65	-20.35	46.00	5.20	10.22	10.23	Average
10	1.01	34.65	-21.35	56.00	14.20	10.22	10.23	QP
11	1.15	26.07	-19.93	46.00	5.60	10.24	10.23	Average
12	1.15	36.27	-19.73	56.00	15.80	10.24	10.23	QP

Note:

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



Appendix C. Radiated Spurious Emission Test Data

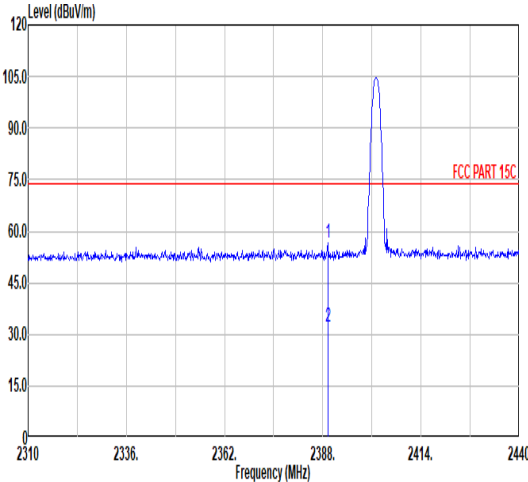
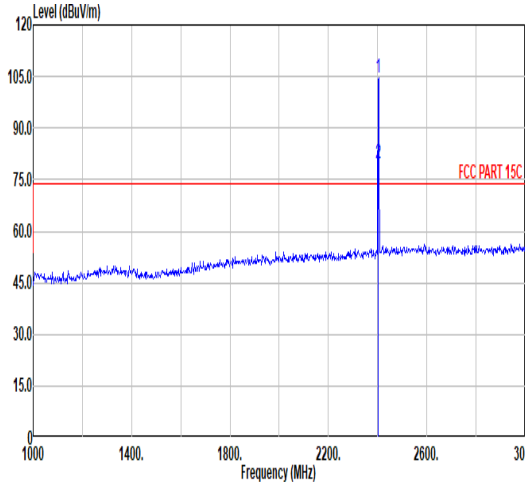
Mode	Band (MHz)	Antenna	Modulation	Channel	Frequency	Data Rate	RU	Remark
Mode 1	2400-2483.5	1	Bluetooth BR_GFSK	00	2402	1Mbps	-	-
Mode 2	2400-2483.5	1	Bluetooth BR_GFSK	39	2441	1Mbps	-	-
Mode 3	2400-2483.5	1	Bluetooth BR_GFSK	78	2480	1Mbps	-	-
Mode 22	2400-2483.5	1	Bluetooth BR_GFSK	78	2480	1Mbps	-	LF



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	2389.30	56.74	74.00	-17.26	H	PEAK	Pass	Band Edge
	Bluetooth BR_GFSK	00	4804.00	41.84	74.00	-32.16	H	PEAK	Pass	Harmonic
2	Bluetooth BR_GFSK	39	-	-	-	-	-	-	-	Band Edge
	Bluetooth BR_GFSK	39	7323.00	46.08	74.00	-27.92	H	PEAK	Pass	Harmonic
3	Bluetooth BR_GFSK	78	2483.83	57.19	74.00	-16.81	V	PEAK	Pass	Band Edge
	Bluetooth BR_GFSK	78	7440.00	45.56	74.00	-28.44	V	PEAK	Pass	Harmonic
22	Bluetooth BR_GFSK	78	35.82	34.06	40	-5.94	V	PEAK	Pass	LF



Mode	1																																																																																																																								
	Band Edge																																																																																																																								
	2400-2483.5_Bluetooth BR_GFSK_CH00_2402MHz																																																																																																																								
ANT	1																																																																																																																								
Pol.	Horizontal						Fundamental																																																																																																																		
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		Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos																																																																																																																
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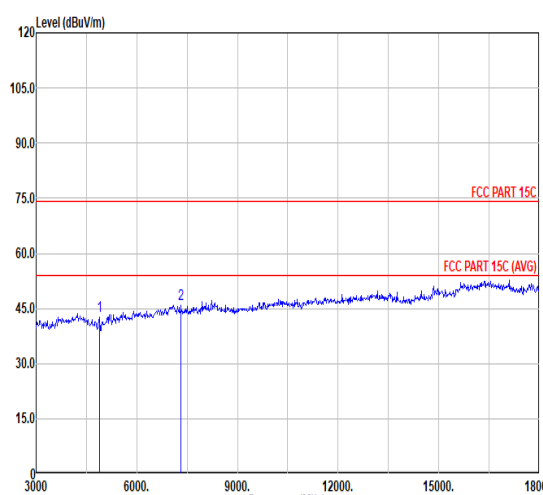
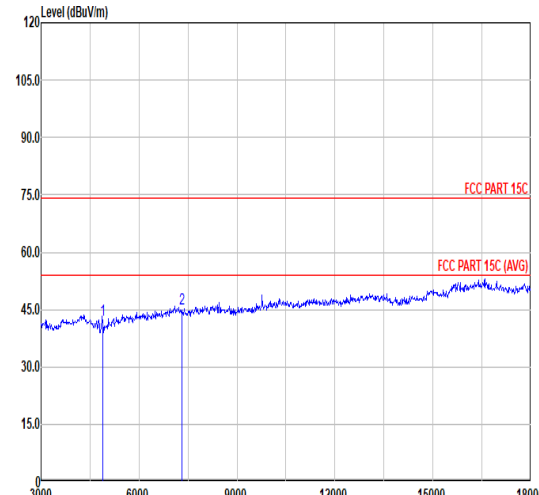


Mode	1																																																																				
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	Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos																																																													
Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor	Remark																																																												
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1	2402.00	106.44	-----	-----	94.36	32.30	6.62	32.84	6.00	265	267	PEAK																																																									
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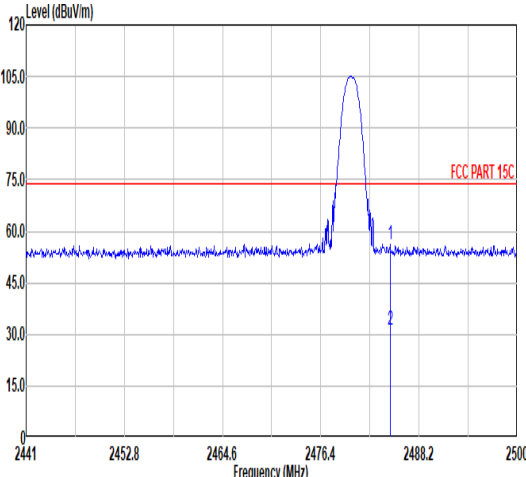
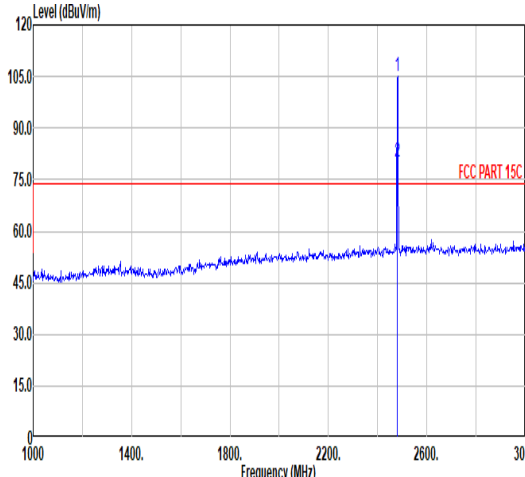


Mode	1																																																																																																			
	Harmonic																																																																																																			
	2400-2483.5_Bluetooth BR_GFSK_CH00_2402MHz																																																																																																			
ANT	1																																																																																																			
Pol.	Horizontal						Vertical																																																																																													
Peak Avg	Horizontal Polarization Spectrum Plot showing Level (dBuV/m) vs Frequency (MHz). The plot includes a blue signal line, a red limit line at 75.0 dBuV/m, and a red average line at 60.0 dBuV/m. The signal is below the limit line.						Vertical Polarization Spectrum Plot showing Level (dBuV/m) vs Frequency (MHz). The plot includes a blue signal line, a red limit line at 75.0 dBuV/m, and a red average line at 60.0 dBuV/m. The signal is below the limit line.																																																																																													
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		Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos																																																																																											
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	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg																																																																																										
1	4804.00	40.86	74.00	-33.14	58.35	34.30	9.44	61.23	0.00	100	0	PEAK																																																																																								

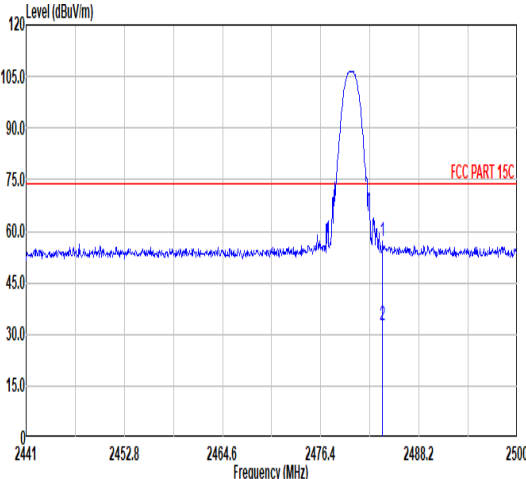
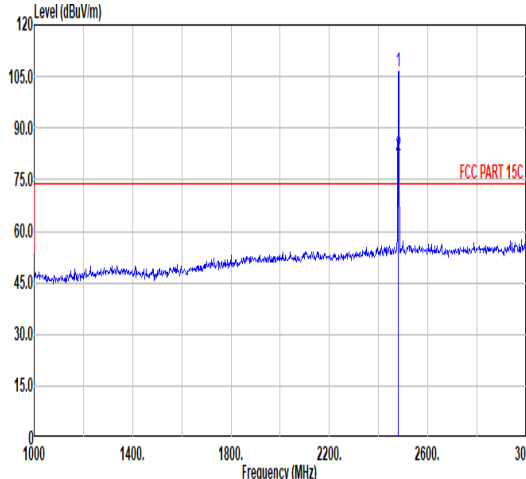


Mode	2																																																																			
	Harmonic																																																																			
	2400-2483.5_Bluetooth BR_GFSK_CH39_2441MHz																																																																			
ANT	1																																																																			
Pol.	Horizontal						Vertical																																																													
Peak Avg																																																																				
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		Freq	Level	Limit	Line	Margin	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark																																																						
	MHz	dBuV/m	dBuV/m	dB		dBuV	dB/m	dB	dB	dB	cm	deg																																																								
1	4882.00	42.78	74.00	-31.22		60.28	34.13	9.53	61.16	0.00	300	0	PEAK																																																							
2	7323.00	46.08	74.00	-27.92		59.44	35.70	11.69	60.75	0.00	300	0	PEAK																																																							
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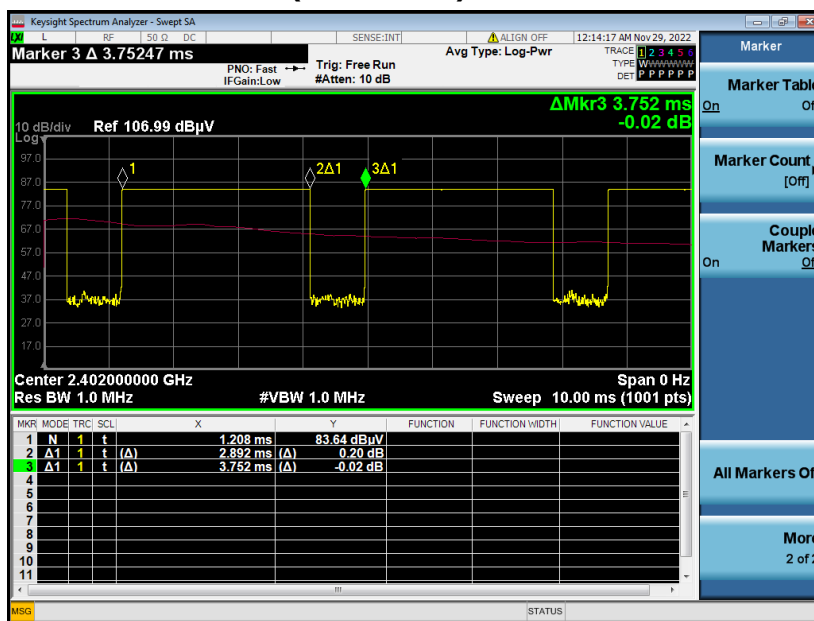
Note: For 18G~25GHz, only the worst case is verified.



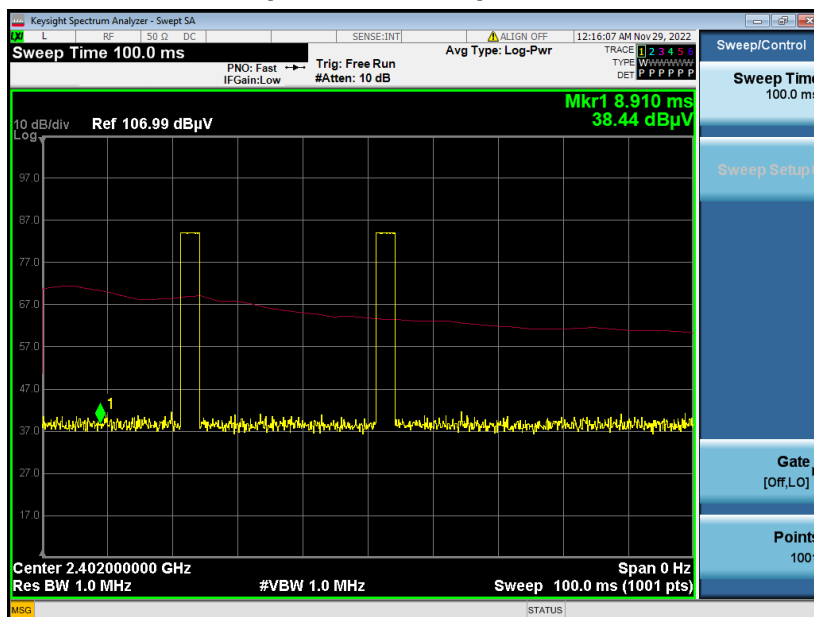
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Peak QP	Horizontal polarization spectrum plot showing Level (dBuV/m) vs Frequency (MHz). The plot includes a red stepped limit line labeled 'FCC PART 15C' and a blue signal trace with peaks labeled 1 through 6. The x-axis ranges from 30 to 1000 MHz, and the y-axis ranges from -20 to 80 dBuV/m. <table><tr><th></th><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>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><tr><td>1</td><td>30.00</td><td>20.41</td><td>-19.59</td><td>40.00</td><td>27.06</td><td>25.10</td><td>0.45</td><td>32.20</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>2</td><td>176.47</td><td>31.62</td><td>-11.88</td><td>43.50</td><td>46.62</td><td>15.32</td><td>1.78</td><td>32.10</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>3</td><td>226.91</td><td>32.19</td><td>-13.81</td><td>46.00</td><td>46.24</td><td>16.07</td><td>2.03</td><td>32.15</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>4</td><td>301.60</td><td>36.87</td><td>-9.13</td><td>46.00</td><td>47.20</td><td>19.42</td><td>2.35</td><td>32.10</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>5</td><td>406.36</td><td>27.32</td><td>-18.68</td><td>46.00</td><td>34.83</td><td>22.06</td><td>2.72</td><td>32.29</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>6</td><td>768.17</td><td>30.03</td><td>-15.97</td><td>46.00</td><td>30.39</td><td>28.20</td><td>3.74</td><td>32.30</td><td>---</td><td>---</td><td>Peak</td></tr></table> Vertical polarization spectrum plot showing Level (dBuV/m) vs Frequency (MHz). The plot includes a red stepped limit line labeled 'FCC PART 15C' and a blue signal trace with peaks labeled 1 through 6. The x-axis ranges from 30 to 1000 MHz, and the y-axis ranges from -20 to 80 dBuV/m. <table><tr><th></th><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>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><tr><td>1 !</td><td>35.82</td><td>34.06</td><td>-5.94</td><td>40.00</td><td>43.79</td><td>21.92</td><td>0.53</td><td>32.18</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>2</td><td>74.62</td><td>29.94</td><td>-10.06</td><td>40.00</td><td>48.12</td><td>13.00</td><td>1.02</td><td>32.20</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>3</td><td>190.05</td><td>31.43</td><td>-12.07</td><td>43.50</td><td>46.87</td><td>14.80</td><td>1.86</td><td>32.10</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>4</td><td>302.57</td><td>27.75</td><td>-18.25</td><td>46.00</td><td>38.07</td><td>19.43</td><td>2.35</td><td>32.10</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>5</td><td>630.43</td><td>31.53</td><td>-14.47</td><td>46.00</td><td>34.14</td><td>26.23</td><td>3.40</td><td>32.24</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>6</td><td>706.09</td><td>37.36</td><td>-8.64</td><td>46.00</td><td>39.10</td><td>26.88</td><td>3.59</td><td>32.21</td><td>---</td><td>---</td><td>Peak</td></tr></table>												Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark		MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	1	30.00	20.41	-19.59	40.00	27.06	25.10	0.45	32.20	---	---	Peak	2	176.47	31.62	-11.88	43.50	46.62	15.32	1.78	32.10	---	---	Peak	3	226.91	32.19	-13.81	46.00	46.24	16.07	2.03	32.15	---	---	Peak	4	301.60	36.87	-9.13	46.00	47.20	19.42	2.35	32.10	---	---	Peak	5	406.36	27.32	-18.68	46.00	34.83	22.06	2.72	32.29	---	---	Peak	6	768.17	30.03	-15.97	46.00	30.39	28.20	3.74	32.30	---	---	Peak		Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark		MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	1 !	35.82	34.06	-5.94	40.00	43.79	21.92	0.53	32.18	---	---	Peak	2	74.62	29.94	-10.06	40.00	48.12	13.00	1.02	32.20	---	---	Peak	3	190.05	31.43	-12.07	43.50	46.87	14.80	1.86	32.10	---	---	Peak	4	302.57	27.75	-18.25	46.00	38.07	19.43	2.35	32.10	---	---	Peak	5	630.43	31.53	-14.47	46.00	34.14	26.23	3.40	32.24	---	---	Peak	6	706.09	37.36	-8.64	46.00	39.10	26.88	3.59	32.21	---	---	Peak
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Appendix D. Duty Cycle Plots

3DH5 on time (One Pulse) Plot on Channel 00



3DH5 on time (Count Pulses) Plot on Channel 00



Note:

1. Worst case Duty cycle = on time/100 milliseconds = $2 * 2.892 / 100 = 5.78 \%$
2. Worst case Duty cycle correction factor = $20 * \log(\text{Duty cycle}) = -24.76 \text{ dB}$
3. 3DH5 has the highest duty cycle worst case and is reported.