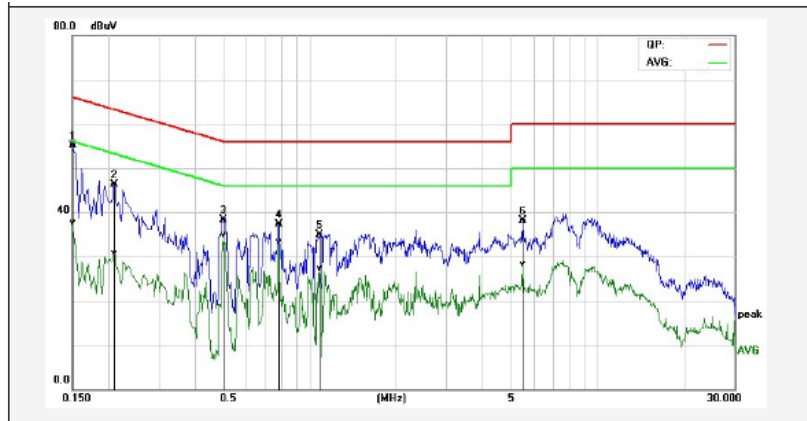
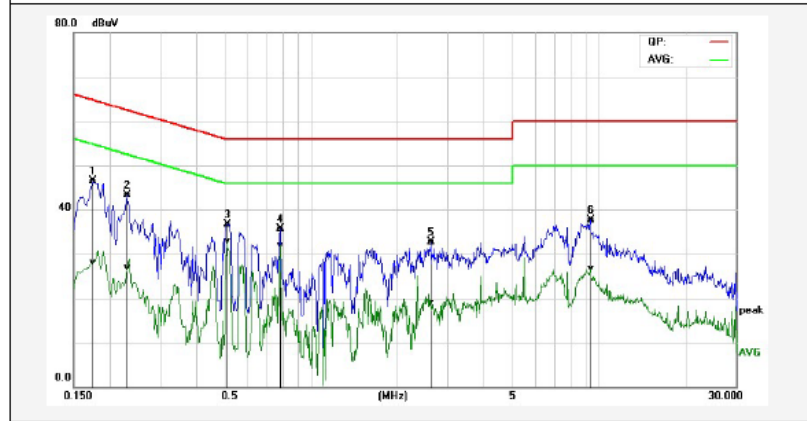


Appendix A: Test Results of BDR&EDR

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Appendix A.1 Test Results of Conducted Emission on AC Mains

Note: All modes have been tested, and the report only reflects the worst mode.

Test Mode:	Mode 10	Test Voltage :	AC 110V/60Hz																																																																																				
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 <table><tr><th>No.</th><th>Frequency (MHz)</th><th>QuasiPeak reading (dBuV)</th><th>Average reading (dBuV)</th><th>Correction factor (dB)</th><th>QuasiPeak result (dBuV)</th><th>Average result (dBuV)</th><th>QuasiPeak limit (dBuV)</th><th>Average limit (dBuV)</th><th>QuasiPeak margin (dB)</th><th>Average margin (dB)</th><th>Remark</th></tr><tr><td>1*</td><td>0.1500</td><td>45.57</td><td>28.11</td><td>9.50</td><td>55.07</td><td>37.61</td><td>65.99</td><td>56.00</td><td>-10.92</td><td>-18.39</td><td>Pass</td></tr><tr><td>2P</td><td>0.2100</td><td>36.90</td><td>21.29</td><td>9.50</td><td>46.40</td><td>30.79</td><td>63.20</td><td>53.21</td><td>-16.80</td><td>-22.42</td><td>Pass</td></tr><tr><td>3P</td><td>0.5020</td><td>28.90</td><td>25.39</td><td>9.50</td><td>38.40</td><td>34.89</td><td>56.00</td><td>46.00</td><td>-17.60</td><td>-11.11</td><td>Pass</td></tr><tr><td>4P</td><td>0.7860</td><td>27.82</td><td>23.81</td><td>9.47</td><td>37.29</td><td>33.28</td><td>56.00</td><td>46.00</td><td>-18.71</td><td>-12.72</td><td>Pass</td></tr><tr><td>5P</td><td>1.0900</td><td>25.58</td><td>17.89</td><td>9.39</td><td>34.97</td><td>27.28</td><td>56.00</td><td>46.00</td><td>-21.03</td><td>-18.72</td><td>Pass</td></tr><tr><td>6P</td><td>5.4980</td><td>29.06</td><td>19.29</td><td>9.05</td><td>38.11</td><td>28.34</td><td>60.00</td><td>50.00</td><td>-21.89</td><td>-21.66</td><td>Pass</td></tr></table>				No.	Frequency (MHz)	QuasiPeak reading (dBuV)	Average reading (dBuV)	Correction factor (dB)	QuasiPeak result (dBuV)	Average result (dBuV)	QuasiPeak limit (dBuV)	Average limit (dBuV)	QuasiPeak margin (dB)	Average margin (dB)	Remark	1*	0.1500	45.57	28.11	9.50	55.07	37.61	65.99	56.00	-10.92	-18.39	Pass	2P	0.2100	36.90	21.29	9.50	46.40	30.79	63.20	53.21	-16.80	-22.42	Pass	3P	0.5020	28.90	25.39	9.50	38.40	34.89	56.00	46.00	-17.60	-11.11	Pass	4P	0.7860	27.82	23.81	9.47	37.29	33.28	56.00	46.00	-18.71	-12.72	Pass	5P	1.0900	25.58	17.89	9.39	34.97	27.28	56.00	46.00	-21.03	-18.72	Pass	6P	5.4980	29.06	19.29	9.05	38.11	28.34	60.00	50.00	-21.89	-21.66	Pass
No.	Frequency (MHz)	QuasiPeak reading (dBuV)	Average reading (dBuV)	Correction factor (dB)	QuasiPeak result (dBuV)	Average result (dBuV)	QuasiPeak limit (dBuV)	Average limit (dBuV)	QuasiPeak margin (dB)	Average margin (dB)	Remark																																																																												
1*	0.1500	45.57	28.11	9.50	55.07	37.61	65.99	56.00	-10.92	-18.39	Pass																																																																												
2P	0.2100	36.90	21.29	9.50	46.40	30.79	63.20	53.21	-16.80	-22.42	Pass																																																																												
3P	0.5020	28.90	25.39	9.50	38.40	34.89	56.00	46.00	-17.60	-11.11	Pass																																																																												
4P	0.7860	27.82	23.81	9.47	37.29	33.28	56.00	46.00	-18.71	-12.72	Pass																																																																												
5P	1.0900	25.58	17.89	9.39	34.97	27.28	56.00	46.00	-21.03	-18.72	Pass																																																																												
6P	5.4980	29.06	19.29	9.05	38.11	28.34	60.00	50.00	-21.89	-21.66	Pass																																																																												
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No.	Frequency (MHz)	QuasiPeak reading (dBuV)	Average reading (dBuV)	Correction factor (dB)	QuasiPeak result (dBuV)	Average result (dBuV)	QuasiPeak limit (dBuV)	Average limit (dBuV)	QuasiPeak margin (dB)	Average margin (dB)	Remark																																																																												
1P	0.1740	37.14	18.71	9.40	46.54	28.11	64.76	54.77	-18.22	-26.66	Pass																																																																												
2P	0.2300	33.94	17.59	9.40	43.34	26.99	62.45	52.45	-19.11	-25.46	Pass																																																																												
3*	0.5140	27.26	23.52	9.40	36.66	32.92	56.00	46.00	-19.34	-13.08	Pass																																																																												
4P	0.7860	26.33	22.55	9.37	35.70	31.92	56.00	46.00	-20.30	-14.08	Pass																																																																												
5P	2.6260	23.55	9.71	9.14	32.69	18.85	56.00	46.00	-23.31	-27.15	Pass																																																																												
6P	9.3700	28.54	17.58	9.08	37.62	26.66	60.00	50.00	-22.38	-23.34	Pass																																																																												

Correction Factor = insertion loss of LISN + cable loss;
Reading = Reading Amplitude in the instrument;
Result = Correction Factor + Reading;
Margin = Result – Limit

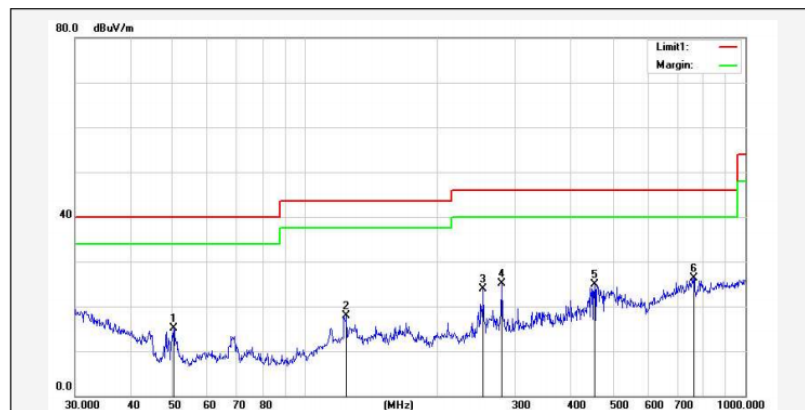
Appendix A.2 Test Results of Radiated Spurious Emission

Below 1G:

Note: All modes have been tested, and the report only reflects the worst mode.

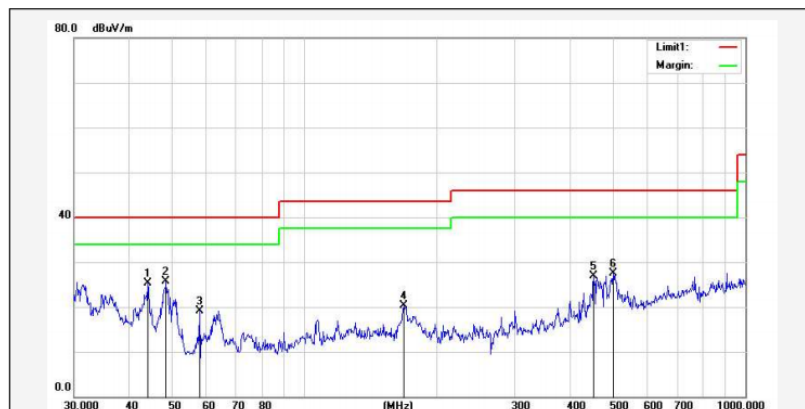
Test Mode : Mode 10 Test Voltage : DC 5V

Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (deg.)	Height (cm)	Remark
1	50.2324	33.59	-18.53	15.06	40.00	-24.94			peak
2	124.1330	29.98	-11.99	17.99	43.50	-25.51			peak
3	253.8367	37.21	-13.36	23.85	46.00	-22.15			peak
4	279.0436	36.53	-11.33	25.20	46.00	-20.80			peak
5	454.3100	31.89	-7.00	24.89	46.00	-21.11			peak
6*	763.3757	28.89	-2.53	26.36	46.00	-19.64			peak

Vertical



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (deg.)	Height (cm)	Remark
1	44.1200	40.96	-15.61	25.35	40.00	-14.65			peak
2*	48.5016	43.72	-18.04	25.68	40.00	-14.32			peak
3	57.7961	38.03	-18.87	19.16	40.00	-20.84			peak
4	167.8240	33.75	-13.48	20.27	43.50	-23.23			peak
5	452.7196	33.98	-7.08	26.90	46.00	-19.10			peak
6	501.1790	33.12	-5.61	27.51	46.00	-18.49			peak

Correction Factor = antenna factor + cable loss – amplifier gain;

Reading = Reading Amplitude in the instrument;

Result = Correction Factor + Reading;

Margin = Result – Limit.

Above 1GHz:
GFSK - Low (worst mode) Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4808	57.63	-13.33	44.3	74	-29.7	peak
2	5692	55.6	-11.75	43.85	52.76	-8.91	peak
3	6168	55.79	-9.92	45.87	52.76	-6.89	peak
4	6780	55.15	-8.99	46.16	52.76	-6.6	peak
5	7596	53.88	-7.26	46.62	74	-27.38	peak
6	8378	54.62	-7.1	47.52	74	-26.48	peak

GFSK - Low (worst mode) Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5182	56.88	-12.66	44.22	52.76	-8.54	peak
2	5692	55.75	-11.75	44	52.76	-8.76	peak
3	5964	56.66	-10.23	46.43	52.76	-6.33	peak
4	6474	55.58	-10.11	45.47	52.76	-7.29	peak
5	7018	54.94	-8.69	46.25	52.76	-6.51	peak
6	7562	54.42	-7.22	47.2	74	-26.8	peak

GFSK - Middle (worst mode) Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4876	57.33	-13	44.33	74	-29.67	peak
2	5352	56.74	-12.58	44.16	74	-29.84	peak
3	6134	55.93	-9.98	45.95	52.76	-6.81	peak
4	6916	55.77	-8.8	46.97	52.76	-5.79	peak
5	7562	54.6	-7.22	47.38	74	-26.62	peak
6	8310	54.19	-7.28	46.91	74	-27.09	peak

GFSK - Middle (worst mode) Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5182	56.57	-12.66	43.91	52.76	-8.85	peak
2	5998	56.35	-10.12	46.23	52.76	-6.53	peak
3	7120	55.15	-8.35	46.8	52.76	-5.96	peak
4	7426	54.9	-7.09	47.81	74	-26.19	peak
5	8208	54.91	-7.62	47.29	74	-26.71	peak
6	8854	55.28	-7.88	47.4	52.76	-5.36	peak

GFSK - High (worst mode) Horizontal

No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4944	58.28	-12.85	45.43	74	-28.57	peak
2	5964	55.52	-10.23	45.29	52.76	-7.47	peak
3	6270	56.84	-9.94	46.9	52.76	-5.86	peak
4	6950	55.14	-8.79	46.35	52.76	-6.41	peak
5	7426	54.67	-7.09	47.58	74	-26.42	peak
6	8344	54.58	-7.2	47.38	74	-26.62	peak

GFSK - High (worst mode) Vertical

No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5216	56.23	-12.66	43.57	52.76	-9.19	peak
2	5624	55.81	-12.01	43.8	52.76	-8.96	peak
3	6066	56.23	-10.07	46.16	52.76	-6.6	peak
4	6950	54.96	-8.79	46.17	52.76	-6.59	peak
5	7426	54.58	-7.09	47.49	74	-26.51	peak
6	8378	54.21	-7.1	47.11	74	-26.89	peak

 $\pi/4$ DQPSK - Low (worst mode) Horizontal

No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4808	57.63	-13.33	44.3	74	-29.7	peak
2	5692	55.6	-11.75	43.85	52.76	-8.91	peak
3	6168	55.79	-9.92	45.87	52.76	-6.89	peak
4	6780	55.15	-8.99	46.16	52.76	-6.6	peak
5	7596	53.88	-7.26	46.62	74	-27.38	peak
6	8378	54.62	-7.1	47.52	74	-26.48	peak

 $\pi/4$ DQPSK - Low (worst mode) Vertical

No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	3992	59.46	-15.01	44.45	74	-29.55	peak
2	4910	57.96	-12.91	45.05	74	-28.95	peak
3	5964	55.29	-10.23	45.06	52.76	-7.7	peak
4	6474	55.44	-10.11	45.33	52.76	-7.43	peak
5	6916	55.16	-8.8	46.36	52.76	-6.4	peak
6	7562	54.57	-7.22	47.35	74	-26.65	peak

 $\pi/4$ DQPSK - Middle (worst mode) Horizontal

No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4876	57.44	-13	44.44	74	-29.56	peak
2	5080	56.76	-12.5	44.26	74	-29.74	peak
3	6134	55.59	-9.98	45.61	52.76	-7.15	peak
4	6950	55.57	-8.79	46.78	52.76	-5.98	peak
5	7426	55.1	-7.09	48.01	74	-25.99	peak
6	8378	54.28	-7.1	47.18	74	-26.82	peak

$\pi/4$ DQPSK - Middle (worst mode) Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5080	57.41	-12.5	44.91	74	-29.09	peak
2	5318	57.04	-12.64	44.4	52.76	-8.36	peak
3	5998	55.28	-10.12	45.16	52.76	-7.6	peak
4	6780	54.96	-8.99	45.97	52.76	-6.79	peak
5	7562	54.58	-7.22	47.36	74	-26.64	peak
6	8242	55.59	-7.48	48.11	74	-25.89	peak

 $\pi/4$ DQPSK - High (worst mode) Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5250	56.75	-12.63	44.12	52.76	-8.64	peak
2	5964	55.77	-10.23	45.54	52.76	-7.22	peak
3	6916	54.61	-8.8	45.81	52.76	-6.95	peak
4	7426	54.71	-7.09	47.62	74	-26.38	peak
5	8242	54.3	-7.48	46.82	74	-27.18	peak
6	8854	55.37	-7.88	47.49	52.76	-5.27	peak

 $\pi/4$ DQPSK - High (worst mode) Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5658	56.5	-11.88	44.62	52.76	-8.14	peak
2	6134	55.56	-9.98	45.58	52.76	-7.18	peak
3	6780	54.83	-8.99	45.84	52.76	-6.92	peak
4	7562	54.49	-7.22	47.27	74	-26.73	peak
5	8276	54.63	-7.36	47.27	74	-26.73	peak
6	8854	54.25	-7.88	46.37	52.76	-6.39	peak

8DPSK - Low (worst mode) Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4910	57.24	-12.91	44.33	74	-29.67	peak
2	5998	55.63	-10.12	45.51	52.76	-7.25	peak
3	6270	55.34	-9.94	45.4	52.76	-7.36	peak
4	6882	57.03	-8.82	48.21	52.76	-4.55	peak
5	7460	54.62	-7.09	47.53	74	-26.47	peak
6	8242	54.31	-7.48	46.83	74	-27.17	peak

8DPSK - Low (worst mode) Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	3992	57.59	-15.01	42.58	74	-31.42	peak
2	5046	56.47	-12.62	43.85	74	-30.15	peak
3	5352	56.85	-12.58	44.27	74	-29.73	peak
4	5998	55.68	-10.12	45.56	52.76	-7.2	peak
5	6780	54.94	-8.99	45.95	52.76	-6.81	peak
6	7562	54.67	-7.22	47.45	74	-26.55	peak

8DPSK - Middle (worst mode) Horizontal

No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5386	56.34	-12.54	43.8	74	-30.2	peak
2	6134	55.28	-9.98	45.3	52.76	-7.46	peak
3	6950	55.06	-8.79	46.27	52.76	-6.49	peak
4	7460	54.75	-7.09	47.66	74	-26.34	peak
5	8276	54.37	-7.36	47.01	74	-26.99	peak
6	8820	54.64	-7.83	46.81	52.76	-5.95	peak

8DPSK - Middle (worst mode) Vertical

No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4944	56.53	-12.85	43.68	74	-30.32	peak
2	5998	55.81	-10.12	45.69	52.76	-7.07	peak
3	6882	55.33	-8.82	46.51	52.76	-6.25	peak
4	7460	54.34	-7.09	47.25	74	-26.75	peak
5	8208	54.93	-7.62	47.31	74	-26.69	peak
6	8820	55.11	-7.83	47.28	52.76	-5.48	peak

8DPSK - High (worst mode) Horizontal

No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4944	57.46	-12.85	44.61	74	-29.39	peak
2	5522	55.98	-12.1	43.88	52.76	-8.88	peak
3	6134	56.55	-9.98	46.57	52.76	-6.19	peak
4	6814	54.74	-8.86	45.88	52.76	-6.88	peak
5	7426	54.68	-7.09	47.59	74	-26.41	peak
6	8208	55.3	-7.62	47.68	74	-26.32	peak

8DPSK - High (worst mode) Vertical

No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5556	56.14	-12.09	44.05	52.76	-8.71	peak
2	5998	55.66	-10.12	45.54	52.76	-7.22	peak
3	6780	54.85	-8.99	45.86	52.76	-6.9	peak
4	7426	54.14	-7.09	47.05	74	-26.95	peak
5	8208	55.2	-7.62	47.58	74	-26.42	peak
6	8820	54.41	-7.83	46.58	52.76	-6.18	peak

Node:

1. Testing was carried out within frequency range 9kHz to the tenth harmonics. The measurement results below 30MHz and 18GHz - 26.5GHz were greater than 20dB below the limit, so only the radiated spurious emissions from 30MHz to 18GHz were reported..
2. Radiated emissions measured in frequency above 1GHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Result formula:
Correction Factor = antenna factor + cable loss – amplifier gain;
Reading = Reading Amplitude in the instrument;
Result = Correction Factor + Reading;
Margin (dB) = result in dBuV/m – limit in dBuV/m.
5. According to section part 15.247(d), frequencies other than those required by part 15.205(a) are limited to the level of the intended emission (min. 72.76) minus 20dB.

Restricted band Requirements							
GFSK - Low (worst mode)							
Horizontal							
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2376.8	59.39	-21.08	38.31	74	-35.69	peak
2	2376.8	46.35	-21.08	25.27	54	-28.73	AVG
3	2390	57.18	-21.03	36.15	74	-37.85	peak
4	2390	44.89	-21.03	23.86	54	-30.14	AVG
5	2402	113.77	-20.99	92.78	116.2	-23.42	peak
Vertical							
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2377.8	58.96	-21.07	37.89	74	-36.11	peak
2	2377.8	46.17	-21.07	25.1	54	-28.9	AVG
3	2390	56.81	-21.03	35.78	74	-38.22	peak
4	2390	42.89	-21.03	21.86	54	-32.14	AVG
5	2402	102.92	-20.99	81.93	116.2	-34.27	peak
GFSK - High (worst mode)							
Horizontal							
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2480.02	110.7	-20.91	89.79	116.2	-26.41	peak
2	2483.5	58.84	-20.91	37.93	74	-36.07	peak
3	2483.5	46.15	-20.91	25.24	54	-28.76	AVG
4	2483.92	64.28	-20.91	43.37	74	-30.63	peak
5	2483.92	51.77	-20.91	30.86	54	-23.14	AVG
Vertical							
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2479.84	95.15	-20.91	74.24	116.2	-41.96	peak
2	2483.5	59.53	-20.91	38.62	74	-35.38	peak
3	2483.5	46.87	-20.91	25.96	54	-28.04	AVG
4	2488.48	59.68	-20.91	38.77	74	-35.23	peak
5	2488.48	47.38	-20.91	26.47	54	-27.53	AVG

Correction Factor = antenna factor + cable loss – amplifier gain;

Reading = Reading Amplitude in the instrument;

Result = Correction Factor + Reading;

Margin = Result – Limit

$\pi/4$ DQPSK - Low (worst mode)							
Horizontal							
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2382.2	60.11	-21.06	39.05	74	-34.95	peak
2	2382.2	44.92	-21.06	23.86	54	-30.14	AVG
3	2390	58.04	-21.03	37.01	74	-36.99	peak
4	2390	46.27	-21.03	25.24	54	-28.76	AVG
5	2402	110.61	-20.99	89.62	116.2	-26.58	peak
Vertical							
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2330.4	62.11	-21.23	40.88	74	-33.12	peak
2	2330.4	47.94	-21.23	26.71	54	-27.29	AVG
3	2390	56.92	-21.03	35.89	74	-38.11	peak
4	2390	42.57	-21.03	21.54	54	-32.46	AVG
5	2402	100.04	-20.99	79.05	116.2	-37.15	peak
$\pi/4$ DQPSK - High (worst mode)							
Horizontal							
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2479.84	107.06	-20.91	86.15	116.2	-30.05	peak
2	2483.5	58.73	-20.91	37.82	74	-36.18	peak
3	2483.5	44.45	-20.91	23.54	54	-30.46	AVG
4	2484.04	61.18	-20.91	40.27	74	-33.73	peak
5	2484.04	47.8	-20.91	26.89	54	-27.11	AVG
Vertical							
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2479.84	93.67	-20.91	72.76	116.2	-43.44	peak
2	2483.5	58.55	-20.91	37.64	74	-36.36	peak
3	2483.5	45.14	-20.91	24.23	54	-29.77	AVG
4	2491	63.83	-20.92	42.91	74	-31.09	peak
5	2491	51.67	-20.92	30.75	54	-23.25	AVG

Correction Factor = antenna factor + cable loss – amplifier gain;

Reading = Reading Amplitude in the instrument;

Result = Correction Factor + Reading;

Margin = Result – Limit

8DPSK - Low (worst mode)							
Horizontal							
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2377	60.63	-21.08	39.55	74	-34.45	peak
2	2377	44.77	-21.08	23.69	54	-30.31	AVG
3	2390	57.51	-21.03	36.48	74	-37.52	peak
4	2390	44.78	-21.03	23.75	54	-30.25	AVG
5	2402.2	111.03	-20.99	90.04	116.2	-26.16	peak
Vertical							
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2362.4	59.68	-21.15	38.53	74	-35.47	peak
2	2362.4	46.39	-21.15	25.24	54	-28.76	AVG
3	2390	57.18	-21.03	36.15	74	-37.85	peak
4	2390	42.67	-21.03	21.64	54	-32.36	AVG
5	2402.2	100.35	-20.99	79.36	116.2	-36.84	peak
8DPSK - High (worst mode)							
Horizontal							
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2480.02	107.42	-20.91	86.51	116.2	-29.69	peak
2	2483.5	63.96	-20.91	43.05	74	-30.95	peak
3	2483.5	51.47	-20.91	30.56	54	-23.44	AVG
4	2484.04	62.23	-20.91	41.32	74	-32.68	peak
5	2484.04	47.78	-20.91	26.87	54	-27.13	AVG
Vertical							
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2479.96	93.89	-20.91	72.98	116.2	-43.22	peak
2	2483.5	58.04	-20.91	37.13	74	-36.87	peak
3	2483.5	45.6	-20.91	24.69	54	-29.31	AVG
4	2489.98	65.08	-20.91	44.17	74	-29.83	peak
5	2489.98	54.77	-20.91	33.86	54	-20.14	AVG

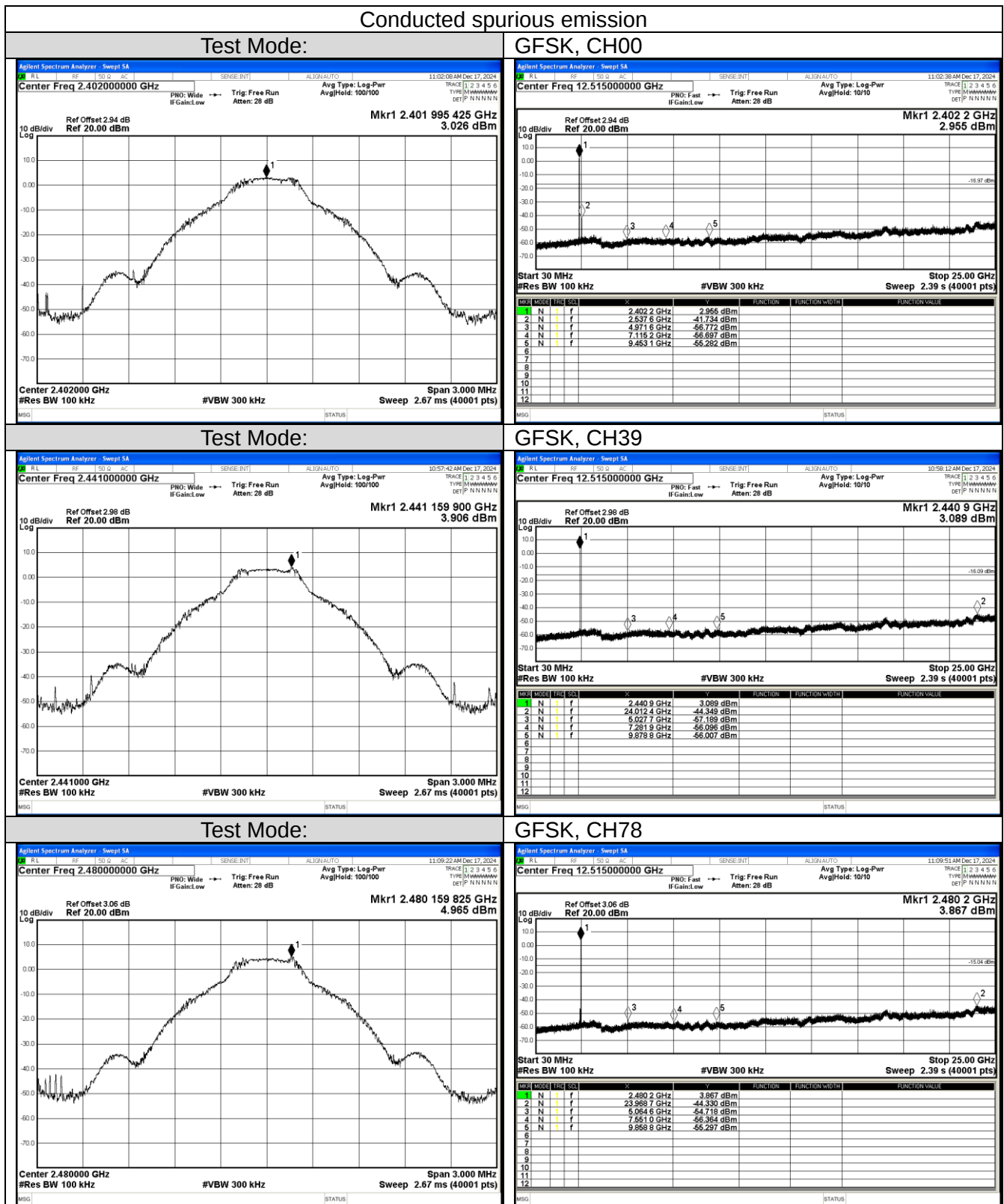
Correction Factor = antenna factor + cable loss – amplifier gain;

Reading = Reading Amplitude in the instrument;

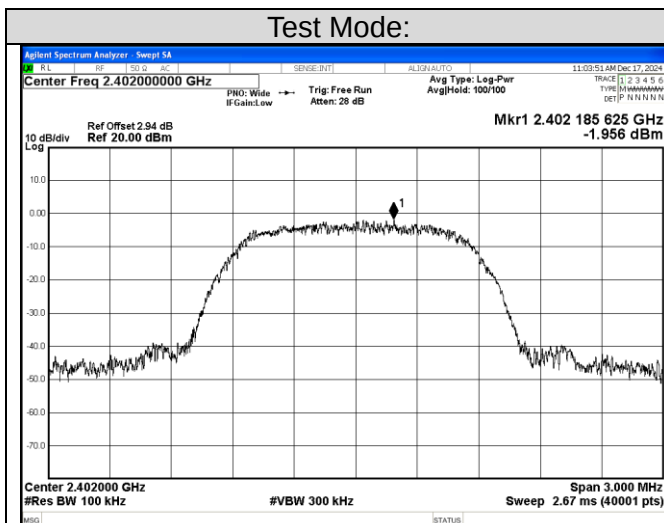
Result = Correction Factor + Reading;

Margin = Result – Limit

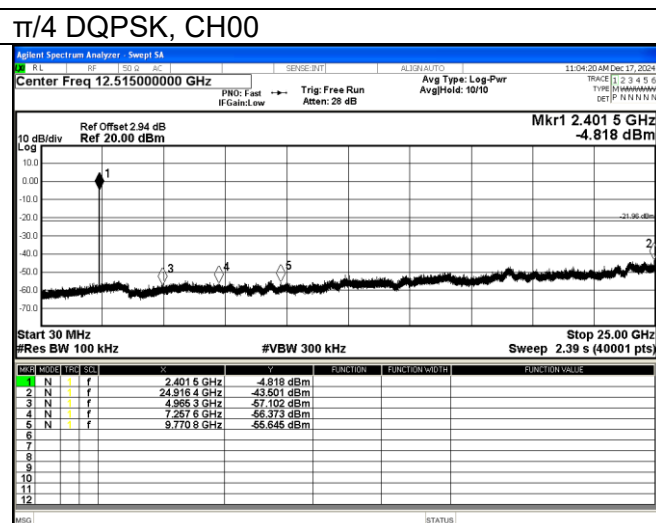
Appendix A.3 Test Results of Conducted Spurious Emissions Measured in 100 kHz Bandwidth



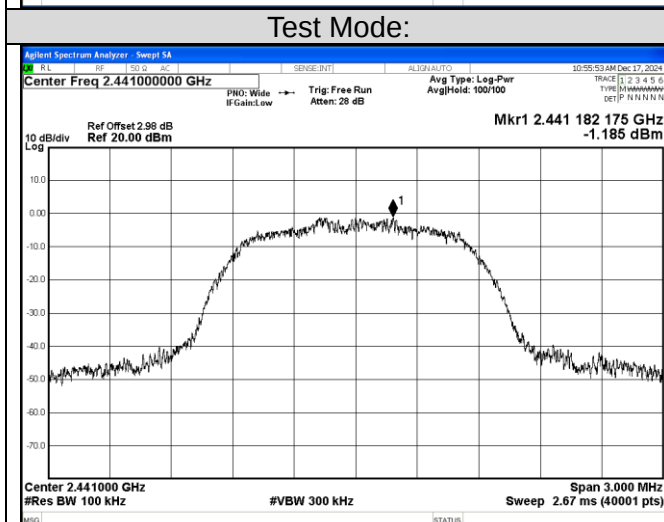
Test Mode:



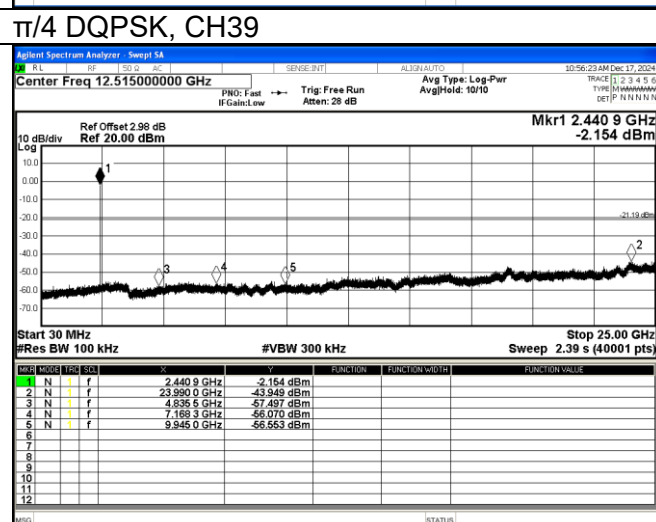
$\pi/4$ DQPSK, CH00



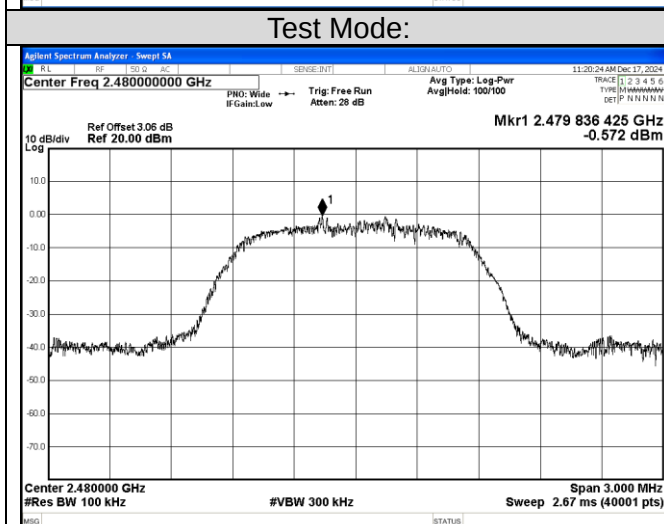
Test Mode:



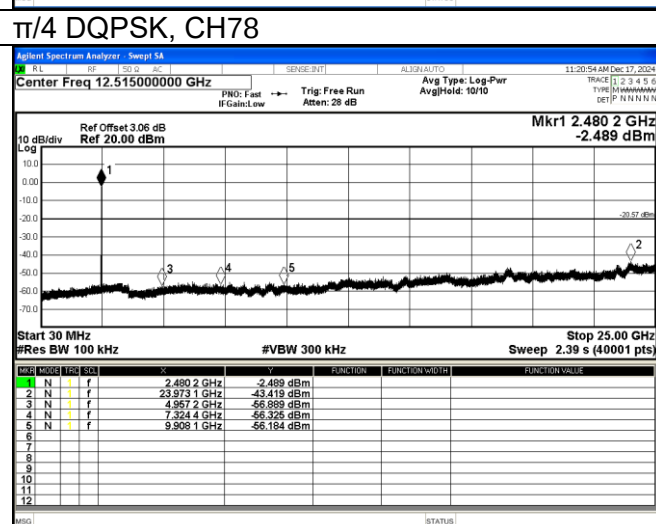
$\pi/4$ DQPSK, CH39



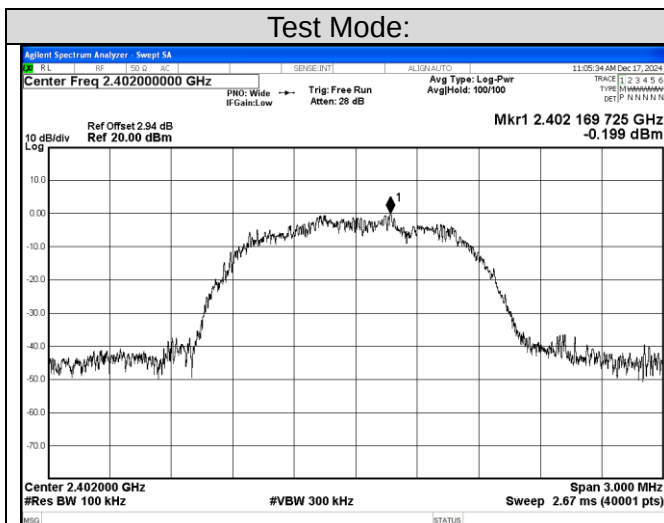
Test Mode:



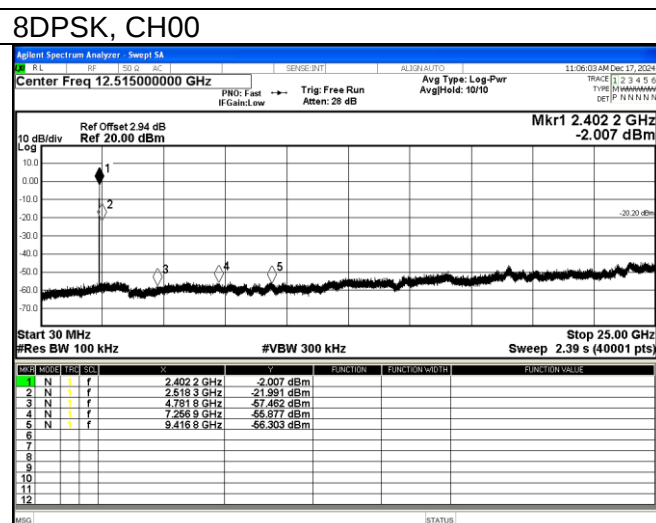
$\pi/4$ DQPSK, CH78



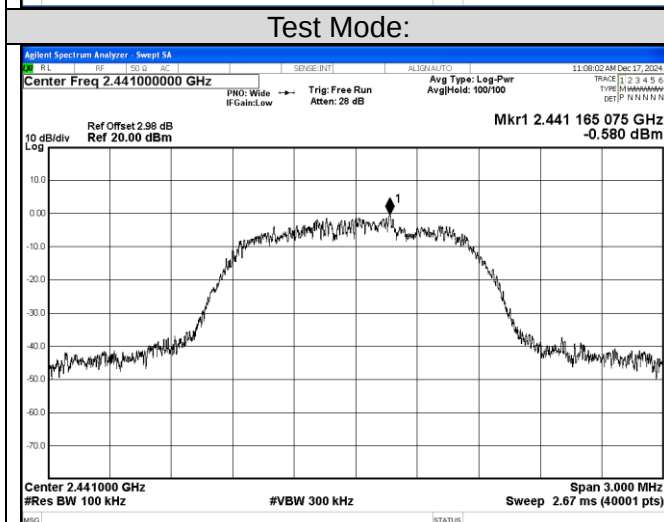
Test Mode:



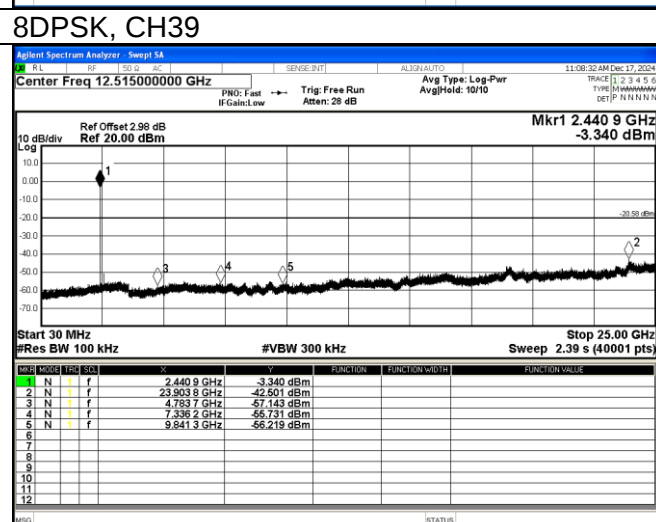
8DPSK, CH00



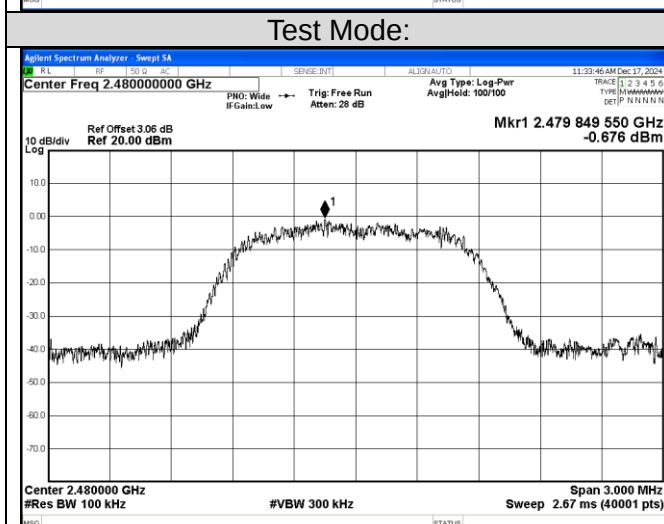
Test Mode:



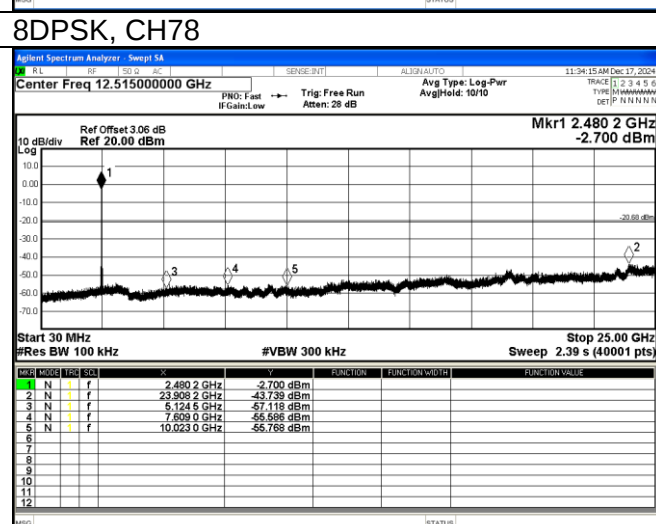
8DPSK, CH39



Test Mode:



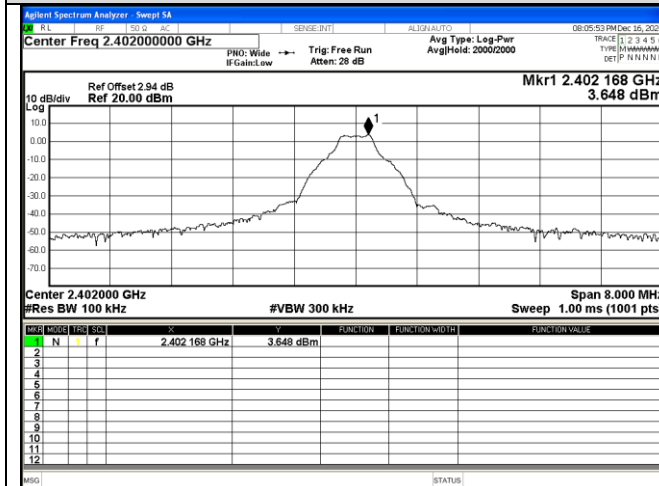
8DPSK, CH78



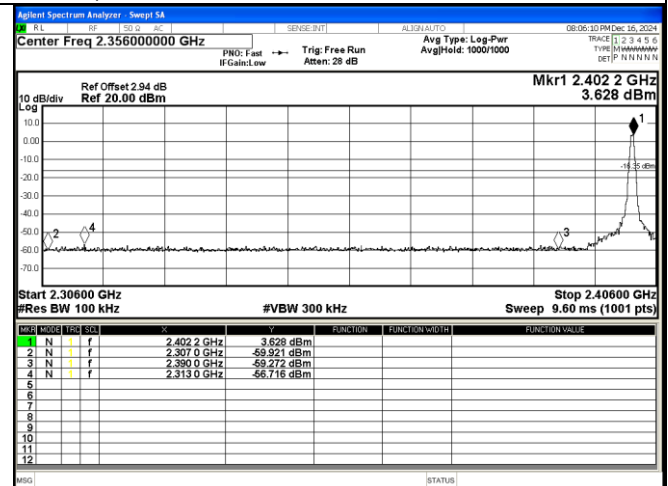


For Band edge (it's also the reference level for conducted spurious emission)

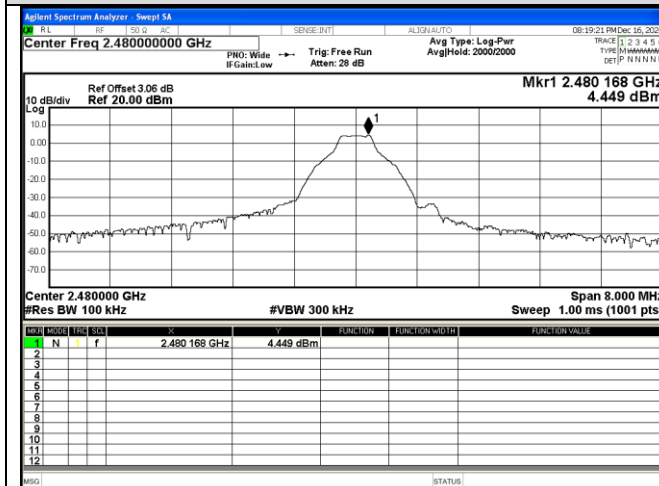
Test Mode:



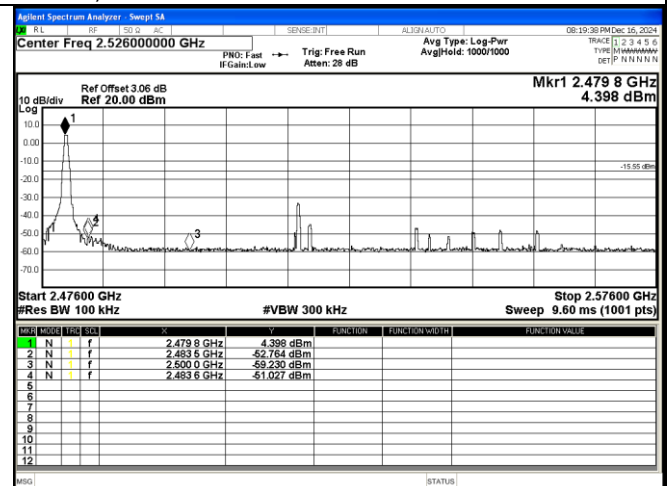
GFSK, CH00



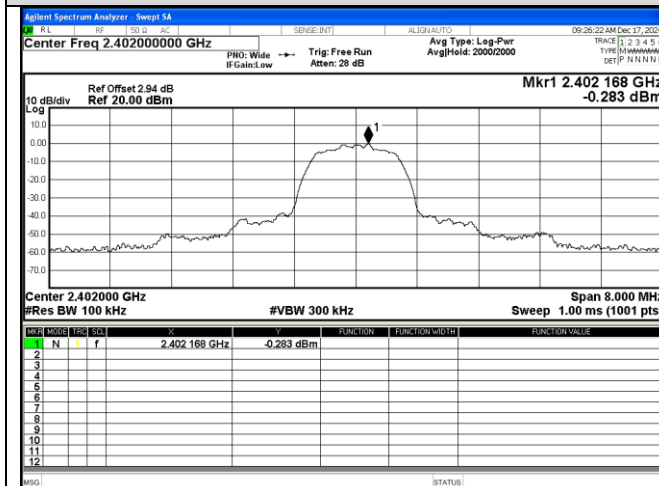
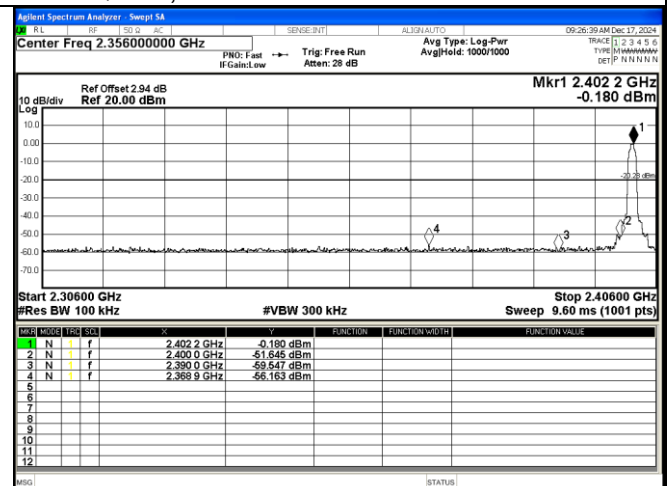
Test Mode:



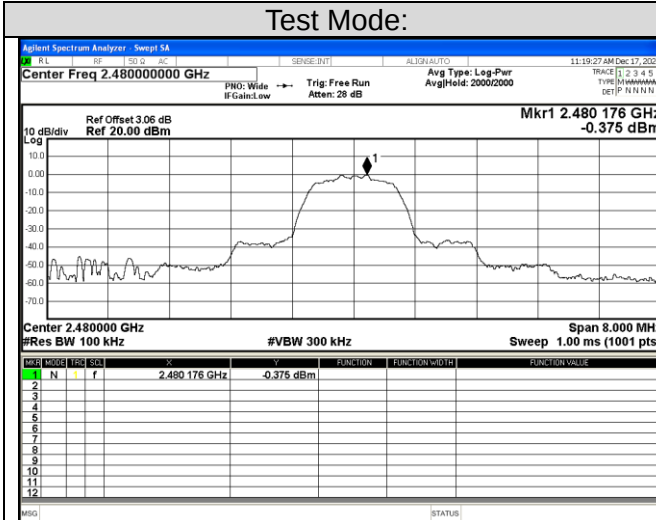
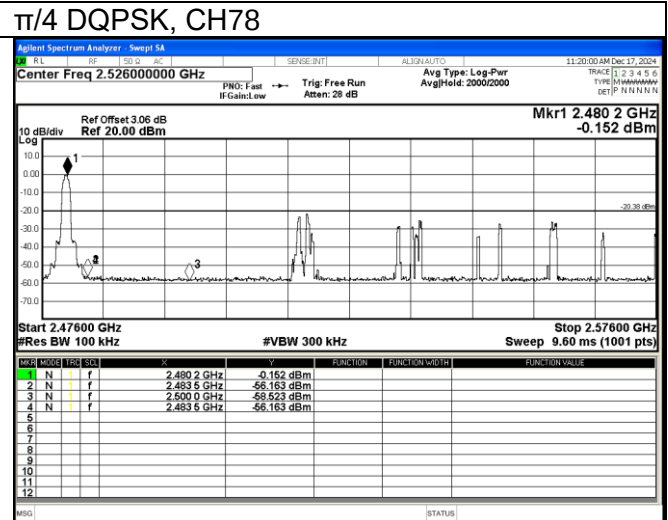
GFSK, CH78



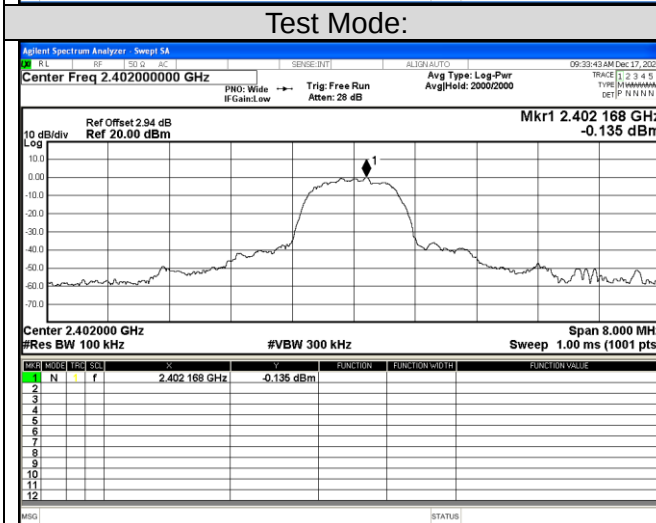
Test Mode:

 $\pi/4$ DQPSK, CH00

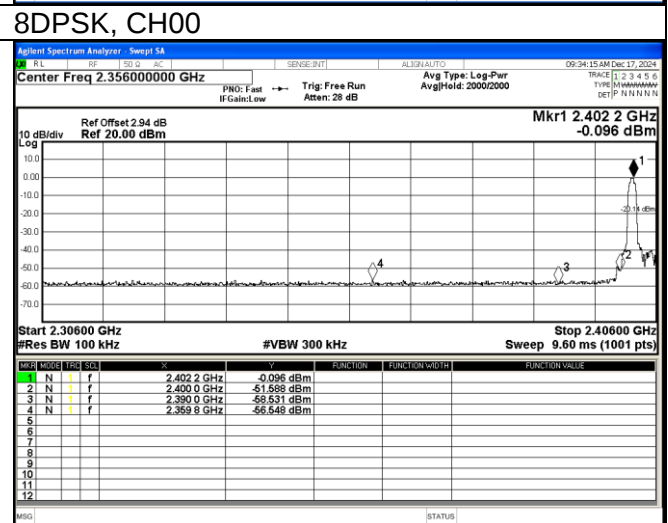
Test Mode:


 $\pi/4$ DQPSK, CH78


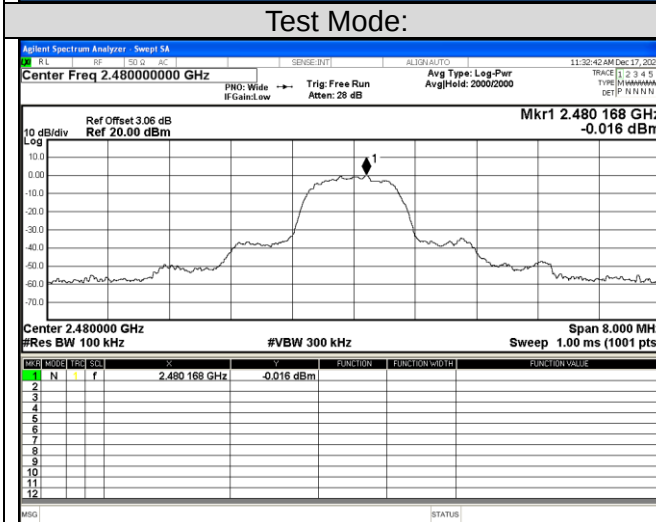
Test Mode:



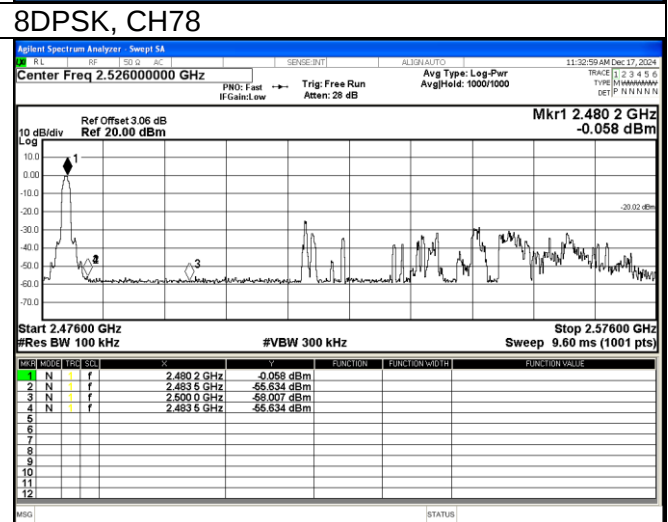
8DPSK, CH00



Test Mode:

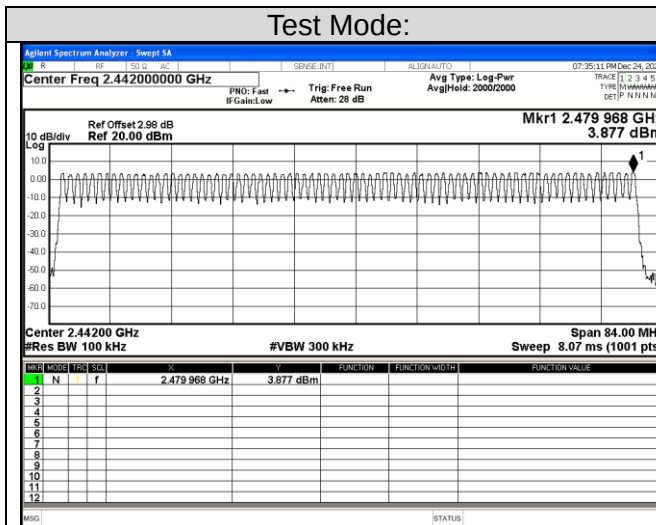


8DPSK, CH78

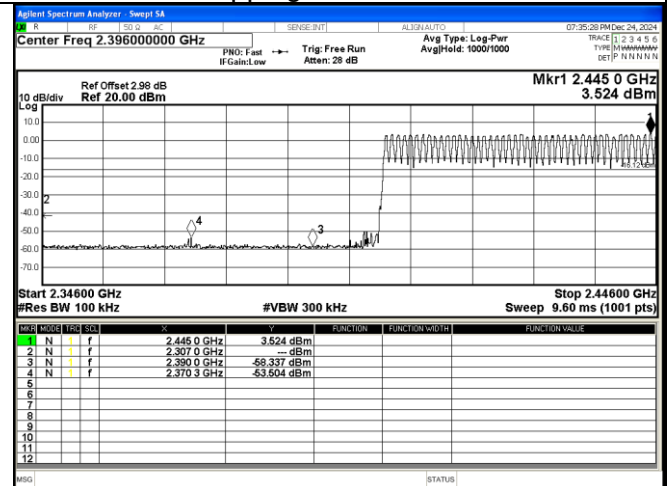




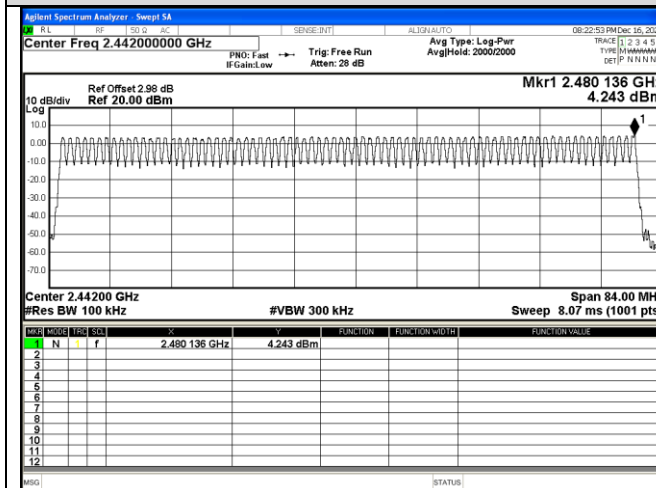
Test Mode:



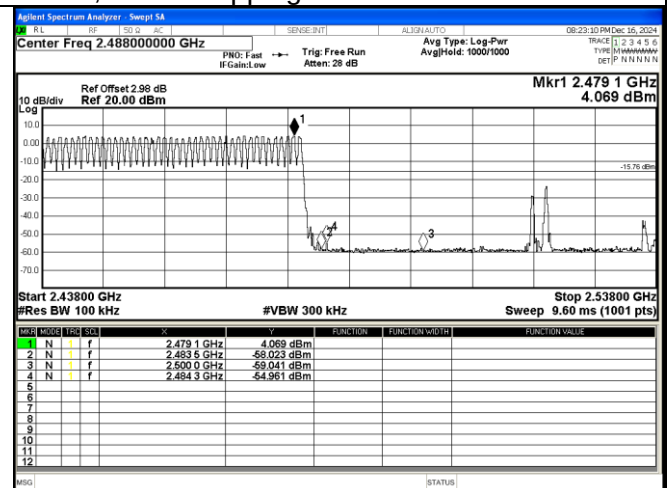
GFSK, CH00 Hopping



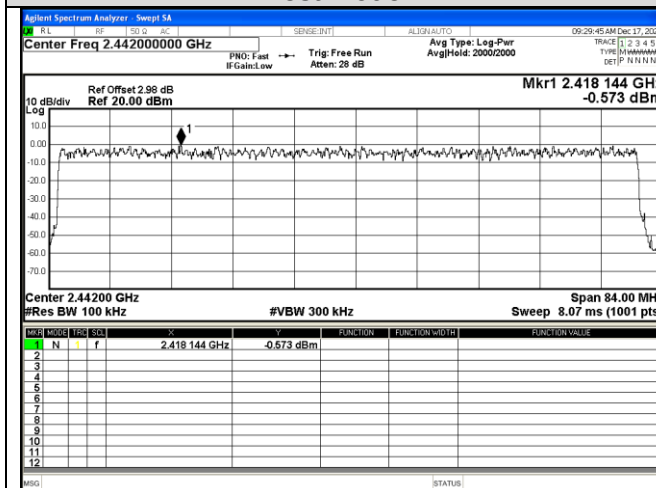
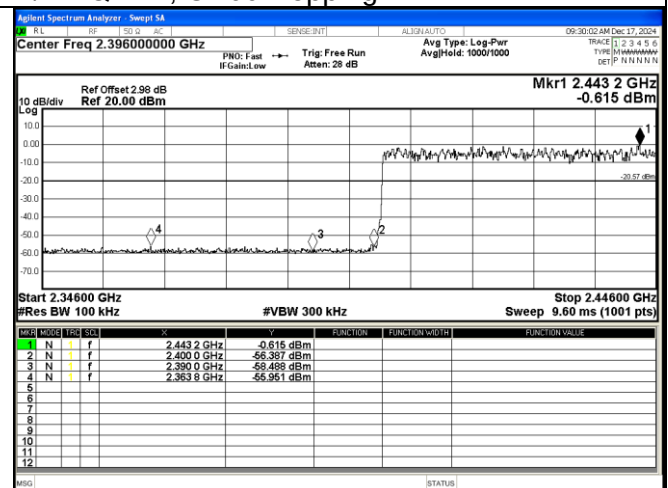
Test Mode:



GFSK, CH78 Hopping

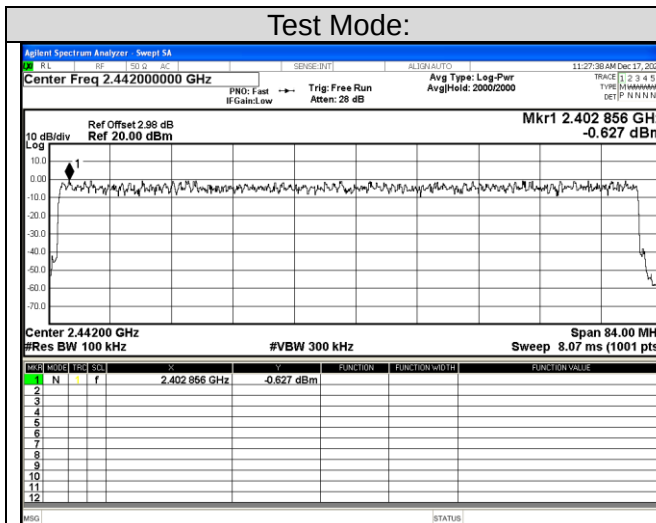
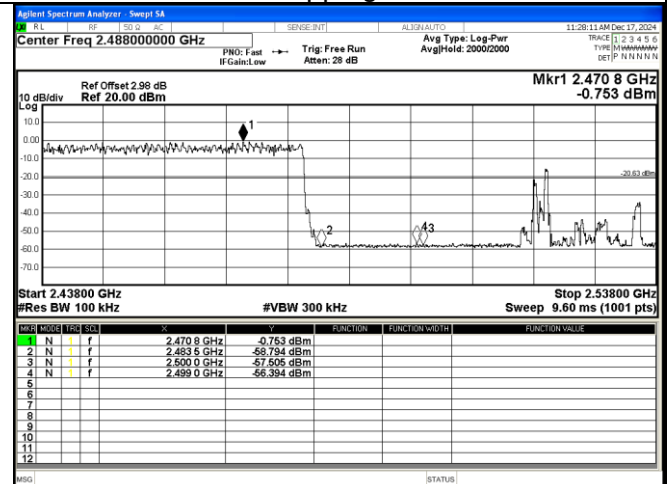


Test Mode:

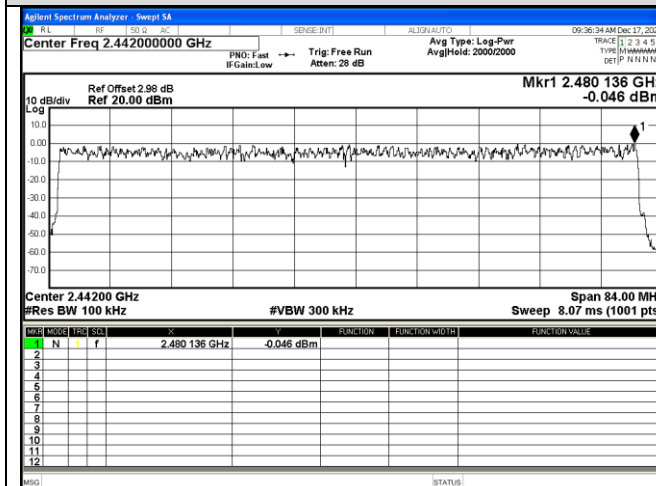
 $\pi/4$ DQPSK, CH00 Hopping



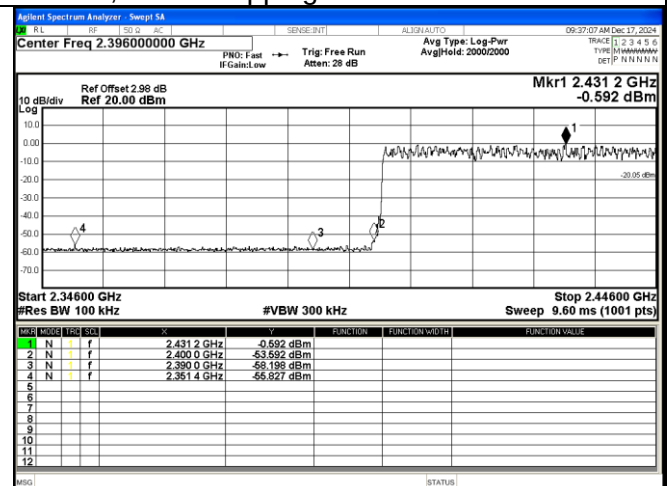
Test Mode:

 $\pi/4$ DQPSK, CH78 Hopping

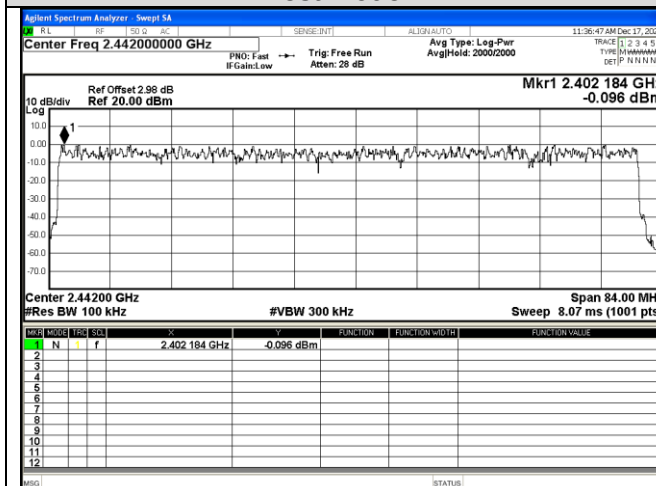
Test Mode:



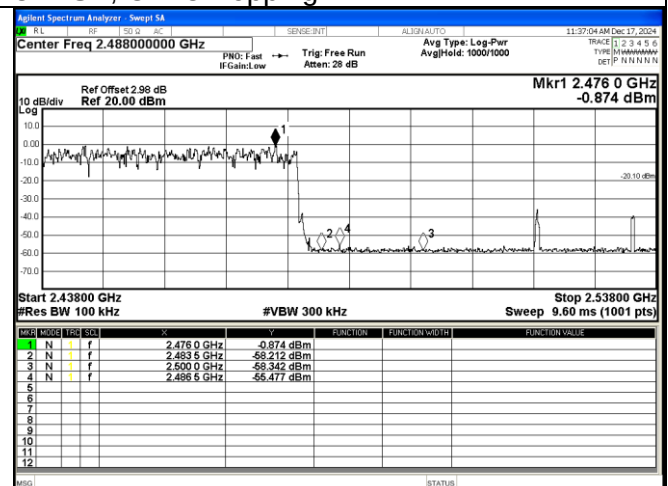
8DPSK, CH00 Hopping



Test Mode:

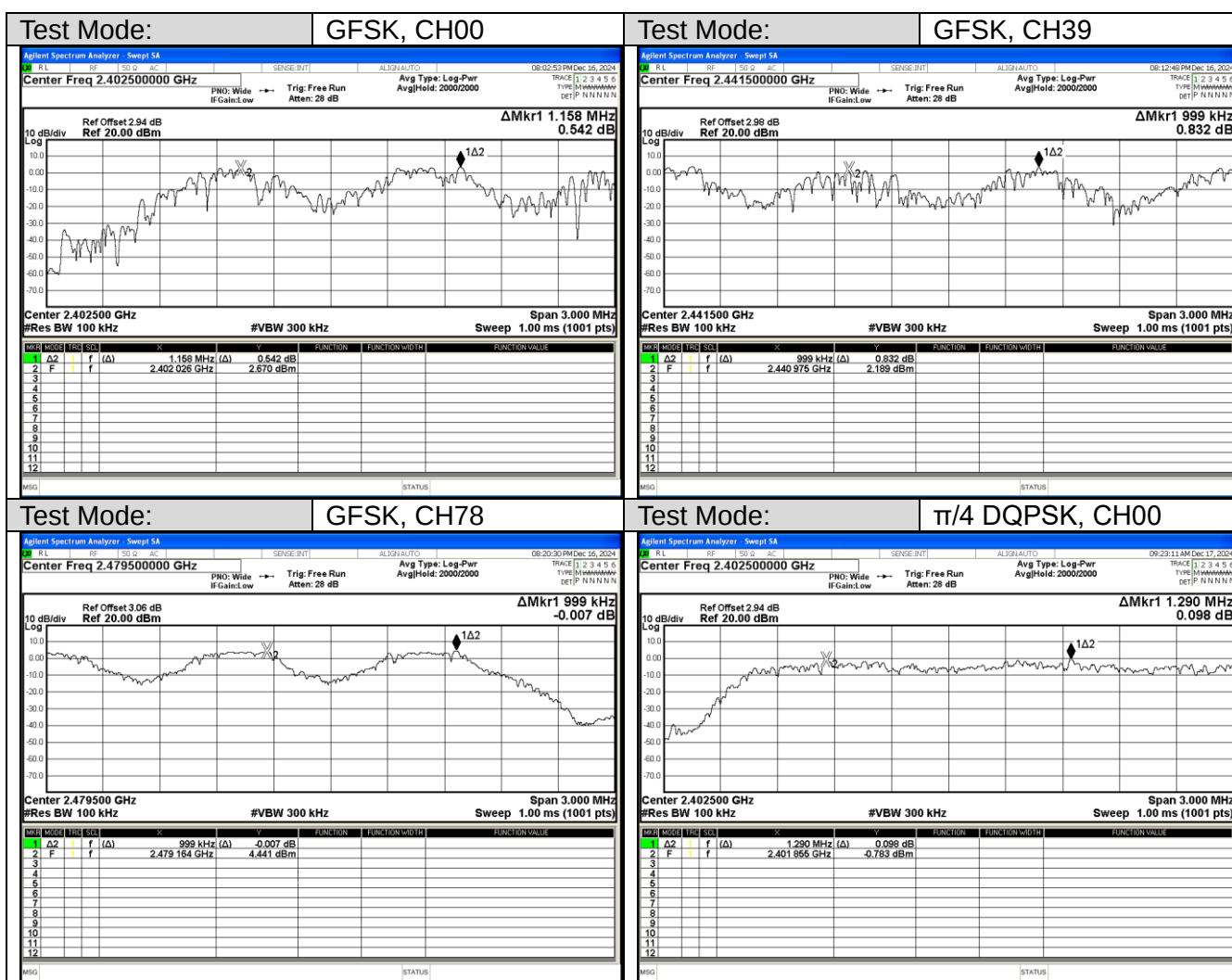


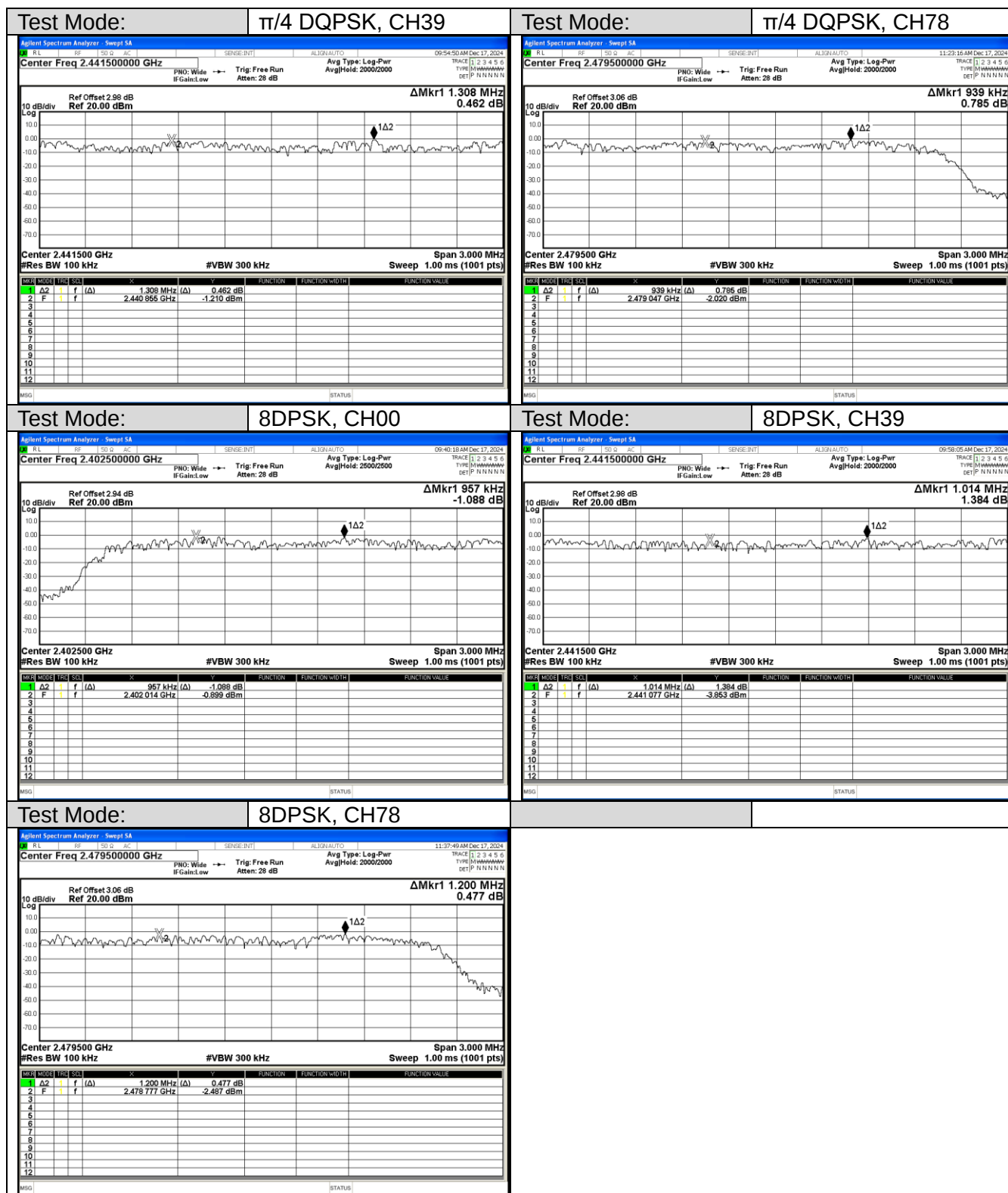
8DPSK, CH78 Hopping



Appendix A.4 Test Results of Carrier Frequency Separation

Mode	HFS (MHz)	Limit (MHz)	Verdict
GFSK, CH00	1.158	0.667	Pass
GFSK, CH39	0.999	0.559	Pass
GFSK, CH78	0.999	0.582	Pass
$\pi/4$ DQPSK, CH00	1.29	0.667	Pass
$\pi/4$ DQPSK, CH39	1.308	0.88	Pass
$\pi/4$ DQPSK, CH78	0.939	0.885	Pass
8DPSK, CH00	0.957	0.881	Pass
8DPSK, CH39	1.014	0.88	Pass
8DPSK, CH78	1.2	0.856	Pass

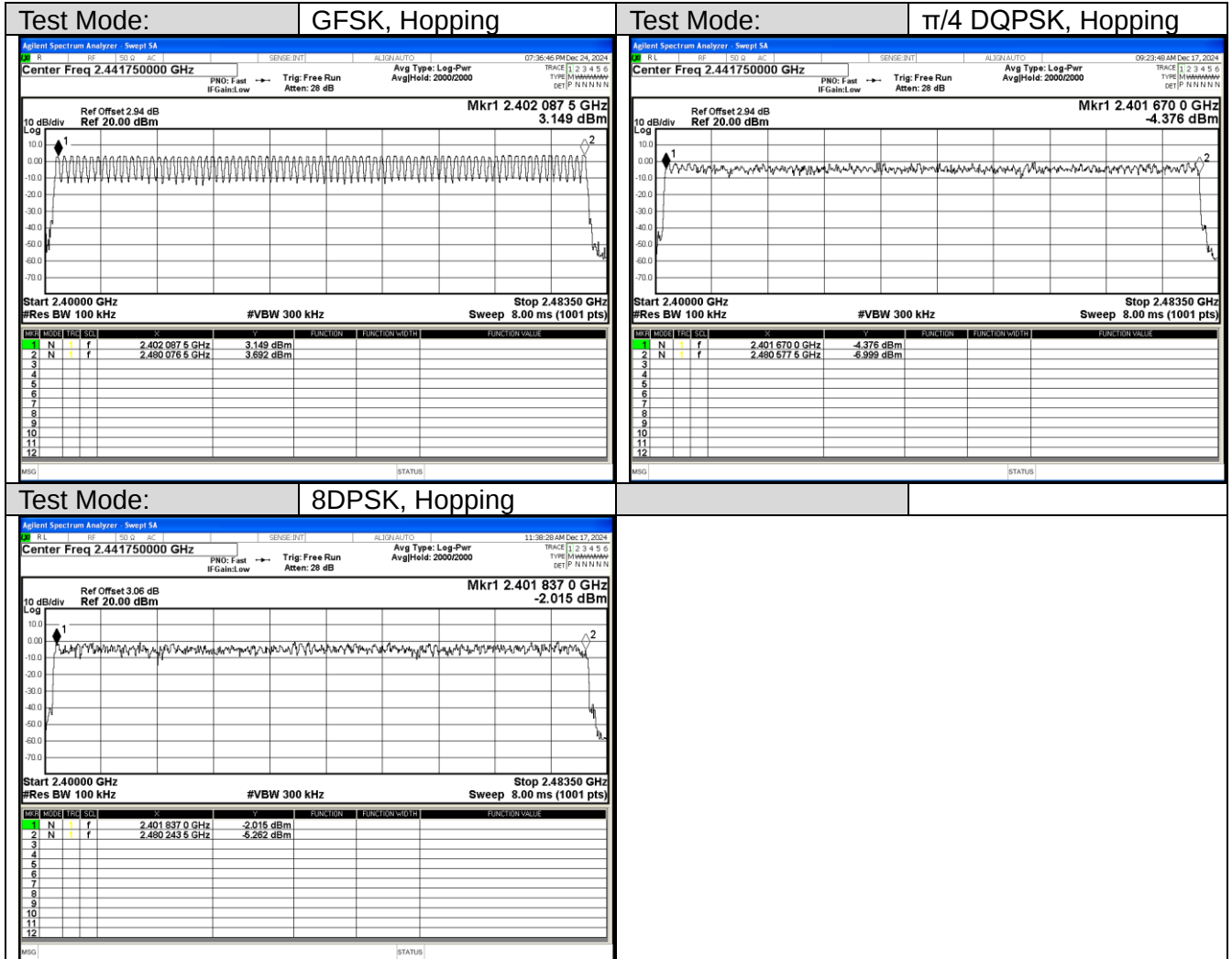






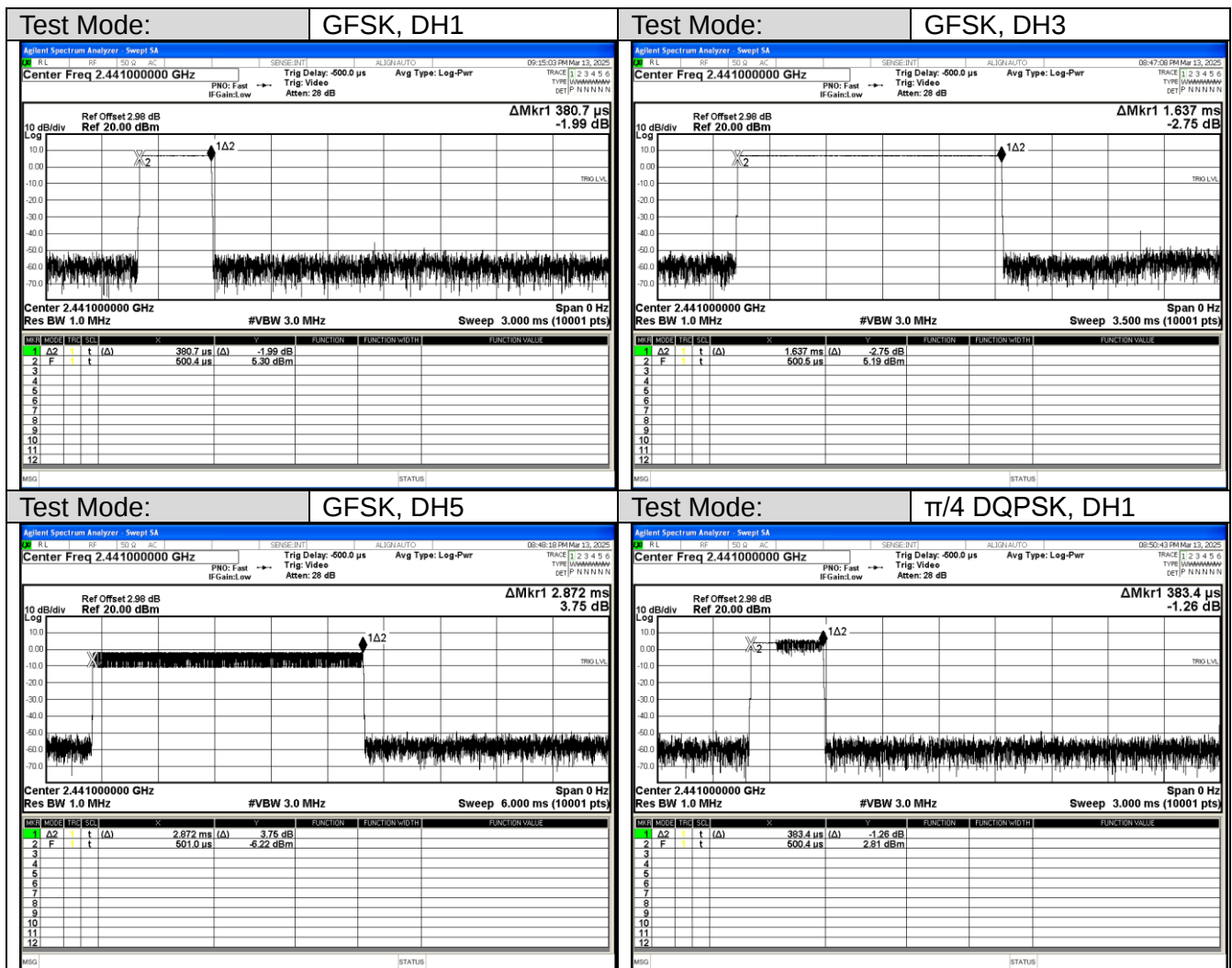
Appendix A.5 Test Results of Number of Hopping Frequency

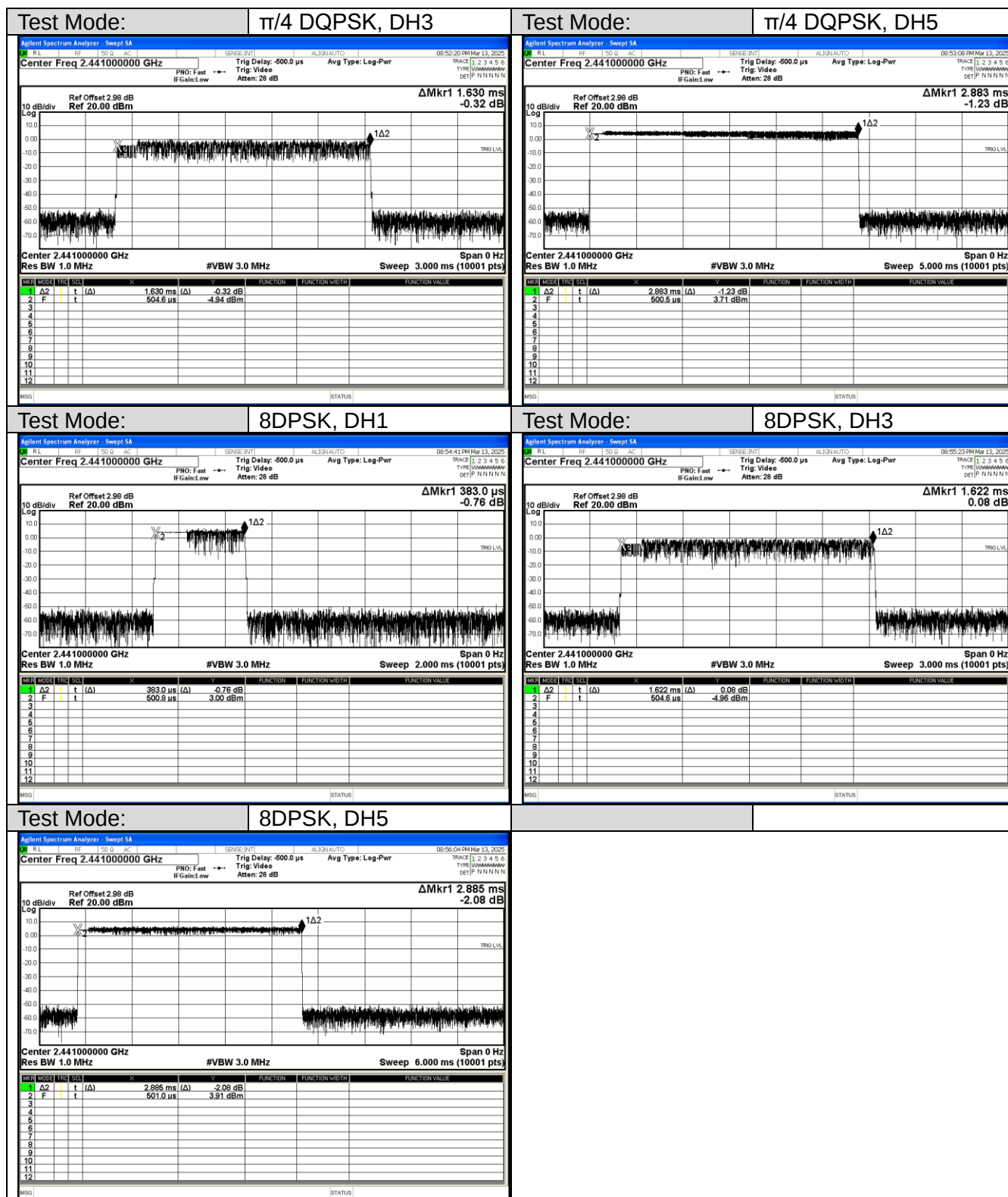
Mode	Hopping Number	Limit	Verdict
GFSK, Hopping	79	15	Pass
$\pi/4$ DQPSK, Hopping	79	15	Pass
8DPSK, Hopping	79	15	Pass



Appendix A.6 Test Results of Time of Occupancy

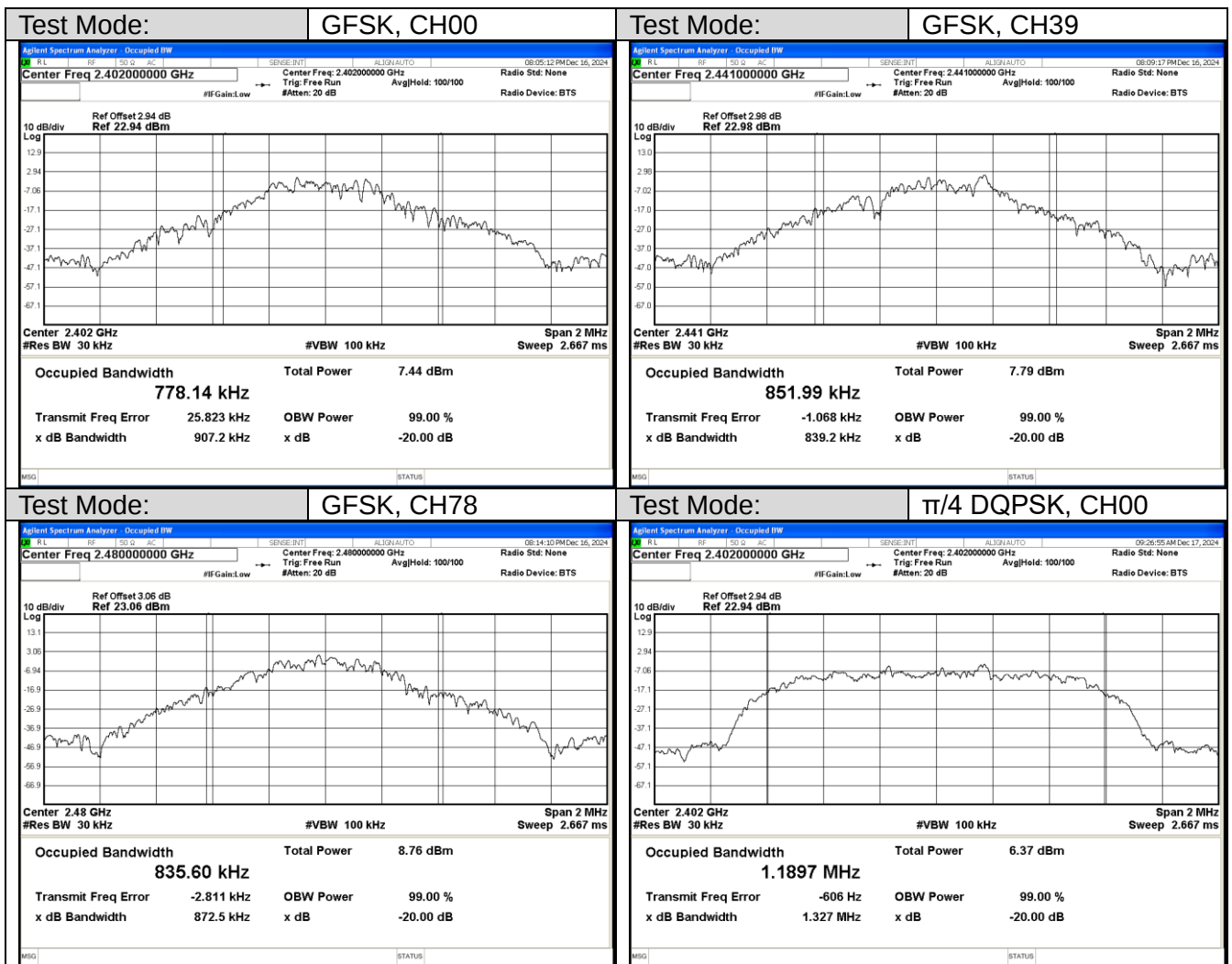
Mode	Frequency (MHz)	Pulse Time (ms)	Total Dwell Time (ms)	Period Time (ms)	Limit (ms)	Verdict
GFSK, DH1	2441	0.381	120.301	31600	400	Pass
GFSK, DH3	2441	1.637	258.638	31600	400	Pass
GFSK, DH5	2441	2.872	272.285	31600	400	Pass
$\pi/4$ DQPSK, DH1	2441	0.383	121.154	31600	400	Pass
$\pi/4$ DQPSK, DH3	2441	1.63	257.524	31600	400	Pass
$\pi/4$ DQPSK, DH5	2441	2.883	273.308	31600	400	Pass
8DPSK, DH1	2441	0.383	121.028	31600	400	Pass
8DPSK, DH3	2441	1.622	256.292	31600	400	Pass
8DPSK, DH5	2441	2.885	273.479	31600	400	Pass

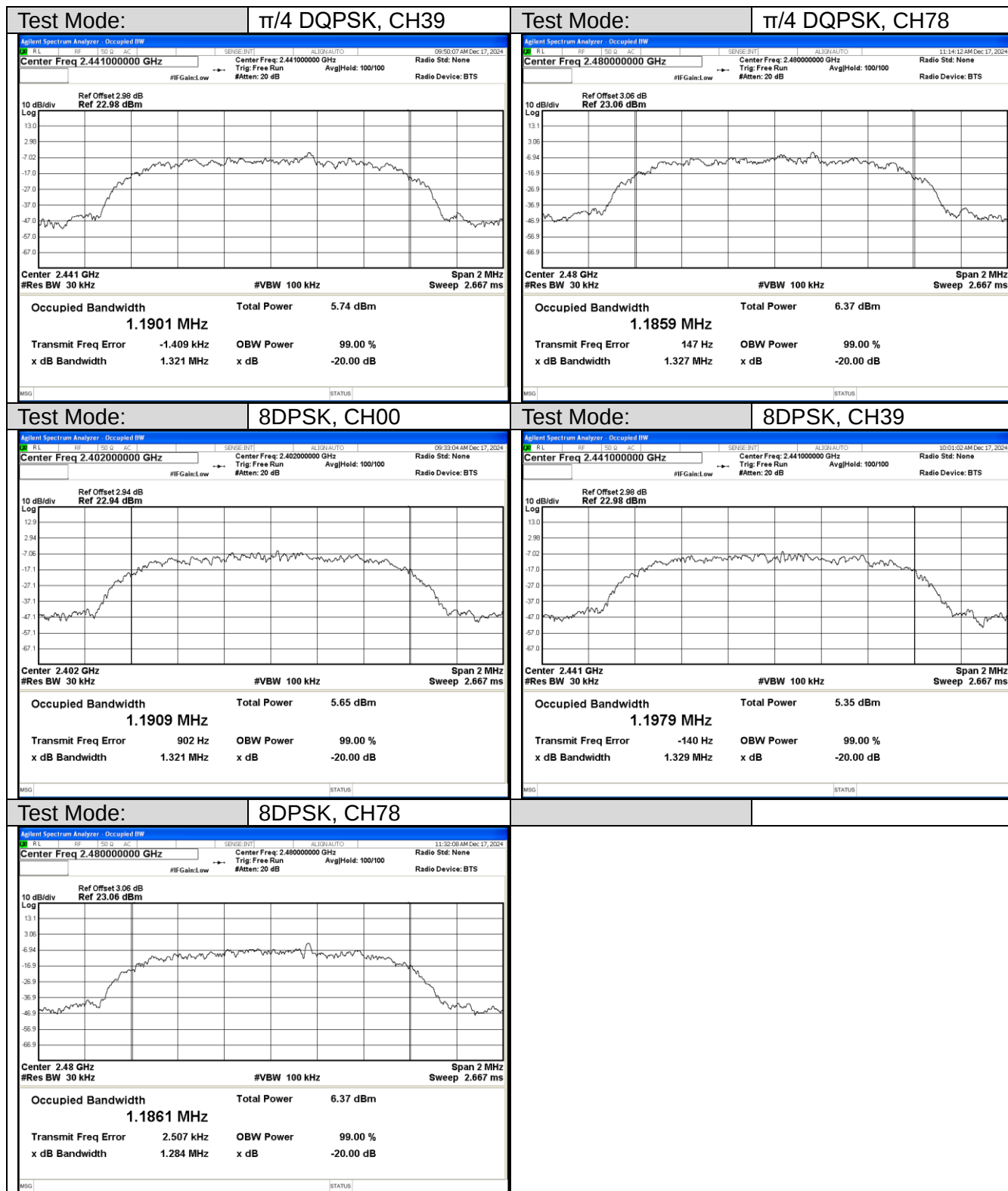




Appendix A.7 Test Results of 20dB & 99% Bandwidth

Mode	Frequency [MHz]	99% Bandwidth [MHz]	20dB Bandwidth [MHz]
GFSK	2402	0.7781	0.9072
GFSK	2441	0.852	0.8392
GFSK	2480	0.8356	0.8725
$\pi/4$ DQPSK	2402	1.1897	1.327
$\pi/4$ DQPSK	2441	1.1901	1.3206
$\pi/4$ DQPSK	2480	1.1859	1.3271
8DPSK	2402	1.1909	1.3215
8DPSK	2441	1.1979	1.3291
8DPSK	2480	1.1861	1.2844





Appendix A.8 Test Results of Maximum Conducted Output Power

Mode	Frequency [MHz]	Measured of Conducted Power		Limit [W]
		dBm	W	
GFSK	2402	3.679	0.0023	< 0.125
	2441	3.907	0.0025	< 0.125
	2480	4.545	0.0028	< 0.125
$\pi/4$ DQPSK	2402	2.134	0.0016	< 0.125
	2441	1.99	0.0016	< 0.125
	2480	2.449	0.0018	< 0.125
8DPSK	2402	2.606	0.0018	< 0.125
	2441	2.468	0.0018	< 0.125
	2480	3.2	0.0021	< 0.125

Note:

- 1) The cable loss is taken into account in results.
- 2) Antenna gain(G) of Bluetooth: 2.67 dBi