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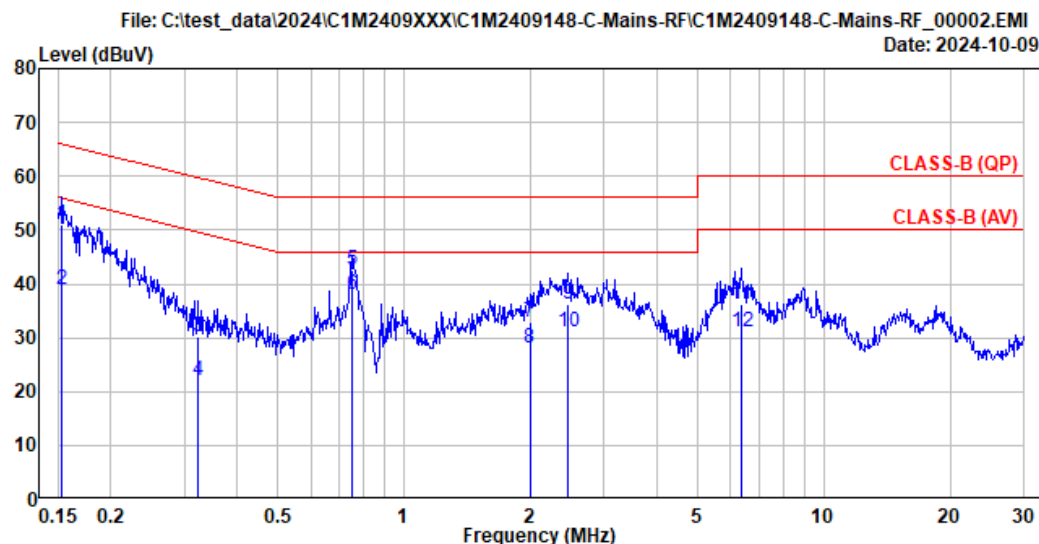
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A.1 CONDUCTED EMISSION

Test Date	2024/10/09	Temp./Hum.	24°C/54%
Test Voltage	AC 120V 60Hz (Via AC Adapter)	Tested By	Roy Hung



Site No.	: No.8 Shielded Room	Data No.	: 2
Instrument 1	: Receiver ESR(774)		
Instrument 2	: ENV432 (567)(A) CE-08 ESH3-Z2 (354)		
Limit	: CLASS-B (QP)	Phase	: Neutral
Environment	: 24°C/54%	Test Rating	: 120Vac/60Hz
EUT Model	: 16Z90TP	Engineer	: Roy Hung
Test Mode	: Operating		

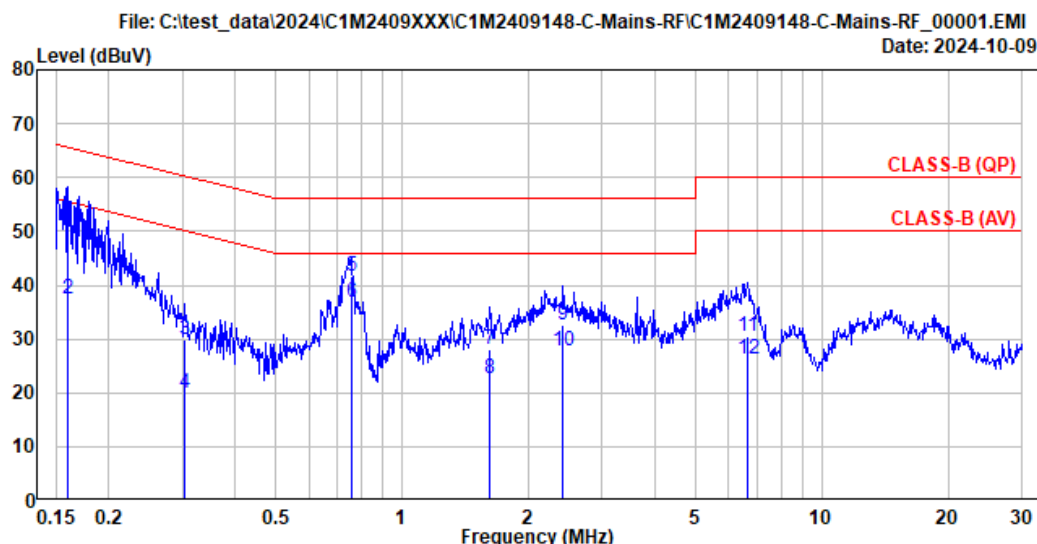
	Freq. (MHz)	AMN Factor (dB)	Cable Loss (dB)	Pulse Att. (dB)	Reading (dBμV)	Emission Level (dBμV)	Limits (dBμV)	Margin (dB)	Remark
1	0.152	10.27	0.03	9.85	30.84	50.99	65.88	14.89	QP
2	0.152	10.27	0.03	9.85	18.78	38.93	55.88	16.95	Average
3	0.322	10.26	0.03	9.85	10.07	30.21	59.67	29.46	QP
4	0.322	10.26	0.03	9.85	2.04	22.18	49.67	27.49	Average
5	0.754	10.27	0.04	9.85	22.54	42.70	56.00	13.30	QP
6	0.754	10.27	0.04	9.85	17.74	37.90	46.00	8.10	Average
7	1.993	10.29	0.06	9.86	12.71	32.92	56.00	23.08	QP
8	1.993	10.29	0.06	9.86	7.89	28.10	46.00	17.90	Average
9	2.457	10.30	0.07	9.86	16.06	36.29	56.00	19.71	QP
10	2.457	10.30	0.07	9.86	10.83	31.06	46.00	14.94	Average
11	6.367	10.45	0.10	9.87	15.67	36.09	60.00	23.91	QP
12	6.367	10.45	0.10	9.87	10.81	31.23	50.00	18.77	Average

Remarks: 1. Emission Level(dBμV)= AMN Factor(dB) + Cable Loss(dB) + Pulse Att.(dB) + Reading(dBμV).

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Test Date	2024/10/09	Temp./Hum.	24°C/54%
Test Voltage	AC 120V 60Hz (Via AC Adapter)	Tested By	Roy Hung



Site No.	: No.8 Shielded Room	Data No.	: 1
Instrument 1	: Receiver ESR(774)		
Instrument 2	: ENV432 (567)(A) CE-08 ESH3-Z2 (354)		
Limit	: CLASS-B (QP)	Phase	: Line
Environment	: 24°C/54%	Test Rating	: 120Vac/60Hz
EUT Model	: 16Z90TP	Engineer	: Roy Hung
Test Mode	: Operating		

	Freq. (MHz)	AMN Factor (dB)	Cable Loss (dB)	Pulse Att. (dB)	Reading (dBμV)	Emission Level (dBμV)	Limits (dBμV)	Margin (dB)	Remark
1	0.159	10.26	0.03	9.85	31.34	51.48	65.50	14.02	QP
2	0.159	10.26	0.03	9.85	17.39	37.53	55.50	17.97	Average
3	0.303	10.25	0.03	9.85	9.73	29.86	60.16	30.30	QP
4	0.303	10.25	0.03	9.85	-0.18	19.95	50.16	30.21	Average
5	0.758	10.26	0.04	9.85	21.54	41.69	56.00	14.31	QP
6	0.758	10.26	0.04	9.85	16.66	36.81	46.00	9.19	Average
7	1.617	10.27	0.05	9.86	7.96	28.14	56.00	27.86	QP
8	1.617	10.27	0.05	9.86	2.47	22.65	46.00	23.35	Average
9	2.421	10.28	0.07	9.86	12.47	32.68	56.00	23.32	QP
10	2.421	10.28	0.07	9.86	7.44	27.65	46.00	18.35	Average
11	6.659	10.38	0.11	9.87	10.11	30.47	60.00	29.53	QP
12	6.659	10.38	0.11	9.87	5.83	26.19	50.00	23.81	Average

Remarks: 1. Emission Level(dBμV)= AMN Factor(dB) + Cable Loss(dB) + Pulse Att.(dB) + Reading(dBμV).

A.2 RADIATED EMISSION

Test Date	2024/10/15	Temp./Hum.	23°C/55%
Test Voltage	AC 120V 60Hz (Via AC Adapter)	Tested By	Harry Huang

A.2.1 Emissions within Restricted Frequency Bands

A.2.1.1 Frequency 9kHz~30MHz

The emissions (9kHz~30MHz) not reported for there is no emission be found.

A.2.1.2 Frequency Below 1GHz

Mode	BT (8DPSK)	Frequency	TX 2480MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Reading level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
31.000	23.58	1.38	26.50	35.44	33.90	40.00	6.10	Peak
92.500	15.21	2.40	26.34	40.18	31.45	43.50	12.05	Peak
148.500	16.41	3.05	26.04	45.25	38.66	43.50	4.84	Peak
445.500	21.93	6.20	26.86	38.93	40.19	46.00	5.81	Peak
486.000	22.61	6.53	27.13	28.07	30.08	46.00	15.92	Peak
769.000	24.88	7.65	27.38	34.48	39.64	46.00	6.36	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Reading level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
32.000	23.14	1.39	0.00	13.44	37.97	40.00	2.03	QP
91.500	15.02	2.39	26.34	47.99	39.06	43.50	4.44	Peak
345.500	19.84	5.13	26.08	39.48	38.37	46.00	7.63	Peak
445.500	21.93	6.20	26.86	39.95	41.22	46.00	4.78	Peak
594.000	24.00	6.80	27.47	32.10	35.44	46.00	10.56	Peak
758.000	24.83	7.60	27.39	30.04	35.07	46.00	10.93	Peak

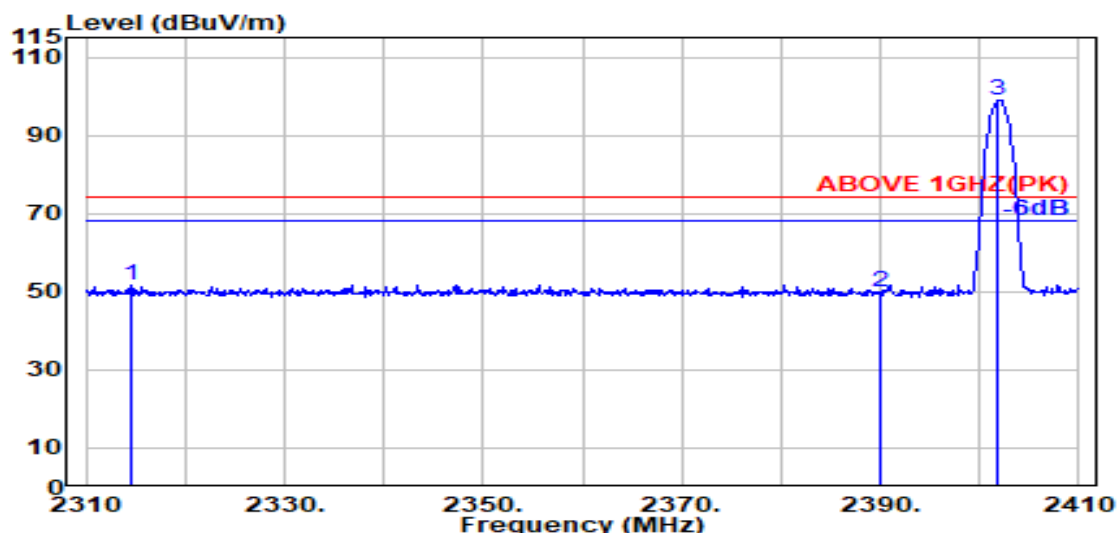
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A.2.1.3 Frequency Above 1 GHz to 10th harmonics

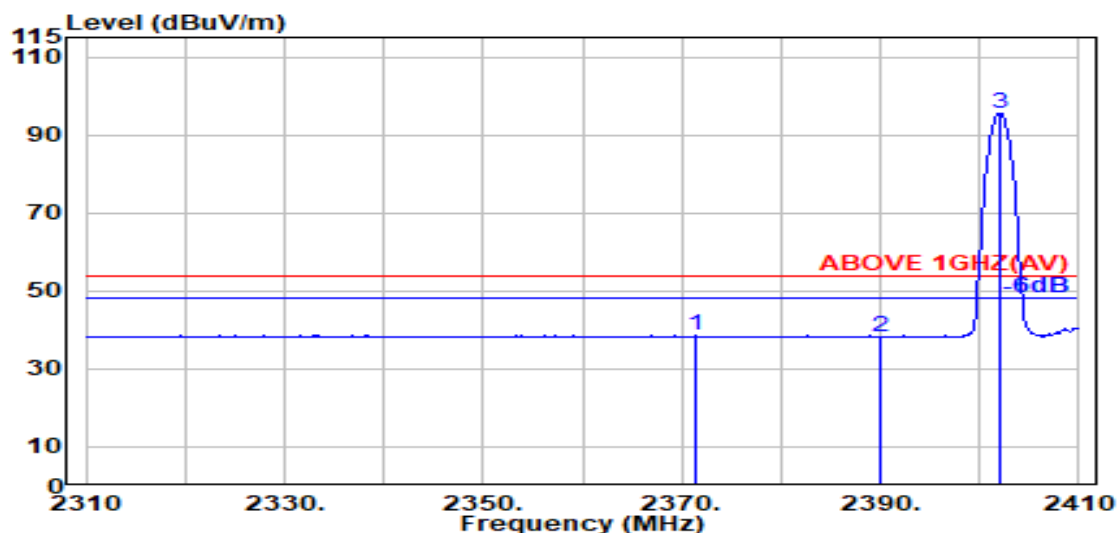
Band Edge:

Mode	8-DPSK	Frequency	TX 2402MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2314.500	28.09	5.63	39.88	57.98	51.81	74.00	22.19	Peak
2390.000	28.14	5.72	39.88	55.99	49.97	74.00	24.03	Peak
@ 2401.900	28.11	5.74	39.88	104.97	98.93	---	---	Peak



Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2371.500	28.21	5.70	39.88	44.53	38.57	54.00	15.43	Average
2390.000	28.14	5.72	39.88	44.17	38.16	54.00	15.84	Average
@ 2402.000	28.11	5.74	39.88	101.67	95.64	---	---	Average

Remark: The “@” means fundamental frequency, it is ignored in this section.

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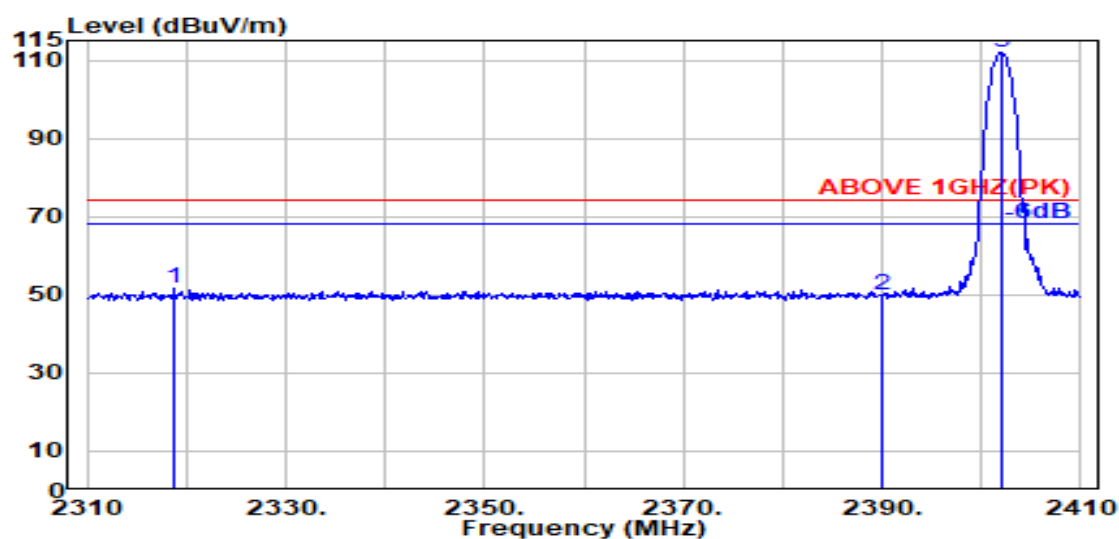
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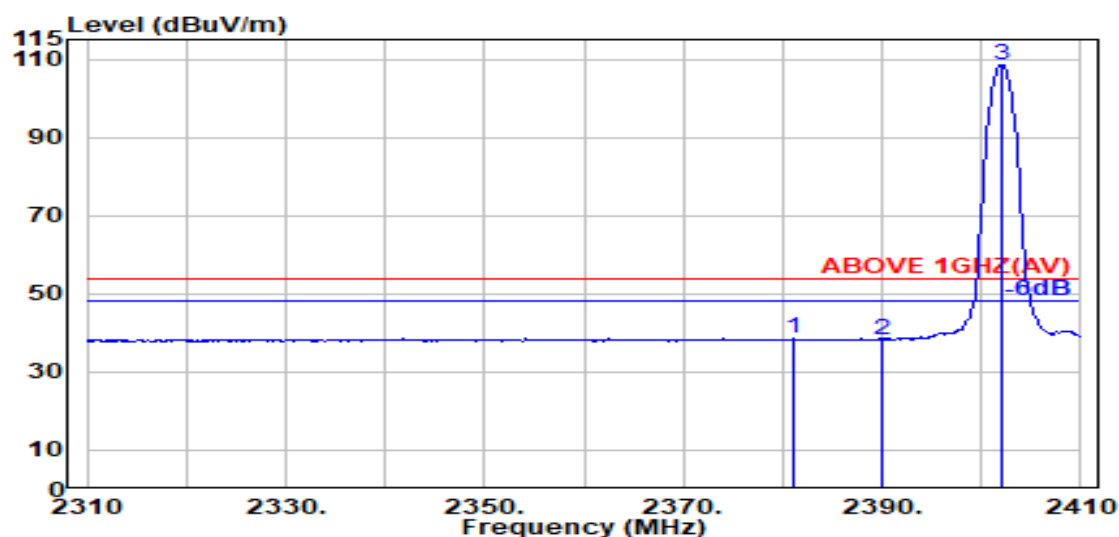
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Mode	8-DPSK	Frequency	TX 2402MHz
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Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2318.800	28.11	5.63	39.88	57.61	51.48	74.00	22.52	Peak
2390.000	28.14	5.72	39.88	56.13	50.11	74.00	23.89	Peak
@ 2402.100	28.11	5.74	39.88	118.03	112.00	---	---	Peak



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2381.000	28.18	5.71	39.88	44.50	38.50	54.00	15.50	Average
2390.000	28.14	5.72	39.88	44.31	38.29	54.00	15.71	Average
@ 2402.000	28.11	5.74	39.88	114.73	108.70	---	---	Average

Remark: The “@” means fundamental frequency, it is ignored in this section.

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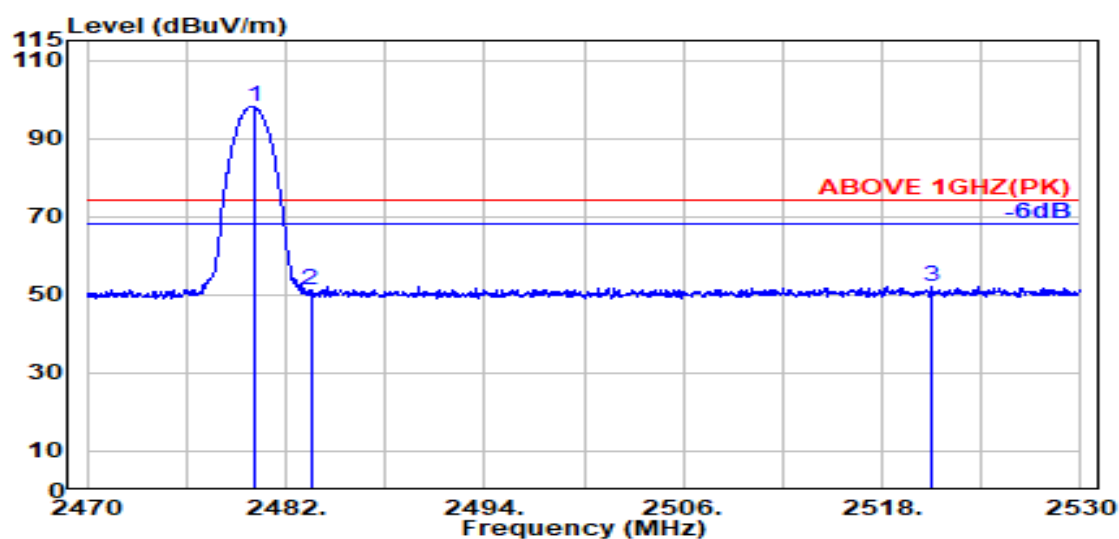
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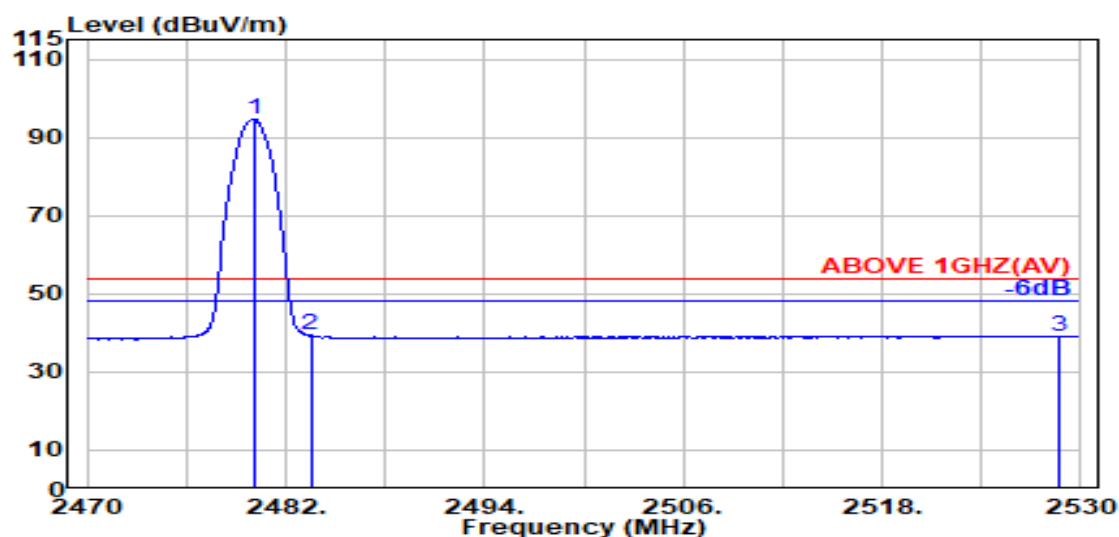
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Mode	8-DPSK	Frequency	TX 2480MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
@ 2480.050	28.36	5.83	39.87	103.75	98.07	---	---	Peak
2483.500	28.37	5.83	39.87	57.02	51.34	74.00	22.66	Peak
2521.000	28.53	5.88	39.88	57.56	52.09	74.00	21.91	Peak



Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
@ 2480.050	28.36	5.83	39.87	100.24	94.55	---	---	Average
2483.500	28.37	5.83	39.87	44.96	39.28	54.00	14.72	Average
2528.650	28.57	5.88	39.88	44.68	39.25	54.00	14.75	Average

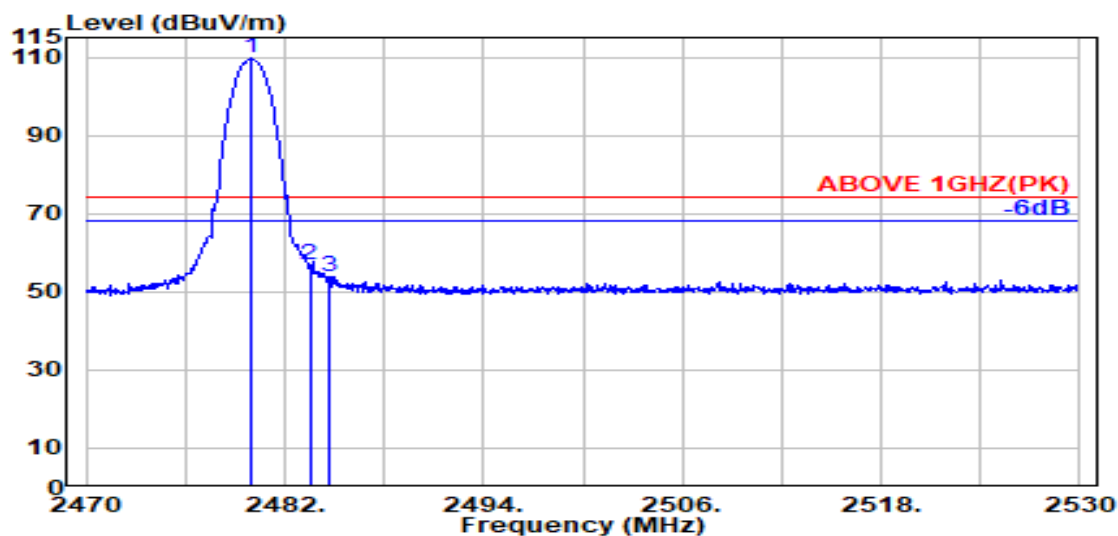
Remark: The “@” means fundamental frequency, it is ignored in this section.

File Number: C1M2409148

Report Number: EM-F240444

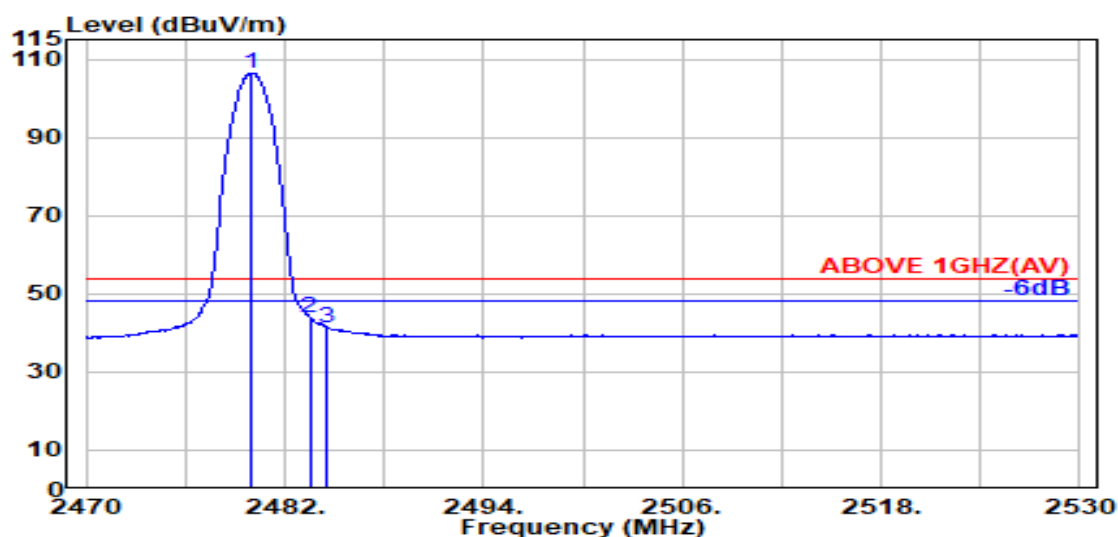
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Mode	8-DPSK	Frequency	TX 2480MHz
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Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
@ 2479.950	28.36	5.83	39.87	115.33	109.65	---	---	Peak
2483.500	28.37	5.83	39.87	62.46	56.79	74.00	17.21	Peak
2484.750	28.37	5.83	39.87	59.56	53.90	74.00	20.10	Peak



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
@ 2480.000	28.36	5.83	39.87	112.16	106.47	---	---	Average
2483.500	28.37	5.83	39.87	49.71	44.04	54.00	9.96	Average
2484.500	28.37	5.83	39.87	47.11	41.44	54.00	12.56	Average

Remark: The “@” means fundamental frequency, it is ignored in this section.

A.2.2 Emissions outside the frequency band:

The emissions (up to 25GHz) not reported for there is no emission be found.

Mode	BT (8DPSK)	Frequency	TX 2402MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Reading level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4804.000	32.92	8.13	39.30	41.28	43.02	54.00	10.98	Peak
7206.000	36.11	10.03	39.40	37.92	44.65	54.00	9.35	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Reading level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4804.000	32.92	8.13	39.30	41.19	42.93	54.00	11.07	Peak
7206.000	36.11	10.03	39.40	37.53	44.27	54.00	9.73	Peak

Mode	BT (8DPSK)	Frequency	TX 2441MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Reading level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4882.000	33.16	8.16	39.26	40.00	42.06	54.00	11.94	Peak
7323.000	36.40	10.09	39.44	37.53	44.59	54.00	9.41	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Reading level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4882.000	33.16	8.16	39.26	40.03	42.09	54.00	11.91	Peak
7323.000	36.40	10.09	39.44	36.62	43.68	54.00	10.32	Peak

Mode	BT (8DPSK)	Frequency	TX 2480MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Reading level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4960.000	33.24	8.20	39.23	41.23	43.44	54.00	10.56	Peak
7440.000	36.38	10.15	39.46	37.04	44.11	54.00	9.89	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Reading level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4960.000	33.24	8.20	39.23	40.63	42.84	54.00	11.16	Peak
7440.000	36.38	10.15	39.46	37.24	44.31	54.00	9.69	Peak

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A.2.3 Emissions in Non-restricted Frequency Bands:

All emission levels below the FCC 15.209(a)/RSS-Gen Section 8.9 table 4 general radiated emissions limits is not required.

A.3 20dB BANDWIDTH

Test Date	2024/10/05	Temp./Hum.	26°C /61%
Cable Loss	0.50 dB	Tested By	Harry Huang
Test Voltage	AC 120V 60Hz (Via AC Adapter)		

A.3.1 20dB Bandwidth Result

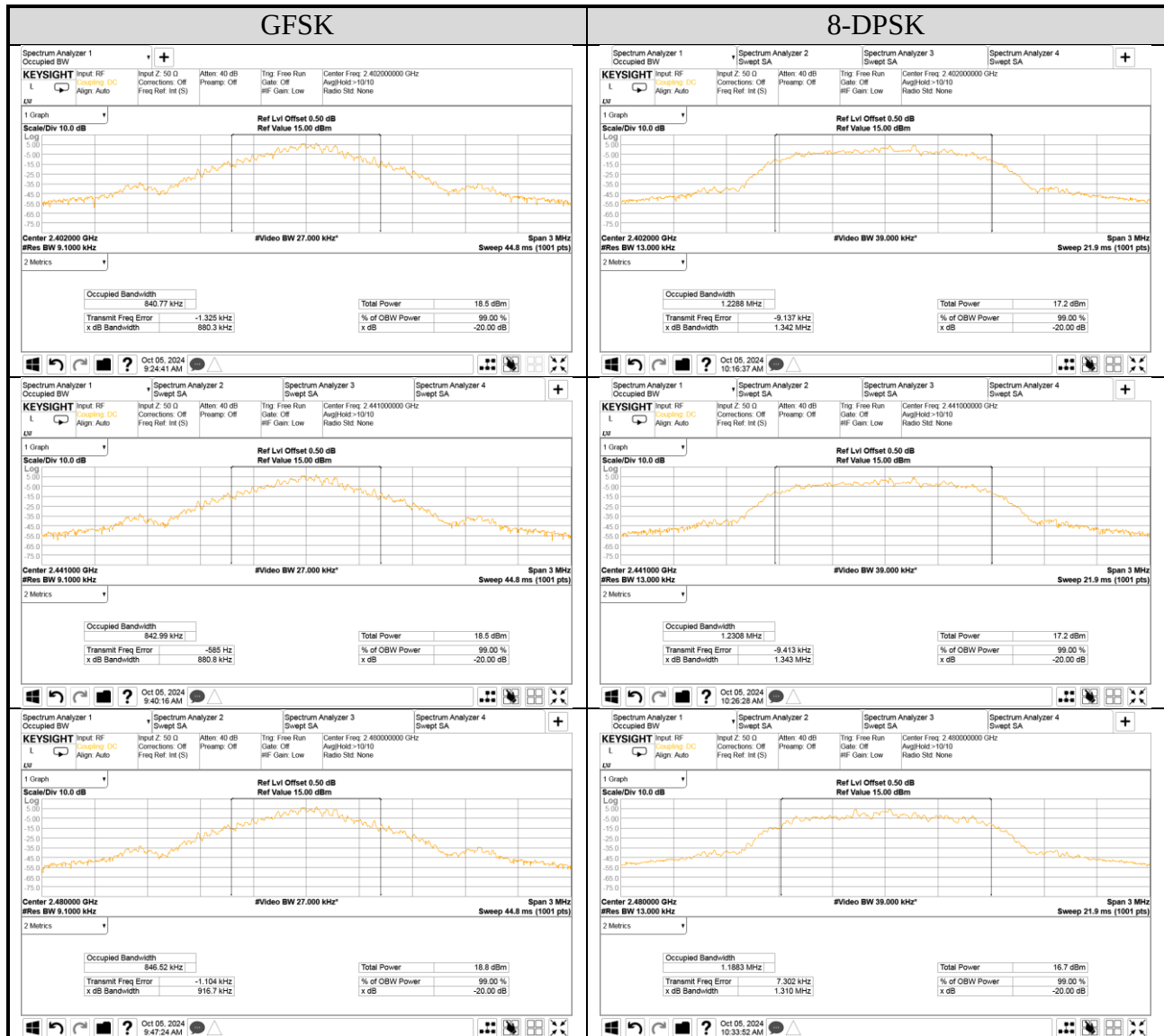
Mode	Centre Frequency (MHz)	20dB Bandwidth (MHz)	99%Occupied Bandwidth (MHz) (Reference only)	2/3 (20dB Bandwidth)
GFSK	2402	0.8803	0.84077	0.587
	2441	0.8808	0.84299	0.587
	2480	0.9167	0.84652	0.611
8-DPSK	2402	1.342	1.2288	0.895
	2441	1.343	1.2308	0.895
	2480	1.310	1.1883	0.873

Remark: The maximum two-thirds of the 20dB bandwidth is the limit for carrier frequency separation presented.

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A.3.2 Measurement Plots

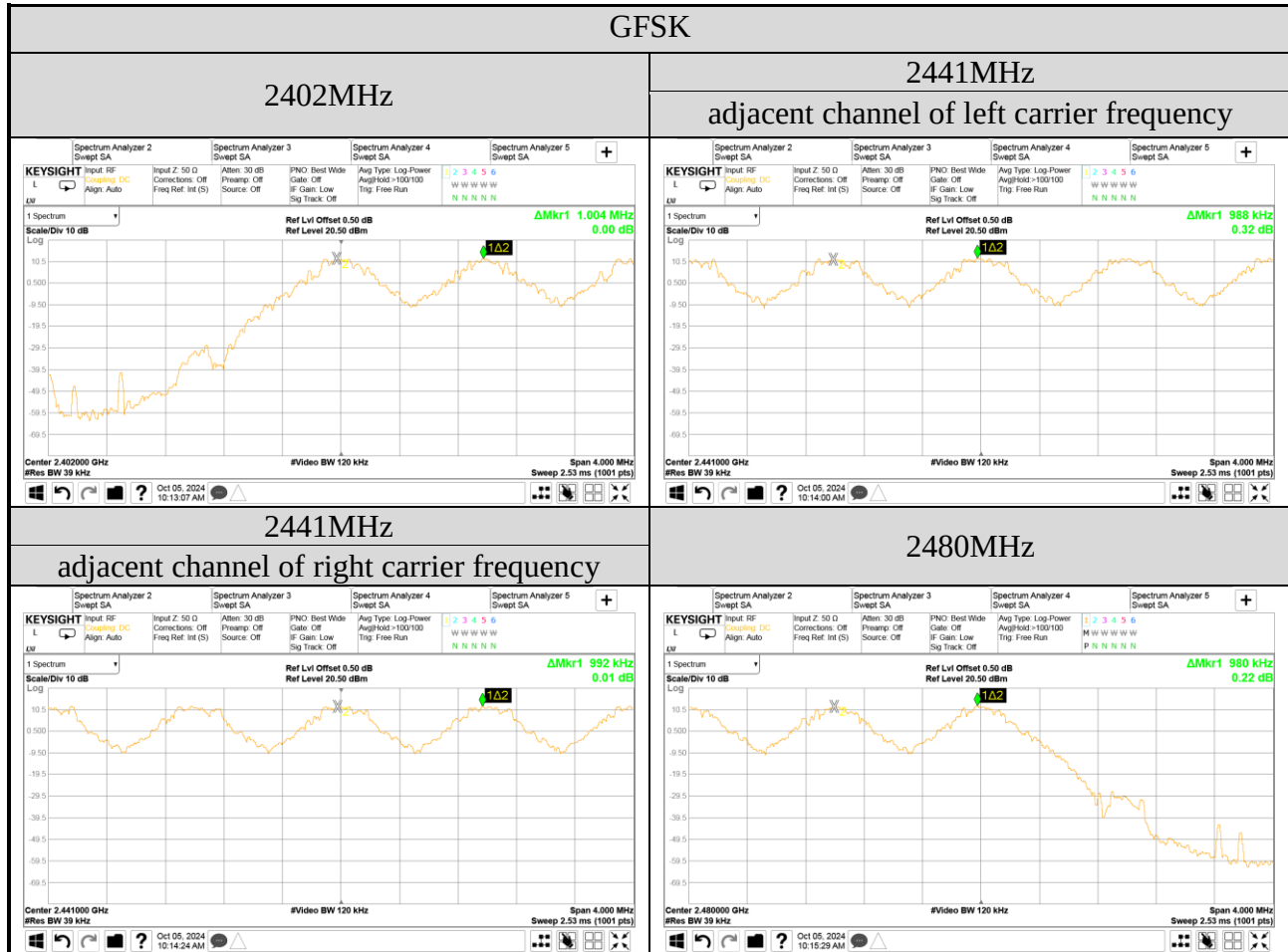


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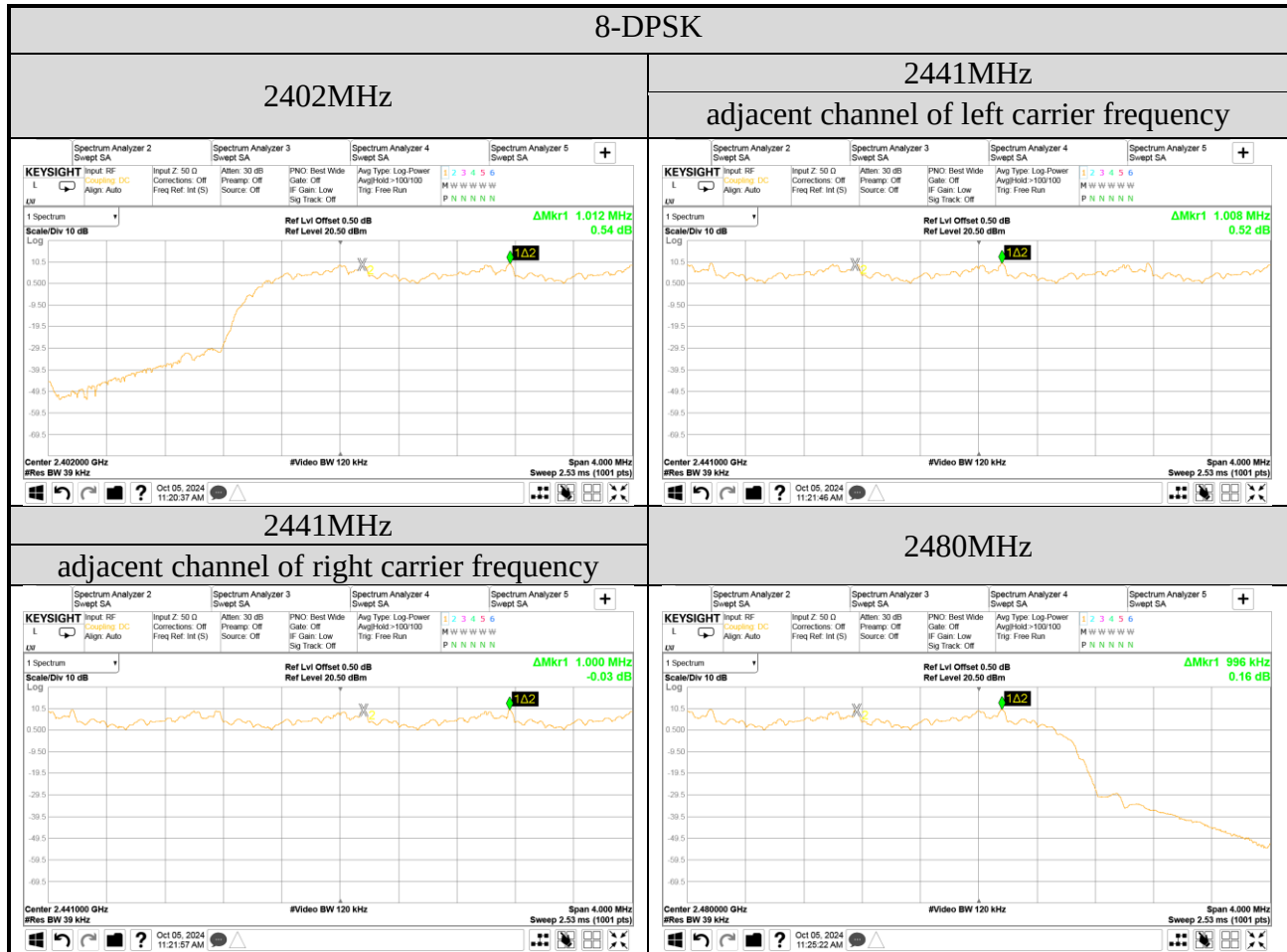
A.4 CARRIER FREQUENCY SEPARATION

Test Date	2024/10/05	Temp./Hum.	26°C/61%
Cable Loss	0.50 dB	Tested By	Harry Huang
Test Voltage	AC 120V 60Hz (Via AC Adapter)		



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A.5 TIME OF OCCUPANCY

Test Date	2024/10/05	Temp./Hum.	26°C/61%
Cable Loss	0.50 dB	Tested By	Harry Huang
Test Voltage	AC 120V 60Hz (Via AC Adapter)		

A.5.1 Time of Occupancy

Mode	Centre Frequency (MHz)	Mode	Each second appearance transmission	Time of Occupancy (ms)	Maximum accumulated Time of Occupancy (ms)	Limit (ms)
GFSK	2402	DH1	10	0.375	118.500	<400
		DH3	5	1.630	257.540	<400
		DH5	3	2.880	273.024	<400

Observation Period:

79 channels* **0.4** seconds= **31.6** seconds

DH1 Mode

For each second of **10** transmission appearance,the longest time of occupancy is
10 transmission* **31.6** seconds* **0.375** ms= **118.500** ms (<400ms)

DH3 Mode

For each second of **5** transmission appearance,the longest time of occupancy is
5 transmission* **31.6** seconds* **1.630** ms= **257.540** ms (<400ms)

DH5 Mode

For each second of **3** transmission appearance,the longest time of occupancy is
3 transmission* **31.6** seconds* **2.880** ms= **273.024** ms (<400ms)

Mode	Centre Frequency (MHz)	Mode	Each second appearance transmission	Time of Occupancy (ms)	Maximum accumulated Time of Occupancy (ms)	Limit (ms)
GFSK	2441	DH1	10	0.375	118.500	<400
		DH3	5	1.630	257.540	<400
		DH5	3	2.880	273.024	<400

Observation Period:

79 channels* **0.4** seconds= **31.6** seconds

DH1 Mode

For each second of **10** transmission appearance,the longest time of occupancy is
10 transmission* **31.6** seconds* **0.375** ms= **118.500** ms (<400ms)

DH3 Mode

For each second of **5** transmission appearance,the longest time of occupancy is
5 transmission* **31.6** seconds* **1.630** ms= **257.540** ms (<400ms)

DH5 Mode

For each second of **3** transmission appearance,the longest time of occupancy is
3 transmission* **31.6** seconds* **2.880** ms= **273.024** ms (<400ms)

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Mode	Centre Frequency (MHz)	Mode	Each second appearance transmission	Time of Occupancy (ms)	Maximum accumulated Time of Occupancy (ms)	Limit (ms)
GFSK	2480	DH1	10	0.375	118.500	<400
		DH3	5	1.630	257.540	<400
		DH5	3	2.880	273.024	<400

Observation Period:

79 channels * 0.4 seconds = 31.6 seconds

DH1 Mode

For each second of 10 transmission appearance, the longest time of occupancy is
10 transmission * 31.6 seconds * 0.375 ms = 118.500 ms (<400ms)

DH3 Mode

For each second of 5 transmission appearance, the longest time of occupancy is
5 transmission * 31.6 seconds * 1.630 ms = 257.540 ms (<400ms)

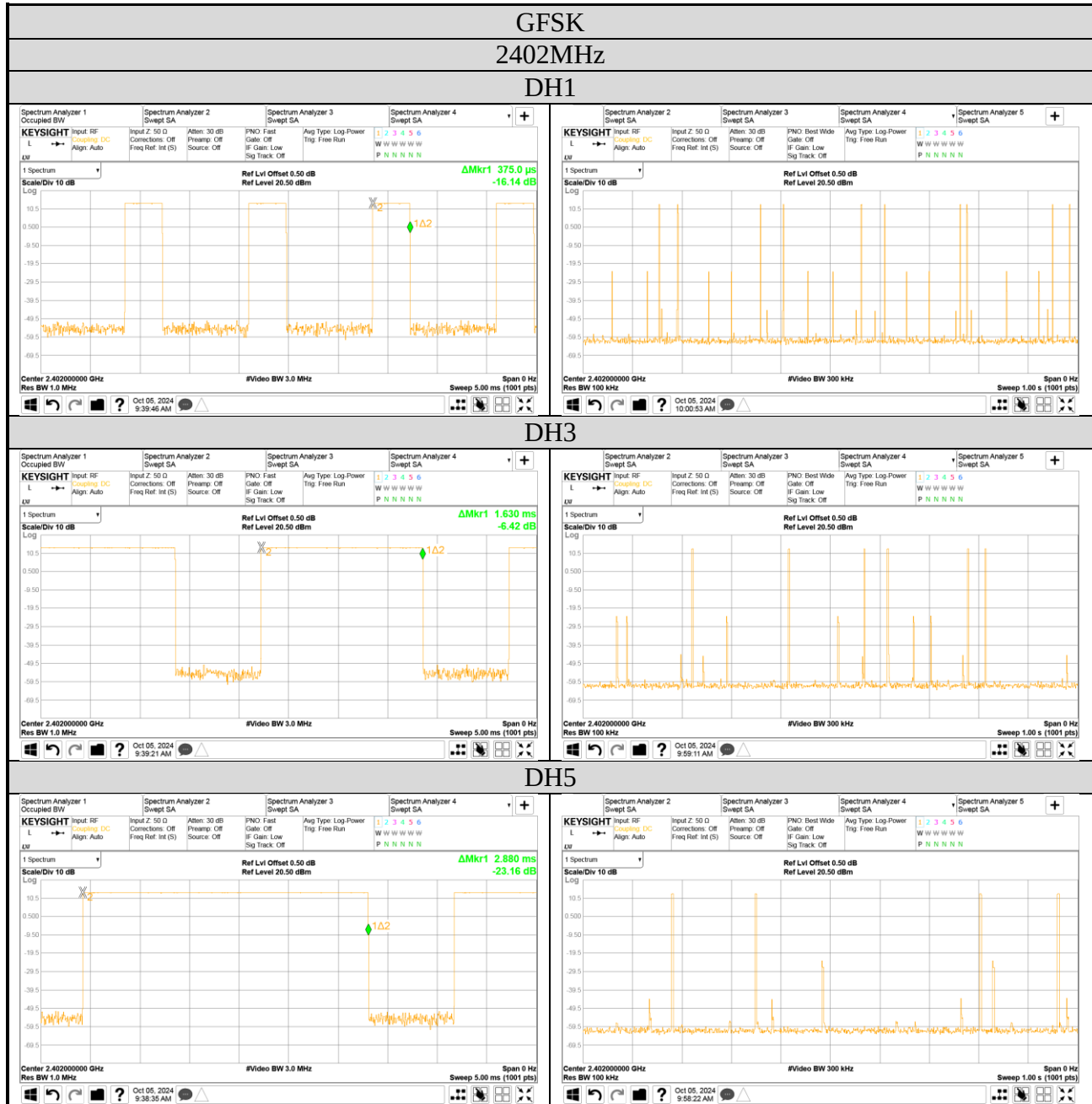
DH5 Mode

For each second of 3 transmission appearance, the longest time of occupancy is
3 transmission * 31.6 seconds * 2.880 ms = 273.024 ms (<400ms)

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● Measurement Plots



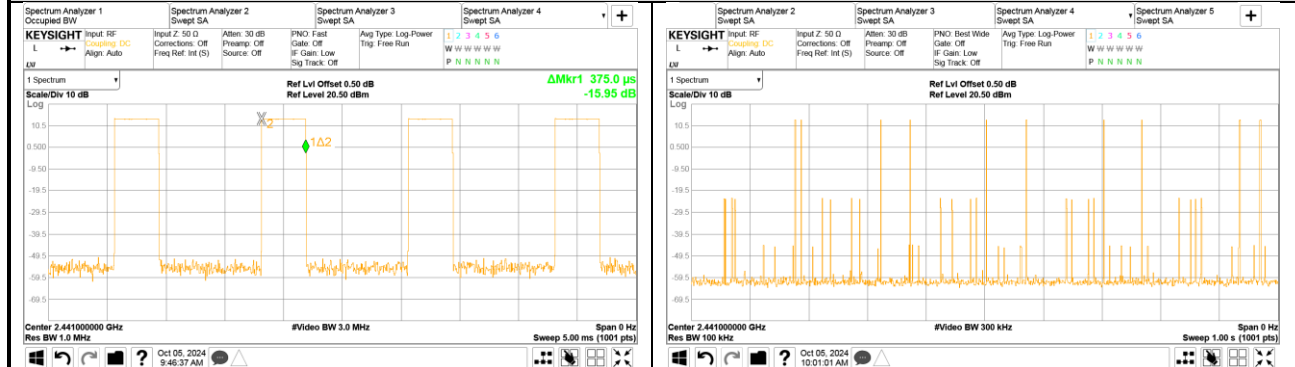
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GFSK

2441MHz

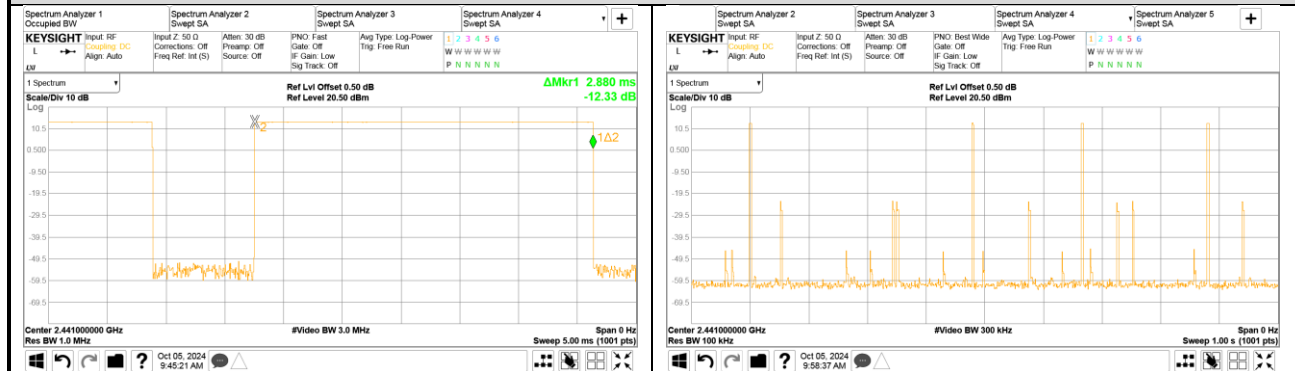
DH1



DH3

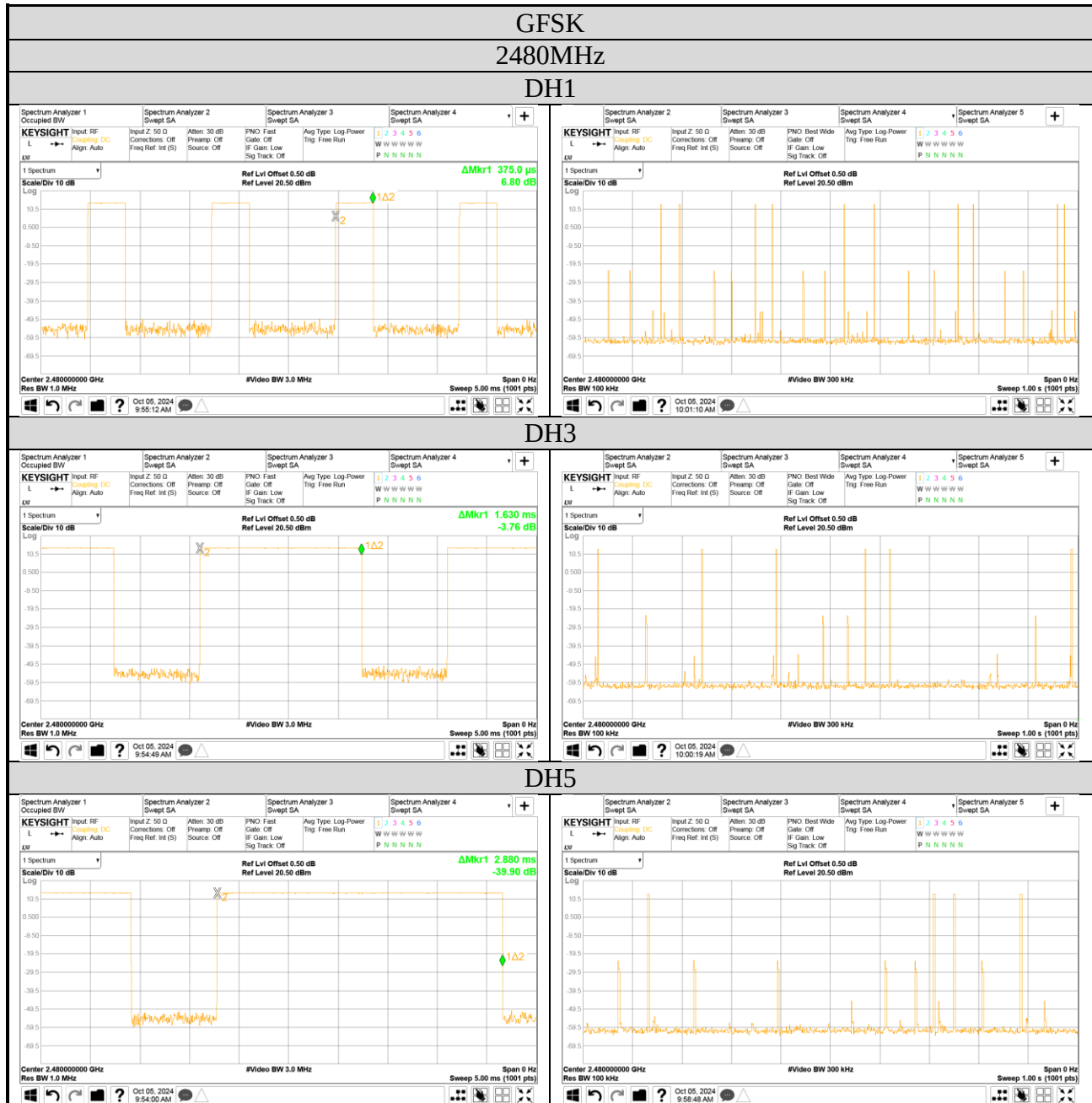


DH5



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Mode	Centre Frequency (MHz)	Mode	Each second appearance transmission	Time of Occupancy (ms)	Maximum accumulated Time of Occupancy (ms)	Limit (ms)
8-DPSK	2402	3DH1	10	0.380	120.080	<400
		3DH3	5	1.635	258.330	<400
		3DH5	3	2.885	273.498	<400

Observation Period:

79 channels* 0.4 seconds= 31.6 seconds

3DH1 Mode

For each second of 10 transmission appearance, the longest time of occupancy is
10 transmission* 31.6 seconds* 0.380 ms= 120.080 ms (<400ms)

3DH3 Mode

For each second of 5 transmission appearance, the longest time of occupancy is
5 transmission* 31.6 seconds* 1.635 ms= 258.330 ms (<400ms)

3DH5 Mode

For each second of 3 transmission appearance, the longest time of occupancy is
3 transmission* 31.6 seconds* 2.885 ms= 273.498 ms (<400ms)

Mode	Centre Frequency (MHz)	Mode	Each second appearance transmission	Time of Occupancy (ms)	Maximum accumulated Time of Occupancy (ms)	Limit (ms)
8-DPSK	2441	3DH1	10	0.380	120.080	<400
		3DH3	5	1.635	258.330	<400
		3DH5	3	2.885	273.498	<400

Observation Period:

79 channels* 0.4 seconds= 31.6 seconds

3DH1 Mode

For each second of 10 transmission appearance, the longest time of occupancy is
10 transmission* 31.6 seconds* 0.380 ms= 120.080 ms (<400ms)

3DH3 Mode

For each second of 5 transmission appearance, the longest time of occupancy is
5 transmission* 31.6 seconds* 1.635 ms= 258.330 ms (<400ms)

3DH5 Mode

For each second of 3 transmission appearance, the longest time of occupancy is
3 transmission* 31.6 seconds* 2.885 ms= 273.498 ms (<400ms)

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Mode	Centre Frequency (MHz)	Mode	Each second appearance transmission	Time of Occupancy (ms)	Maximum accumulated Time of Occupancy (ms)	Limit (ms)
8-DPSK	2480	3DH1	10	0.380	120.080	<400
		3DH3	5	1.630	257.540	<400
		3DH5	3	2.885	273.498	<400

Observation Period:

79 channels* **0.4** seconds= **31.6** seconds

3DH1 Mode

For each second of **10** transmission appearance, the longest time of occupancy is
10 transmission* **31.6** seconds* **0.380** ms = **120.080** ms (<400ms)

3DH3 Mode

For each second of **5** transmission appearance, the longest time of occupancy is
5 transmission* **31.6** seconds* **1.630** ms = **257.540** ms (<400ms)

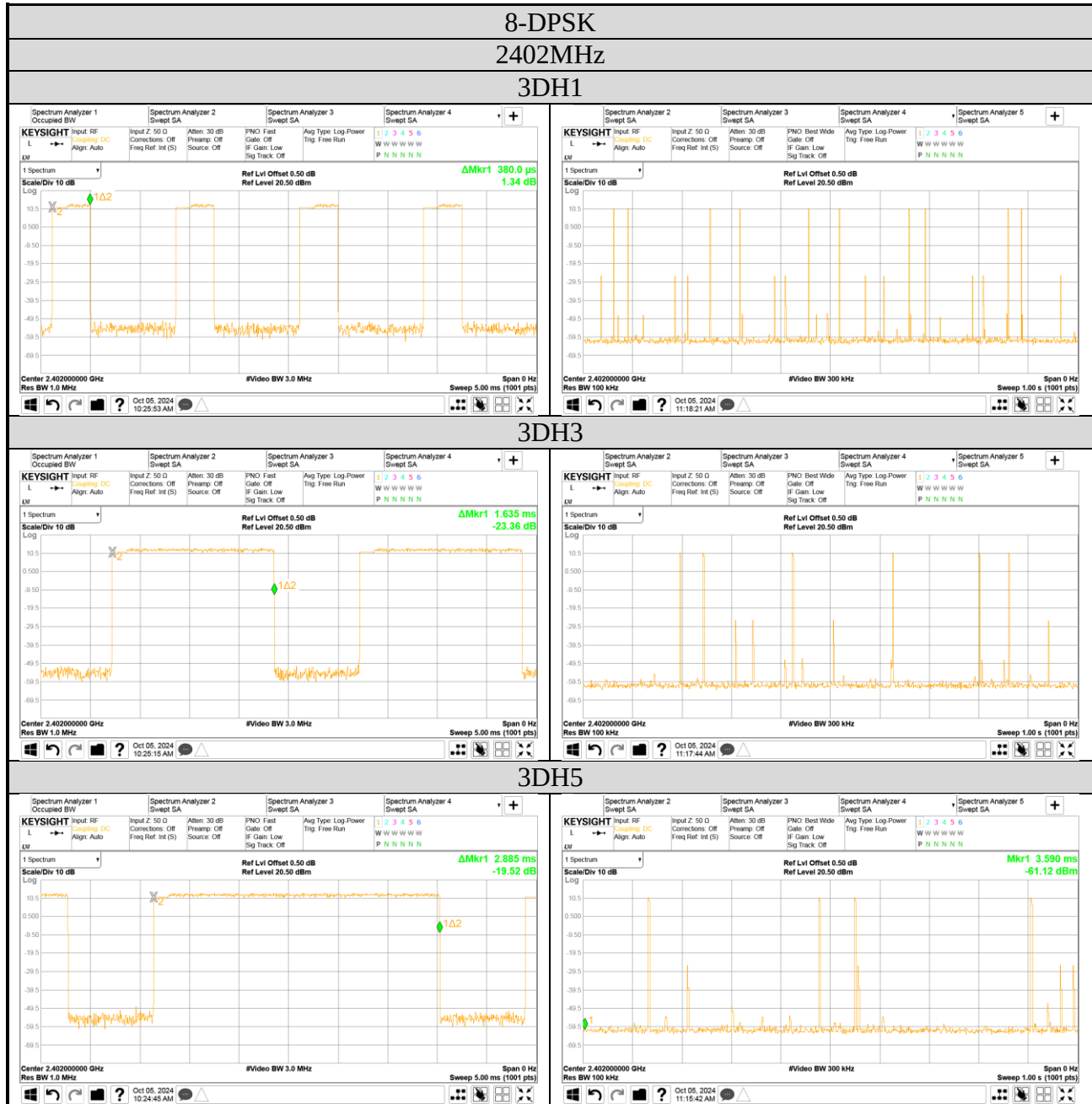
3DH5 Mode

For each second of **3** transmission appearance, the longest time of occupancy is
3 transmission* **31.6** seconds* **2.885** ms = **273.498** ms (<400ms)

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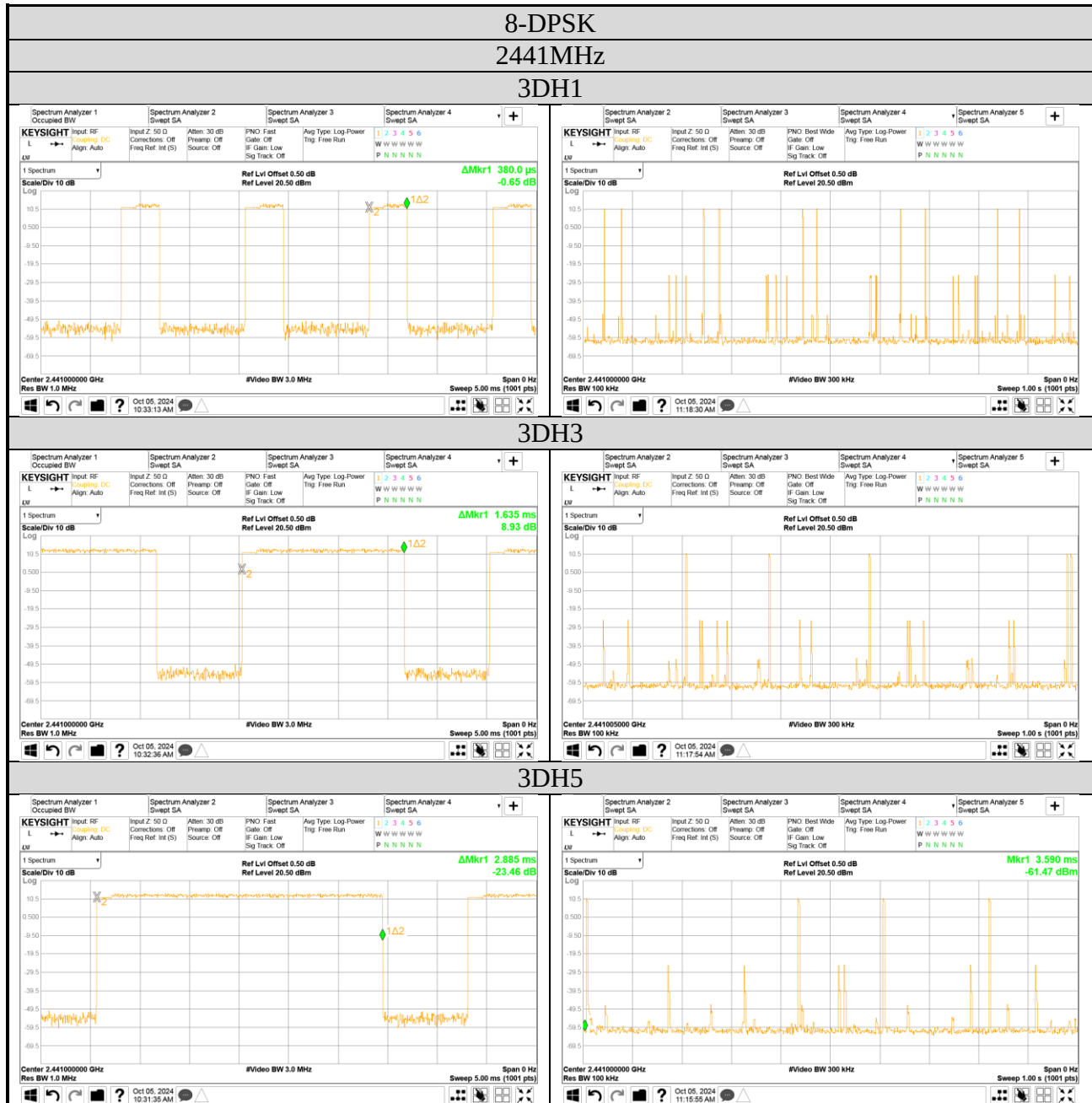
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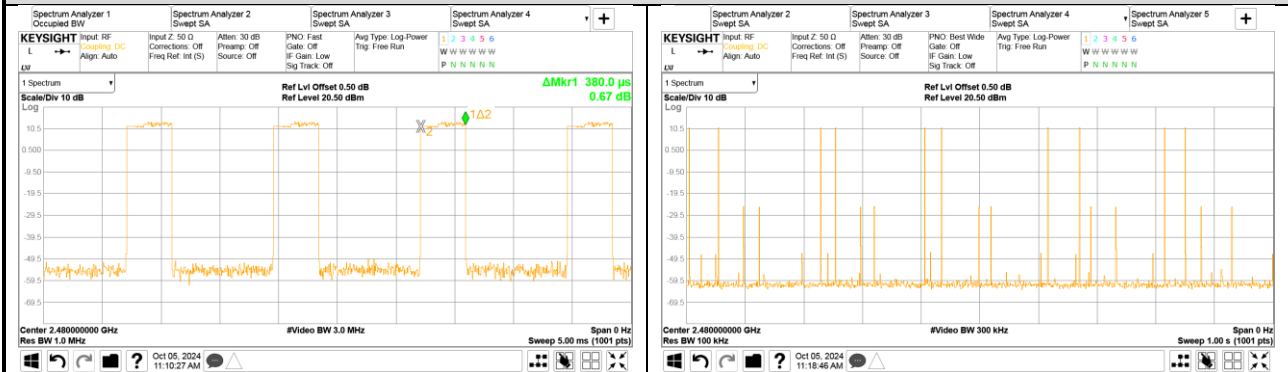
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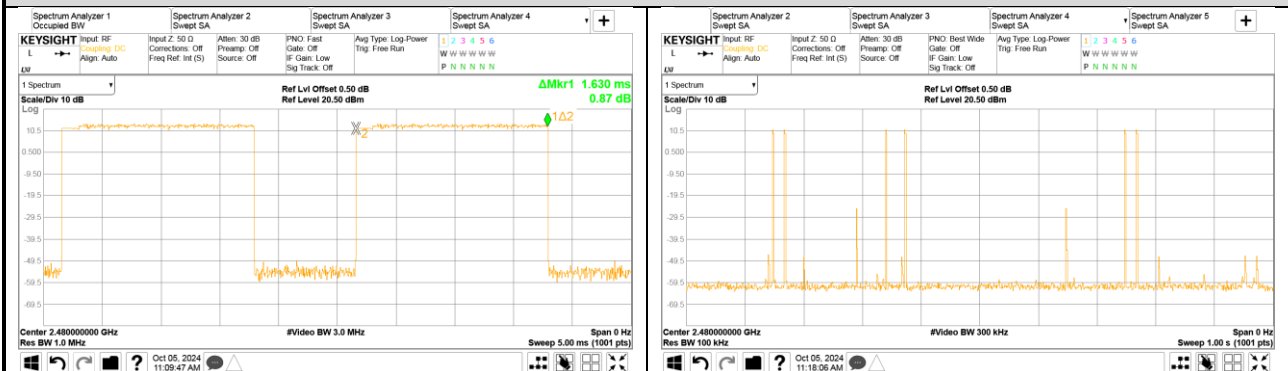
8-DPSK

2480MHz

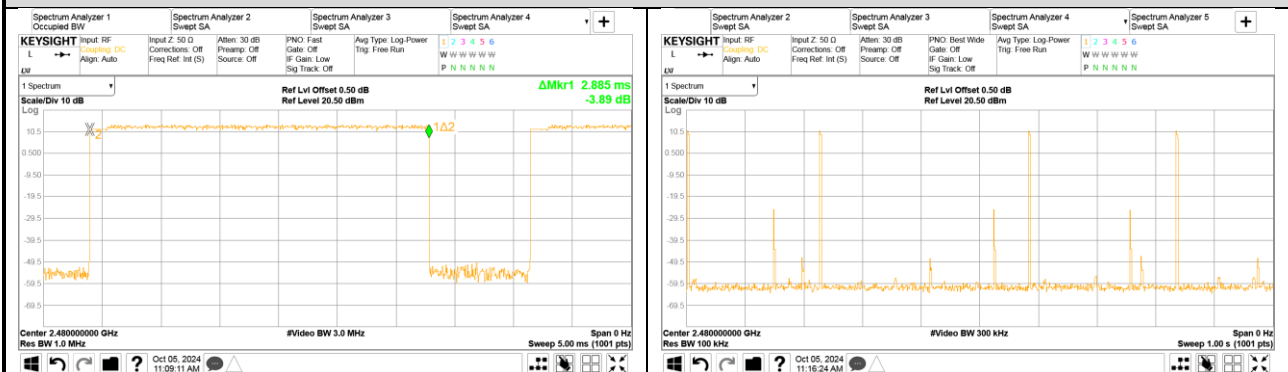
3DH1



3DH3



3DH5

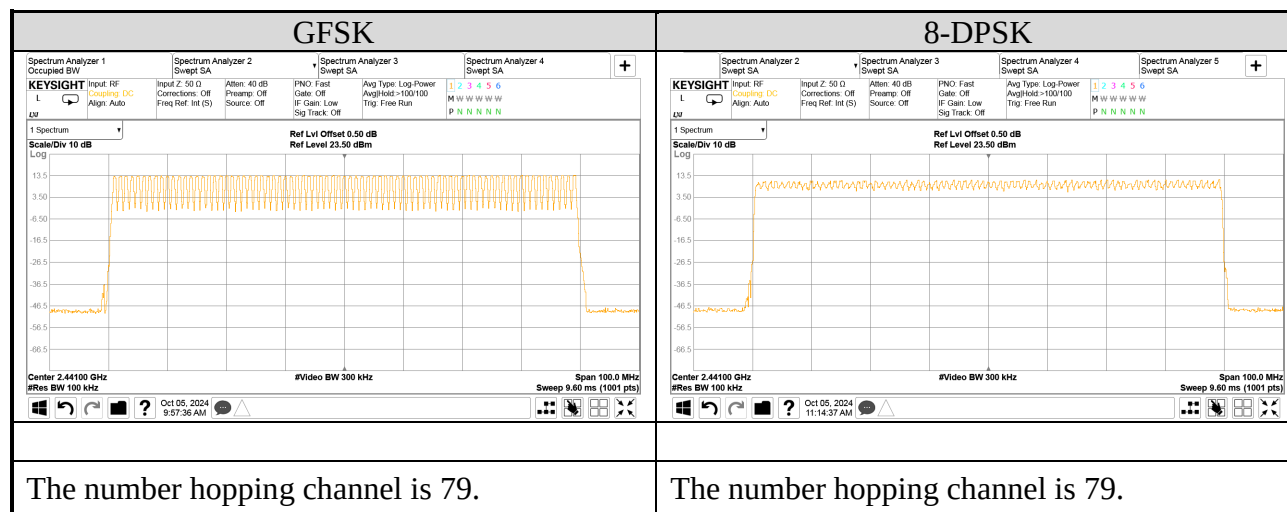


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A.6 NUMBER OF HOPPING CHANNELS

Test Date	2024/10/05	Temp./Hum.	26°C/61%
Cable Loss	0.50 dB	Tested By	Harry Huang
Test Voltage	AC 120V 60Hz (Via AC Adapter)		



A.7 MAXIMUM PEAK OUTPUT POWER

Test Date	2024/10/05	Temp./Hum.	26°C /61%
Cable Loss	0.50 dB	Tested By	Harry Huang
Test Voltage	AC 120V 60Hz (Via AC Adapter)		

A.7.1 Maximum Peak Output Power

Mode	Centre Frequency (MHz)	Maximum Peak Output Power		Limit
		dBm	W	
GFSK	2402	14.51	0.028	21dBm (0.125W)
	2441	14.51	0.028	
	2480	14.52	0.028	
8-DPSK	2402	14.54	0.028	
	2441	14.54	0.028	
	2480	14.55	0.029	

A.7.2 Average Output Power (Reporting only)

Mode	Centre Frequency (MHz)	Average Output Power (dBm)	Duty cycle factor (dB) 10log (1/x)	Maximum Average Output Power		Limit
				(dBm)	(W)	
GFSK	2402	13.11	1.12	13.11	0.020	21dBm (0.125W)
	2441	13.13	1.12	13.13	0.021	
	2480	13.11	1.12	13.11	0.020	
8-DPSK	2402	10.82	1.101	11.92	0.016	
	2441	10.82	1.101	11.92	0.016	
	2480	10.82	1.101	11.92	0.016	

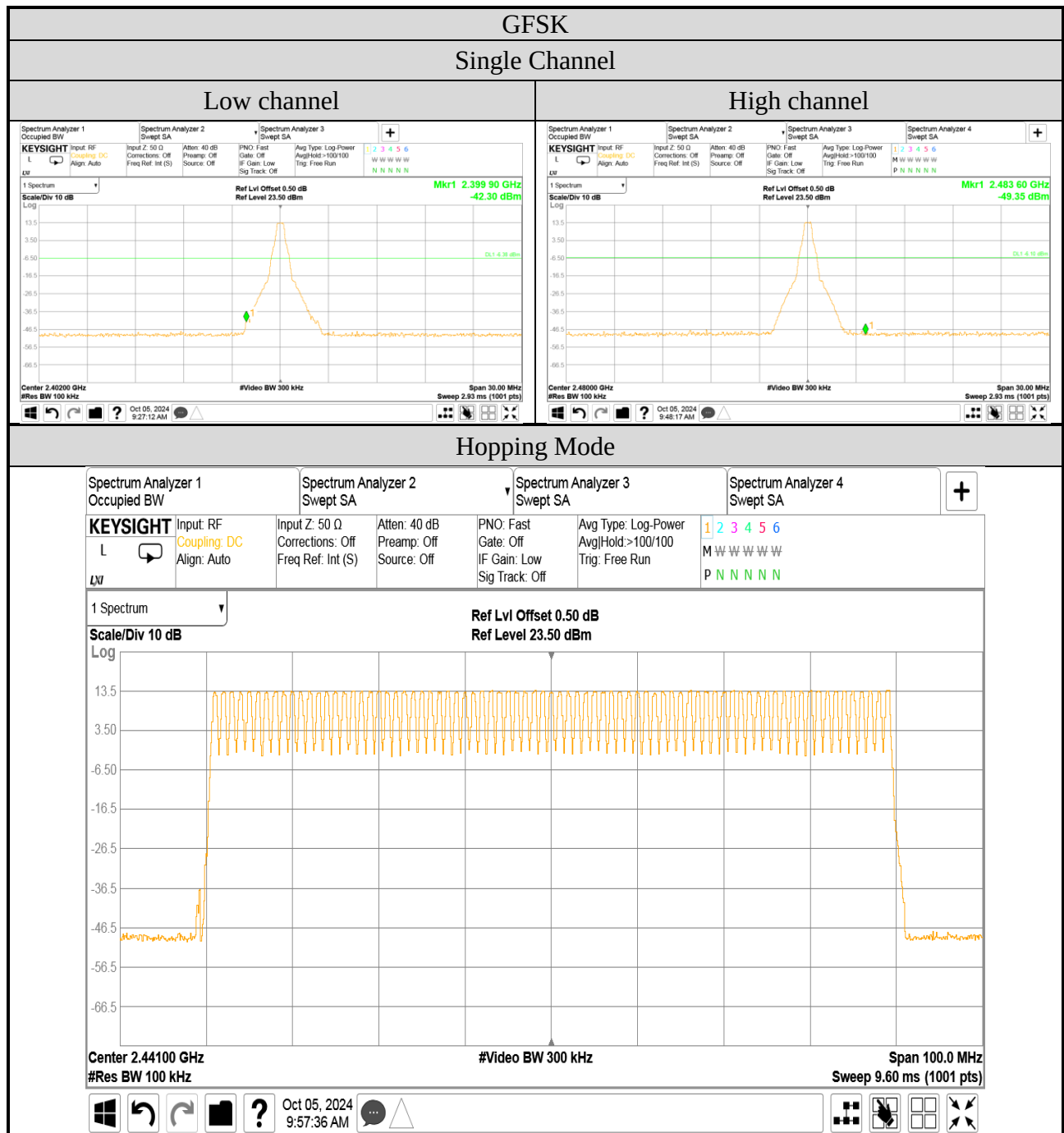
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A.8 EMISSION LIMITATIONS MEASUREMENT

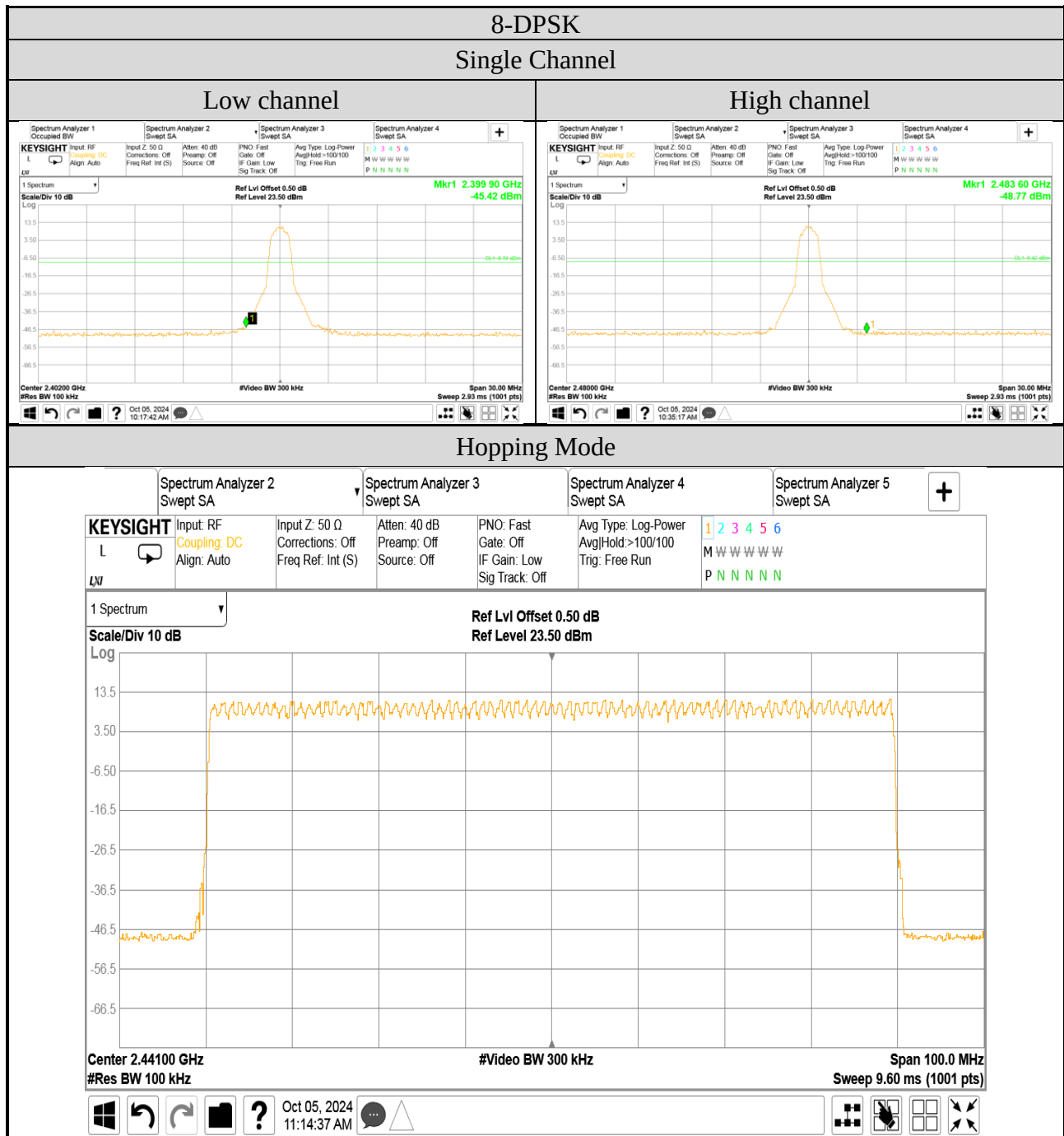
Test Date	2024/10/05	Temp./Hum.	26°C/61%
Cable Loss	0.50 dB	Tested By	Harry Huang
Test Voltage	AC 120V 60Hz (Via AC Adapter)		

A.8.1 Band Edge



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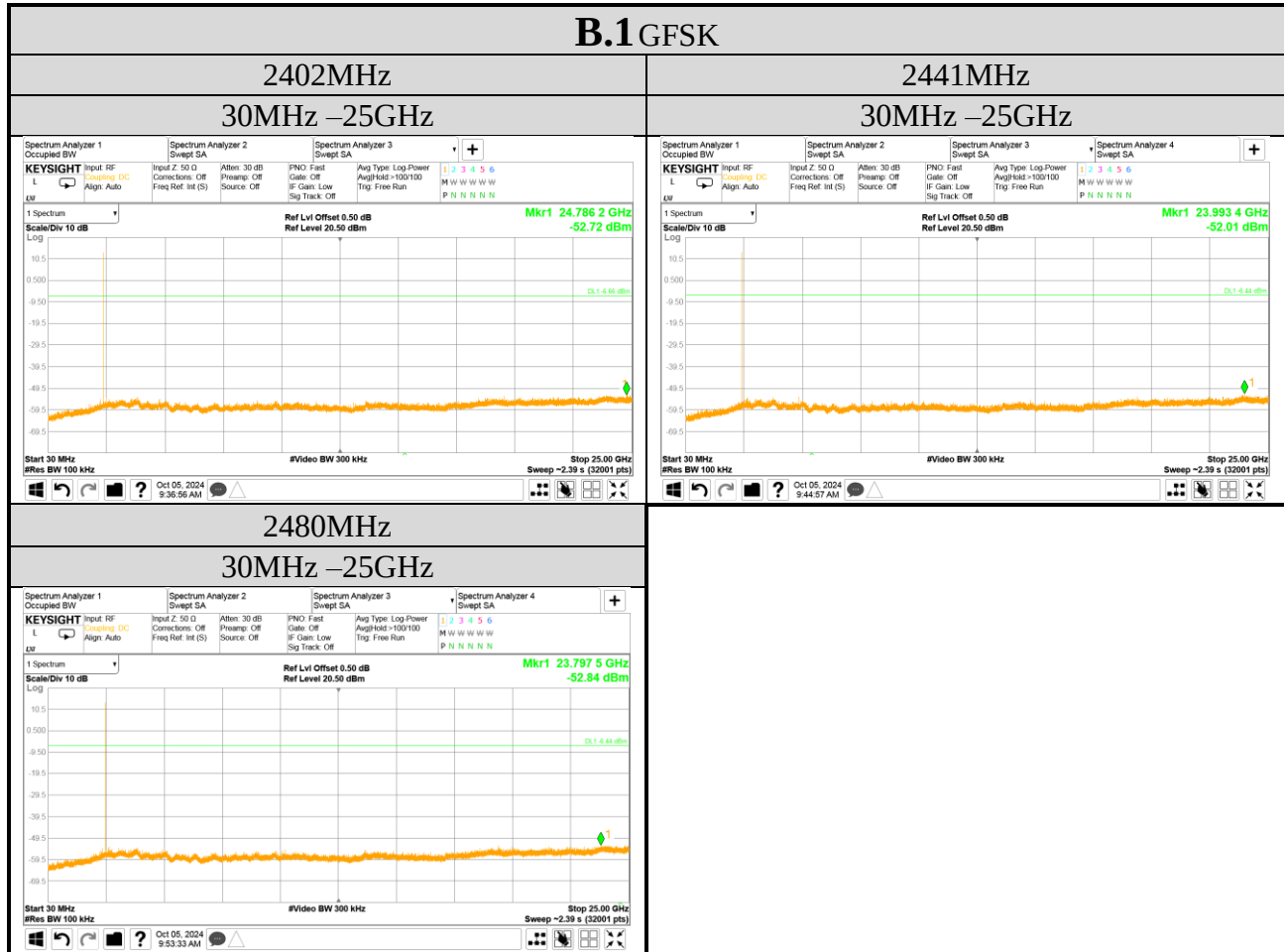
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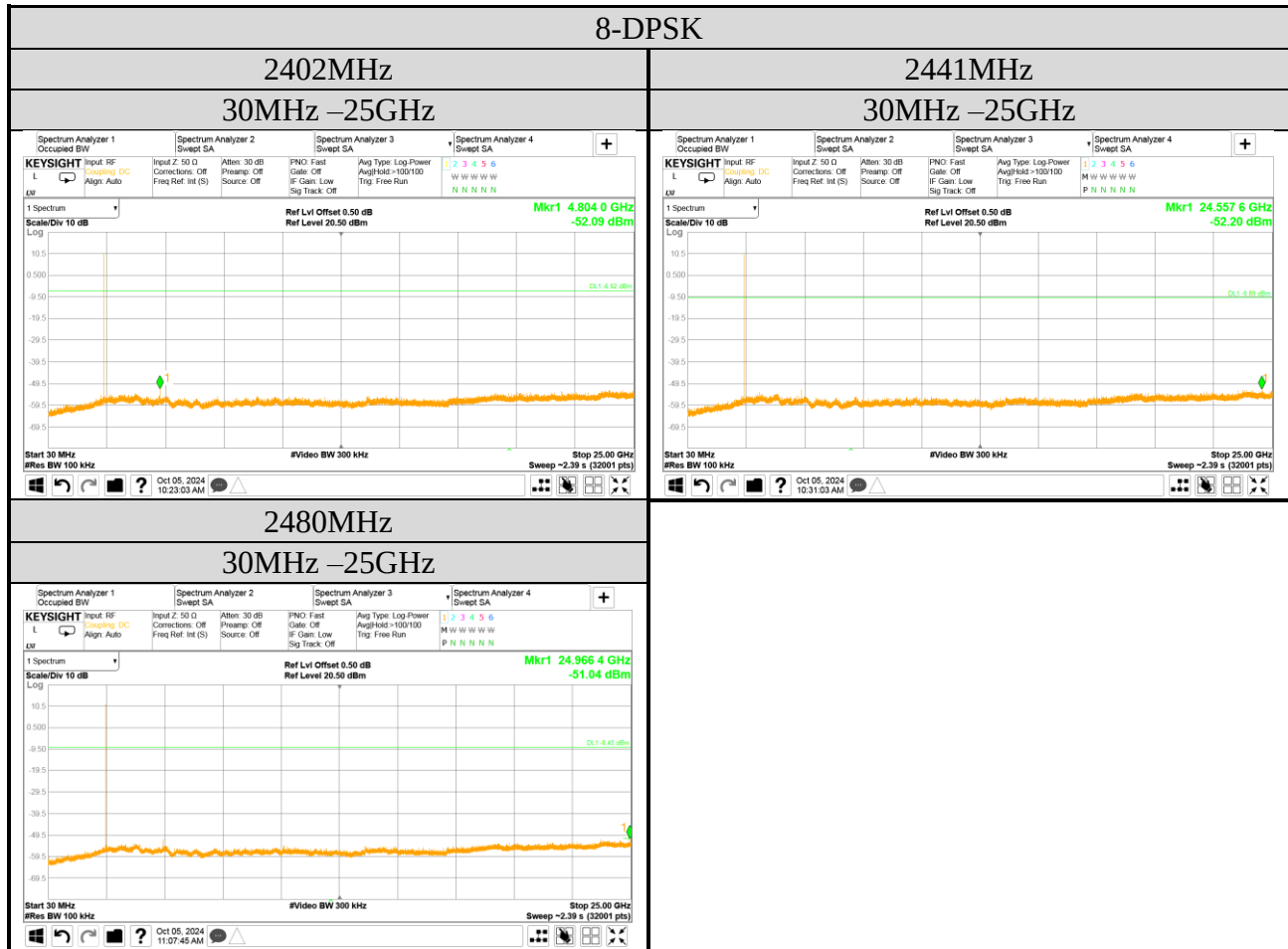
A.8.2 Spurious Emission



Note: All results have been included cable loss.

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Note: All results have been included cable loss.