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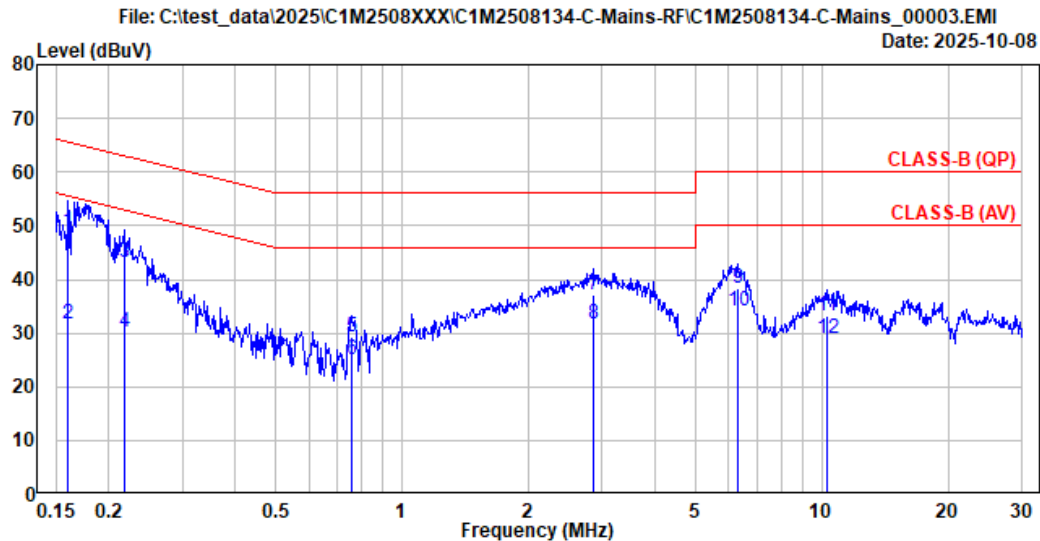
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A.1 CONDUCTED EMISSION

Test Date	2025/10/08	Temp./Hum.	25°C/52%
Test Voltage	AC 120V 60Hz (Via AC Adapter)	Tested By	Nick Du



Site No.	: No.8 Shielded Room	Data No.	: 3
Instrument 1	: Receiver ESR(774)		
Instrument 2	: ENV432 (567)(A) CE-08 ESH3-Z2 (354)		
Limit	: CLASS-B (QP)	Phase	: Neutral
Environment	: 25°C/52%	Test Rating	: 120Vac/60Hz
EUT Model	: 16Z95U	Engineer	: Nick Du
Test Mode	: Operating		

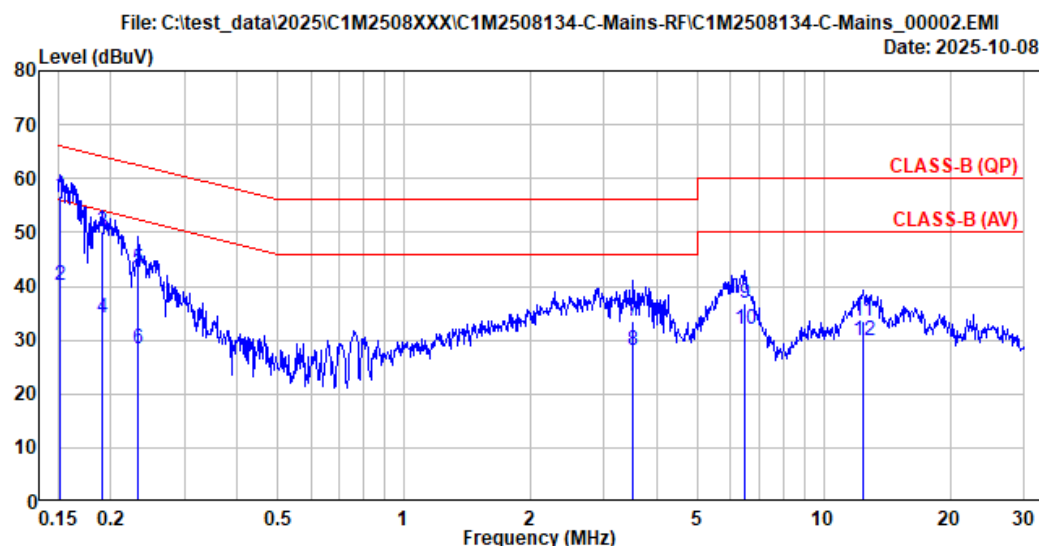
	Freq. (MHz)	AMN Factor (dB)	Cable Loss (dB)	Pulse Att. (dB)	Reading (dBμV)	Emission Level (dBμV)	Limits (dBμV)	Margin (dB)	Remark
1	0.160	10.32	0.03	9.85	28.80	49.00	65.46	16.46	QP
2	0.160	10.32	0.03	9.85	11.48	31.68	55.46	23.78	Average
3	0.218	10.31	0.03	9.85	22.86	43.05	62.90	19.85	QP
4	0.218	10.31	0.03	9.85	9.88	30.07	52.90	22.83	Average
5	0.762	10.31	0.04	9.85	9.09	29.29	56.00	26.71	QP
6	0.762	10.31	0.04	9.85	4.86	25.06	46.00	20.94	Average
7	2.854	10.36	0.07	9.86	16.83	37.12	56.00	18.88	QP
8	2.854	10.36	0.07	9.86	11.47	31.76	46.00	14.24	Average
9	6.335	10.50	0.10	9.87	17.75	38.22	60.00	21.78	QP
10	6.335	10.50	0.10	9.87	13.55	34.02	50.00	15.98	Average
11	10.274	10.63	0.14	9.89	12.42	33.08	60.00	26.92	QP
12	10.274	10.63	0.14	9.89	8.30	28.96	50.00	21.04	Average

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

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Test Date	2025/10/08	Temp./Hum.	25°C/52%
Test Voltage	AC 120V 60Hz (Via AC Adapter)	Tested By	Nick Du



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	: Line
Environment	: 25°C/52%	Test Rating	: 120Vac/60Hz
EUT Model	: 16Z95U	Engineer	: Nick Du
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	10.34	0.03	9.85	36.41	56.63	65.92	9.29	QP
2	0.152	10.34	0.03	9.85	20.07	40.29	55.92	15.63	Average
3	0.191	10.33	0.03	9.85	29.77	49.98	64.01	14.03	QP
4	0.191	10.33	0.03	9.85	13.84	34.05	54.01	19.96	Average
5	0.233	10.33	0.03	9.85	22.85	43.06	62.36	19.30	QP
6	0.233	10.33	0.03	9.85	8.22	28.43	52.36	23.93	Average
7	3.518	10.36	0.08	9.86	13.23	33.53	56.00	22.47	QP
8	3.518	10.36	0.08	9.86	7.81	28.11	46.00	17.89	Average
9	6.495	10.45	0.11	9.87	16.40	36.83	60.00	23.17	QP
10	6.495	10.45	0.11	9.87	11.56	31.99	50.00	18.01	Average
11	12.416	10.57	0.15	9.90	13.01	33.63	60.00	26.37	QP
12	12.416	10.57	0.15	9.90	9.17	29.79	50.00	20.21	Average

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

A.2 RADIATED EMISSION

Test Date	2025/09/22~10/03	Temp./Hum.	23~24°C/56~57%
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	GFSK	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
32.500	22.55	1.45	26.47	33.64	31.17	40.00	8.83	Peak
106.500	17.06	2.66	26.23	34.94	28.44	43.50	15.06	Peak
250.000	18.46	4.18	25.69	41.44	38.39	46.00	7.61	Peak
406.500	21.53	6.12	26.46	32.77	33.96	46.00	12.04	Peak
612.000	24.31	7.20	27.38	32.99	37.11	46.00	8.89	Peak
981.500	26.99	9.28	26.75	27.04	36.55	54.00	17.45	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
31.500	22.99	1.43	26.47	40.21	38.17	40.00	1.83	Peak
106.500	17.06	2.66	26.23	43.17	36.66	43.50	6.84	Peak
250.000	18.46	4.18	25.69	36.29	33.24	46.00	12.76	Peak
419.000	21.78	6.24	26.55	33.77	35.25	46.00	10.75	Peak
522.000	23.40	6.98	27.15	35.72	38.96	46.00	7.04	Peak
988.000	27.03	9.32	26.73	27.51	37.12	54.00	16.88	Peak

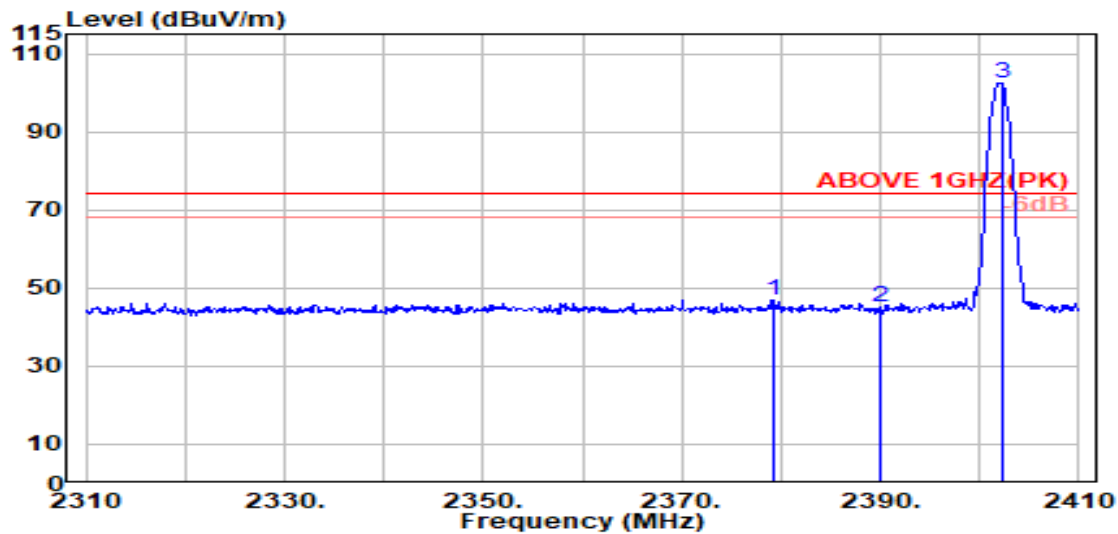
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A.2.1.3 Frequency Above 1 GHz to 10th harmonics

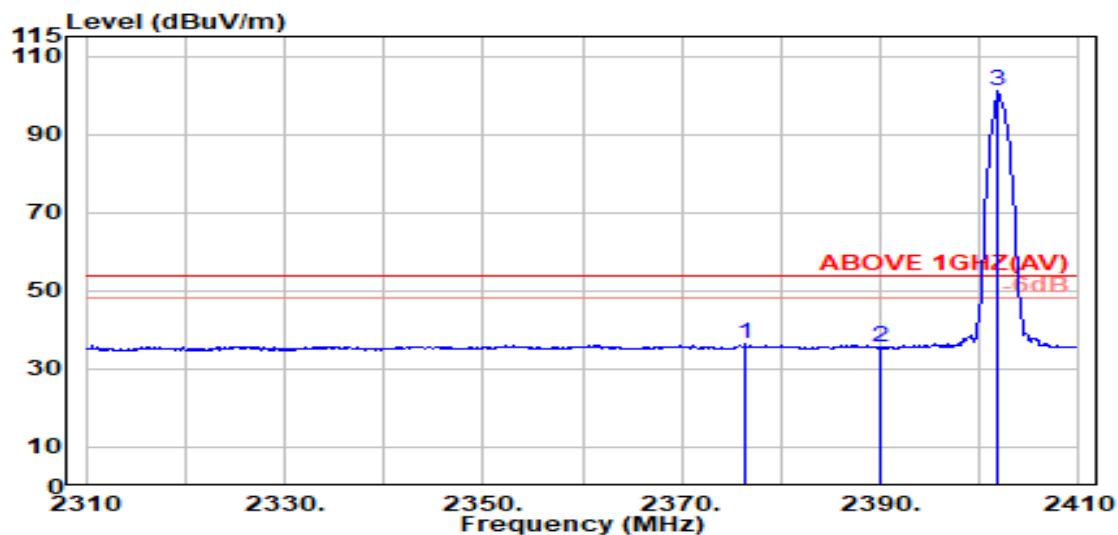
Band Edge:

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
2379.200	28.20	5.69	39.92	53.03	47.00	74.00	27.00	Peak
2390.000	28.20	5.70	39.92	50.97	44.96	74.00	29.04	Peak
@ 2402.200	28.20	5.72	39.92	108.41	102.41	---	---	Peak



Antenna at Horizontal Polarization

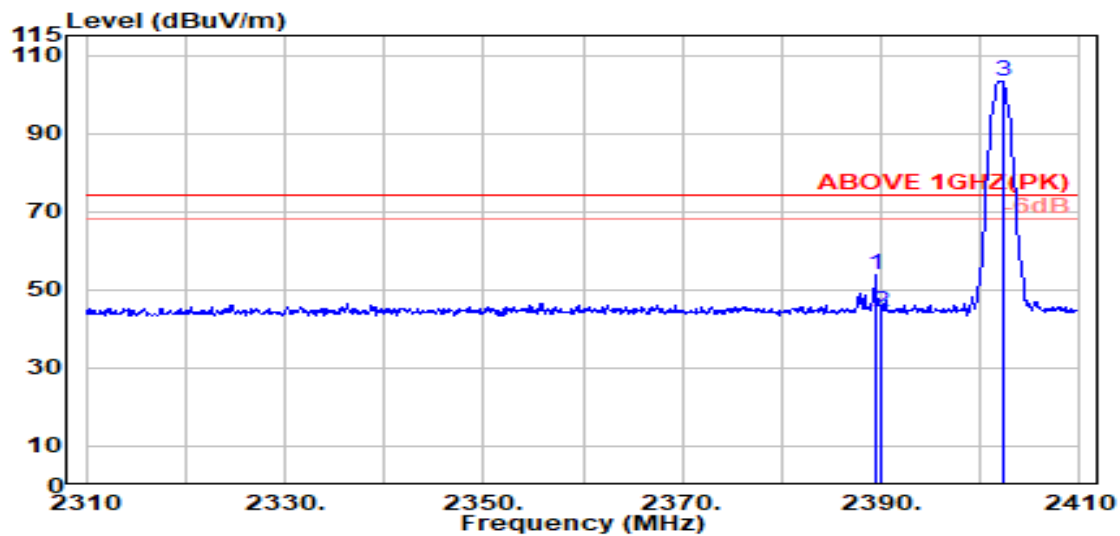
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2376.400	28.20	5.68	39.92	42.37	36.33	54.00	17.67	Average
2390.000	28.20	5.70	39.92	41.60	35.59	54.00	18.41	Average
@ 2401.900	28.20	5.72	39.92	106.95	100.95	---	---	Average

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

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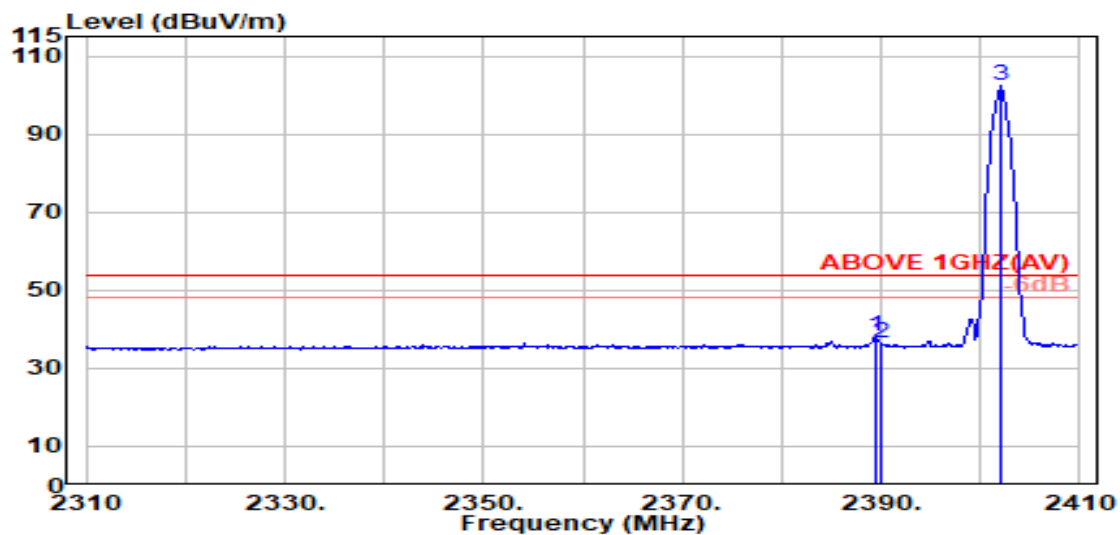
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Mode	8-DPSK	Frequency	TX 2402MHz
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Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.400	28.20	5.70	39.92	59.63	53.61	74.00	20.39	Peak
2390.000	28.20	5.70	39.92	50.22	44.20	74.00	29.80	Peak
@ 2402.200	28.20	5.72	39.92	109.36	103.37	---	---	Peak



Antenna at Vertical 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
2389.500	28.20	5.70	39.92	44.19	38.17	54.00	15.83	Average
2390.000	28.20	5.70	39.92	42.67	36.65	54.00	17.35	Average
@ 2402.100	28.20	5.72	39.92	108.25	102.26	---	---	Average

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

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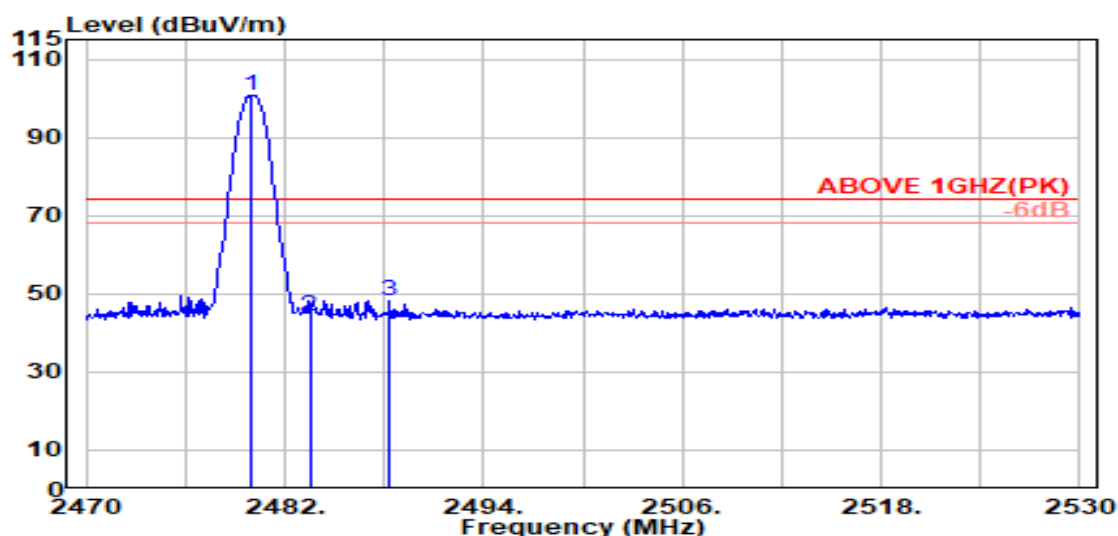
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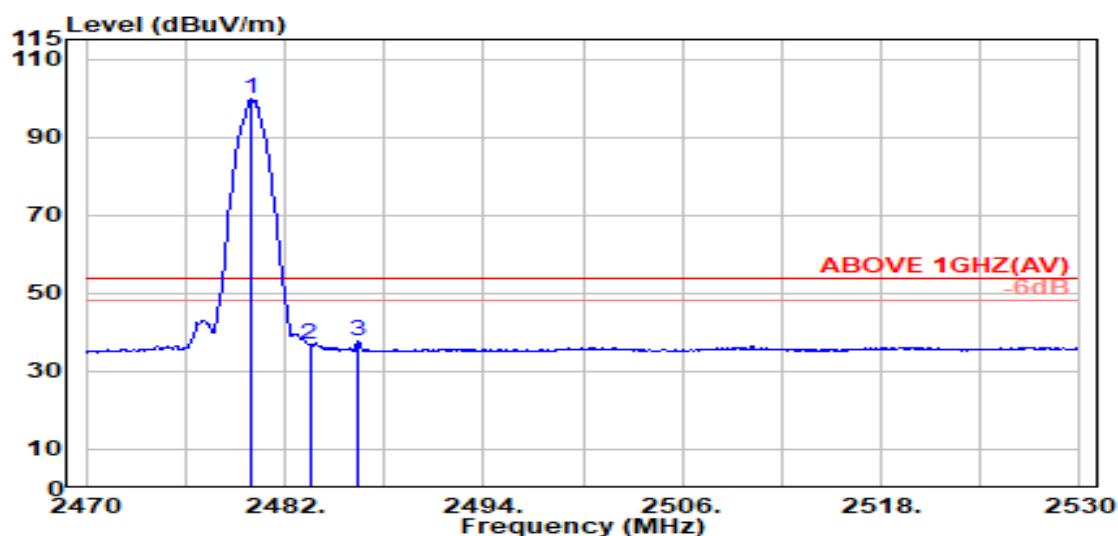
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Mode	8-DPSK	Frequency	TX 2480MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2479.927	28.42	5.82	39.92	106.26	100.58	---	---	Peak
2483.500	28.43	5.83	39.92	49.96	44.30	74.00	29.70	Peak
2488.273	28.45	5.83	39.92	53.99	48.36	74.00	25.64	Peak

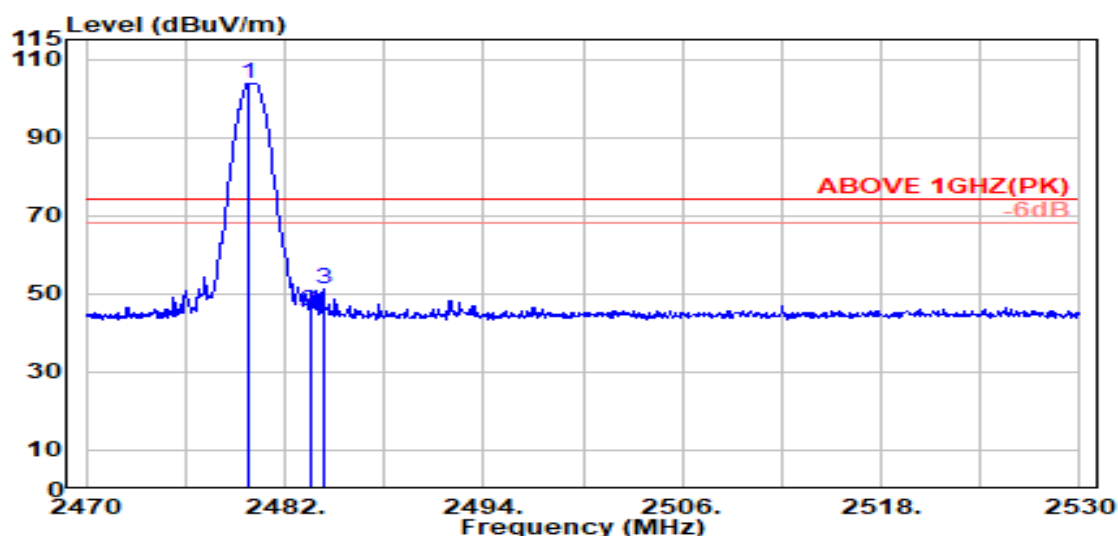


Antenna at Horizontal Polarization

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
@ 2480.036	28.42	5.82	39.92	105.32	99.64	---	---	Average
2483.500	28.43	5.83	39.92	42.44	36.79	54.00	17.21	Average
2486.473	28.45	5.83	39.92	43.20	37.56	54.00	16.44	Average

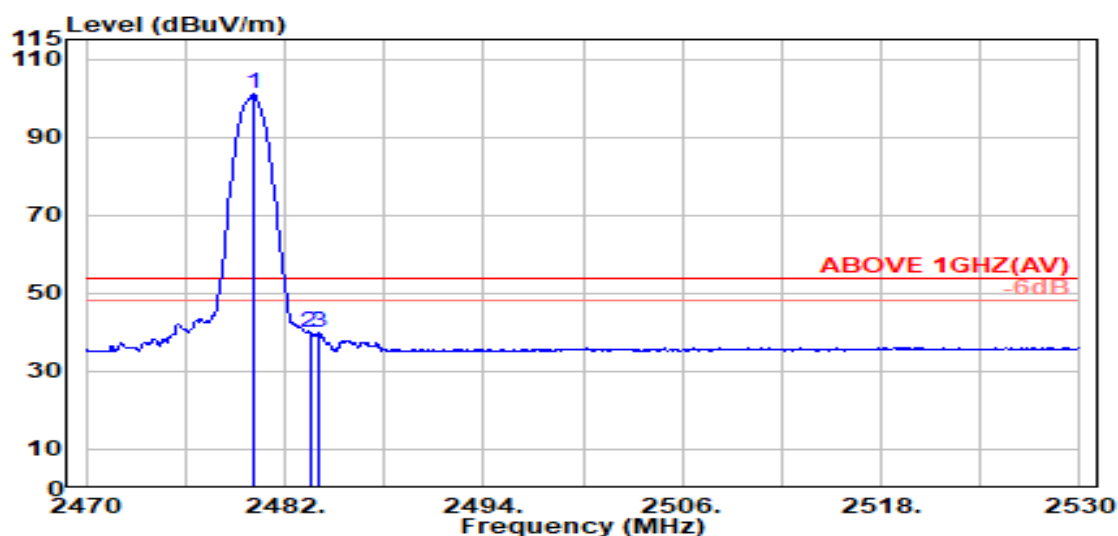
Remark: The “@” means fundamental frequency, it is ignored in this section.

Mode	8-DPSK	Frequency	TX 2480MHz
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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
@ 2479.873	28.42	5.82	39.92	109.60	103.93	---	---	Peak
2483.500	28.43	5.83	39.92	51.44	45.78	74.00	28.22	Peak
2484.291	28.44	5.83	39.92	57.04	51.39	74.00	22.61	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
@ 2480.091	28.42	5.82	39.92	106.75	101.07	---	---	Average
2483.500	28.43	5.83	39.92	45.46	39.81	54.00	14.19	Average
2484.073	28.44	5.83	39.92	45.65	40.00	54.00	14.00	Average

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

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

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)	Reading level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4804.000	32.72	8.02	39.18	39.88	41.44	54.00	12.56	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	32.72	8.02	39.18	39.58	41.14	54.00	12.86	Peak

Mode	8-DPSK	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	33.03	8.08	39.15	40.78	42.74	54.00	11.26	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	33.03	8.08	39.15	40.49	42.45	54.00	11.55	Peak

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)	Reading level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4960.000	33.22	8.13	39.12	40.97	43.20	54.00	10.80	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	33.22	8.13	39.12	41.06	43.30	54.00	10.70	Peak

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	2025/10/13	Temp./Hum.	24°C/59%
Cable Loss	2.0dB	Tested By	Harry Huang
Test Voltage	AC 120V 60Hz (Via AC Adapter)		

A.3.1 20dB Bandwidth Result

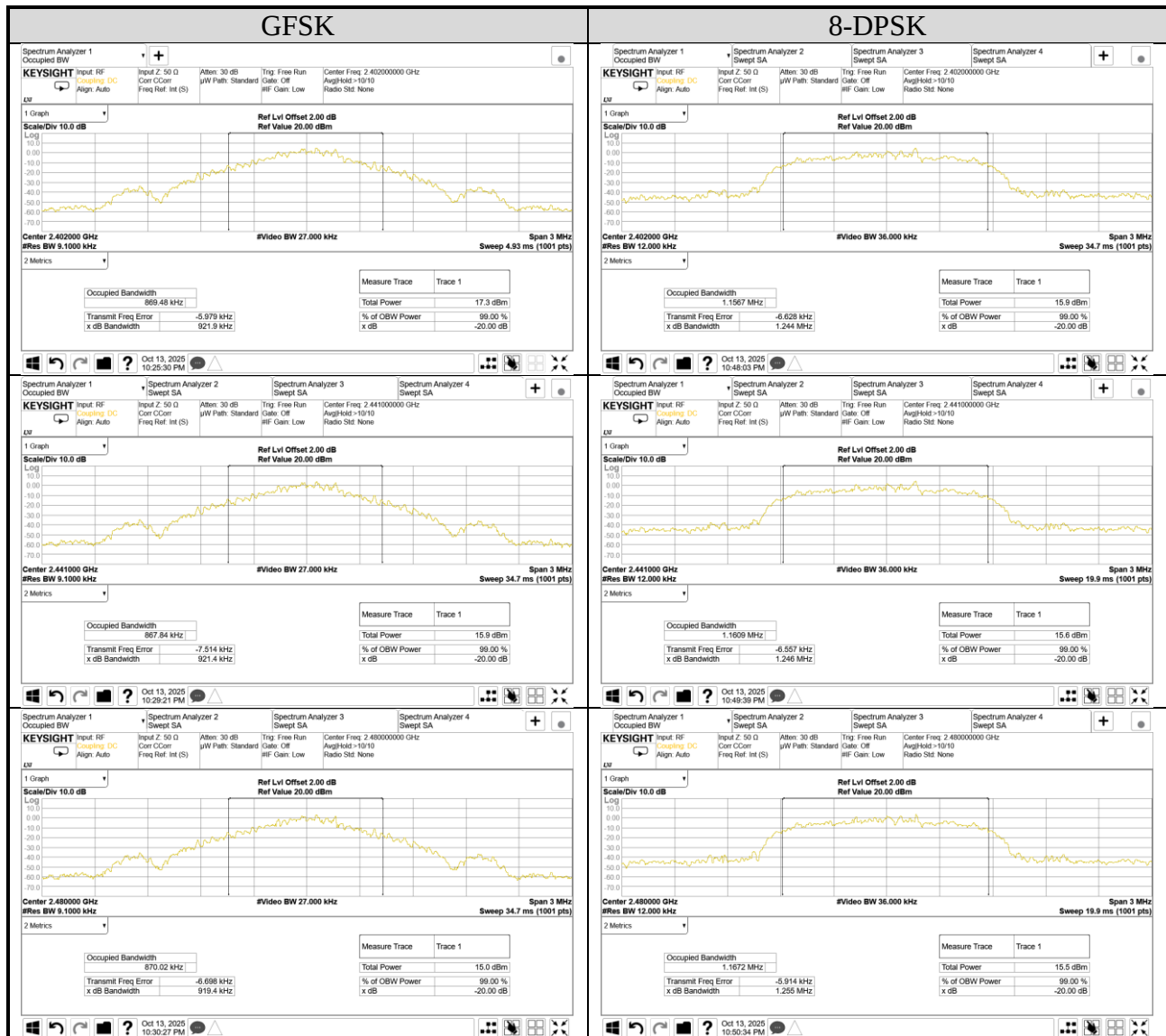
Mode	Centre Frequency (MHz)	20dB Bandwidth (MHz)	99%Occupied Bandwidth (MHz) (Reference only)	2/3(20dB Bandwidth)
GFSK	2402	0.9219	0.86948	0.615
	2441	0.9214	0.86784	0.614
	2480	0.9194	0.87002	0.613
8-DPSK	2402	1.244	1.1567	0.829
	2441	1.246	1.1609	0.831
	2480	1.255	1.1672	0.837

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

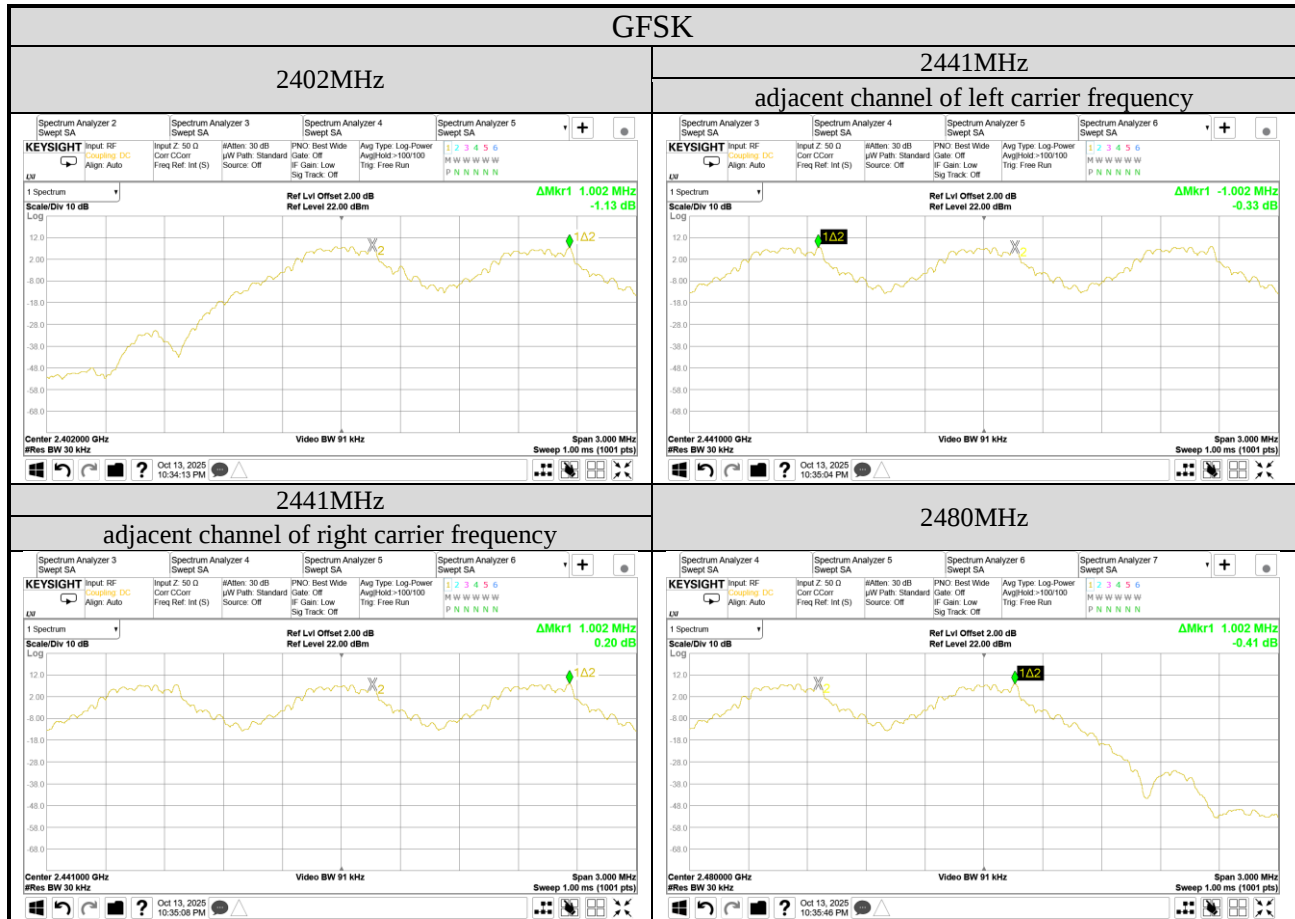


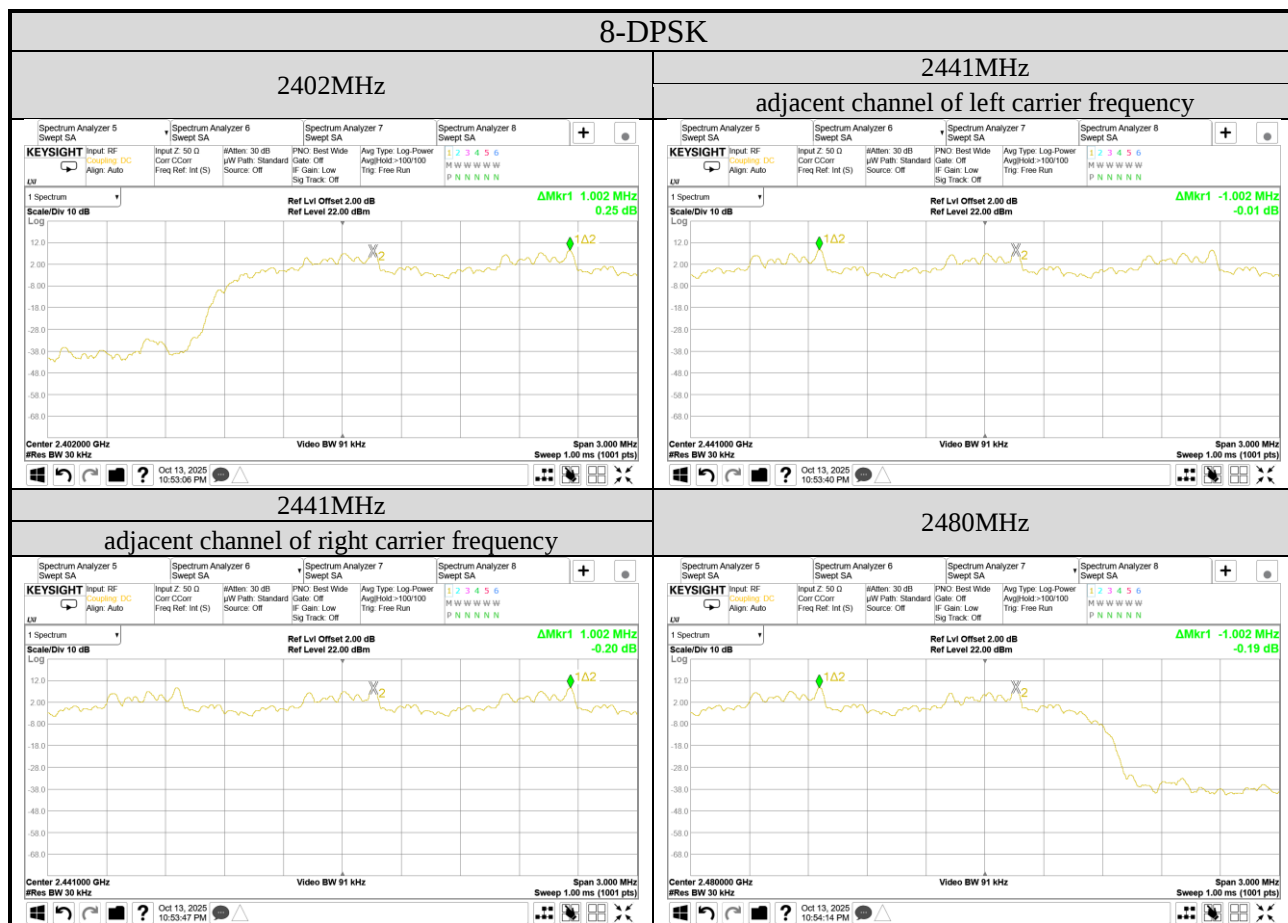
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A.4 CARRIER FREQUENCY SEPARATION

Test Date	2025/10/13	Temp./Hum.	24°C/59%
Cable Loss	2.0dB	Tested By	Harry Huang
Test Voltage	AC 120V 60Hz (Via AC Adapter)		





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A.5 TIME OF OCCUPANCY

Test Date	2025/10/13	Temp./Hum.	24°C/59%
Cable Loss	2.0dB	Tested By	Harry Huang
Test Voltage	AC 120V 60Hz (Via AC Adapter)		

A.5.1 Time of Occupancy

GFSK Mode

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:

$$79 \text{ channels} * 0.4 \text{ seconds} = 31.6 \text{ seconds}$$

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:

$$79 \text{ channels} * 0.4 \text{ seconds} = 31.6 \text{ seconds}$$

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	2480	DH1	10	0.375	118.500	<400
		DH3	5	1.630	257.540	<400
		DH5	3	2.880	273.024	<400

Observation Period:

$$79 \text{ channels} * 0.4 \text{ seconds} = 31.6 \text{ seconds}$$

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)

8-DPSK Mode

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	1.640	259.120	<400
		3DH5	3	2.880	273.024	<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* 1.640 ms= 259.120 ms (<400ms)

3DH5 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)
8-DPSK	2441	3DH1	10	0.380	120.080	<400
		3DH3	5	1.640	259.120	<400
		3DH5	3	2.880	273.024	<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* 1.640 ms= 259.120 ms (<400ms)

3DH5 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)
8-DPSK	2480	3DH1	10	0.380	120.080	<400
		3DH3	5	1.640	259.120	<400
		3DH5	3	2.880	273.024	<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* 1.640 ms= 259.120 ms (<400ms)

3DH5 Mode

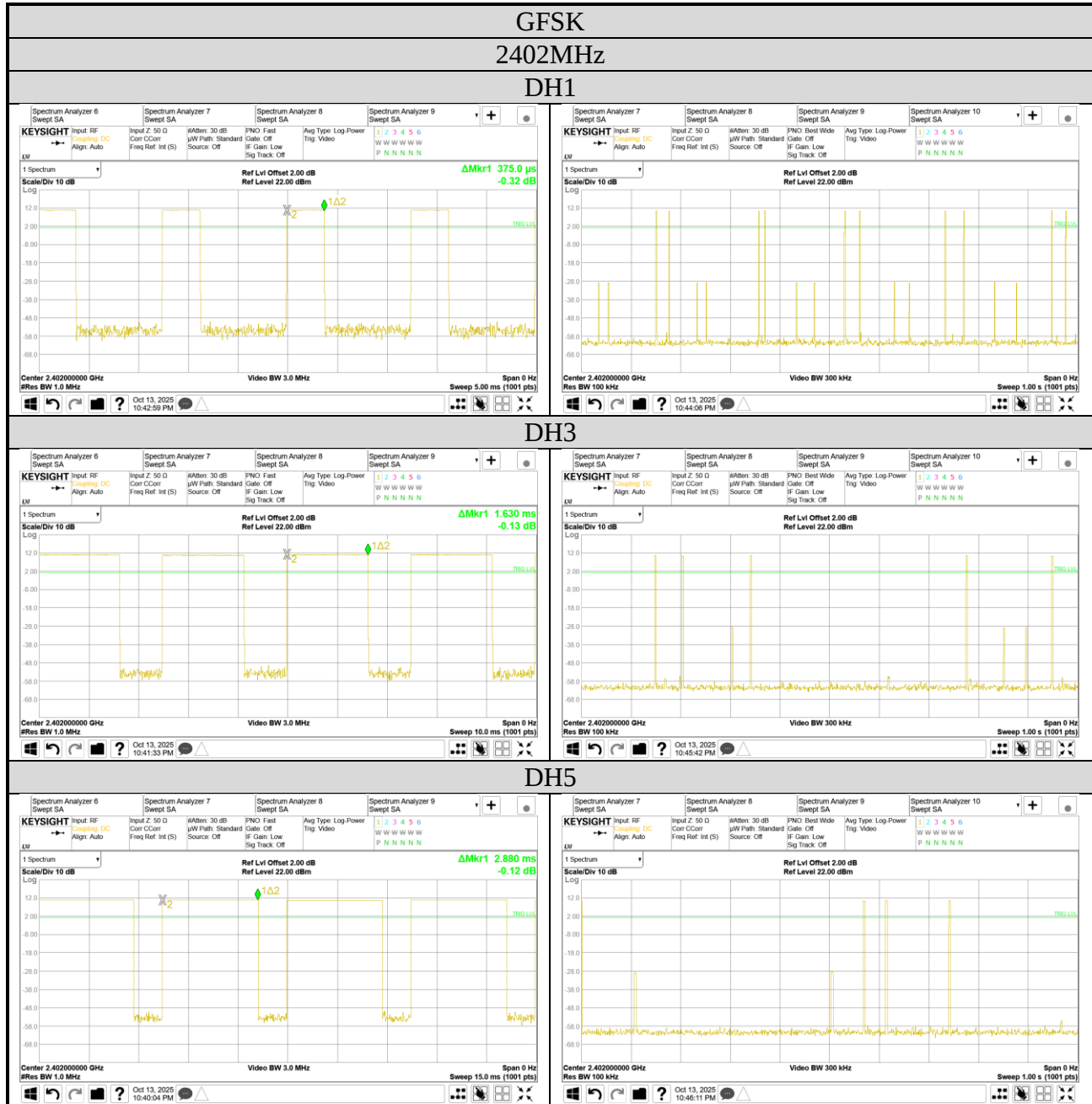
For each second of 3 transmission appearance,the longest time of occupancy is

3 transmission* 31.6 seconds* 2.880 ms= 273.024 ms (<400ms)

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● Measurement Plots

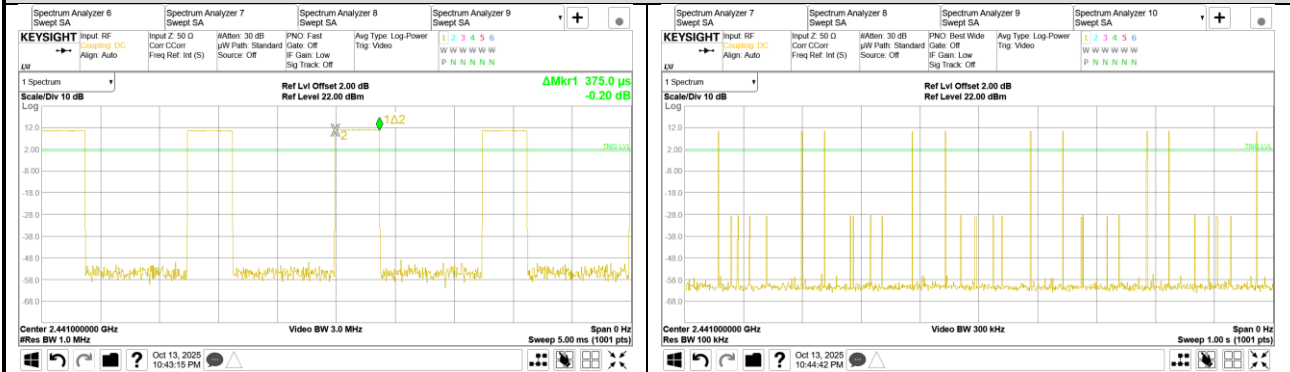


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GFSK 2441MHz

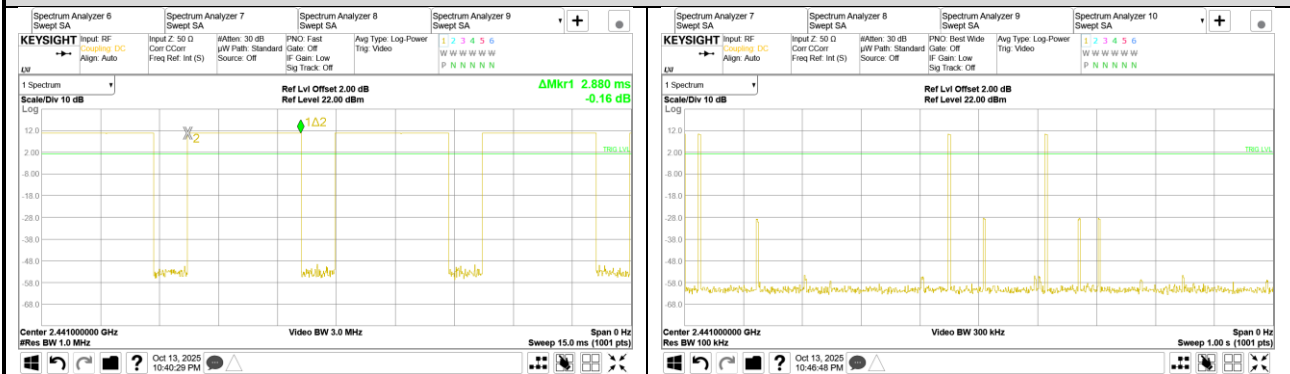
DH1



DH3

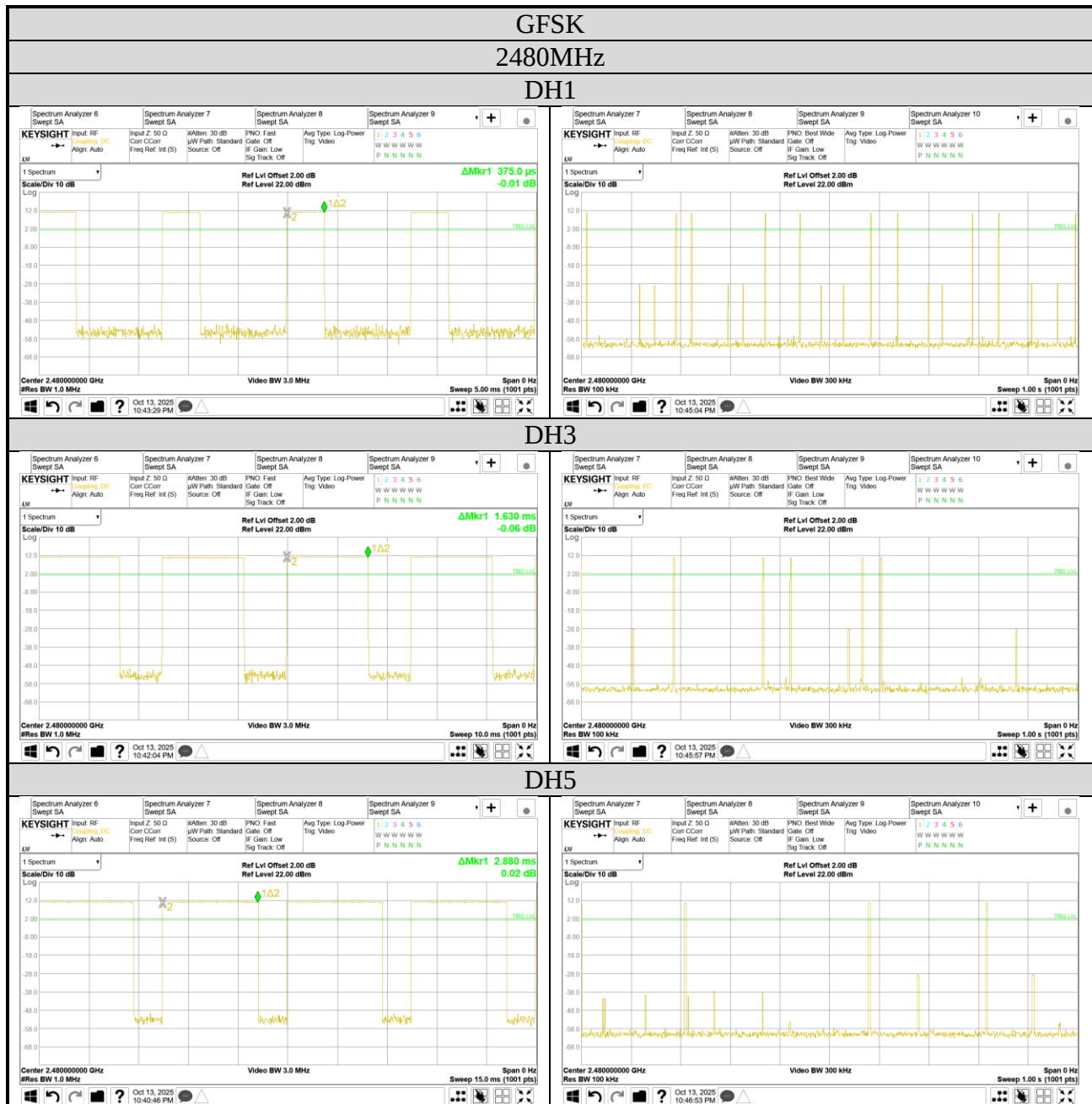


DH5



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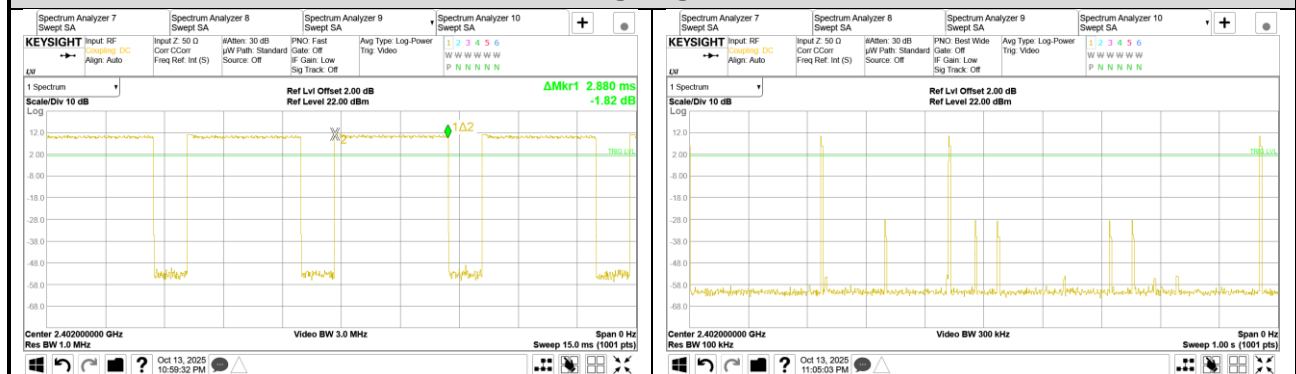
8-DPSK 2402MHz 3DH1



3DH3

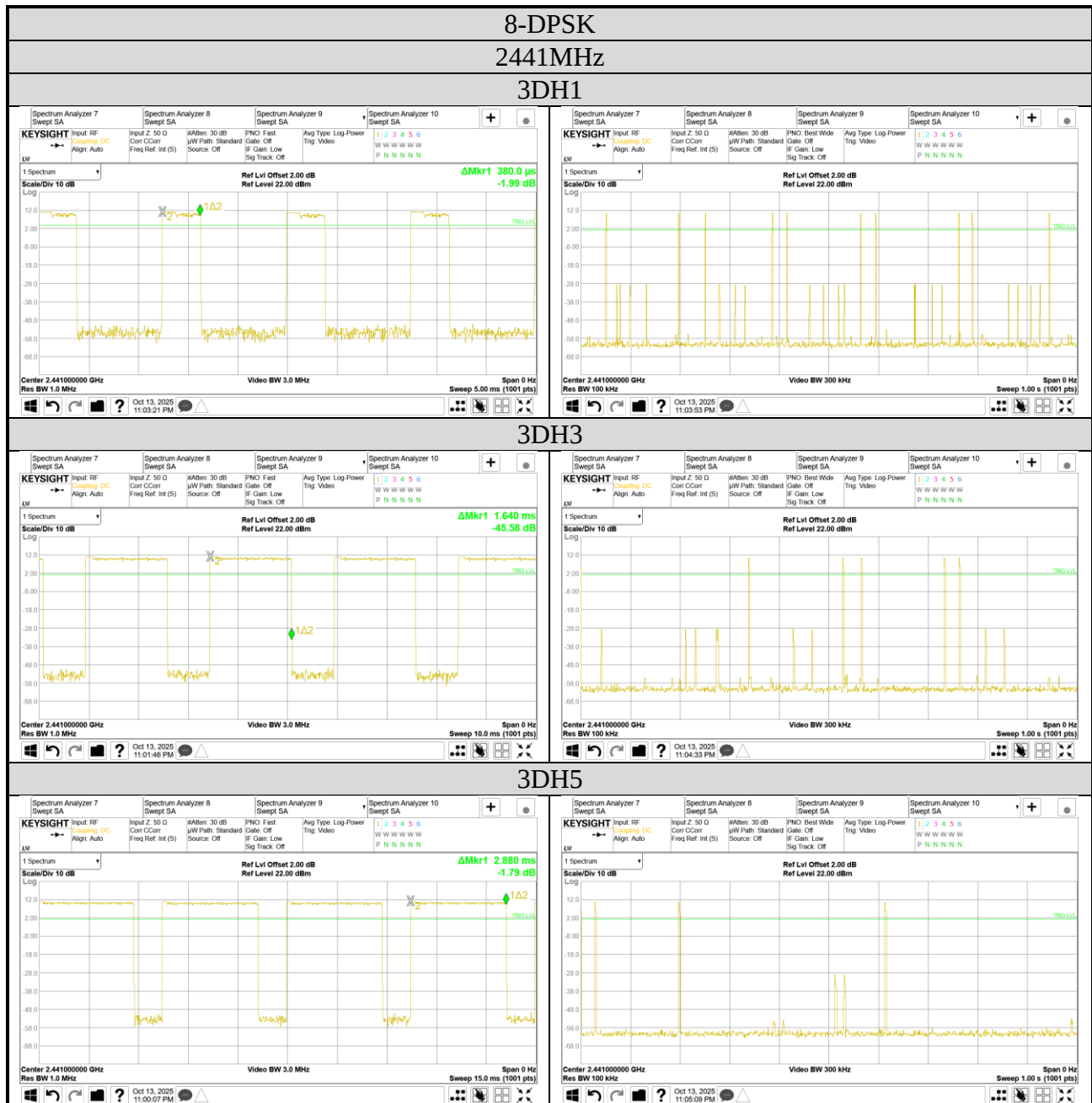


3DH5



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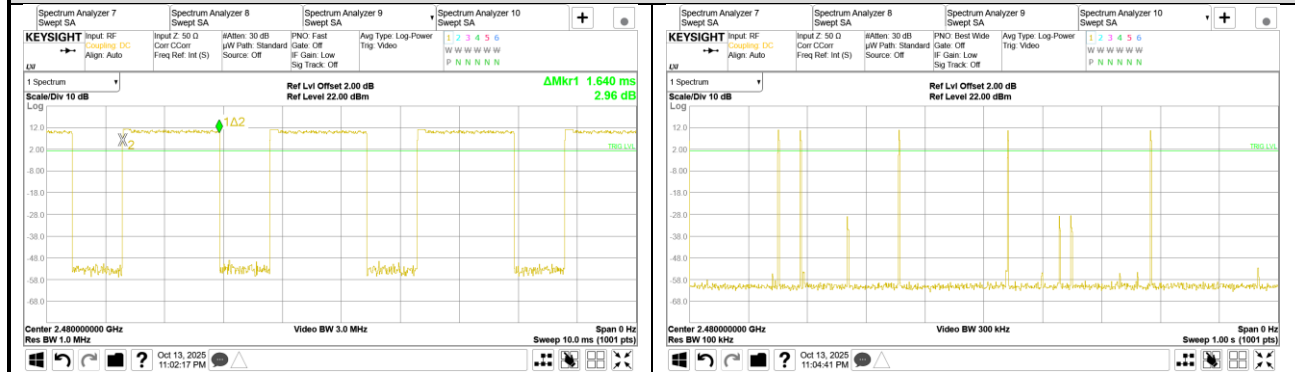
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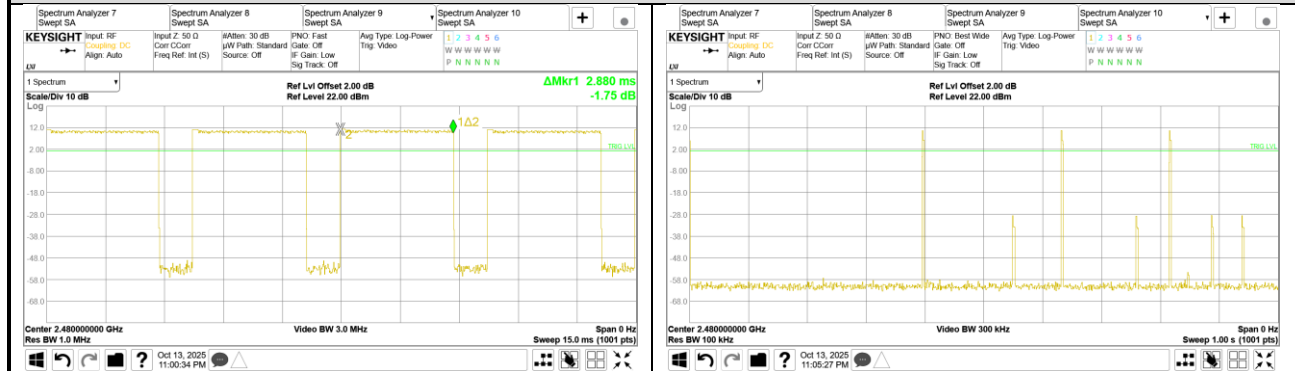
8-DPSK 2480MHz 3DH1



3DH3



3DH5

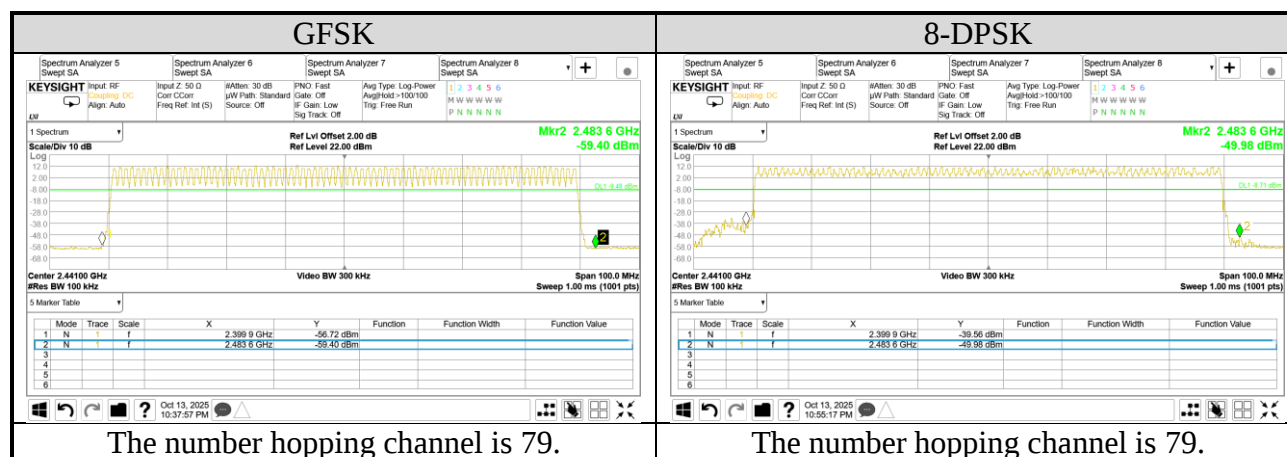


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A.6 NUMBER OF HOPPING CHANNELS

Test Date	2025/10/13	Temp./Hum.	24°C/59%
Cable Loss	2.0dB	Tested By	Harry Huang
Test Voltage	AC 120V 60Hz (Via AC Adapter)		



A.7 MAXIMUM PEAK OUTPUT POWER

Test Date	2025/10/13	Temp./Hum.	24°C/59%
Cable Loss	2.0dB	Tested By	Harry Huang
Test Voltage	AC 120V 60Hz (Via AC Adapter)		

A.7.1 Maximum Peak Output Power

Modulation Type	Centre Frequency (MHz)	Maximum Peak Output Power		AUX Antenna (dBi)	E.I.R.P		Limit
		(dBm)	W		dBm	W	
GFSK	2402	11.48	0.014	2.0	13.48	0.022	<30dBm (Maximum Peak Output Power) <36dBm (E.I.R.P)
	2441	10.95	0.012	2.0	12.95	0.020	
	2480	11.09	0.013	2.0	13.09	0.020	
8DPSK	2402	11.45	0.014	2.0	13.45	0.022	<30dBm (Maximum Peak Output Power) <36dBm (E.I.R.P)
	2441	11.19	0.013	2.0	13.19	0.021	
	2480	11.36	0.014	2.0	13.36	0.022	

A.7.2 Average Output Power (Reporting only)

Modulation Type	Centre Frequency (MHz)	Average Output Power (dBm)	Duty cycle factor (dB) 10log (1/x)	Maximum Average Output Power		Limit
				(dBm)	(W)	
GFSK	2402	9.72	1.135	10.86	0.012	<30dBm (1W)
	2441	9.45	1.135	10.59	0.011	
	2480	9.37	1.135	10.51	0.011	
8-DPSK	2402	7.15	1.135	8.29	0.007	
	2441	7.07	1.135	8.21	0.007	
	2480	6.79	1.135	7.93	0.006	

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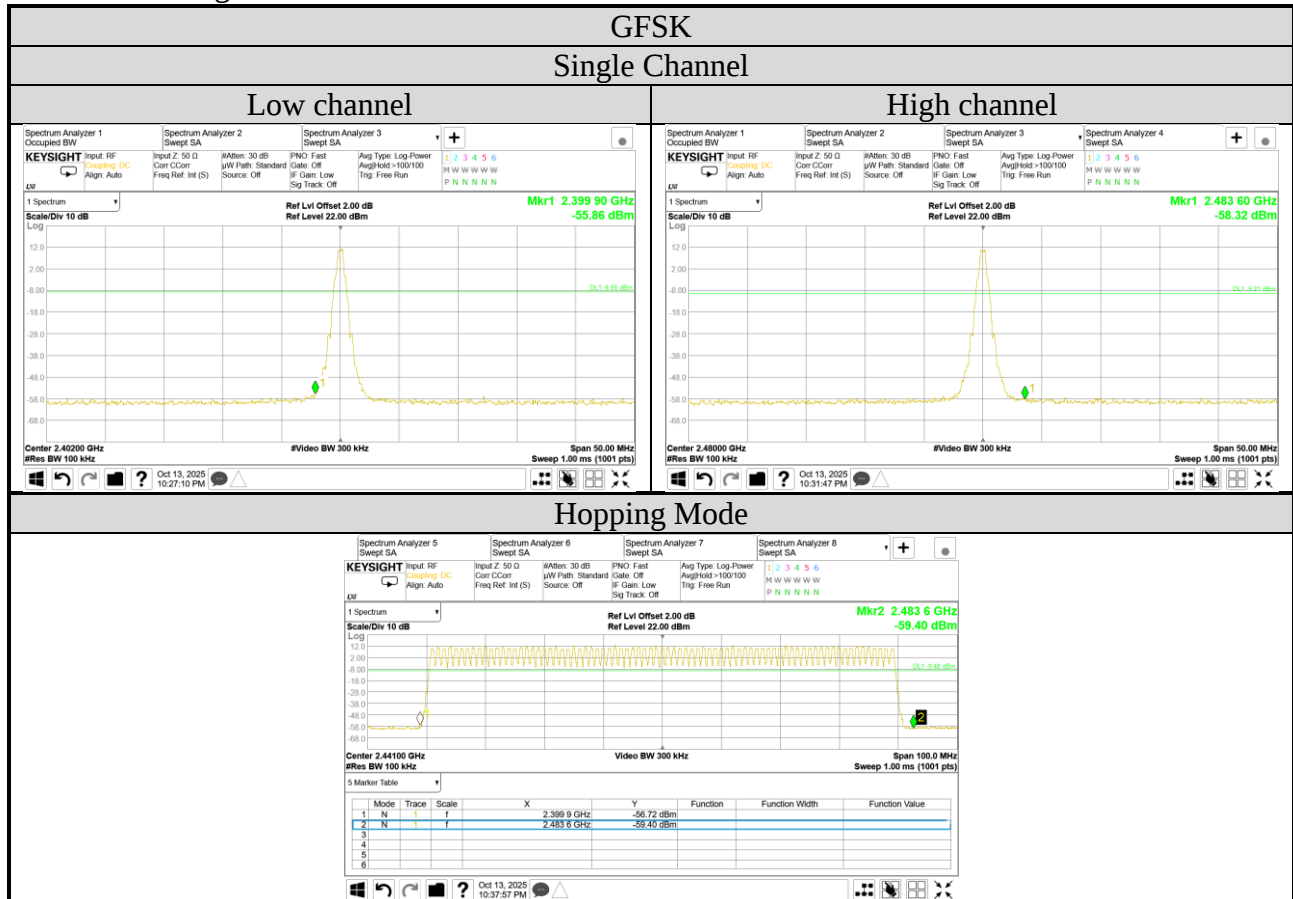
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A.8 EMISSION LIMITATIONS MEASUREMENT

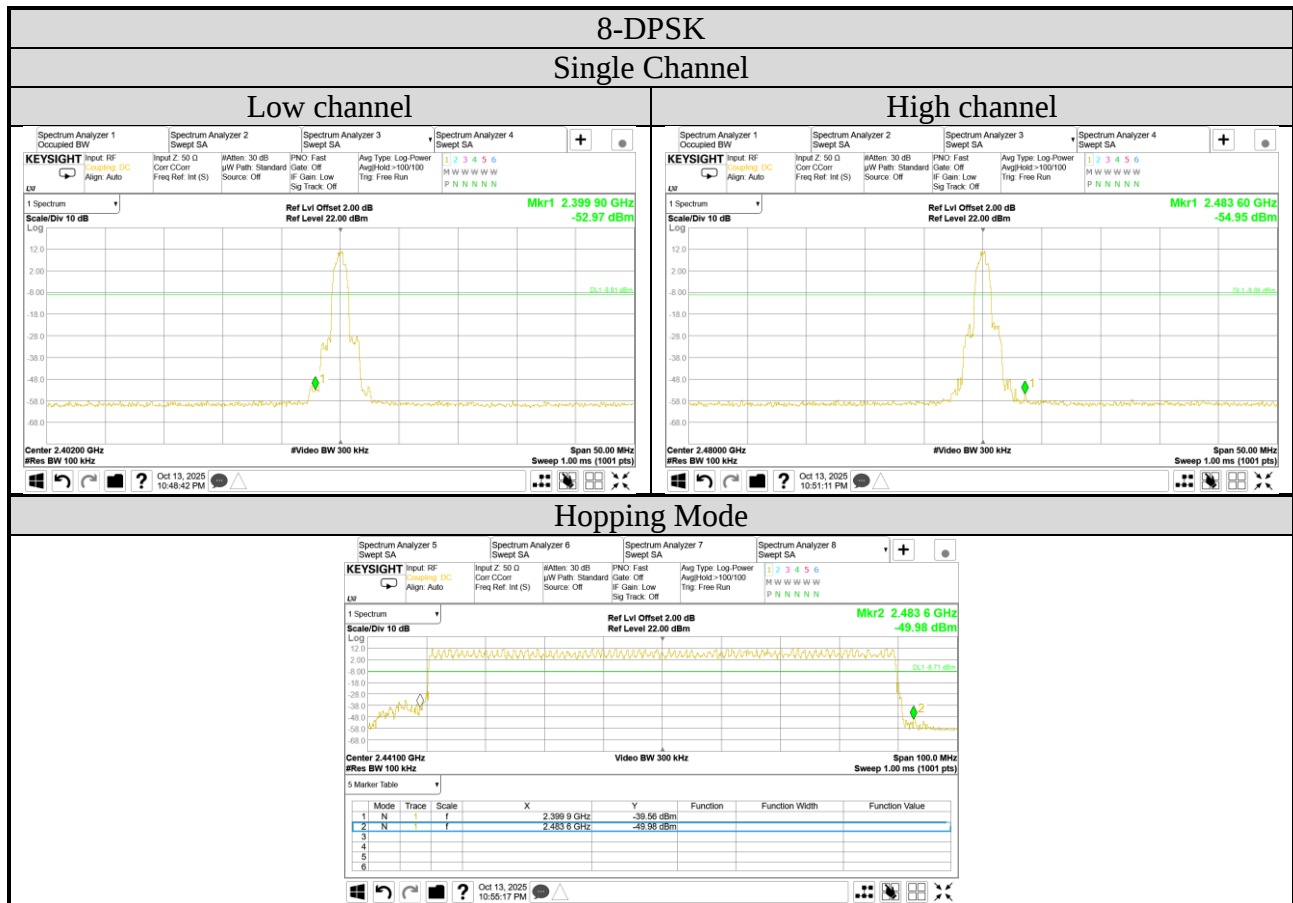
Test Date	2025/10/13	Temp./Hum.	24°C/59%
Cable Loss	2.0dB	Tested By	Harry Huang
Test Voltage	AC 120V 60Hz (Via AC Adapter)		

A.8.1 Band Edge



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A.8.2 Spurious Emission



Note: All results have been included cable loss.